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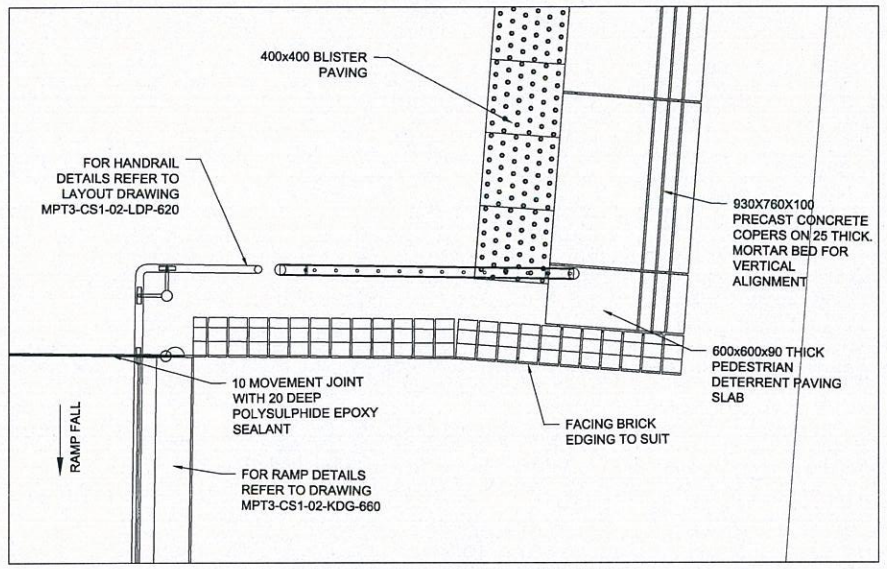
NOTES:

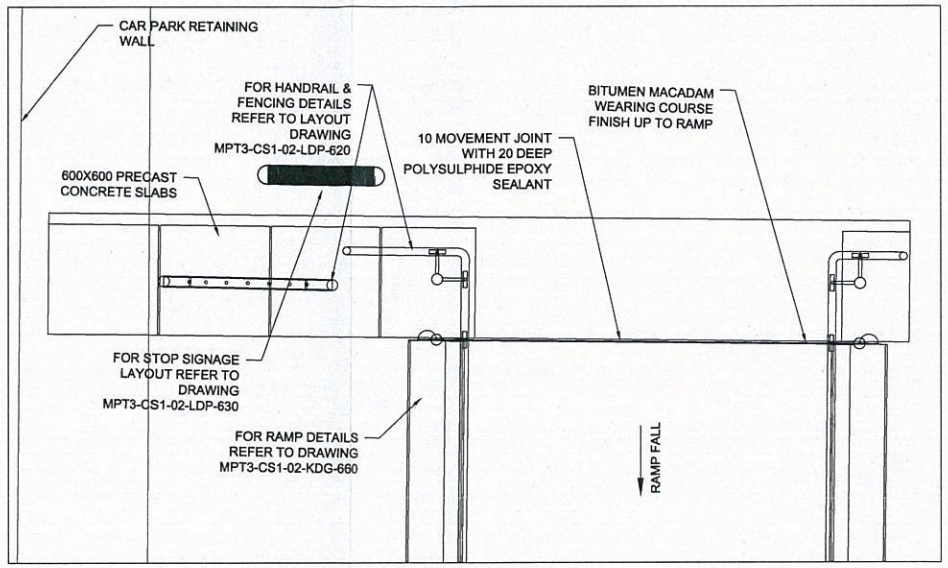
1. DO NOT SCALE FROM DRAWING
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN
3. VERTICAL / HORIZONTAL ALIGNMENT OF THE TRACK TO BE MONITORED DURING CONSTRUCTION OF THE WORKS.
4. ALL MORTAR JOINTS TO BE 10 UNLESS NOTED OTHERWISE
5. FOR LOCATION OF SECTIONS AND PLANS REFER TO DRAWING MPT3-CS1-02-WDG-660
6. FOR STOP SIGNAGE LAYOUT REFER TO DRAWING MPT3-CS1-02-LDP-630

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION - RESIDUAL HAZARD ASSESSMENT

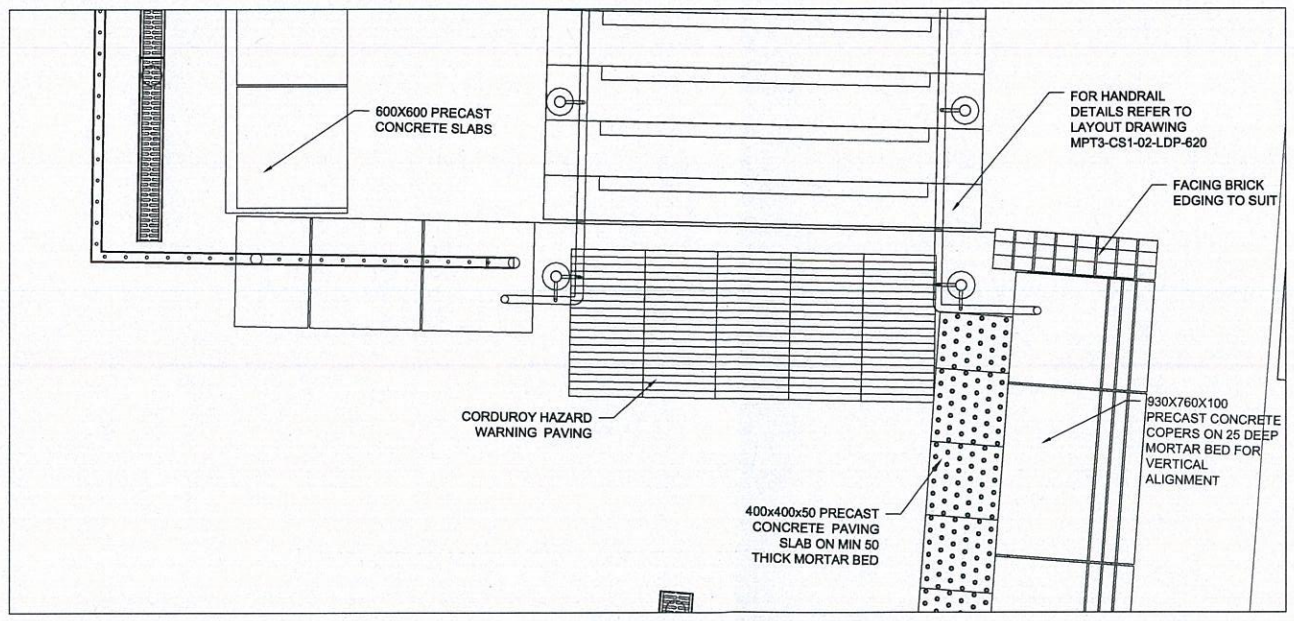
LOCATION	RESIDUAL HAZARD	SITE MEASURES TO ADDRESS HAZARD
CONSTRUCTION		
ROUTE WIDE	CONTAMINATION, INVASIVE SPECIES, PRESENCE OF UXO'S, BURIED SERVICES.	REFER TO MAIN HERRF REGISTER (MPT3-CS0-00-SRG-601) FOR KEY DOCUMENTS OUTLINING EXTENT OF THESE ISSUES.
OPERATION / MAINTENANCE		
	NONE IDENTIFIED	
DECOMMISSIONING / DEMOLITION		
	NONE IDENTIFED	
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT. DOCUMENT REFERENCE OF THE HERRF: MPT3-CS0-00-SRG-601		



OUTBOUND TRACK CROSSING RAMP PLAN
SCALE 1:50 @ A1; 1:100 @A3



INBOUND TRACK CROSSING RAMP PLAN
SCALE 1:50 @ A1; 1:100 @A3



SIDING TRACK CROSSING STEPS PLAN
SCALE 1:50 @ A1; 1:100 @A3

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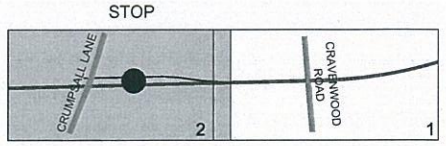
LOCATION PLAN

CRUMPSALL STOP



FOR CONSTRUCTION

REV	DATE	DETAIL	MADE	CHK'D	APP'D
Q01	12.04.17	ISSUED FOR CONSTRUCTION	AE	LH	MW

CLIENT: Transport for Greater Manchester

MPT Laing O'Rourke VolkerRail | Taales

DESIGN:	AE
CAD:	JS
CHK'D:	LH
APP'D:	MW
SCALE:	AS SHOWN
DATE:	12.04.17

MANCHESTER METROLINK
TRAFFORD PARK LINE

TITLE:
CRUMPSALL STOP
PLATFORM END WALLS
GENERAL ARRANGEMENT

DRG No: MPT3-CS1-02-WDG-661

REV: Q01

cm | A1

DRG Path: C:\pwworkingfalecom_eu\pcner1\d0119985\MPT3-CS1-02-WDG-661.dwg User: pcner1 Plot time: 13-04-17 @ 12:25pm

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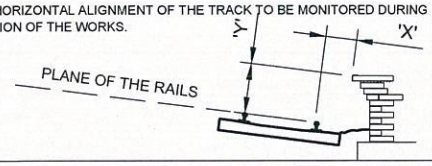
NOTES:

1. To BE READ IN CONJUNCTION WITH MPT3-CS1-02-WDG-660 & MPT3-CS1-02-WDG-661.
2. FOR SECTION LOCATIONS REFER TO DRAWING MPT3-CS1-02-WDG-661
3. DO NOT SCALE FROM DRAWING
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN
5. TO BE READ IN CONJUNCTION WITH PLATFORM WALL DETAILS ; MPT3-CS1-02-KDD-661 FOR TYPICAL SECTIONS AND PLAN DETAILS.
6. SETTING OUT LINES AND DIMENSIONS 'X' AND 'Y' ARE PARALLEL TO, OR AT RIGHT ANGLES TO THE PLANE OF THE RAIL (SEE FIGURE BELOW).
7. VERTICAL / HORIZONTAL ALIGNMENT OF THE TRACK TO BE MONITORED DURING CONSTRUCTION OF THE WORKS.



8. THE RECESS BENEATH THE COPER SHALL BE KEPT CLEAR OF CABLES AND OTHER OBSTRUCTIONS IN ORDER TO PROVIDE EMERGENCY REFUGE.
9. ALL MORTAR JOINTS TO BE 10MM UNLESS NOTED OTHERWISE
10. DESIGN IS BASED ON MINIMUM ALLOWABLE BEARING PRESSURE OF 50KN/M², MINIMUM COEFFICIENT OF SLIDING 0.4 MINIMUM (BETWEEN GROUND AND CONCRETE).
11. ANY NEW INFILL MATERIAL SHALL BE FREE DRAINING 6N OR SP TO SHW, COMPACTED TO 95% OF THE DRY DENSITY.
12. MATERIALS:

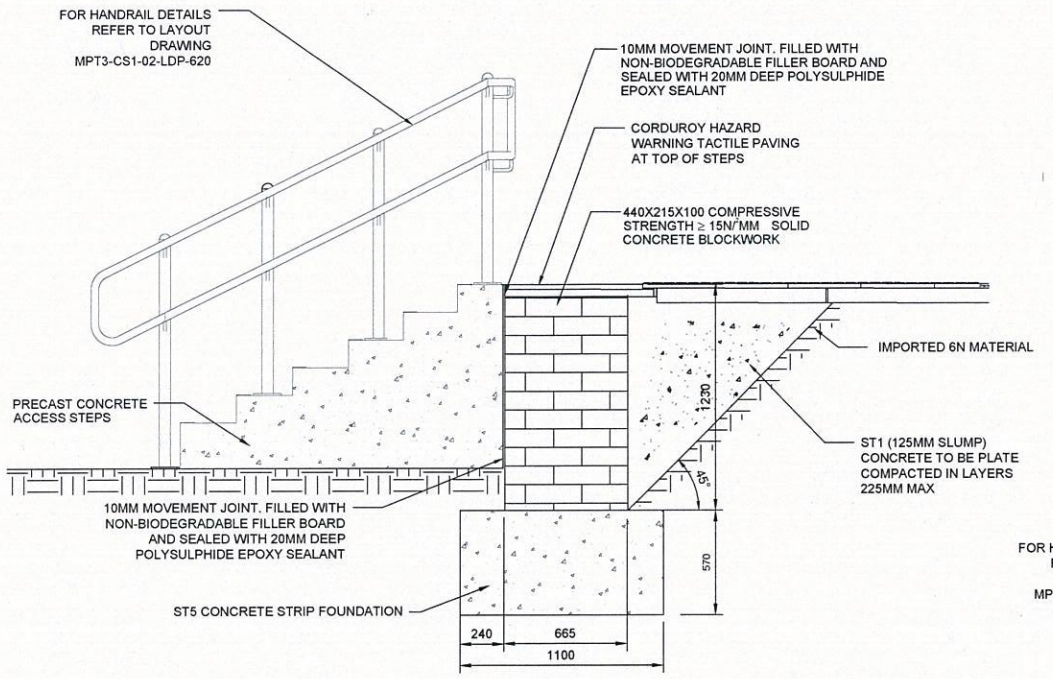
CONCRETE BLOCKS: 440X215X100, DENSITY ≥ 1800KG/M ,
WEIGHT - 20KG/BLOCK, COMPRESSIVE STRENGTH ≥ 15N/MM , USE SRPC BINDER, AGGREGATES TO BS 882 OR BS EN 12620 (SOLID OVERSAIL BLOCKS IF USED: 560X220X220 - WEIGHT=48KG/BLOCK APPROX.)

MORTAR: DESIGNATION (II) TO BS 5628 (1:4 CEMENT : SAND), ACCELERATORS NOT TO BE USED.

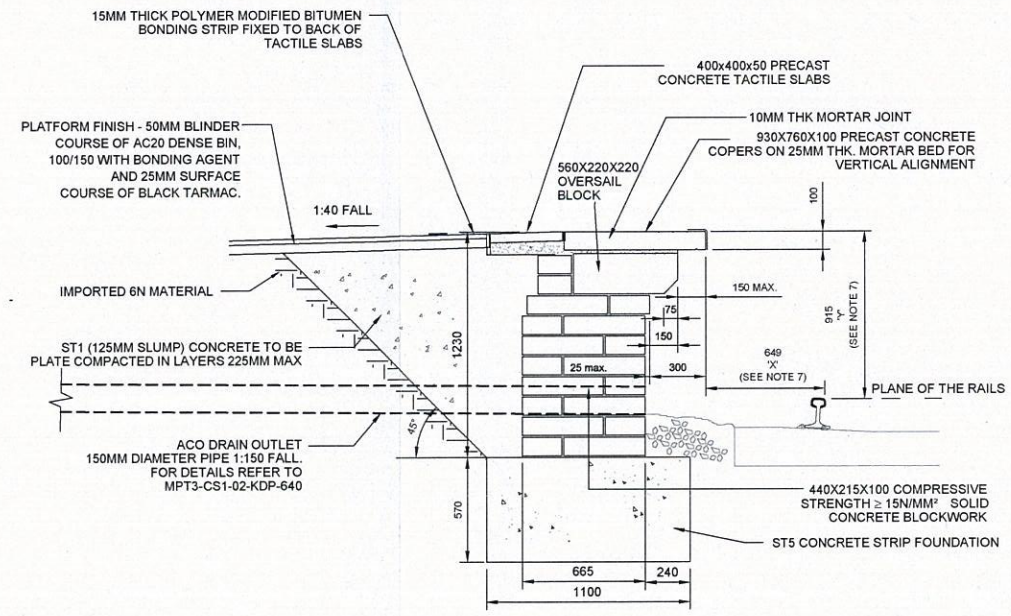
CONCRETE : BS 8500-1: 2002 AND TO CONFORM TO BS EN 206-1: 2000 AND BS 8500-2: 2000.

ALL SPECIFIED MANUFACTURERS MATERIALS NOTED ON THE DRAWINGS SHOULD BE INTERPRETED TO BE "OR SIMILAR APPROVED".

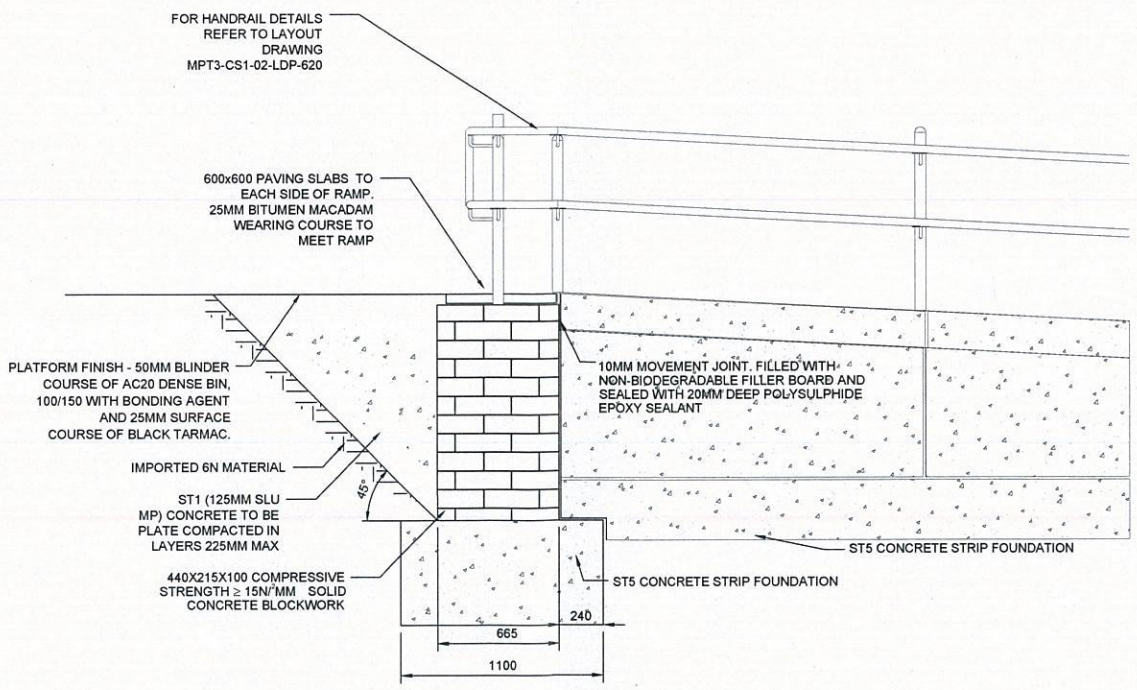
13. ALL HORIZONTAL AND VERTICAL 10MM MOVEMENT JOINTS TO BE FILLED WITH NON-BIODEGRABLE FILLER BOARD WITH A 20MM DEEP POLYSULPHIDE EPOXY SEALANT
14. 10MM MOVEMENT JOINTS TYPICALLY EVERY 12 COPERS. SEALANT TO BE APPLIED TO ALL VERTICAL AND HORIZONTAL SURFACES.



SECTION D-D
PLATFORM END WALL AT STEPS
SCALE 1:20 @ A1; 1:40 @ A3



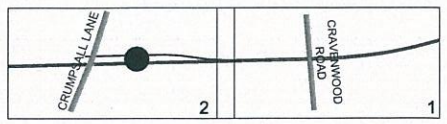
SECTION E-E
PLATFORM END WALL AT STEPS
SCALE 1:20 @ A1; 1:40 @ A3



SECTION F-F
PLATFORM END WALL AT RAMP
SCALE 1:20 @ A1; 1:40 @ A3

LOCATION PLAN

CRUMPSALL STOP



DO NOT USE THIS DRAWING FOR CONSTRUCTION PURPOSES

REV	DATE	DETAIL	MADE	CHK'D	APP'D
D01	23.11.16	DETAILED DESIGN ISSUE	AE	LH	ND

CLIENT: Transport for Greater Manchester

MPT Laing O'Rourke VolkerRail | Thales

DESIGN:	AE
CAD:	AE
CHK'D:	LH
APP'D:	ND
SCALE:	AS SHOWN
DATE:	23.11.16

MANCHESTER METROLINK
TRAFFORD PARK LINE

TITLE: CRUMPSALL STOP PLATFORM WALLS SECTIONS

DRG No' MPT3-CS1-02-WDG-662

REV: D01

cm | A1

DRG Path: C:\pwworking\telecom_eu\goner1\d0119965\MPT3-CS1-02-WDG-662.dwg User: goner1 Plot time: 23-11-16 @ 4:50pm

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NOTES:

1. DO NOT SCALE FROM DRAWING
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN
3. ALL LEVELS ARE METRES ABOVE ORDNANCE DATUM NEWLYN
4. IN ACCORDANCE WITH BS EN 50122-1:2011+A2:2016 CLAUSE 5.2 THE PUBLIC FOOTWAY STANDING SURFACE DOES NOT HAVE PROTECTION BY CLEARANCE TO LIVE PARTS. HOWEVER, IN ACCORDANCE WITH CLAUSE 5.3 AND ANNEX A THE EXISTING PARAPETS PROVIDE PROTECTION BY OBSTACLE. MINIMUM LATERAL CLEARANCE TO LIVE PARTS EXCEEDS 1.45M.
5. MINIMUM HEIGHT ABOVE FOOTWAY OF EXISTING PARAPET AND PROPOSED STEEPLE COPINGS TO BE 1500 IN ACCORDANCE WITH TD 19/06 CLAUSE 4.23
6. PROPOSED STEEPLE COPING PROFILE IN ACCORDANCE WITH BS 6779-4
7. MORTAR: DESIGNATION (II) TO BS 5628 (1:4 CEMENT : SAND), ACCELERATORS NOT TO BE USED.
8. DOWEL BARS TO COMPRISE GRADE B500B OR B500C RIBBED REINFORCEMENT STEEL
9. ENDS OF ANTI-CLIMB PLATES TO BE CHAMFERED AS NECESSARY TO MATCH STRING COURSE
10. CONCRETE STEEPLE COPERS TO BE A MINIMUM OF F2 FINISH
11. PARAPET DIMENSIONS ARE APPROXIMATE AND TO BE CONFIRMED ON SITE

PROPOSED STEEPLE COPER

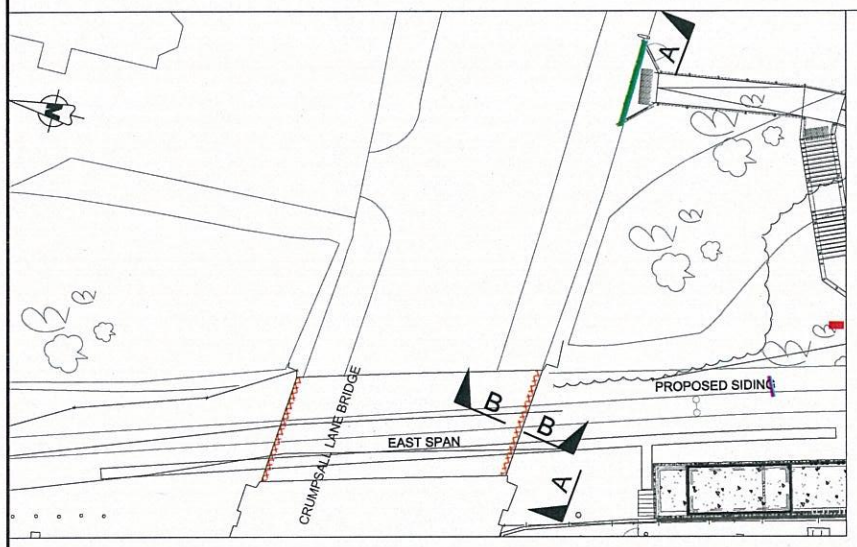
PROPOSED ANTI-CLIMB PLATES

EXTENT OF BRICKWORK TO BE REMOVED

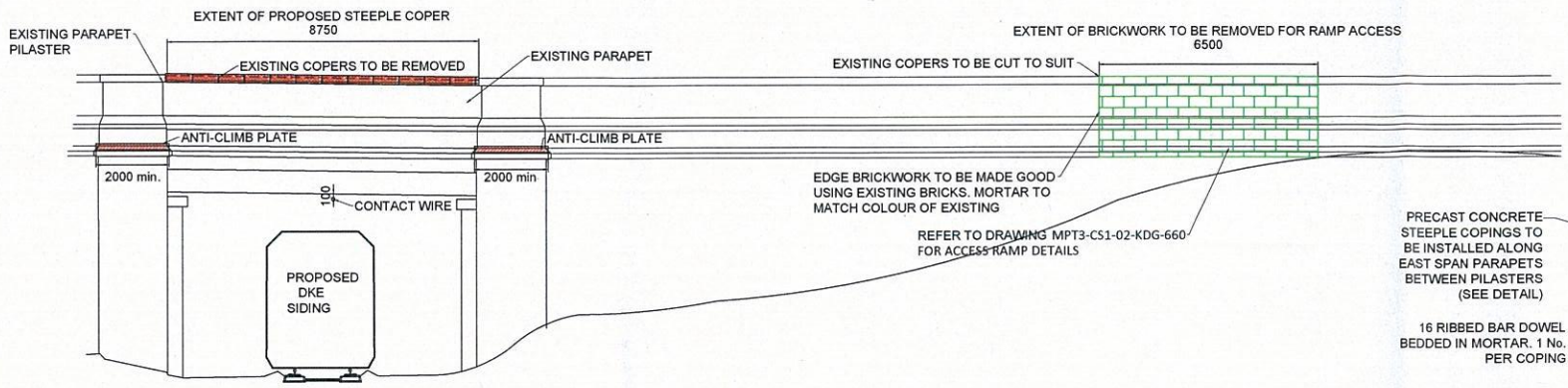
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION - RESIDUAL HAZARD ASSESSMENT

LOCATION	RESIDUAL HAZARD	SITE MEASURES TO ADDRESS HAZARD
CONSTRUCTION		
ROUTE WIDE	CONTAMINATION, INVASIVE SPECIES, PRESENCE OF UXO'S, BURIED SERVICES.	REFER TO MAIN HERRF REGISTER (MPT3-CS0-00-SRG-601) FOR KEY DOCUMENTS OUTLINING EXTENT OF THESE ISSUES.
OPERATION / MAINTENANCE		
	RISK OF ELECTROCUTION DUE TO LOWER THAN STANDARD CLEARANCES FROM OLE TO THE TOP OF THE PARAPET ON CRUMPSALL LANE BRIDGE.	RESIDUAL ELECTROCUTION RISK TO BE MITIGATED BY DE-ENERGISED CONTACT WIRE WHILST WORKS ARE UNDERTAKEN ON CRUMPSALL LANE BRIDGE.
DECOMMISSIONING / DEMOLITION		
	NONE IDENTIFIED	

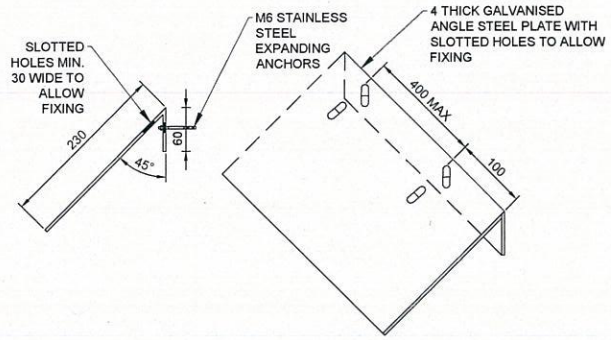
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT. DOCUMENT REFERENCE OF THE HERRF: MPT3-CS0-00-SRG-601



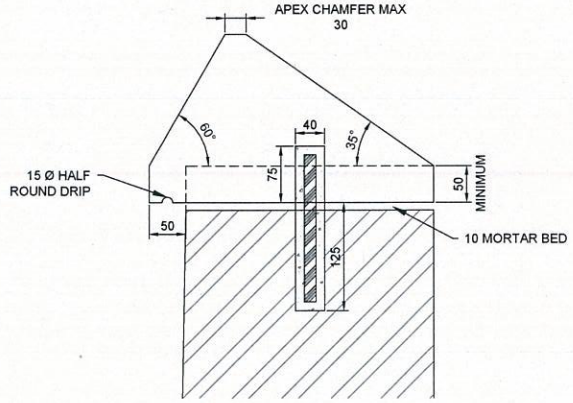
PLAN
SCALE 1:250 @ A1; 1:500 @A3



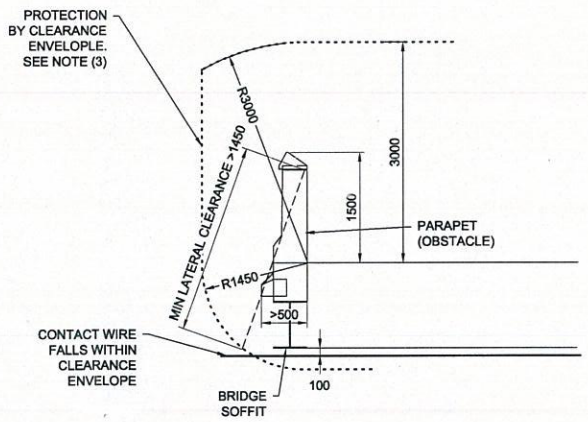
ELEVATION A-A
SCALE 1:50 @ A1; 1:25 @A3



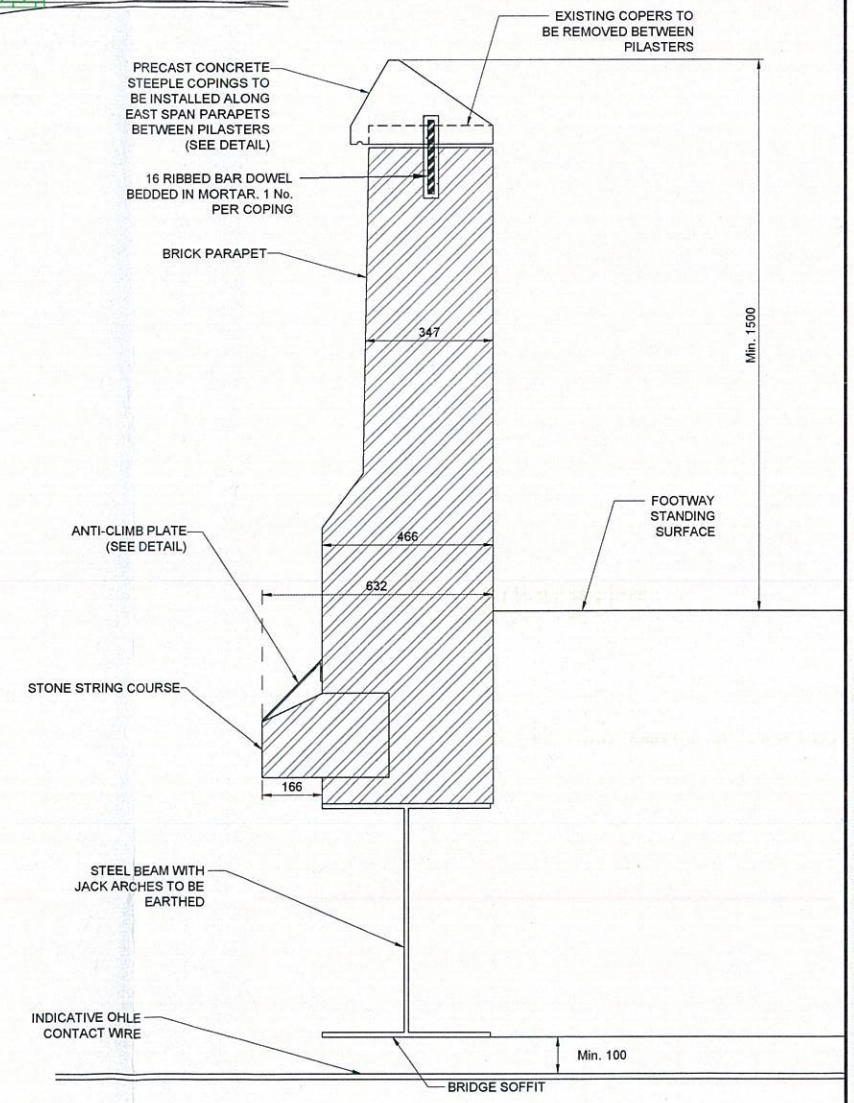
ANTI-CLIMB PLATE DETAIL
SCALE 1:5 @ A1; 1:10 @A3



STEEPLE COPING DETAIL
SCALE 1:5 @ A1; 1:10 @A3



OHLE CLEARANCES AND OBSTACLES
SCALE 1:50 @ A1; 1:100 @A3



SECTION B-B
THROUGH PARAPET WALL
SCALE 1:10 @ A1; 1:20 @A3

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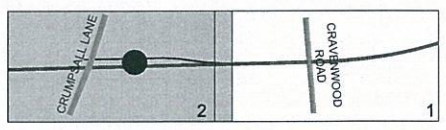
LOCATION PLAN

CRUMPSALL STOP



KEY

FOR CONSTRUCTION

REV	DATE	DETAIL	MADE	CHK'D	APP'D
Q01	12.04.17	ISSUDE FOR CONSTRUCTION	YA	LH	MW

CLIENT: Transport for Greater Manchester

MPT Laing O'Rourke Volker Rail | Thales

DESIGN:	AE
CAD:	YA
CHK'D:	LH
APP'D:	MW
SCALE:	AS SHOWN
DATE:	12.04.17

MANCHESTER METROLINK
TRAFFORD PARK LINE

TITLE:
CRUMPSALL STOP
CRUMPSALL LANE OVERBRIDGE
PROPOSED ANTI-CLIMB MEAUSURES AND ELECTRICAL CLEARANCE

DRG No' MPT3-CS1-02-XDG-610

REV: Q01

cm | A1

DRG Path: C:\pworkingtaecom_eu\goner1\d0119965\MPT3-CS1-02-XDG-610.dwg User: goner1 Plot time: 13-04-17 @ 1:45pm