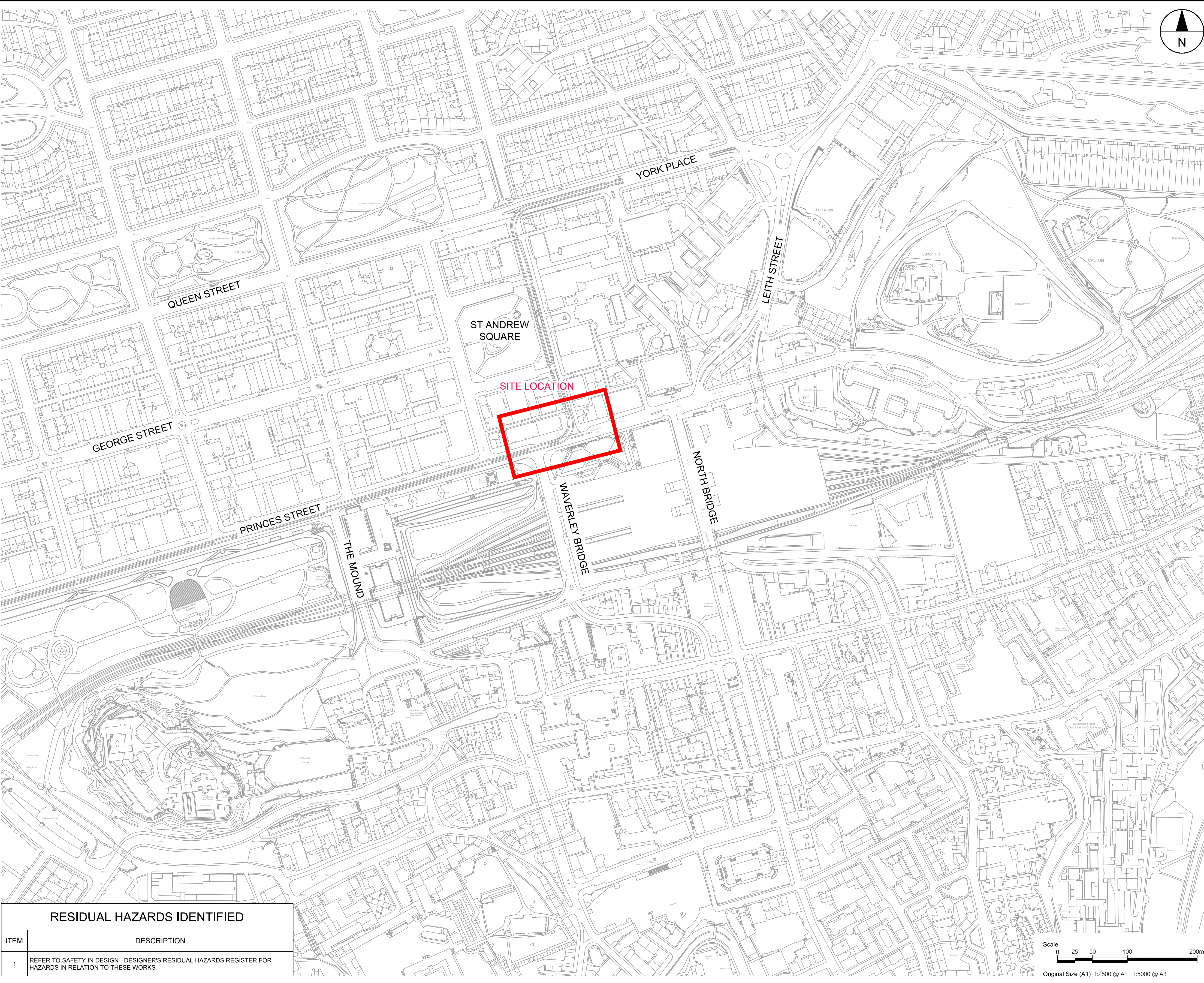
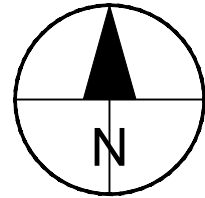


Filename: I:\A\AECOM\NET\COM\1\FSE\WEA\EDINBURGH\KED4\LEGACY\UKED4\FR002\VTTP\PROJECTS\TRAFFIC - SEC WALK CYCLE WP1\03 EXECUT\OWCAD20-SHEETS\4.0 -
TRAM\4.2.160487449-DD-C-WP1-4.2.1-0001 (A3)1.DWG
Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-01

Project Management Initials: Designer: JN Checked: IM Approved: PM ISO A1 594mm x 841mm



RESIDUAL HAZARDS IDENTIFIED	
ITEM	DESCRIPTION
1	REFER TO SAFETY IN DESIGN - DESIGNER'S RESIDUAL HAZARDS REGISTER FOR HAZARDS IN RELATION TO THESE WORKS



Scale
0 25 50 100 200m
Original Size (A1) 1:2500 @ A1 1:5000 @ A3

AECOM

PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT

EDINBURGH
THE CITY OF EDINBURGH COUNCIL

CONSULTANT

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NOTES

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ISSUE/REVISION

AB1	01/05/23	AS-BUILT
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET LOCATION PLAN

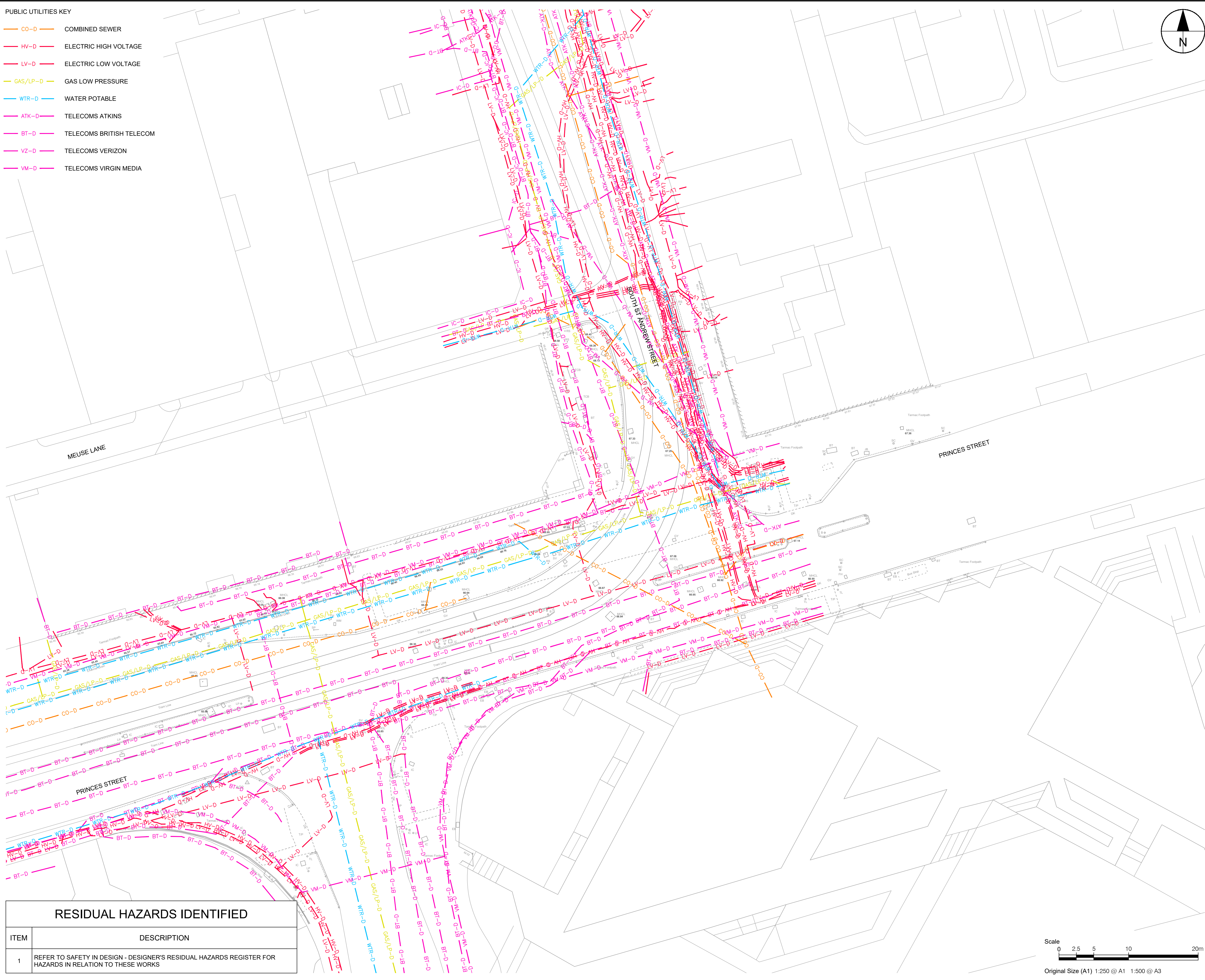
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60487449-DD-C-WP1-4.2.1-0001

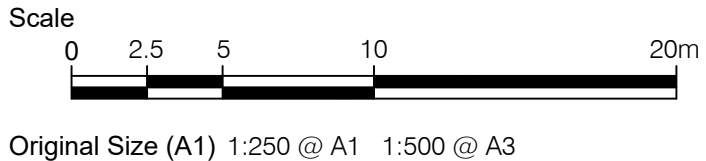
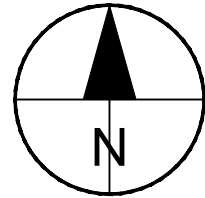
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Filename: \\na.aecomnet.com\lfs\edina\edinburgh\uk\ed4\legacy\uk\ed4\project\TRAFFIC - CEC WALK CYCLE WP1\03 EXECUTION\CAD\2D-SHEETS\4.0 -
TRAM\4.2.1\60487449-DD-C-WP1-4.2.1-0101 (A3).DWG
Last saved by: JOE.NICHOLAS Last Potted: 2023-05-01

ISO A1 594mm x 841mm
Approved: PC
Checked: MC
Designer: IM
Project Management Initials:



RESIDUAL HAZARDS IDENTIFIED	
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PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

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ISSUE/REVISION

AB1	01/05/23	AS-BUILT
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

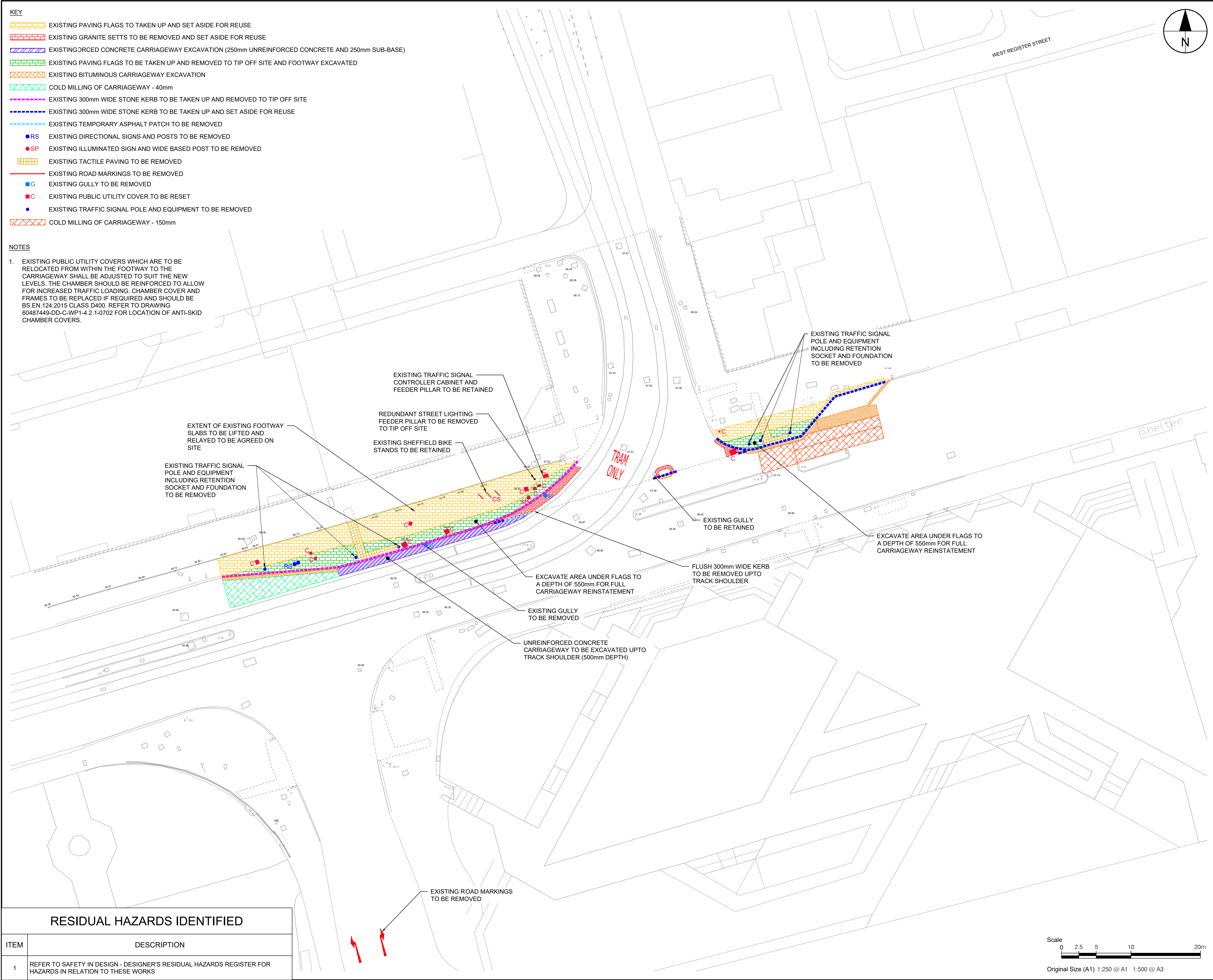
4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET EXISTING PUBLIC UTILITIES

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0101

Filename: I:\A\AECOM\NET\COM\1\FS\NEW\A\EDINBURGH\KED\4\LEGACY\UKED4\FR002\1\TP\PROJECTS\TRAFFIC - CEC WALK CYCLE WP1\03 EXECUTION\CAD\20-SHEETS\4.0 - TRAM\4.2.160487449-DD-C-WP1-4.2.1-0201 (A3).DWG
Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-02

ISO A1 594mm x 841mm
Approved: PM
Checked: IM
Designer: JN
Project Management Initials:



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PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT

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ISSUE/REVISION		
AB1	01/05/23	AS-BUILT
O4	28/03/23	PAVEMENT DESIGN UPDATE
C3	21/03/2023	GA & PAVEMENT DETAILS UPDATE
C2	27/02/23	CLIENT COMMENTS UPDATE
C1	16/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

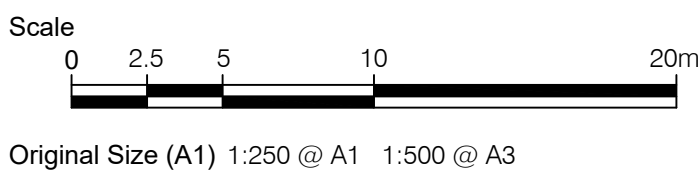
SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET SITE CLEARANCE

SHEET NUMBER

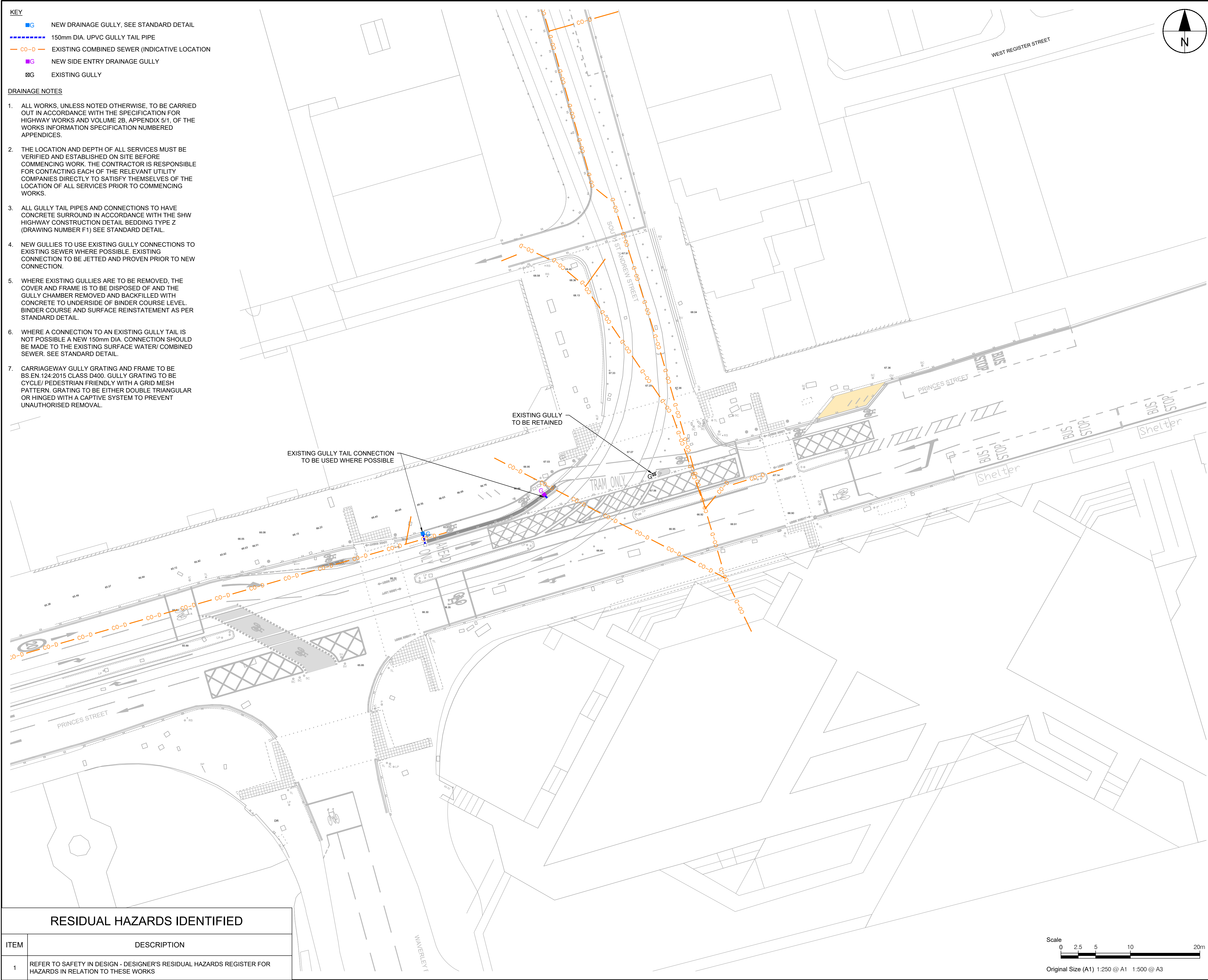
60487449-DD-C-WP1-4.2.1-0201

RESIDUAL HAZARDS IDENTIFIED	
ITEM	DESCRIPTION
1	REFER TO SAFETY IN DESIGN - DESIGNER'S RESIDUAL HAZARDS REGISTER FOR HAZARDS IN RELATION TO THESE WORKS



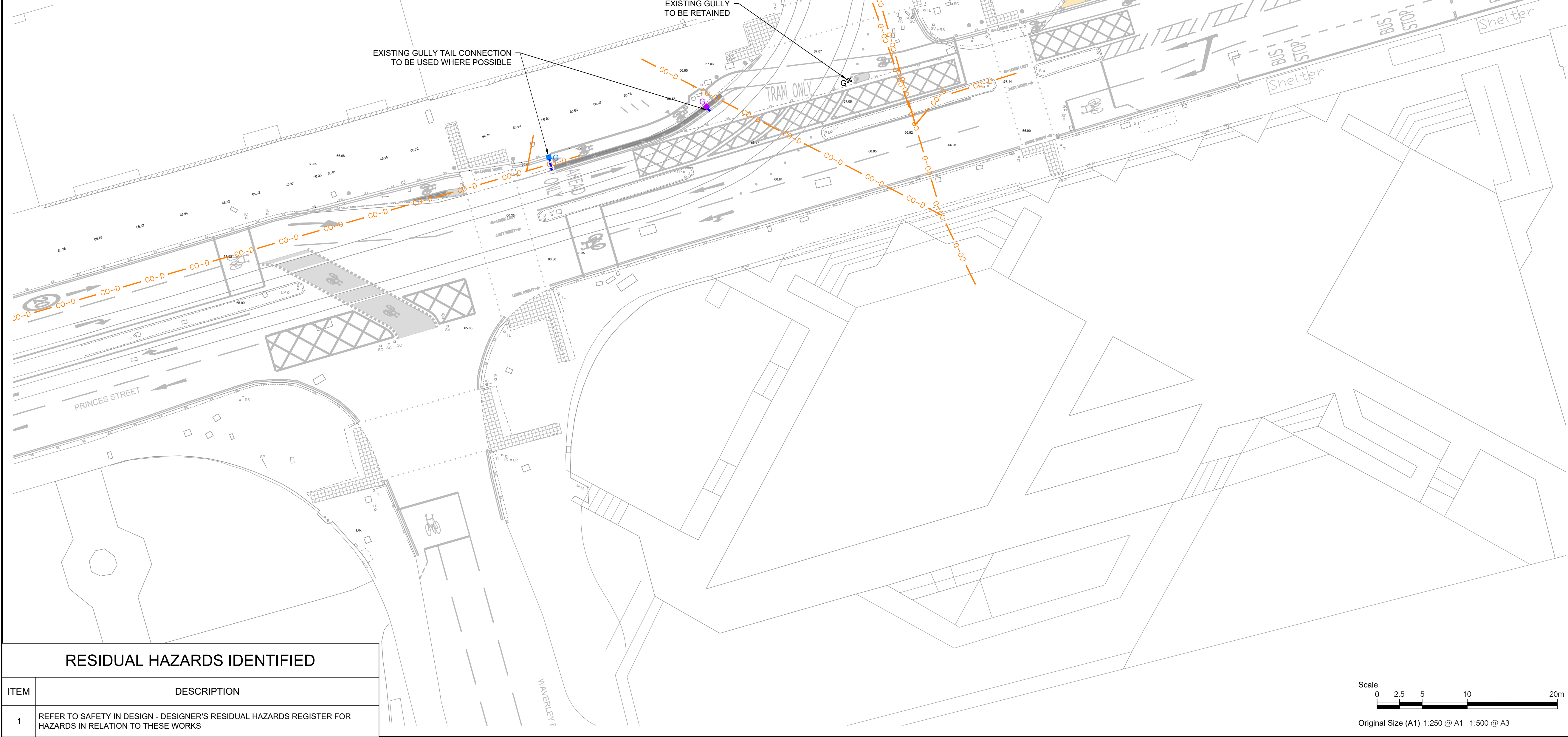
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Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-02

ISO A1 594mm x 841mm
Approved: PM
Checked: PM
Designer: JN
Project Management Initials:

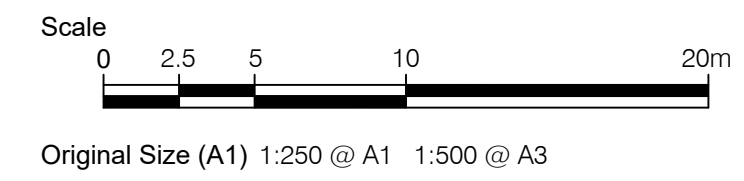
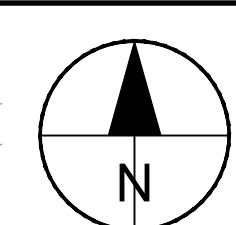


- KEY**
- NEW DRAINAGE GULLY, SEE STANDARD DETAIL
 - 150mm DIA. UPVC GULLY TAIL PIPE
 - EXISTING COMBINED SEWER (INDICATIVE LOCATION)
 - NEW SIDE ENTRY DRAINAGE GULLY
 - EXISTING GULLY

- DRAINAGE NOTES**
- ALL WORKS, UNLESS NOTED OTHERWISE, TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS AND VOLUME 2B, APPENDIX 5/1, OF THE WORKS INFORMATION SPECIFICATION NUMBERED APPENDICES.
 - THE LOCATION AND DEPTH OF ALL SERVICES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH OF THE RELEVANT UTILITY COMPANIES DIRECTLY TO SATISFY THEMSELVES OF THE LOCATION OF ALL SERVICES PRIOR TO COMMENCING WORKS.
 - ALL GULLY TAIL PIPES AND CONNECTIONS TO HAVE CONCRETE SURROUND IN ACCORDANCE WITH THE SHW HIGHWAY CONSTRUCTION DETAIL BEDDING TYPE Z (DRAWING NUMBER F1) SEE STANDARD DETAIL.
 - NEW GULLIES TO USE EXISTING GULLY CONNECTIONS TO EXISTING SEWER WHERE POSSIBLE. EXISTING CONNECTION TO BE JETTED AND PROVEN PRIOR TO NEW CONNECTION.
 - WHERE EXISTING GULLIES ARE TO BE REMOVED, THE COVER AND FRAME IS TO BE DISPOSED OF AND THE GULLY CHAMBER REMOVED AND BACKFILLED WITH CONCRETE TO UNDERSIDE OF BINDER COURSE LEVEL. BINDER COURSE AND SURFACE REINSTATEMENT AS PER STANDARD DETAIL.
 - WHERE A CONNECTION TO AN EXISTING GULLY TAIL IS NOT POSSIBLE A NEW 150mm DIA. CONNECTION SHOULD BE MADE TO THE EXISTING SURFACE WATER/ COMBINED SEWER. SEE STANDARD DETAIL.
 - CARRIAGEWAY GULLY GRATING AND FRAME TO BE BS.EN.124:2015 CLASS D400. GULLY GRATING TO BE CYCLE/ PEDESTRIAN FRIENDLY WITH A GRID MESH PATTERN. GRATING TO BE EITHER DOUBLE TRIANGULAR OR HINGED WITH A CAPTIVE SYSTEM TO PREVENT UNAUTHORISED REMOVAL.



RESIDUAL HAZARDS IDENTIFIED	
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PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT



CONSULTANT

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www.aecom.com

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ISSUE/REVISION		
AB1	01/05/2023	AS-BUILT
C3	28/03/2023	SIDE ENTRY GULLY
C2	21/03/2023	GA & PAVEMENT DETAILS UPDATE
C1	16/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

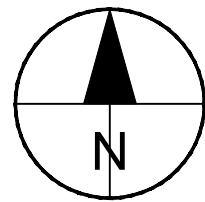
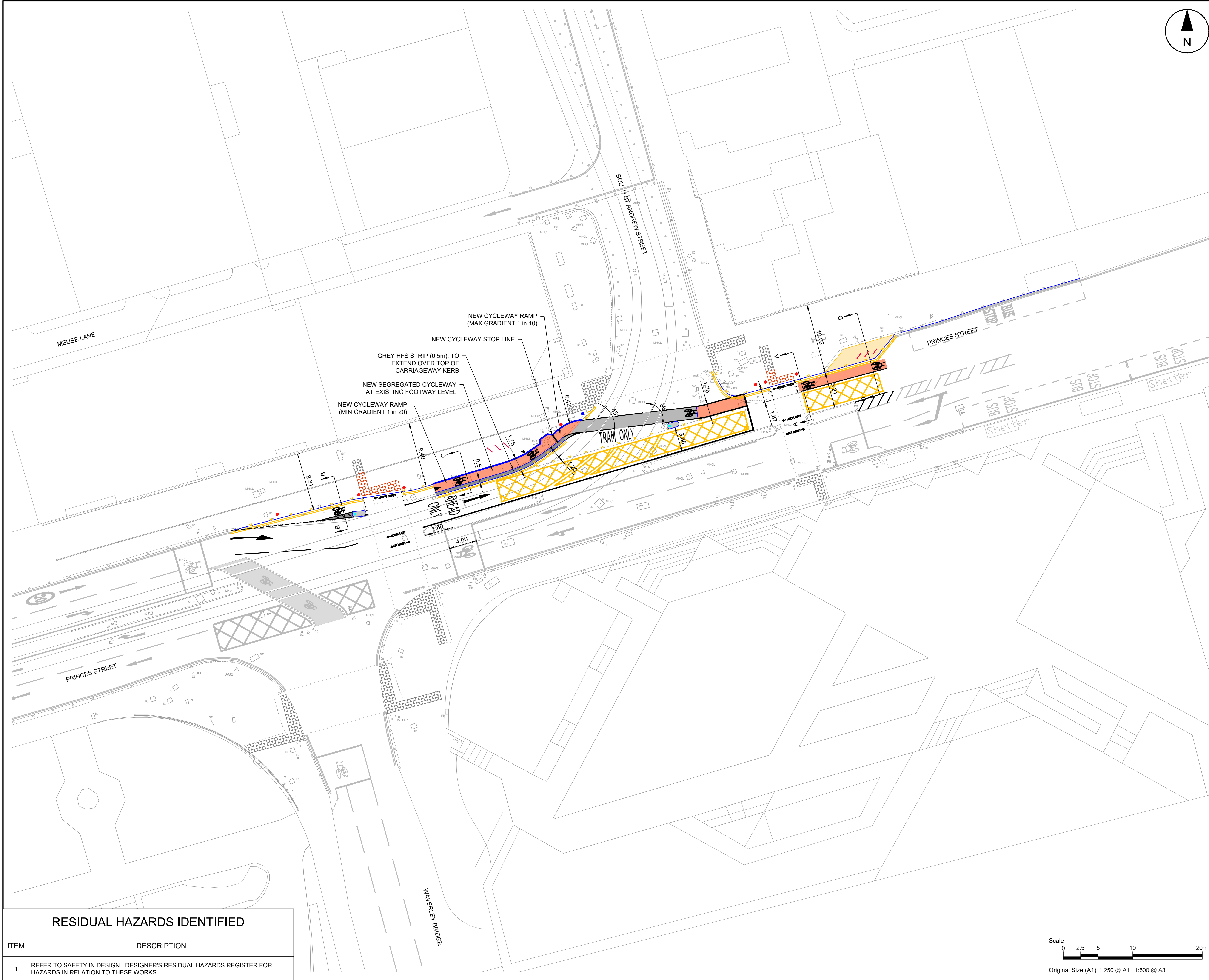
4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET DRAINAGE

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0501

Filename: I:\A\AECOM\NET\COM\FS\EN\A\EDINBURGH\UK\ED4\LEGACY\UKED4\PR02\VTTP\PROJECTS\TRAFFIC - CEC WALK CYCLE WP1\03 EXECUT\DWG\20-SHEETS\4.0 - TRAM\4.2.160487449-DD-C-WP1-4.2.1-0701 (A1) DWG
Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-02

Project Management Initials: Designer: JN Checked: PM Approved: PM ISO A1 594mm x 841mm



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AB1	01/05/2023	AS-BUILT
C3	21/03/2023	GA & PAVEMENT DETAILS UPDATE
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C1	16/01/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

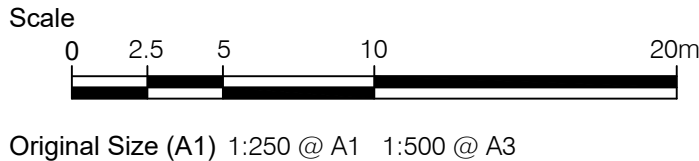
4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET GENERAL ARRANGEMENT

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0701

RESIDUAL HAZARDS IDENTIFIED

ITEM	DESCRIPTION
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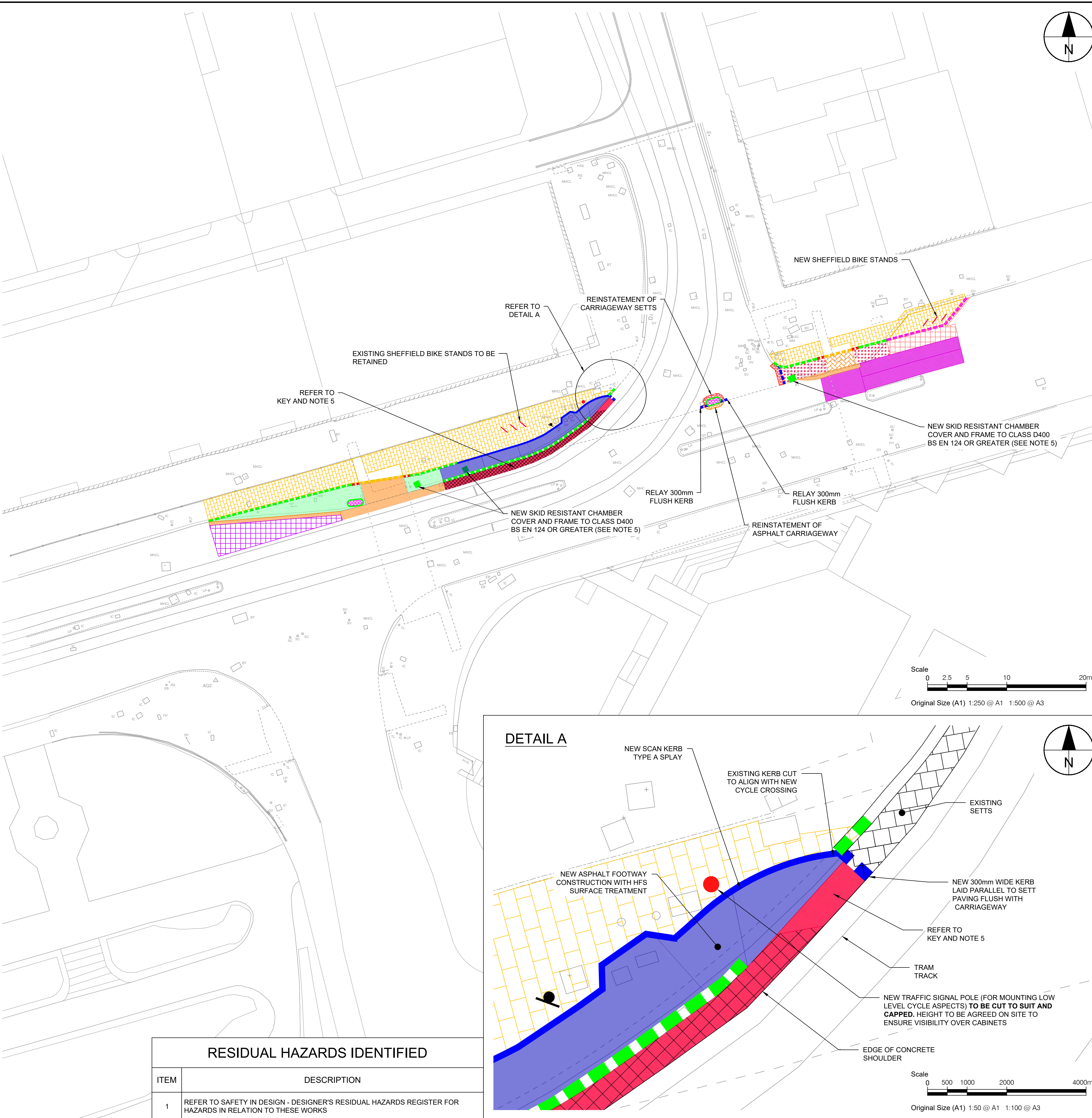
- KEY**
- REMOVE FROM SET ASIDE AND RELAY
300mm NATURAL STONE KERB WITH 125mm UPSTAND, SEE STANDARD DETAIL
 - REMOVE FROM SET ASIDE AND RELAY
300mm NATURAL STONE TRANSITION KERB FROM UPSTAND TO 0mm, SEE STANDARD DETAIL
 - REMOVE FROM SET ASIDE AND RELAY
300mm NATURAL STONE DROPPED KERB WITH AN UPSTAND 0-6mm, SEE STANDARD DETAIL
 - NEW 125 x 250 NATURAL STONE KERB WITH 125mm UPSTAND, SEE STANDARD DETAIL
 - NEW 125 x 250 NATURAL STONE TRANSITION KERB WITH FROM UPSTAND TO 0mm, SEE STANDARD DETAIL
 - NEW 125 x 250 NATURAL STONE DROPPED KERB WITH AN UPSTAND 0-6mm, SEE STANDARD DETAIL
 - REMOVE FROM SET ASIDE AND RELAY 300mm WIDE NATURAL STONE KERB LAID FLUSH WITH CARRIAGEWAY, SEE STANDARD DETAIL
 - REMOVE FROM SET ASIDE AND RELAY 300mm WIDE NATURAL STONE KERB WITH VARIED UPSTAND - TO MATCH EXISTING FOOTWAY CROSSFALL, SEE STANDARD DETAIL
 - EXTENT OF FULL CARRIAGEWAY CONSTRUCTION
40mm HOT ROLLED ASPHALT SURFACE COURSE BLACK CHIPS
60mm DENSE BITUMEN MACADAM BINDER COURSE
230mm DENSE BITUMEN MACADAM BASE COURSE
150mm TYPE 1 SUB-BASE
 - EXTENT OF FULL CARRIAGEWAY CONSTRUCTION
40mm HOT ROLLED ASPHALT SURFACE COURSE WITH RED CHIPS
60mm DENSE BITUMEN MACADAM BINDER COURSE
230mm DENSE BITUMEN MACADAM BASE COURSE
150mm TYPE 1 SUB-BASE
 - GRANITE SETTS TO BE REMOVED FROM SET ASIDE AND RELAID IN NEW CARRIAGEWAY CONSTRUCTION. SEE STANDARD DETAIL
 - EXTENT OF PAVING FLAG CONSTRUCTION
REMOVE FROM SET ASIDE AND RELAY
PRECAST CONCRETE FLAGS ON 25mm DRY MIX MORTAR BEDDING. 150mm TYPE 1 SUB-BASE
 - RECLAIMED SETTS TO BE COLLECTED FROM CEC INCH PARK DEPOT. REFER TO STANDARD DETAIL
 - EXTENT OF CARRIAGEWAY RESURFACING
PLANE 40mm AND REPLACE WITH:
40mm HOT ROLLED ASPHALT SURFACE COURSE BLACK CHIPS
 - TACTILE PAVING - CONTROLLED (CONTRASTING GREY DIMPLED 400x400x65mm), SEE STANDARD DETAIL
 - NEW TRAFFIC SIGNAL POLE
 - NEW SKID RESISTANT CHAMBER COVER CLASS D400 OR GREATER. SEE NOTE 5
 - NEW / RELOCATED SHEFFIELD BIKE STAND, SEE STANDARD DETAIL
 - EXTENT OF FULL FOOTWAY CONSTRUCTION
30mm HOT ROLLED ASPHALT SURFACE COURSE WITH RED CHIPS
50mm DENSE MACADAM BINDER COURSE
225mm TYPE 1 SUB-BASE
 - NEW BOMAX SCAN KERB TYPE A SPLAY PROFILE (100mm HEIGHT) OR EQUIVALENT
 - EXTENT CARRIAGEWAY REINSTATEMENT (ON TRAM CONCRETE TRACKFORM - SEE NOTE 5)
50mm HOT ROLLED ASPHALT SURFACE COURSE BLACK CHIPS
100mm DENSE BITUMEN MACADAM BINDER COURSE
 - EXTENT CARRIAGEWAY REINSTATEMENT (ON TRAM CONCRETE TRACKFORM - SEE NOTE 5)
50mm HOT ROLLED ASPHALT SURFACE COURSE RED CHIPS
100mm DENSE BITUMEN MACADAM BINDER COURSE
 - EXTENT OF FULL CARRIAGEWAY CONSTRUCTION
50mm HOT ROLLED ASPHALT SURFACE COURSE BLACK CHIPS
100mm DENSE BITUMEN MACADAM BINDER COURSE
180mm DENSE BITUMEN MACADAM BASE COURSE
150mm TYPE 1 SUB-BASE
 - EXTENT OF FULL CARRIAGEWAY CONSTRUCTION
50mm HOT ROLLED ASPHALT SURFACE COURSE RED CHIPS
100mm DENSE BITUMEN MACADAM BINDER COURSE
180mm DENSE BITUMEN MACADAM BASE COURSE
150mm TYPE 1 SUB-BASE
 - EXTENT OF CARRIAGEWAY RESURFACING
PLANE 40mm AND REPLACE WITH
40mm HOT ROLLED ASPHALT SURFACE COURSE WITH RED CHIPS
 - EXTENT OF CARRIAGEWAY REINSTATEMENT
50mm HOT ROLLED ASPHALT SURFACE COURSE BLACK CHIPS
100mm DENSE BITUMEN MACADAM BINDER COURSE

NOTES

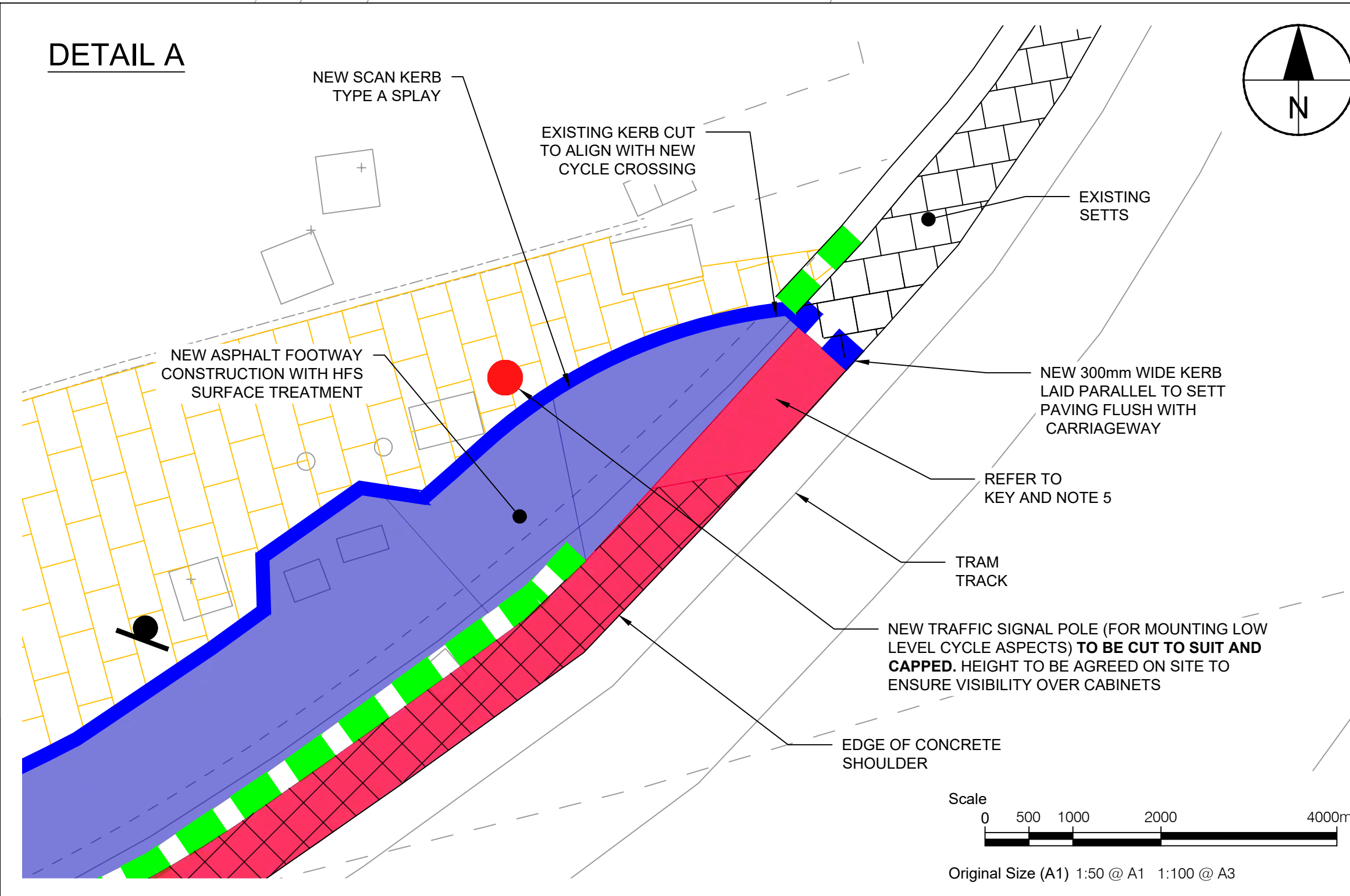
- REFER TO DRAWING No. 60487449-DD-C-WP1-4.2.1-1202 FOR INFORMATION RELATING TO NEW TRAFFIC SIGNAL POLES AND EQUIPMENT.
- REFER TO DRAWING No. 60487449-DD-C-WP1-4.2.1-1401 FOR ASSOCIATED DUCTING REQUIREMENTS.
- REPLACEMENT DAMAGED FLAGS OR ADDITIONAL FLAGS MUST BE THE SAME SPECIFICATION AND THICKNESS AS EXISTING. THEY MUST BE OF SIMILAR DIMENSIONS TO TIE IN WITH THE EXISTING LAYING PATTERN. FLAG COLOUR MUST MATCH EXISTING.
- SKID RESISTANT CHAMBER COVER AND FRAME TO BE GRIPTOP BY SAINT-GOBAIN PAM UK, OR SIMILAR APPROVED. CHAMBER COVER SHOULD BE EMBOSSED WITH THE PUBLIC UTILITY PROVIDERS NAME. LOGO. ANTI-SKID SURFACE TO BE RED IN COLOUR TO MATCH ADJACENT CARRIAGEWAY.
- ASPHALT CARRIAGEWAY REINSTATEMENT ON TRAM CONCRETE TRACKFORM, COMPRISING OF 50mm HRA SURFACE COURSE AND 100mm DBM BINDER COURSE. TO BE HAND / PLATE COMPACTED IN 50mm LAYERS, UNTIL SUITABLE COMPACTION IS ACHIEVED.

RESIDUAL HAZARDS IDENTIFIED

ITEM	DESCRIPTION
1	REFER TO SAFETY IN DESIGN - DESIGNER'S RESIDUAL HAZARDS REGISTER FOR HAZARDS IN RELATION TO THESE WORKS



DETAIL A



AECOM

PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT

EDINBURGH
THE CITY OF EDINBURGH COUNCIL

CONSULTANT

AECOM
1 Tanfield
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+44 (0) 131 301 8600 tel
+44 (0) 131 301 8699 fax
www.aecom.com

NOTES

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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
O4	28/03/2023	PAVEMENT DETAILS UPDATE
C3	21/03/2023	GA & PAVEMENT DETAILS UPDATE
C2	27/02/2023	CLIENT COMMENTS UPDATE
C1	16/02/23	CLIENT COMMENTS UPDATE
C0	22/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET CIVILS WORKS

SHEET NUMBER

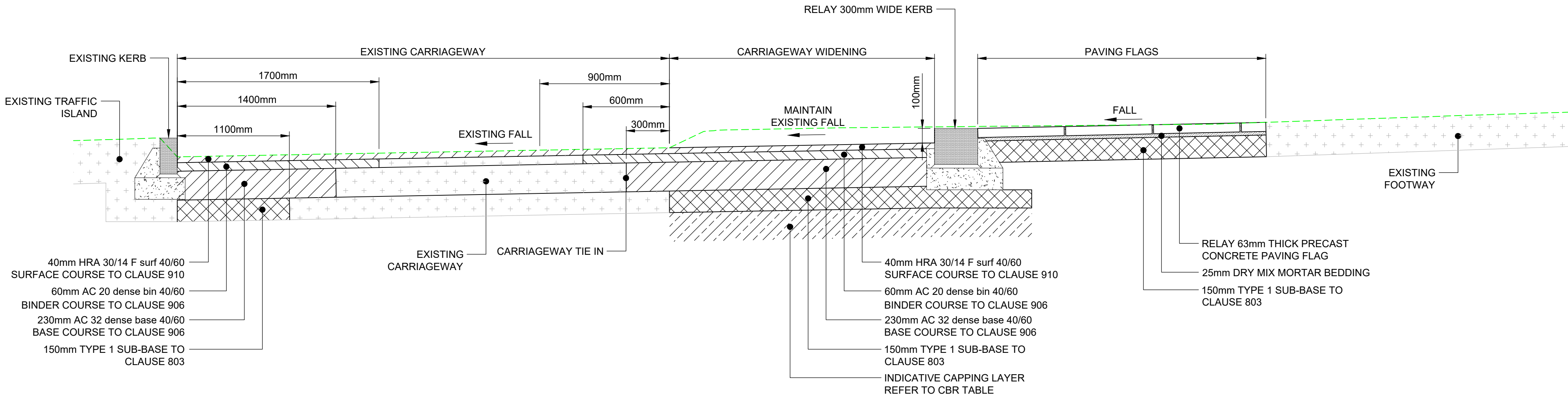
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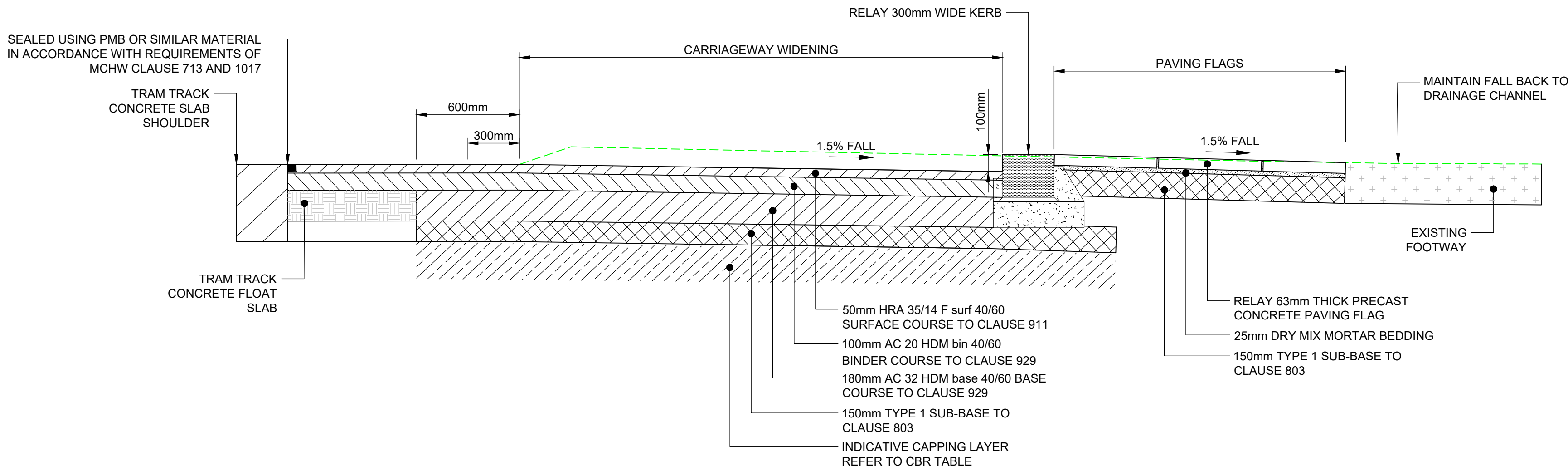
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Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-01

ISO A1 594mm x 841mm
Approved: PM
Checked: PM
Designer: JN
Project Management Initials:

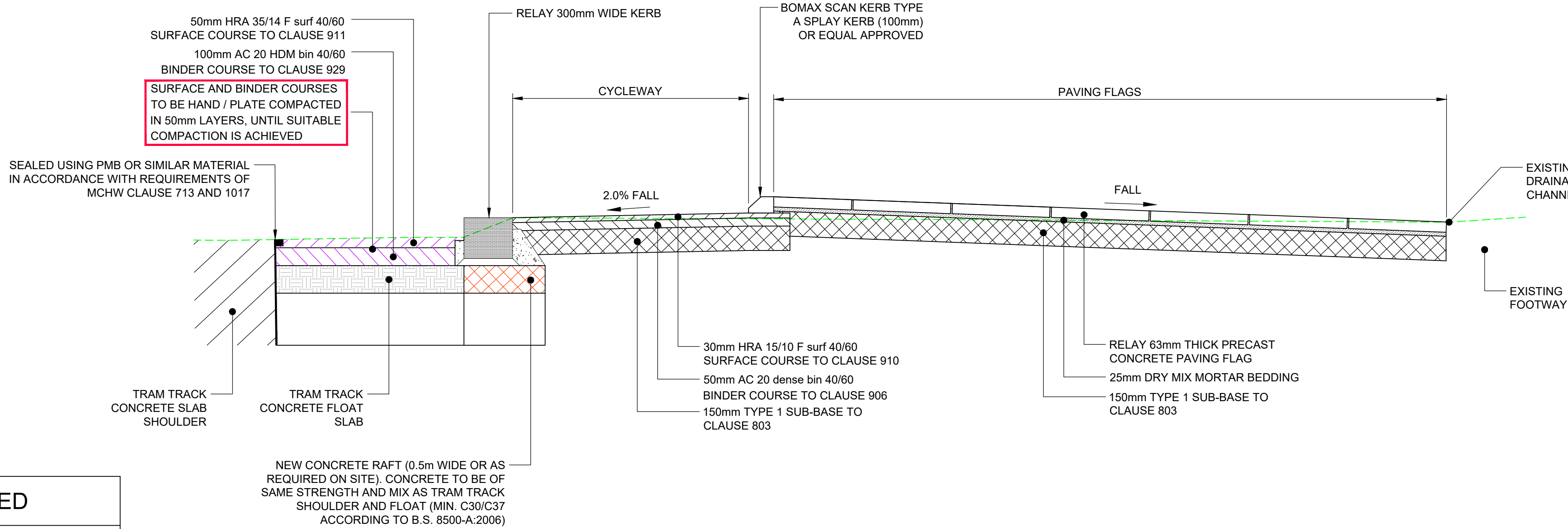
KEY
--- EXISTING PROFILE



TYPICAL SECTION A - A
SCALE 1:20



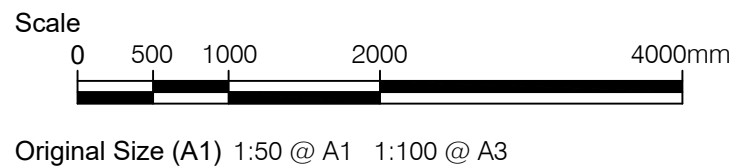
TYPICAL SECTION B - B
SCALE 1:20



TYPICAL SECTION C - C
SCALE 1:20

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AECOM

PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

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• EDINBURGH •
THE CITY OF EDINBURGH COUNCIL

CONSULTANT

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C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET CROSS SECTIONS

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0703

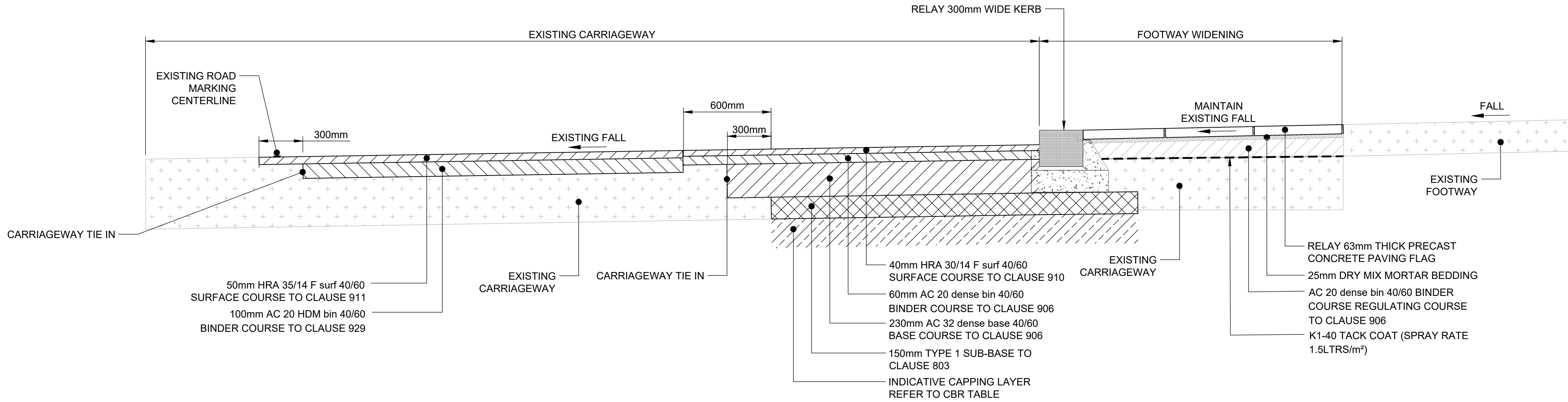
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Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-01

Project Management Initials: Designer: JN Checked: IM Approved: PM ISO A1 594mm x 841mm

KEY

----- EXISTING PROFILE



TYPICAL SECTION D - D

SCALE 1:20



PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT



CONSULTANT

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www.aecom.com

NOTES

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ISSUE/REVISION

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C1	16/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

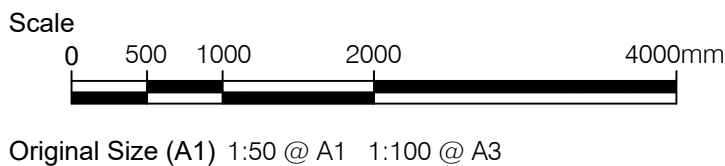
4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET CROSS SECTIONS

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0703A

RESIDUAL HAZARDS IDENTIFIED

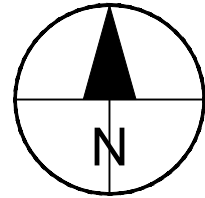
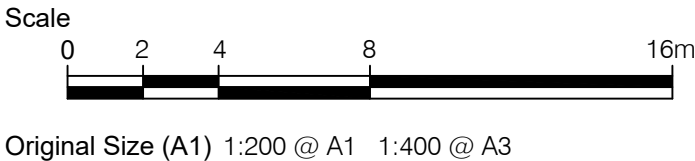
ITEM	DESCRIPTION
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SHEET NO LONGER
IN USE



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I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

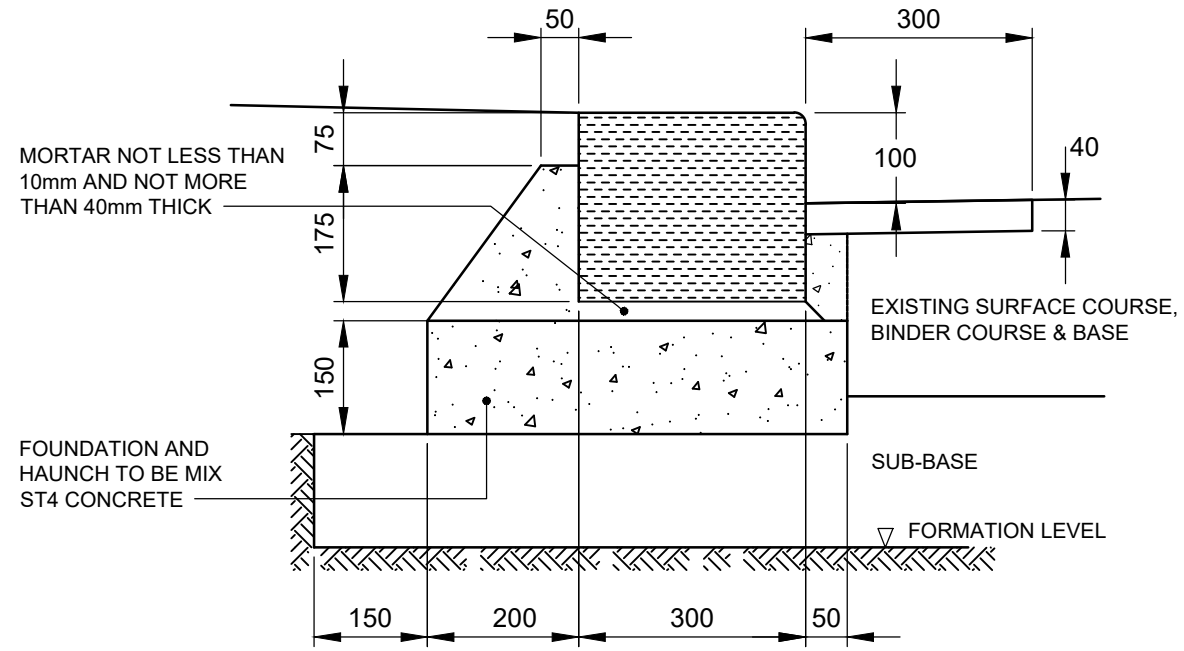
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SHEET NUMBER

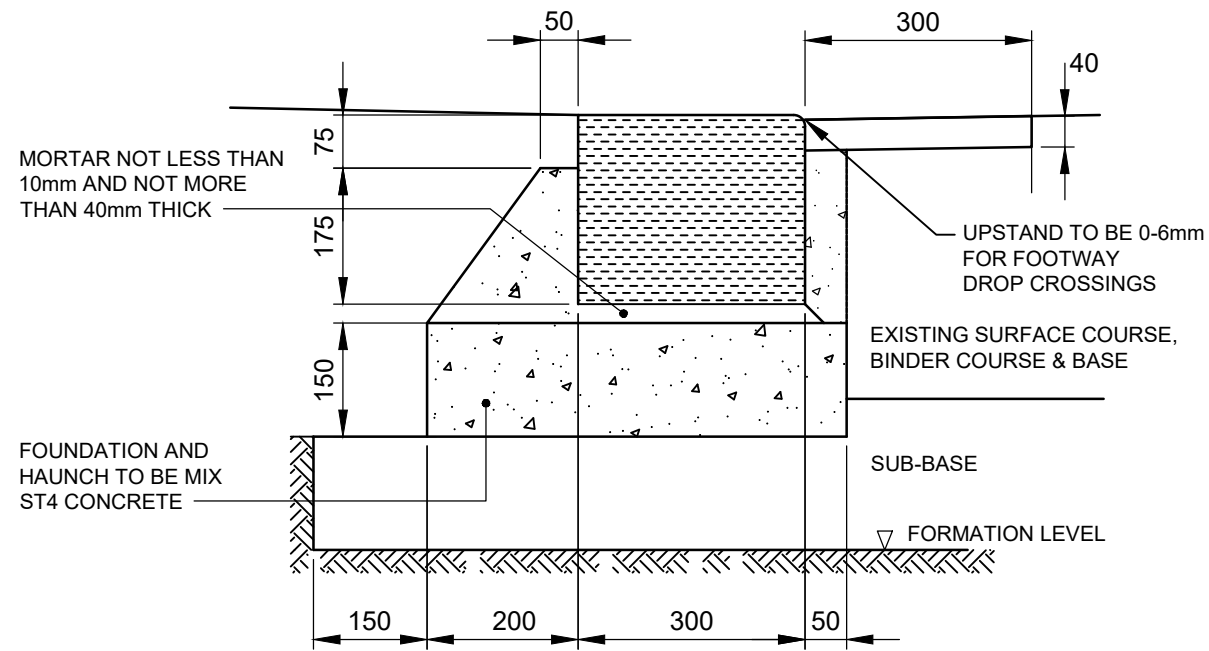
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ISO A1 594mm x 841mm
Approved: PM
Checked: IM
Designer: JN
Project Management Initials:

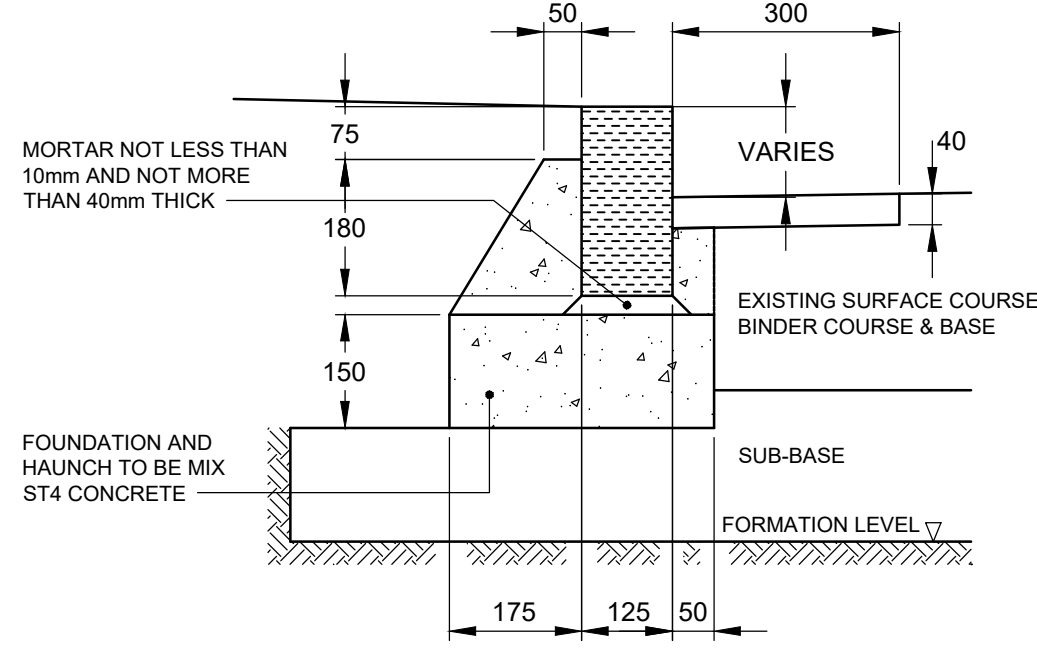
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Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-01



RELAY NATURAL STONE (WHINSTONE) ROAD KERE
300mm WIDE FULL UPSTAND



RELAY NATURAL STONE (WHINSTONE) DROP KERB
300mm WIDE 0-6mm UPSTAND



NEW NATURAL STONE (WHINSTONE)
TRANSITION KERB 125 x 250mm

KERB NOTES:

KERB DETAILS TO COMPLY WITH
BS.EN.1343:2012.

KERB SIZE 125mm X 250mm.

KERB FINISH TO BE COARSE TEXTURED,
(DOLLY POINTED, TOOLED, SHOT BLASTED
OR FLAME TEXTURED).

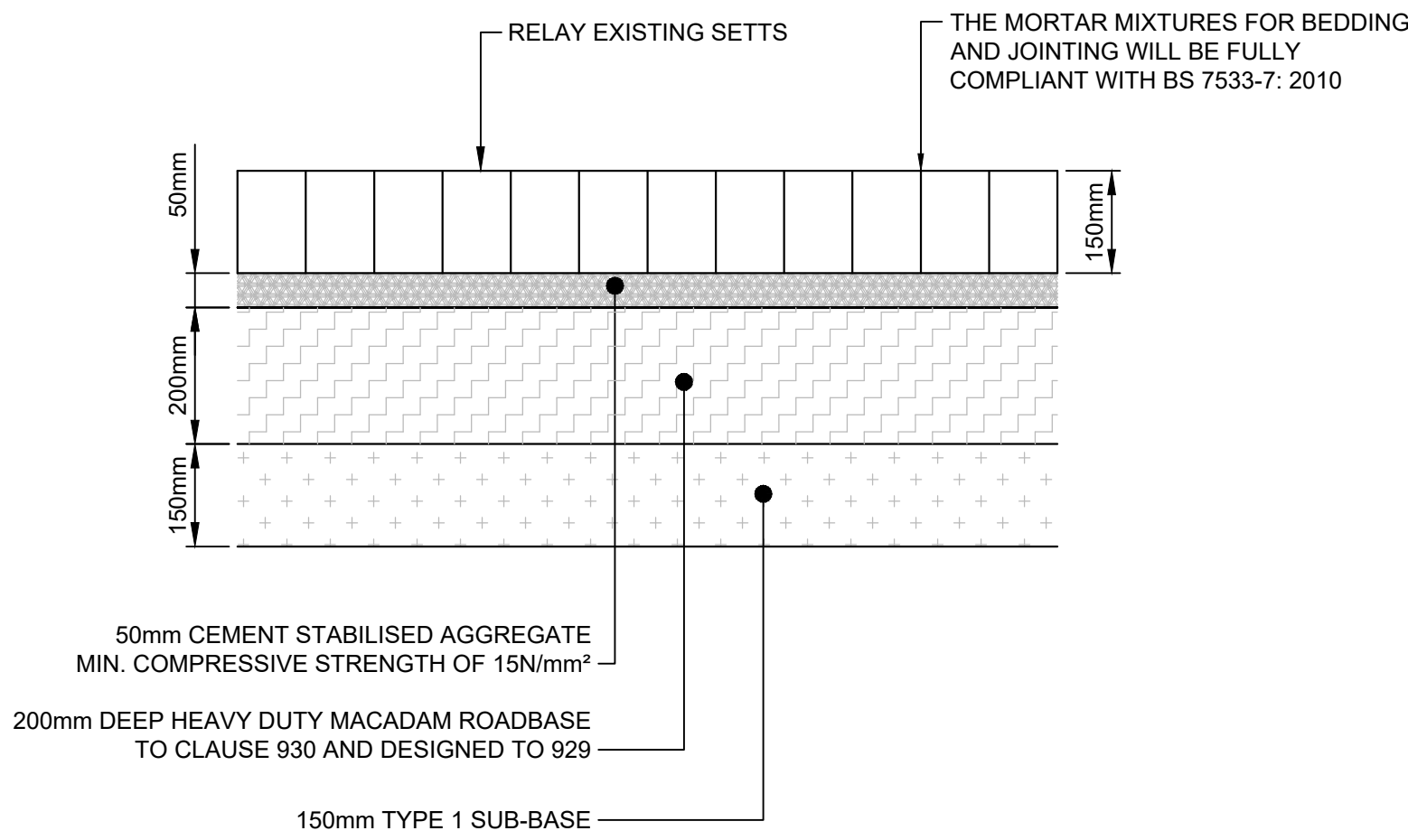
KERB FOUND AND HAUNCH TO BE MIX ST4
CONCRETE.

KERBS TO BE LAID AND BEDDED ON A
LAYER OF DESIGNATION (I) MORTAR NOT
LESS THAN 10mm AND NOT MORE THAN
40mm THICK. ALTERNATIVELY, KERBS MAY
BE LAID DIRECTLY ON THE CONCRETE
FOUNDATION WHILE IT IS STILL PLASTIC.

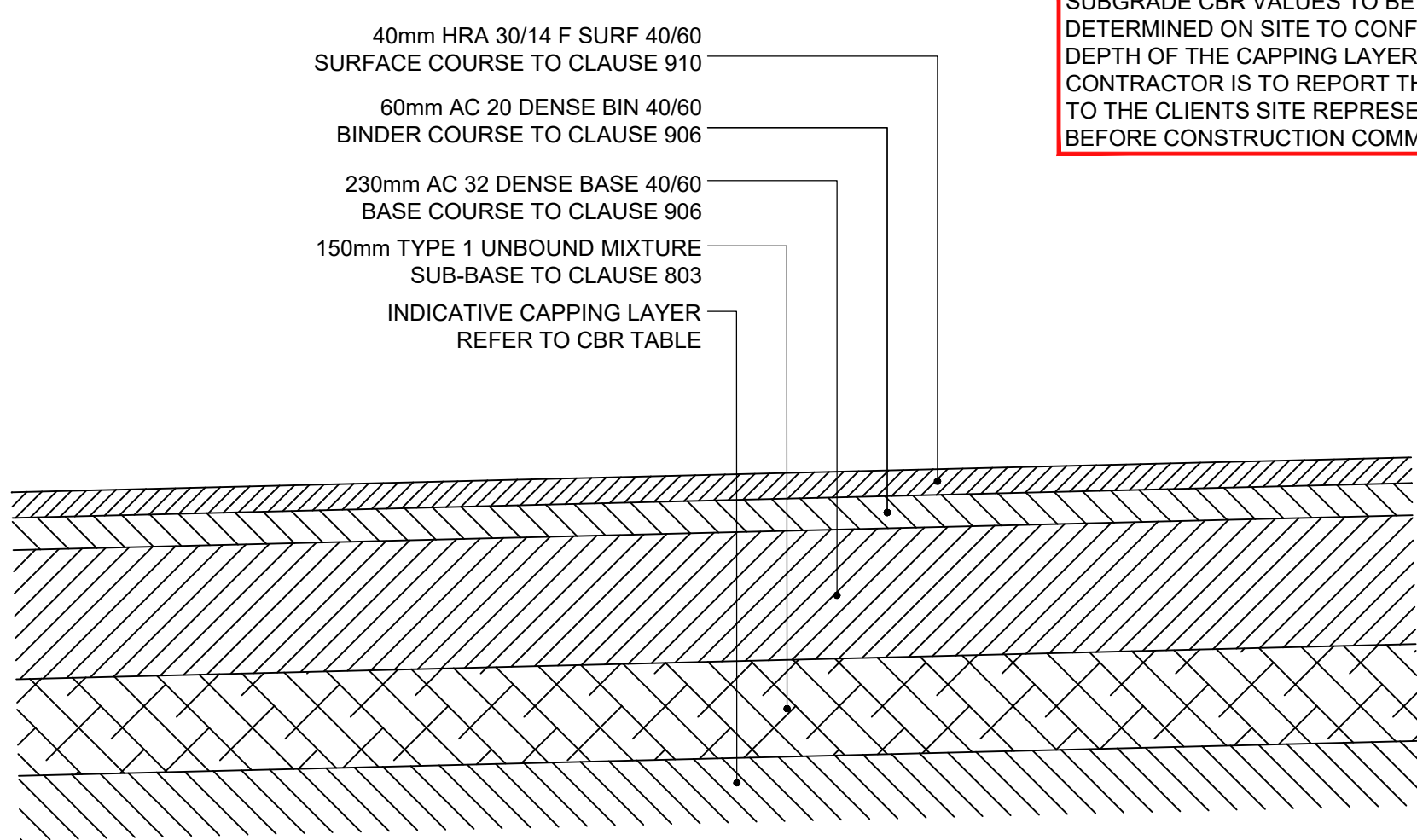
ADJOINING KERBS TO BE LAID WITH A 6mm
GAP AND POINTED WITH DESIGNATION (I)
MORTAR.

OVERBREAK FOR KERB FOUND
EXCAVATION, AND FILLET INFRONT OF
KERB TO BE MADE GOOD WITH MIX ST4
CONCRETE UPTO BINDER COURSE LEVEL.

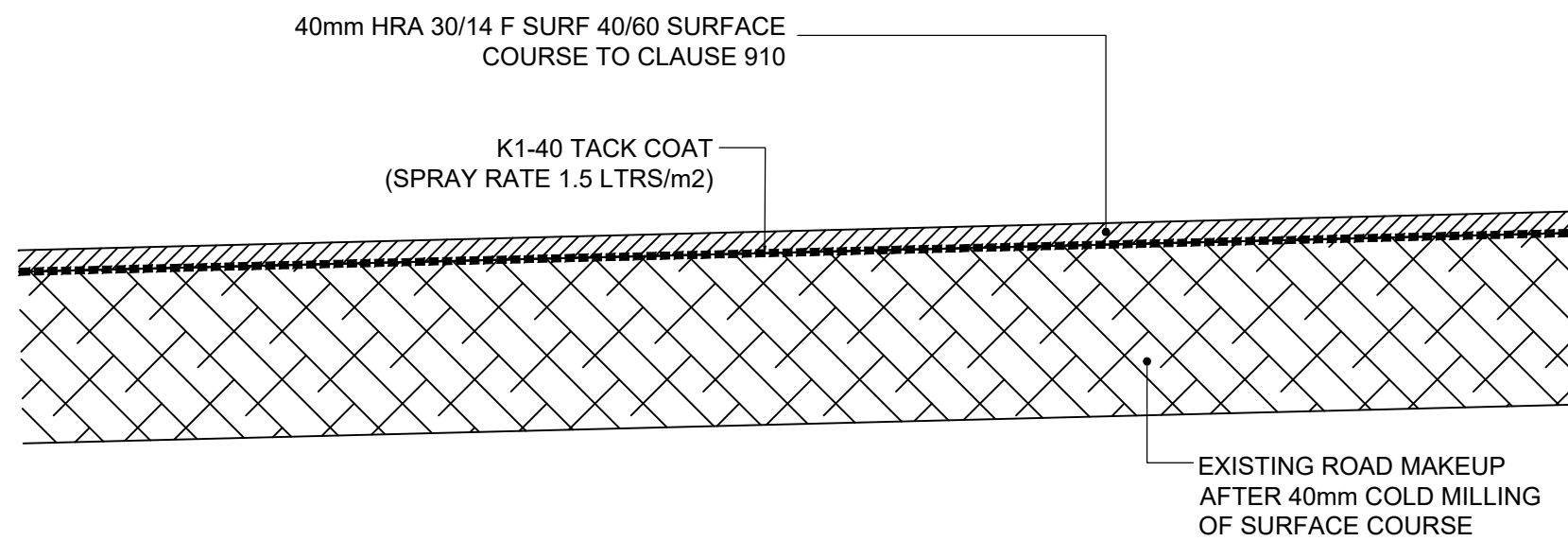
ROAD CHANNEL TO BE REINSTATED WITH
HOT ROLLED ASPHALT WITH 14mm
AGGREGATE, HRA 30/14 SURF 40/60 TO
BS.EN.13108-4:2006.



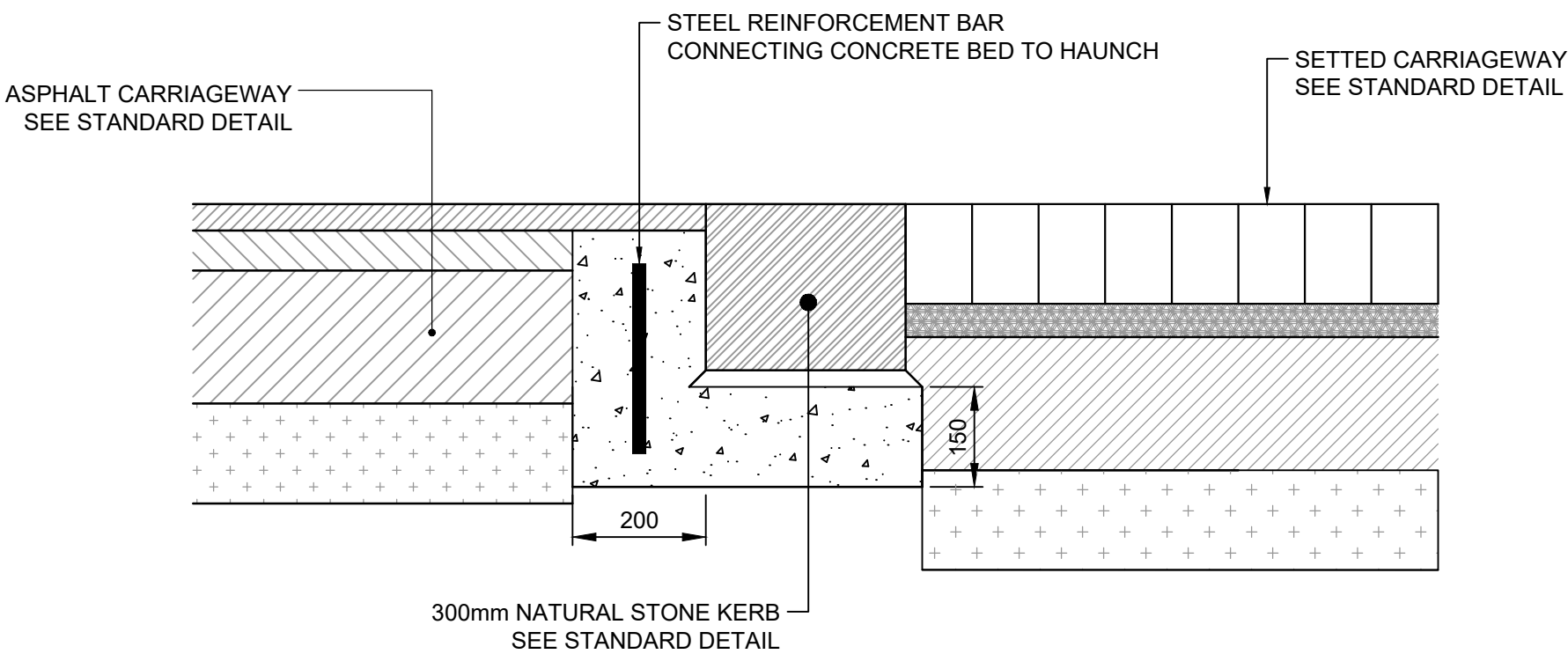
CARRIAGEWAY SETTS CONSTRUCTION DETAIL
(RIGID CONSTRUCTION)



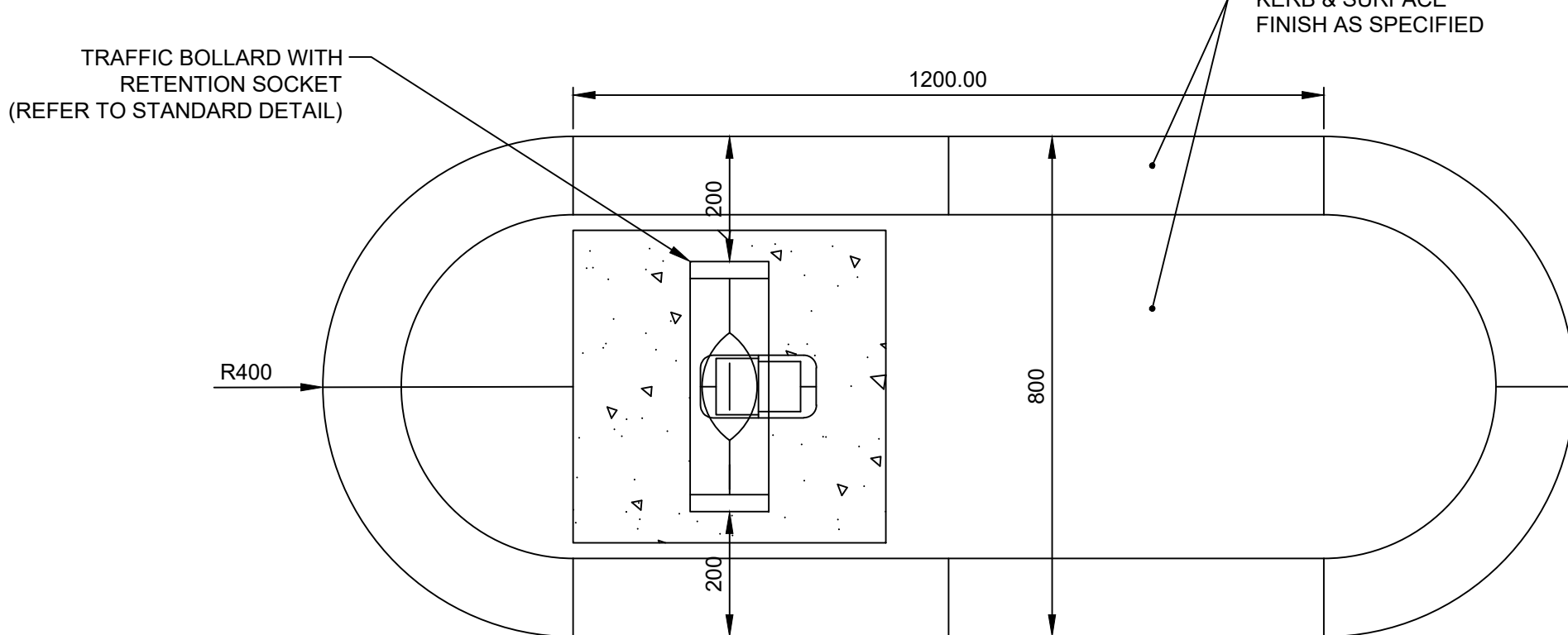
CARRIAGEWAY MAKEUP DETAIL (FULL CONSTRUCTION)



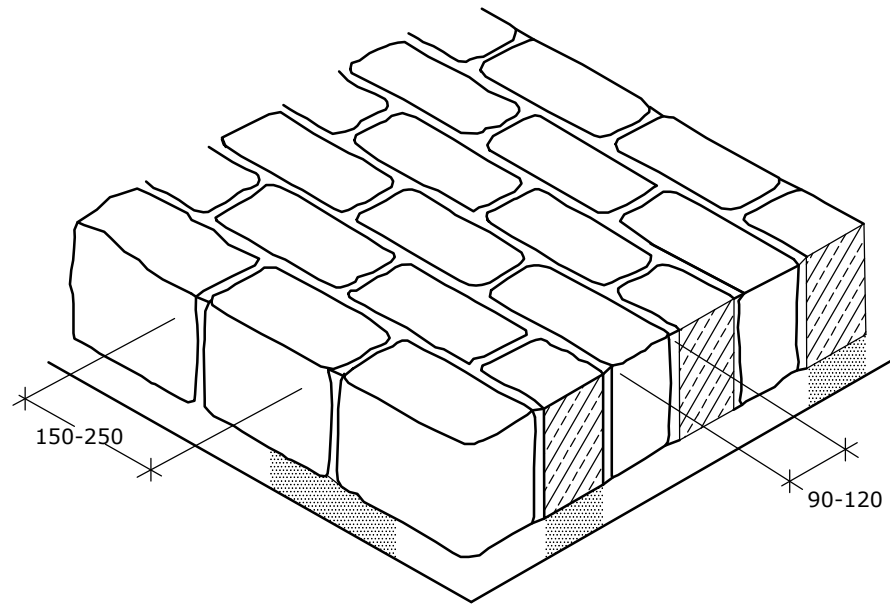
CARRIAGEWAY RESURFACING DETAIL



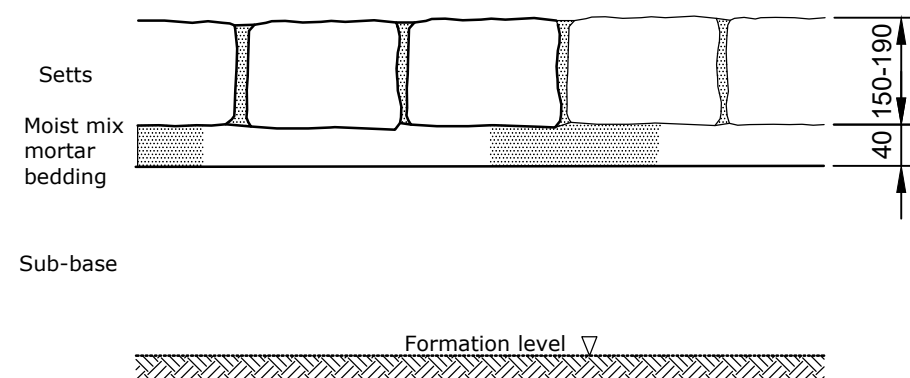
JOINT OF SETTED AREA AND STANDARD ASPHALT ROAD
PAVEMENT (FLEXIBLE TO RIGID ROAD PAVEMENT)
CONSTRUCTION DETAIL



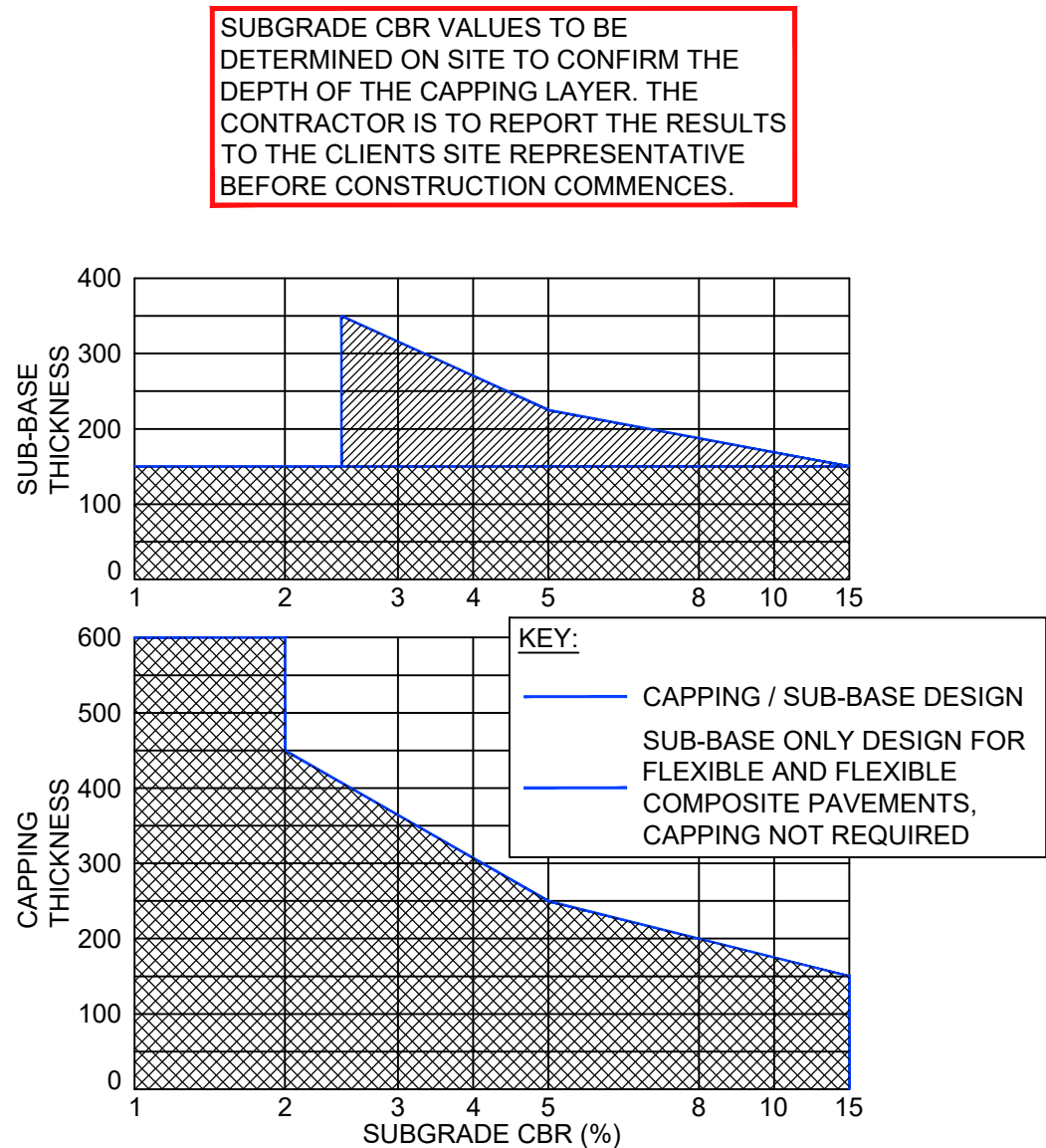
TRAFFIC ISLAND WITH BOLLARD



PAVING LAYOUT



NATURAL STONE SETTS
IN TRAFFIC ISLAND



CALIFORNIA BEARING RATIO TABLE

AECOM

PROJECT

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NO.	DATE	DESCRIPTION
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C0	23/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION
WITH SOUTH ST. ANDREW STREET
CONSTRUCTION DETAILS 1 OF 4

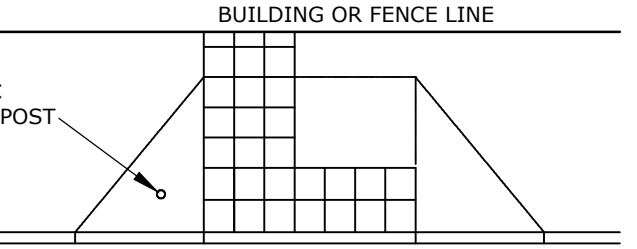
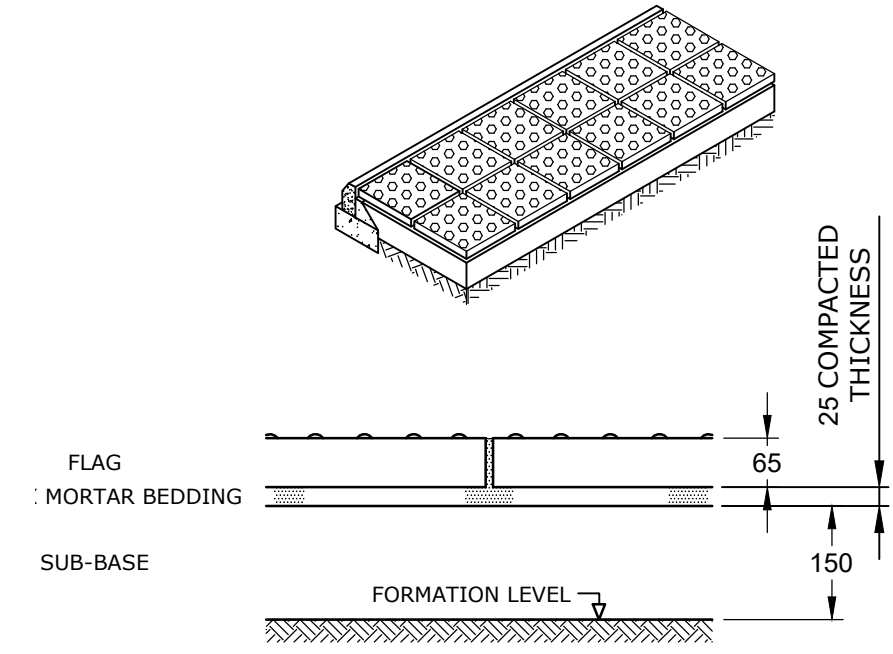
SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0901

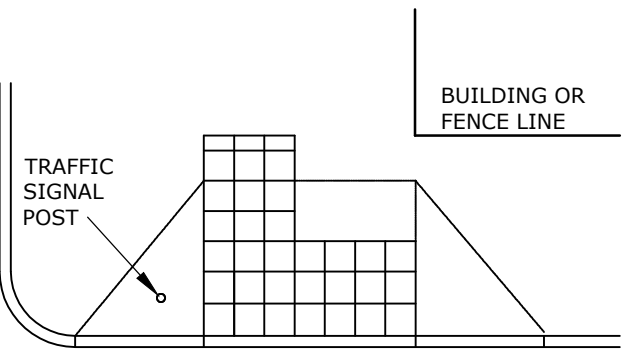
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ISO A1 594mm x 841mm
Approved: PM
Checked: PM
Designer: JN
Project Management Initials:

Filename: \\WA-AECOM\NET\COM\1\FS\E\A\ED\N\URGH\H\UK\ED\4\LEGACY\UK\ED\4\PROJECTS\TRAFFIC - DEC WALK CYCLE WP1\03 EXECUTION\CAD\20-SHEETS\4.0 - TRAM\4.2.1\60487449-DD-C-WP1-4.2.1-0901-0902-0903 (A81).DWG
Last saved by: JOE.NICHOLAS
Last Plotted: 2023-05-01

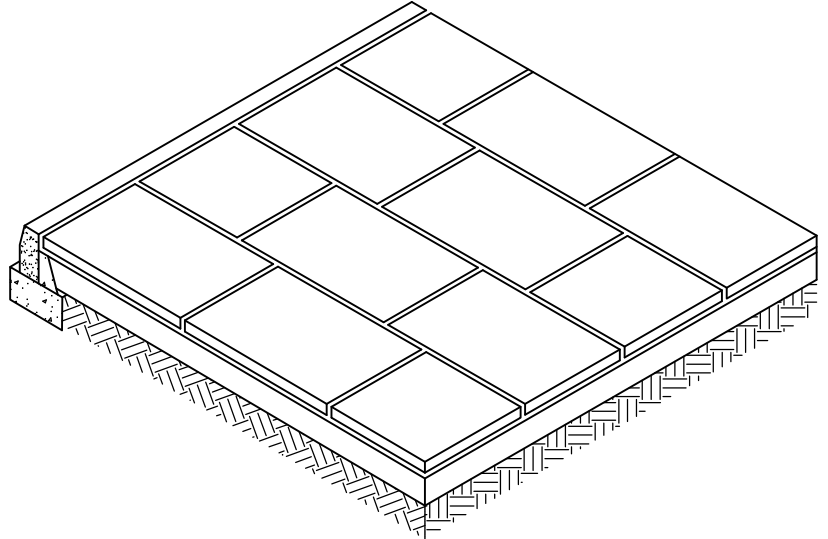


TYPICAL LAYOUT 1, AT INSET PEDESTRIAN CROSSING

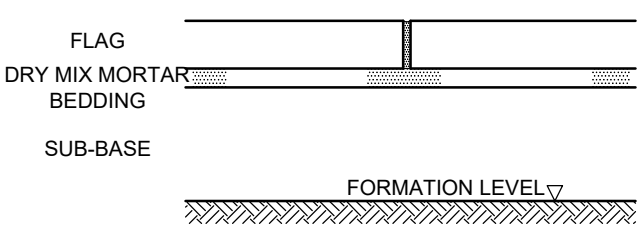


TYPICAL LAYOUT 2, AT IN-LINE PEDESTRIAN CROSSING

TEXTURED PAVING FLAGS AT CONTROLLED CROSSING



PAVING FLAGS DETAIL



PAVING FLAG SECTIONAL ELEVATION

TEXTURED PAVING FLAG NOTES:

PRECAST CONCRETE FLAGS TO COMPLY WITH BS.EN.1339:2003.

NATURAL STONE FLAGS TO COMPLY WITH BS.7533.PART 4:2006.

FLAGS SHALL BE 400 x 400 x 65mm OR 70mm THICK, COLOURED GREY.

THE SHADE OF GREY USED SHALL PROVIDE A CONTRAST WITH THE SURROUNDING FOOTWAY. THIS MAY REQUIRE THE USE OF DARK GREY TEXTURED FLAGS IN AREAS OF PRECAST CONCRETE FLAGS.

CROSSING WIDTHS SHOULD BE CHOSEN, WHERE POSSIBLE, TO AVOID THE NECESSITY OF CUT FLAGS.

FLAG WIDTHS SHALL ONLY BE CUT "ON THE SQUARE", AND EQUIDISTANT BETWEEN ROWS OF SURFACE TEXTURING, EXCEPT WHERE AGAINST A BUILDING OR FENCE LINE.

FLAGS SHALL BE LAID SO THAT THE TEXTURE PATTERN IS COINCIDENT WITH THE ALIGNMENT OF THE CROSSING, AND THAT THERE IS A MINIMUM LENGTH OF FLAGS ON THIS ALIGNMENT FOR THE APPROPRIATE LAYOUT.

ITEM COVERAGE TO INCLUDE FOR SUPPLY AND LAYING 25mm COMPACTED THICKNESS OF DESIGNATION (III) DRY MIX MORTAR BEDDING COURSE.

ALL JOINTS SHALL NOT BE LESS THAN 5mm NOR MORE THAN 10mm WIDTH.

JOINTS FOR PRECAST CONCRETE FLAGS SHALL BE FILLED WITH DESIGNATION (I) MORTAR OF A SIMILAR COLOUR TO THE FLAGS AND HOLLOW KEY POINTED.

JOINTS FOR NATURAL STONE FLAGS SHALL BE FILLED WITH A GUN INJECTED, WATER RESISTANT, HIGH STRENGTH, PROPRIETARY MORTAR TO DESIGNATION (I) OF A SIMILAR COLOUR TO THE FLAGS AND HOLLOW KEY POINTED.

FLAGS SHALL BE PROTECTED DURING JOINT FILLING SO THAT MORTAR STAINING OF THE FLAGS ADJACENT TO THE JOINT IS PREVENTED.

CONCRETE INFILL AROUND OBSTRUCTIONS SHOULD NOT EXCEED 25mm IN WIDTH AND SHOULD BE THE FULL DEPTH OF THE FLAG AND SIMILARLY COLOURED.

PAVING FLAG NOTES:

PRECAST CONCRETE FLAGS TO COMPLY WITH BS.EN.1339:2003.

REMOVE FROM SET ASIDE AND RELAY PRECAST CONCRETE FLAG.

ITEM COVERAGE TO INCLUDE FOR SUPPLY AND LAYING 25MM COMPACTED THICKNESS OF DESIGNATION (III) DRY MIX MORTAR BEDDING COURSE.

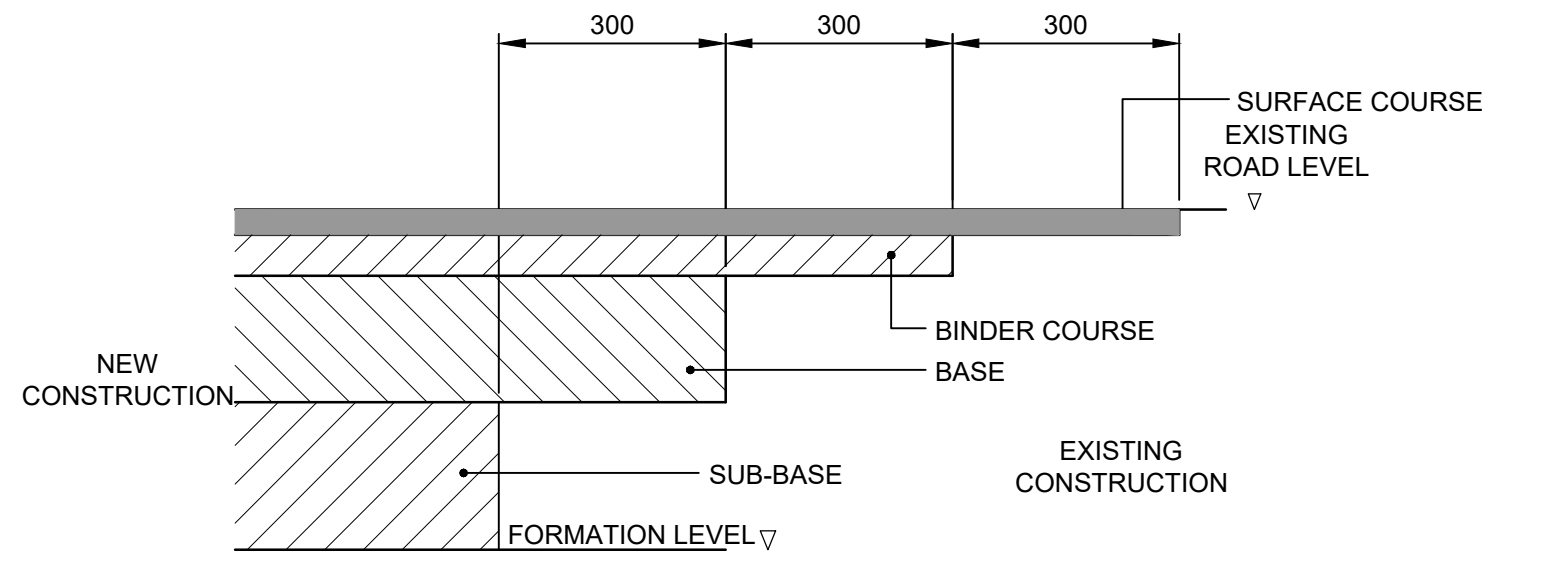
FLAGS SHALL BE LAID TO MATCH EXISTING BOND. THIS MAY BE VARIED WHERE ECONOMICAL USE OF FLAGS DICTATE, BUT SHALL NOT BE LESS THAN 150MM.

ALL JOINTS SHALL NOT BE LESS THAN 5MM NOR MORE THAN 10MM WIDTH.

JOINTS SHALL BE FILLED WITH DESIGNATION (I) MORTAR AND HOLLOW KEY POINTED. WITH COLOURED FLAGS, A SIMILARLY COLOURED MORTAR SHALL BE USED.

FLAGS SHALL BE PROTECTED DURING JOINT FILLING SO THAT MORTAR STAINING OF THE FLAGS ADJACENT TO THE JOINT IS PREVENTED.

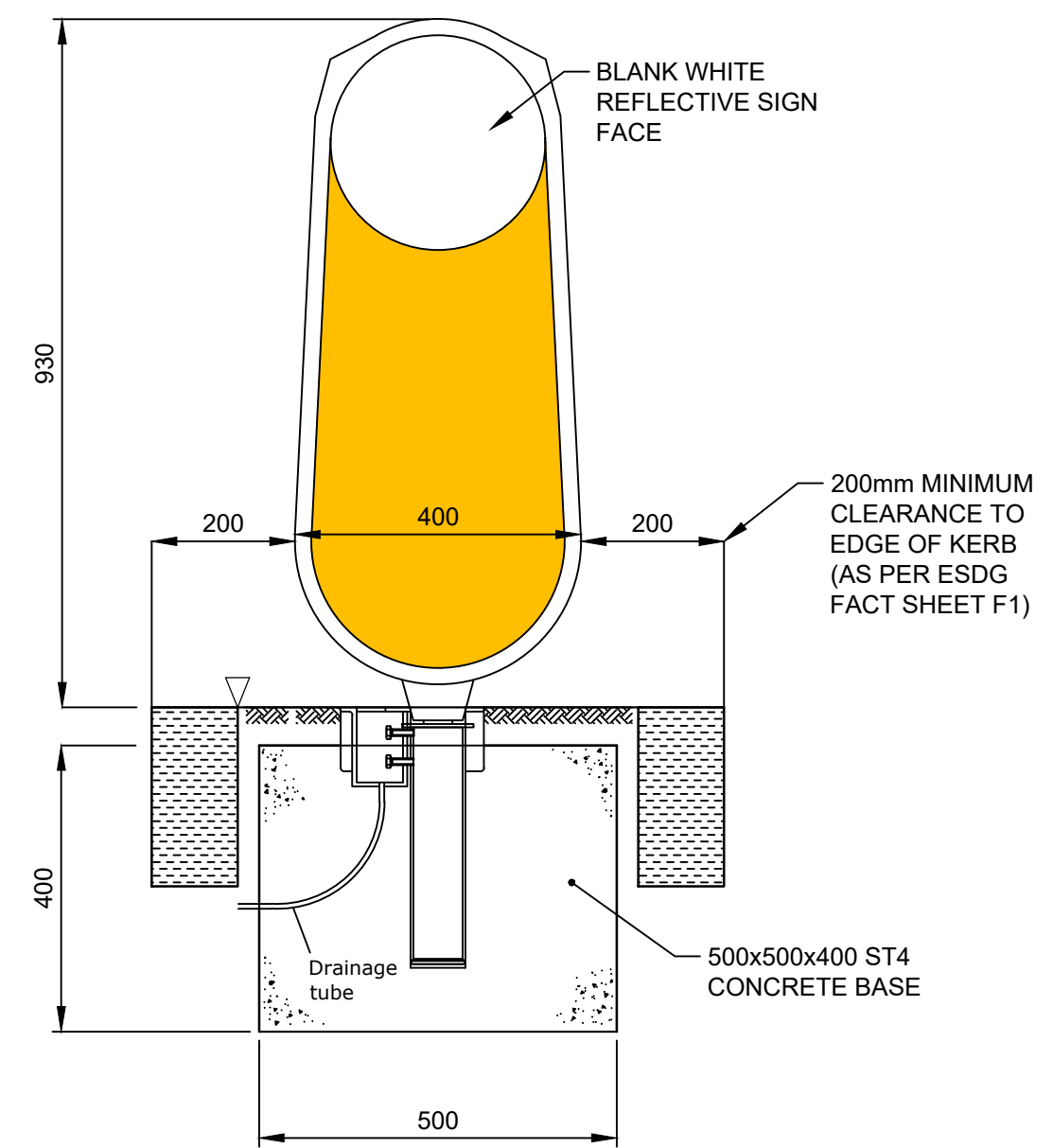
CONCRETE INFILL AROUND OBSTRUCTIONS SHOULD NOT EXCEED 25MM IN WIDTH AND SHOULD BE THE FULL DEPTH OF THE FLAG AND SIMILARLY COLOURED.



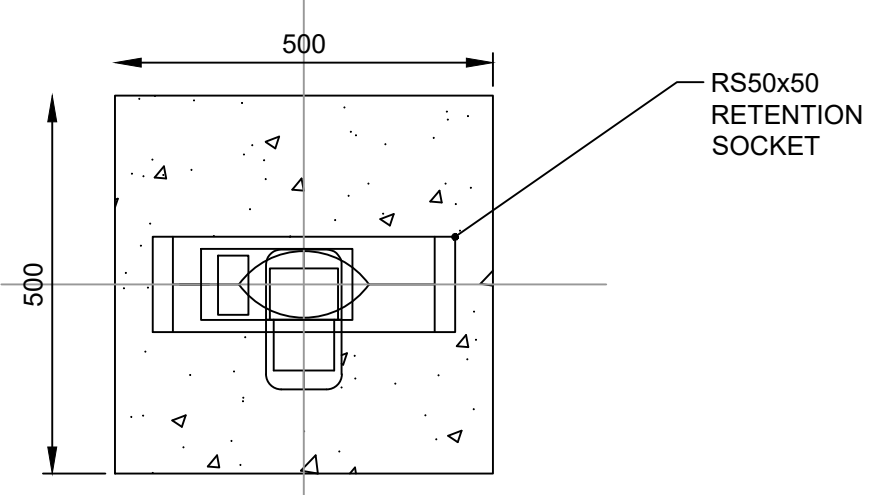
CARRIAGEWAY TIE-IN DETAIL

TIE-IN DETAIL NOTES:

TACK COATS SHALL BE USED FOR BITUMINOUS MATERIALS

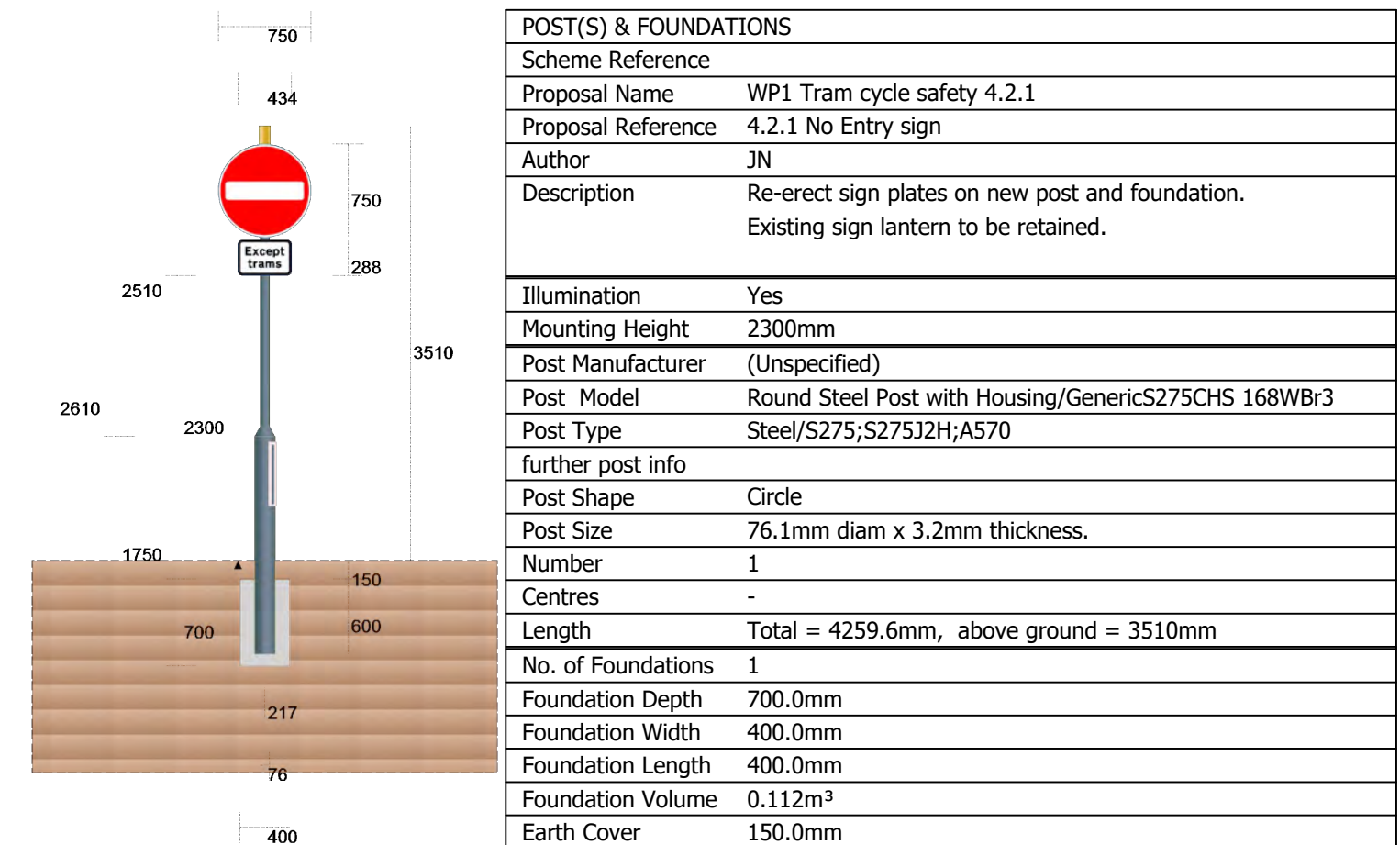


ELEVATION



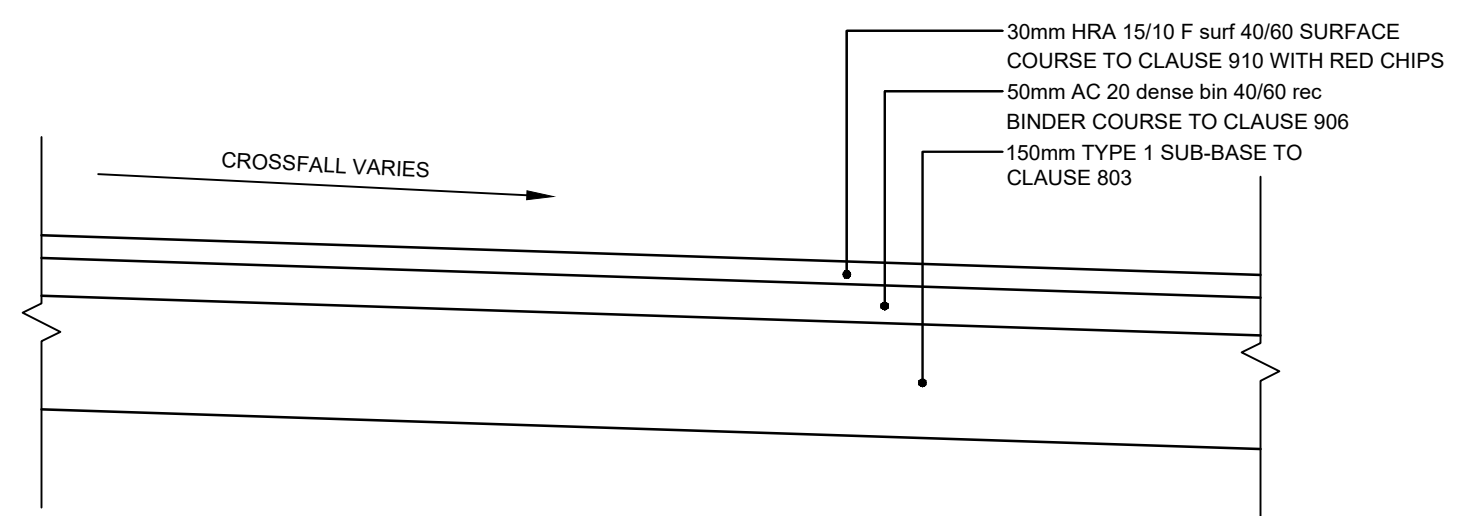
PLAN

TRAFFIC BOLLARD WITH RETENTION SOCKET



DUCTS IN TRENCH DETAIL

SCALE 1:10



CYCLEWAY CONSTRUCTION WITH RED CHIPS - FULL DEPTH

POST(S) & FOUNDATIONS	
Scheme Reference	
Proposal Name	WP1 Tram cycle safety 4.2.1
Proposal Reference	4.2.1 No Entry sign
Author	JN
Description	Re-erect sign plates on new post and foundation. Existing sign lantern to be retained.
Illumination	Yes
Mounting Height	2300mm
Post Manufacturer	(Unspecified)
Post Model	Round Steel Post with Housing/GenericS275CHS 168WBx3
Post Type	Steel/S275/S275J2H/A570
Further post info	
Post Shape	Circle
Post Size	76.1mm diam x 3.2mm thickness.
Number	1
Centres	-
Length	Total = 4259.6mm, above ground = 3510mm
No. of Foundations	1
Foundation Depth	700.0mm
Foundation Width	400.0mm
Foundation Length	400.0mm
Foundation Volume	0.112m³
Earth Cover	150.0mm



PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT



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NOTES

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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
C2	28/03/23	BOLLARD UPDATE
C1	21/03/23	GA & PAVEMENT DETAILS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

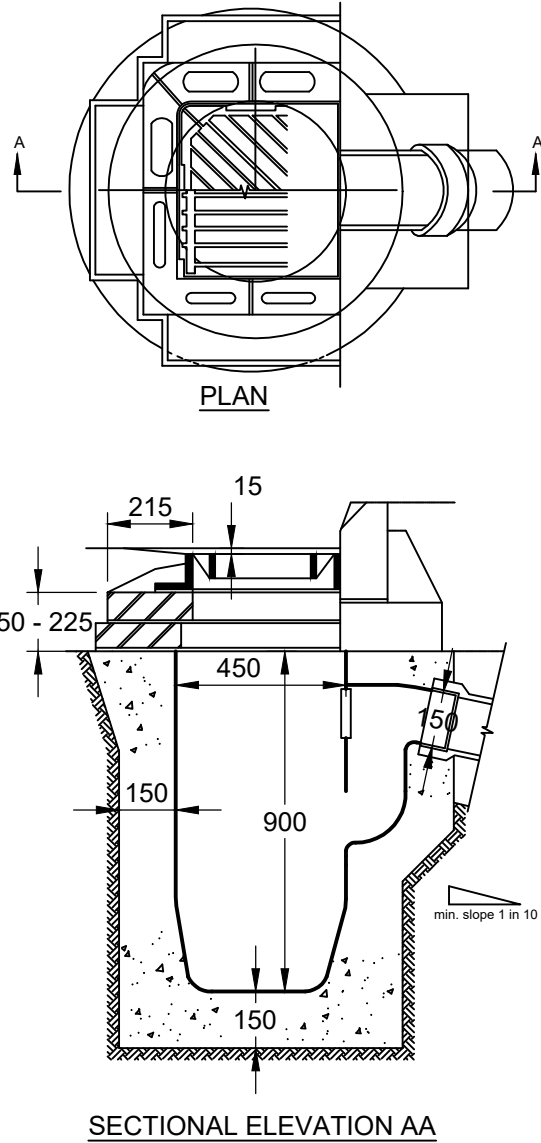
SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET CONSTRUCTION DETAILS 2 OF 4

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0902

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INSITU CONCRETE TRAPPED
STREET GULLY DETAIL
SCALE 1:20

GULLY NOTES:

GULLY POT LINER FORM TO BE PLASTIC.

GULLY POT SHALL BE TRAPPED AND BE PROVIDED WITH A RODDING EYE STOPPER.

GULLY FORM TO BE SURROUNDED BY 150MM MINIMUM THICKNESS OF MIX ST4 CONCRETE.

2 TO 3 COURSES OF HD TYPE CLASS B CLAY ENGINEERING BRICK TO BS.EN.771-1:2003 OR CONCRETE BRICKS TO BS.EN.771-3 & 2:2003 TO BE PROVIDED AS A SEATING FOR GULLY FRAME. CORBELLING SHALL NOT EXCEED 30MM ON EACH COURSE.

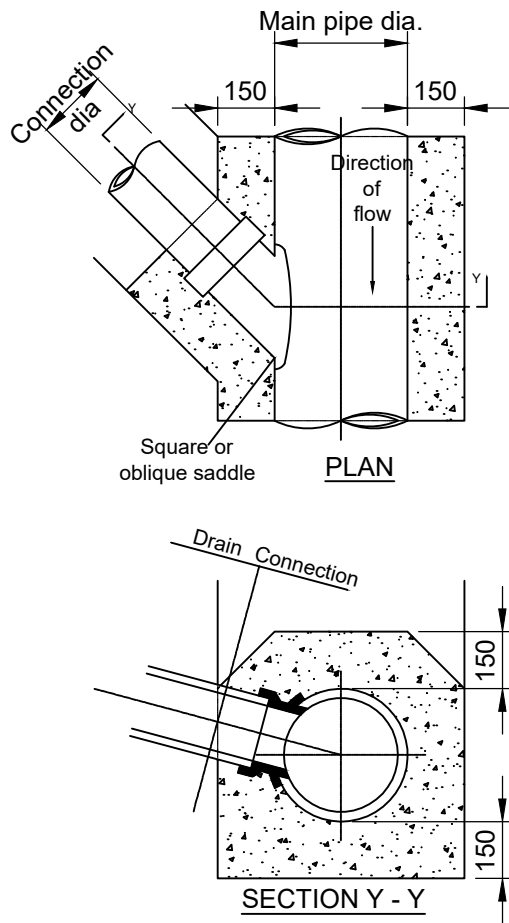
ALL MORTAR SHALL BE A PROPRIETARY QUICK SETTING MORTAR OR EPOXY RESIN MORTAR, AS APPROVED BY THE PROJECT MANAGER.

WITH THE PROJECT MANAGER'S APPROVAL, AS AN OPTION TO A BRICKWORK SEATING FOR THE GULLY FRAME, A CONCRETE CAST INSITU SEATING INTEGRAL WITH THE POT SURROUND MAY BE USED, OR A PRECAST CONCRETE GULLY SEATING SLAB OF CLASS 30/20 CONCRETE. THE APERTURE IN THESE SEATINGS SHALL NOT BE GREATER THAN THE MINIMUM OPENING DIMENSION OF THE GULLY FRAME. ALL CONCRETE SHALL HAVE A SMOOTH FINISH TO CLASS F2 OR U3.

GULLY GRATING AND FRAME TO BE TO BS.EN.124:1994 CLASS D400. GRATING TO BE EITHER DOUBLE TRIANGULAR OR HINGED WITH A CAPTIVE SYSTEM TO PREVENT UNAUTHORISED REMOVAL.

GULLY GRATING TO BE SET WITH TOP EDGE 15MM BELOW NOMINAL LEVEL OF ROAD SURFACE AND SLOPING WITH THE CARRIAGEWAY CROSSFALL.

GULLY FRAME TO BE BEDDED ON, AND HAUNCHED WITH MORTAR AS PREVIOUSLY DESCRIBED, AND POSITIONED CENTRALLY OVER GULLY POT AND ABUTTING WITH THE KERB FACE.



SADDLE CONNECTION TO
EXISTING DRAIN NOTES

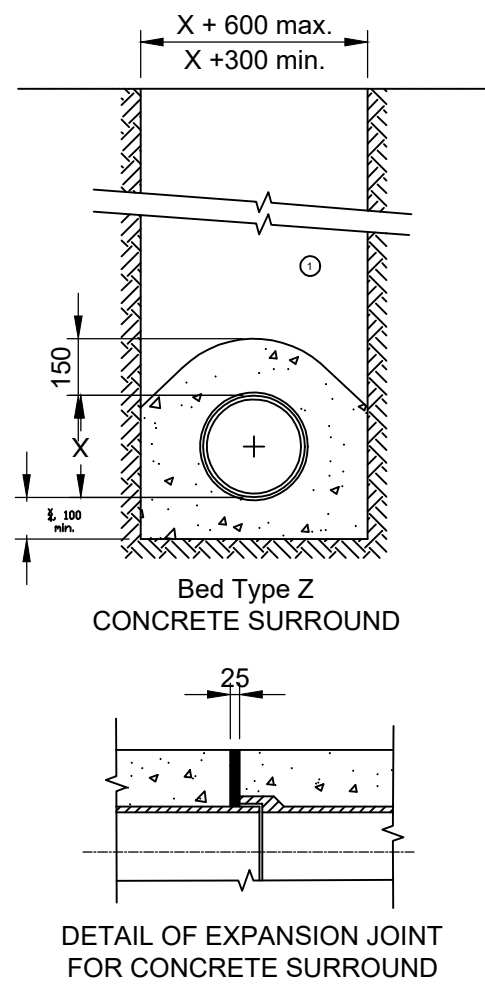
ALL JOINTS TO BE WATERTIGHT.

SADDLES WITH CLAY PIPE SHALL BE JOINTED WITH MORTAR DESIGNATION (I) TO CLAUSE 2404.

SADDLES AND PIPES SHALL BE SURROUNDED WITH CONCRETE MIX ST2.

MATERIAL TO BE WELL COMPACTED SUITABLE MATERIAL.

SADDLE CONNECTION TO
EXISTING DRAIN DETAIL
SCALE 1:20



PIPE CONSTRUCTION IN TRENCH
WITH CONCRETE SURROUND
DETAIL
SCALE 1:20

PIPE SURROUND NOTES:

MATERIAL 1 TO BE WELL COMPACTED ACCEPTABLE MATERIAL.

CONCRETE SURROUND SHALL BE MIX ST2 CONCRETE 150MM. THICK, FORMED TO RADIUS, BATTER OR HORIZONTAL SURFACE.

THE CONCRETE SURROUND MAY EXTEND TO THE SIDES OF THE TRENCH, OR BE OF MINIMUM WIDTH. ACCEPTABLE MATERIAL IS TO BE USED TO FILL ANY VOIDS SO FORMED.

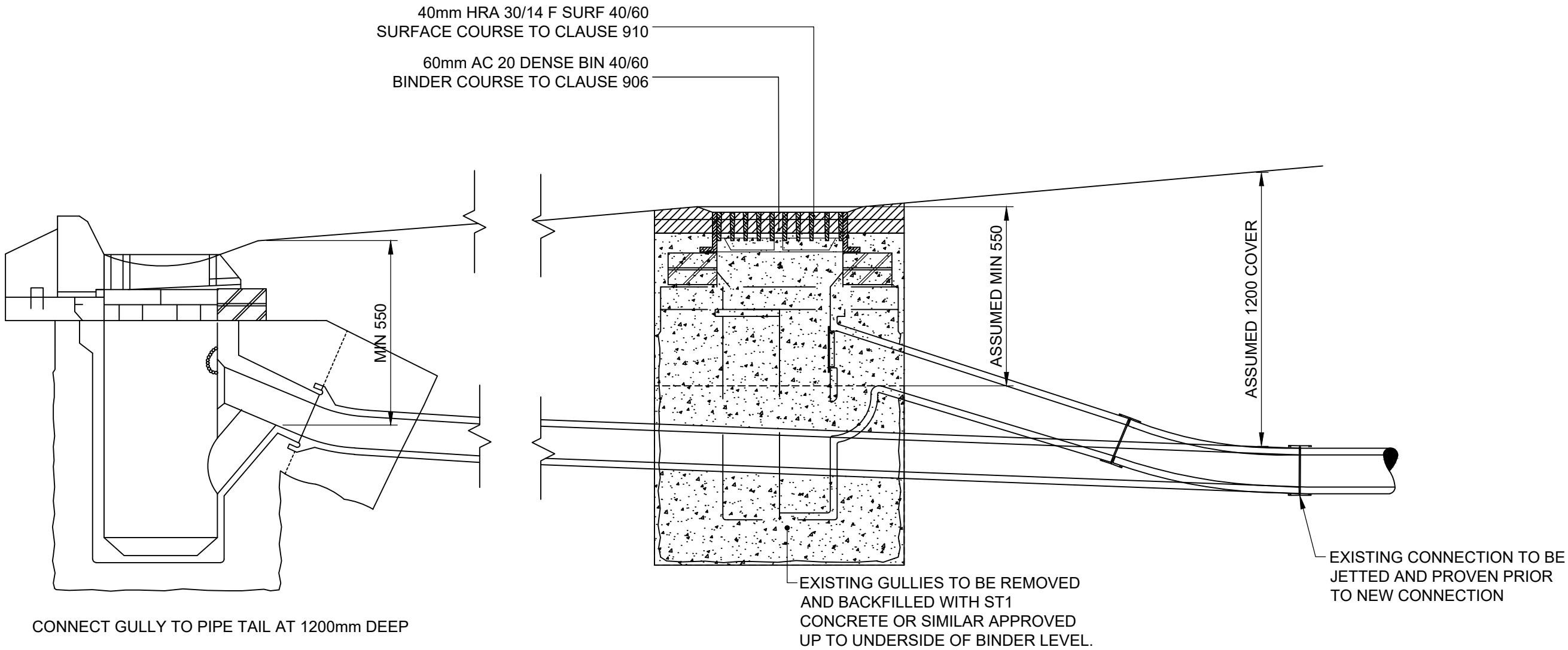
ON PIPELINES WITH FLEXIBLE JOINTS A JOINT FILLER BOARD SHALL BE PLACED IN CONTACT WITH THE END OF THE SOCKET AT A PIPE JOINT. JOINTS SHALL BE AT INTERVALS NOT EXCEEDING 5 METRES. THE INGRESS OF CEMENT TO THE JOINT SHALL BE PREVENTED BY WRAPPING WITH POLYTHENE OR ADHESIVE TAPE.

WHEN NON RIGID PIPELINES HAVE A SECTION WITH CONCRETE SURROUND, A FLEXIBLE JOINT OR COUPLER MUST BE PROVIDED TO ALLOW ANGULAR DEFLECTION BETWEEN THE NON RIGID AND RIGID COMPONENTS.

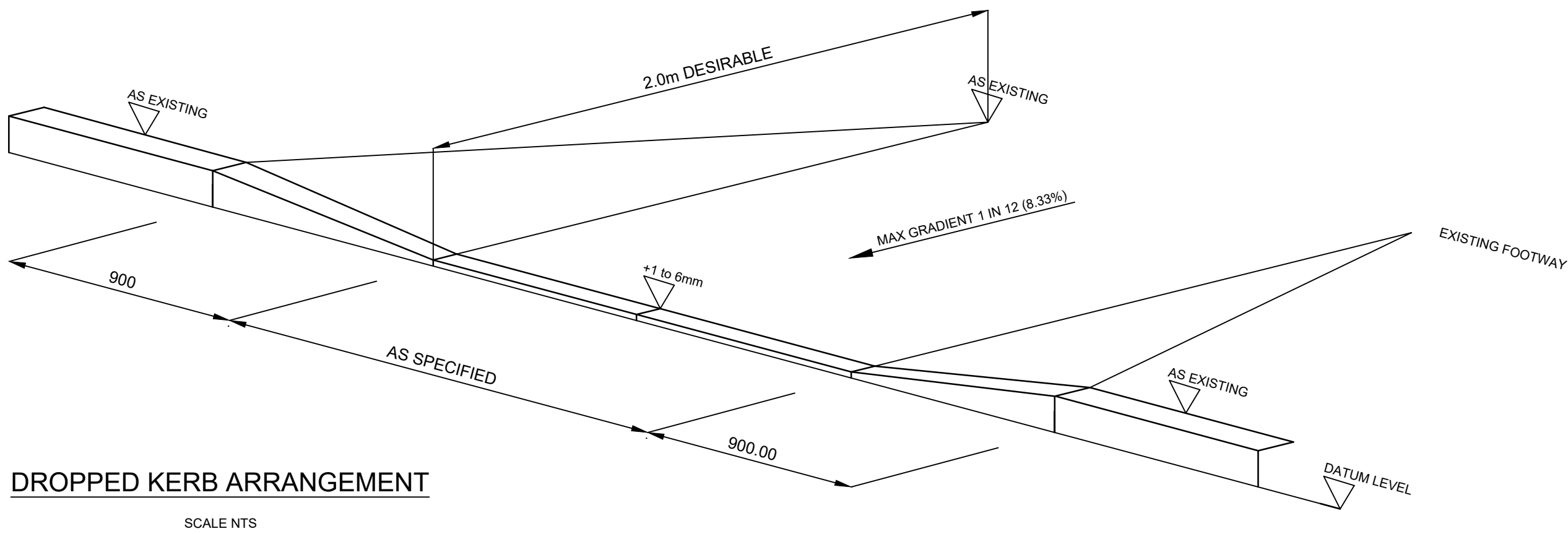
THE MINIMUM OR MAXIMUM WIDTH OF TRENCH APPLIES ON AND BELOW A LINE 300MM. ABOVE THE OUTSIDE TOP OF THE PIPE. IF TRENCH WIDTHS IN EXCESS OF THOSE SPECIFIED ARE USED, CONSIDERATION WILL HAVE TO BE GIVEN TO GREATER PIPE STRENGTHS DUE TO INCREASED BACKFILL LOADINGS.

PIPES TO BE CENTRED IN TRENCH.

ALL JOINTS SHALL BE WATERTIGHT.



TYPICAL NEW GULLY TIE-IN DETAIL
SCALE 1:20



DROPPED KERB ARRANGEMENT
SCALE NTS



Scheme Ref.	Tram Cycle Safety		
Sign Ref.	NEW CYCLE SIGNALS AHEAD	x-height	50.0
Letter colour	BLACK	SIGN FACE	
Background	YELLOW	Width	575 mm
Border	BLACK	Height	485 mm
Material	Class R3B-UK	Area	0.28 m²

PROJECT

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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

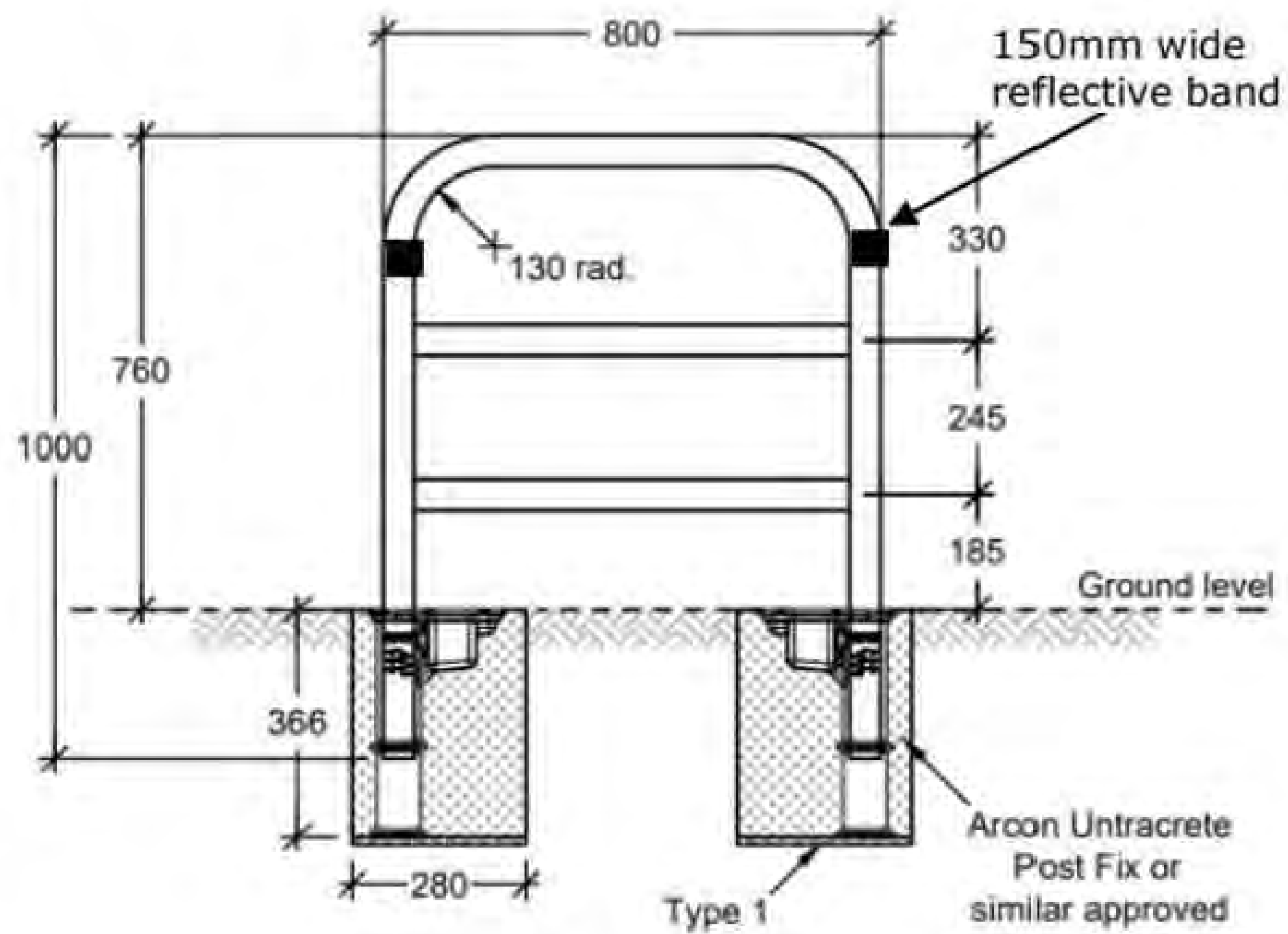
4.2.1 PRINCES STREET & JUNCTION
WITH SOUTH ST. ANDREW STREET
CONSTRUCTION DETAILS 3 OF 4

SHEET NUMBER

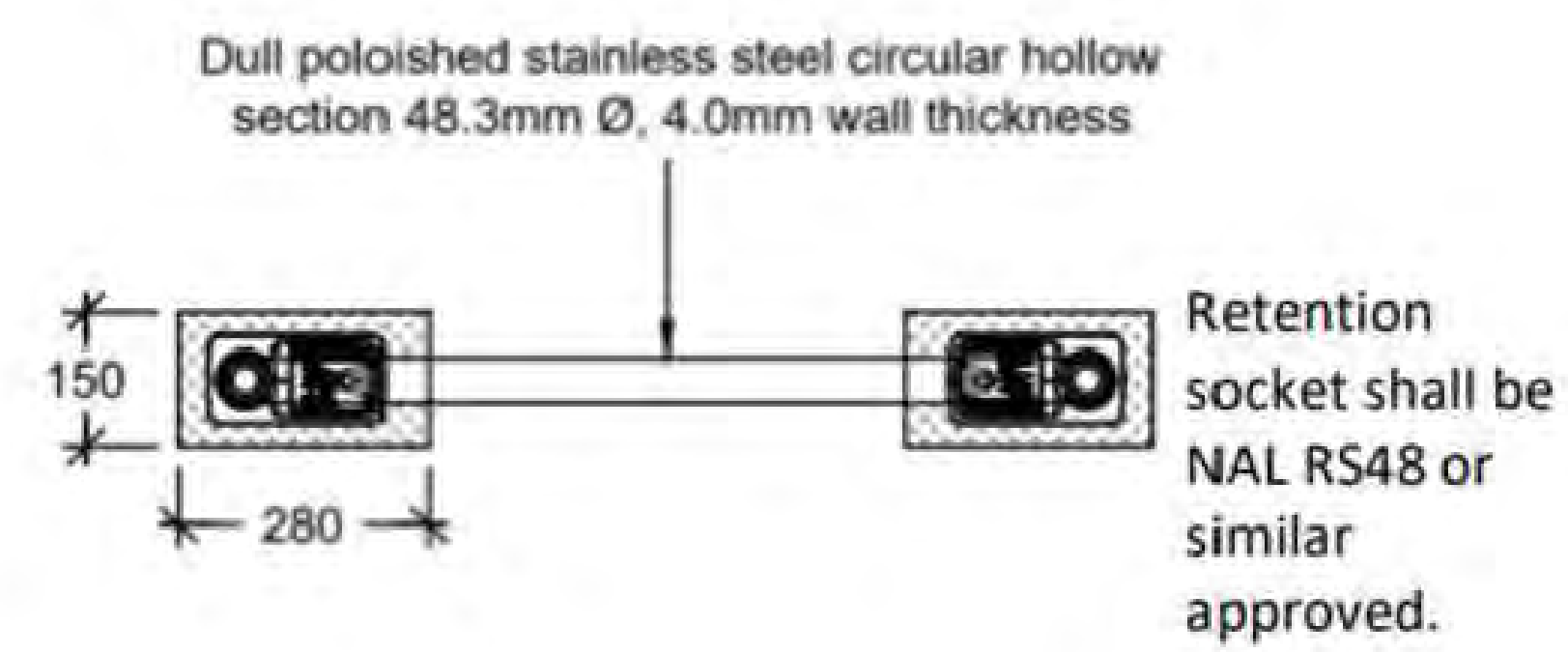
60487449-DD-C-WP1-4.2.1-0903

File name: \\WA.AECOM\NET\COM\FS\E\A\EDINBURGH\UK\ED4\LEGACY\UKED4\FR002\VTTP\PROJECTS\TRAFFIC - DEC WALK CYCLE WP1\03 EXECUTION\CAD\20-SHEETS\4.0 - TRAM\4.2.1\60487449-DD-C-WP1-4.2.1-0901-0902-0903 (AB1).DWG
Last saved by: JOE.NICHOLAS Last Potted: 2023-05-01

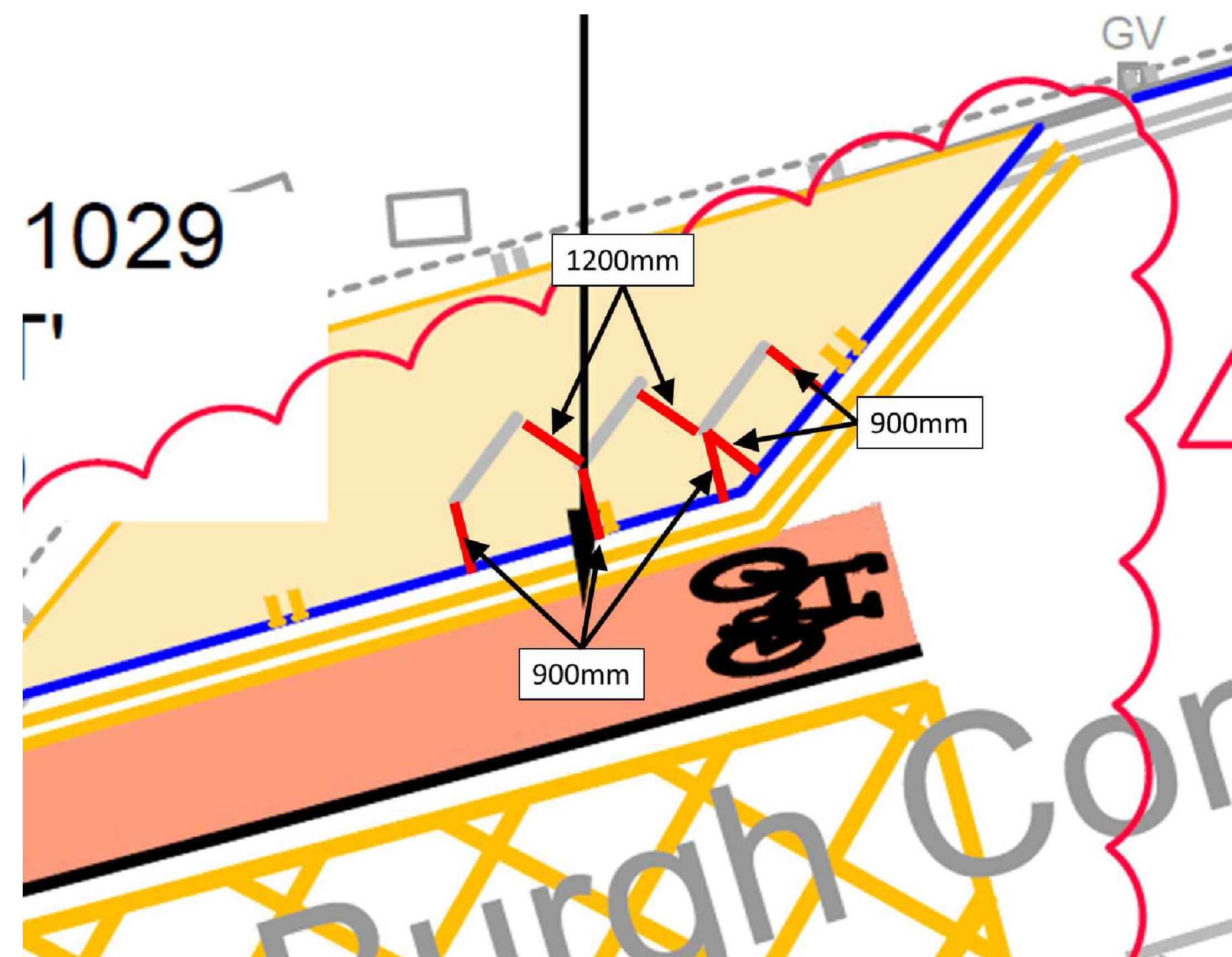
Project Management Initials: Designer: JN Checked: JN Approved: PM ISO A1 594mm x 841mm



**SHEFFIELD BIKE STAND
ELEVATION**
(EDINBURGH STREET DESIGN GUIDANCE
FACTSHEET C7)



**SHEFFIELD BIKE STAND
VIEW**
(EDINBURGH STREET DESIGN GUIDANCE
FACTSHEET C7)



**SHEFFIELD BIKE STAND
LAYOUT**

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AECOM

PROJECT
**CYCLE AND
WALKING
IMPROVEMENTS ON
TRAM ROUTE**

CLIENT

EDINBURGH
THE CITY OF EDINBURGH COUNCIL

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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
C2	21/03/23	GA & PAVEMENT DETAILS UPDATE
C1	27/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

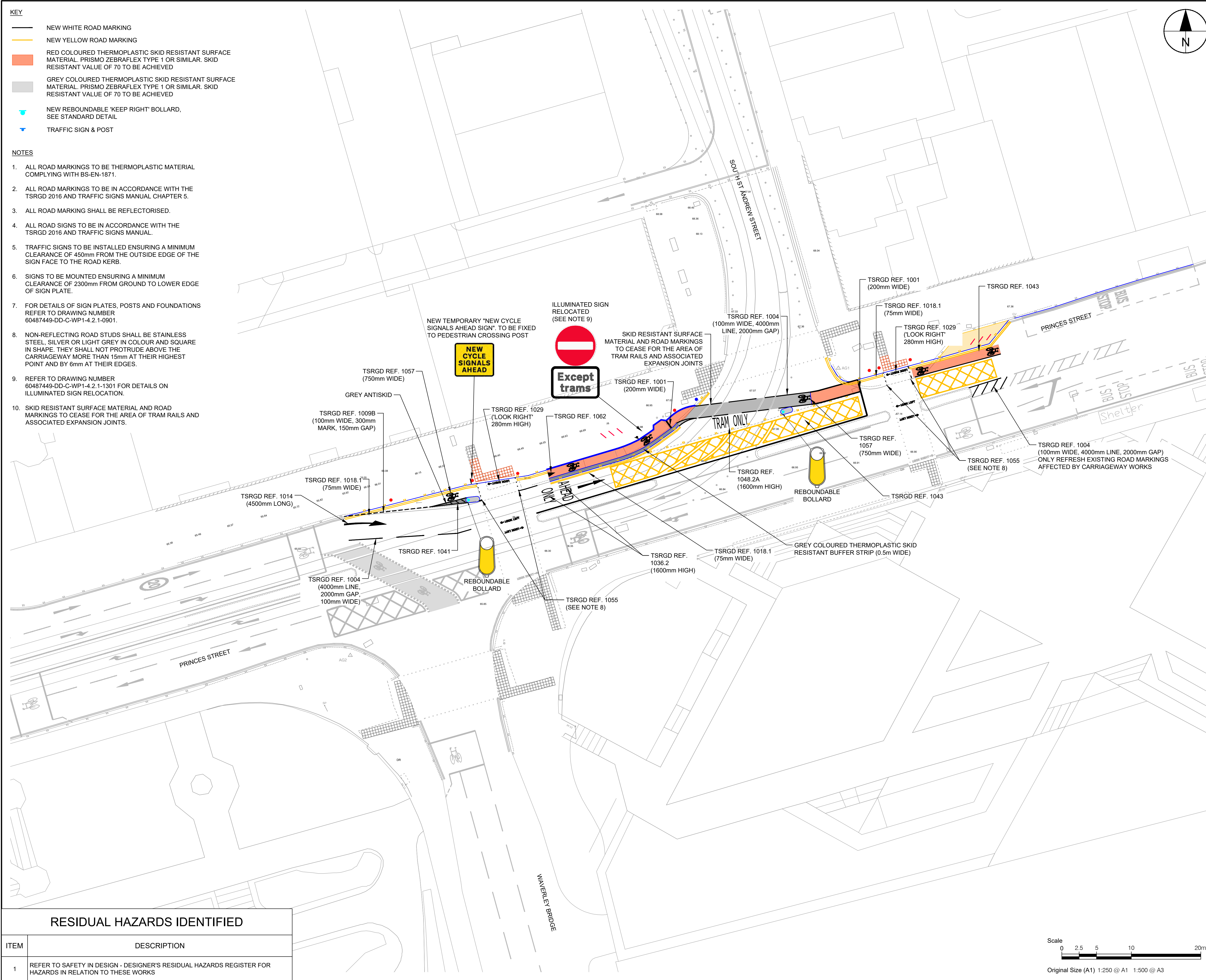
4.2.1 PRINCES STREET & JUNCTION
WITH SOUTH ST. ANDREW STREET
CONSTRUCTION DETAILS 4 OF 4

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-0904

Filename: I:\A\AECOM\NET\COM\FS\NEW\EDINBURGH\UKED4\LEGACY\UKED4\PR02\VTTP\PROJECTS\TRAFFIC - CEC WALK CYCLE WP1\03 EXECUTION\CAD\20-SHEETS\4.0 - TRAM\4.2.160487449-DD-C-WP1-4.2.1-1201 (A3).DWG
Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-02

ISO A1 594mm x 841mm
Approved: PM
Checked: JN
Designer: JN
Project Management Initials:



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PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT



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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
C2	22/03/23	GA & PAVEMENT DETAILS UPDATE
C1	16/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET TRAFFIC SIGNS & ROAD MARKINGS

SHEET NUMBER

60487449-DD-C-WP1-4.2.1-1201

KEY

NEW 3 ASPECT LOW LEVEL CYCLE SIGNAL HEAD WITH AHEAD ONLY BOX SIGN

NEW TRAFFIC SIGNAL POLE

NEW STUB TRAFFIC SIGNAL POLE

NEW CYCLE TRAFFIC SIGNAL POLE

NEW PRIMARY 3-ASPECT SIGNAL HEAD

NEW SECONDARY 3-ASPECT SIGNAL HEAD

NEW SECONDARY 3-ASPECT SIGNAL HEAD WITH STRAIGHT AHEAD ARROW GREEN ASPECT

NEW SECONDARY 3-ASPECT SIGNAL HEAD WITH RIGHT ARROW GREEN ASPECT

NEW SECONDARY 3-ASPECT SIGNAL HEAD WITH LEFT ARROW GREEN ASPECT

NEW FAR SIDE PEDESTRIAN DISPLAY UNIT RIGHT HUNG

NEW MICROWAVE VEHICLE DETECTOR

NEW DEMAND UNIT

NEW RETENTION SOCKET

POLE NUMBER

PHASE LETTER

EXISTING TRAFFIC SIGNAL POLE

EXISTING OLE POLE

EXISTING PRIMARY 3-ASPECT TRAFFIC SIGNAL HEAD

EXISTING SECONDARY 3-ASPECT SIGNAL HEAD

EXISTING PRIMARY 3-ASPECT SIGNAL HEAD WITH STRAIGHT AHEAD ARROW GREEN ASPECT

EXISTING SECONDARY 3-ASPECT SIGNAL HEAD WITH STRAIGHT AHEAD ARROW GREEN ASPECT

EXISTING PRIMARY 3-ASPECT SIGNAL HEAD WITH RIGHT ARROW GREEN ASPECT

EXISTING SECONDARY 3-ASPECT SIGNAL HEAD WITH RIGHT ARROW GREEN ASPECT

EXISTING PRIMARY 3-ASPECT SIGNAL HEAD WITH LEFT ARROW GREEN ASPECT

EXISTING PRIMARY 3-ASPECT TRAFFIC SIGNAL HEAD AND TRAM SIGNAL

EXISTING PRIMARY 3-ASPECT SIGNAL HEAD WITH RIGHT ARROW GREEN ASPECT AND TRAM SIGNAL

EXISTING TRAM SIGNAL

EXISTING NO RIGHT TURN BOX SIGN

EXISTING PHOTO-ELECTRIC CELL

EXISTING FAR SIDE PEDESTRIAN DISPLAY UNIT RIGHT HUNG

EXISTING MICROWAVE VEHICLE DETECTOR

EXISTING DEMAND UNIT

EXISTING TRAFFIC SIGNAL CONTROLLER

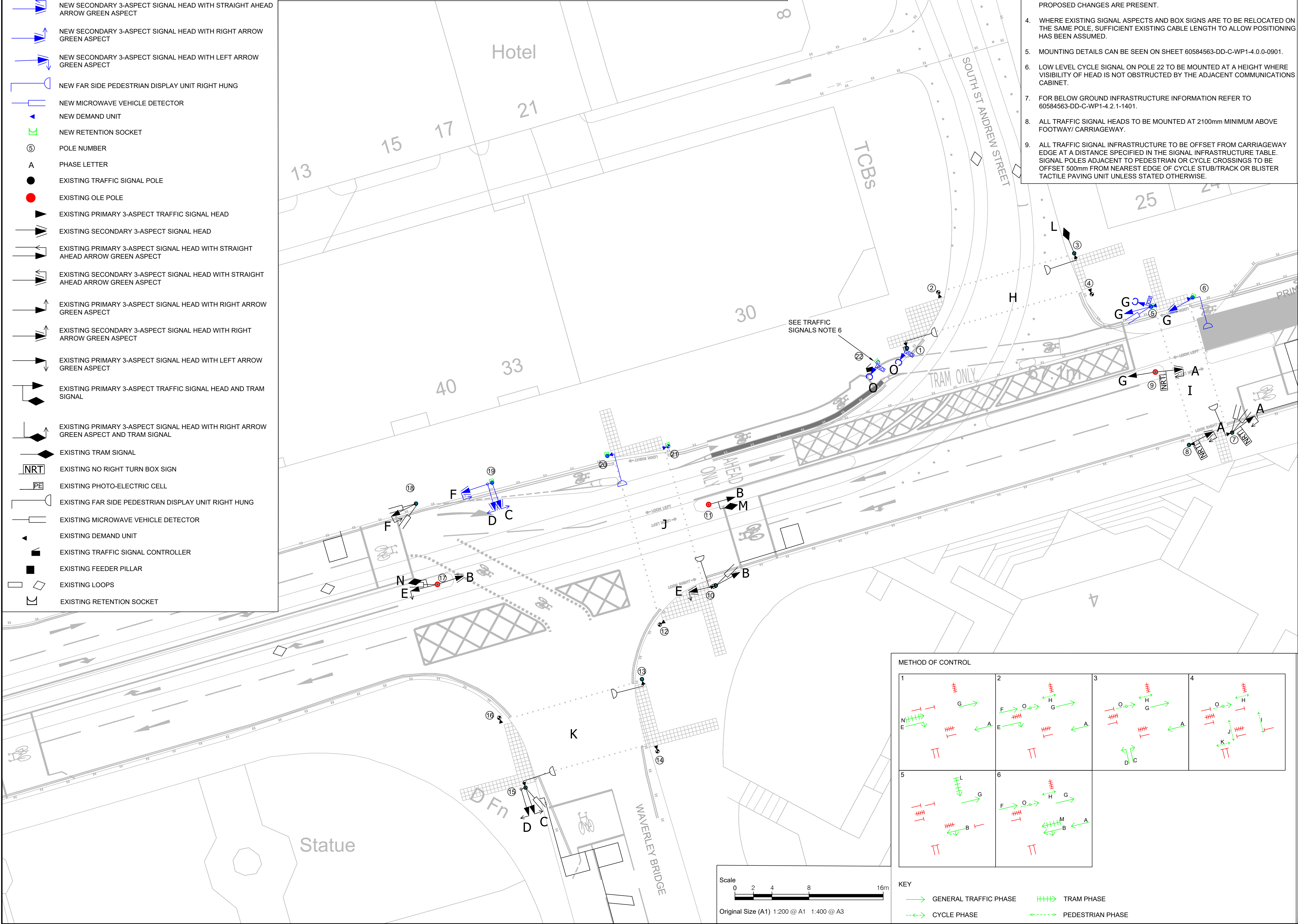
EXISTING FEEDER PILLAR

EXISTING LOOPS

EXISTING RETENTION SOCKET

AMENDED SIGNAL INFRASTRUCTURE												
Pole no	Pole Type	Distance from Kerb face to pole (mm)	Retention Socket Type/Size	Primary Signal Head 3 Aspect	Secondary Signal Head 3 Aspect	Cycle Signal	Low Level Cycle Head 3 Aspect	Box Sign	Tram Signal	Demand Unit	Far side Display Unit	Microwave Vehicle Detector
1	Straight 4m			No	No	No	Yes	Yes	No	Yes	Yes	No
5	Straight 4m	800mm	RS115DFx600	Yes	No	No	Yes	Yes	No	Yes	No	Yes
6	Straight 4m	600mm	RS115DFx600	No	Yes	No	No	No	No	Yes	Yes	No
19	Straight 4m	800mm	RS115DFx600	No	Yes (x3)	No	No	No	No	No	No	No
20	Straight 4m	600mm	RS115DFx600	No	No	No	No	No	No	Yes	Yes	No
21	Stub 2.5m	600mm	RS115DFx600	No	No	No	No	No	No	Yes	No	No
22	Cycle Pole	450mm	RS115DFx600	No	No	No	Yes	Yes	No	No	No	No

Cells in grey indicate existing equipment to be retained.



- TRAFFIC SIGNALS NOTES
1.

THE CURRENT REQUIREMENT FOR SIGNAL ASPECTS IS THAT THEY SHALL BE ALL LED TYPE. SIGNAL CONTROLLERS AND INSTALLATION CABLES WILL BE EXTRA LOW VOLTAGE (ELV) UNLESS OTHERWISE AGREED BY CITY OF EDINBURGH COUNCIL. IN ADDITION ONLY EQUIPMENT APPROVED BY CITY OF EDINBURGH COUNCIL'S TRAFFIC SIGNALS TEAM WILL BE PERMITTED FOR USE ON THE ROAD.
2.

EXISTING TRAFFIC SIGNAL INFRASTRUCTURE AND INFORMATION RECEIVED FROM OTHERS, SURVEY CARRIED OUT BY OTHERS. AECOM CANNOT GUARANTEE THEIR ACCURACY. CONTRACTOR TO SATISFY THEMSELVES AS TO THE ACCURACY OF SUCH INFORMATION.
3.

EXISTING INFRASTRUCTURE HAS ONLY BEEN ASSESSED AND UPDATED WHERE PROPOSED CHANGES ARE PRESENT.
4.

WHERE EXISTING SIGNAL ASPECTS AND BOX SIGNS ARE TO BE RELOCATED ON THE SAME POLE, SUFFICIENT EXISTING CABLE LENGTH TO ALLOW POSITIONING HAS BEEN ASSUMED.
5.

MOUNTING DETAILS CAN BE SEEN ON SHEET 60584563-DD-C-WP1-4.0.0-0901.
6.

LOW LEVEL CYCLE SIGNAL ON POLE 22 TO BE MOUNTED AT A HEIGHT WHERE VISIBILITY OF HEAD IS NOT OBSTRUCTED BY THE ADJACENT COMMUNICATIONS CABINET.
7.

FOR BELOW GROUND INFRASTRUCTURE INFORMATION REFER TO 60584563-DD-C-WP1-4.2.1-1401.
8.

ALL TRAFFIC SIGNAL HEADS TO BE MOUNTED AT 2100mm MINIMUM ABOVE FOOTWAY/ CARRIAGEWAY.
9.

ALL TRAFFIC SIGNAL INFRASTRUCTURE TO BE OFFSET FROM CARRIAGEWAY EDGE AT A DISTANCE SPECIFIED IN THE SIGNAL INFRASTRUCTURE TABLE. SIGNAL POLES ADJACENT TO PEDESTRIAN OR CYCLE CROSSINGS TO BE OFFSET 500mm FROM NEAREST EDGE OF CYCLE STUB/TRACK OR BLISTER TACTILE PAVING UNIT UNLESS STATED OTHERWISE.

METHOD OF CONTROL

1

2

3

4

5

6

KEY

GENERAL TRAFFIC PHASE

CYCLE PHASE

TRAM PHASE

PEDESTRIAN PHASE



PROJECT

CYCLE AND WALKING IMPROVEMENTS ON TRAM ROUTE

CLIENT



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- NOTES
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ALL WORKS TO BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS - THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, DESIGN MANUAL FOR ROADS AND BRIDGES, TRAFFIC SIGNS MANUAL AND LOCAL COUNCIL GUIDELINES.
2.

ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE. ALL LEVELS ARE IN METRES AND RELATE TO ORDNANCE DATUM.
3.

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ALL WORKS BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY AT WORK ACT ARE SATISFIED.
6.

ALL WORK IS TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF THE STATUTORY AUTHORITIES AND CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.
7.

DRAWING BASE RECEIVED FROM OTHERS, SURVEY CARRIED OUT BY OTHERS. AECOM CANNOT GUARANTEE THEIR ACCURACY. CONTRACTOR TO SATISFY THEMSELVES AS TO THE ACCURACY OF SUCH INFORMATION.

ISSUE/REVISION		
C2	30/3/2023	BACKGROUND UPDATES
C1	01/03/2023	ISSUED FOR CONSTRUCTION
C0	19/08/2022	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60584563

SHEET TITLE

PRINCES STREET / WAVERLEY BRIDGE ABOVE GROUND TRAFFIC SIGNALS INFRASTRUCTURE

SHEET NUMBER

60584563-DD-C-WP1-4.2.1-1202

Filename: I:\A\AECOM\NET\COM\FS\VIEW\A\EDINBURGH\UKED4\LEGACY\UKED4\PROJECTS\TRAFFIC - CEC WALK CYCLE WP1\03 EXECUTION\CAD\20-SHEETS\4.0 - TRAM\4.2.160487449-DD-C-WP1-4.2.1-1301 (A3).DWG
Last saved by: JOE.NICHOLAS Last Plotted: 2023-05-01

ISO A1 594mm x 841mm
Approved: PM
Checked: PM
Designer: JN
Project Management Initials:

- KEY
- EXISTING EXTERNALLY ILLUMINATED SINGLE ASPECT SIGN POST
- PROPOSED EXTERNALLY ILLUMINATED SINGLE ASPECT SIGN POST
- PROPOSED ROUTE OF NEW/MODIFIED DUCT & CABLE - 6mm² 3C PVC/SWA/PVC/XLPE CABLE LAID WITHIN 100Ø HDPE PUPLE STREET LIGHTING DUCT AT A DEPTH OF 450mm IN FOOTWAYS/VERGES AND 650mm IN CARRIAGE WAY.

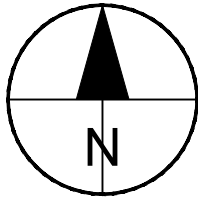
NOTES

1. POINT OF SUPPLY FOR EXISTING ILLUMINATED SIGN UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING POINT SUPPLY ON SITE AND ENSURING THE NEW SIGN IS REWIRED BACK TO THIS POINT.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS, SCHEDULES AND SPECIFICATIONS.
3. THE ELECTRICAL INSTALLATION SHALL COMPLY WITH BS 7671 : 2008 AND ALL SUBSEQUENT AMENDMENTS.
4. ALL EXISTING INFORMATION ON THIS DRAWINGS HAS BEEN COMPILED FROM EXISTING RECORD DRAWINGS. THE AIM IS TO ASSIST IN THE UNDERSTANDING OF THE SCOPE OF WORKS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SURVEY THE EXISTING INSTALLATION AND ESTABLISH THE COMPLETE SCOPE OF THE WORKS.
5. THE EXACT POSITION OF ALL NEW LIGHTING APPARATUS WILL BE MARKED UP ON SITE BY THE DESIGNERS AND A REPRESENTATIVE OF THE COUNCILS STREET LIGHTING DEPARTMENT. SUFFICIENT NOTICE MUST BE GIVEN TO THE COUNCIL'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS OF CEC LIGHTING, ENVIRONMENTAL AND CONSUMER SERVICES DEPARTMENT REGARDING TEMPORARY LIGHTING PRIOR TO COMMENCEMENT OF WORKS ON SITE.
7. ALL SUPPLY PILLARS, COLUMNS, BOLLARDS, SIGNPOLES & PLATES ETC. SHALL BE CLEANED AFTER ERECTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING AND MAKING GOOD ALL SURFACES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NEW STREET LIGHTING UNIT NUMBERS ON ALL NEW LIGHTING ASSETS TO COMPLY WITH STANDARD DRAWING CEC13/10/21 & INSTALLED AS PER STANDARD DRAWING CEC13/01/06.
10. CEC STREET LIGHTING DEPARTMENT WILL ISSUE THE CORRECT UNIT REFERENCE ONCE REQUESTED AT STREETLIGHTING@EDINBURGH.GOV.UK
11. NOTE: IT MUST BE ASSUMED THAT 'LIVE' SERVICES ARE PRESENT UNDERGROUND - SEE HEALTH & SAFETY GUIDANCE NOTE HSG47 'AVOIDING DANGER FROM UNDERGROUND SERVICES' AND NJUG PUBLICATIONS Nos 3, 7 & 8.
12. NOTE: STREET LIGHTING MARKER TAPE TO BE INSTALLED ALONG THE LENGTH OF AND ABOVE THE LINE OF THE CABLE, 150mm BELOW FINISHED GROUND LEVEL AND ALL DUCTING IS TO BE WITNESSED BY CEC LIGHTING.
13. WHERE ANY LIGHTING APPARATUS IS AFFECTED BY NEW WORKS OR UPGRADES AND WHERE ANY CABLE LOOP IS TERMINATED, THE EARTH CONDUCTOR AND THE CABLES SWA SHALL BE LINKED WITH A 10mm² TRI-RATED EARTH CONTINUITY CONDUCTOR TO BS 6231.
14. WHERE WORK IS BEING CARRIED OUT ON EXISTING LIGHTING APPARATUS, THE SUPPLY TO THE PARTICULAR APPARATUS MUST BE ISOLATED PRIOR TO ANY WORKS COMMENCING, THIS MUST BE DONE UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE COUNCIL'S LIGHTING SECTION.
15. THE CONTRACTOR MUST ENSURE THAT ALL THE LIGHTING INSTALLATION WORKS ARE CLOSELY MONITORED, INSPECTED AND TESTED BY A REPRESENTATIVE OF THE CITY OF EDINBURGH COUNCIL'S LIGHTING SECTION.
16. THE CONTRACTOR MUST CONFORM WITH THE HEALTH & SAFETY AT WORK ACT 1974, THE SAFETY AT STREET WORKS AND ROAD WORKS - CODE OF PRACTICE AND ALL OTHER RELEVANT STATUTORY INSTRUMENTS.
17. EXTENSIONS OR ALTERATIONS TO EXISTING (OLD CABLE COLOURS) SINGLE-PHASE INSTALLATIONS REQUIRE A SUITABLE CAUTION LABEL FIXED ONTO DISTRIBUTION BOARD WITHIN SUPPLY PILLAR OR BACK BOARD WITHIN SUPPLY LIGHTING COLUMN.
18. CABLES SHALL NOT BE JOINTED UNDER ANY CIRCUMSTANCES, CABLES THAT REQUIRE EXTENSION SHALL BE REWIRED FROM THEIR POINT OF SUPPLY.
19. ONLY SERVICES DIRECTLY RELEVANT TO THE WORKS HAVE BEEN SHOWN ON THIS DRAWING. REFER TO DRAWING 60487449-DD-C-WP1-4.2.1-0101 FOR ADDITIONAL INFORMATION REGARDING EXISTING PUBLIC UTILITIES.

PROPOSED LOCATION OF RELOCATED ILLUMINATED SIGN. SIGN PLATES AND SIGN LIGHT TO BE REMOVED FROM SET ASIDE AND RE-ERECTED ON NEW POST. (REFER TO DRAWING 60487449-DD-C-WP1-4.2.1-0902 FOR NEW POST AND FOUNDATION DETAILS). TRAFFIC SIGN TO BE INSTALLED ENSURING A MINIMUM LATERAL CLEARANCE OF 0.45m FROM THE OUTSIDE EDGE OF THE SIGN FACE TO THE ROAD KERB. THE EXACT LOCATION OF THE SIGN POST IS TO BE AGREED ON SITE WITH THE CLIENTS SITE REPRESENTATIVE.

DUCTING SHALL BE MODIFIED AND EXTENDED FOR NEW SIGN LOCATION. NEW DUCT MODIFICATIONS TO INCLUDE SLOW BENDS. BENDS IN THE DUCT SHOULD ADHERE TO THE BENDING RADI SPECIFIED BY THE CABLE MANUFACTURER. CABLE SHALL BE REWIRED FROM NEW SIGN POST TO POINT OF SUPPLY (SEE NOTE 1)

EXISTING ILLUMINATED SIGN TO BE RELOCATED ONTO NEW POST AND FOUNDATION. EXISTING SIGN LIGHT AND SIGN PLATES TO BE REMOVED AND SET ASIDE FOR REUSE.



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PROJECT

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ISSUE/REVISION

AB1	01/05/2023	AS-BUILT
C2	21/03/23	GA & PAVEMENT DETAILS UPDATE
C1	16/02/23	CLIENT COMMENTS UPDATE
C0	19/08/22	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

SHEET TITLE

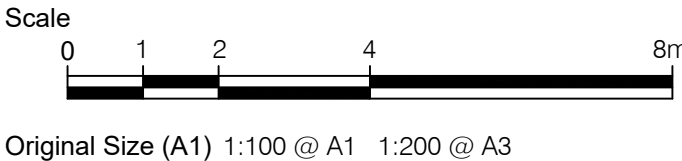
4.2.1 PRINCES STREET & JUNCTION WITH SOUTH ST. ANDREW STREET ILLUMINATED SIGN CONNECTION

SHEET NUMBER

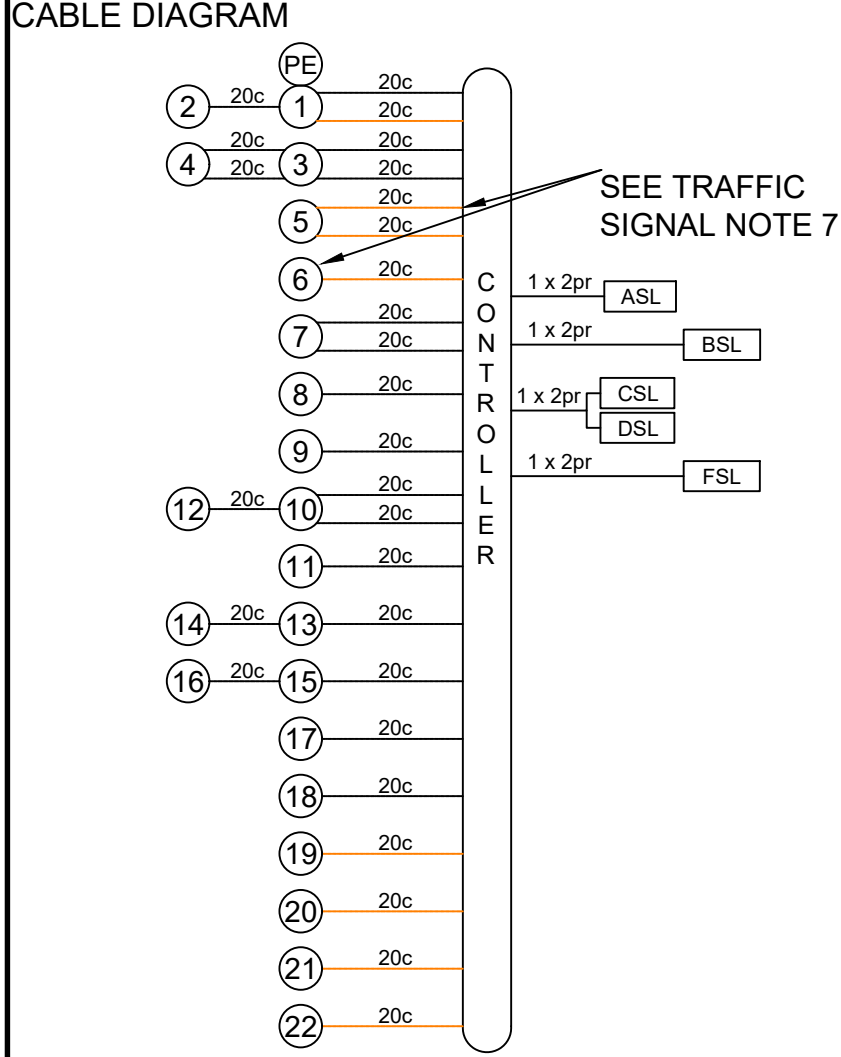
60487449-DD-C-WP1-4.2.1-1301

RESIDUAL HAZARDS IDENTIFIED

ITEM	DESCRIPTION
1	REFER TO SAFETY IN DESIGN - DESIGNER'S RESIDUAL HAZARDS REGISTER FOR HAZARDS IN RELATION TO THESE WORKS



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CABLE DIAGRAM KEY

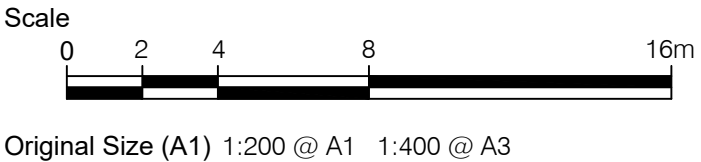
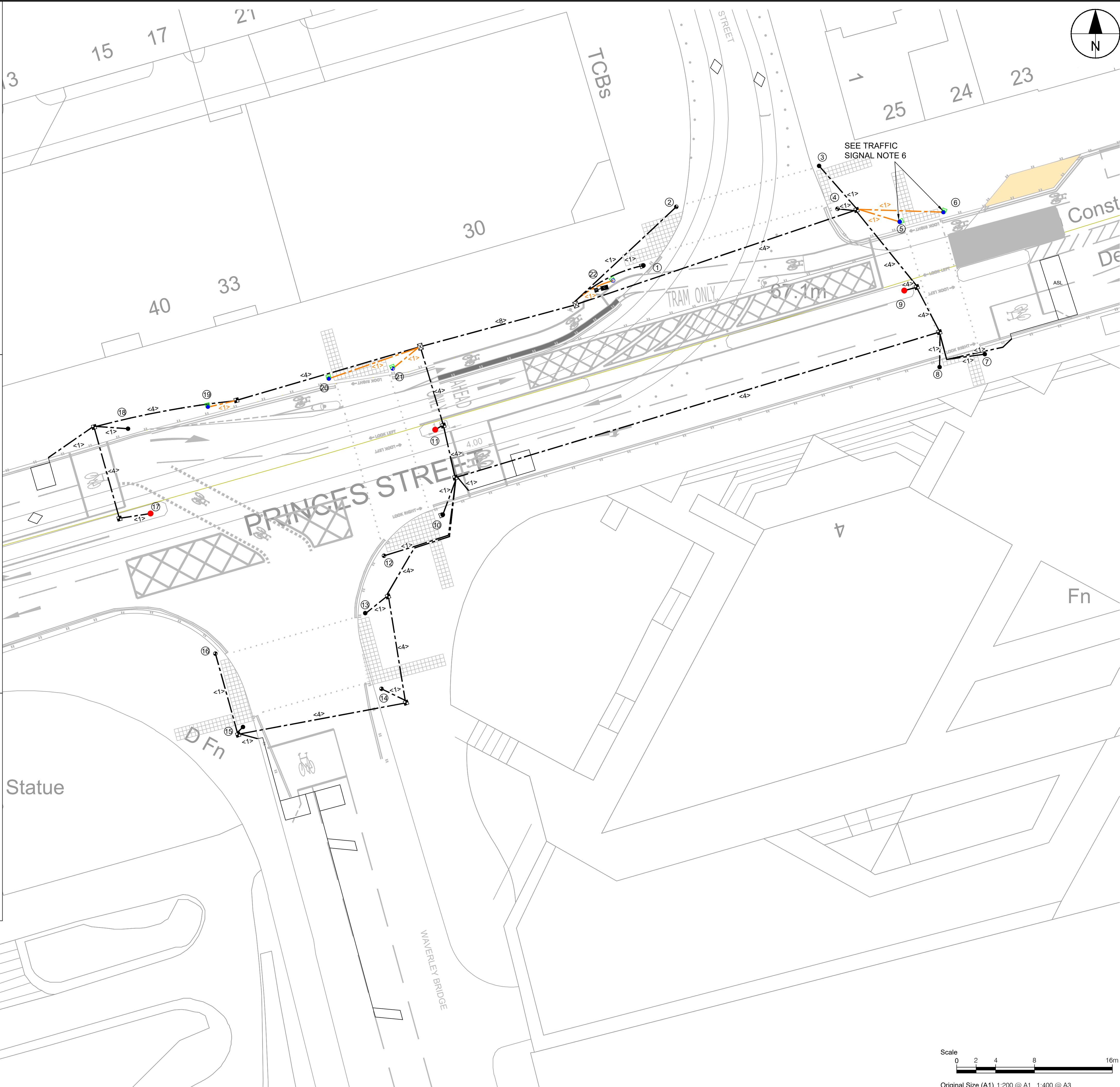
① SIGNAL POLE
pr PAIRED CABLE
C MULTICORE CABLE

TRAFFIC SIGNALS NOTES

1. THE CURRENT REQUIREMENT FOR SIGNAL ASPECTS IS THAT THEY SHALL BE ALL LED TYPE. SIGNAL CONTROLLERS AND INSTALLATION CABLES WILL BE EXTRA LOW VOLTAGE (ELV) UNLESS OTHERWISE AGREED BY CITY OF EDINBURGH COUNCIL IN ADDITION ONLY EQUIPMENT APPROVED BY CITY OF EDINBURGH COUNCIL'S TRAFFIC SIGNAL TEAM WILL BE PERMITTED FOR USE ON THE ROAD.
2. EXISTING TRAFFIC SIGNAL INFRASTRUCTURE AND INFORMATION RECEIVED FROM OTHERS, SURVEY CARRIED OUT BY OTHERS. AECOM CANNOT GUARANTEE THEIR ACCURACY. CONTRACTOR TO SATISFY THEMSELVES AS TO THE ACCURACY OF SUCH INFORMATION.
3. BELOW GROUND DETECTION TO BE UNCHANGED. NO DETECTION TABLES HAVE BEEN PROVIDED FOR DESIGN AND ARE THEREFORE NOT INCLUDED IN THIS PACKAGE.
4. ADDITIONAL CABLES BETWEEN THE TRAFFIC SIGNAL CONTROLLER AND ANY POLE MAY BE REQUIRED WHERE THERE ARE INSUFFICIENT CORES WITHIN EXISTING CABLES FOR ADDITIONAL EARLY RELEASE EQUIPMENT TO BE POWERED. THE CONTRACTOR SHALL CONSIDER THE REQUIREMENT FOR ADDITIONAL CABLING WITHIN THE EXISTING DUCT NETWORK, AND DISCUSS WITH THE LOCAL AUTHORITY PRIOR TO INSTALLATION IF ADDITIONAL CABLES WILL REQUIRE FURTHER DUCTS TO BE PROVIDED.
5. FOR ABOVE GROUND SIGNALS INFORMATION REFER TO 60584563-DD-C-WP1-4.2.1-1202
6. DUCT SURVEYS HAVE INDICATED DUCTS ACROSS SOUTH ST ANDREWS STREET ARE COLLAPSED. IN ORDER TO CONNECT NEW POLES 5 AND 6 NEW CABLES TO BE PROVIDED TO POLE 5 AND 6 VIA ROUTING THE CABLES ANTI-CLOCKWISE AROUND THE JUNCTION. DUCTING SURVEYS HAVE INDICATED ALL DUCTING ALONG THIS ROUTE IS CLEAR.

TRAFFIC SIGNALS KEY

- NEW STANDARD STEEL TRAFFIC SIGNAL POLE
- NEW STUB TRAFFIC SIGNAL POLE
- NEW CYCLE TRAFFIC SIGNAL POLE
- NEW RETENTION SOCKET
- NEW 100mm ORANGE DUCT
- EXISTING STANDARD STEEL TRAFFIC SIGNAL POLE
- EXISTING STUB TRAFFIC SIGNAL POLE
- EXISTING OLE POLE
- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING FEEDER PILLAR
- EXISTING DUCT BOX (450x450mm)
- EXISTING DUCT BOX (650x450mm)
- EXISTING RETENTION SOCKET
- EXISTING 100mm ORANGE DUCT



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ISSUE/REVISION

NO	DATE	DESCRIPTION
C2	30/03/2023	BACKGROUND UPDATE
C1	01/03/2023	ISSUED FOR CONSTRUCTION
C0	19/08/2022	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

SHEET TITLE

**PRINCES STREET /
WAVERLEY BRIDGE BELOW GROUND
SIGNALS INFRASTRUCTURE**

SHEET NUMBER

60584563-DD-C-WP1-4.2.1-1401