

- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL METIS CONSULTANTS LTD DRAWINGS AND ALL OTHER RELEVANT ARCHITECT'S, ENGINEER'S AND LANDSCAPE ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
 - ALL DIMENSIONS AND LEVELS SHOWN ARE IN METRES UNLESS OTHERWISE STATED.
 - DO NOT SCALE FROM THIS DRAWING.
 - LAYOUTS ARE A COMBINATION OF BOTH TOPOGRAPHICAL SURVEY AND ORDNAVANCE SURVEY. CLARIFICATION AND DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE SITE ENGINEER.
 - ALL ROAD MARKINGS AND SIGNS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATION AND GENERAL DIRECTIONS (TSRGD) 2016 AND TRAFFIC SIGNS MANUAL (TSM) 2018.
 - EXISTING 300 mm X 200 mm GRANITE KERBS TO BE RELAID AS 200 mm X 300 mm.

- LEGEND**
- CYCLE WAY - BUFF COLOUR FLEXIBLE SURFACING
 - FLEXIBLE SURFACING
 - CARRIAGEWAY RESURFACING
 - SHARED SPACE - HARVEST TEGULA BLOCKS
 - TRAMLINE/LADDER TACTILE PAVING - CHARCOAL
 - RAIN GARDEN
 - GRASS VERGE
 - BLISTER TACTILE PAVING - CHARCOAL
 - BLISTER TACTILE PAVING - BUFF
 - WHITE RAISED THERMOPLASTIC MARKING
 - CONCRETE DEMARCATION BLOCK [W: 200 mm]
 - GRANITE KERB [W: 200 mm, H: 300 mm, U: VARIES]
 - GRANITE KERB [W: 150 mm, H: 150 mm, U: 50 mm]
 - PCC KERB [W: 125 mm, U: 100 mm]
 - TRANSITION KERB
 - DROPPED KERB [W:150 mm, H: 150 mm, U: 0 mm]
 - PROPOSED WHITE ROAD MARKINGS
 - PROPOSED YELLOW ROAD MARKINGS
 - PROPOSED RED ROAD MARKINGS
 - SIGN POST

REV	REV. DATE	PURPOSE OF REVISION	DRAWN	CHKD	APPRVD
F	08/07/2021	AMENDMENTS FOLLOWING DESIGN REVIEW	DD	MP	AG
E	28/05/2021	DETAILED DESIGN ISSUE 2 FOR COSTING	DD	MP	AG
D	06/04/2021	KERB AMENDED TO AVOID TW MANHOLE	DD	MP	AG
C	27/11/2020	DETAILED DESIGN ISSUE 1	DD	MP	AG
B	30/10/2020	FOR APPROVAL	DD	MP	AG
A	23/10/2020	FOR INFORMATION	DD	MP	AG

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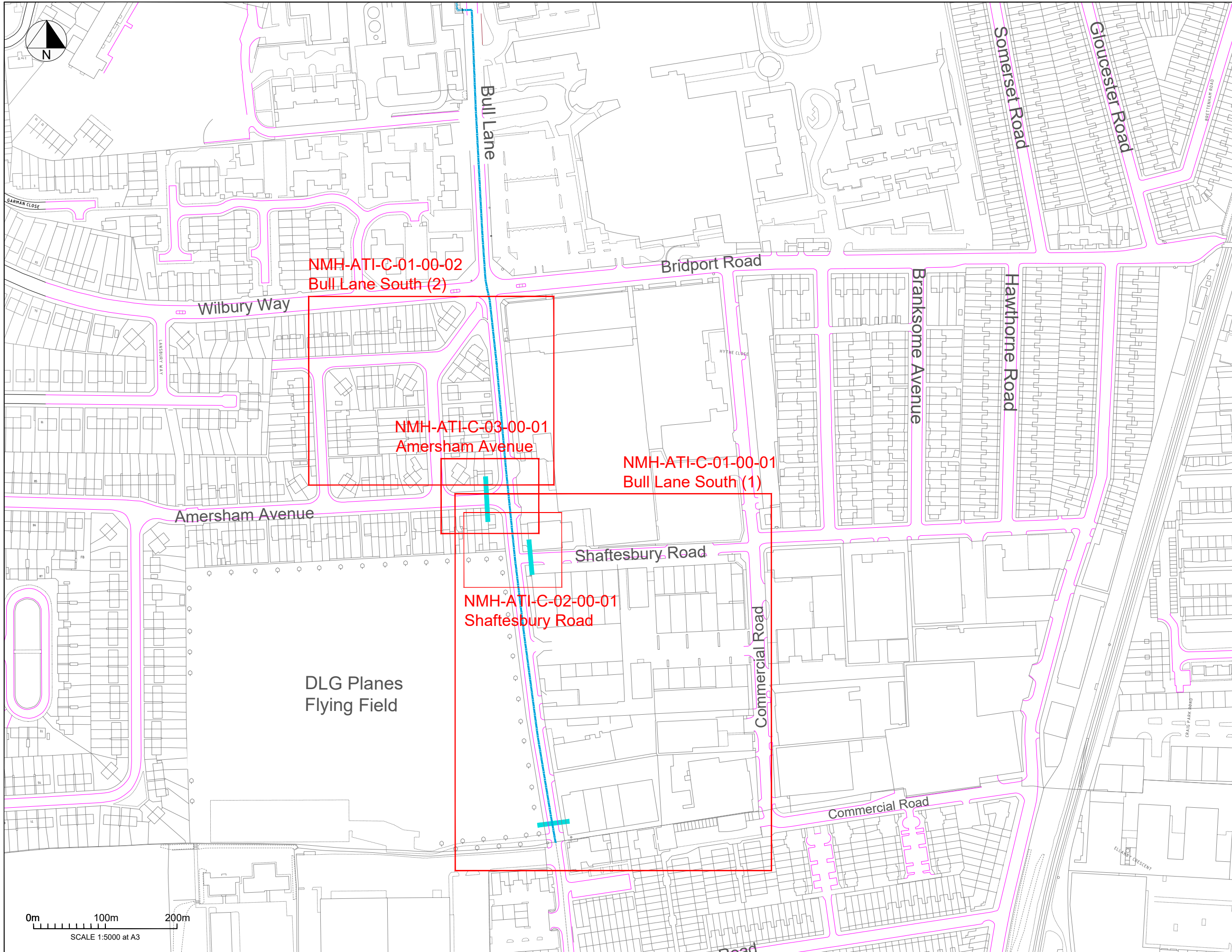
CLIENT
ENFIELD Council

PROJECT
 NORTH MIDDLESEX HOSPITAL
 ACTIVE TRAVEL IMPROVEMENTS

DRAWING TITLE
GENERAL ARRANGEMENT

DRAWING STATUS
FOR INFORMATION

SCALE 1:250 @ A1 DO NOT SCALE
 SHEET 001 OF 001
 DRAWING NUMBER **20148-MET-HGN-DR-001** REV **F**



Key:

- Existing Kerbline
- Proposed cycleway
- Drawing number and reference
- Proposed filter or bus gate

- General Notes:**
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 5. Co-ordinates based on OS grid.
 6. Levels based on OS datum (Newlyn).
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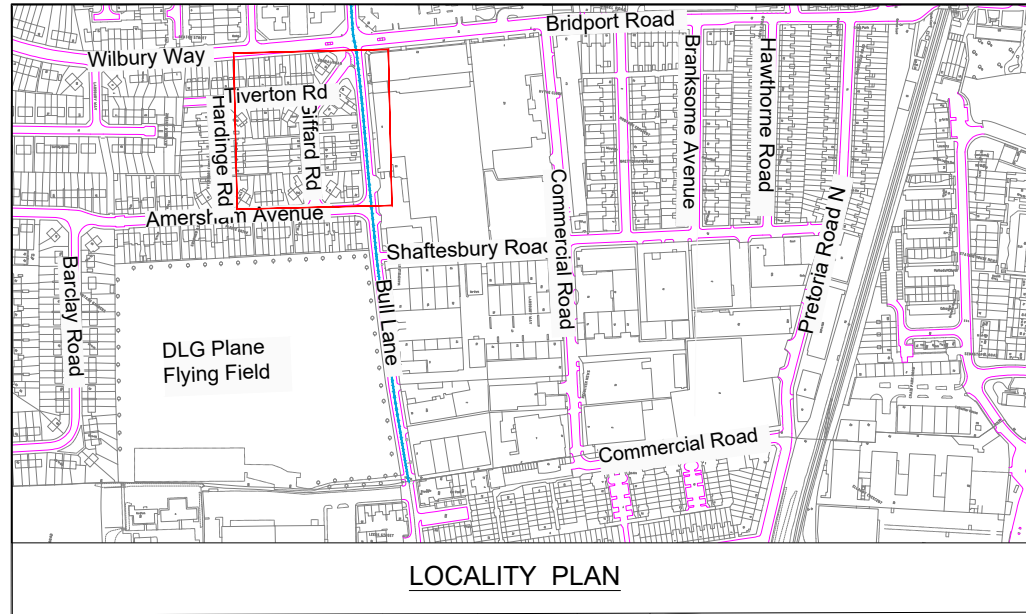
Project:
NMH Active Travel Improvements

Title:
Overview Plan

Drawn: ZH **Check:** OG **Appr:** OG **Date:** 23/08/2021 **Scale at A3:** 1:5000

Status:
CONCEPT

Drawing No: NMH-ATI-C-OP-01-00-01 **Revision:**



LOCALITY PLAN

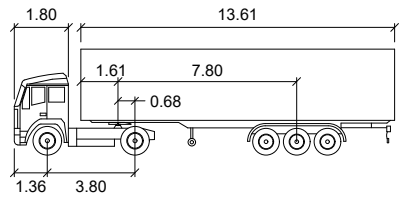
Wilbury Way

Tiverton Road

Bull Lane

Giffard Road

Hardinge Road



Artic		Lock to Lock Time	: 6.0
Tractor Width	: 2.55	Steering Angle	: 42.7
Trailer Width	: 2.55	Articulating Angle	: 70.0
Tractor Track	: 2.55		
Trailer Track	: 2.55		

Move all existing footway parking to carriageway. Remove 2.5m at northern end and 4.5m at southern end. At DYs at both ends. Bay width 1.8m

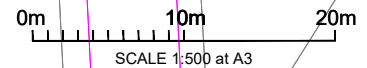
Convert existing single yellow line to DY.

Proposed cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position between kerb and parking bay edge, in line with entrance to industrial unit

Remove existing footway parking signs and sign post

- Key:**
- Existing kerb line (OS base)
 - Proposed cycleway route
 - Existing lighting column
 - Proposed yellow line marking
 - Existing line marking
 - Existing sign post
 - Remove existing sign post with signs
 - Proposed white line marking
 - Proposed line marking removal

- Notes:**
1. Part of drawing based on OS base, dimensions and street furniture positions to be checked on site and any discrepancies to be reported.
 2. All cycle markings to be pre-formed thermoplastic.
 3. Swept path analysis using large articulated vehicle 16.5m tracked at entrances to main industrial units.
 4. Proposed carriageway parking width 1.8m
- General Notes:**
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CUT LINE
NMH-ATI-C-03-00-01

A Enfield Design Review ZH OG OG 05/08/2021



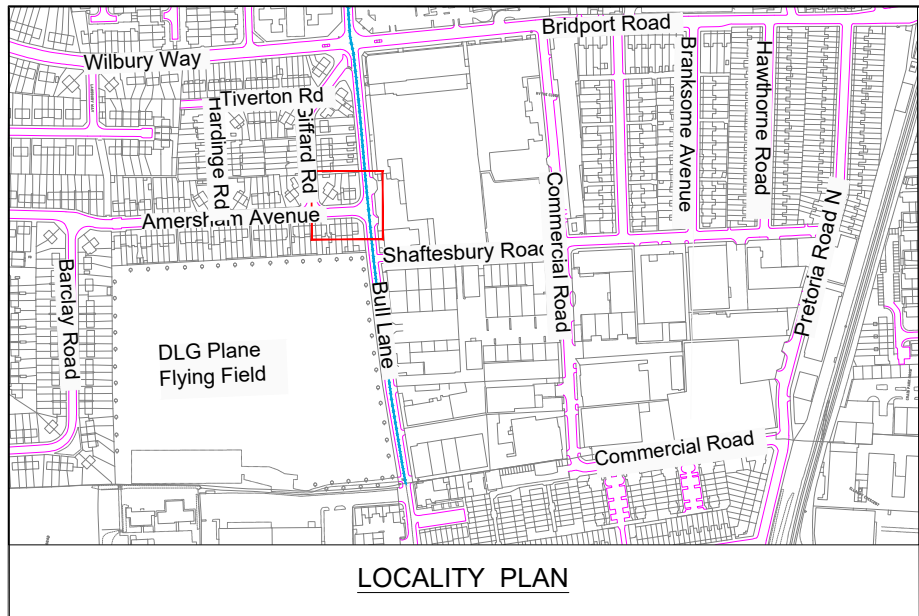
Project:
NMH Active Travel Improvements

Title:
Bull Lane South (2)
General Arrangement

Drawn: ZH **Check:** JAG **Appr:** JAG **Date:** 24/05/2021 **Scale at A3:** 1:500

Status:
CONCEPT

Drawing No: NMH-ATI-C-01-00-02 **Revision:** A



LOCALITY PLAN

Remove sign post and signs related to 20mph zone (east facing) and 30mph zone (west facing).
 Install 'motor vehicles prohibited' sign to TSRGD diagram 619, 750 mm mounted west facing on existing signpost at 2.3m minimum mounting height.

Suspend one parking bay and introduce DYs instead.

Extend existing parking sign post and introduce 'no through route' sign to TSRGD 816, with 'except cycles' plate mounted facing westwards at minimum 2.3m mounting height.



Proposed filter with two rectangular planters equipped with reflectors, installed in line with existing signposts on footway. Maintain access to driveway on southern side of Amersham Avenue. Use four bolt down kerb sections around perimeter of each planter to fix planters in place. Maintaining a gap of 0.2m from kerbside.

Introduce 2x sign posts with 'motor vehicles prohibited' sign to TSRGD diagram 619, 750 mm on each sign post mounted at 2.3m minimum mounting height. Sign posts to be installed behind planters (inside the closure), in line with centre of planters, with signs facing the road outside the closure (eastward)



Existing dropped kerb being used as crossover. Vehicles no longer able to legally access space with presence of filter.



Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position in lanes

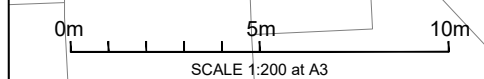
Two proposed rectangular planters, 11.4m apart equipped with reflectors installed in line with existing give way line. Use four bolt down kerb sections around perimeter of each planter to fix planters in place.

Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position in lanes

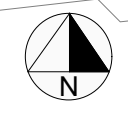
Remove signs related to vehicle weight restrictions (east facing) and end of weight restriction zone (west facing).

Disconnect existing lit signpost. Replace with 75mm signpost (moved from existing 20mph sign) to install 'motor vehicles prohibited' sign to TSRGD diagram 619, 750 mm mounted west facing at 2.3m minimum mounting height.

Remove signs related to 20mph zone (east facing) and 30mph zone (west facing). Remove and relocate straight sign post to location adjacent to planter to mount sign to TSRGD diagram 619.



CUT LINE
 NMH-ATI-C-02-00-01



- Key:**
- Existing driveway
 - Existing kerb line (OS base)
 - Proposed cycleway route
 - Existing lighting column
 - Proposed yellow line marking
 - Existing line marking
 - Existing sign post with sign
 - Existing tree
 - Existing sign post with proposed sign
 - Proposed collapsible bollard with reflectors
 - Proposed white line marking
 - Proposed rectangular wooden planter 1.5m L x 0.9m W x 0.92m H with reflectors
 - Proposed rectangular bolt down kerbs - 0.914m L x 0.15m W x 0.1m H (Redweld Harlow Kerbs)
 - Existing sign post and sign to be removed
 - Proposed line marking removal
 - Alternative filter design - proposed bollard with dimensions
 - New/relocated sign post with proposed sign

- Approximate Quantities**
- Planter with reflectors 1.5 m x 0.9m x 0.92m - 4x
 - Bolt down Kerbs - 16x
 - Signs to TSRGD 619, 750mm - 4x
 - Sign to TSRGD 816 - 1x
 - 'Except cycles' plate - 1x
 - Sign posts - 2x

- Notes:**
1. Part of drawing based on OS base, dimensions and street furniture positions to be checked on site and any discrepancies to be reported.
 2. Proposed cycle markings to be pre-formed thermoplastic.
 3. All planters and bollards to be equipped with reflectors.
 4. Allow small gap between kerb and planter for drainage.
 5. Use bolt down kerbs to fix planters in carriageway in place. Allow gaps between kerbs, and gaps between bolt down kerbs and kerbside for drainage. Bolt down kerb sections to be saw cut on site to required lengths.
 6. Low plants to be used in planters to avoid obstructing visibility.
 7. Signs to be mounted with anti-rotational fixings.
 8. Parking suspended at this location is 5.7m.
 9. Proposed parking bay width in carriageway to be 1.8m.

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A Enfield Design Review | ZH | OG | OG | 05/08/2021



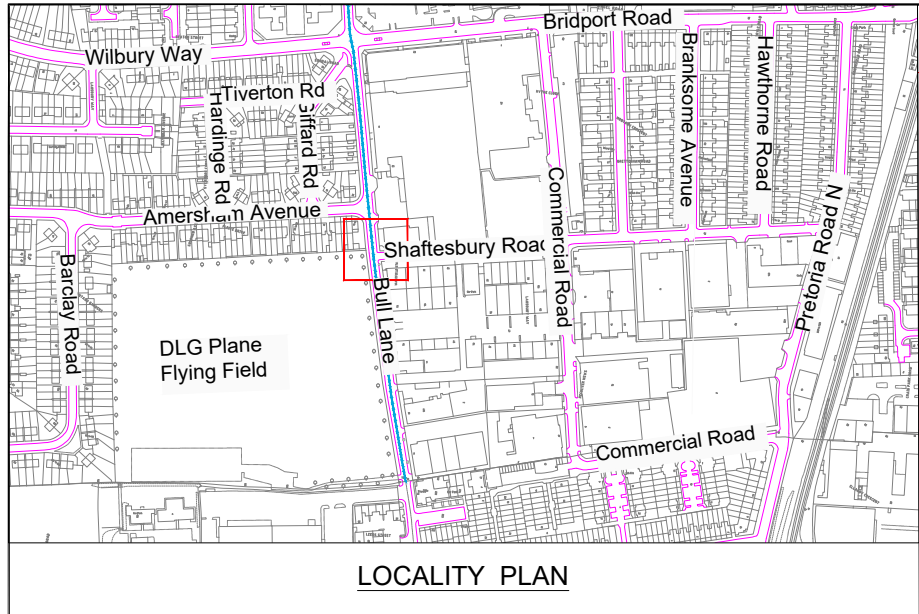
Project: NMH Active Travel Improvements

Title: Amersham Avenue Filter General Arrangement

Drawn: Check: Appr: Date: Scale at A3:
 ZH JAG JAG 24/05/2021 1:200

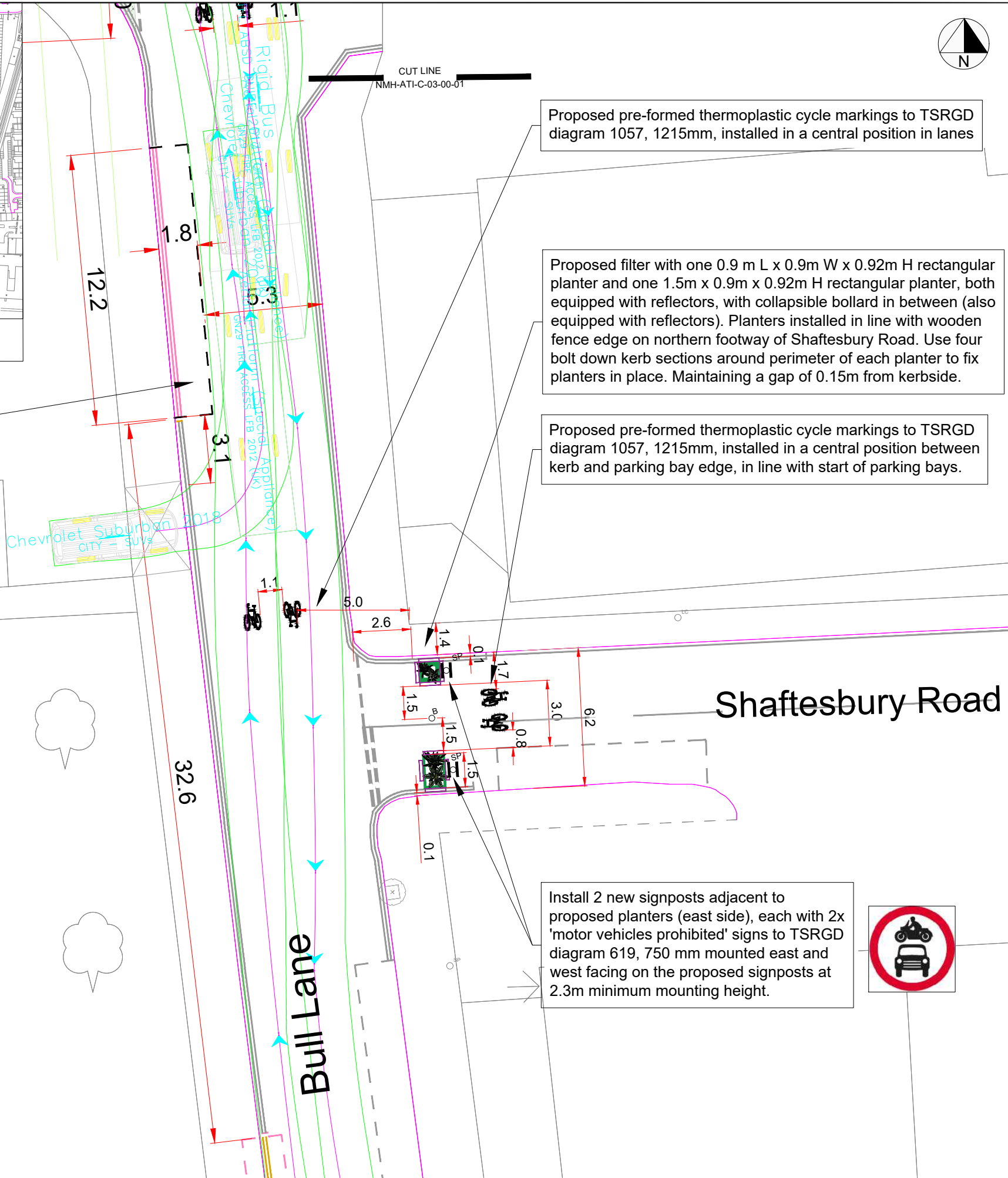
Status: **CONCEPT**

Drawing No: NMH-ATI-C-03-00-01 | Revision: A



LOCALITY PLAN

Proposed on-carriageway parking bays to partially offset parking loss further south



Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position in lanes

Proposed filter with one 0.9 m L x 0.9m W x 0.92m H rectangular planter and one 1.5m x 0.9m x 0.92m H rectangular planter, both equipped with reflectors, with collapsible bollard in between (also equipped with reflectors). Planters installed in line with wooden fence edge on northern footway of Shaftesbury Road. Use four bolt down kerb sections around perimeter of each planter to fix planters in place. Maintaining a gap of 0.15m from kerbside.

Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position between kerb and parking bay edge, in line with start of parking bays.

Install 2 new signposts adjacent to proposed planters (east side), each with 2x 'motor vehicles prohibited' signs to TSRGD diagram 619, 750 mm mounted east and west facing on the proposed signposts at 2.3m minimum mounting height.



Key:

- Existing kerb line (OS base)
- Proposed cycleway route
- Existing lighting column
- Proposed yellow line marking
- Existing line marking
- Existing sign post
- Existing tree
- Existing sign post with proposed sign
- Proposed collapsible bollard with reflectors
- Proposed white line marking
- Proposed rectangular wooden planter 1.5m L x 0.9m W x 0.92m H with reflectors
- Proposed rectangular bolt down kerbs - 0.914m L x 0.15m W x 0.1m H (Redweld Harlow Kerbs)
- Proposed rectangular wooden planter 0.9m L x 0.9m W x 0.92m H with reflectors
- Proposed line marking removal

- Approximate Quantities
- Collapsible bollard with reflectors - 1x
 - Planter with reflectors 1.5 m x 0.9m x 0.92m - 1x
 - Planter with reflectors 0.9m x 0.9m x 0.92m - 1x
 - Bolt down Kerbs - 8x
 - Signposts - 2x
 - Signs to TSRGD 619, 750mm - 4x

- Notes:
1. Part of drawing based on OS base, dimensions and street furniture positions to be checked on site and any discrepancies to be reported.
 2. All cycle markings to be pre-formed thermoplastic.
 3. All planters and bollards to be equipped with reflectors.
 4. Allow small gap between kerb and planter for drainage
 5. Use bolt down kerbs to fix planters in carriageway in place. Allow gaps between kerbs, and gaps between bolt down kerbs and kerbside for drainage. Bolt down kerb sections to be saw cut on site to required lengths.
 6. Signs to be mounted with anti-rotational fixings.
 7. Total length of parking bays to be suspended along Bull Lane 131.9m approx (including gain of relocated parking).
 8. Proposed parking bay width in carriageway to be 1.8m.
 9. Swept path analysis: Large suburban SUV tracked at driveway at 4km/h. No dry steering used.

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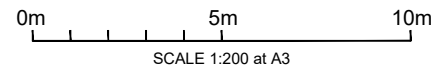
A Enfield Design Review ZH OG OG 05/08/2021

Project: NMH Active Travel Improvements
 Title: Shaftesbury Road Filter General Arrangement

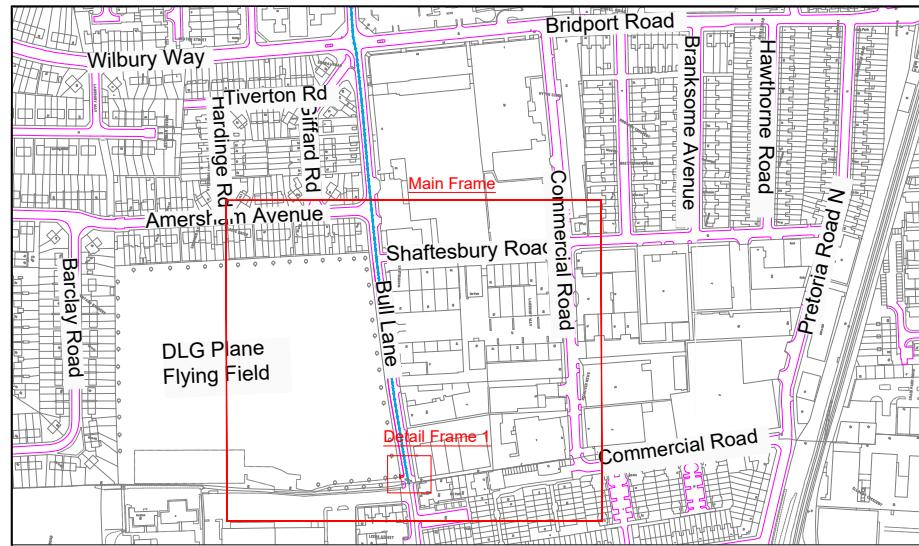
Drawn: Check: Appr: Date: Scale at A3:
 ZH JAG JAG 20/05/2021 1:200

Status: **CONCEPT**

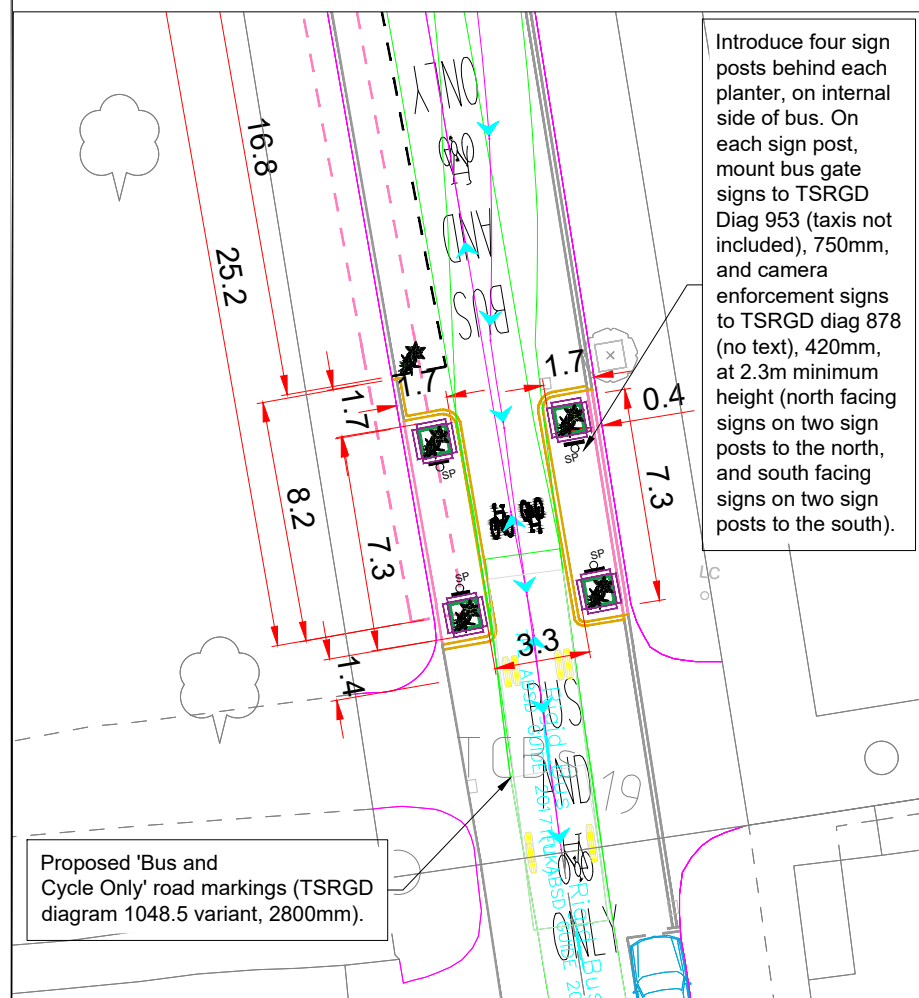
Drawing No: NMH-ATI-C-02-00-01 Revision: A



SCALE 1:200 at A3



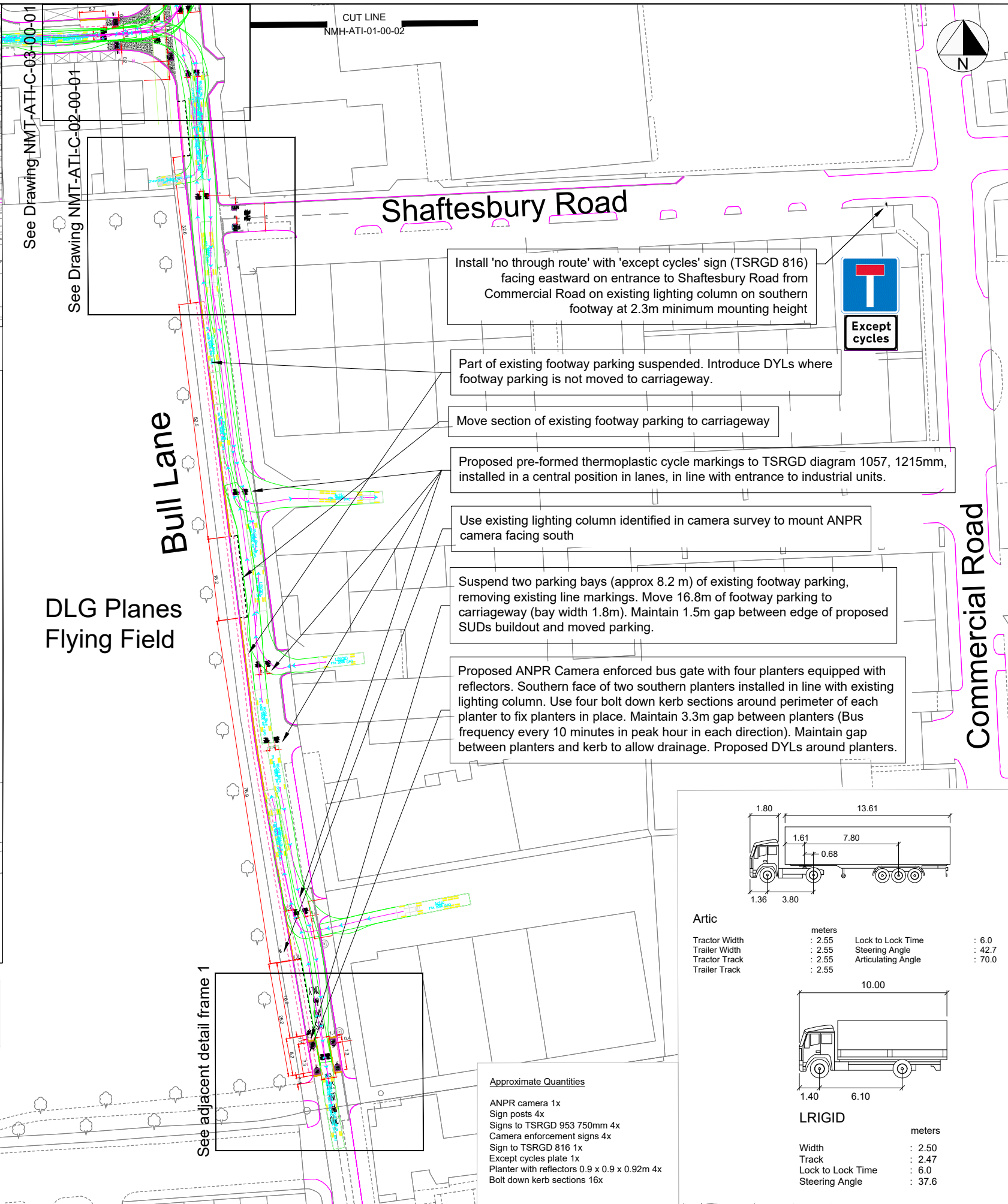
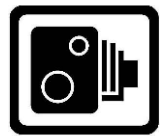
LOCALITY PLAN



Detail Frame 1

Introduce four sign posts behind each planter, on internal side of bus. On each sign post, mount bus gate signs to TSRGD Diag 953 (taxis not included), 750mm, and camera enforcement signs to TSRGD diag 878 (no text), 420mm, at 2.3m minimum height (north facing signs on two sign posts to the north, and south facing signs on two sign posts to the south).

Proposed 'Bus and Cycle Only' road markings (TSRGD diagram 1048.5 variant, 2800mm).



Install 'no through route' with 'except cycles' sign (TSRGD 816) facing eastward on entrance to Shaftesbury Road from Commercial Road on existing lighting column on southern footway at 2.3m minimum mounting height



Part of existing footway parking suspended. Introduce DYs where footway parking is not moved to carriageway.

Move section of existing footway parking to carriageway

Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position in lanes, in line with entrance to industrial units.

Use existing lighting column identified in camera survey to mount ANPR camera facing south

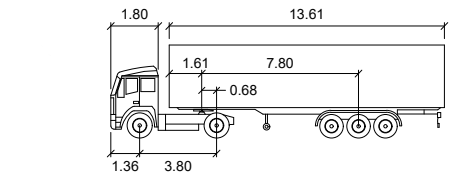
Suspend two parking bays (approx 8.2 m) of existing footway parking, removing existing line markings. Move 16.8m of footway parking to carriageway (bay width 1.8m). Maintain 1.5m gap between edge of proposed SUDs buildout and moved parking.

Proposed ANPR Camera enforced bus gate with four planters equipped with reflectors. Southern face of two southern planters installed in line with existing lighting column. Use four bolt down kerb sections around perimeter of each planter to fix planters in place. Maintain 3.3m gap between planters (Bus frequency every 10 minutes in peak hour in each direction). Maintain gap between planters and kerb to allow drainage. Proposed DYs around planters.

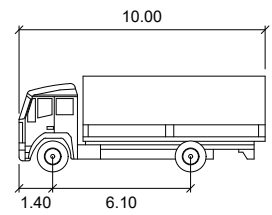
See adjacent detail frame 1

Approximate Quantities

- ANPR camera 1x
- Sign posts 4x
- Signs to TSRGD 953 750mm 4x
- Camera enforcement signs 4x
- Sign to TSRGD 816 1x
- Except cycles plate 1x
- Planter with reflectors 0.9 x 0.9 x 0.92m 4x
- Bolt down kerb sections 16x



Artic		meters	
Tractor Width	: 2.55	Lock to Lock Time	: 6.0
Trailer Width	: 2.55	Steering Angle	: 42.7
Tractor Track	: 2.55	Articulating Angle	: 70.0
Trailer Track	: 2.55		



LRIGID		meters	
Width	: 2.50		
Track	: 2.47		
Lock to Lock Time	: 6.0		
Steering Angle	: 37.6		

Key:

	Existing kerb line (OS base)
	Proposed cycleway route
	Existing lighting column
	Proposed yellow line marking
	Existing line marking
	Existing sign post
	Existing tree
	Existing sign post with proposed sign
	Proposed collapsible bollard with reflectors
	Proposed white line marking
	Proposed rectangular wooden planter 1.5m L x 0.9m W x 0.92m H with reflectors
	Proposed rectangular bolt down kerbs - 0.914m L x 0.15m W x 0.1m H (Redweld Harlow Kerbs)
	Proposed rectangular wooden planter 0.9m L x 0.9m W x 0.92m H with reflectors
	Proposed line marking removal
	Proposed ANPR Camera
	Proposed signpost and sign

- Notes:
- Part of drawing based on OS base, dimensions and street furniture positions to be checked on site and any discrepancies to be reported.
 - All cycle markings to be pre-formed thermoplastic.
 - All planters and bollards to be equipped with reflectors.
 - Allow small gap between kerb and planter for drainage.
 - Use bolt down kerbs to fix planters in carriageway in place. Allow gaps between kerbs, and gaps between bolt down kerbs and kerbside for drainage. Bolt down kerb sections to be saw cut on site to required lengths.
 - Signs to be mounted with anti-rotational fixings.
 - Total length of parking bays to be suspended 131.9m approx.
 - Proposed parking bay width in carriageway to be 1.8m.
 - Swept path analysis using large articulated vehicle 16.5m tracked at entrances to main industrial units. 10m rigid vehicles tracked where industrial units do not accommodate large articulated vehicles. Dry steering used.
- General Notes:
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 - These drawings have been produced under the CDM 2015 Regulations. The client is directed to their duties under Regulation 4 of CDM 2015.
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 - To ensure the most up to date drawings are being used the project drawing register should be referred to.
 - For further information on drawing and design revisions, see decision log or contact Sustrans project manager.
 - This drawing has been produced to be read in colour, for the sheet size specified below. Printing or copying in black and white, or on a different sheet size may lead to misinterpretation of the design.

B	Temporary planter arrangement	ZH	GF	GF	15/11/2021
A	Enfield Design Review	ZH	OG	OG	05/08/2021

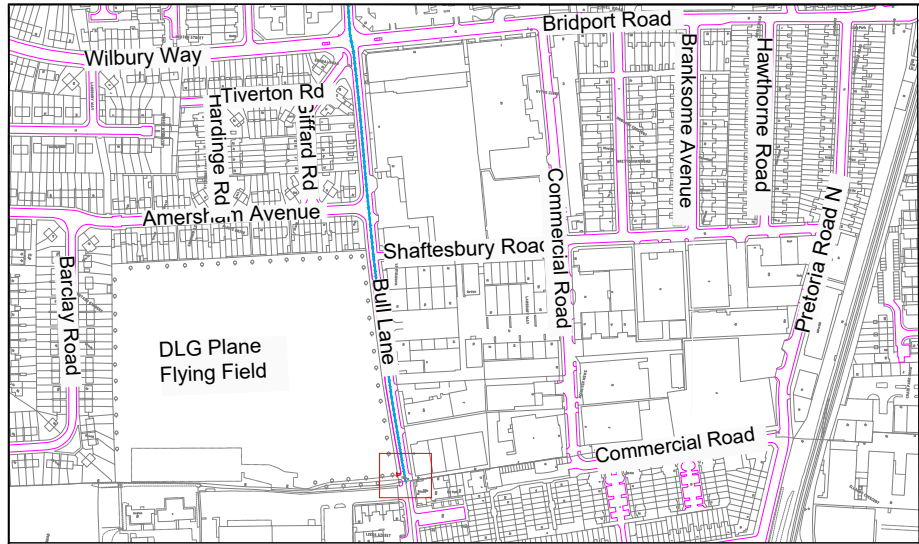
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Project: NMH Active Travel Improvements
Title: Bull Lane South (1) General Arrangement

Drawn:	Check:	Appr:	Date:	Scale at A3:
ZH	JAG	JAG	20/05/2021	1:1000

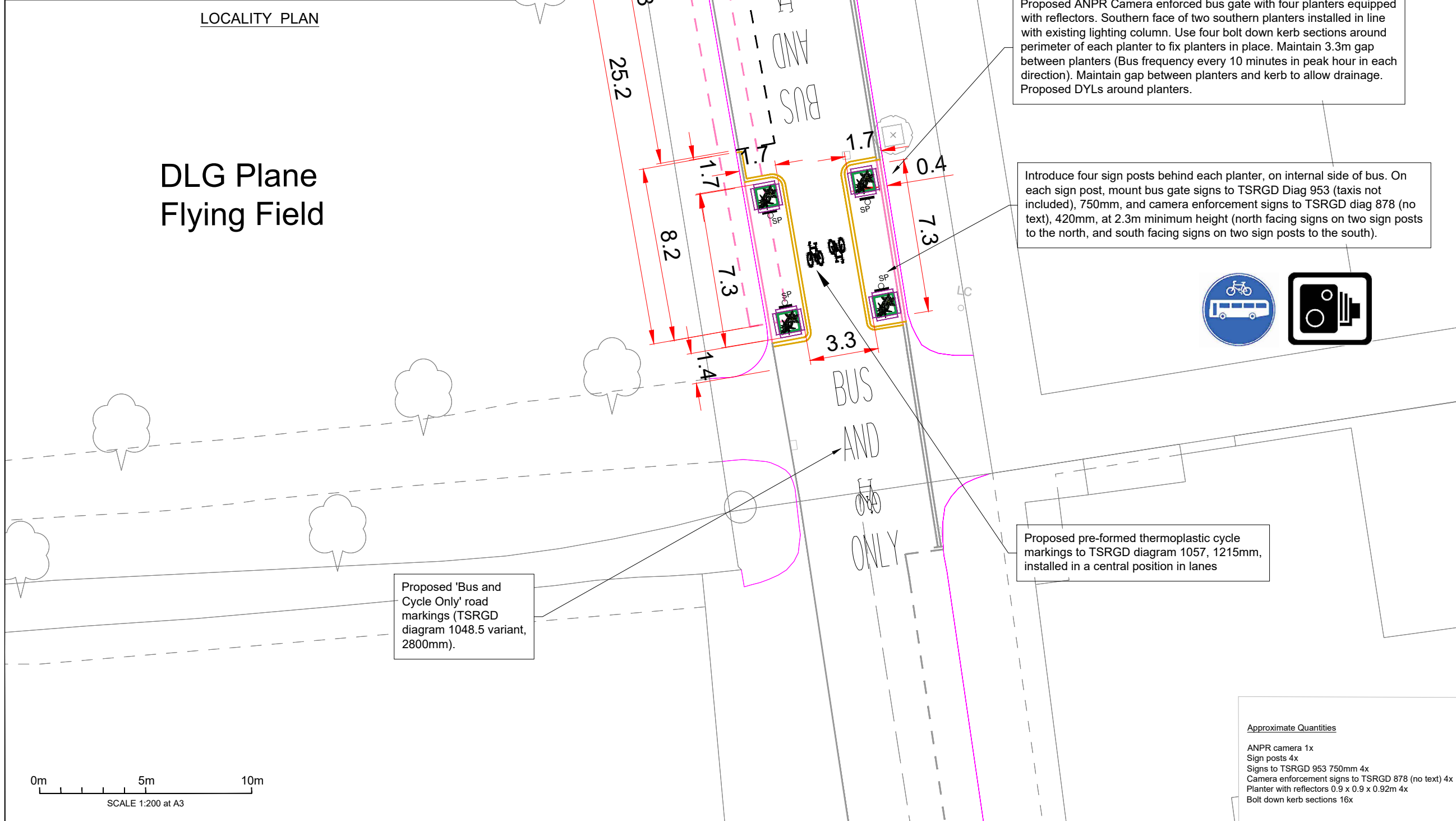
Status: **CONCEPT**

Drawing No:	Revision:
NMH-ATI-C-01-00-01	B



LOCALITY PLAN

DLG Plane Flying Field



Use existing lighting column identified in camera survey to mount ANPR camera facing south

Suspend two parking bays (approx 8.2 m) of existing footway parking, removing existing line markings. Move 16.8m of footway parking to carriageway (bay width 1.8m). Maintain 1.5m gap between edge of proposed SUDs buildout and moved parking.

Proposed ANPR Camera enforced bus gate with four planters equipped with reflectors. Southern face of two southern planters installed in line with existing lighting column. Use four bolt down kerb sections around perimeter of each planter to fix planters in place. Maintain 3.3m gap between planters (Bus frequency every 10 minutes in peak hour in each direction). Maintain gap between planters and kerb to allow drainage. Proposed DYLS around planters.

Introduce four sign posts behind each planter, on internal side of bus. On each sign post, mount bus gate signs to TSRGD Diag 953 (taxis not included), 750mm, and camera enforcement signs to TSRGD diag 878 (no text), 420mm, at 2.3m minimum height (north facing signs on two sign posts to the north, and south facing signs on two sign posts to the south).

Proposed pre-formed thermoplastic cycle markings to TSRGD diagram 1057, 1215mm, installed in a central position in lanes

Proposed 'Bus and Cycle Only' road markings (TSRGD diagram 1048.5 variant, 2800mm).



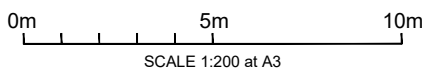
- Key:**
- Existing kerb line (OS base)
 - Proposed cycleway route
 - Existing lighting column
 - Proposed yellow line marking
 - Existing line marking
 - Existing sign post
 - Existing tree
 - Proposed ANPR Camera
 - Proposed line marking removal
 - Proposed white line marking
 - Proposed signpost and sign
 - Proposed rectangular bolt down kerbs - 0.914m L x 0.15m W x 0.1m H (Redweld Harlow Kerbs)
 - Proposed rectangular wooden planter 0.9m L x 0.9m W x 0.92m H with reflectors

- Notes:**
1. Part of drawing based on OS base, dimensions and street furniture positions to be checked on site and any discrepancies to be reported.
 2. All cycle markings to be pre-formed thermoplastic.
 3. All planters and bollards to be equipped with reflectors.
 4. Allow small gap between kerb and planter for drainage
 5. Use bolt down kerbs to fix planters in carriageway in place. Allow gaps between kerbs, and gaps between bolt down kerbs and kerbside for drainage. Bolt down kerb sections to be saw cut on site to required lengths.
 6. Signs to be mounted with anti-rotational fixings.
 7. Total length of parking bays to be suspended 131.9m approx.
 8. Proposed parking bay width in carriageway to be 1.2m.
 9. ANPR camera to be installed with metal mesh cage underneath to reduce risk of vandalism

- General Notes:**
1. All dimensions in metres, unless otherwise noted.
 2. Do not scale off plan
 3. Dimensions are to be checked by the contractor prior to commencement of work. Any discrepancy shall be reported immediately to Sustrans.
 4. Drawing based on OS base plan.
 5. Co-ordinates based on OS grid.
 6. Levels based on OS datum (Newlyn).
 7. This drawing is to be read in conjunction with all other relevant drawings and specifications.
 8. All work shall be carried out in accordance with LB Enfield statutory authority and health & safety requirements and regulations.
 9. The position of services is based on information provided by other parties at the time of design and is for guidance only. It is the responsibility of the Client and Contractor to verify the exact position of any services before commencing works on site.
 10. Temporary traffic works must be undertaken in accordance with Chapter 8 parts 1 & 2 of the Traffic Signs Manual, Safety at Street Works and Road Works Code of Practice 2013 and any other relevant H&S legislation.
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- Approximate Quantities**
- ANPR camera 1x
 - Sign posts 4x
 - Signs to TSRGD 953 750mm 4x
 - Camera enforcement signs to TSRGD 878 (no text) 4x
 - Planter with reflectors 0.9 x 0.9 x 0.92m 4x
 - Bolt down kerb sections 16x



A Temporary planter arrangement ZH GF GF 15/11/2021

Project: NMH Active Travel Improvements			
Title: Bull Lane Bus Gate General Arrangement			
Drawn: ZH	Check: GF	Appr: GF	Date: 14/09/2021
Status: CONCEPT			Scale at A3: 1:200
Drawing No: NMH-ATI-C-05-00-01	Revision: A		