

**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	HV	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	LV	HV Cable	Sewer
<b>KEY</b>	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Water	Copper Blue Fibre	AC Stanchion	
Proposed Fibre & Civils Elements are shown in RED		Existing Fibre Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Cable Pull	Screen Green		
Proposed Copper Elements are shown in BLUE		Existing Copper Cable										
Proposed Screening Elements are shown in MAGENTA		Existing Screen Cable										
All Recoveries are shown in GREEN												

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	14/07/2008	1st Issue	MT	DH	SW
A	18/03/2009	2nd Issue	MT	AEL	SW
B	14/12/2010	1st Issue - Stage 2 Design	DA	JW	CT

Contractor(s)

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Status: **Design**

Scale(s): NTS

ELR & Mileage: VWW, AJB & BML1

Designed	Michal Taraj	Sign.	Date	14/07/2008
Drawn	Michal Taraj	Sign.	Date	14/07/2008
Checked	Dean Halling	Sign.	Date	14/07/2008
Approved	Steve Witt	Sign.	Date	14/07/2008
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Chertsey Station (2110) to Brooklands (2407)			

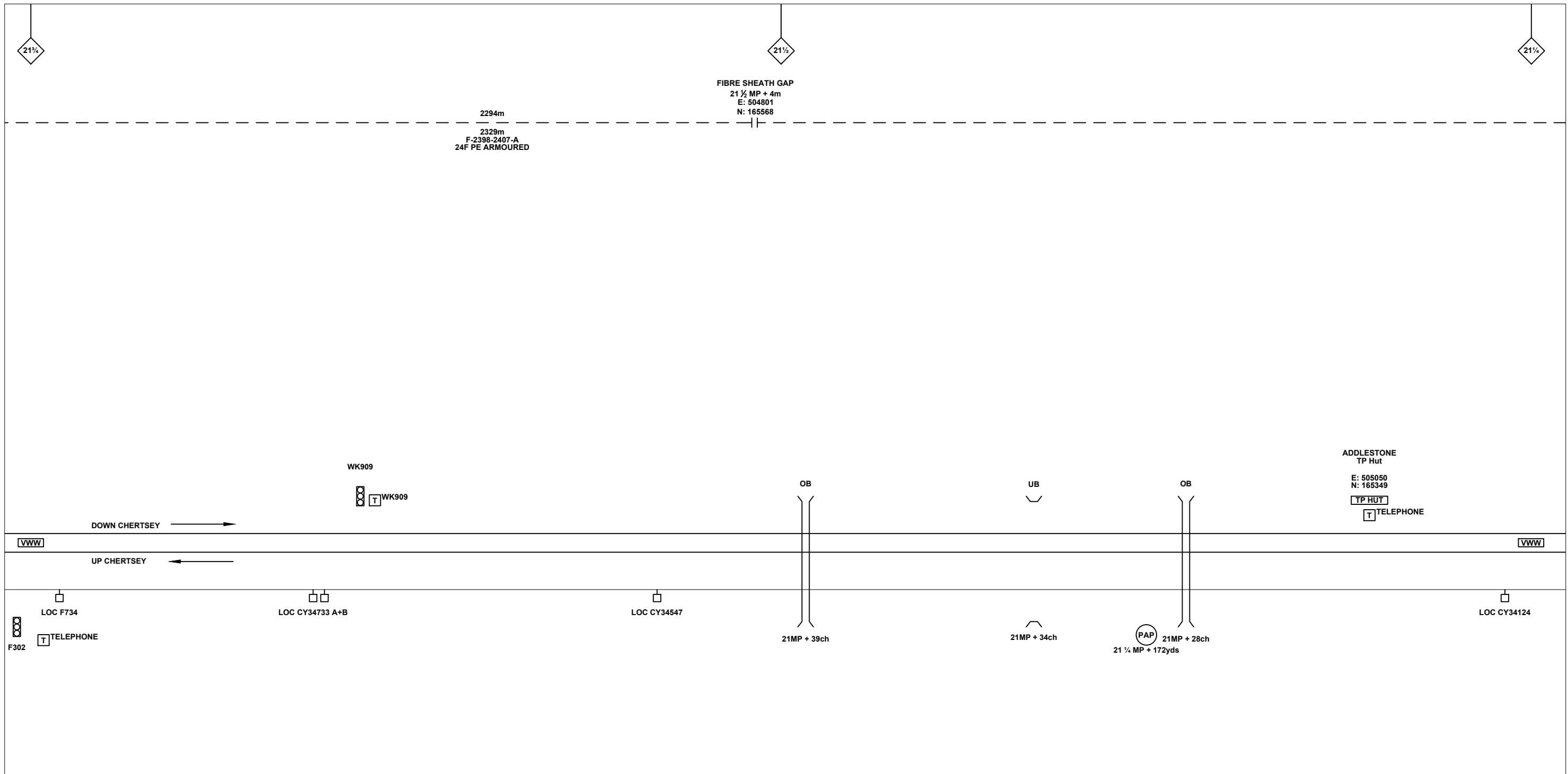
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Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 1 of 8

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	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	LV Cable
Proposed Fibre & Civils Elements are shown in RED				FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	Cable Pull
Proposed Copper Elements are shown in BLUE									AC Stanchion	
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										

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A	18/03/2009	2nd Issue	MT	AEL	SW
B	14/12/2010	1st Issue - Stage 2 Design	DA	JW	CT

Contractor(s)

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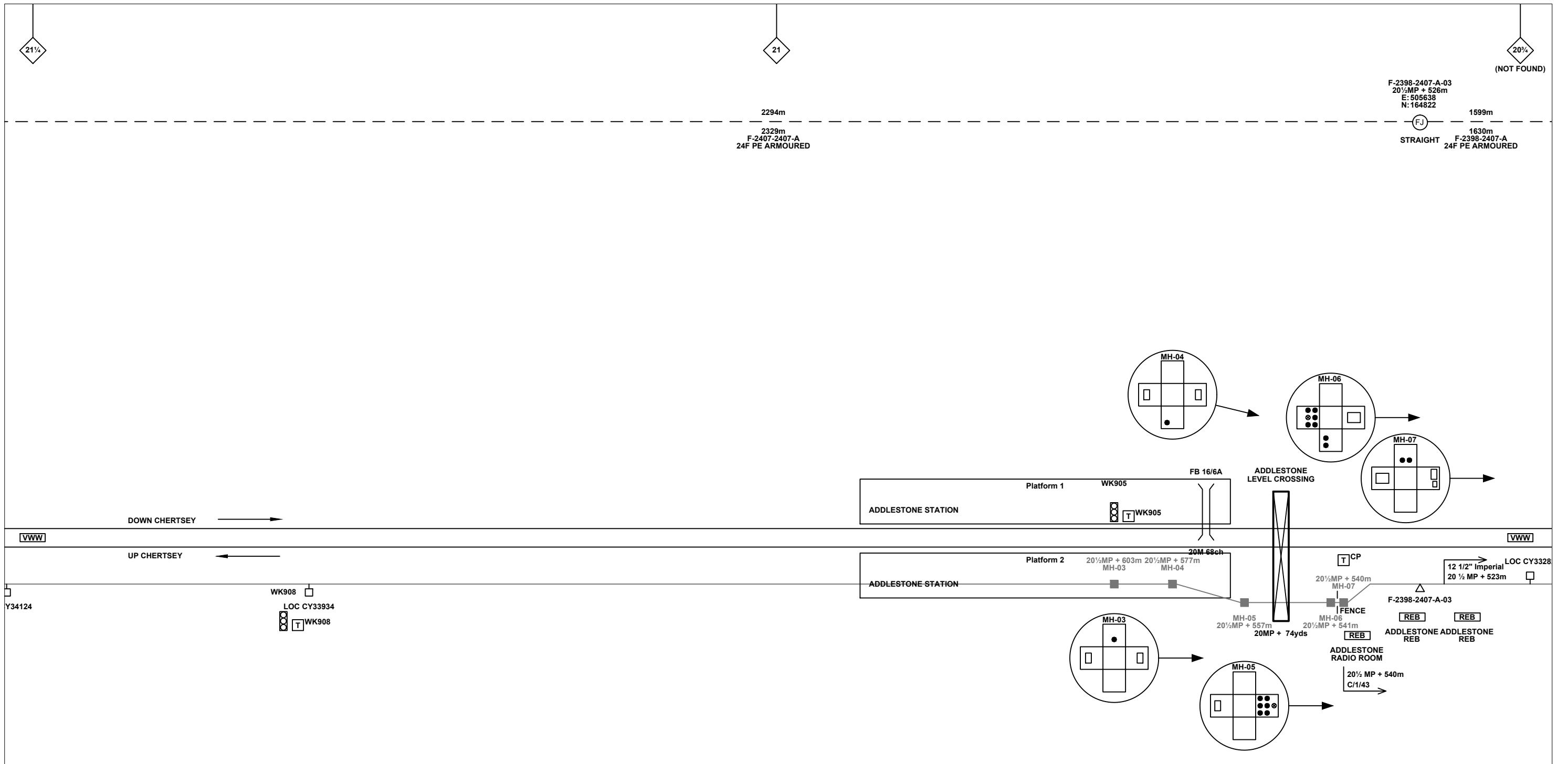
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Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 2 of 8

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	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	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Cable Pull	LV Cable
All Existing Elements are shown in BLACK	F-DIDC-RGAC-A	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	AC Stanchion	Sewer	Water

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Drawing Title: Chertsey Station (2110) to Brooklands (2407)				

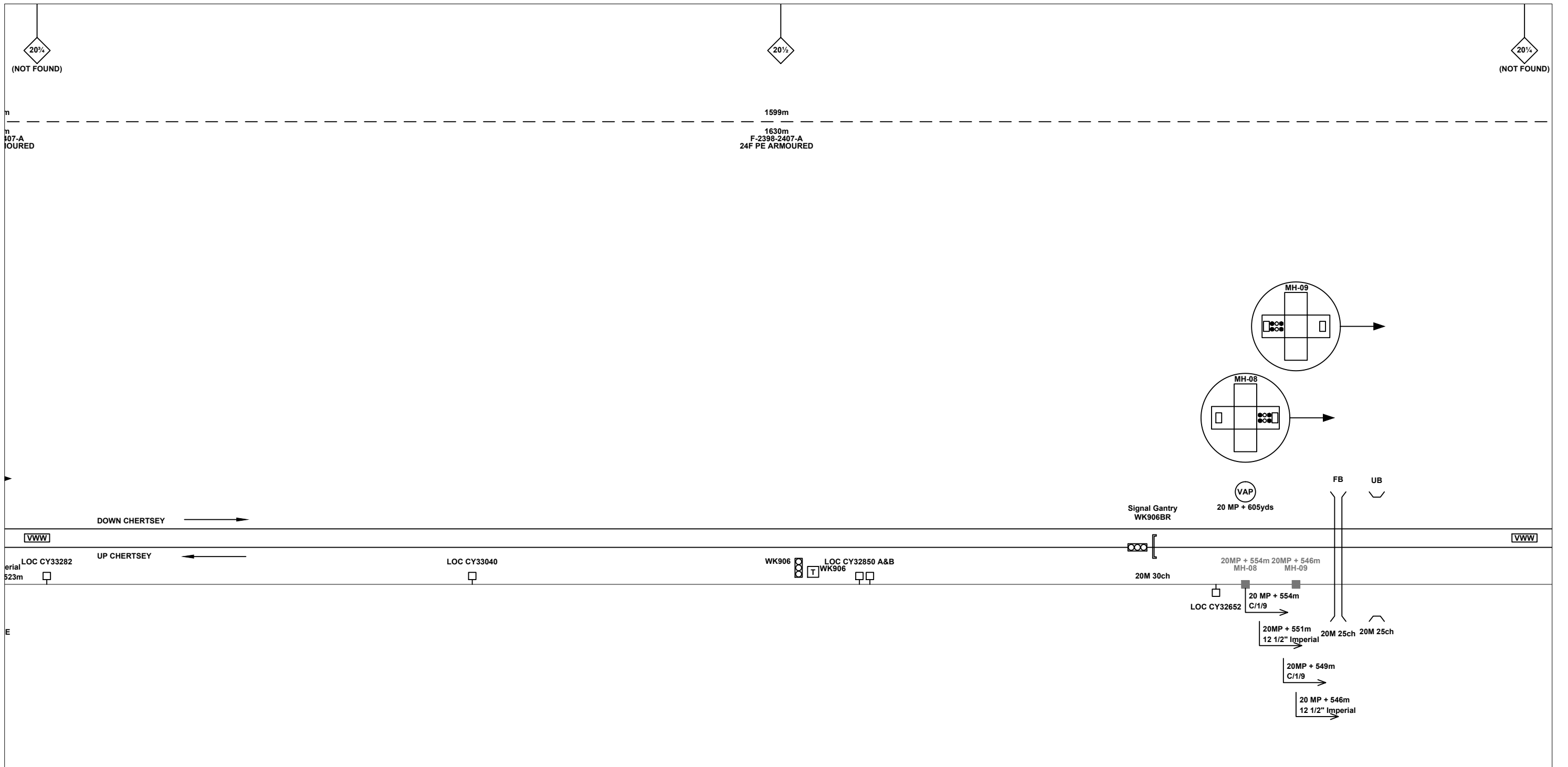
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Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 3 of 8

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
Fibre Joint	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 Cable
Cabinet with Regenerator and Verts	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	LV Cable
<b>KEY</b>		1988m Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	Cable Pull

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

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
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B	14/12/2010	1st Issue - Stage 2 Design	DA	JW	CT

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ELR & Mileage: VWW, AJB & BML1

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Drawing Title	Chertsey Station (2110) to Brooklands (2407)			

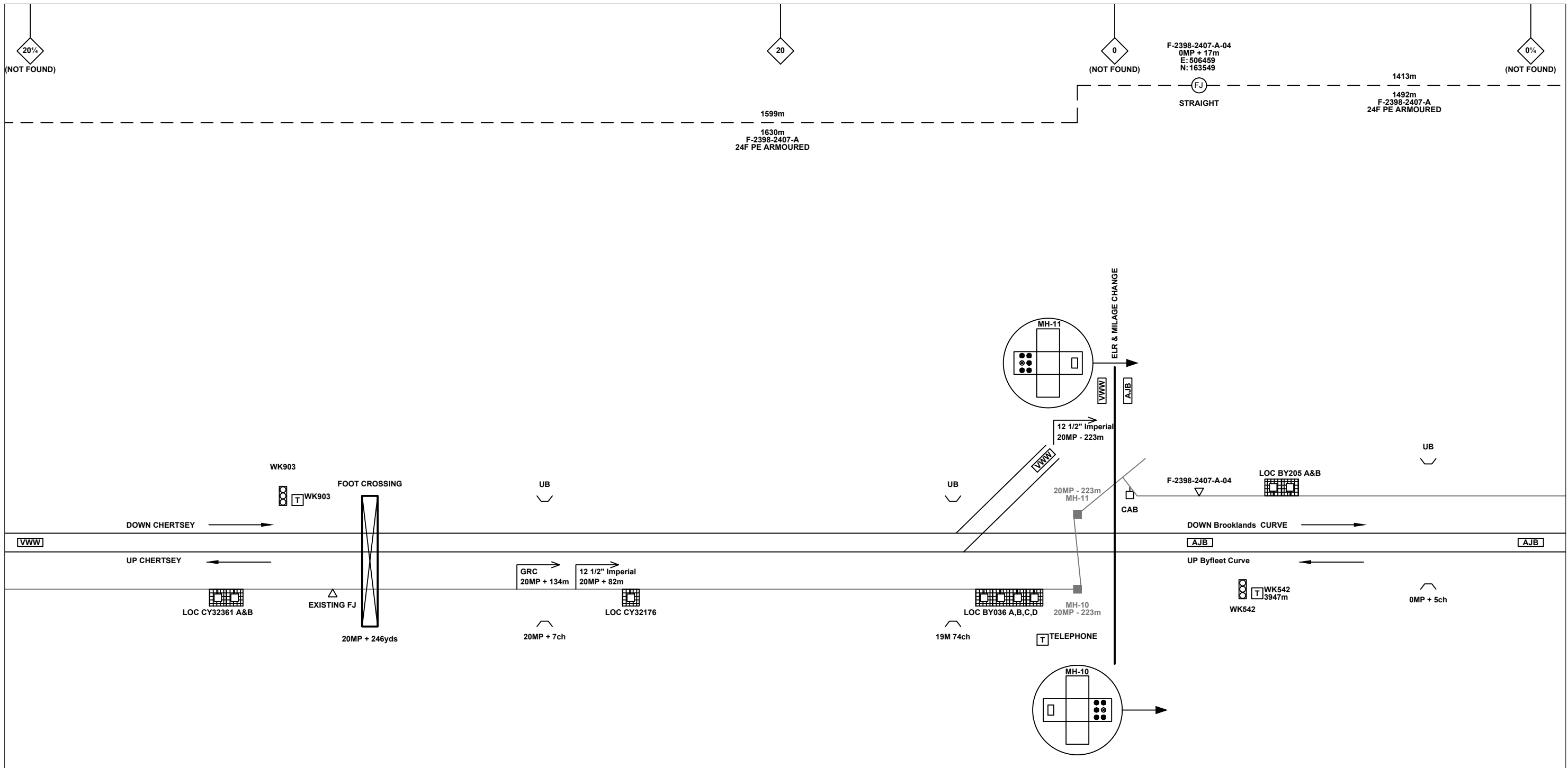
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Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 4 of 8

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	Tunnel	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED				FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks		Earth Farm	Telephone	TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE							Buffer Stop		Cable Pull	AC Stanchion
Proposed Screening Elements are shown in MAGENTA										
All Recoveries are shown in GREEN										

Notes

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ELR & Mileage: VVV, AJB & BML1

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Drawing Title	Chertsey Station (2110) to Brooklands (2407)			

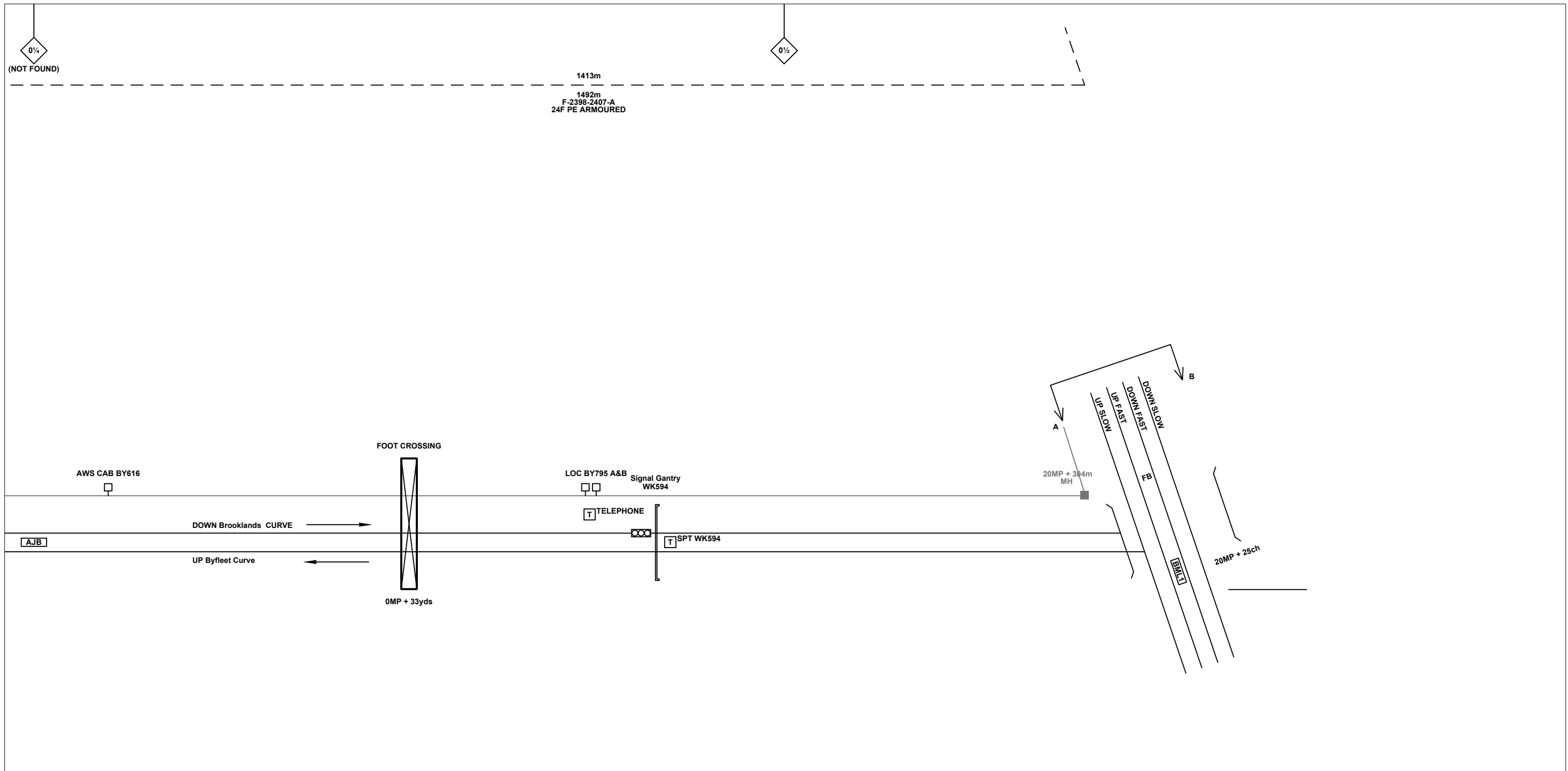
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Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 5 of 8

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	HV	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	LV	HV Cable	Sewer
<b>KEY</b>	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Earth Farm	Buffer Stop	Telephone	Water
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks							

Notes

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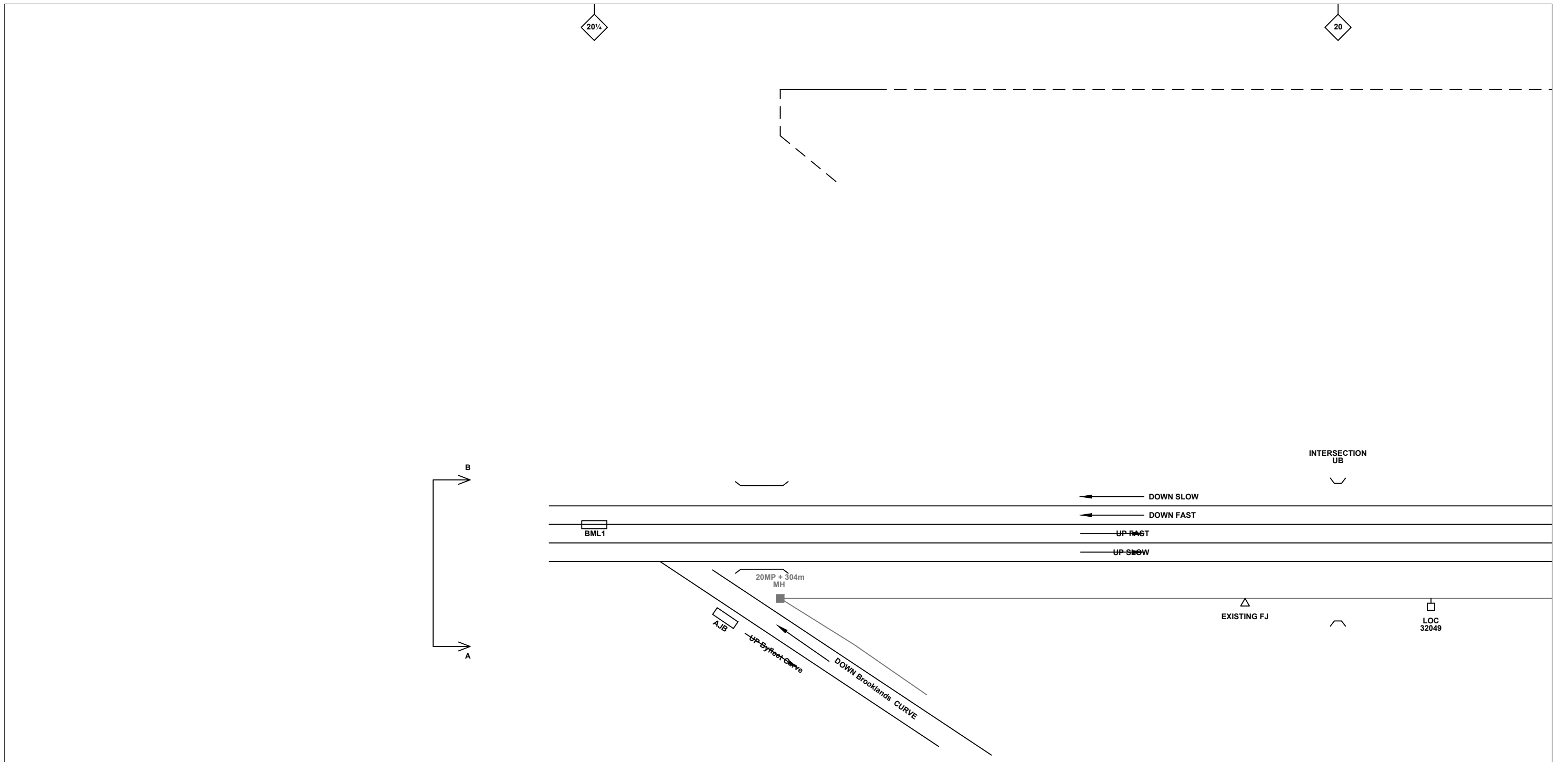
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Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\2110\2407\001

Sheet: 6 of 8

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	HV	LV	SEW	TEL	Water
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Manhole	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable	LV Cable	Sewer	Telecoms	Water	
Screening Conductor Joint with/without Earth	1988m	2034m F-DIDC-RGAC-A	Status - as per Key Below	FTN Access Node	Mid Length Sheath Gap Fibre	Tunnel	Pedestrian Access Point	Platform	Cable Pull	Copper Blue Fibre Red Screen Green	AC Stanchion				
<b>KEY</b>				Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Earth Farm	Buffer Stop	Telephone					

Notes

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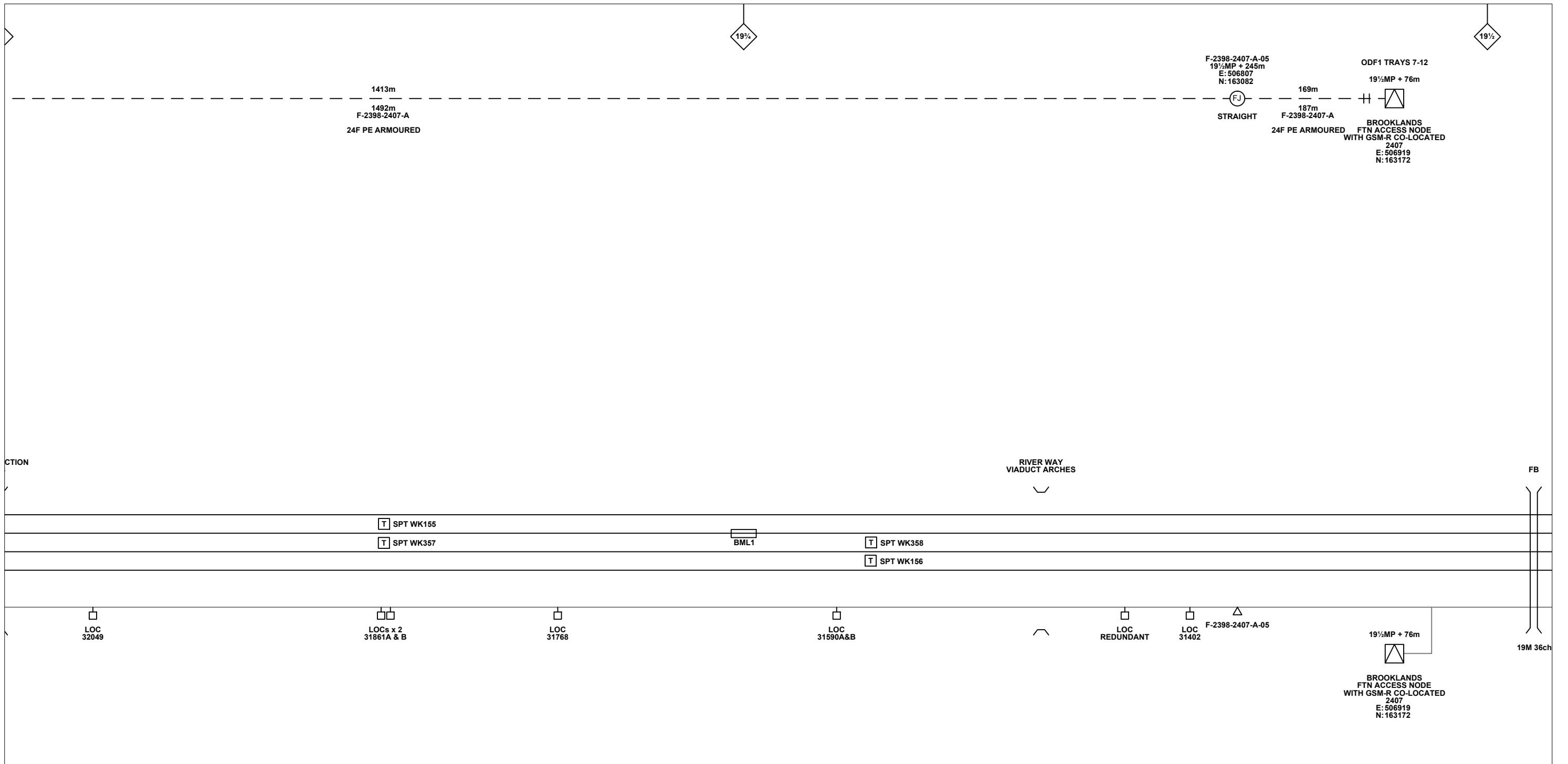
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Sheet: 7 of 8

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	Tunnel	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED		Existing Fibre Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	W — W — Water	Cable Pull
Proposed Copper Elements are shown in BLUE		Existing Copper Cable							AC Stanchion	
Proposed Screening Elements are shown in MAGENTA		Existing Screen Cable								
All Recoveries are shown in GREEN										

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