

CDM NOTE: The design has been undertaken as far as possible to avoid risks to health and safety or to reduce and control the effects of any unavoidable risks.

All relevant information identifying the unavoidable risks has been passed to the planning supervisor for inclusion in the Health & Safety plan.



Stevenage Project E Nobel School

Drawing Description:

Fairlands Way, Mobbsbury Way Junction Location Plan

Drawing Number: Hertfordshire County Council

Corporate Services

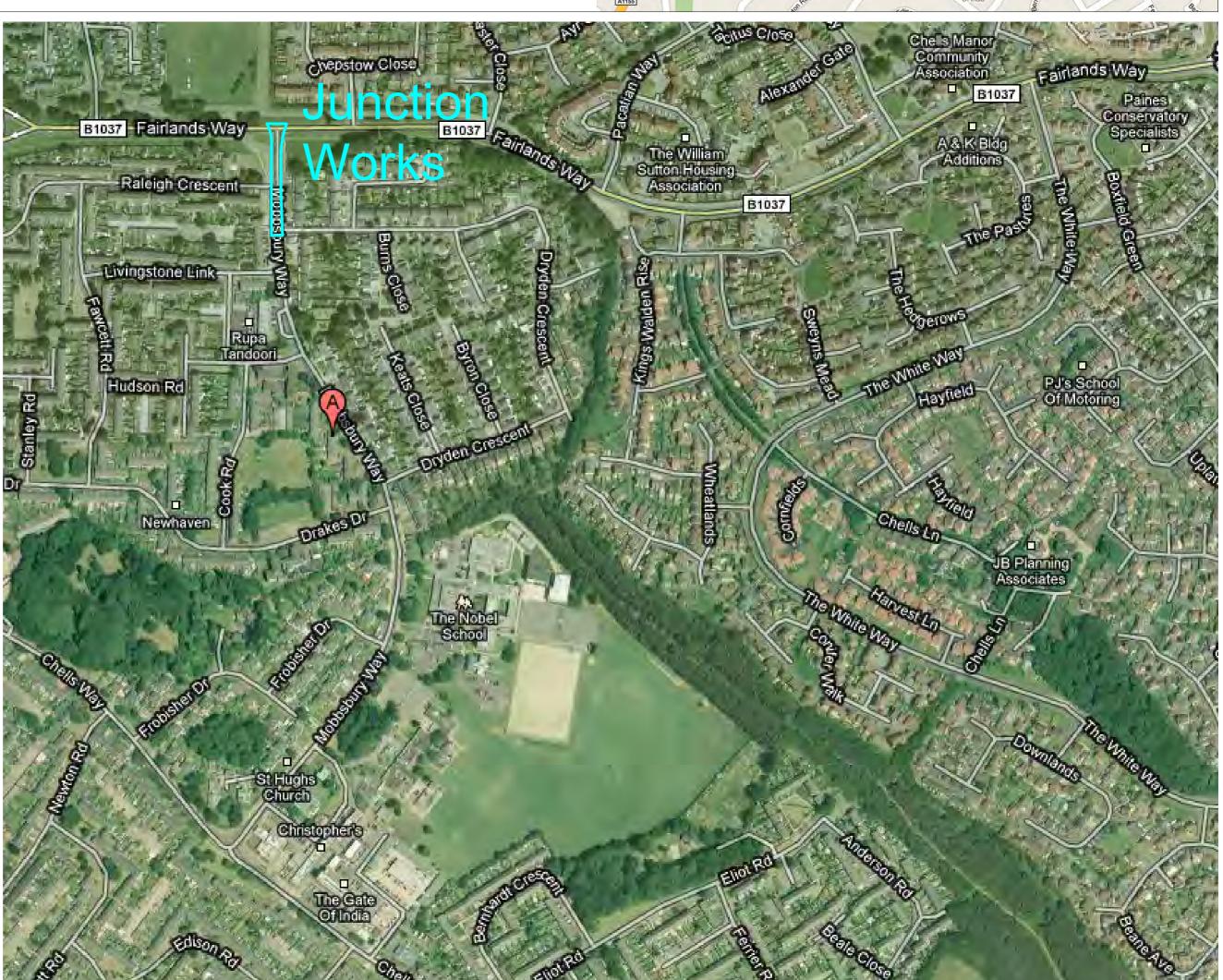
Architect:

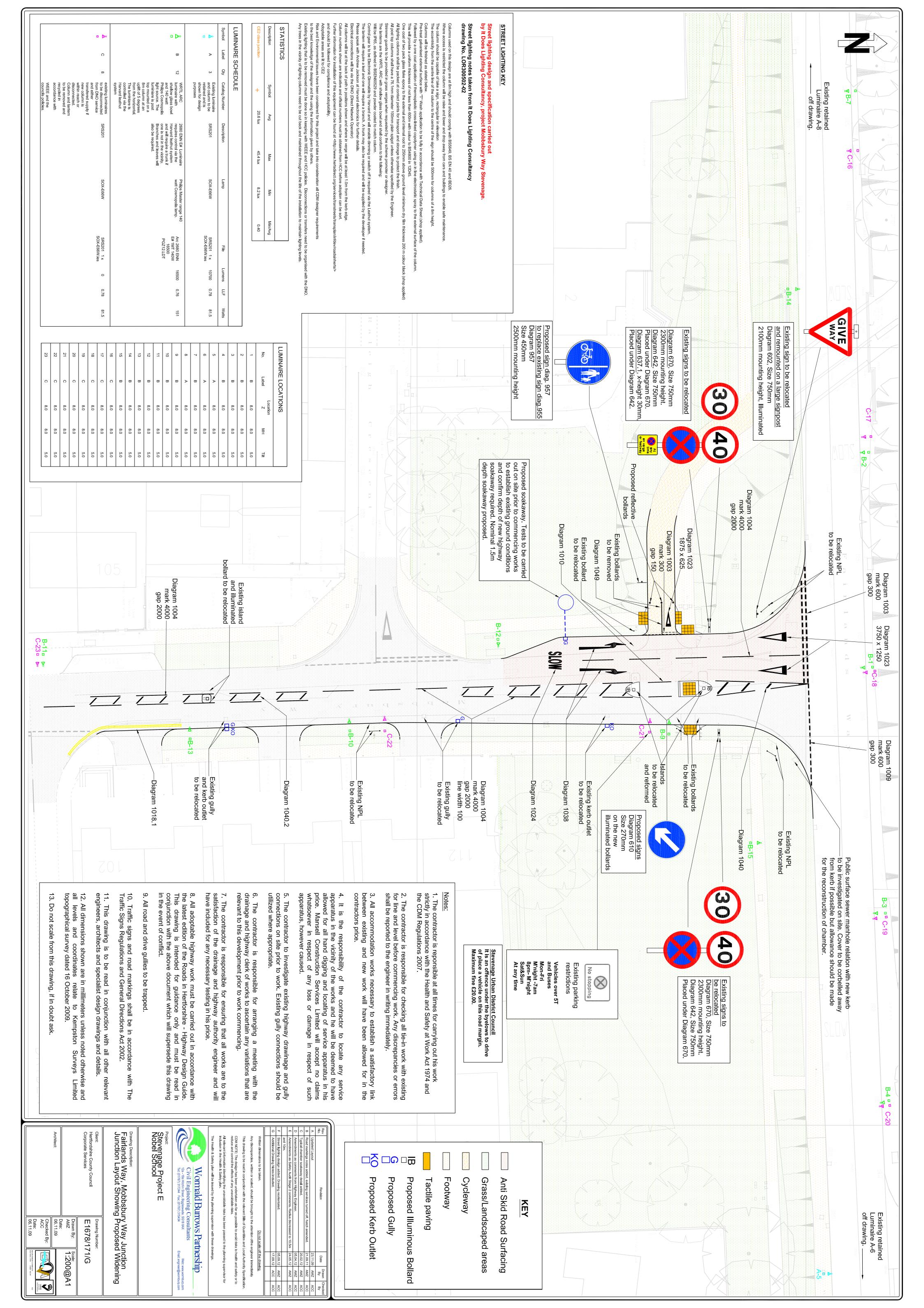
E1678/170 Drawn By: AMZ

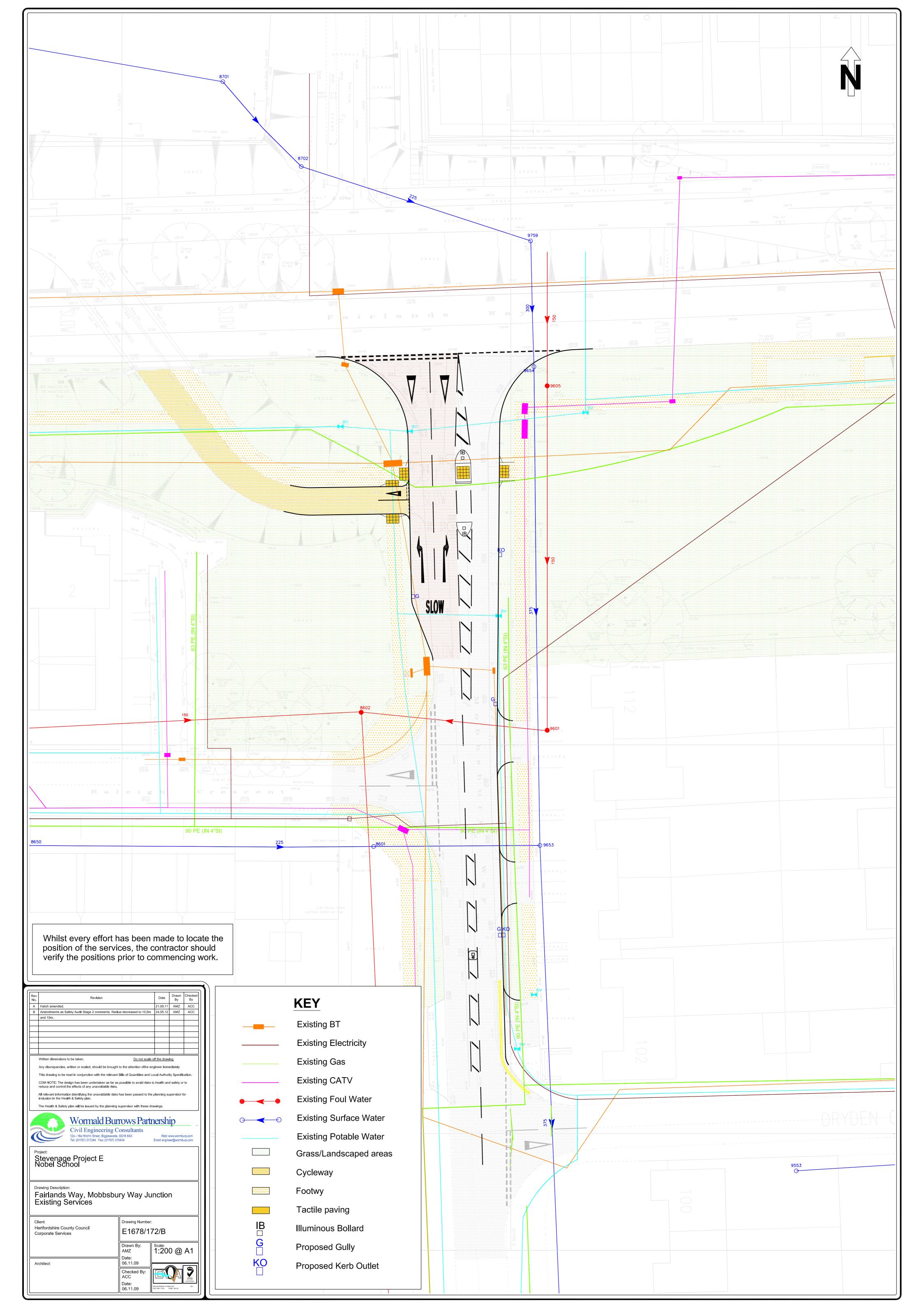
Date: 16.11.09 Checked By: ACC Date:

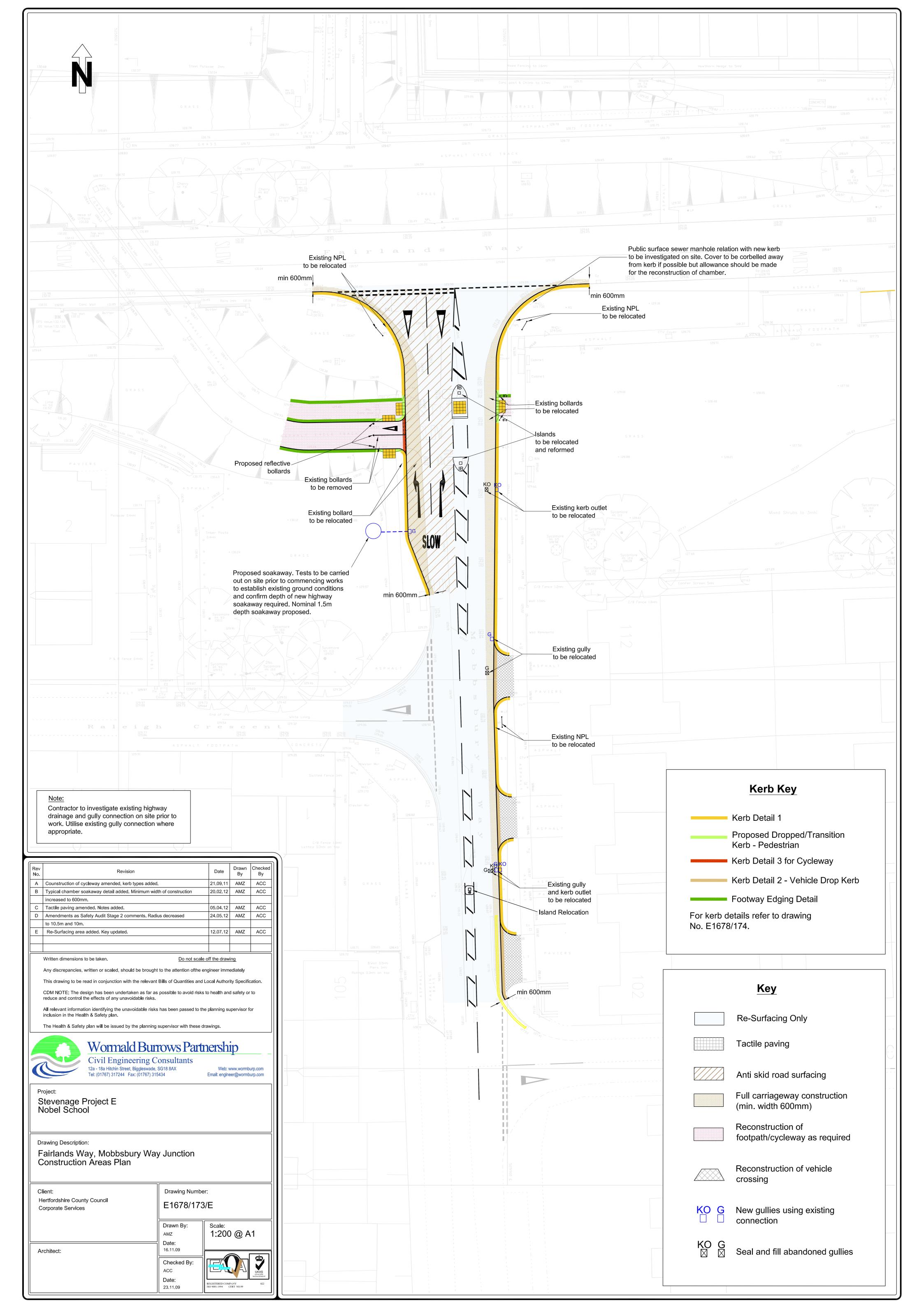
23.11.09

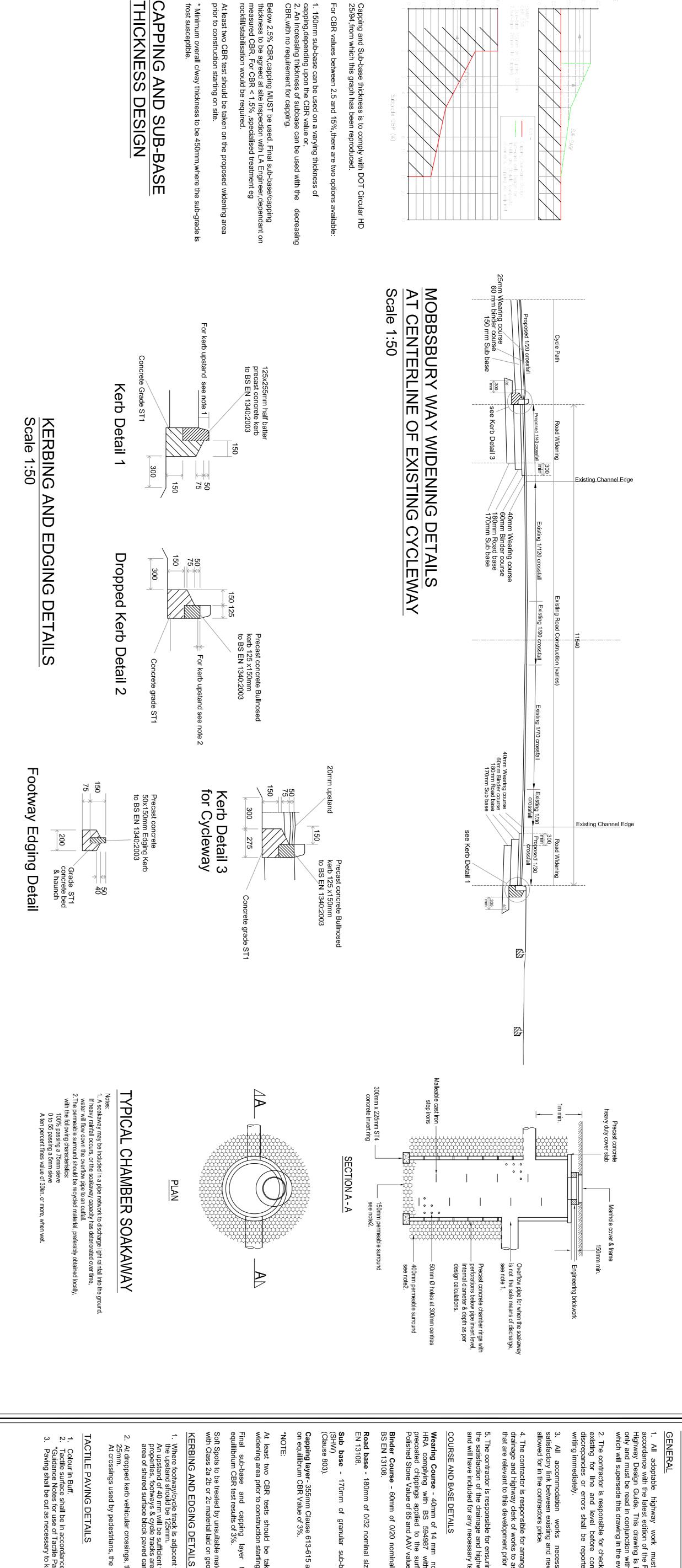
Scale: 1:500 @ A1

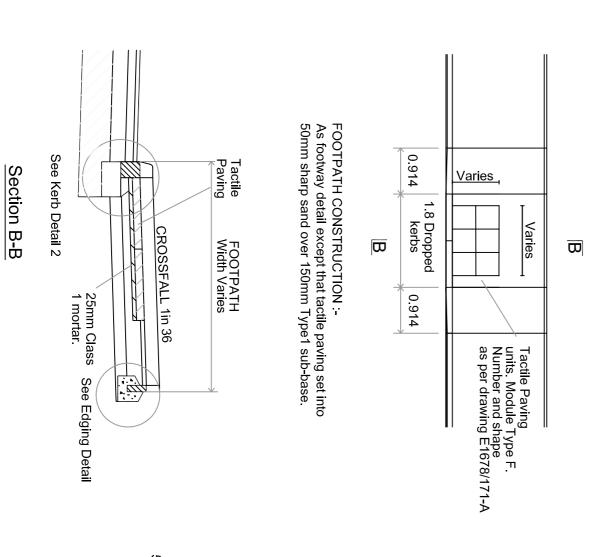




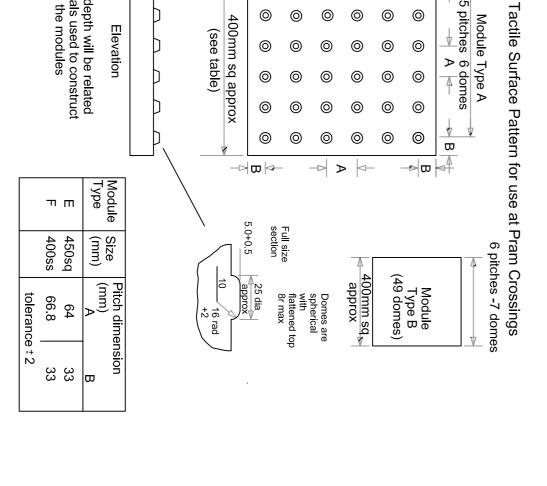




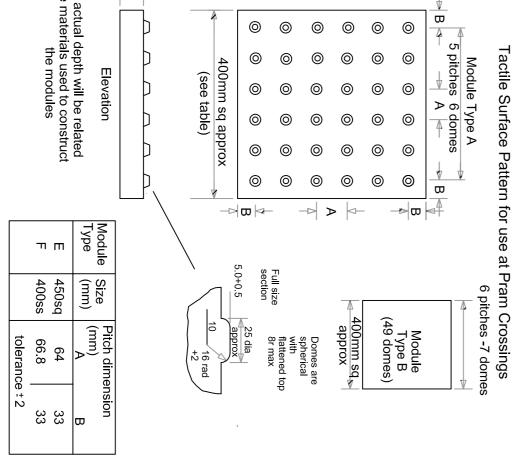


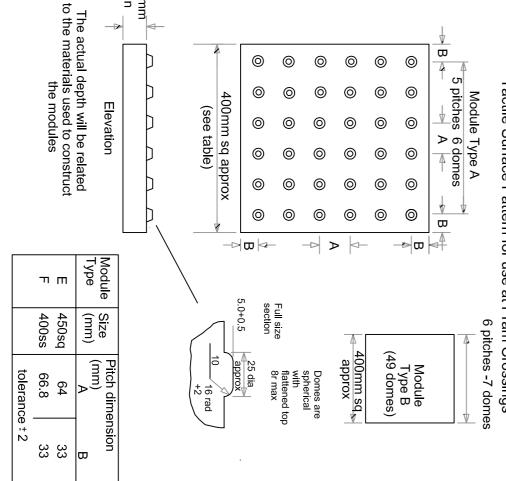






Footway gradient of 2.5% maintained 0.8m min.





DROPPED KERB CROSSING FOR VEHICLES AND PEDESTRIANS

Scale 1:50

Scale 1:10

900

MOBBSBURY WAY WIDENING DETAILS

1. All adoptable highway work must be carried out in accordance with the latest edition of the Roads in Hertforshire - Highway Design Guide. This drawing is intended for guidance only and must be read in conjunction with the above document which will supersede this drawing in the event of conflict.

ll accommodation works necessary to establish a actory link between existing and new work will have been at for in the contractors price.

The contractor is responsible for checking all tie-in work with existing for line and level before commencing work. Any discrepancies or errors shall be reported to the engineer in writing immediately.

The contractor is responsible for ensuring that all works are to the satisfaction of the drainage and highway authority engineer and will have included for any necessary testing in his price. 4. The contractor is responsible for arranging a meeting with the drainage and highway clerk of works to ascertain any variations that are relevant to this development prior to work commencing.

CAPPING THICKNESS (mm)

SUB-BAS 1-ICKNES (mm)

COURSE AND BASE DETAILS

Wearing Course - 40mm of 14 mm nominal size aggregate HRA complying with BS 594987 with 0/20 nominal size precoated chippings applied to the surface with a minimum Polished Stone Value of 65 and AAV value of 10.

Binder Course - 60mm of 0/20 nominal size BS EN 13108.

Capping layer- 355mm Clause 613-615 on equillibrum CBR Value of 3%.

At least two CBR tests should be taken on widening area prior to construction starting on site.

Soft Spots to be treated by unsuitable material being replaced with Class 2a 2b or 2c material laid on geotextile.

Where footway/cycle track is adjacent to the carriageway the the upstand should be 125mm.

An upstand of 40 mm will be sufficient where adjacent properties, footways & cycle tracks are be separated from an area of shared surface block paved carriageway.

the upstand should be ze

TACTILE PAVING DETAILS

Colour in Buff.
 Tactile surface shall be in accordance with
 "Guidance Notes for use of Tactile Paving Surfaces".
 Paving shall be cut as necessary to kerb radius if requ

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				o	ი		8	A	Rev No.			
Any discrepancies, written or scaled, should be brought to the attention of the engineer immediately	Written dimensions to be taken.			Additional drawing notes included.	Mobbsbury Way widening detail revised.	Highway's Engineer comments.	Typical chamber soakaway detail added. Minor amendments after	Cross section updated.	Revision			
ineer imm	f the draw			17.09.12	12.07.12		20.02.12	21.09.11	Date			
pd ate v	lig			ACC	AMZ		AMZ	ZMA	Drawn By			
				ACC	ACC		ACC	ACC	Checked By			

1			sarety p
12a - 18a Hitchin Street, Biggleswade, SG18 8AX Tel: (01767) 317244	Civil Engineering Consultants	Wormald Burrows Partnership	. Safety plan will be issued by the planning supervisor with these drawings.
Web: www.wormburp.cor	,	tnership	drawings.

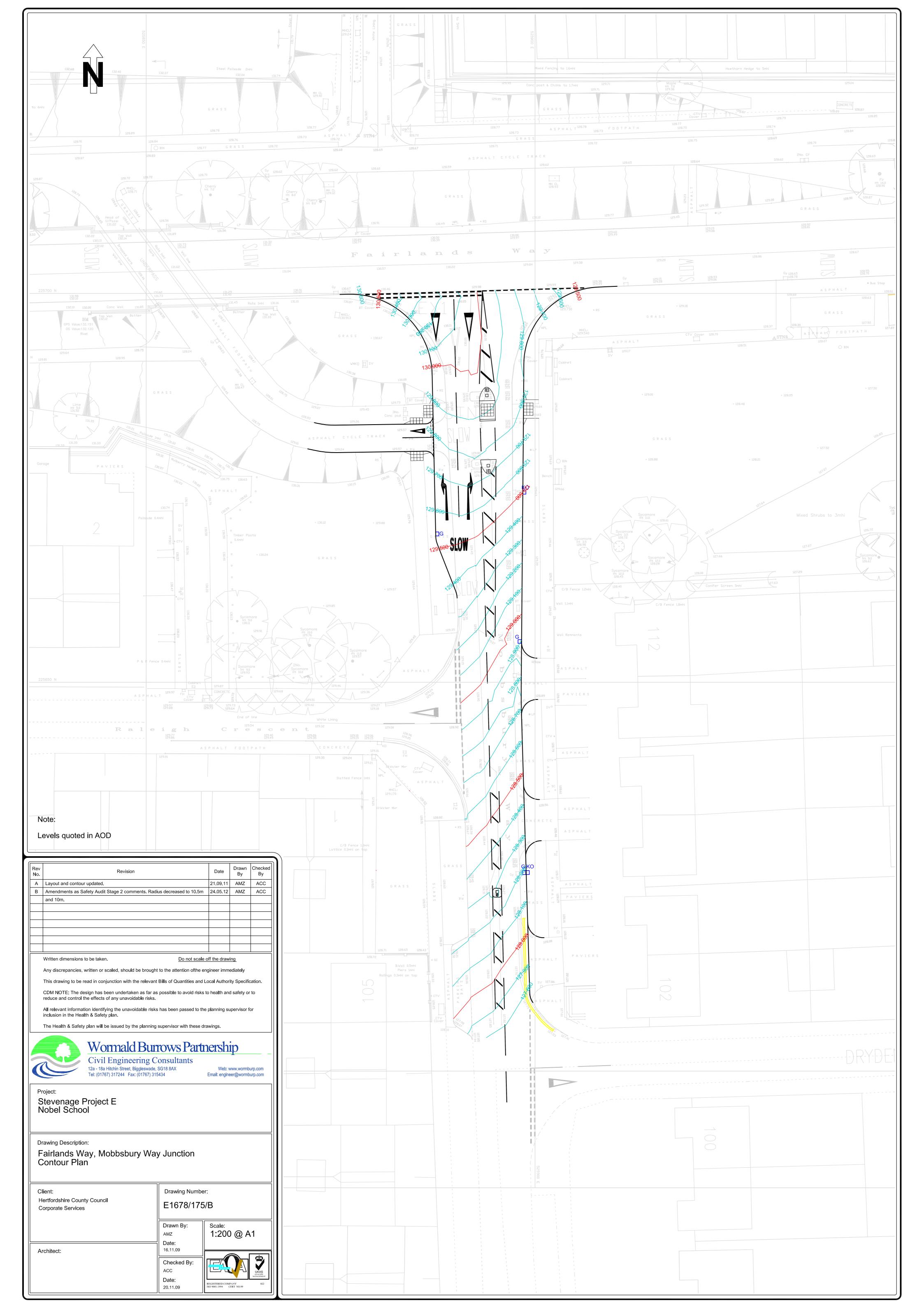
Stevenage Project E Nobel School

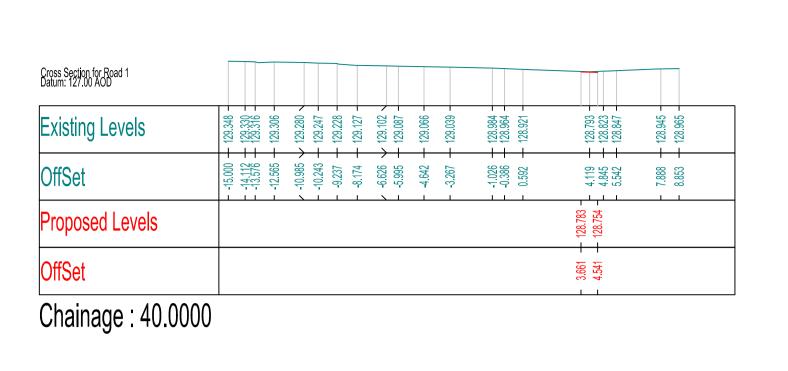
Section A-A

Prawing Description:
Fairlands Way, Mobbsbury Way Junction
Construction Details

E1678/174/D UKAS OUKAS WASACHARING

As shown





Cross Section for Road 1 Datum: 127.00 AOD							
Existing Levels	129.195 129.197 129.167 129.167	128.957 128.931 128.760 128.761 128.761 128.761	128.706	128.541	- 128.658 -	(128.713	
OffSet	-15.000 -14.401 -14.401 -12.655		-0.968	3.571	- 5.929 -	8.808	
Proposed Levels				- 128.541 -			
OffSet				- 3.571			

Chainage : 30.0000

Cross Section for Road 1 Datum: 127.00 AOD						
Existing Levels	129,045	- 128.938	128.739 - 128.73 - 128.636 - 128.636 - 128.433 - 128.433	- 128.435 - - 128.410 - - 128.385 - -	128.3239 128.3239 128.3239 128.424 128.453 128.455 128.455	
OffSet	-15.000	11.490		0.843 - 0.059 - 0.934	3.3578 4.4552 4.4557 6.6570 8.6631 8.723 8.723 8.723	
Proposed Levels		•			- 128.282 -	
OffSet					- 3.578 -	

Chainage : 20.0000

Cross Section for Road 1 Datum: 127.00 AOD							
Existing Levels	128.807	- 128.645 - 128.616 - 128.515	- 128.477 - 128.454 - 128.426	128.344 > 128.242 - 128.218 -	- 128.191	- 128.098 - 128.058 - 128.144	4 25 25 25 25 25 25 25 25 25 25 25 25 25
OffSet	-15.000	9.9428.416 -	6.560 5.528	-3.388	0.445 -	- 2.355 - 3.558 - 4.335 -	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Proposed Levels						- 128.058 - - 128.031 -	
OffSet						- 3.558 - - 4.385 -	

Chainage : 10.0000

Cross Section for Road 1 Datum: 127.00 AOD							
Existing Levels	128.807	- 128.645 128.616	128.474 - 128.454 - 128.426	128.344 \ 128.242 \ 128.218	128.191	128.098	428.134 428.134 428.165 728.165 728.189
OffSet	-15.000	11.315	-7.388	-3.247	- 0.445	- 2.355 - 3.558 - 4.335 -	7.043 7.602 7.704 7.704 8.392
Proposed Levels				- X/ - I		- 128.058	
OffSet						- 3.558 -	
Chairean 110 00	.00						

Cross Section for Road 1 Datum: 126.00 AOD	
Existing Levels	128.251 128.231 128.021 128.021 127.03
OffSet	8.825 1.733 1.
Proposed Levels	127.731
OffSet	4.723

Cross Section for Road 1 Datum: 128.00 AOD				
Existing Levels	129.328	22	129.795 129.797 129.828 129.776 129.761	129.376
OffSet	15.00012.7359.798	7. 664444 7. 66444 7. 66444 7	3.238 3.336 4.142 7.158 8.243 1.258 1.258 1.258 1.258 1.258 1.258	- 15.000 +
Proposed Levels		- 129.789		
OffSet		5.993		
Proposed Levels			- 129.767 129.721	
OffSet			- 4.142 - 5.548 -	
Proposed Levels	- 129.373 -	- 129.809 -	· ·	
OffSet	-15.000	-6.268		

Chainage: 72.8550 Cross section at existing cycle track

Existing Levels	29.630 129.673 129.673 129.673 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.683 129.783 129.
OffSet	-14.072 -14.072 -14.072 -15.000 -1.1.46 -1.2.23 -1.1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1.46 -1
Proposed Levels	- 129.734 - 129.770 -
OffSet	4.053
Proposed Levels	129.635 -
OffSet	4.083

Cross Section for Road 1 Datum: 127.00 AOD							
Existing Levels	- 129.866 - 129.808 - 129.823 -	- 129.746 -	- 129.656 X 129.615 29.525	129.504 129.498 -	- 129.448 - 129.414 - 129.459 \\ 129.485 - 129.486 \\ 129.486 - 12	- 129.162 -	- 128.985 -
OffSet	15.000 - 13.651 - 12.625 -	8.731	5.545	0.583	2.432 3.3917 3.3942 5.5828 7.386 7.386 7.386 9.126	- 12.292	- 15.000 -
Proposed Levels		•	- 129.531 -			•	
OffSet			5.996 -				
Proposed Levels					- 129.357 -		
OffSet					3.917 + 5.150 +		

Cross Section for Road 1 Datum: 127.00 AOD											
Existing Levels	129.595	- 129.499	- 129.501	129.527	129.443 129.397 129.305	(129.244	- 129.160	129.071 129.038 129.138 129.138	129.206	129.210	128.648
OffSet	-15.000	-12.126	-10.183	-6.813	3.370	X 2003	1.225	2.871 3.745 3.770 4.337	7.237	8.787	14.137
Proposed Levels		L	<u> </u>					. 129.038	I		
OffSet								3.745			

Chainage: 50.0000

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Cross Section for Road 1 Datum: 128.00M AOD							
Existing Levels (m)	130.787	130.689	- 130.170	130,063	(129.917 >	129.659 +	- 129.619
Offset (m)	15.000	12.968 11.733 10.667 10.667	4.359	-1.356	× 2324 2324 × 3.623 + 3.623	8.760 + X + 772.11 -	- 13.497 -
Proposed Levels (m)		130.435	,		V		
Offset (m)		-11.117					
Proposed Levels (m)		17				129.635 -	
Offset (m)						- 036.6	

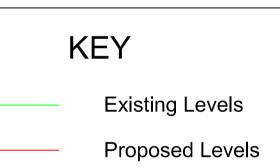
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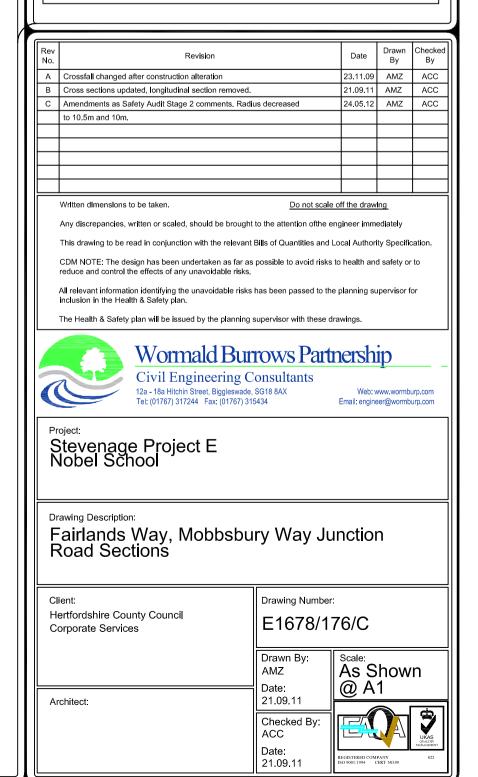
Offset (m)								- 4.289 -			
Proposed Levels (m)								- 129.856 - - 129.801 -			
Offset (m)				5.985 -							
Proposed Levels (m)				- 129.934 - - 129.955 -							
Offset (m)	15.000 -	-12.811 -12.704 -11.708 -	-9.583	6.448 5.360 5.360 5.360	2.956 - -1.875 \ -1.351 \ - 0.971 -	- 0.084 - - 0.840 -	- 2.273 -	 4.282 4.307 5.505 	- 7.696 - 9.172 \ 9.383 \	- 10.994 -	- 15.000 -
Existing Levels (m)	- 130.174 -	X 130.204 130.208 + 130.170	X 130.079 X 130.077	730.024 130.048 130.048 130.033 130.095 130.055	129.967 129.983 129.982	- 129.988 - 129.952 -	- 129.901 -	X 129,856 129,963 130.018	- 129.805 - 129.812 \ 129.809 \	- 129.705	<u> </u>
Cross Section for Road 1 Datum: 128,00M AOD											

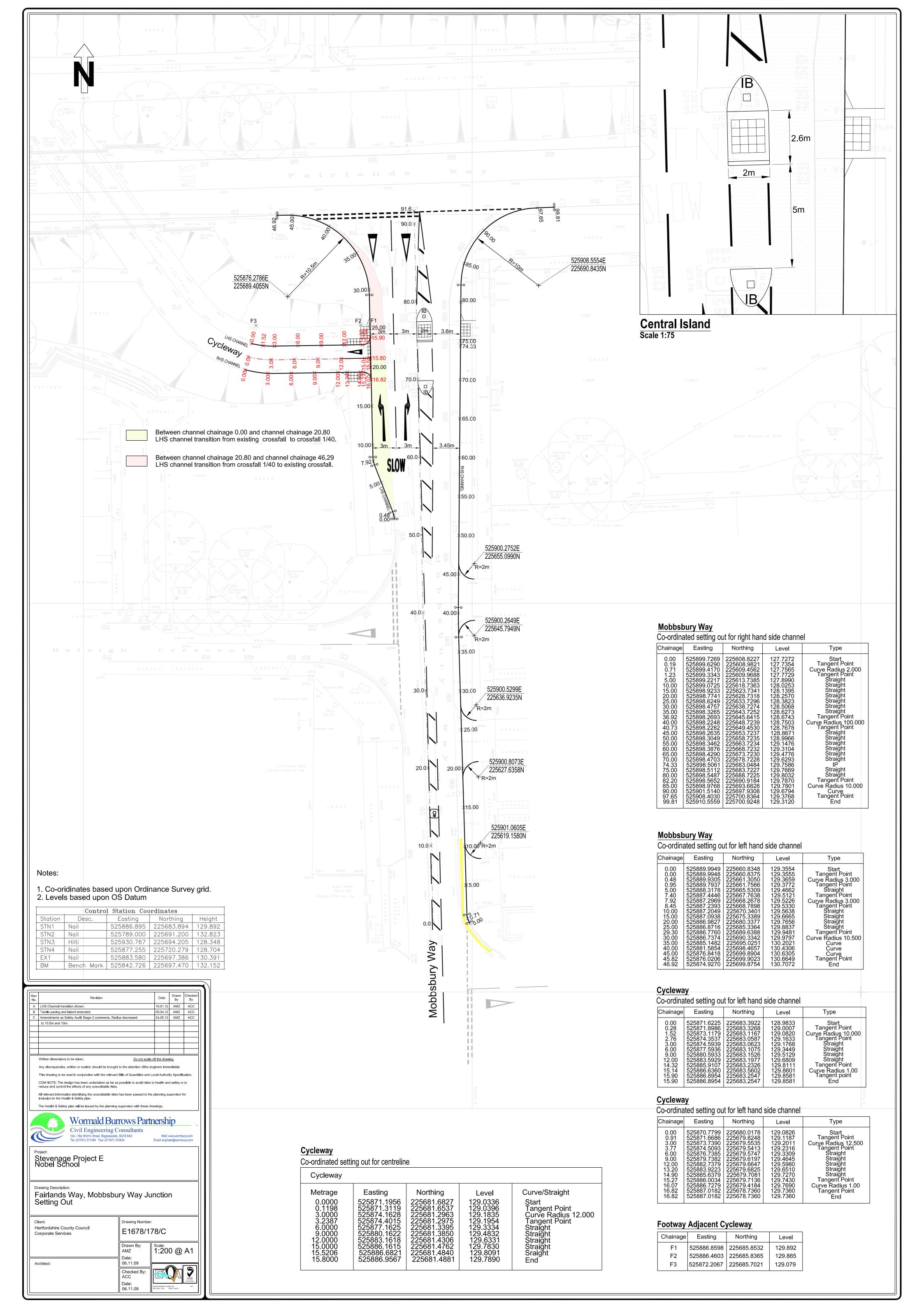
Chainage: 80.000m

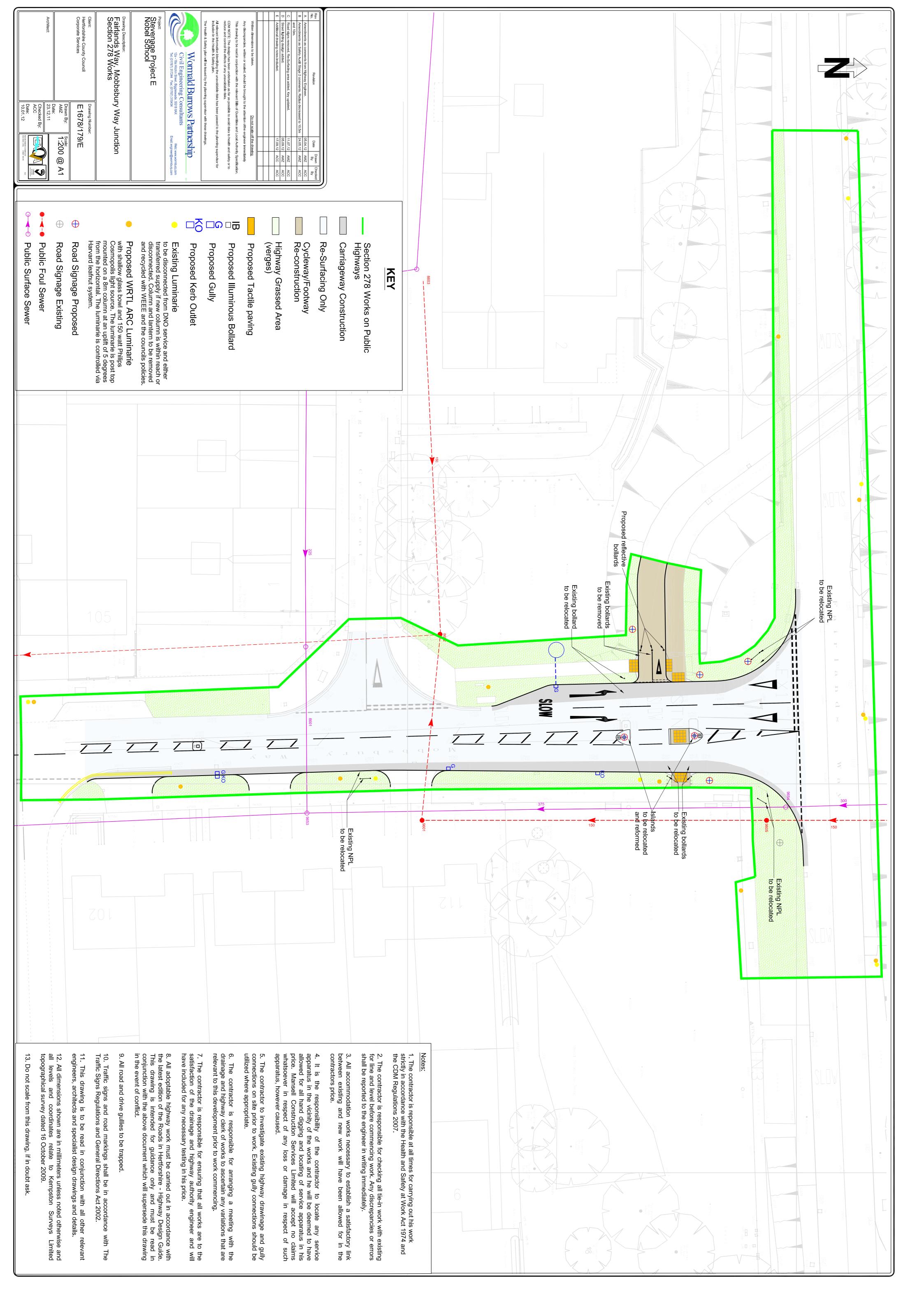
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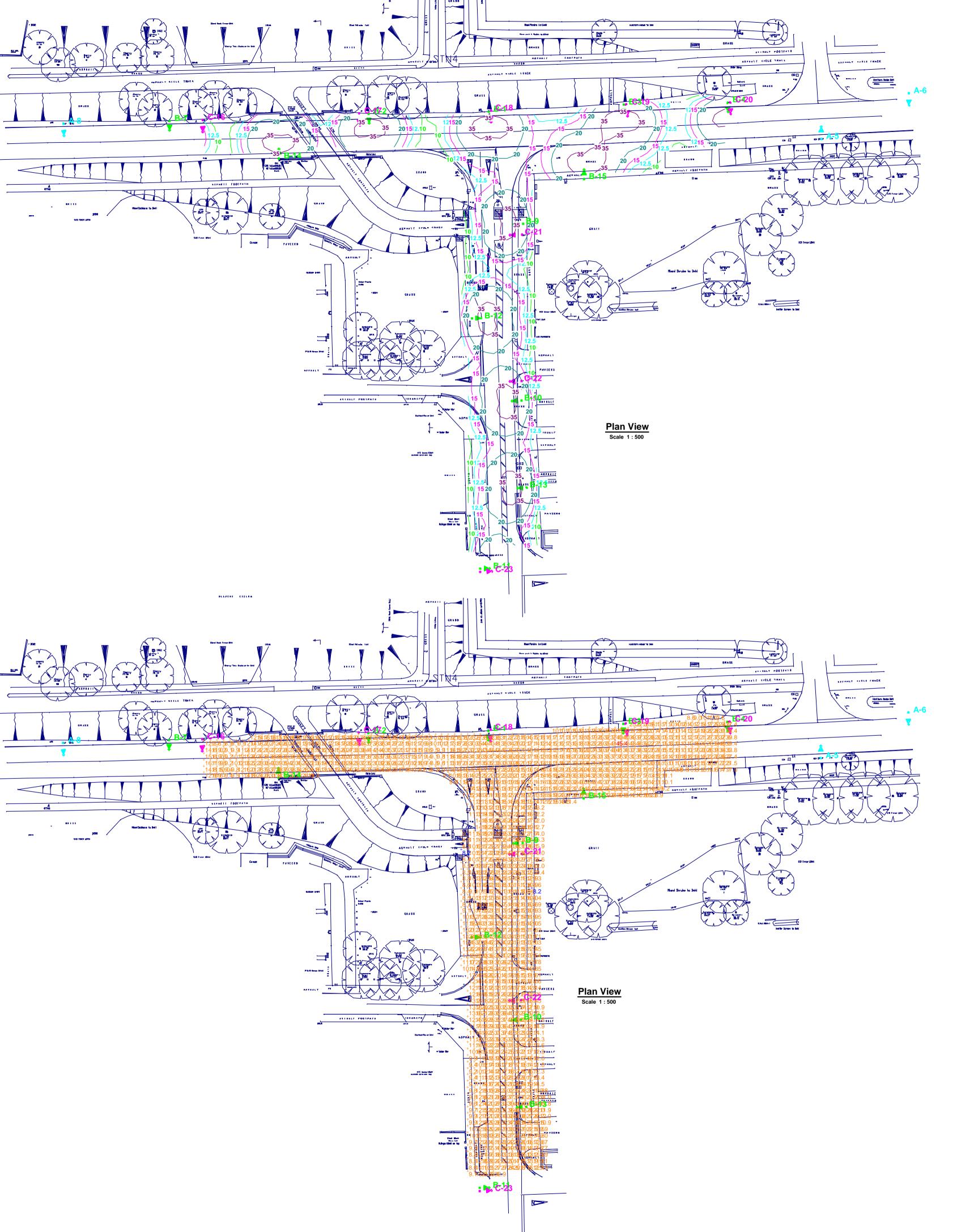
1:200 Vertical Horizontal 1:200











NOTES

Columns used on this design are at 8m high and should comply with BS5649, BS EN 40 and BD26.

Where access is restricted the column will be raise and lower and drop away from cars and buildings to enable safe maintenance.

The column should be capable of take a sign, rectangular in elevation The eccentricity from the centre line of the column to the centre of the sign should be 500mm for columns of a 8m height.

Columns will be finished as stated below.

Pre-treat galvanised external surface with "T" Wash application to be fully in accordance with Technical Data Sheet (shop applied).

Followed by a one coat application of thermoplastic cross-linked copolymer using an in line electrostatic spray to the external surface of the column. This will provide a uniform thickness of not less than 600m with colour to BS4800 in 12D45.

One coat of two pack glass flake epoxy to the external and internal root to 250mm above ground level minimum dry film thickness 200 m colour black (shop applied)

All lighting columns shall be packed at contact points for transport and storage to protect the finish. All post top columns shall have a 76.1mm diameter 100mm plain spigot unless otherwise specified by the Engineer.

Strimmer guards to be provided in grass verges when requested by the scheme promoter or designer.

The lanterns are the WRTL ARC with shallow glass bowl and shall conform to the following: Will be IP65, as defined in BSEN60529 and powder coated to match column.

Control gear is to be Electronic Dimmable by Harvard and will enable dimming or switch off it required via the Leafnut system. The lantern will require a leaf and one will require a branch. A trunk may also be required and will be supplied by the developer if needed.

Please speak with Andrew Jackson at Harvard electronics for further details.

Electrical connections will be via the DNO (Direct Network Operator)

All columns will be at the back of path in positions shown and where in verge will be at least 1.0m from the kerb edge. Column numbers shown are indicative and official numbers must be obtained from HCC before adoption can be sort.

Further information for installation of this equipment can be found at http://www.hertsdirect.org/services/transplan/infdev/roadsinherts/

and should be followed for compliance and adoptability. Adoptable areas are lit to CE2

Risk and Environmental issues have been considered for this project and take into consideration all CDM designer requirements

to the best knowledge of the designer and the using the information given by others.

Existing lighting that is to be removed must be done so in keeping with WEEE and HCC policies. Disconnections or transfers need to be organised with the DNO.

Any trees in the vicinity of lighting columns need to be cut back and maintained throughout the life of the installation to maintain lighting levels.

LUMIN	LUMINAIRE LOCATIONS							
		Location						
No.	Label	Z	МН	Tilt				
1	В	8.0	8.0	5.0				
2	В	8.0	8.0	5.0				
3	В	8.0	8.0	5.0				
4	В	8.0	8.0	5.0				
5	Α	8.0	8.0	5.0				
6	Α	8.0	8.0	5.0				
7	В	8.0	8.0	5.0				
8	Α	8.0	8.0	5.0				
9	В	8.0	8.0	5.0				
10	В	8.0	8.0	5.0				
11	В	8.0	8.0	5.0				
12	В	8.0	8.0	5.0				
13	В	8.0	8.0	5.0				
14	В	8.0	8.0	5.0				
15	В	8.0	8.0	5.0				
16	С	8.0	8.0	5.0				
17	С	8.0	8.0	5.0				
18	С	8.0	8.0	5.0				
19	С	8.0	8.0	5.0				
20	С	8.0	8.0	5.0				
21	С	8.0	8.0	5.0				
22	С	8.0	8.0	5.0				
23	С	8.0	8.0	5.0				

STATISTICS					
Description	Symbol	Avg	Max	Min	Min/Avg
CE2 class junction	1	20.6 luy	45.4 lux	8.2 luy	0.40

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	A	3	Existing luminaire and column to be retained and is shown for design purposes	SRS201	SOX-E66W	SRS201 1 x SOX-E66W.ies	10700	0.78	81.5
Â.	В	12	WRTL ARC luminaire with shallow glass bowl and 140 watt Philips Cosmopolis light source. The luminiare is post top mounted on a 8m column at an uplift of 5 degrees from the horizontal. The luminiare is controlled via the Harvard leafnut system	2680 ENN E# Luminaire requires control via the Harvard leafnut system and will require a trunk if one is not in the vicinity. Branches and leaves will also be required.	Philips Master range 140 watt Cosmopolis lamp.	Arc 2680 ENN E# 1MT 140W 16500 PGZ12.LDT	16500	0.76	151
	С	8	existing luminaires to be disconnected from DNO service and either transfered supply if new column is within reach or disconnected. Column and lantern to be removed and recycled in accordance with WEEE and the councils policies.		SOX-E66W	SRS201 1 x SOX-E66W.ies	0	0.78	81.5



Stevenage Way Mobbsbur

Designer

Lorraine Calcott

Date

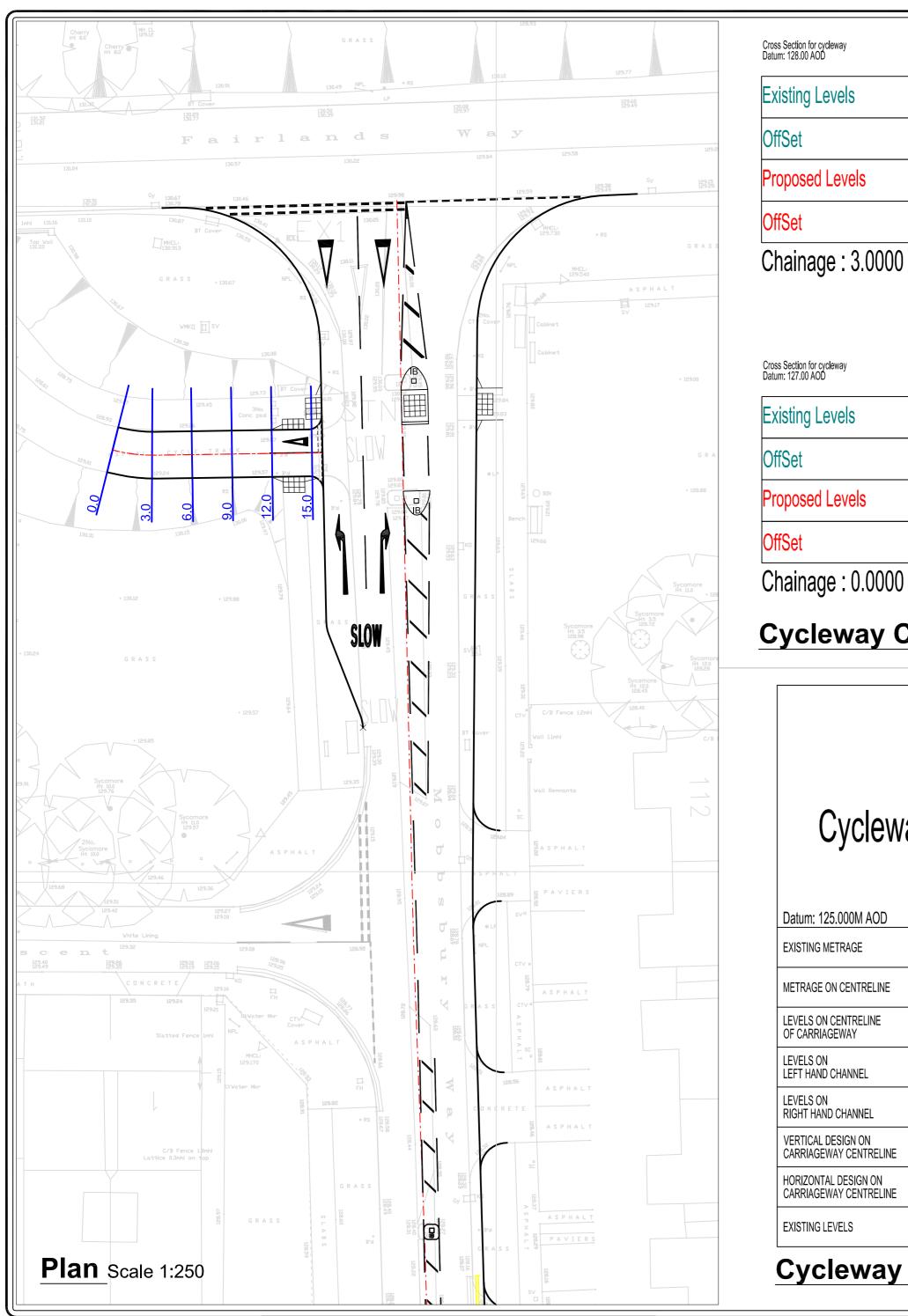
Aug 30 2012

Scale

As shown at A1

Drawing No. LOR300502-02

1 of 1

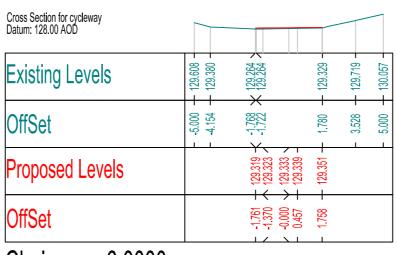


Cross Section for cycleway Datum: 128.00 AOD				
Existing Levels	- 129.201 -	- 129.116 -	- 129.177 - 129.210 - 129.440	- 130.034
OffSet	- 5.000	1.916	- 0.729 - 1.718 - 2.610 -	- 5.000
Proposed Levels		- 129.151 -	- 129.183 -	
OffSet		1.762	0.000 -	
Chaireage 1 2 0000	•			

Chainage : 3.0000

Cross Section for cycleway Datum: 128.00 AOD	
Existing Levels	129.734 129.557 129.419 129.414 129.447 129.640 129.740
OffSet	- 5,000 - 1,756 - 0.024 - 1,786 - 1,78
Proposed Levels	- 129.487 - 129.483 - 129.484
OffSet	0.000
Chainage: 9.0000	

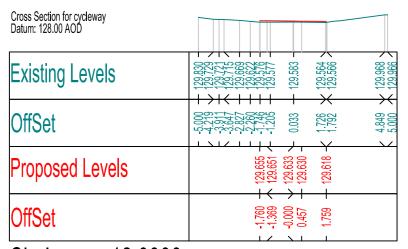
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Chainage : 6.0000

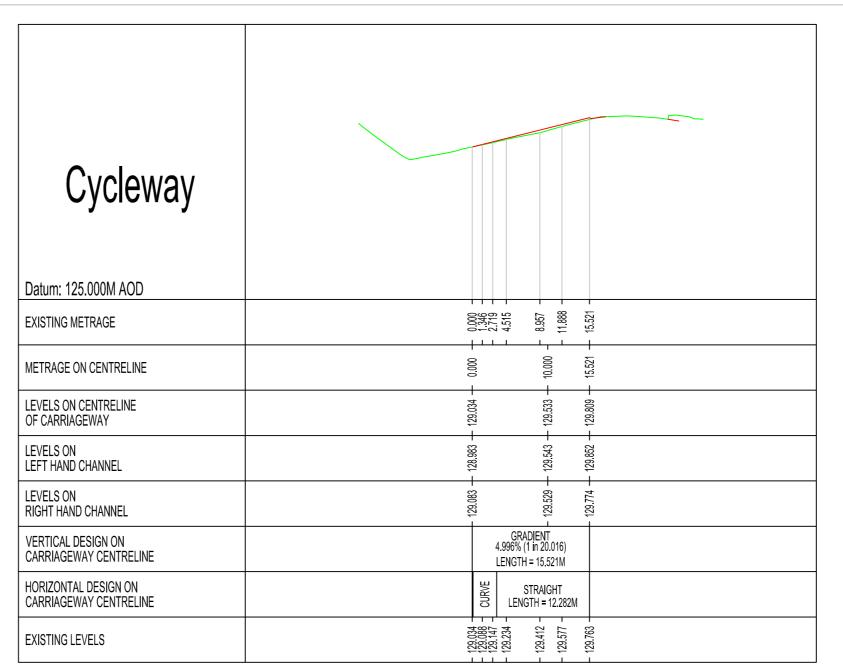
Cross Section for cycleway Datum: 128.00 AOD **Existing Levels** OffSet Proposed Levels OffSet

Chainage: 15.0000

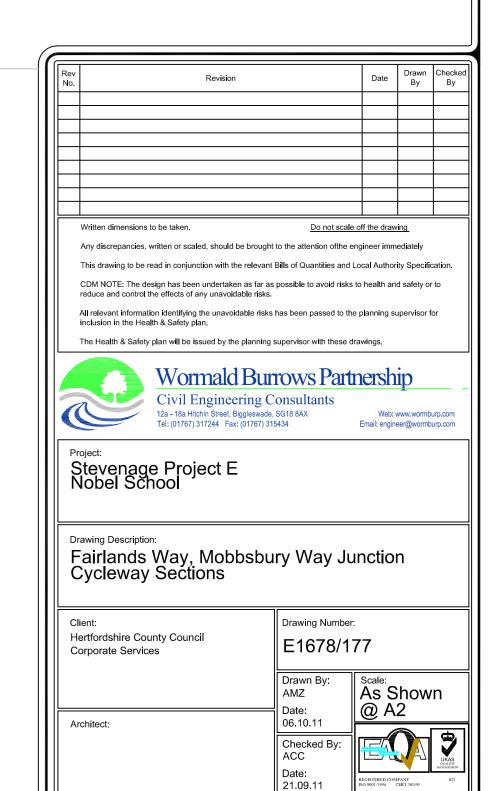


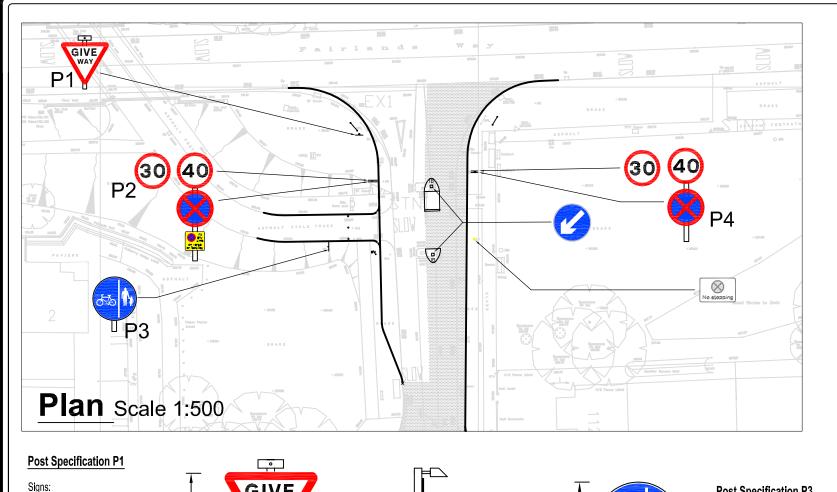
Chainage : 12.0000

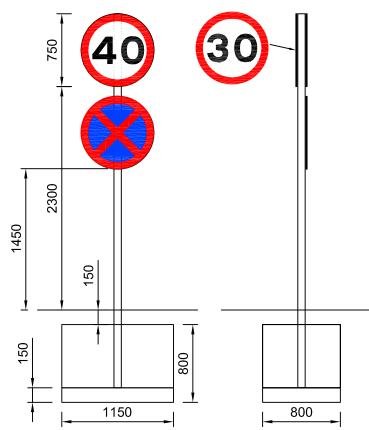
Cycleway Cross Sections Scale V 1:200, H 1:200



Cycleway Longitudinal Section Scale V 1:100, H 1:500







Post Specification P4

Reference: Diagram 670 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing front Mounted on posts: 1 Mounting height: 2300mm

Reference: Diagram 642 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing front Mounted on posts: 1 Mounting height: 1450mm

Reference: Diagram 670 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing back Mounted on posts: 1 Mounting height: 2300mm

Quantity: 1 Type: 76.1 x 3.2 CHS Spacing: N/A Post 1 Length: 3850mm

Type: Combined Width: 1150mm Length: 800mm Depth: 800mm Volume: 0.74cu m Earth cover: 150mm Blinding layer: 150mm

Signs: Reference: Diagram 602 Orientation: Facing front Mounted on posts: 1 Mounting height: 2100mm

Posts:

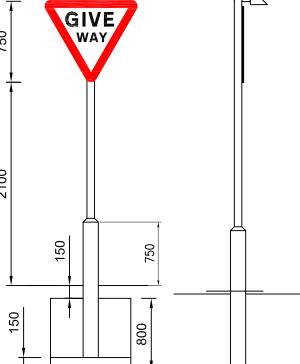
Quantity: 1 Type: 76.1 x 3.2 CHS with base 180 x 3.2 CHS Post total length: 3970mm Finish: Galvanised and grey plastic coated

Base:

Material: ST4 concrete Width: 950mm Length:950mm Depth: 800mm Volume: 0.72cu.m Earth cover: 150mm Blinding layer: 150mm

Illumination:

Orientation: Facing front Light on posts: 1 Inspection hatch and electrical equipment to meet Hertfordshire Highways and Roads in Hertfordshire. A guide to New Developments. Appendix 14/5" requirements



Post Specification P3

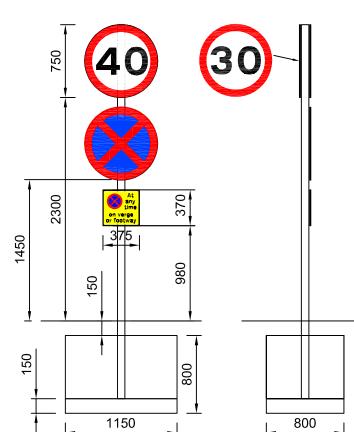
Signs: Reference: Diagram 957 Orientation: Dual Facing front and back Mounted on posts: 1 Mounting height: 2500mm

Quantity: 1 Type: 76.1 x 3.2 CHS Post total length: 3550mm Finish: Galvanised and grey plastic coated

Base:

Material: ST4 concrete Width: 600mm Length:600mm Depth: 600mm Volume: 0.22cu.m Earth cover: 150mm Blinding layer: 150mm

Illumination: None



Post Specification P2

Reference: Diagram 670 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing front Mounted on posts: 1 Mounting height: 2300mm

Reference: Diagram 642 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing front Mounted on posts: 1 Mounting height: 1450mm

Reference: Diagram 637.1 Width: 375mm, Height: 370mm Shape: Rectangle Orientation: Facing front Mounted on posts: 1 Mounting height: 980mm

Reference: Diagram 670 Width: 750mm, Height: 750mm Shape: Roundel Orientation: Facing back Mounted on posts: 1 Mounting height: 2300mm

Quantity: 1

Type: 76.1 x 3.2 CHS Spacing: N/A Post 1 Length: 3850mm

Type: Combined Width: 1150mm Length: 800mm Depth: 800mm Volume: 0.74cu.m Earth cover: 150mm Blinding layer: 150mm

Rev No.	Revision	Date	Drawn By	Checked By	
					1
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950



Corporate Services

Hertfordshire County Council

2500

20

150

Wormald Burrows Partnership Civil Engineering Consultants

800

Do not scale off the drawing

Any discrepancies, written or scaled, should be brought to the attention of the engineer immediately This drawing to be read in conjunction with the relevant Bills of Quantities and Local Authority Specification

CDM NOTE: The design has been undertaken as far as possible to avoid risks to health and safety or to reduce and control the effects of any unavoidable risks.

All relevant information identifying the unavoidable risks has been passed to the planning supervisor for inclusion in the Health & Safety plan.

The Health & Safety plan will be issued by the planning supervisor with these drawings.

Date: 23.05.12

Checked By: ACC

Date: 24.05.12

As Shown @ A3

Signs Construction Details

Drawing Number: E1678/185



Stevenage Project E Nobel School