

Manchester Oxford Road CCTV Renewal

S02002

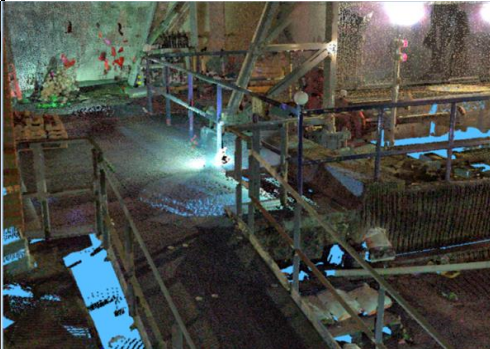
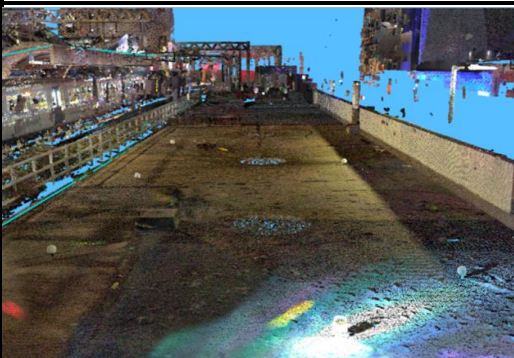
VSS ASSET INSTALL DATASHEET

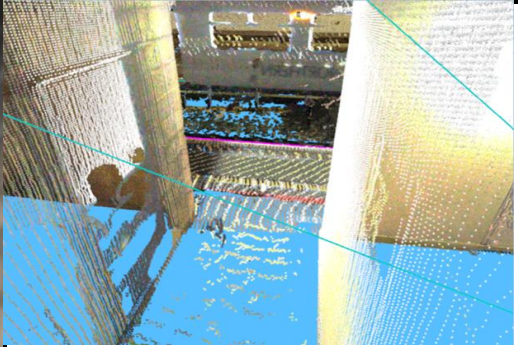
Sheet Number	Title
1	Cover Sheet & Index
2	MNO-CAM-001 / 002
3	MNO-CAM-003 / 004
4	MNO-CAM-005 / 006
5	MNO-CAM-007 / 008
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7	MNO-CAM-0011 / 012
8	MNO-CAM-0013 / 014
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11	MNO-CAM-0019 / 020
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23	MNO-CAM-0043 / 044
24	MNO-CAM-0045 / 046
25	MNO-CAM-0047 / 048
26	MNO-CAM-0049

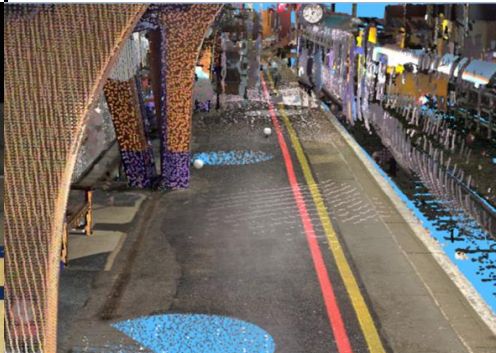
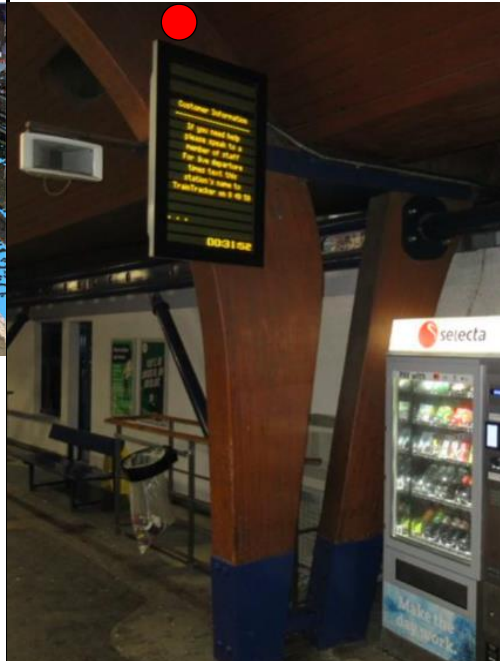
Key For Nodes	
CC1-SWT-001	Main Rack Switch 1
CC1-SWT-002	Main Rack Switch 2
CC2-SWT-001	Paltform 2&3 Node Switch 1

Notes:

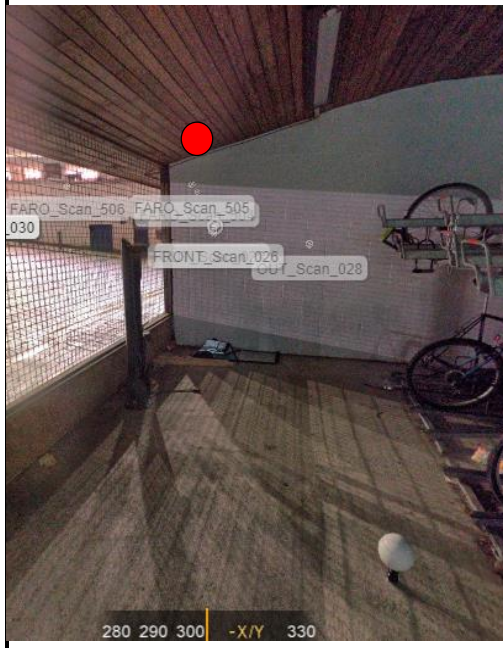
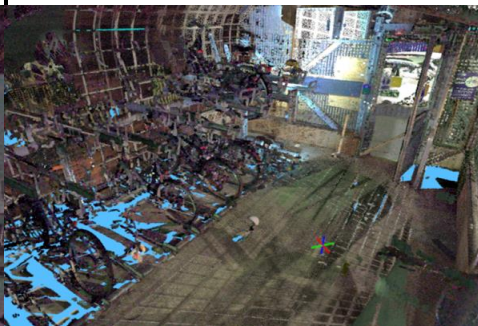
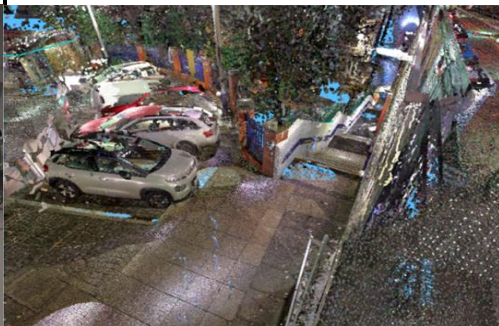
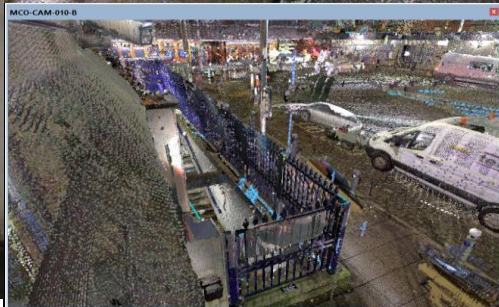
2	13/05/22	ISSUED FOR APPROVAL	CM	RS	NL			
1	05/05/22	DRAFT FIRST ISSUE	CM	RS	NL			
Rev.	Date	Issue Status/ Revisions	Drawn	Chkd.	Appr.			
telent Project Manager: Ash Ghandi			Northern Project Manager: Ian Hutton					
Client								
								
Alliance Partner/Contractor								
			telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888					
Project Title								
Manchester Oxford Road CCTV Renewals								
Drawing Title								
Manchester Oxford Road VSS Datasheet								
Designed C. Merrick / L. Pelling / G. Kilding			Checked R. Singleton					
Approved N. Loveitt			Responsible Engineer R. Burrows					
Date 13/05/2022			Drawn C. Merrick					
Scale N.T.S.			Sheet 1 of 27					
Document Reference: S02002.ENGR.DRGS.627680					Issue Number 2			

Camera Location		Camera view		Camera Location		Camera View		Notes:																																															
																																																							
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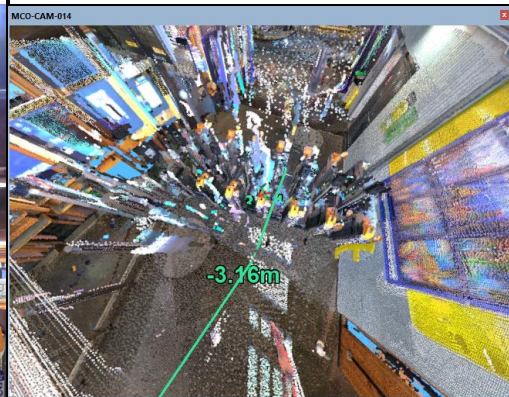
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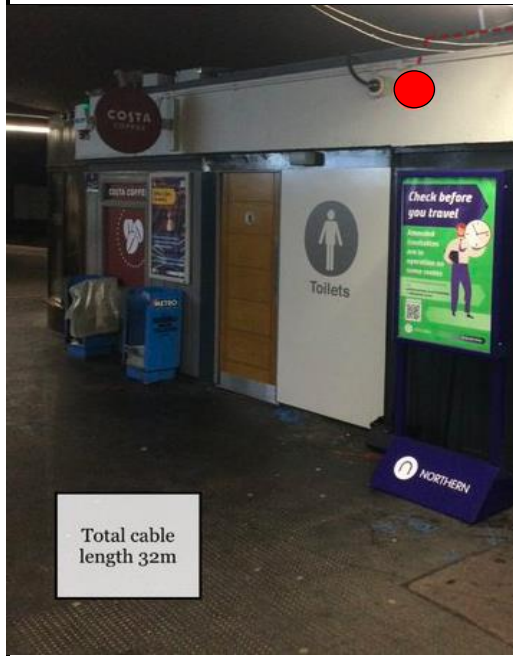
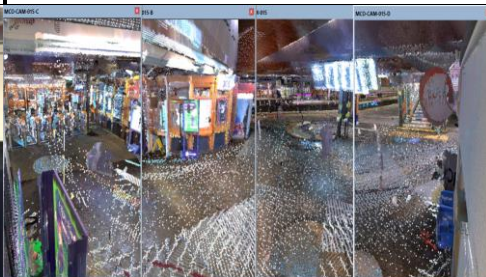
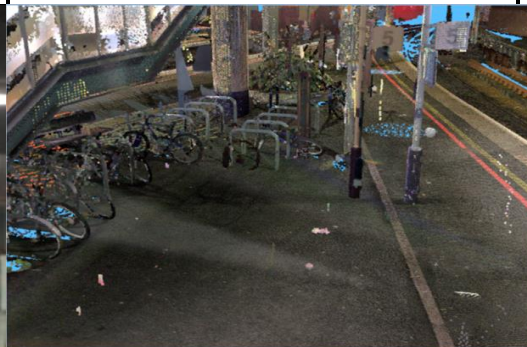
Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-005		New Camera ID		MCO-CAM-006							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Platform 5 Mess window		Location		Platfrom 5 Vending Machine							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV 6080		Model No		XNV 6080							
Camera Weight		1kg		Camera Weight		1kg							
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		37m		Cable Length		52m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC1-SWT01, Port 5		Cable From		MCO-CC1-SWT01, Port 6							
Cable To		MCO-CAM-005 Junction box (Backbox)		Cable To		MCO-CAM-006 Junction box (Backbox)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Standard wall mount via SBV-158G (Backbox) camera mount. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Proposed to be mounted to timber structure above CIS screen via SBV-158G (backbox) camera mount. Proposal pending upon authority of heritage. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		2.945 m		Camera Height [mm]		3.351 m / 3.6m							
Distance from PE [m]		2.4m		Distance from PE [m]		2.228m							
FoV Focal Length Setting		8mm - Recognition/Observe - 22.98 deg		FoV Focal Length Setting		7mm - Recognition/Observe -26.06 deg							
Exisiting Structure Type		Block wall		Exisiting Structure Type		Timber canopy column							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		BB/6080		Bracketry Type		BB/6080							
Installation		WM01/C01a		Installation		WM01/C04a							
Fixing Arrangement		C01a - refer to 244904		Fixing Arrangement		C04a - refer to 244904							
Installation Method		Screw and Rawl plug		Installation Method		M5 Wood screw and washer							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Fix camera to SBV-158G (Backbox) and mount directly to wall. Backbox will act as JB and reduce the amount of fixings in to the wall		Install Narrative		Fix camera to SBV-158G (Backbox) and mount directly to timber above CIS screen. Backbox will act as JB and reduce the amount of fixings in to the timber.							
Notes:		Final lens focal length and FoV to be optimised at commissioning..		Notes:		Final lens focal length and FoV to be optimised at commissioning.							
DORI Requirement: Recognition Required at Staff Entrance/Exit Observe to Recognise Required for Platform				DORI Requirement: Observe to Recognise Required for Platform Coverage									
Risk: Working at Height. Working near platform edge. OLE present				Risk: Working at Height. Working near platform edge OLE presentr									

Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-007		New Camera ID		MCO-CAM-008							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Main Entrance		Location		Corner of Gourmet Kitchen							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		PNM-9031RV Panoramic Dome (15MP) (Type 2)		Model No		XNV 6080							
Camera Weight		2.6 Kg		Camera Weight		1kg							
Camera Lens		4.3mm Fixed		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		40m		Cable Length		82m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC1-SWT01, Port 7		Cable From		MCO-CC1-SWT01, Port 8							
Cable To		MCO-CAM-007 Junction box (installation Box)		Cable To		MCO-CAM-008 Junction box (Backbox)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Standard wall mount via 300mm arm. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Standard Ceiling mount via SBV-158G (backbox) camera mount. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		3.414 m		Camera Height [mm]		2.520 m							
Distance from PE [m]		N/A		Distance from PE [m]		N/A							
FoV Focal Length Setting		4mm - Recognition/Observe - 180 deg		FoV Focal Length Setting		7mm - Recognition - 26.6 deg							
Exisiting Structure Type		Brickwall (rendered)		Exisiting Structure Type		Gourmet Kitchen ceiling cladding							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		SBP-276HM/SBP-300WM1/SBP-300NB/9031		Bracketry Type		BB/6080							
Installation		WM01/C01c		Installation		CM01/C04a							
Fixing Arrangement		C01c - refer to 244904		Fixing Arrangement		C04a - refer to 244904							
Installation Method		Rods and Chemfix		Installation Method		Wood screws and washers							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Camera to be fitted to SBP-276HM and then fixed on to SBP-300WM1. Then mount to SBP-300NB (installation Box) which in turn will be directly mounted to the wall via M10 rods and Chemfix. Installation Box to act as JB.		Install Narrative		Fix camera to SBV-158G (Backbox) and mount directly to timber cladding above . Backbox will act as JB and reduce the amount of fixings in to the timber.							
Notes:		Fixed Focal Length on 180° Panoramics, optimise view during commissioning using lens tilt function		Notes:		Final lens focal length and FoV to be optimised at commissioning. 2 Options for cable route:		telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888					
DORI Requirement:		Station Frontage: Observation to Recognition Required of Vehicle/Person		1. Gain access to building and run cable through 2. Bring conduit out the back of the cycle centre to camera 8									
Risk:		Working at Height. Sloping ground. Unknown cable, wrapped around existing camera bracket.		DORI Requirement: Car Park Entrance: Identify Required of Vehicle/Person									
Longer screws may be required depending on the thickness of rendering				Risk: Working at Height. Working around public Veicle Movements in vicinity of work area. Access to Cafe Out of Hours									

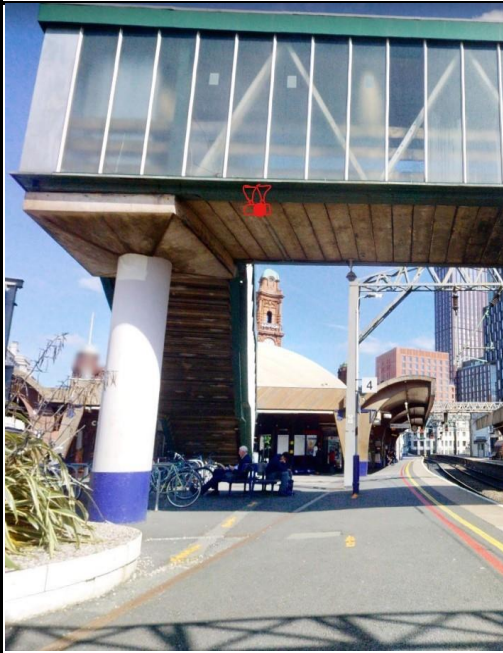
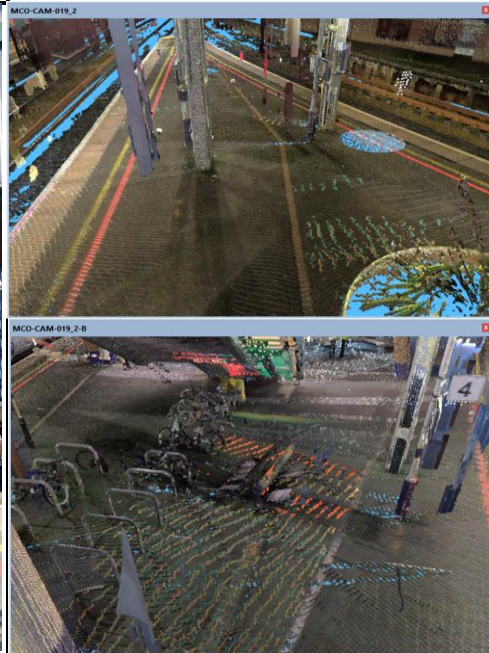
Camera Location		Camera view		Camera Location		Camera View		Notes:
						 		
New Camera ID		MCO-CAM-009		New Camera ID		MCO-CAM-010		
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A		
Location		Inside Bike Rack		Location		Main Entrance		
Manufacturer		Hanwha		Manufacturer		Hanwha		
Model No		XNV 6080		Model No		PNM-7002VD Dual Sensor Fixed Camera (Type 4)		
Camera Weight		1kg		Camera Weight		1kg		
Camera Lens		2.8mm - 12mm		Camera Lens		SLA-2M2402D(2MP 2.4mm) SLA-2M2802D(2MP 2.8mm) SLA-2M3602D(2MP 3.6mm) - Propose to use SLA-2M6002D(2MP 6.0mm)		
Cable Type		CAT6		Cable Type		CAT6		
Cable Length		70m		Cable Length		53m		
New or Existing Cable		New		New or Existing Cable		New		
Cable From		MCO-CC1-SWT01, Port 9		Cable From		MCO-CC1-SWT01, Port 10		
Cable To		MCO-CAM-009 Junction box (Backbox)		Cable To		MCO-CAM-008 Junction box (New JB)		
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		
Proposed Mounting Type		Standard Ceiling mount via SBV-158G (backbox) camera mount. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Standard wall mount via HMP01 mounting plate. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		
Camera Height [m]		2.356 m		Camera Height [m]		4.775 m		
Distance from PE [m]		N/A		Distance from PE [m]		N/A		
FoV Focal Length Setting		3mm - Identify - 58.86 deg		FoV Focal Length Setting		4mm - Observe - 71.20 deg		
Exisiting Structure Type		Timber Bike shelter ceiling cladding		Exisiting Structure Type		Brickwall (Rendered)		
Mounting Plate		N/A		Mounting Plate		HMP01		
Bracketry Type		BB/6080		Bracketry Type		HMP01/7002		
Installation		CM01/C04a		Installation		WM01/C01b		
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C01b - refer to 244904		
Installation Method		Wood screws and washers		Installation Method		Rods and Chemfix (C01b)		
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour		
Install Narrative		Fix camera to SBV-158G (Backbox) and mount directly to timber ceiling . Backbox will act as JB and reduce the amount of fixings in to the timber. Make sure camera height is 2.3m minimum.		Install Narrative		Wall mounted via HMP01 mounting plate. Refer to HMP01/7002/WM01 from VSS catalogue.		
Notes:		Final lens focal length and FoV to be optimised at commissioning. Change in location to provide coverage of entrance and to allow safe install and maintainance. DORI Requirement: Identify required at Bike Rack Risk: Working at Height. Access to Bike Shed (1975)		Notes:		Fixed focal length lenses, FoV to be optimised at commissioning utilising tilt/rotation. DORI Requirement: Observation Required Vehicle/Person Risk: Working at Height. Working in public access		

[illegible]

Camera Location		Camera view		Camera Location		Camera View		Notes:																																						
																																														
New Camera ID		MCO-CAM-013		New Camera ID		MCO-CAM-014																																								
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A																																								
Location		Main Entrance		Location		Building ceiling/roof near ticket line																																								
Maunfacturer		Hanwha		Maunfacturer		Hanwha		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>13/05/22</td><td colspan="2">ISSUED FOR APPROVAL</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>1</td><td>05/05/22</td><td colspan="2">DRAFT FIRST ISSUE</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>Rev.</td><td>Date</td><td colspan="2">Issue Status/ Revisions</td><td>Drawn</td><td>Chkd.</td><td>Appr.</td></tr></table>																		2	13/05/22	ISSUED FOR APPROVAL		CM	RS	NL	1	05/05/22	DRAFT FIRST ISSUE		CM	RS	NL	Rev.	Date	Issue Status/ Revisions		Drawn	Chkd.	Appr.
2	13/05/22	ISSUED FOR APPROVAL		CM	RS	NL																																								
1	05/05/22	DRAFT FIRST ISSUE		CM	RS	NL																																								
Rev.	Date	Issue Status/ Revisions		Drawn	Chkd.	Appr.																																								
Model No		XNV 6080		Model No		XNF-8010RV Fisheye (6MP) (Type 3)																																								
Camera Weight		1.25 Kg		Camera Weight		785g																																								
Camera Lens		2.8mm		Camera Lens		1.6mm																																								
Cable Type		CAT6		Cable Type		CAT6																																								
Cable Length		10m		Cable Length		30m																																								
New or Existing Cable		New		New or Existing Cable		New																																								
Cable From		MCO-CC1-SWT02, Port 1		Cable From		MCO-CC1-SWT02, Port 2																																								
Cable To		MCO-CAM-013 Junction box (Backbox)		Cable To		MCO-CAM-014 Junction box (New JB)																																								
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.																																								
Proposed Mounting Type		New proposal to separate dual camera in to 2 cameras. This camera would be replacing an existing camera like for like with a view of the ticket gateline. Suggest new camera that can be housed on a SBV-158G backbox. (6080). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Roof/Ceiling mount via unistrut slotted arm cant (P2663T). Refer to Drawing S02002.ENGR.DRGS.629001. Camera mount will use M12 fixings which are highlighted in the fixing arrangement section (244904)																																								
Camera Height [m]		2.56m		Camera Height [mm]		3.097m																																								
Distance from PE [m]		N/A		Distance from PE [m]		N/A																																								
FoV Focal Length Setting		5mm- Identify - 35.91 deg		FoV Focal Length Setting		2mm - Recognise - 122.75 deg																																								
Exisiting Structure Type		Timber fascia cladding		Exisiting Structure Type		(Assumed) Brickwork																																								
Mounting Plate		N/A		Mounting Plate		N/A																																								
Bracketry Type		BB/6080		Bracketry Type		P2663T/HMP02/8010																																								
Installation		WM01/C04a		Installation		CM01/C01d																																								
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C01d - refer to 244904																																								
Installation Method		Wood screws and washers		Installation Method		Rods and Chemfix																																								
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour																																								
Install Narrative		mounted directly to timber wall replacing the existing like for like. Camera to be fixed to SBV-158G backbox prior to mounting to wall. Backbox will act as JB and reduce the amount of fixings in to the wall.		Install Narrative		Cut threaded rod down to appropriate length using fixing options drawing 244904 for guidance. Drill out 14mm holes, and chemfix the threaded rod , then fix P2663T slotted cant arm to ceiling/roof. Fix camera to HMP02 mounting plate and mount directly the unistrut (P2663T) using M8 channel nut and fixings. JB will be mounted separately and adjacent to camera mount using the fixings included. Refer to drawing S02002.ENGR.DRGS.629001																																								
Notes:		Final lens focal length and FoV to be optimised at commissioning.		Notes:		Fixed Focal Length																																								
DORI Requirement:		Identify required at Ticket barrier		DORI Requirement:		Recognise Required at Ticket Barrier																																								
Risk:		Working at Height. Working in public access		Risk:		Working at Height. Working around station furniture																																								
Original option was to install PNM-7002VD Dual Sensor Fixed Camera (Type 4) to capture the entrance inside and outside. The issue with this was to getting the FoV required, therefore the new proposal is to split camera 13 in to 1 x XNV-6080 (CAM13) & 1x PNV-A6081R (AI) (CAM20) for the camera covering the entrance into the station as this requires appearance search capability (As per camera schedule).																																														

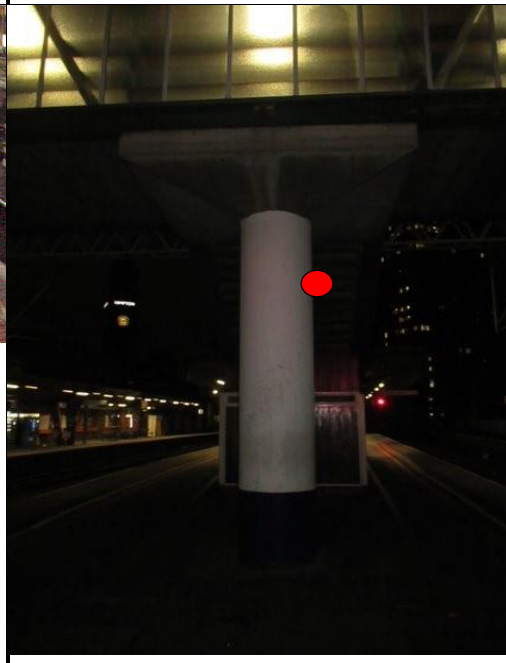
Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
Total cable length 32m				This is a new location suggested for cam 16 that will give full coverage of bike area as shown. Fix camera direct to wooden fascia.		Total cable length 60.5m							
New Camera ID		MCO-CAM-015		New Camera ID		MCO-CAM-016							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Main Entrance Male Toilets		Location		Toilets near ticket line							
Manufacturer		Hanwha		Manufacturer		Hanwha							
Model No		PNM-9031RV Panoramic Dome (15MP) (Type 2)		Model No		XNV 6080							
Camera Weight		2.6 Kg		Camera Weight		1kg							
Camera Lens		4.3mm Fixed		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		32m		Cable Length		61m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC1-SWT02, Port 3		Cable From		MCO-CC1-SWT02, Port 4							
Cable To		MCO-CAM-015 Junction box (New JB)		Cable To		MCO-CAM-016 Junction box (Backbox))							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Standard wall mount via HMP01 mounting plate. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904). M8 fixings in to the wall. Alternative to using mounting plate would be to install camera and JB diect to wall but this would mean more fixings in to the wall.		Proposed Mounting Type		Standard wall mount via SBV-158G (backbox) camera mount. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		2.650m		Camera Height [mm]		3.350m							
Distance from PE [m]		N/A		Distance from PE [m]		N/A							
FoV Focal Length Setting		4mm- Recognise/Observe - 70 deg		FoV Focal Length Setting		5mm - Recognise/Observe - 35.91 deg							
Exisiting Structure Type		Timber Cladding		Exisiting Structure Type		Timber fascia cladding							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		9031/JB (separate on roof)		Bracketry Type		BB/6080							
Installation		direct mount/C04a		Installation		WM01/C04a							
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C04a - refer to 244904							
Installation Method		Screws and washers (C04a)		Installation Method		Wood screws and washers							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Direct Wall mounted, JB fixed to roof out of sight. Follow 244904 (fixing options for wall mount)		Install Narrative		Mount camera to SBV-158G (Backbox) and mount directly to timber fascia using M6 wood screws. - Refer to C04a (244904) Backbox will act as JB and reduce the amount of fixings in to the wall							
Notes:		Fixed Focal Length on 180° Panoramics, optimise view during commissioning using lens tilt function		Notes:		Final lens focal length and FoV to be optimised at commissioning.							
DORI Requirement:		Recognise Required Concourse		DORI Requirement:		Recognise Required at Bike Rack/Observe on Platform							
Risk:		Working at Height. Working around station furniture		Risk:		Working at Height.							

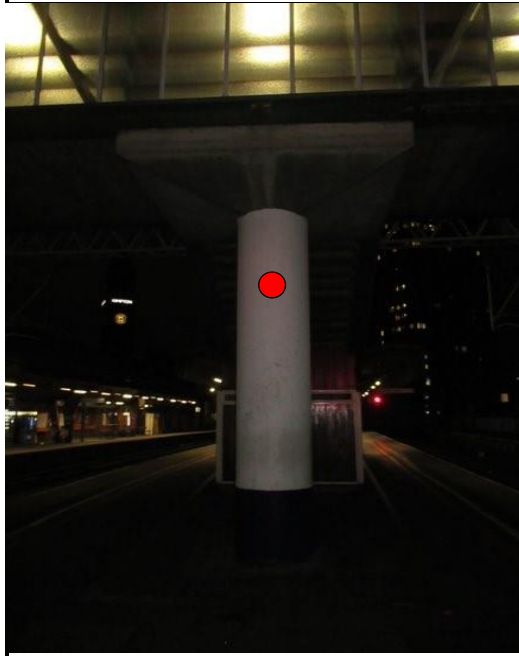
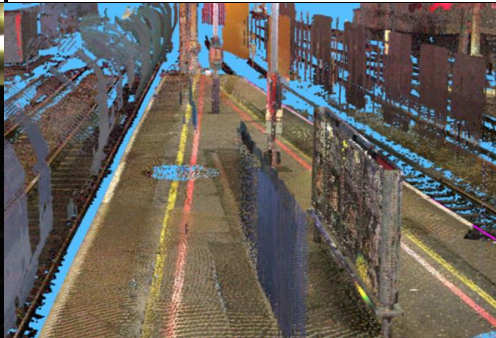
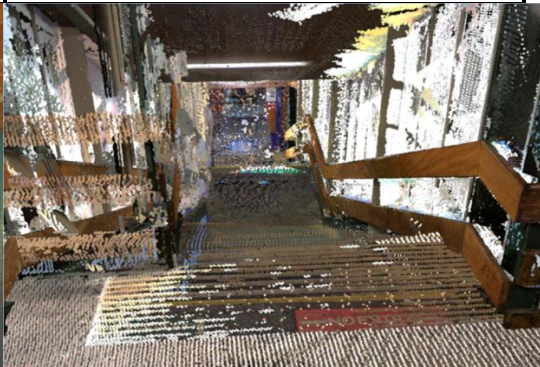
Camera Location		Camera view		Camera Location		Camera View	
							
Total cable length 66.5m Install new 25mm conduit to camera 17. Install T box as conduit is to continue to camera 22. Remove existing camera and replace with new.							
New Camera ID	MCO-CAM-017	New Camera ID	MCO-CAM-018				
ASP Proposed Camera ID	N/A	ASP Proposed Camera ID	N/A				
Location	Platform 4&5 - Footbridge Stairs	Location	Footbridge				
Manufacturer	Hanwha	Manufacturer	Hanwha				
Model No	XNV 6080	Model No	XNV 6080				
Camera Weight	1kg	Camera Weight	1kg				
Camera Lens	2.8mm - 12mm	Camera Lens	2.8mm - 12mm				
Cable Type	CAT6	Cable Type	CAT6				
Cable Length	67m	Cable Length	81m				
New or Existing Cable	New	New or Existing Cable	New				
Cable From	MCO-CC1-SWT02, Port 5	Cable From	MCO-CC1-SWT02, Port 6				
Cable To	MCO-CAM-017 Junction box (Backbox)	Cable To	MCO-CAM-018 Junction box (Backbox)				
Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.	Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.				
Proposed Mounting Type	Standard wall mount via SBV-158G (Backbox) camera mount. Camera mount to be a like for like. Mounting option is based on assumed timber structure type. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)	Proposed Mounting Type	Replacing camera like for like, Ceiling mount via SBV-158G (backbox) camera mount. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)				
Camera Height [m]	2.714 m	Camera Height [mm]	2.290 m				
Distance from PE [m]	N/A	Distance from PE [m]	N/A				
FoV Focal Length Setting	6mm - Recognise/Observe - 30.16 deg	FoV Focal Length Setting	3mm - Recognise/Observe - 58.86 deg				
Existing Structure Type	Tiled, presumed timber frame	Existing Structure Type	Timber ceiling Cladding				
Mounting Plate	N/A	Mounting Plate	N/A				
Bracketry Type	BB/6080	Bracketry Type	BB/6080				
Installation	WM01/C04a	Installation	direct mount/C04a				
Fixing Arrangement	C04a - refer to 244904	Fixing Arrangement	C04a - refer to 244904				
Installation Method	Wood screws and washers	Installation Method	Wood screws and washers				
Bracket Colour	Standard Camera Colour	Bracket Colour	Standard Camera Colour				
Install Narrative	Mount camera to SBV-158G (Backbox) and mount directly to Tiles, predrilling through the tiles first, then use M6 wood screws, or whatever screws relevant to mount to the structure behind - Refer to C04a (244904). See how existing camera is mounted and mount the new based on the existing structure type	Install Narrative	mounted directly to timber ceiling cladding via SBV-158G (Backbox), replace old camera for new. Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required				
Notes:	Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Observe to Recognise - Whole Staircase FoV calc shows Observe achievable at required 16m / Recognise at 10m Risk: Working at Height.	Notes:	Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Observe to Recognise - Whole Staircase Risk: Working at Height. Working near stairs				
				 talent with technology telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888			
				Project Title Manchester Oxford Road CCTV Renewals Drawing Title Manchester Oxford Road VSS Datasheet Designed C. Merrick / L. Pelling / G. Kilding Checked R. Singleton Approved N. Loveitt Responsible Engineer R. Burrows Date 13/05/2022 Drawn C. Merrick Scale N.T.S. Sheet 10 of 27 Document Reference: S02002.ENGR.DRGS.627680 Issue Number 2			

Camera Location		Camera view		Camera Location		Camera View		Notes:
								
New Camera ID		MCO-CAM-019		New Camera ID		MCO-CAM-020		
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A		
Location		Platform 4&5 - Underneath Footbridge		Location		Station Entrance		
Manufacturer		Hanwha		Manufacturer		Hanwha		
Model No		PNM-7002VD Dual Sensor Fixed Camera (Type 4)		Model No		PNV-A6081R		
Camera Weight		1kg		Camera Weight		1kg		
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm		
Cable Type		CAT6		Cable Type		CAT6		
Cable Length		86m		Cable Length		9m		
New or Existing Cable		New		New or Existing Cable		New		
Cable From		MCO-CC1-SWT02, Port 7		Cable From		MCO-CC1-SWT02, Port 8		
Cable To		MCO-CAM-019 Junction box (New JB)		Cable To		MCO-CAM-020 Junction box (new JB)		
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		
Proposed Mounting Type		Bespoke Beam Mounted - Refer to drawing S02002.ENGR.DRGS.629001 for install.		Proposed Mounting Type		Proposed location is to be mounted on timber fascia at front of station. CAM-013 is to be split in to 2 x 6080 cameras therefore CAM-20 will act as CAM-013b. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		
Camera Height [m]		4.385 m		Camera Height [mm]		2.60m		
Distance from PE [m]		N/A		Distance from PE [m]		2.977m		
FoV Focal Length Setting		3.6mm - Recognise/Observe - 49.30 deg		FoV Focal Length Setting		6mm - Recognise - 37.83 deg		
Existing Structure Type		Steel Beam		Existing Structure Type		Timber fascia cladding		
Mounting Plate		HMP01		Mounting Plate		N/A		
Bracketry Type		BSP CAM-019 bracket/7002		Bracketry Type		6081/direct mount		
Installation		Beam Mount		Installation		WM01/C04a		
Fixing Arrangement		BSP CAM-019 on drawing S02002.ENGR.DRGS.629001		Fixing Arrangement		C04a - refer to 244904		
Installation Method		Refer to drawing S02002.ENGR.DRGS.629001		Installation Method		Wood screws and washers		
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour		
Install Narrative		M8 hollo-bolts to connect 90x90 angle support bracket to beam. Connect Wing fitting channel bracket to 90x90 angle bracket using M8 set screw fixings. Then fix a vertical length of unistrut to the wing fitted channel bracket and a horizontal length connected to it using M8 channel nuts. The camera and mounting place will then be fitted to the horizontal piece of unistrut with M8 30mm set screws.		Install Narrative		mounted directly to timber wall. JB will be separate from camera and fixed on the top of the timber frame		
Notes:		Final lens focal length and FoV to be optimised at commissioning. Camera on stairs would be mounted to uni strut using internal beam clamps Camera on column would need to be banded DORI Requirement: Recognise Required at 10 Metres on Platform both directions Risk: Working at Height. Rail staff to close out bike rack before install Working over station furniture May need to paint containment Original scope requirement was to install XNV-6080 camera however new proposal is to merge CAM-019 and CAM-021 in to 1 camera (7002). The new proposal does not adversely affect coverage		Notes:		Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Identify required a TVM at 6.5m Risk: Working at Height. Original scope requirement for CAM-020 was mounted to the footbridge looking towards the EOP for PLT4/5. What was discovered is that CAM-019 and CAM-020 had almost the exact same view therefore it was decided that CAM-020 was no longer required, however CAM-013 is being split in to 2 separate cameras, 1 x XNV-6080 (CAM13) & 1x PNV-A6081R (AI) (CAM20) to obtain the required FoV, so CAM-20 will be used as CAM-013's secondary camera. See cone layout as to where the camera is located.		

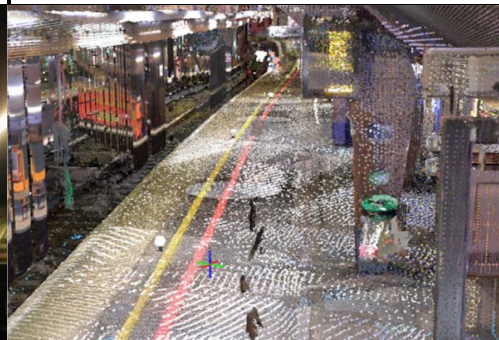
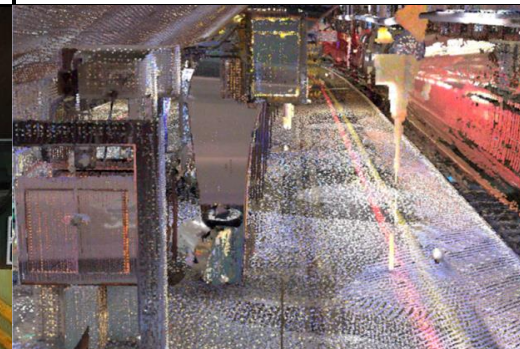
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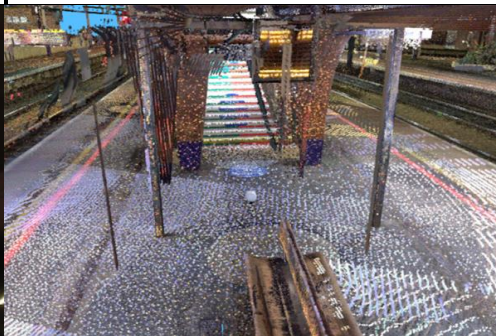
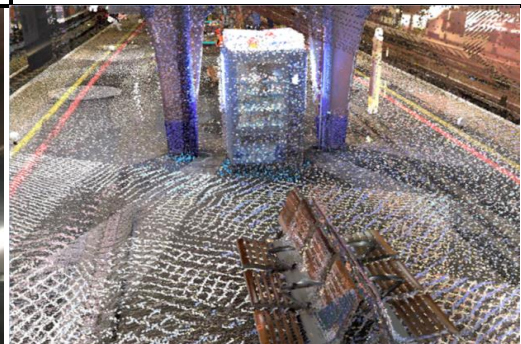
Camera Location		Camera view		Camera Location		Camera View	
New Camera ID	MCO-CAM-023	New Camera ID	MCO-CAM-024				
ASP Proposed Camera ID	N/A	ASP Proposed Camera ID	N/A				
Location	Platform 4	Location	Platform 4				
Maunfacturer	Hanwha	Manufacturer	Hanwha				
Model No	XNV 6080	Model No	XNV-6012 Fixed Micro Dome 2.4mm (Type 6)				
Camera Weight	1kg	Camera Weight	295g				
Camera Lens	2.8mm - 12mm	Camera Lens	Built-in 2.4mm fixed lens				
Cable Type	CAT6	Cable Type	CAT6				
Cable Length	14m	Cable Length	65m to base of lift shaft				
New or Existing Cable	New	New or Existing Cable	New				
Cable From	MCO-CC1-SWT02, Port 10	Cable From	MCO-CC1-SWT02, Port 11				
Cable To	MCO-CAM-023 Junction box (Backbox)	Cable To	MCO-CAM-024 Junction box (New JB)				
Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.	Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.				
Proposed Mounting Type	Replacing existing camera Like for Like via SBV-158G (Backbox). Direct mount on timber canopy column. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)	Proposed Mounting Type	Method of installation to lift car to be agreed with Stannah Installation be assisted by Stannah the lift maintainers. Attendance of Stannah will be agreed/arranged with Northern Trains & Network Rail				
Camera Height [m]	2.958 m	Camera Height [mm]	2.197 m				
Distance from PE [m]	2.816m	Distance from PE [m]	2.174 m				
FoV Focal Length Setting	8mm - Recognise - 22.98 deg	FoV Focal Length Setting	2mm - Identification - 71.20 deg				
Existing Structure Type	Timber canopy column	Exisiting Structure Type	Lift ceiling				
Mounting Plate	N/A	Mounting Plate	N/A				
Bracketry Type	BB/6080	Bracketry Type	N/A				
Installation	WM01/C04a	Installation	Direct mount to lift ceiling				
Fixing Arrangement	C04a - refer to 244904	Fixing Arrangement	Camera to be fixed by Stannah lift maintainers				
Installation Method	Wood screws and washers	Installation Method	C08a, Direct mount to ceiling				
Bracket Colour	Standard Camera Colour	Bracket Colour	Standard Camera Colour				
Install Narrative	Fix new camera to SBV-158G (Backbox) and mount directly to timber canopy in place of existing camera. M6 wood screws required	Install Narrative	camera to mount directly to lift ceiling. Cable run and camera mount for lift to be completed by lift maintainer. We will be responsible for FoV for the camera.				
Notes:	Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Recognise Required at 10 Metres on Platform Risk: Working at Height. Working near platform	Notes:	Fixed Lens (2.4mm), camera should be aligned to obtain maximum possible coverage within lift car DORI Requirement: Lift Car - Whole Space - Identification Required Risk: Working at Height. Stannah lift maintainers to install and commission Confirmation on route required, preferred option to run cable to subway, lift maintainers to pull cable through lift shaft to lift motor room JB.				
				 telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888			
				Project Title Manchester Oxford Road CCTV Renewals			
				Drawing Title Manchester Oxford Road VSS Datasheet			
				Designed C. Merrick / L. Pelling / G. Kilding			
				Checked R. Singleton			
				Approved N. Loveitt			
				Responsible Engineer R. Burrows			
				Date 13/05/2022			
				Drawn C. Merrick			
				Scale N.T.S.			
				Sheet 13 of 27			
				Document Reference: S02002.ENGR.DRGS.627680			
				Issue Number 2			

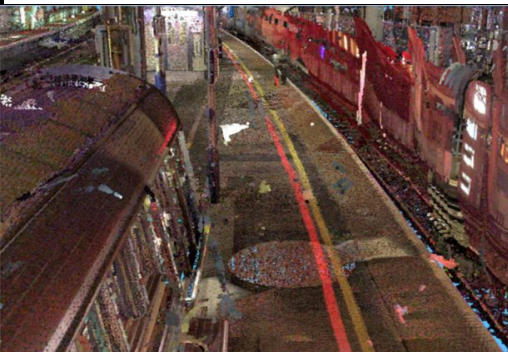
Camera Location		Camera view		Camera Location		Camera View		Notes:
								
New Camera ID		MCO-CAM-025		New Camera ID		MCO-CAM-026		
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A		
Location		Platform 4 Lift Building		Location		Platform 2		
Maunfacturer		Hanwha		Maunfacturer		Hanwha		
Model No		XNV 6080		Model No		XNV 6080		
Camera Weight		1kg		Camera Weight		1kg		
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm		
Cable Type		CAT6		Cable Type		CAT6		
Cable Length		60m		Cable Length		41m		
New or Existing Cable		New		New or Existing Cable		New		
Cable From		MCO-CC1-SWT02, Port 12		Cable From		MCO-CC2-SWT01, Port 1		
Cable To		MCO-CAM-025 Junction box (New JB)		Cable To		MCO-CAM-026 Junction box (New JB)		
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		
Proposed Mounting Type		Camera wall mounted on 600mm arm to get view past stair case. Refer to drawing S02002.ENGR.DRGS.629001		Proposed Mounting Type		Concrete Wall mount via HMP01. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		
Camera Height [m]		2.50m		Camera Height [mm]		2.60m		
Distance from PE [m]		2.971m		Distance from PE [m]		3.556m		
FoV Focal Length Setting		10mm - Recognise - 18.63 deg		FoV Focal Length Setting		3mm - Identify - 58.86 deg		
Exisiting Structure Type		Brickwall (Rendered)		Exisiting Structure Type		Concrete Column		
Mounting Plate		N/A		Mounting Plate		HMP01		
Bracketry Type		BSP MOUNTS/WB1D/SBP-300HM6/6080		Bracketry Type		HMP01/6080		
Installation		WM01/C01c		Installation		WM01/C03b		
Fixing Arrangement		C01c - refer to 244904		Fixing Arrangement		C03b - Refer to 244904		
installation Method		Rods and Chemfix (C01c)		installation Method		Rods and Chemfix (C03b)		
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour		
Install Narrative		Altron (WB1D) 600mm arm bracket Wall mounted with camera fixed to SBP-300HM6 and fixed to bracket, 12mm holes to be drill to allow for M10 fixings in to the rendered wall. JB to be wall mounted adjacent to WB1D bracket.		Install Narrative		Due to curviture of concrete column, camera is to be fixed to HMP01 and then mounted to wall via threaded rod and chemfix, and then level off the plate by adjusting the nuts.		
Notes:				Notes:				<

Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-027		New Camera ID		MCO-CAM-028							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Underneath Footbridge Platform 2 & 3		Location		Footbridge							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV 6080		Model No		XNV 6080							
Camera Weight		1kg		Camera Weight		1kg							
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		41m		Cable Length		33m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC2-SWT01, Port 2		Cable From		MCO-CC2-SWT01, Port 3							
Cable To		MCO-CAM-027 Junction box (New JB)		Cable To		MCO-CAM-028 Junction box (Backbox)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Concrete Wall mount via HMP01. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Replacing like for like, Ceiling mount via SBV-158G (Backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		2.6m		Camera Height [mm]		2.30m							
Distance from PE [m]		3.556m		Distance from PE [m]		N/A							
FoV Focal Length Setting		9mm - Recognise - 20.57 deg		FoV Focal Length Setting		5mm - Recognise - 35.91 deg							
Exisiting Structure Type		Concrete column		Exisiting Structure Type		Timber ceiling panels							
Mounting Plate		HMP01		Mounting Plate		N/A							
Bracketry Type		HMP01/6080		Bracketry Type		BB/6080							
Installation		WM01/C03a		Installation		CM01/C04a							
Fixing Arrangement		C03b - Refer to 244904		Fixing Arrangement		C04a - refer to 244904							
installation Method		Rods and Chemfix		installation Method		Wood screws and washers							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Due to curvature of concrete column, camera is to be fixed to HMP01 and then mounted to wall via threaded rod and chemfix, and then level off the plate by adjusting the nuts.		Install Narrative		mounted directly to timber ceiling cladding via SBV-158G (Backbox), replace old camera for new. Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required							
Notes:		Final lens focal length and FoV to be optimised at commissioning.		Notes:		Final lens focal length and FoV to be optimised at commissioning.							
DORI Requirement: Recognise on Platform Required at 10 Metres				DORI Requirement: Observe to Recognise - Whole Staircase									
Risk: Working at Height. Working near platform edge				Risk: Working at Height. Working near stairs									

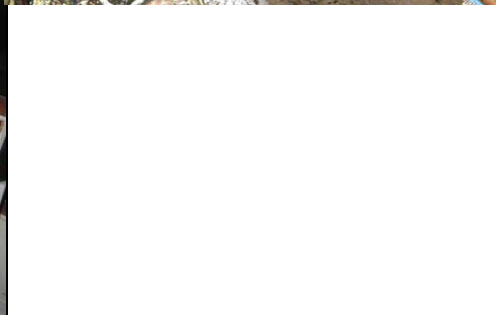
					
Alliance Partner/Contractor					
 talent with technology			telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888		
Project Title					
Manchester Oxford Road CCTV Renewals					
Drawing Title					
Manchester Oxford Road VSS Datasheet					
Designed C. Merrick / L. Pelling / G. Kilding			Checked R. Singleton		
Approved N. Loveitt			Responsible Engineer R. Burrows		
Date 13/05/2022			Drawn C. Merrick		
Scale N.T.S.			Sheet 15 of 27		
Document Reference: S02002.ENGR.DRGS.627680					Issue Number 2

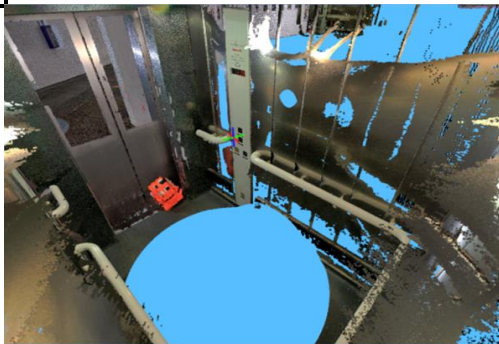
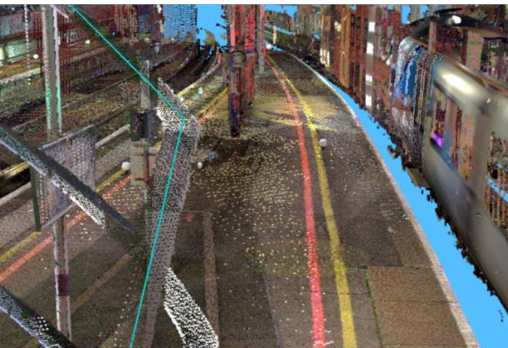
Camera Location		Camera view		Camera Location		Camera View		Notes:																																																									
																																																																	
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Camera Location		Camera view		Camera Location		Camera View		Notes:
								
New Camera ID		MCO-CAM-031		New Camera ID		MCO-CAM-032		
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A		
Location		Platform 2 & 3		Location		Plaform 2 & 3 stairs		
Maunfacturer		Hanwha		Maunfacturer		Hanwha		
Model No		XNV 6080		Model No		XNV 6080		
Camera Weight		1kg		Camera Weight		1kg		
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm		
Cable Type		CAT6		Cable Type		CAT6		
Cable Length		23m		Cable Length		24m		
New or Existing Cable		New		New or Existing Cable		New		
Cable From		MCO-CC2-SWT01, Port 6		Cable From		MCO-CC2-SWT01, Port 7		
Cable To		MCO-CAM-031 Junction box (Backbox)		Cable To		MCO-CAM-032 Junction box (Backbox)		
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		
Proposed Mounting Type		Replacing camera like for like, Ceiling cladding mount via SBV-158G (Backbox) Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Ceiling cladding mount via SBV-158G (Backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		
Camera Height [m]		3.05m		Camera Height [mm]		3.030m		
Distance from PE [m]		4.064m		Distance from PE [m]		4.328m		
FoV Focal Length Setting		4mm - Recognise - 44.60 deg		FoV Focal Length Setting		5mm - Recognise - 35.91 deg		
Exisiting Structure Type		Timber ceiling Cladding		Exisiting Structure Type		Timber ceiling Cladding		
Mounting Plate		N/A		Mounting Plate		N/A		
Bracketry Type		BB/6080		Bracketry Type		BB/6080		
Installation		CM01/C04a		Installation		CM01/C04a		
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C04a - refer to 244904		
Installation Method		Wood screws and washers		Installation Method		Wood screws and washers		
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour		
Install Narrative		mounted directly to timber ceiling cladding via SBV-158G (Backbox), replace old camera for new. Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required		Install Narrative		mounted directly to timber ceiling cladding via SBV-158G (Backbox). Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required		
Notes:		Final lens focal length and FoV to be optimised at commissioning. Unclear on clients precise location of camera, but suggest replacing like for like. DORI Requirement: Observe to Recognise - Whole Staircase Risk: Working at Height. Working near platform edge		Notes:		Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Identify required at Vending Machine - 6 Metres Risk: Working at Height. Working near platform edge		
Alliance Partner/Contractor				 telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888				
Project Title								
Drawing Title								
Designed		Checked						
C. Merrick / L. Pelling / G. Kilding		R. Singleton						
Approved		Responsible Engineer						
N. Loveitt		R. Burrows						
Date		Drawn						
13/05/2022		C. Merrick						
Scale		Sheet						
N.T.S.		17 of 27						
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Camera Location		Camera view		Camera Location		Camera View		Notes:			
											
New Camera ID				MCO-CAM-033		New Camera ID				MCO-CAM-034	
ASP Proposed Camera ID				N/A		ASP Proposed Camera ID				N/A	
Location				Platform 3		Location				Platform 2 & 3	
Manufacturer				Hanwha		Manufacturer				Hanwha	
Model No				XNV 6080		Model No				XNV 6080	
Camera Weight				1kg		Camera Weight				1kg	
Camera Lens				2.8mm - 12mm		Camera Lens				2.8mm - 12mm	
Cable Type				CAT6		Cable Type				CAT6	
Cable Length				48m		Cable Length				49m	
New or Existing Cable				New		New or Existing Cable				New	
Cable From				MCO-CC2-SWT01, Port 8		Cable From				MCO-CC2-SWT01, Port 9	
Cable To				MCO-CAM-033 Junction box (Backbox)		Cable To				MCO-CAM-034Junction box (Backbox)	
Cable Termination				Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination				Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.	
Proposed Mounting Type				Mounting to wooden arch, via SBV-158G (Backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Mounting to wooden arch, via SBV-158G (Backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)			
Camera Height [m]				3.374m		Camera Height [mm]				3.35m	
Distance from PE [m]				2.349m		Distance from PE [m]				2.314m	
FoV Focal Length Setting				6mm - Recognise - 30.16 deg		FoV Focal Length Setting				6mm - Recognise - 30.16 deg	
Existing Structure Type				Timber canopy column		Exisiting Structure Type				Timber canopy column	
Mounting Plate				N/A		Mounting Plate				N/A	
Bracketry Type				BB/6080		Bracketry Type				BB/6080	
Installation				WM01/C04a		Installation				WM01/C04a	
Fixing Arrangement				C04a - refer to 244904		Fixing Arrangement				C04a - refer to 244904	
Installation Method				Wood screws and washers		Installation Method				Wood screws and washers	
Bracket Colour				Standard Camera Colour		Bracket Colour				Standard Camera Colour	
Install Narrative				Fix new camera to SBV-158G (Backbox) and mount directly to timber canopy. Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required		Install Narrative				Fix new camera to SBV-158G (Backbox) and mount directly to timber canopy. Backbox will act as JB and reduce the amount of fixings in to the wall M6 wood screws required.	
Notes:				Final lens focal length and FoV to be optimised at commissioning.		Notes:				Final lens focal length and FoV to be optimised at commissioning.	
DORI Requirement: Recognise on Platform Required at 10 Metres						DORI Requirement: Recognise on Platform Required at 10 Metres					
Risk: Working at Height. Working near platform edge						Risk: Working at Height. Working near platform edge					

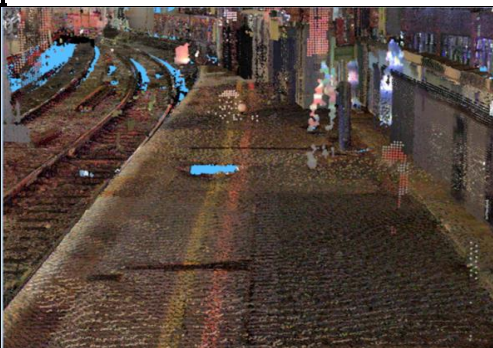
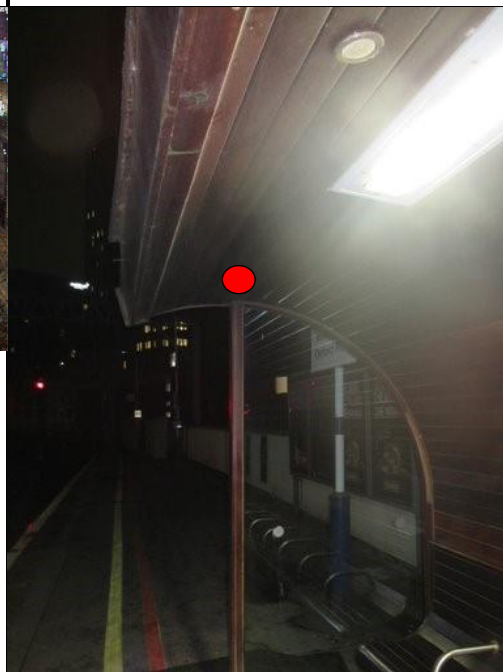
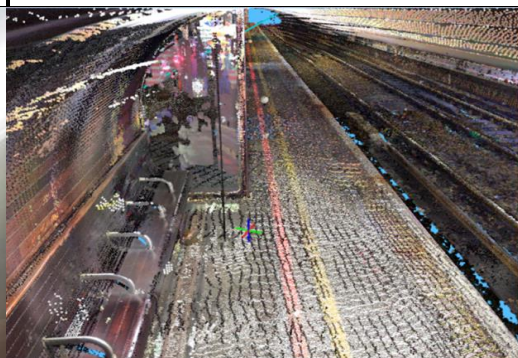
	
Alliance Partner/Contractor	
	telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888
Project Title	
Manchester Oxford Road CCTV Renewals	
Drawing Title	
Manchester Oxford Road VSS Datasheet	
Designed	Checked
C. Merrick / L. Pelling / G. Kilding	R. Singleton
Approved	Responsible Engineer
N. Loveitt	R. Burrows
Date	Drawn
13/05/2022	C. Merrick
Scale	Sheet
N.T.S.	18 of 27
Document Reference:	
S02002.ENGR.DRGS.627680	
Issue Number	
2	

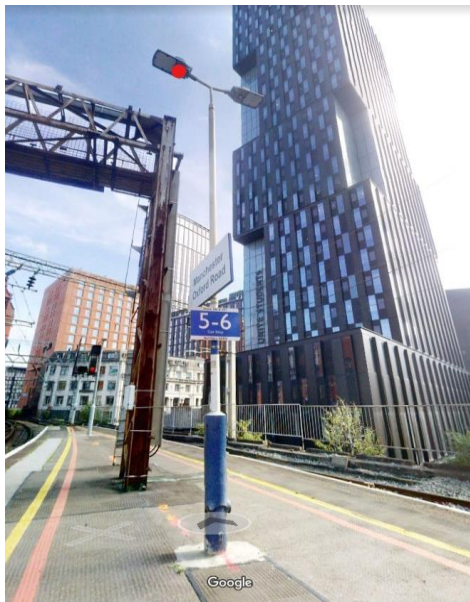
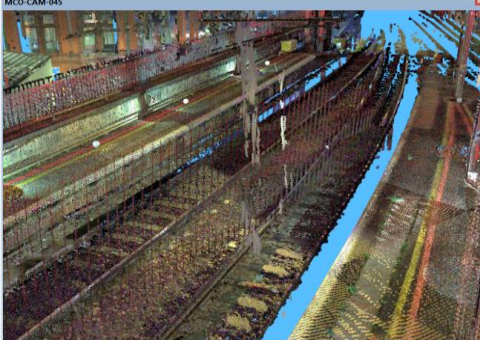
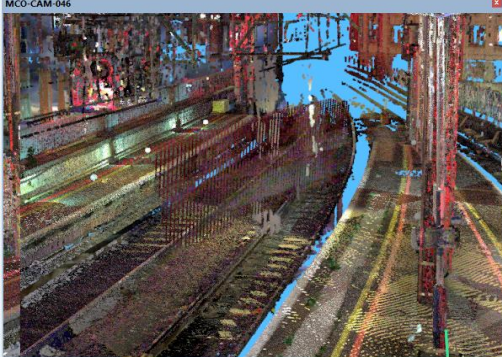
Camera Location		Camera view		Camera Location		Camera View		Notes:																																																																																																																									
		 				 																																																																																																																											
New Camera ID		MCO-CAM-035		New Camera ID		MCO-CAM-036																																																																																																																											
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A																																																																																																																											
Location		Shelter Platform 2 & 3		Location		PLT 2/3 Lift Building		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>13/05/22</td><td>ISSUED FOR APPROVAL</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>1</td><td>05/05/22</td><td>DRAFT FIRST ISSUE</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>Rev.</td><td>Date</td><td>Issue Status/ Revisions</td><td>Drawn</td><td>Chkd.</td><td>Appr.</td></tr><tr><td colspan="3">telent Project Manager: Ash Ghandi</td><td colspan="3">Northern Project Manager: Ian Hutton</td></tr><tr><td colspan="6">Client</td></tr><tr><td colspan="6"></td></tr><tr><td colspan="6">Alliance Partner/Contractor</td></tr><tr><td colspan="6"><table><tr><td></td><td>telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888</td></tr></table></td></tr><tr><td colspan="6">Project Title</td></tr><tr><td colspan="6">Manchester Oxford Road CCTV Renewals</td></tr><tr><td colspan="6">Drawing Title</td></tr><tr><td colspan="6">Manchester Oxford Road VSS Datasheet</td></tr><tr><td colspan="3">Designed C. Merrick / L. Pelling / G. Kilding</td><td colspan="3">Checked R. Singleton</td></tr><tr><td colspan="3">Approved N. Loveitt</td><td colspan="3">Responsible Engineer R. Burrows</td></tr><tr><td colspan="3">Date 13/05/2022</td><td colspan="3">Drawn C. Merrick</td></tr><tr><td colspan="3">Scale N.T.S.</td><td colspan="3">Sheet 19 of 27</td></tr><tr><td colspan="5">Document Reference: S02002.ENGR.DRGS.627680</td><td>Issue Number 2</td></tr></table>																		2	13/05/22	ISSUED FOR APPROVAL	CM	RS	NL	1	05/05/22	DRAFT FIRST ISSUE	CM	RS	NL	Rev.	Date	Issue Status/ Revisions	Drawn	Chkd.	Appr.	telent Project Manager: Ash Ghandi			Northern Project Manager: Ian Hutton			Client												Alliance Partner/Contractor						<table><tr><td></td><td>telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888</td></tr></table>							telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888	Project Title						Manchester Oxford Road CCTV Renewals						Drawing Title						Manchester Oxford Road VSS Datasheet						Designed C. Merrick / L. Pelling / G. Kilding			Checked R. Singleton			Approved N. Loveitt			Responsible Engineer R. Burrows			Date 13/05/2022			Drawn C. Merrick			Scale N.T.S.			Sheet 19 of 27			Document Reference: S02002.ENGR.DRGS.627680					Issue Number 2
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Maunfacturer		Hanwha		Maunfacturer		Hanwha																																																																																																																											
Model No		XNV 6080		Model No		XNV 6080																																																																																																																											
Camera Weight		1kg		Camera Weight		1kg																																																																																																																											
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm																																																																																																																											
Cable Type		CAT6		Cable Type		CAT6																																																																																																																											
Cable Length		58m		Cable Length		20m																																																																																																																											
New or Existing Cable		New		New or Existing Cable		New																																																																																																																											
Cable From		MCO-CC2-SWT01, Port 10		Cable From		MCO-CC3-SWT-001, Port 1																																																																																																																											
Cable To		MCO-CAM-035 Junction box (Backbox)		Cable To		MCO-CAM-036 Junction box (New JB)																																																																																																																											
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.																																																																																																																											
Proposed Mounting Type		Mount to shelter timber cladding via SBV-158G (Backbox), replace existing small camera like for like. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Rendered wall mount via HMP01 (Mounting plate). Camera mount will use M8 fixings which are highlighted in the fixing arrangement section (244904)																																																																																																																											
Camera Height [m]		2.088m		Camera Height [mm]		2.5m																																																																																																																											
Distance from PE [m]		N/A		Distance from PE [m]		2.560m																																																																																																																											
FoV Focal Length Setting		3mm - Identify/ Recognise - 58.86 deg		FoV Focal Length Setting		8mm - Recognise - 22.98 deg																																																																																																																											
Exisiting Structure Type		Timber Shelter Cladding		Exisiting Structure Type		Brickwall (Rendered)																																																																																																																											
Mounting Plate		N/A		Mounting Plate		HMP01																																																																																																																											
Bracketry Type		BB/6080		Bracketry Type		HMP01/6080																																																																																																																											
Installation		WM01/C04a		Installation		WM01/C01b																																																																																																																											
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C01b - refer to 244904																																																																																																																											
installation Method		Wood screws and washers		installation Method		Rods and Chemfix (C01b)																																																																																																																											
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour																																																																																																																											
Install Narrative		Fix new camera to SBV-158G (Backbox) and mount directly to timber canopy in place of existing camera. Backbox will act as JB and reduce the amount of fixings in to the wallM6 wood screws required		Install Narrative		Fix camera to HMP01 (Mounting plate) and mount directly to wall in a vertical position so that the JB is fixed above the camera.																																																																																																																											
Notes:		Final lens focal length and FoV to be optimised at commissioning. . DORI Requirement: Recognise required whole of Waiting Room Risk:		Notes:		DORI Requirement: Recognise on Platform Required at 10 Metres Risk: Working at Height. Working near platform edge																																																																																																																											

Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-037		New Camera ID		MCO-CAM-038							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Lift on Platform 2 & 3		Location		Platform 2 & 3 Lift Building							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV-6012 Fixed Micro Dome 2.4mm (Type 6)		Model No		XNV 6080							
Camera Weight		295g		Camera Weight		1kg							
Camera Lens		Built-in 2.4mm fixed lens		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		30m to lift JB		Cable Length		16m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC3-SWT01, Port 2		Cable From		MCO-CC3-SWT-001, Port 3							
Cable To		MCO-CAM-037 Junction box (New JB)		Cable To		MCO-CAM-038 Junction box (New JB)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Method of installation to lift car to be agreed with Stannah Installation be assisted by Stannah the lift maintainers. Attendance of Stannah will be agreed/arranged with Northern Trains & Network Rail		Proposed Mounting Type		Camera ceiling mounted on HMP01 (Mounting plate) and fixed via M8 rods and chemfix.							
Camera Height [m]		2.203m		Camera Height [mm]		3.919m							
Distance from PE [m]		N/A		Distance from PE [m]		1.525m							
FoV Focal Length Setting		2mm - Identify - 71.20 deg		FoV Focal Length Setting		8mm- Recognise - 22.98 deg							
Exisiting Structure Type		Lift ceiling		Exisiting Structure Type		Brickwall (Rendered)							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		N/A		Bracketry Type		HMP01/6080							
Installation		Direct mount to lift ceiling		Installation		CM01/C01b							
Fixing Arrangement		Camera to be fixed by Stannah lift maintainers		Fixing Arrangement		C01c - refer to 244904							
Installation Method		C08a, Direct mount to ceiling		Installation Method		Rods and Chemfix (C01c)							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		camera to mount directly to lift ceiling. Cable run and camera mount for lift to be completed by lift maintainer. We will be responsible for FoV for the camera.		Install Narrative		Camera ceiling mounted on HMP01 (Mounting plate) and fixed via M8 threaded rods and chemfix. JB attached to HMP01 using relevant fixing detailed in the catalogue							
Notes:				Notes:									
Fixed Lens (2.4mm), camera should be aligned to obtain maximum possible coverage within lift car .				Final lens focal length and FoV to be optimised at commissioning.									
DORI Requirement: Lift Car - Whole Space - Identification Required				DORI Requirement: Recognise on Platform Required at 10 Metres									
Stannah lift maintainers needed for installation and commision				Risk: Working at Height. Working near platform edge. Due to camera being positioned so close to platform edge line blocks will be required for install and any future maintenance. Working near platform edge Possible isolation needed for installation if enroaching within 2.75m of OLE.									
Confirmation on route required, preferred option to run cable to subway, lift maintainers to pull cable through lift shaft to lift motor room JB.													

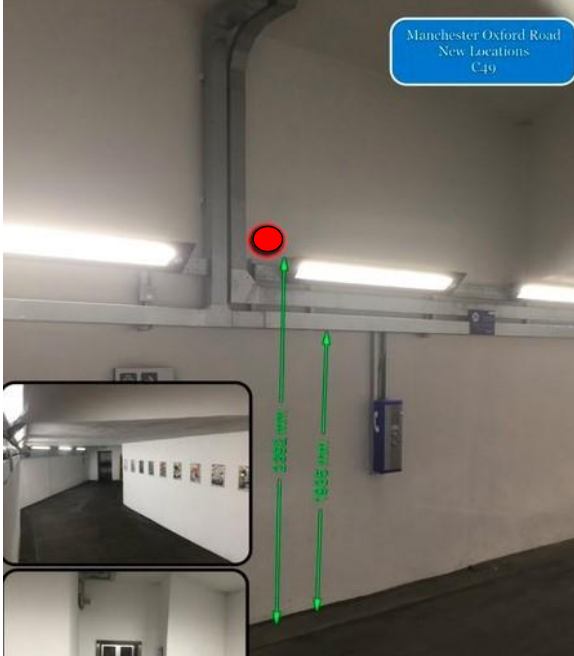
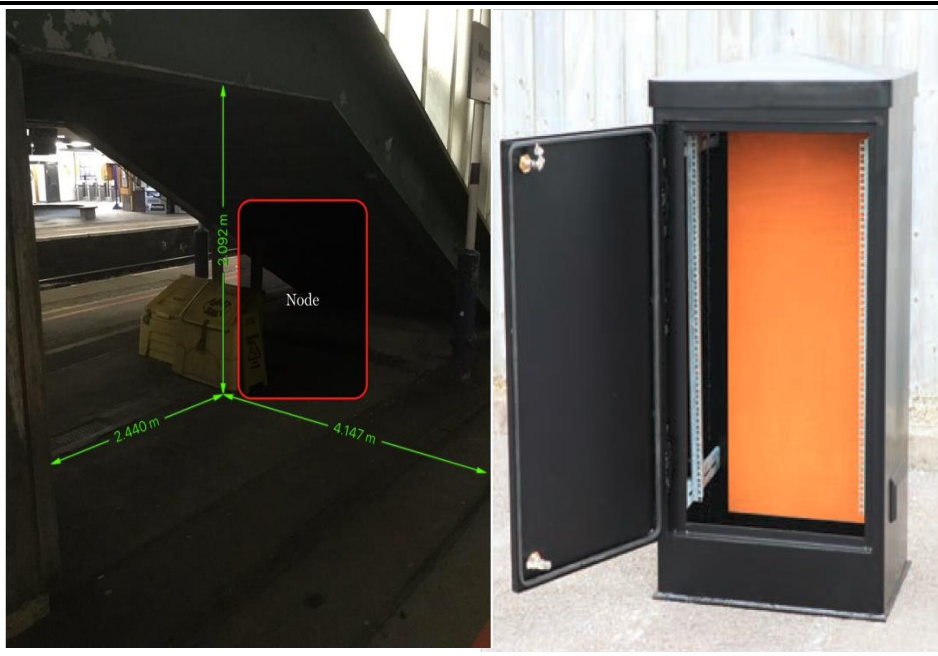
Camera Location		Camera view		Camera Location		Camera View		Notes:													
New Camera ID		MCO-CAM-039		New Camera ID		MCO-CAM-040															
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A															
Location		Platform 1 footbridge		Location		Footbridge															
Maunfacturer		Hanwha		Maunfacturer		Hanwha															
Model No		XNV 6080		Model No		XNV 6080															
Camera Weight		1kg		Camera Weight		1kg															
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm															
Cable Type		CAT6		Cable Type		CAT6															
Cable Length		74m		Cable Length		80m															
New or Existing Cable		New		New or Existing Cable		New															
Cable From		MCO-CC2-SWT01, Port 11		Cable From		MCO-CC2-SWT01, Port 12															
Cable To		MCO-CAM-039 Junction box (New JB)		Cable To		MCO-CAM-038 Junction box (Backbox)															
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will be punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.															
Proposed Mounting Type		Internal beam clamp via uni-strut. Same mount as camera 41. Refer to S02002.ENGR.DRGS.629001		Proposed Mounting Type		Replacing like for like, Ceiling mount via SBV-158G (Backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)															
Camera Height [m]		3.55m		Camera Height [mm]		2.257m															
Distance from PE [m]		1.973m		Distance from PE [m]		N/A															
FoV Focal Length Setting		6mm - Recognise/ Observe - 30.16 deg		FoV Focal Length Setting		5mm - Recognise - 35.91 deg															
Existing Structure Type		Steel Beam on footbridge		Exisiting Structure Type		Timber ceiling cladding															
Mounting Plate		N/A		Mounting Plate		N/A															
Bracketry Type		BB/6080		Bracketry Type		BB/6080															
Installation		internal beam Clamp		Installation		CM01/C04a															
Fixing Arrangement		Refer to drawing S02002.ENGR.DRGS.629001		Fixing Arrangement		C04a - refer to 244904															
installation Method		Clamped via P3087 beam clamp		instillation Method		Wood screws and washers															
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour															
Install Narrative		Fix 6080 camera to SBV-158G (backbox), then Mount internal beam clamps on to angled beam and space them enough to mount camera on to Uni-strut. M6 fixings required		Install Narrative		mounted directly to timber ceiling cladding via SBV-158G (Backbox), replace old camera for new. M6 wood screws required. Backbox will act as JB and reduce the amount of fixings in to the wall															
Notes:		Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Recognise on Platform Required at 10 Metres Risk: Working at Height. Working near platform edge Line blocks or possible isolation required for installation if enroaching within 2.75m of OLE. This would apply to any future maintenance.		Notes:		Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Observe to Recognise - Whole Staircase Risk: Working at Height. Working near stairs		Alliance Partner/Contractor talent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888 Project TitleManchester Oxford Road CCTV Renewals Drawing TitleManchester Oxford Road VSS Datasheet <table><tr><td>DesignedC. Merrick / L. Pelling / G. Kilding</td><td>CheckedR. Singleton</td></tr><tr><td>ApprovedN. Loveitt</td><td>Responsible EngineerR. Burrows</td></tr><tr><td>Date13/05/2022</td><td>DrawnC. Merrick</td></tr><tr><td>ScaleN.T.S.</td><td>Sheet21 of 27</td></tr></table> Document Reference:S02002.ENGR.DRGS.627680Issue Number2						DesignedC. Merrick / L. Pelling / G. Kilding	CheckedR. Singleton	ApprovedN. Loveitt	Responsible EngineerR. Burrows	Date13/05/2022	DrawnC. Merrick	ScaleN.T.S.	Sheet21 of 27
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ApprovedN. Loveitt	Responsible EngineerR. Burrows																				
Date13/05/2022	DrawnC. Merrick																				
ScaleN.T.S.	Sheet21 of 27																				

Camera Location	Camera view	Camera Location	Camera View
Total cable length = 73.5m C39 C41 R2 Install new 25mm conduit clamped to steel girder under footidge stairs		Platforms 2 - 5 Tickets	
New Camera ID	MCO-CAM-041	New Camera ID	MCO-CAM-042
ASP Proposed Camera ID	N/A	ASP Proposed Camera ID	N/A
Location	Platform 1 footbridge	Location	Platform 1, bottom of stairs
Maunfacturer	Hanwha	Maunfacturer	Hanwha
Model No	XNV 6080	Model No	XNV 6080
Camera Weight	1kg	Camera Weight	1kg
Camera Lens	2.8mm - 12mm	Camera Lens	2.8mm - 12mm
Cable Type	CAT6	Cable Type	CAT6
Cable Length	74m	Cable Length	64m
New or Existing Cable	New	New or Existing Cable	New
Cable From	MCO-CC2-SWT01, Port 13	Cable From	MCO-CC2-SWT01, Port 13
Cable To	MCO-CAM-041 Junction box (Backbox)	Cable To	MCO-CAM-042 Junction box (Backbox)
Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.	Cable Termination	Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.
Proposed Mounting Type	Internal beam clamp via uni-strut. Same mount as camera 39. Refer to drawing S02002.ENGR.DRGS.629001	Proposed Mounting Type	Timber wall mount in to facia via SBV-158G (Backbox). Replace like for like. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)
Camera Height [m]	3.75m	Camera Height [mm]	2.620m
Distance from PE [m]	1.973m	Distance from PE [m]	1.729m
FoV Focal Length Setting	5mm - Recognise - 35.91 deg	FoV Focal Length Setting	6mm - Recognise - 30.16 deg
Existing Structure Type	Steel Beam on footbridge	Exisiting Structure Type	Timber facia Board (Presumed)
Mounting Plate	N/A	Mounting Plate	N/A
Bracketry Type	BB/6080	Bracketry Type	BB/6080
Installation	internal beam Clamp	Installation	WM01/C04a
Fixing Arrangement	Refer to drawing S02002.ENGR.DRGS.629001	Fixing Arrangement	C04a - Refer to 244904
Installation Method	Clamped via P3087 beam clamp	Installation Method	Wood Screws and washers
Bracket Colour	Standard Camera Colour	Bracket Colour	Standard Camera Colour
Install Narrative	Fix 6080 camera to SBV-158G (backbox), then Mount internal beam clamps on to angled beam and space them enough to mount camera on to Uni-strut. M6 fixings required	Install Narrative	Fix new camera to SBV-158G (backbox) and direct mount to timber facia. Replace camera like for like. M6 wood screws required for fixing to timber facia. Backbox will act as JB and reduce the amount of fixings in to the wall. Install method is based on a timber facia, if facia is metal different fixings will be required. Refer to 244904 drawing.
Notes:	Final lens focal length and FoV to be optimisedat commissioning. DORI Requirement: Recognise on Platform Required at 10 Metres Risk: Working at Height. Working near platform edge Line blocks or possible isolation required for installation if enroaching within 2.75m of OLE. This would apply to any future maintenance.	Notes:	Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Recognise on Platform Required at 10 Metres Risk: Working at Height. Working near platform edge Possible isolation needed for installation
		talent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888 Project Title Manchester Oxford Road CCTV Renewals Drawing Title Manchester Oxford Road VSS Datasheet Designed C. Merrick / L. Pelling / G. Kilding Checked R. Singleton Approved N. Loveitt Responsible Engineer R. Burrows Date 13/05/2022 Drawn C. Merrick Scale N.T.S. Sheet 22 of 27 Document Reference: S02002.ENGR.DRGS.627680 Issue Number 2	

Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-043		New Camera ID		MCO-CAM-044							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Platform 1 Shelter		Location		Platform 1 Shelter							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV 6080		Model No		XNV 6080							
Camera Weight		1kg		Camera Weight		1kg							
Camera Lens		2.8mm - 12mm		Camera Lens		2.8mm - 12mm							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		81m		Cable Length		81m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC2-SWT01, Port 14		Cable From		MCO-CC2-SWT01, Port 15							
Cable To		MCO-CAM-043 Junction box (Backbox)		Cable To		MCO-CAM-044 Junction box (New JB)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Mount to shelter cladding just before steel section via SBV-158G (backbox). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Mount directly to timber cladding in the shelter. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		2.319m		Camera Height [mm]		2.319m							
Distance from PE [m]		1.755m		Distance from PE [m]		1.755m							
FoV Focal Length Setting		10mm - Recognise - 18.63 deg		FoV Focal Length Setting		4mm - Recognise - 44.60 deg							
Exisiting Structure Type		Timber shelter cladding		Exisiting Structure Type		Timber ceiling cladding							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		BB/6080		Bracketry Type		6080/direct mount (JB adjacent to camera)							
Installation		WM01/C04a		Installation		CM01/C04a							
Fixing Arrangement		C04a - Refer to 244904		Fixing Arrangement		C04a - refer to 244904							
installation Method		Wood screws and washers		installation Method		Wood screws and washers							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Fix new camera to SBV-158G (backbox) and direct mount to timber cladding. M6 wood screws required for fixing to timber cladding. Backbox will act as JB and reduce the amount of fixings in to the wall.		Install Narrative		mounted directly to timber ceiling cladding via direct mount. M6 wood screws required.							
Notes:		Final lens focal length and FoV to be optimised at commissioning. New civils required from shelter to stairs. DORI Requirement: Recognise on Platform Required at 10 Metres Risk: Working at Height. Working near platform edge Line block required for civils work Height of proposed camera limited by the height of the shelter		Notes:		Final lens focal length and FoV to be optimised at commissioning. New civils required from shelter to stairs. DORI Requirement: Recognise required whole of Waiting Shelter Risk: Working at Height. Working near platform edge Line block required for civils work Height of proposed camera limited by the height of the shelter							
Alliance Partner/Contractor		telent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888		Project Title		Manchester Oxford Road CCTV Renewals							
Drawing Title		Manchester Oxford Road VSS Datasheet		Designed		Checked							
C. Merrick / L. Pelling / G. Kilding		R. Singleton		Approved		Responsible Engineer							
N. Loveitt		R. Burrows		Date		Drawn							
13/05/2022		C. Merrick		Scale		Sheet							
N.T.S.		23 of 27		Document Reference:		Issue Number							
S02002.ENGR.DRGS.627680		2											

Camera Location		Camera view		Camera Location		Camera View		Notes:					
													
New Camera ID		MCO-CAM-045		New Camera ID		MCO-CAM-046							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Platform 2/3		Location		Platform 2/3							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV 6080		Model No		TNO-4030T Thermal Imager (13mm) (Type 5)							
Camera Weight		1kg		Camera Weight		3.124 Kg							
Camera Lens		2.8mm - 12mm		Camera Lens		13mm Fixed							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		40m		Cable Length		25m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC3-SWT01, Port 4		Cable From		MCO-CC4-SWT01, Port 5							
Cable To		MCO-CAM-045 Junction box (Backbox)		Cable To		MCO-CAM-046 Junction box (New JB)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Proposal to replace existing lighting fixture head (on car stop 5-6 column) with new ASD LED head unit. Camera will mount to the new headunit on PLT 3 side of lighting fixture.		Proposed Mounting Type		Proposal to replace existing lighting fixture head (near OLE structure) with new ASD LED head unit. Camera will mount to the new headunit on PLT 3 side of lighting fixture.							
Camera Height [m]		5.30m		Camera Height [mm]		5.30m							
Distance from PE [m]		1.7m		Distance from PE [m]		1.7m							
FoV Focal Length Setting		6mm - Observe/Recognise - 30.16 deg		FoV Focal Length Setting		13mm - Recognise - 36.40 deg							
Exisiting Structure Type		Lighting column/fixture		Exisiting Structure Type		Lighting column/fixture							
Mounting Plate		N/A		Mounting Plate		N/A							
Bracketry Type		direct mount/6080		Bracketry Type		direct mount/4030							
Installation		Direct mount PLT 2 side		Installation		Direct mount PLT 3 side							
Fixing Arrangement		Refer to manufacturer recommendations		Fixing Arrangement		Refer to manufacturer recommendations							
Installation Method		Refer to manufacturer recommendations		Installation Method		Refer to manufacturer recommendations							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Column will need to be dropped to install new equipment. Once column has been dropped an electrician will be required to isolate power before the old LED lighting fixture is to be removed. Once removed the new ASD head unit will be fixed in situe. The difficulty will be getting the right angle for the cameras FoV. JB to be shared with CAM-046 inside bottom section of column.		Install Narrative		Column will need to be dropped to install new equipment. Once column has been dropped an electrician will be required to isolate power before the old LED lighting fixture is to be removed. Once removed the new ASD head unit will be fixed in situe. The difficulty will be getting the right angle for the cameras FoV. JB to be installed inside bottom section of column.							
Notes:				Notes:									
Final lens focal length and FoV to be optimised at commissioning.				Final lens focal length and FoV to be optimised at commissioning.									
DORI Requirement: Observe to Recognise - Platform End				DORI Requirement: Thermal Image									
Risk: Working at Height. Working near platform edge Line block required for installation the light fixture may not accommodate the camera types, though we should get an example to trial. civils works will be required to run cables these cameras				Risk: Working at Height. Working near platform edge Line block required for installation the light fixture may not accommodate the camera types, though we should get an example to trial. civils works will be required to run cables these cameras.									

Camera Location		Camera view		Camera Location		Camera View		Notes:					
New Camera ID		MCO-CAM-047		New Camera ID		MCO-CAM-048							
ASP Proposed Camera ID		N/A		ASP Proposed Camera ID		N/A							
Location		Platform 4		Location		Subway							
Maunfacturer		Hanwha		Maunfacturer		Hanwha							
Model No		XNV 6080		Model No		PNM-7002VD Dual Sensor Fixed Camera (Type 4)							
Camera Weight		1kg		Camera Weight		1.25 Kg							
Camera Lens		2.8mm - 12mm		Camera Lens		SLA-2M2402D(2MP 2.4mm) SLA-2M2802D(2MP 2.8mm) SLA-2M3602D(2MP 3.6mm) - Propose to use SLA-2M6002D(2MP 6.0mm)							
Cable Type		CAT6		Cable Type		CAT6							
Cable Length		13m		Cable Length		55m							
New or Existing Cable		New		New or Existing Cable		New							
Cable From		MCO-CC1-SWT02, Port 13		Cable From		MCO-CC1-SWT02, Port 13							
Cable To		MCO-CAM-047 Junction box (Backbox)		Cable To		MCO-CAM-048 Junction box (New JB)							
Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.		Cable Termination		Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.							
Proposed Mounting Type		Replacing existing camera Like for Like via SBV-158G (Backbox). Direct mount on timber canopy column. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)		Proposed Mounting Type		Ceiling Mount, via HMP01 (mounting plate). JB on show next to camera. Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)							
Camera Height [m]		3.40m		Camera Height [mm]		2.372m							
Distance from PE [m]		2.002m		Distance from PE [m]		N/A							
FoV Focal Length Setting		5mm - Recognise - 35.91 deg		FoV Focal Length Setting		4mm - Recognise - 71.20 deg							
Exisiting Structure Type		Timber canopy column		Exisiting Structure Type		Brickwall (Rendered)							
Mounting Plate		N/A		Mounting Plate		HMP01							
Bracketry Type		BB/6080		Bracketry Type		HMP01/7002							
Installation		WM01/C04a		Installation		WM01/C01b							
Fixing Arrangement		C04a - refer to 244904		Fixing Arrangement		C01b - Refer to 244904							
Installation Method		Wood screws and washers		Installation Method		Rods and Chemfix (C01b)							
Bracket Colour		Standard Camera Colour		Bracket Colour		Standard Camera Colour							
Install Narrative		Fix new camera to SBV-158G (Backbox) and mount directly to timber canopy in place of existing camera. M6 wood screws required. Backbox will act as JB and reduce the amount of fixings in to the wall.		Install Narrative		Fix camera and JB to HMP01 (mounting plate). Mount plate directly to ceiling using WM01 drawing and reference to C01b for fixing option. Threaded rod and chemfix to mount plate.							
Notes:		Final lens focal length and FoV to be optimised at commissioning.		Notes:		Final lens focal length and FoV to be optimised at commissioning.							
DORI Requirement: Recognise on Platform Required at 10 Metres				DORI Requirement: Recognise - Subway Whole Length									
Risk: Working at Height. Working near platform edge				Risk: Working at Height. Rendering in Poor condition									

Camera Location		Camera view		Equipment Detail		Notes:																																																																																																																																																																																																																																																																	
																																																																																																																																																																																																																																																																							
New Camera ID		MCO-CAM-049		New Node ID								MCO-CAB-CC2																																																																																																																																																																																																																																																											
ASP Proposed Camera ID		N/A		Old Node ID								N/A																																																																																																																																																																																																																																																											
Location		Subway		Location								Under Footbridge Stairs to P2&3																																																																																																																																																																																																																																																											
Maunfacturer		Hanwha		Maunfacturer		AEC		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>13/05/22</td><td>ISSUED FOR APPROVAL</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>1</td><td>05/05/22</td><td>DRAFT FIRST ISSUE</td><td>CM</td><td>RS</td><td>NL</td></tr><tr><td>Rev</td><td>Date</td><td>Issue Status/ Revisions</td><td>Drawn</td><td>Chkd</td><td>Appr</td></tr><tr><td colspan="3">telent Project Manager: Ash Ghandi</td><td colspan="3">Northern Project Manager: Ian Hutton</td></tr><tr><td colspan="6">Client</td><td colspan="6" rowspan="12">  talent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888 <table><tr><td colspan="2">Project Title</td><td colspan="2">Manchester Oxford Road CCTV Renewals</td></tr><tr><td colspan="2">Drawing Title</td><td colspan="2">Manchester Oxford Road VSS Datasheet</td></tr><tr><td>Designed</td><td>C. Merrick / L. Pelling / G. Kilding</td><td>Checked</td><td>R. Singleton</td></tr><tr><td>Approved</td><td>N. Loveitt</td><td>Responsible Engineer</td><td>R. Burrows</td></tr><tr><td>Date</td><td>13/05/2022</td><td>Drawn</td><td>C. Merrick</td></tr><tr><td>Scale</td><td>N.T.S.</td><td>Sheet</td><td>26 of 27</td></tr><tr><td colspan="2">Document Reference:</td><td colspan="2">Issue Number</td></tr><tr><td colspan="2">S02002.ENGR.DRGS.627680</td><td colspan="2">2</td></tr></table></td></tr><tr><td colspan="2">Model No</td><td colspan="2">PNM-7002VD Dual Sensor Fixed Camera (Type 4)</td><td colspan="2">Model No</td><td colspan="2">AEC-90-65-65</td></tr><tr><td colspan="2">Camera Weight</td><td colspan="2">1.25 Kg</td><td colspan="2">Node Weight</td><td colspan="2">Approx 132-154kg</td></tr><tr><td colspan="2">Camera Lens</td><td colspan="2">SLA-2M2402D(2MP 2.4mm) SLA-2M2802D(2MP 2.8mm) SLA-2M3602D(2MP 3.6mm) - Propose to use SLA-2M6002D(2MP 6.0mm)</td><td colspan="2">Switch ID</td><td colspan="2">MCO-CC2-SWT-01</td></tr><tr><td colspan="2">Cable Type</td><td colspan="2">CAT6</td><td colspan="2">Cable Type</td><td colspan="2">Fibre</td></tr><tr><td colspan="2">Cable Length</td><td colspan="2">75m</td><td colspan="2">Cable Length</td><td colspan="2">N/A</td></tr><tr><td colspan="2">New or Existing Cable</td><td colspan="2">New</td><td colspan="2">New or Existing Cable</td><td colspan="2">New</td></tr><tr><td colspan="2">Cable From</td><td colspan="2">MCO-CC1-SWT02, Port 15</td><td colspan="2">Cable From</td><td colspan="2">MCO-CAB-CC1</td></tr><tr><td colspan="2">Cable To</td><td colspan="2">MCO-CAM-045 Junction box (New JB)</td><td colspan="2">Cable To</td><td colspan="2">MCO-CAB-CC2</td></tr><tr><td colspan="2">Cable Termination</td><td colspan="2">Cables to be terminated to T568B standard. On patch panel cables will will punched down (IDC -Insulation displacement connector). Within the junction box cable will be terminated in to an RJ45 connector. Cable will be connected to RJ45 thru connector, with a patch cable making the final connection to the camera.</td><td colspan="2">Cable Termination</td><td colspan="2">LC</td></tr><tr><td colspan="2">Proposed Mounting Type</td><td colspan="2">Wall mount, via HMP01 (mounting plate). Camera mount will use appropriate fixings which are highlighted in the fixing arrangement section (244904)</td><td colspan="2">Proposed Mounting Type</td><td colspan="2">Floor Mount</td></tr><tr><td colspan="2">Camera Height [m]</td><td colspan="2">2.329m</td><td colspan="2">Height to Beam [mm]</td><td colspan="2">2092mm</td></tr><tr><td colspan="2">Distance from PE [m]</td><td colspan="2">N/A</td><td colspan="2">Distance from PE [m]</td><td colspan="2">4.147m</td></tr><tr><td colspan="2">FoV Focal Length Setting</td><td colspan="2">4mm - Recognise - 71.20 deg</td><td colspan="2">Lens AFFL</td><td colspan="2">N/A</td></tr><tr><td colspan="2">Exisiting Structure Type</td><td colspan="2">Brickwall (Rendered)</td><td colspan="2">Exisiting Structure Type</td><td colspan="2">Tarmac/concrete</td></tr><tr><td colspan="2">Mounting Plate</td><td colspan="2">HMP01</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">Bracketry Type</td><td colspan="2">HMP01/7002</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">Installation</td><td colspan="2">WM01/C01b</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">Fixing Arrangement</td><td colspan="2">C01b - Refer to 244904</td><td colspan="2">Mounting Option</td><td colspan="2">Floor Mount/AEC 95*65*65/</td></tr><tr><td colspan="2">Installation Method</td><td colspan="2">Rods and Chemfix (C01b)</td><td colspan="2">Fixing Method</td><td colspan="2">Bolted to Concrete base</td></tr><tr><td colspan="2">Bracket Colour</td><td colspan="2">Standard Camera Colour</td><td colspan="2">Bracket Colour</td><td colspan="2">TBC</td></tr><tr><td colspan="2">Install Narrative</td><td colspan="2">Fix camera and JB to HMP01 (mounting plate). Both cam and JB to be mounted on same side of plate due to the fact that JB cannot be hidden. Mount plate directly to ceiling using WM01 drawing and reference to C01b for fixing option.</td><td colspan="2">Install Narrative</td><td colspan="2">New 880mm (W) x 850mm (L) x 300 (D) concrete base to be installed. 2 x 100mm ducting to be incorporated in to concrete install. Refer to drawing S02002.ENGR.DRGS.629006</td></tr><tr><td colspan="2">Notes:</td><td colspan="2">Final lens focal length and FoV to be optimised at commissioning. DORI Requirement: Recognise - Subway Whole Length Risk: Working at Height. Rendering in poor condition</td><td colspan="2">Notes:</td><td colspan="2">Risk: Manual Handling Working near platform edge when manoeuvring</td></tr></table>												2	13/05/22	ISSUED FOR APPROVAL	CM	RS	NL	1	05/05/22	DRAFT FIRST ISSUE	CM	RS	NL	Rev	Date	Issue Status/ Revisions	Drawn	Chkd	Appr	telent Project Manager: Ash Ghandi			Northern Project Manager: Ian Hutton			Client						 talent Technology Services Limited Point 3, Haywood Road, Warwick CV34 5AH, United Kingdom Telephone: +44 (0) 1926 693000 Facsimilie: +44 (0) 1926 693888 <table><tr><td colspan="2">Project Title</td><td colspan="2">Manchester Oxford Road CCTV Renewals</td></tr><tr><td colspan="2">Drawing Title</td><td colspan="2">Manchester Oxford Road VSS Datasheet</td></tr><tr><td>Designed</td><td>C. Merrick / L. Pelling / G. Kilding</td><td>Checked</td><td>R. Singleton</td></tr><tr><td>Approved</td><td>N. Loveitt</td><td>Responsible Engineer</td><td>R. 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