

BOND No: TS BND 4410309

DATED 8TH DECEMBER 2015

**BARNSLEY METROPOLITAN BOROUGH COUNCIL**

and

**BARNSLEY COLLEGE DEVELOPMENT COMPANY LIMITED**

and

**TRAVELERS CASUALTY AND SURETY COMPANY OF EUROPE LIMITED**

**AGREEMENT**

under Sections 72 and 278 of the Highways Act 1980 and Section 111 of the Local Government Act 1972 relating to highway improvements at Shambles Street, St. Mary's Place and Westgate, Barnsley, South Yorkshire

A.C. Frosdick, LL.B., DipLG,  
Director of Legal and Governance  
Town Hall  
Barnsley  
S70 2TA

**THIS AGREEMENT** is made the

8<sup>th</sup>

day of

December

Two thousand and fifteen

**BETWEEN**

1. **BARNSELY METROPOLITAN BOROUGH COUNCIL** of the Town Hall  
Barnsley South Yorkshire S70 2TA ("**the Council**")
2. **BARNSELY COLLEGE DEVELOPMENT COMPANY LIMITED** (Company  
number:06994842) whose registered office is situate at P O Box 266 Church  
Street Barnsley S70 2YW ("**the Company**")
3. **TRAVELERS CASUALTY AND SURETY COMPANY OF EUROPE LIMITED**  
of Exchequer Court, 33 St. Mary Axe, London EC3A 8AG ("**the Surety**")

**INTERPRETATION**

In this Agreement:-

"**the Act**" means the Highways Act 1980 as amended by the New Roads and Street Works Act 1991

"**the Blue Land**" means the land shown edged in blue on Drawing number S228.01 revision P3 attached at Schedule 1 hereto which is intended to become highway maintainable at public expense as provided herein

"**CDM Regulations**" means the Construction (Design and Management) Regulations 2015

"**Certificate of Completion**" means the certificate to be issued by the Highways Officer upon the satisfactory completion of the Works

"**Church Street Works**" means the works to be carried out at Church Street Barnsley by the Council as shown on the drawings listed in and attached at Schedule 3 hereto

"**the Company**" includes the successors in title and assigns of the Company

**“Conditions of Contract”** means the Institution of Civil Engineers- Conditions of Contract with such additions or amendments thereto as may be approved by the Highways Officer

**“the Development”** means the new college building at the Site for which planning permission has been granted under Reference 2013/1390 dated 19 March 2014

**“the Drawings”** means the drawings listed and attached at Schedule 1 hereof

**“the Final Certificate”** means the certificate to be issued by the Highways Officer upon the satisfactory completion of the Works

**“the Highway”** means the highways called Shambles Street, St. Mary’s Place and Westgate at Barnsley

**“the Highways Officer”** means the Head of Highways Engineering and Transportation for the time being of the Council and includes any professional officer appointed by him for the purpose of the supervision or inspection of the Works

**“the Maintenance Period”** means a period of twelve calendar months from the date of the issue of the Certificate of Completion

**“Safety Audit”** means a specified stage or stages of independent road safety audit procured pursuant to the Design Manual for Roads and Bridges

**“Safety Audit Works”** means any amended or additional works or any other measures necessary in order to comply with the recommendations of a Safety Audit

**“the Section 115 Agreement”** means an agreement entered into between the Council and a relevant sewerage undertaker pursuant to section 115 of the Water Industry Act 1991 to allow connections of highway drainage to the public sewerage system made pursuant to or ancillary to the Works

**“the Site”** means the land at the junction of Shambles street and St. Mary’s Place Barnsley

**“the Supervision Fee”** means the sum of £59,060.00 (fifty nine thousand and sixty pounds) being the fees which are estimated will be incurred by the Council in checking and approving the drawings site inspections and administration of the Works of which a sum of £10,000.00 (ten thousand pounds) has already been paid to the Council receipt of which is hereby acknowledged

**“the Specification”** means the Specification for Highway Works published by HMSO with all amendments up to the date hereof

**“the Works”** means the works described generally in Schedule 2 hereof and indicated in outline on the Drawings and any amended or additional works as provided for herein

Clause headings are for ease of reference only and shall not form part of this Agreement for the purposes of its construction or interpretation

### **WHEREAS**

- (1) The Council is the Highway Authority for the purposes of the Act
- (2) The Company has the benefit of planning permission for the Development at the Site and the Council the Company are desirous that the Works shall be carried out to facilitate the Development
- (3) The Works are wholly required to improve access to the Site to a standard required for traffic safety and thus facilitate the Development and the Company will derive a special benefit if the Works are executed and the Surety has agreed to join in this Agreement to guarantee the obligations of the Company hereinafter contained and to be bound in the manner hereinafter appearing

- (4) The Company has the benefit of a lease of the site from the Council and has control of the Site
- (5) The Council is the freehold owner of the Site and more particularly the Blue Land and acknowledges that once the Works have been carried out as provided for herein the Blue Land shall become highway maintainable at the public expense
- (6) The Company shall execute or procure the execution of the Works as agent for and on behalf of the Council
- (7) This Agreement is made pursuant to Sections 72 and 278 of the Act and Section 111 of the Local Government Act 1972 and the Council is satisfied that it will be of benefit to the public
- (8) Nothing herein contained shall operate to restrict or prejudice the powers duties and rights of the Council under the Highways Act 1980 and the New Roads and Street Works Act 1991

**NOW IT IS HEREBY AGREED** by and between the parties as follows:-

**1. SAFETY AUDITS**

- 1.1 The Company shall at the relevant times procure Stage 1, 2 and 3 Safety Audits in respect of the Works and shall immediately upon receipt supply a copy of the relevant report to the Highways Officer
- 1.2 The Company shall prepare and submit to the Highways Officer for his approval details of any Safety Audit Works required arising from any of the Safety Audits and if the Highways Officer deems that no amended or additional works or any other measures are necessary he shall notify the Company in writing to that effect

- 1.3 The Company shall carry out and complete the Safety Audit Works at its own expense and in the same manner as the Works
- 1.4 The Company shall certify to the Highways Officer in writing that it has fully complied with the recommendations of the Safety Audits in respect of the Works or if the Highways Officer has notified the Company that no Safety Audit Works are required it shall submit to the Highways Officer a written statement of the reasons why the recommendations of the Safety Audits have not been complied with

2. **CONSENT TO WORK IN THE HIGHWAY**

- 2.1 The Council shall during such hours of working as may be agreed in advance with the Highways Officer permit the Company to enter upon the Highway for the purpose of carrying out the Works and all matters in connection with the carrying out of the Works

3. **EXECUTION OF THE WORKS**

- 3.1 The Company shall at its own expense for the purpose of carrying out the Works:-
- (a) carry out surveys as required by the Highways Officer of the Highway and the Site
  - (b) carry out site investigation works
  - (c) appoint a designer approved by the Highways Officer to design a scheme for the Works (including all necessary drawings and documents to be approved by the Council) ("**the Approved Documents**")

- (d) appoint a contractor approved by the Highways Officer for the construction of the Works in accordance with a form of contract which shall be approved by the Highways Officer ("**the Contract**")

3.2 The Company shall:

- (a) procure the provision in writing of a programme and timetable for the Works which shall be submitted to and approved by the Highways Officer prior to the commencement of the Works or any part thereof ("**the Approved Programme**")
- (b) upon the request of the Highways Officer procure the provision of a written programme and timetable for any temporary traffic arrangements or any other measures which may be necessary or required in connection with the carrying out of the Works which shall be submitted to and approved by the Highways Officer prior to the commencement of the Works or any part thereof and shall comply with any further requests of the Highways Officer at any time during the carrying out of the Works
- (c) procure that the Works are carried out at its own expense in a good and workmanlike manner with proper and suitable materials to the satisfaction of the Highways Officer in accordance with the Specification and the Approved Documents and once commenced to proceed diligently with the Works and to use reasonable endeavours to complete the Works in accordance with the Approved Programme and in any case within six months of the date of this Agreement
- (d) before the commencement of the Works take whatever steps are necessary to locate and identify any services apparatus and equipment

of any utility company Local Authority or other body which is situated in or on under or over the Highway or which may otherwise be affected by the Works and shall supply to the Highways Officer copies of all consultations which have been carried out copies of all consents and approvals obtained and details of any diversion or other works required to any services equipment or apparatus affected by the Works

**(“Apparatus Works”)**

- (e) carry out and complete the Apparatus Works at its own expense and in the same manner as the Works
- (f) procure compliance with all conditions and requirements imposed by any utility company local authority or other body in respect of any services equipment or apparatus affected by the Works
- (g) give the Highways Officer free access to the Site as is reasonably necessary for the proper inspection of the Works
- (h) procure that the Works are undertaken pursuant to the CDM Regulations
- (i) ensure the Works comply in every respect with the latest edition of Chapter 8 of the Traffic Signs Manual published by the Department of Transport
- (j) at its own expense arrange for all materials and soils in connection with the Works to be tested by a UK Accreditation Service (NAMAS) accredited laboratory and shall submit the test results to the Highways Officer and meet the costs of any further testing required by the Highways Officer

3.3 In the event the Highways Officer determines that any variations to the Works are required the Highways Officer shall notify the Company as soon as reasonably practicable of any revised or additional works which may be necessary and the Company shall carry out and complete the revised or additional works at its own expense and in the same manner as the Works

#### **4. FEES AND COSTS**

4.1 The Company shall on the completion of this Agreement pay to the Council:

- (i) the remaining balance of the Supervision Fee;
- (ii) the sum of £1,000.00 being the Council's legal fees in the preparation and completion of this Agreement; and
- (ii) the sum of £5,925.17 (five thousand nine hundred and twenty five pounds and seventeen pence) in respect of the costs of the Council in the carrying out and completion of the Church Street Works

4.2 In the event the fees incurred by the Council exceed the Supervision Fee the Highways Officer shall provide a certified estimate of the sum of the increased fees and the Company shall pay the said sum of the increased fees to the Council within 28 days of receiving a written request therefor

#### **5. CERTIFICATES AND MAINTENANCE PERIOD**

5.1 The Company may at any time when it believes the Works have been completed notify the Highways Officer in writing whereupon the Highways Officer shall make arrangements to inspect the Works and if the Works have been completed to his satisfaction the Highways Officer shall issue the Certificate of Completion to the Company or if not the Highways Officer shall

notify the Company of any outstanding items and the Company shall provide the Highways Officer with a program for their completion

- 5.2 The Company shall at its own expense maintain the Works and the Blue Land throughout the Maintenance Period and shall make good any defects or damage arising or occurring in the Works during that period to the satisfaction of the Highways Officer
- 5.3 After the expiration of the Maintenance Period and provided the Company has made good any defects or damage to the entire satisfaction of the Highways Officer and provided that all monies due to the Council hereunder have been paid the Highways Officer shall issue the Final Certificate to the Company and shall as soon as reasonably practicable thereafter release the Surety from its liability as provided in Clause 10.3 hereof
- 5.4 For the avoidance of doubt the covenants on the part of the Company contained in Clause 7 of this Agreement shall not be affected by the issue of the Final Certificate
- 5.5 On the expiry of the Maintenance Period the Company shall submit to the Highways Officer 'as-built' drawings and the Health and Safety file pursuant to the requirements of the CDM Regulations

**6. ADOPTION OF THE BLUE LAND**

- 6.1 Upon the issue of the Certificate of Completion the Blue Land shall be deemed to have been dedicated as highway for use by the public
- 6.2 Upon the issue of the Final Certificate the Blue Land shall become highway maintainable at the public expense

**7. COMPENSATION AND INDEMNITY**

- 7.1 The Company will on demand reimburse the Council with all expenditure it may properly incur in relation to any valid and proper claims made pursuant to the Noise Insulation Regulations 1975 or Part I of the Land Compensation Act 1973 arising from the use of the Highway as altered by the Works and the Roads constructed by the Works together with the reasonable legal costs and surveyor's fees incurred either by the Council or any third party whose costs the Council is legally obliged to pay in connection with the processing and settlement of any such claims
- 7.2 The Company will indemnify and keep indemnified the Council against all costs actions proceedings claims demands damages and losses of whatever nature arising out of the non-observance non-performance or other breach of the Company's obligations under this Agreement and all claims demands damages and losses of whatever nature which may be suffered by the Council due to any reason connected with the carrying out of the Works
- 7.3 The Company will indemnify and keep indemnified the Council against all costs actions proceedings claims demands damages and losses of whatever nature arising as a consequence of the discharge of water or any other substance or material whatsoever from the highway drainage system
- 7.4 The Company shall insure or shall procure that the Contractor carrying out the Works shall insure against any damage loss or injury which may occur to any property or person arising by or out of the execution of the Works otherwise than due to any act or omission of the Council and such insurance shall be effected prior to the commencement of the Works with an insurer on terms approved by the Council (such approval not to be unreasonably

withheld or delayed) for at least the sum of £10,000,000 for each and every claim

7.5 The Company shall be responsible for

(a) all of the costs that the Council may incur in entering into a section 115 Agreement including any costs the sewerage undertaker may charge under the Section 115 Agreement for technical administrative supervisory or legal costs from time to time

(b) notifying the relevant sewerage undertaker of their intention to commence drainage connection works

(c) carrying out any maintenance or remedial works required by the sewerage undertaker pursuant to the Section 115 Agreement; and

(d) shall indemnify the Council against all losses liabilities claims costs damages and expenses arising from any claim by a sewerage undertaker any person or competent authority arising from or ancillary to the connection of the highway drains to the public sewer

## **8. DETERMINATION BY THE COUNCIL**

8.1 In the event the Company fails to perform or observe any of its obligations herein contained or if a receiving order in bankruptcy is made the Company or if the Company is wound up or enters into a composition or arrangement (otherwise than for the purpose of amalgamation or reconstruction) the Council may without prejudice to any of its rights claims or remedies against the Company for such non-performance or non-observance determine this Agreement by notice in writing to the Company sent to the address stated in this Agreement Subject always to the provisions of clauses 9 and 10 hereof

**9. DEFAULT POWERS**

9.1 Without prejudice to clauses 6 and 8 hereof if the Company fails to execute or complete the Works in accordance with the Company's obligations hereunder the Council shall be entitled to execute or complete the Works in default by its own employees contractors or otherwise and to recover from the Company all of the costs incurred by the Council thereby as certified in writing by the Highways Officer Provided that this default power shall only be exercisable by the Council after at least twenty eight days notice of that intention has been given in writing to the Company and the Surety and neither of those parties has commenced action to remedy any breach non-observance or non-performance during that time

**10. SURETY'S OBLIGATIONS**

- 10.1 The Surety hereby covenants with the Council that if at any time the Company fails to observe or perform any the covenants herein contained or if circumstances shall arise which would entitle the Council to terminate this Agreement then without prejudice to any other rights and remedies of the Council against the Company under this Agreement or under statutory powers the Surety shall pay to the Council such sum or sums which become due under this Agreement and which the Company would have been liable to pay under the terms hereof Provided that the total liability of the Surety under this clause shall not exceed the sum of £900,402.00 (nine hundred thousand four hundred and two pounds)
- 10.2 The Surety shall not be discharged or released from its liability under this Agreement by any arrangement made between the Company and the Council

or by any alteration in the Company's obligations or by any forbearance whether as to payment performance or otherwise made with or without the assent of the Surety

10.3 The Surety shall only be released from its liability hereunder once the Council's Final Certificate has been issued pursuant to this Agreement unless otherwise agreed in writing by the Council

11. **IT IS HEREBY AGREED AND DECLARED** as follows:-

11.1 If at any time prior to the commencement of the Works the Company wishes to terminate this Agreement it may do so by giving notice to the Council accompanied with the written consent of the Surety and the Council shall give the Company an account of all abortive costs reasonably and properly incurred by the Council in respect of this Agreement Within 28 days from the date of that account if that account shows that the payments made by the Company under the foregoing provisions of this Agreement have exceeded those costs the Council shall refund that excess and if that account shows that those costs exceed the payment made by the Company under the foregoing provisions of this Agreement the Company shall pay to the Council a sum equal to that excess

11.2 That for the purpose of carrying out its obligations under this Agreement but for no other purpose whatsoever the Company will act as agent for and on behalf of the Council

11.3 The Company is to act as the only client in respect of the Works pursuant to the CDM Regulations

**SCHEDULE 1**  
**THE DRAWINGS**

H.01.01 rev P6

H.01.03 rev P1

H.01.04 rev P3

H.01.05 rev P2

H.05.01 rev P3

H.07.01 rev P4

H.08.02 rev P3

H.08.03 rev P3

H.08.04 rev P3

H.10.01 rev P1

H.10.02 rev P1

H.11.01 rev P5

H.12.01 rev P6

H.12.02 rev P5

S228.01 rev P3

S228.02 rev P1

855671018/D/001 rev 3

## **SCHEDULE 2**

### **THE WORKS**

- a) Amendments to traffic signals;
- b) Reconstruction and resurfacing of existing carriageways and footways;
- c) Provision of street furniture;
- d) Associated signing, drainage and street lighting works;
- e) Any works ancillary to the above.

**SCHEDULE 3**

**THE CHURCH STREET WORKS**

TR/3691/01

TR/3691/02

TR/SL/3691/1RS

TR/S;/3691/2RS

TR/SL/3691/3RS

**EXECUTED** by the parties hereto as a Deed the day and year first before written

**THE COMMON SEAL** of Barnsley )

Metropolitan Borough Council was )

hereunto affixed in the presence of:- *ds*



Director of Legal and Governance/Authorised Signatory

No. 1838  
IN REGISTER

**THE COMMON SEAL** of Barnsley )

College Development Limited was )

hereunto affixed in the presence of:- )



Director



Director/Secretary



**EXECUTED AND DELIVERED AS A DEED**

by TRAVELERS CASUALTY AND SURETY

COMPANY OF EUROPE LIMITED

acting by

Authorised Signatory



Full Name

TAM ROBINSON

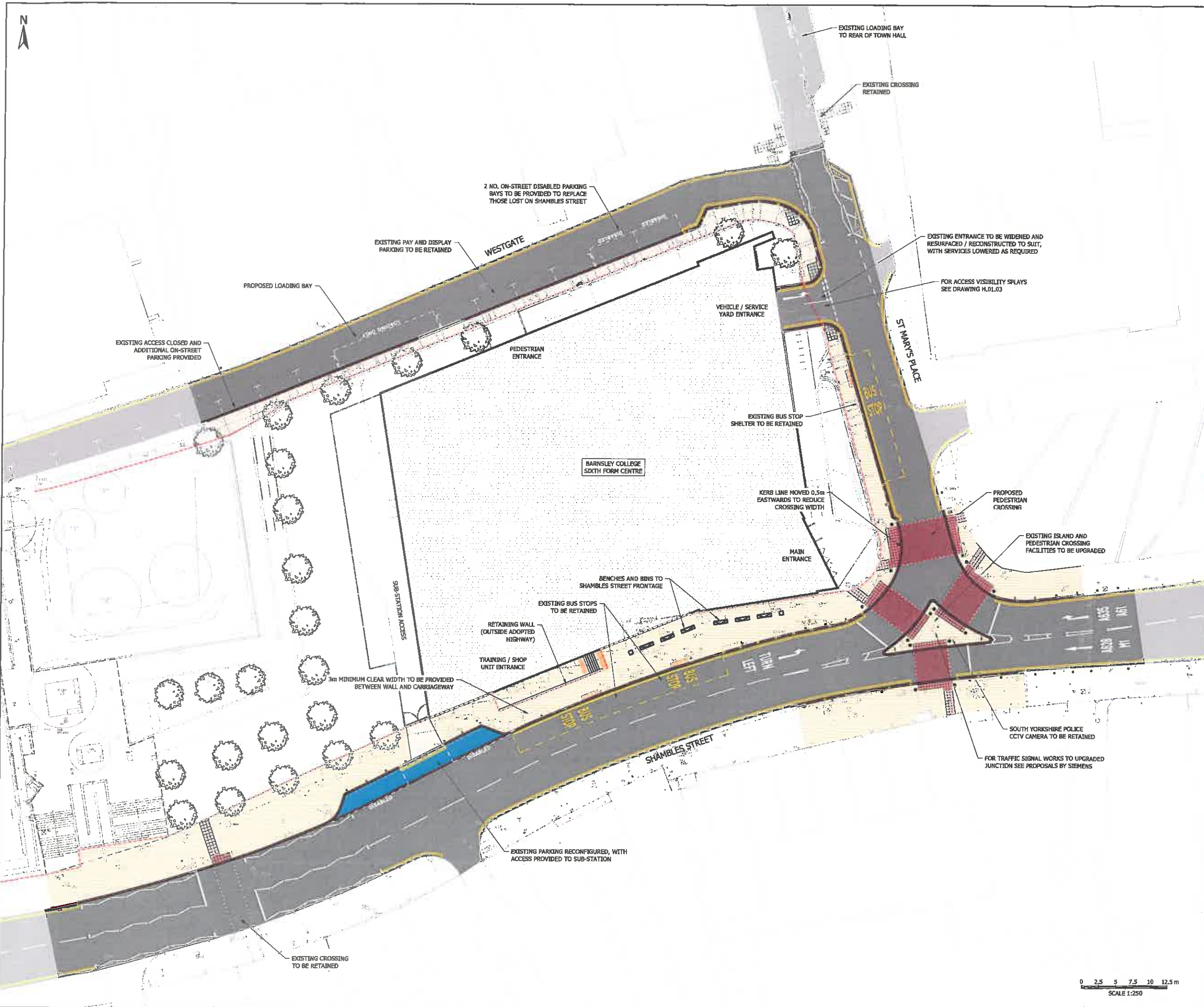
Authorised Signatory



Full Name

BRIAN FALLON

FILENAME: H:\PROJECTS\A029037-12\ADD\HIGHWAYS\H.01.01 S278 GENERAL ARRANGEMENT.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 07 September 2015 17:46:34



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**KEY**

- 300 x 200 / 300 / 400 / 500 x 65 mm BUFF YORKSTONE PAVING SLABS
- 100 x 120 / 180 / 240 x 75 mm BUFF YORKSTONE SETS
- BANDING IN YORKSTONE PAVING TO 'GREEN SPRINT' ROUTE
- SCOUNTMOOR PAVING SETTS TO SHAMBLES STREET DISABLED PARKING BAY
- EXISTING CARRIAGEWAY TO BE RESURFACED / NEW CARRIAGEWAY
- 300 x 200 x 600-900 mm BLACK GRANITE KERBS, WITH DROPPER & CENTRE UNITS
- GREY BLISTER TACTILE PAVING FLAGS TO UNCONTROLLED CROSSING
- RED BLISTER TACTILE PAVING FLAGS TO CONTROLLED CROSSINGS
- ADOPTED HIGHWAY BOUNDARY FOLLOWING STOPPING UP / DEDICATION (SEE NOTE 5)

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
  - PAVING MATERIALS, KERBING AND STREET FURNITURE ARE TO BE IN ACCORDANCE WITH BMBC REQUIREMENTS AND ARE TO MATCH THE WIDER TOWN CENTRE PALETTE.
  - INSPECTION COVERS FOR UNDERGROUND SERVICES ARE TO BE RE-SET AS REQUIRED TO SUIT REVISED PAVING LEVELS. CABINETS TO BE RETAINED AND RESET AS REQUIRED. SERVICES AT THE WIDENED SITE ACCESS ARE TO BE LOWERED AS REQUIRED. ALL WORKS TO SERVICES TO BE UNDERTAKEN IN ACCORDANCE WITH STATUTORY UNDERTAKER REQUIREMENTS.
  - STOPPING UP OF EXISTING HIGHWAY SUBJECT TO STATUTORY PROCESS.

**IMPORTANT CDM / H&S NOTE**

THE DESIGNERS WOULD DRAW THE READERS ATTENTION TO KEY RESIDUAL CONSTRUCTION HEALTH AND SAFETY HAZARDS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGNS SHOWN ON THE DRAWINGS BY THE DESIGN PROCESS. THESE HAZARDS ARE IDENTIFIED BELOW & ON THE DRAWING:

- EXISTING UNDERGROUND SERVICES (KNOWN AND UNKNOWN), INCLUDING HV ELECTRIC AND SOME AT SHALLOW DEPTHS

ANY CONSTRUCTION PERSONNEL INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE SIGHT OF:

- THE FULL DESIGNERS AND CONTRACTORS HAZARD AND RISK ASSESSMENTS AND RISK REGISTERS.
- THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN.
- THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

**FOR APPROVAL**

P6	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	MBd	SJB	07.09.15
P5	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	MBd	SJB	14.08.15
P4	UPDATED, DESIGN DEVELOPMENT	ICG	MBd	SJB	11.05.15
P3	SHAMBLES ST FRONTAGE UPDATED	MBd	SJB	SJB	10.04.15
P2	REVISED FOLLOWING T&T AND BMBC COMMENTS	MBd	SJB	SJB	30.03.15
P1	FIRST ISSUE	ICG	MBd	SJB	23.02.15
REV	DESCRIPTION	BY	CHK	APP	DATE

**Barnsley College**  
Together We Achieve

ARNDALE COURT  
HEADINGLEY  
LEEDS  
LS6 2UJ

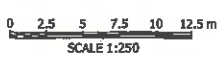
TEL: +44 (0)113 278 7111  
FAX: +44 (0)113 278 3487  
e-mail: leeds@wyg.com

Project:  
**BARNSELY COLLEGE  
6th FORM CENTRE**

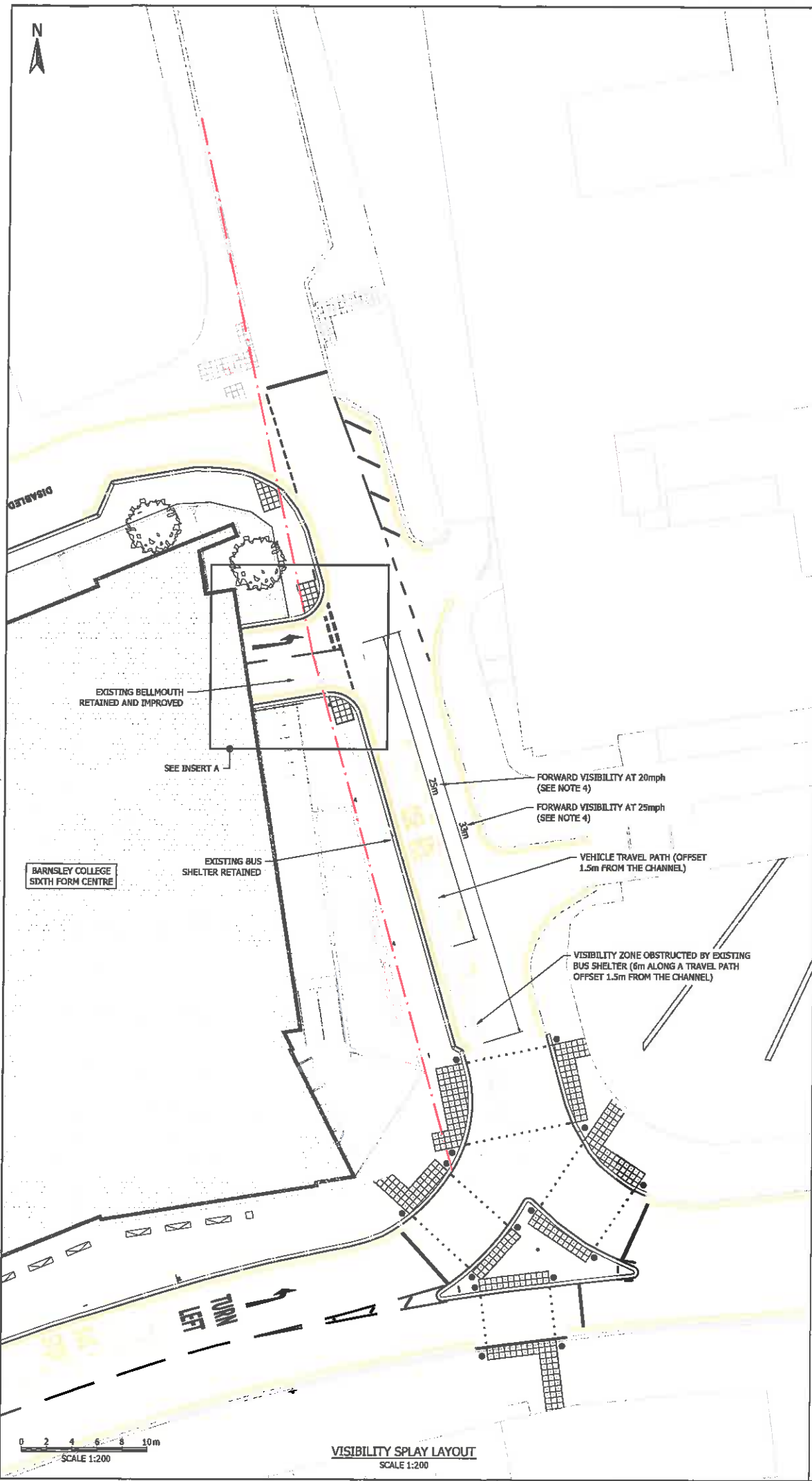
Drawing Title:  
**SECTION 278 HIGHWAY WORKS  
GENERAL ARRANGEMENT**

Scale	A1	Drawn	ICG	Date	23.02.15	Checked	MBd	Date	23.02.15	Approved	SJB	Date	23.02.15
Project No.	A029037-12	Office	21	Type	C	Drawing No.	H.01.01	Revision					
													P6

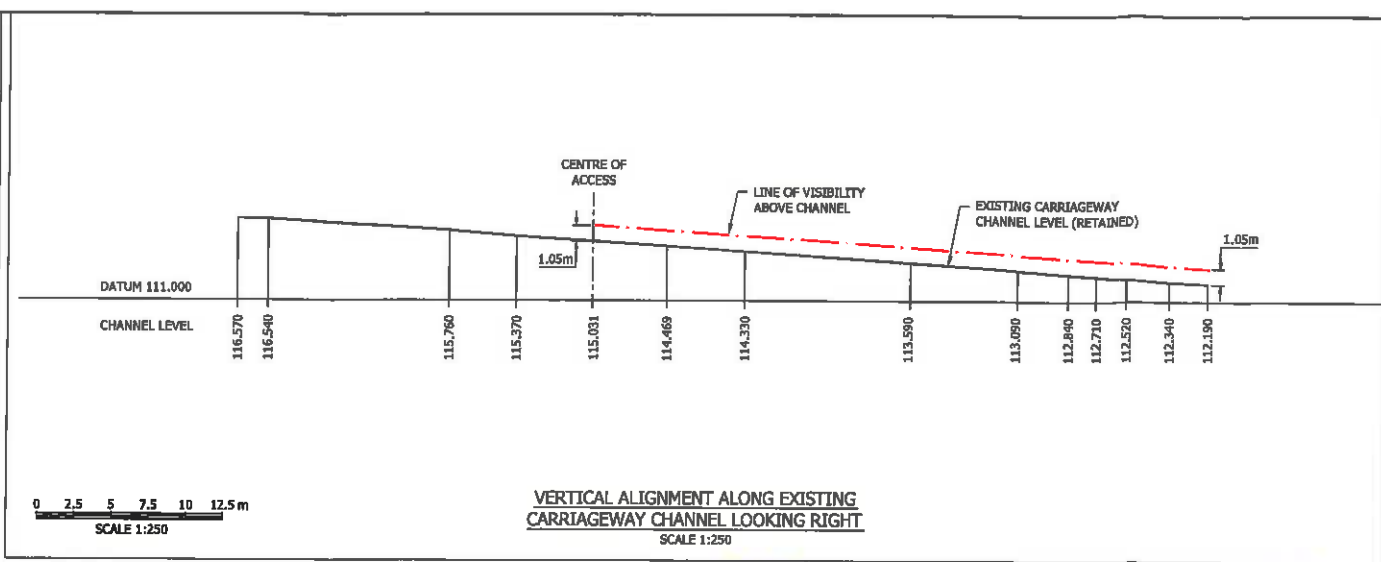
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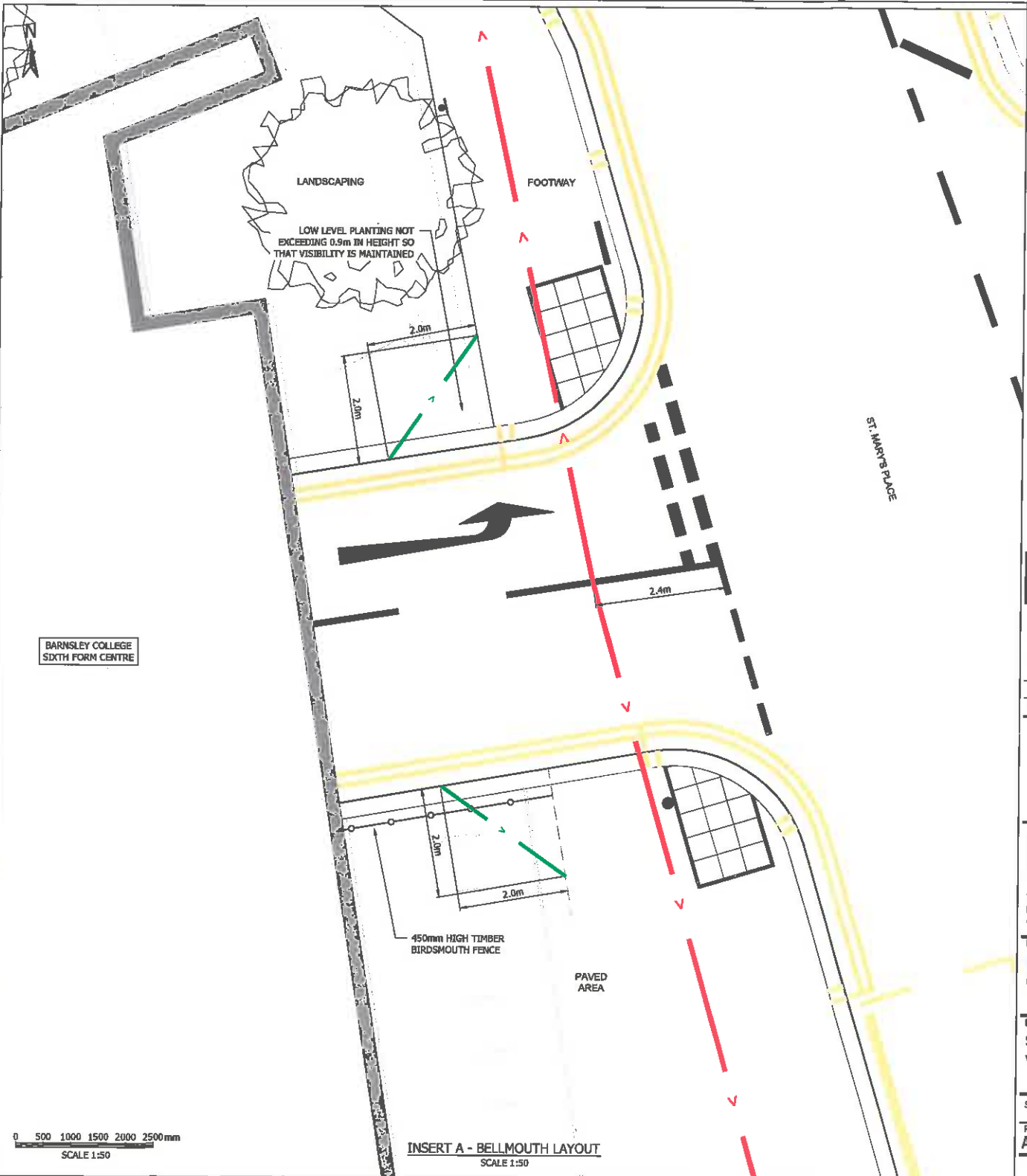
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**VISIBILITY SPLAY LAYOUT**  
SCALE 1:200



**VERTICAL ALIGNMENT ALONG EXISTING CARRIAGEWAY CHANNEL LOOKING RIGHT**  
SCALE 1:250



**INSERT A - BELLMOUTH LAYOUT**  
SCALE 1:50

- DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS**
- NOTES**
- EXISTING LAYOUT TAKEN FROM SURVEY INFORMATION FROM HET GEO ENVIRONMENTAL ON DRAWING 12198-139 DATED 12.12.13, RECEIVED ON 22.05.14.
  - PROPOSED SIXTH FORM CENTRE BUILDING AND EXTERNAL WORKS LAYOUT TAKEN FROM DALLY HENDERSON DRAWING 471-001S DATED 11.05.15.
  - VISIBILITY SPLAY REQUIREMENTS TAKEN FROM DEVELOPMENT PLANNING DECISION NOTICE, REFERENCE 2013/1390 DATED 19 MARCH 2014, CONDITIONS 4 AND 8.
  - FORWARD VISIBILITY DISTANCE TAKEN FROM 'MANUAL FOR STREETS', PUBLISHED FOR THE DEPARTMENT FOR TRANSPORT, TABLE 7.1 AND ADJUSTED FOR BONNET LENGTH, MEASURED ALONG THE VEHICLE TRAVEL PATH OFFSET 1.5m FROM THE CHANNEL.

- KEY**
- 2.4m x 43m VISIBILITY SIGHT LINES (CONDITION 8)
  - 2m x 2m PEDESTRIAN INTERVISIBILITY SPLAYS (CONDITION 4)

**PRELIMINARY ISSUE**

REV	DESCRIPTION	BY	CHK	APP	DATE
P1	FIRST ISSUE	ICG	Mbd	SJB	20.05.15



ARNDALE COURT  
 HEADINGLEY  
 LEEDS  
 LS6 2UJ  
 TEL: +44 (0)113 278 7111  
 FAX: +44 (0)113 278 3487  
 e-mail: leeds@wyg.com



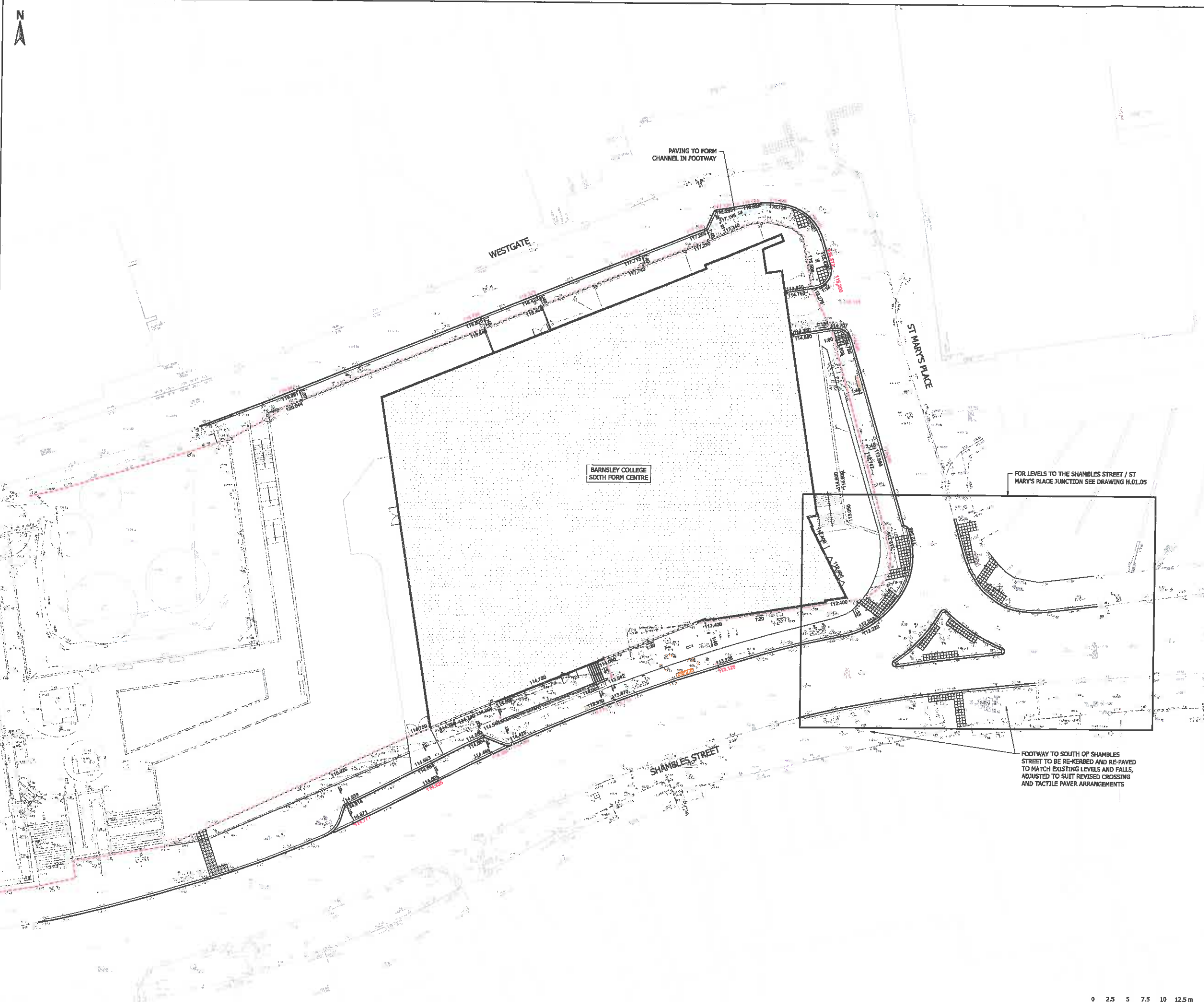
Project:  
**BARNSELY COLLEGE**  
**6th FORM CENTRE**

Drawing Title:  
**SERVICE YARD ACCESS**  
**VISIBILITY SPLAYS**

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date
AS SHOWN	ICG	20.05.15	20.05.15	SJB	20.05.15		20.05.15
Project No.	Office	Type	Drawing No.	Revision			
A029037-12	21	C	H.01.03	P1			



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DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**NOTES**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
2. THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.
3. DATUM : OS LEVEL DATUM, USING THE OS GPS NETWORK AND APPLYING OSGM02 NATIONAL GEOID MODEL TO OBTAIN LOCAL AREA CORRECTIONS.
4. FOR KERBING DETAILS AND UPSTANDS REFER TO KERBING DRAWING H.11.01.

**KEY**

- +115.115 EXISTING LEVELS
- +115.278 PROPOSED LEVELS
- 1/40 PROPOSED CROSSFALL

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- THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

**FOR APPROVAL**

P3	UPDATED FOLLOWING BMBC COMMENTS	ICG	Mbd	SJB	07.09.15
P2	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	Mbd	SJB	14.08.15
P1	FIRST ISSUE	ICG	Mbd	SJB	11.05.15
REV	DESCRIPTION	BY	CHK	APP	DATE



ARNDALE COURT  
HEADINGLEY  
LEEDS  
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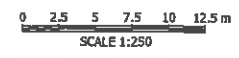
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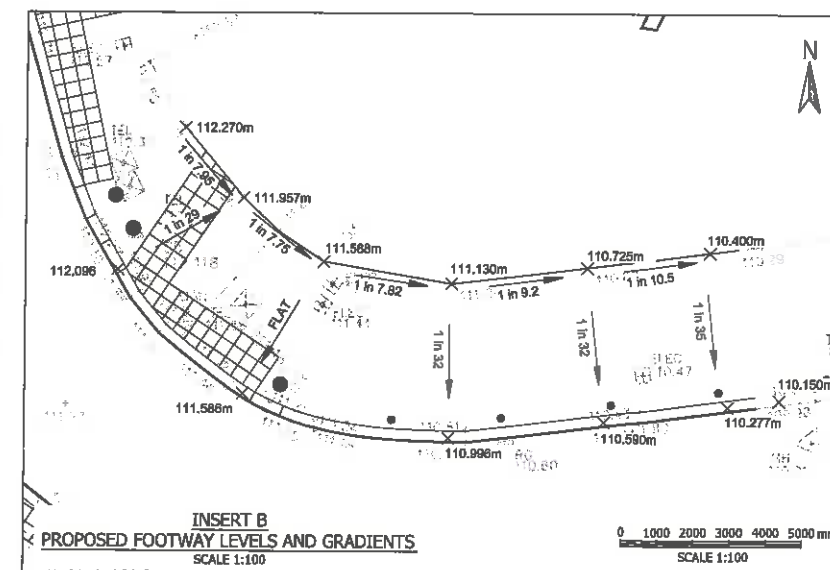
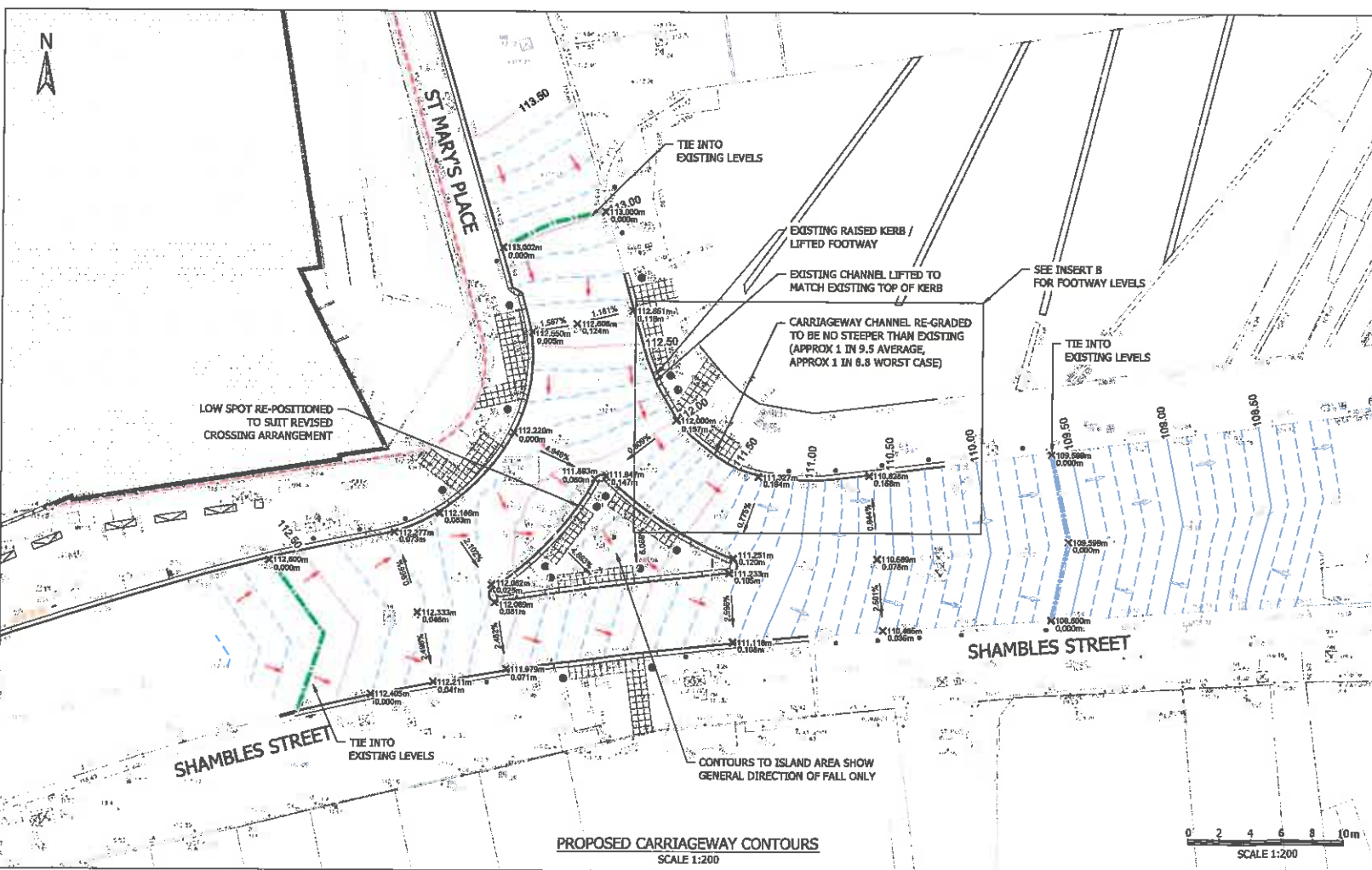
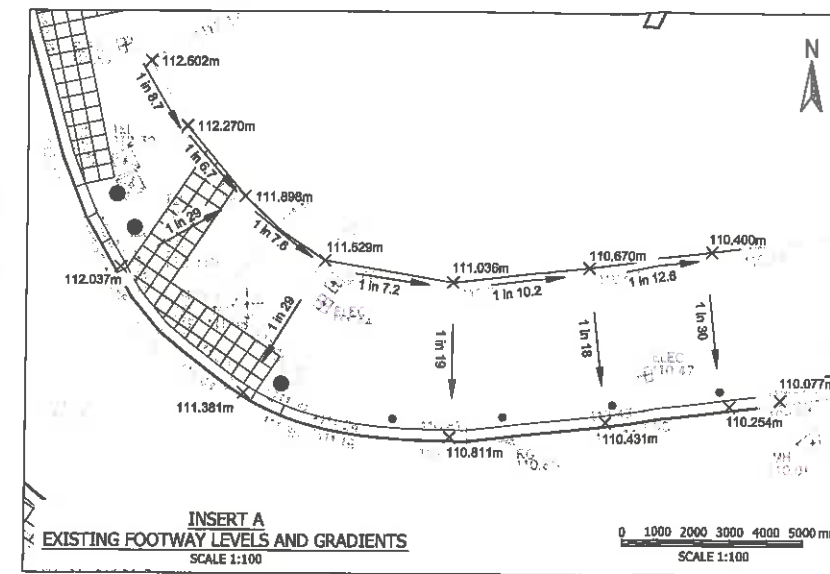
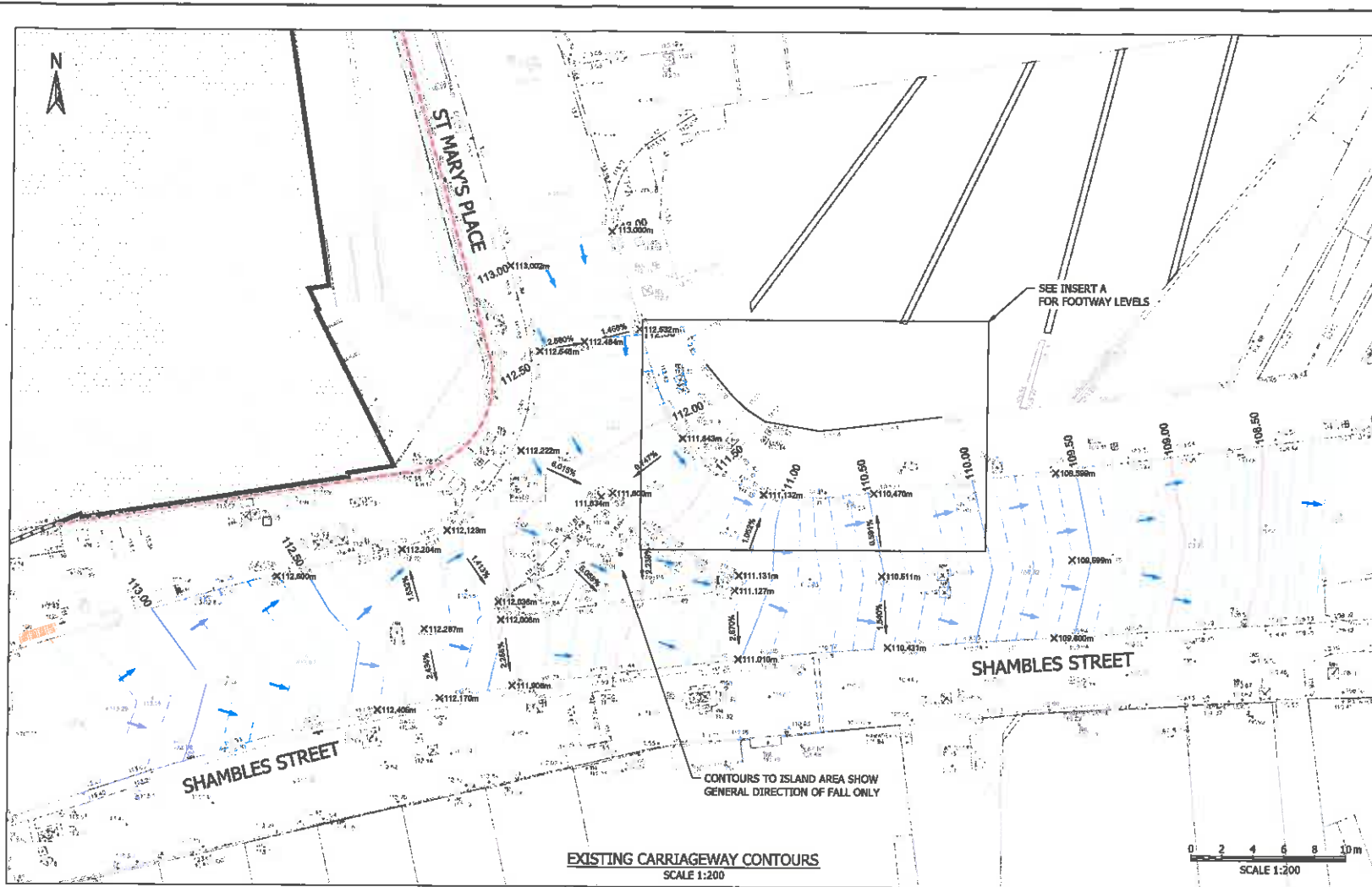
Project:  
**BARNSELY COLLEGE  
6th FORM CENTRE**

Drawing Title:  
**SECTION 278 HIGHWAY WORKS  
LEVELS**

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
1:250	ICG	11.05.15	Mbd	11.05.15	SJB	11.05.15
Project No.	Office	Type	Drawing No.	Revision		
A029037-12	21	C	H.01.04	P3		



FILENAME: H:\PROJECTS\A029037-12\A029037-12\CONSTRUCTION\HIGHWAYS\A029037-12\SECTION CARRIAGEWAY LEVELS - P2.DWG | PLOTTED BY: MATTHEW BRANFIELD | PLOTTED DATE: 07 September 2015 18:01:25



DO NOT SCALE. CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**NOTES**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
2. THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.
3. DATUM: OS LEVEL DATUM, USING THE OS GPS NETWORK AND APPLYING OSGM02 NATIONAL GEOD MODEL TO OBTAIN LOCAL AREA CORRECTIONS.
4. FOR LONG SECTIONS TO CARRIAGEWAY CHANNELS SEE DRAWINGS H.10.01 AND H.10.02. FOR WIDER WORKS LEVELS SEE DRAWING H.01.04. FOR KERBING DETAILS AND UPSTANDS REFER TO KERBING DRAWING H.11.01.

**KEY**

- MAJOR CONTOURS AT 0.5m INTERVALS
- MINOR CONTOURS AT 0.1m INTERVALS
- FLOW ARROW
- X 110.500m LEVELS
- X 0.120m LEVEL DIFFERENCE
- 1.532% CROSS FALL

**IMPORTANT CDM / H&S NOTE**

THE DESIGNERS WOULD DRAW THE READERS ATTENTION TO KEY RESIDUAL CONSTRUCTION HEALTH AND SAFETY HAZARDS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGNS SHOWN ON THE DRAWINGS BY THE DESIGN PROCESS. THESE HAZARDS ARE IDENTIFIED BELOW & ON THE DRAWING:

- EXISTING UNDERGROUND SERVICES (KNOWN AND UNKNOWN), INCLUDING HV ELECTRIC AND SOME AT SHALLOW DEPTHS
- ANY CONSTRUCTION PERSONNEL INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE SIGHT OF:
  - THE FULL DESIGNERS AND CONTRACTORS HAZARD AND RISK ASSESSMENTS AND RISK REGISTERS.
  - THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN.
  - THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

**FOR APPROVAL**

REV	DESCRIPTION	BY	CHK	APP	DATE
P2	TOP OF KERB LEVEL CORRECTED	ICG	MBJ	SJB	04/09/15
P1	FIRST ISSUE	ICG	MBJ	SJB	14.08.15



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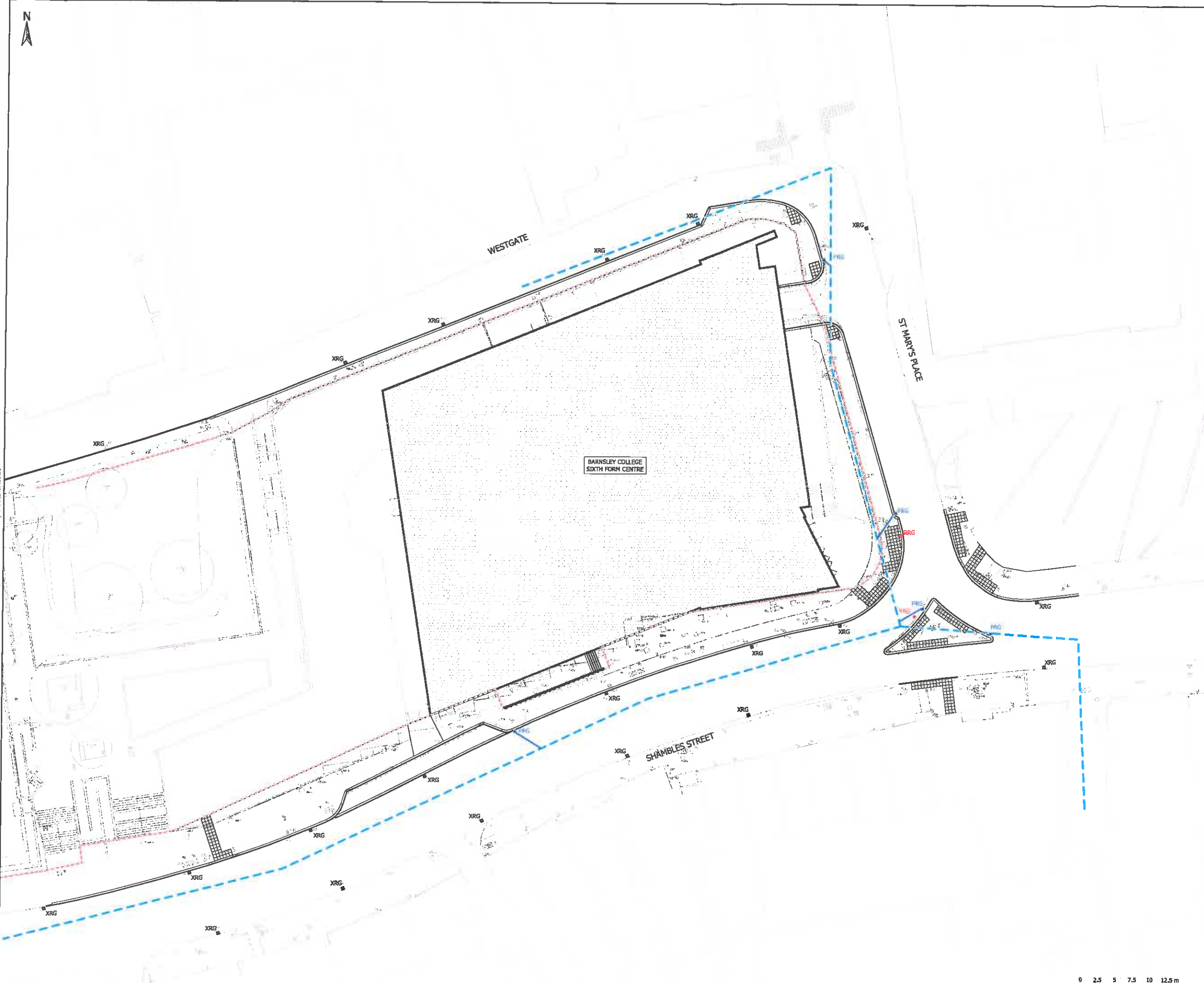
Project:  
**BARNSELY COLLEGE**  
6th FORM CENTRE

Drawing Title:  
**SECTION 278 HIGHWAY WORKS  
SHAMBLES STREET AND ST MARY'S PLACE  
JUNCTION CARRIAGEWAY LEVELS**

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date		
AS SHOWN	ICG	14.08.15	MBJ	14.08.15	SJB	14.08.15			
Project No.	A029037-12	Office	21	Type	C	Drawing No.	H.01.05	Revision	P2



FILENAME: H:\PROJECTS\A029037-12\ACAD\DWGS\HIGHWAY\H.05.01\_S278\_DRAINAGE.DWG | PLOTTED BY: MATTHEW.BRAYFIELD | PLOTTED DATE: 14 April 2015 17:53:59



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**NOTES**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
2. THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.
3. EXISTING GULLIES TO BE RETAINED WHICH ARE WITHIN AN AREA OF CARRIAGEWAY TO BE RESURFACED OR WHICH ABUT A REPLACED KERB ARE TO HAVE THEIR GRATES RE-SET AS REQUIRED TO SUIT.
4. ROUTES OF CONNECTIONS FROM EXISTING GULLIES TO YORKSHIRE WATER SEWER UNKNOWN, EXISTING CONNECTIONS TO BE PROVIDED BY THE CONTRACTOR AND EITHER RE-USED FOR NEARBY REPLACEMENT GULLY OR GROUTED UP.
5. GRATINGS TO NEW GULLIES, AND REPLACEMENT GRATES TO EXISTING GULLIES IF REQUIRED, ARE TO BE D400 LOADING CLASS IN ACCORDANCE WITH BS EN 124-1.

**KEY**

- XRG ◊ EXISTING GULLY TO BE RETAINED  
SEE NOTES 3 AND 4
- RRG ◊ EXISTING GULLY TO BE REMOVED  
SEE NOTE 4
- - - - - APPROXIMATE ROUTE OF EXISTING YORKSHIRE WATER SURFACE DRAIN, TAKEN FROM YW RECORD DRAWING RECEIVED 1 MAY 2014, DEPTH UNKNOWN
- — — — PROPOSED ROAD GULLY, 150mm DIA OUTLET PIPE TO BE CONNECTED INTO EXISTING YORKSHIRE WATER SEWER (SEE ALSO NOTE 4)

**PRELIMINARY ISSUE**

P3	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	MBd	SJB	14.08.15
P2	UPDATED, DESIGN DEVELOPMENT	ICG	MBd	SJB	11.05.15
P1	FIRST ISSUE	ICG	MBd		24.04.15
REV	DESCRIPTION	BY	CHK	APP	DATE



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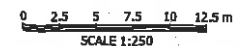


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Project:  
**BARNSELY COLLEGE  
6th FORM CENTRE**

Drawing Title:  
**SECTION 278 HIGHWAY WORKS  
HIGHWAY DRAINAGE**

Scale @ A1 1:250	Drawn ICG	Date 24.04.15	Checked MBd	Date 24.04.15	Approved Date
Project No. A029037-12	Office 21	Type C	Drawing No. H.05.01	Revision P3	



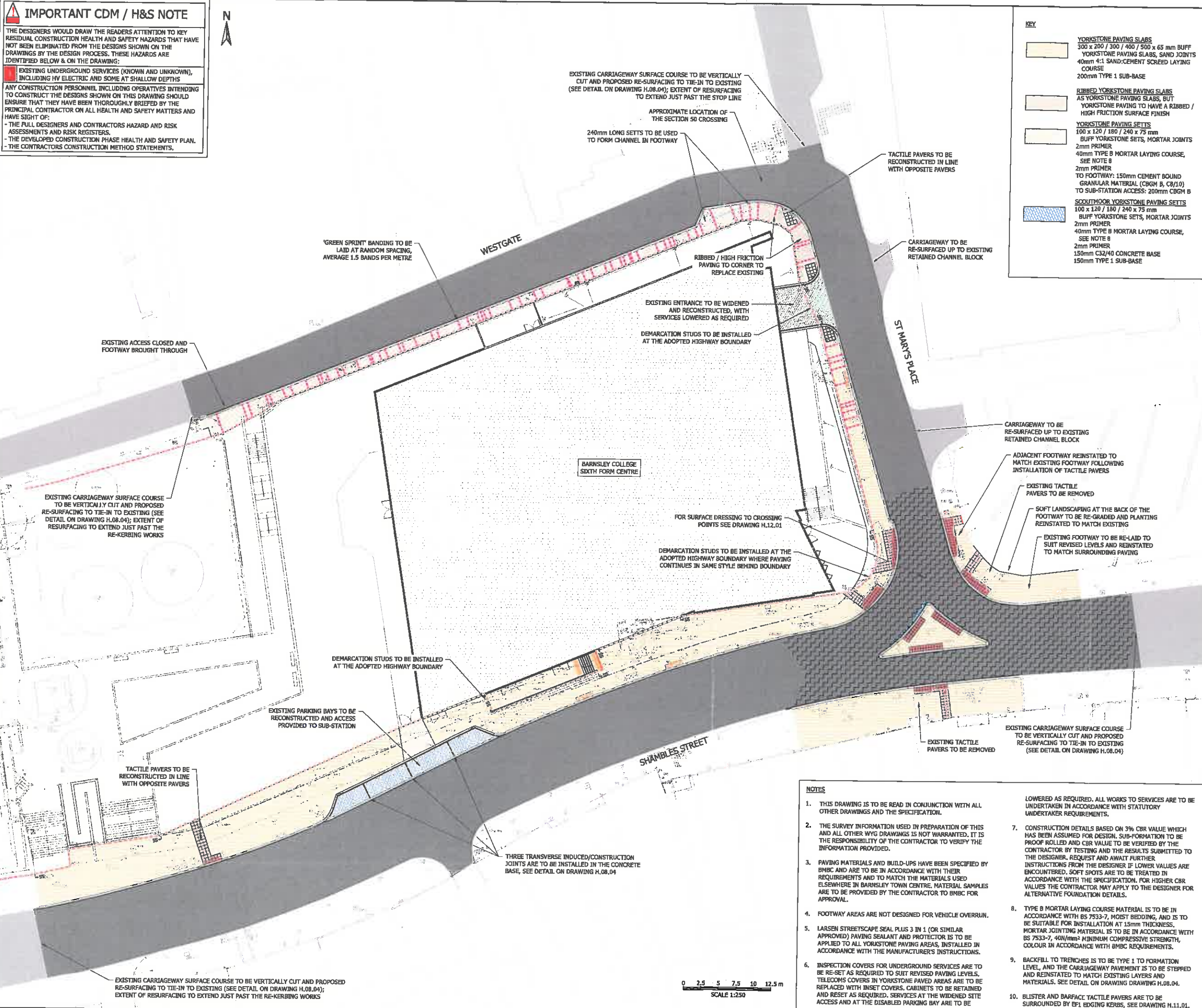
**IMPORTANT CDM / H&S NOTE**

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  - THE FULL DESIGNERS AND CONTRACTORS HAZARD AND RISK ASSESSMENTS AND RISK REGISTERS.
  - THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN.
  - THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.



FILENAME: H:\PROJECTS\AD29037-12\ACAD\DWG\HIGHWAYS\H.07.01\_S278 PAVEMENTS.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 08 September 2015 10:26:16



- KEY**
- YORKSTONE PAVING SLABS**  
300 x 200 / 300 / 400 / 500 x 65 mm BUFF YORKSTONE PAVING SLABS, SAND JOINTS  
40mm 4:1 SAND:CEMENT SCREED LAYING COURSE  
200mm TYPE 1 SUB-BASE
  - RIBBED YORKSTONE PAVING SLABS**  
AS YORKSTONE PAVING SLABS, BUT YORKSTONE PAVING TO HAVE A RIBBED / HIGH FRICTION SURFACE FINISH
  - YORKSTONE PAVING SETTS**  
100 x 120 / 180 / 240 x 75 mm BUFF YORKSTONE SETTS, MORTAR JOINTS  
2mm PRIMER  
40mm TYPE B MORTAR LAYING COURSE, SEE NOTE 8  
2mm PRIMER  
TO FOOTWAY: 150mm CEMENT BOUND GRANULAR MATERIAL (CBGM B, C8/10) TO SUB-STATION ACCESS: 200mm CBGM B
  - SCOUTHOOR YORKSTONE PAVING SETTS**  
100 x 120 / 180 / 240 x 75 mm BUFF YORKSTONE SETTS, MORTAR JOINTS  
2mm PRIMER  
40mm TYPE B MORTAR LAYING COURSE, SEE NOTE 8  
2mm PRIMER  
150mm C32/40 CONCRETE BASE  
150mm TYPE 1 SUB-BASE

- DO NOT SCALE; CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS
- RESURFACED CARRIAGEWAY**  
EXISTING SURFACE COURSE PLANED OUT  
40mm SMA 14 SURF THIN SURFACE COURSE SYSTEM, PSV = 68, MAX AAV = 12
  - OVERLAID CARRIAGEWAY**  
SEE DETAIL ON DRAWING H.08.04
  - CARRIAGEWAY WIDENING**  
40mm SMA 14 SURF THIN SURFACE COURSE SYSTEM, PSV = 68, MAX AAV = 12  
60mm AC20 DENSE BIN 40/60  
520mm ST4 CONCRETE BASE
  - ENTRANCE RECONSTRUCTION**  
40mm SMA 14 SURF THIN SURFACE COURSE SYSTEM, PSV = 68, MAX AAV = 12  
60mm AC20 DENSE BIN 40/60  
100mm AC32 DENSE BASE 40/60  
420mm TYPE 1 SUB-BASE
  - UNCONTROLLED CROSSINGS**  
450 x 450 x 70 mm PCC BLISTER TACTILE PAVING FLAGS, CHARCOAL  
40mm 4:1 SAND:CEMENT SCREED LAYING COURSE  
200mm TYPE 1 SUB-BASE
  - CONTROLLED CROSSINGS**  
400 x 400 x 65 mm PCC BLISTER TACTILE PAVING FLAGS, RED LAYING COURSE AND SUB-BASE AS UNCONTROLLED CROSSINGS
  - BUS BOARDER**  
600 x 600 x 50mm PCC BARFACE TACTILE PAVING FLAGS, NATURAL  
40mm 4:1 SAND:CEMENT SCREED LAYING COURSE  
200mm TYPE 1 SUB-BASE
  - GREEN SPRINT BANDING**  
100 x 120 / 180 / 240 x 100 mm WHITE GRANITE SETTS (GRA900)  
IN YORKSTONE SLAB PAVING:  
150mm ST4 CONCRETE  
IN YORKSTONE SETT PAVING:  
2mm PRIMER  
15mm MIN MORTAR COURSE, SEE NOTE 8  
2mm PRIMER  
BITUMINOUS BASE COURSE AND SUB-BASE AS ABOVE
  - ADOPTED HIGHWAY BOUNDARY FOLLOWING STOPPING UP / DEDICATION**
  - SS** 25mm DIA STAINLESS STEEL LOW DOMED STUDS, INSTALLED AT 300mm CENTRES

**FOR APPROVAL**

P4	UPDATED TO REFLECT SIGNALS PROPOSALS AND FOLLOWING BMBC COMMENTS	Mbd	SJB	SJB	07.09.15
P3	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	Mbd	SJB	14.08.15
P2	UPDATED, DESIGN DEVELOPMENT	ICG	Mbd	SJB	11.05.15
P1	FIRST ISSUE	ICG	Mbd		24.04.15
REV	DESCRIPTION	BY	CHK	APP	DATE



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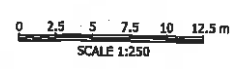
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**BARNSELY COLLEGE  
6th FORM CENTRE**



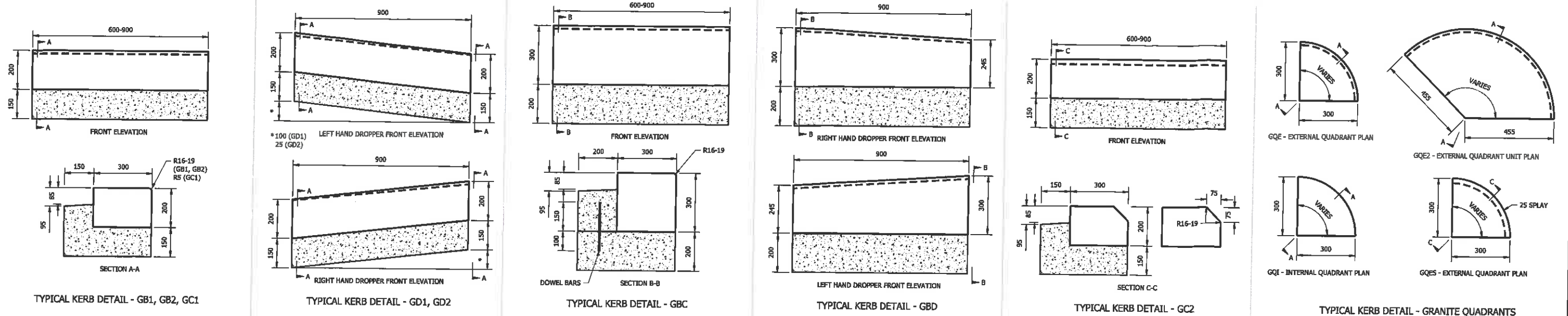
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**SECTION 278 HIGHWAY WORKS  
PAVEMENTS**

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date
Project No.	1:250	ICG	24.04.15	Mbd	24.04.15		
		Office	Type	Drawing No.	Revision		
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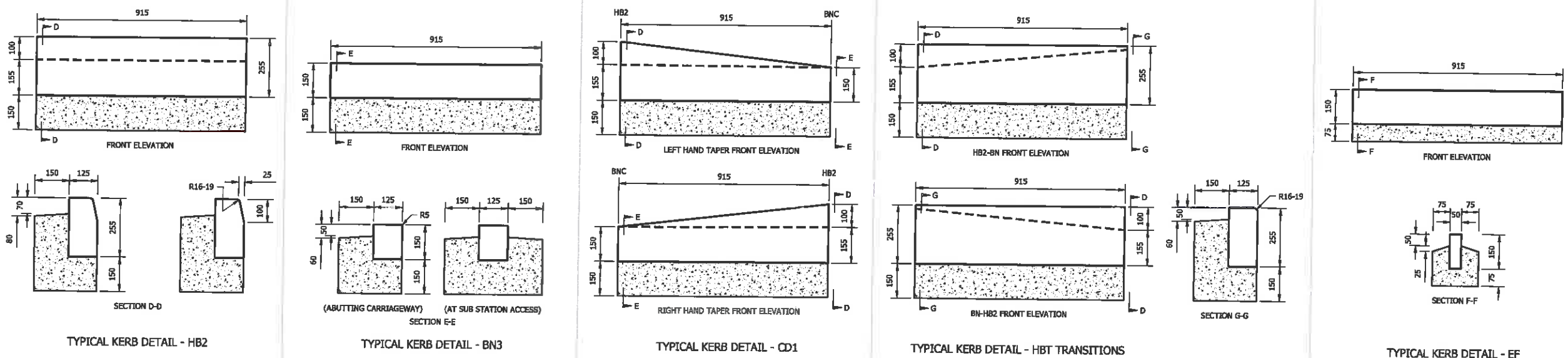
- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
  - THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.
  - PAVING MATERIALS AND BUILD-UPS HAVE BEEN SPECIFIED BY BMBC AND ARE TO BE IN ACCORDANCE WITH THEIR REQUIREMENTS AND TO MATCH THE MATERIALS USED ELSEWHERE IN BARNSELY TOWN CENTRE. MATERIAL SAMPLES ARE TO BE PROVIDED BY THE CONTRACTOR TO BMBC FOR APPROVAL.
  - FOOTWAY AREAS ARE NOT DESIGNED FOR VEHICLE OVERRUN.
  - LARSEN STREETSCAPE SEAL PLUS 3 IN 1 (OR SIMILAR APPROVED) PAVING SEALANT AND PROTECTOR IS TO BE APPLIED TO ALL YORKSTONE PAVING AREAS, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - INSPECTION COVERS FOR UNDERGROUND SERVICES ARE TO BE RE-SET AS REQUIRED TO SUIT REVISED PAVING LEVELS. TELECOMS COVERS IN YORKSTONE PAVED AREAS ARE TO BE REPLACED WITH INSET COVERS. CABINETS TO BE RETAINED AND RESET AS REQUIRED. SERVICES AT THE WIDENED SITE ACCESS AND AT THE DISABLED PARKING BAY ARE TO BE LOWERED AS REQUIRED. ALL WORKS TO SERVICES ARE TO BE UNDERTAKEN IN ACCORDANCE WITH STATUTORY UNDERTAKER REQUIREMENTS.
  - CONSTRUCTION DETAILS BASED ON 3% CBR VALUE WHICH HAS BEEN ASSUMED FOR DESIGN. SUB-FORMATION TO BE PROOF ROLLED AND CBR VALUE TO BE VERIFIED BY THE CONTRACTOR BY TESTING AND THE RESULTS SUBMITTED TO THE DESIGNER. REQUEST AND AWAIT FURTHER INSTRUCTIONS FROM THE DESIGNER IF LOWER VALUES ARE ENCOUNTERED. SOFT SPOTS ARE TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION. FOR HIGHER CBR VALUES THE CONTRACTOR MAY APPLY TO THE DESIGNER FOR ALTERNATIVE FOUNDATION DETAILS.
  - TYPE B MORTAR LAYING COURSE MATERIAL IS TO BE IN ACCORDANCE WITH BS 7533-7, MOIST BEDDING, AND IS TO BE SUITABLE FOR INSTALLATION AT 15mm THICKNESS. MORTAR JOINTING MATERIAL IS TO BE IN ACCORDANCE WITH BS 7533-7, 40N/mm<sup>2</sup> MINIMUM COMPRESSIVE STRENGTH, COLOUR IN ACCORDANCE WITH BMBC REQUIREMENTS.
  - BACKFILL TO TRENCHES IS TO BE TYPE 1 TO FORMATION LEVEL, AND THE CARRIAGEWAY PAVEMENT IS TO BE STEPPED AND REINSTATED TO MATCH EXISTING LAYERS AND MATERIALS. SEE DETAIL ON DRAWING H.08.04.
  - BLISTER AND BARFACE TACTILE PAVERS ARE TO BE SURROUNDED BY EFL EDGING KERBS, SEE DRAWING H.11.01.



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS



TYPICAL KERB DETAILS - GRANITE KERBS



TYPICAL KERB DETAILS - PRECAST CONCRETE KERBS

- GENERAL NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
- KERBING NOTES**
- KERBS SHALL BE LAID IN ACCORDANCE WITH BS7533-6 AND ALL AREAS SHALL BE CONSIDERED TO BE SUBJECT TO HEAVY LOADING.
  - KERBING BED AND HAUNCH IS TO BE GRADE ST4 CONCRETE.
  - THE DEPTH TO TOP OF HAUNCHING SHALL BE THE DEPTH OF THE ADJACENT SURFACE COURSE +10mm TO ALLOW FOR A MORTAR BEDDING. FOR SOFT LANDSCAPED AREAS, -50mm FROM TOP OF KERB.
  - SURFACE OF THE HAUNCHING SHALL BE STRUCK SUCH THAT IT DOES NOT ALLOW WATER TO STAND.
  - DOWEL BARS SHALL BE USED FOR BUS STOP KERBS. DOWEL BARS ARE TO BE 10mm DIAMETER MILD STEEL TO BS4449, 250mm LONG WITH 100mm SET IN RACE AND REMAINING 150mm IN HAUNCH, AND SPACED AT 450mm CENTRES SUCH THAT NO DOWEL IS LOCATED CLOSER THAN 150mm TO A KERB JOINT.
  - WHERE BITUMINOUS MATERIAL ABUTS A KERB, A COAT OF 200 PEN. BITUMEN SHALL BE APPLIED TO THE KERB TO FORM A SEAL.

**PRELIMINARY ISSUE**

REV	DESCRIPTION	BY	CHK	APP	DATE
P3	UPDATED, DESIGN DEVELOPMENT	MBd	SJB	SJB	14.08.15
P2	UPDATED FOLLOWING BMBC COMMENTS	MBd	PW	SJB	05.06.15
P1	FIRST ISSUE	ICG	MBd	SJB	11.05.15



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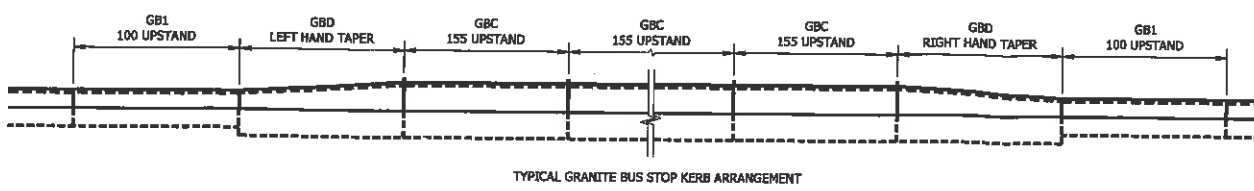
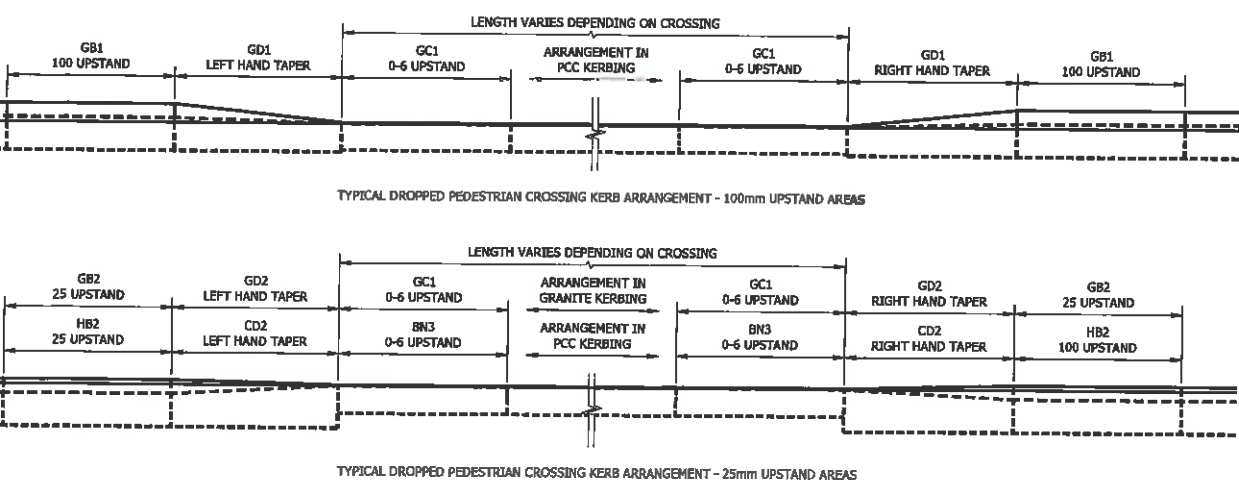


Project:  
BARNSELY COLLEGE  
6th FORM CENTRE

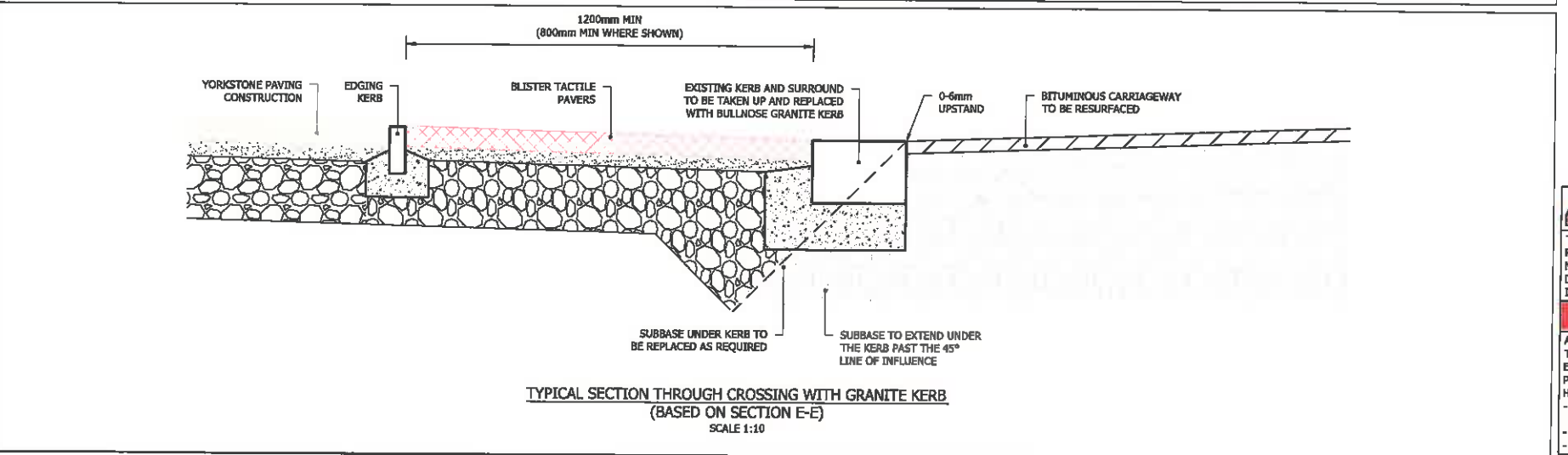
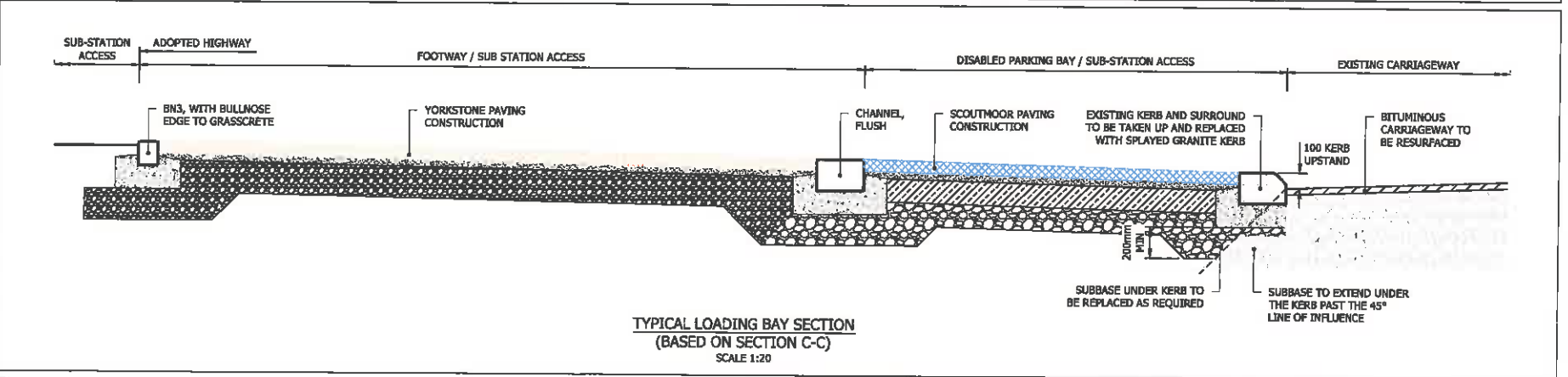
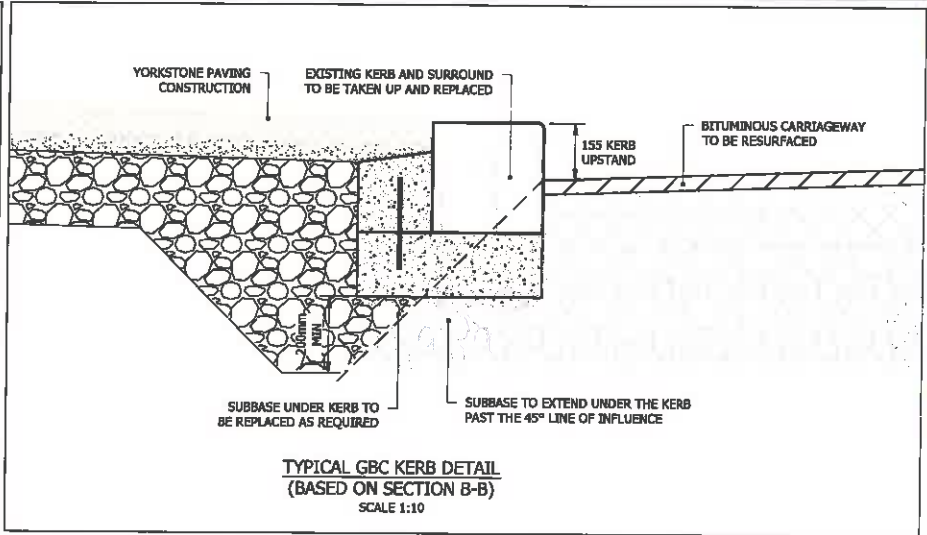
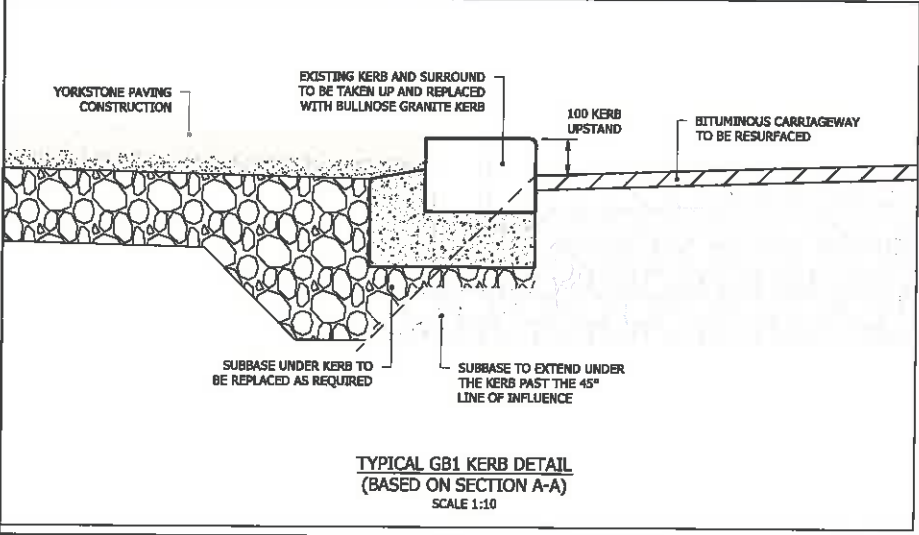
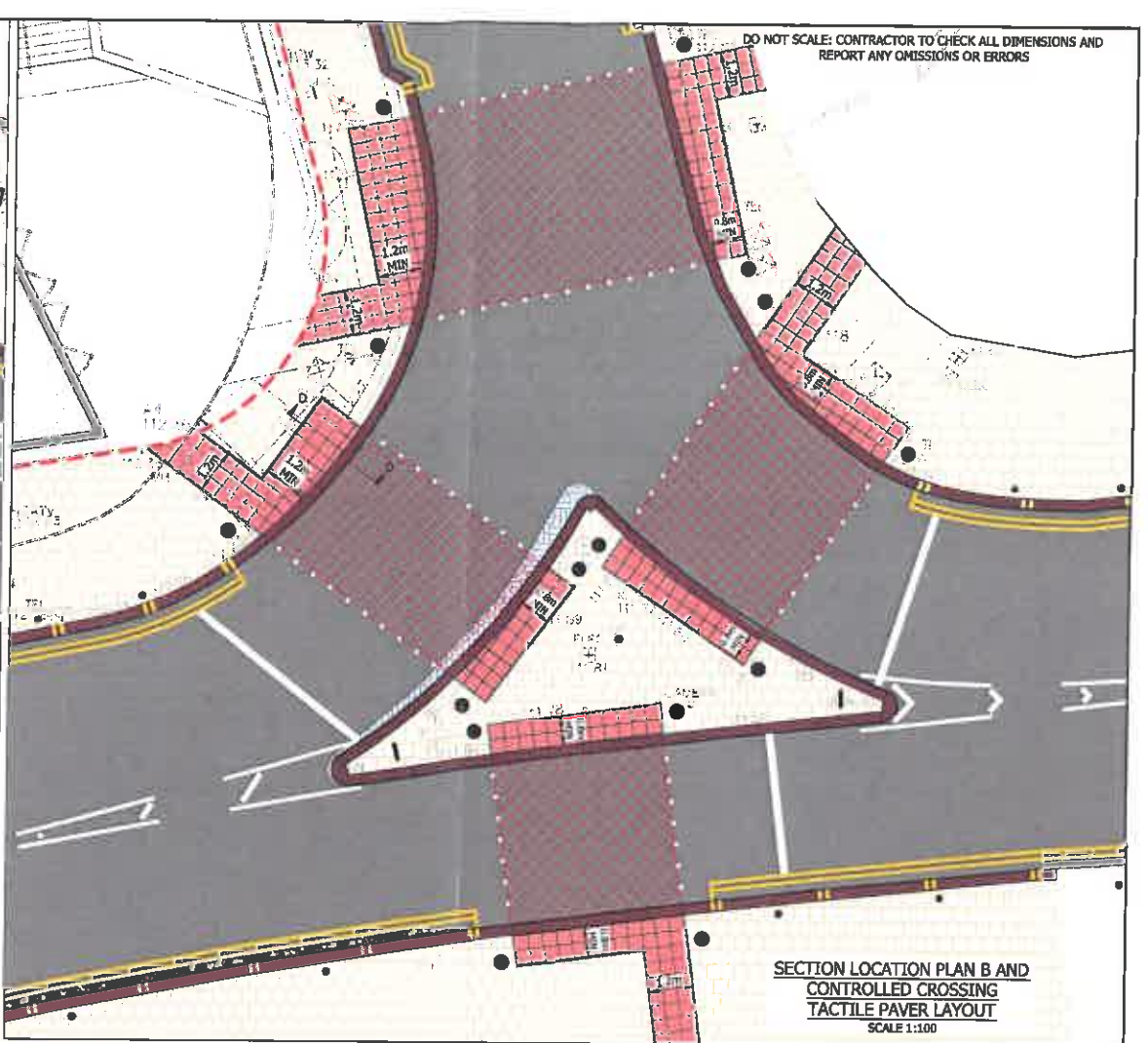
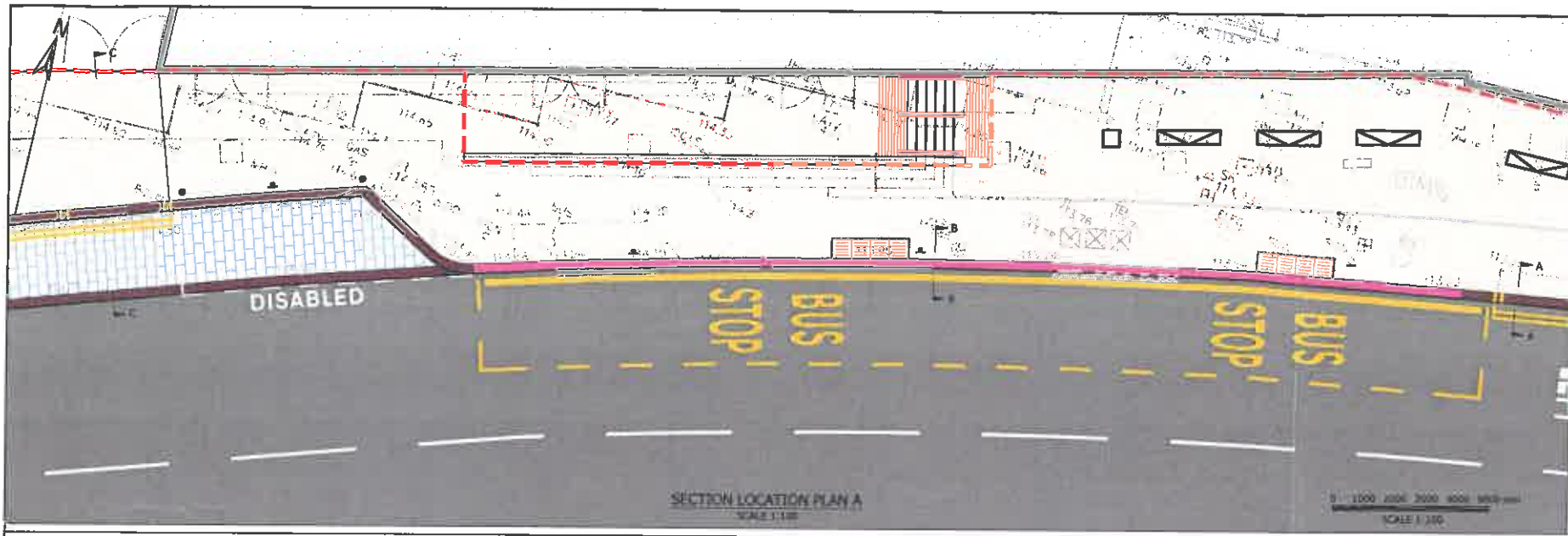
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SECTION 278 HIGHWAY WORKS  
TYPICAL DETAILS  
KERBING STANDARD DETAILS

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NTS	ICG	MBd	11.05.15	SJB	11.05.15	SJB	11.05.15
Project No.	Office	Type	Drawing No.	Revision			
A029037-12	21	C	H.08.02	P3			

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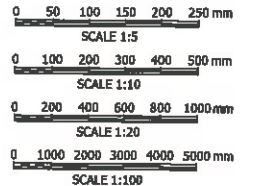


TYPICAL KERB TRANSITION ELEVATIONS



- GENERAL NOTES**
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**FOR APPROVAL**

REV	DESCRIPTION	BY	CHK	APP	DATE
P3	UPDATED FOLLOWING BMBC COMMENTS	MBd	SJB	SJB	07.09.15
P2	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	ICG	MBd	SJB	14.08.15
P1	FIRST ISSUE	ICG	MBd	SJB	11.05.15



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Project:  
**BARNSELY COLLEGE**  
6th FORM CENTRE

Drawing Title:  
**SECTION 278 HIGHWAY WORKS**  
TYPICAL DETAILS  
KERBING

Scale	AS SHOWN	A1	Drawn	Date	Checked	Date	Approved	Date
ICG	MBd	SJB	ICG	MBd	SJB	11.05.15	SJB	11.05.15

Project No.	Office	Type	Drawing No.	Revision
A029037-12	21	C	H.08.03	P3

**IMPORTANT CDM / H&S NOTE**

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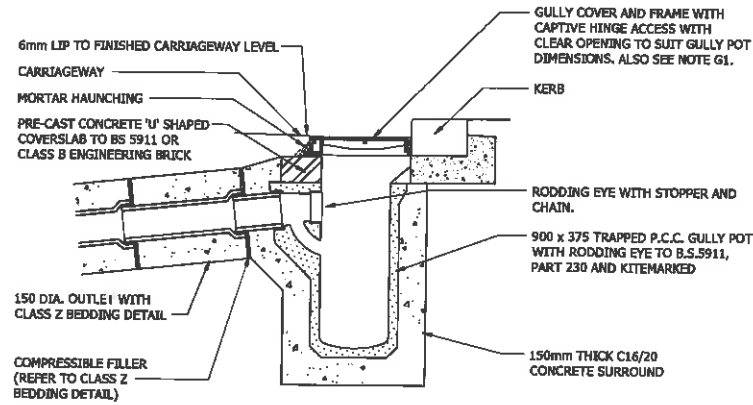
**EXISTING UNDERGROUND SERVICES (KNOWN AND UNKNOWN), INCLUDING HV ELECTRIC AND SOME AT SHALLOW DEPTHS**

ANY CONSTRUCTION PERSONNEL INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE SIGHT OF:

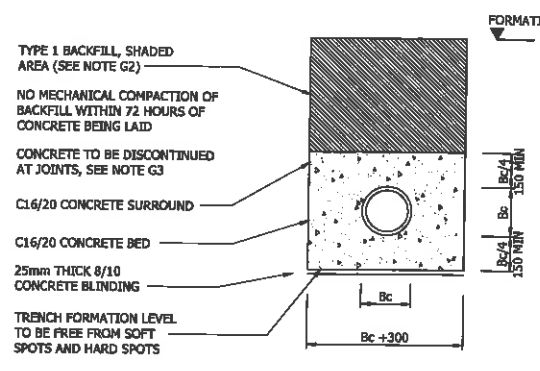
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- THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN.
- THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

FILENAME: R:\PROJECTS\A029037-12\ACAD\DWGS\HIGHWAYS\H.08.03 & 02 & 03 S278 DETAILS.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 07 September 2015 18:32:27

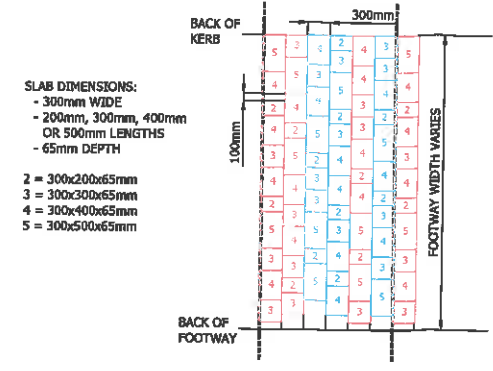
FILENAME: N:\PROJECTS\A029037-12\ACAD\DWGS\HIGHWAYS\H.08.01 & 02 & 03 278 DETAILS.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 07 September 2015 18:34:10



**ADOPTABLE ROAD GULLY DETAIL**  
SCALE NTS



**CLASS Z DETAIL**  
SCALE NTS



**LAYING PATTERN FOR YORKSTONE SLABS**  
SCALE NTS

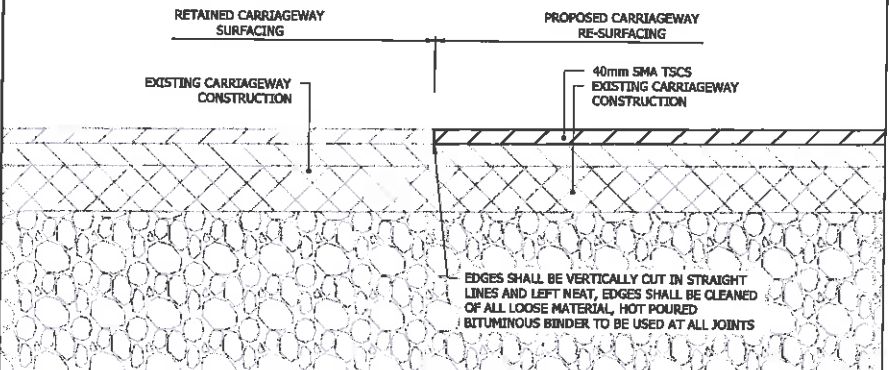
DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**GENERAL NOTES**

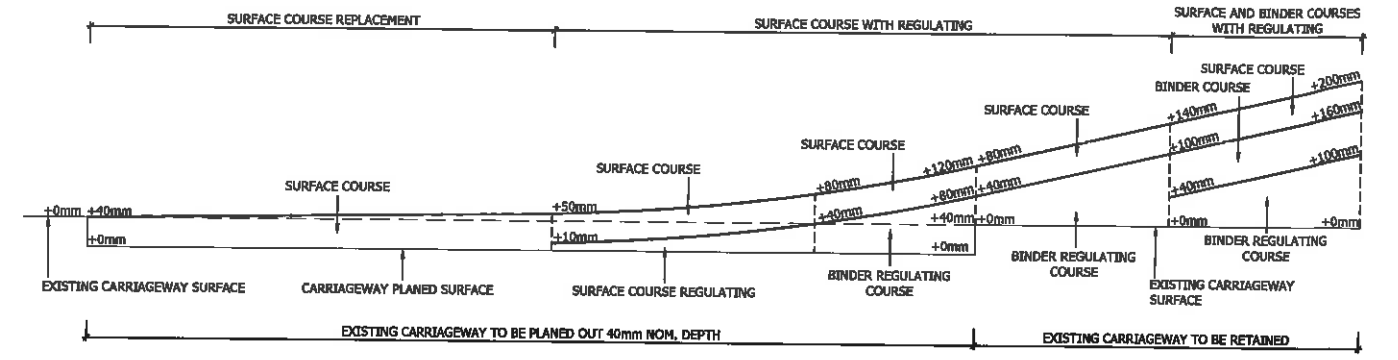
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
- DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

**GULLY NOTES**

- GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED, LOAD CLASS D400.
- BACKFILLING AND REINSTATEMENT TO TRENCHES IN EXISTING PUBLIC HIGHWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE HIGHWAY AUTHORITY, OR, IN THE ABSENCE OF SUCH, IN ACCORDANCE WITH THE REQUIREMENTS OF "THE STREET WORKS REGULATIONS 1992" AND RELEVANT PROVISIONS OF H.A.U.C. "SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS" JUNE 1992, BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991. NO MECHANICAL COMPACTION WITHIN 300mm OF CROWN OF PIPE.
- CLASS Z PROTECTION TO ALL ROAD GULLY CONNECTIONS. THE CONCRETE BED AND SURROUND SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION BY MEANS OF A SHAPED COMPRESSIBLE FILLER (18mm THICK BITUMEN IMPREGNATED INSULATING BOARD TO BS EN 120 AND BS EN 317).

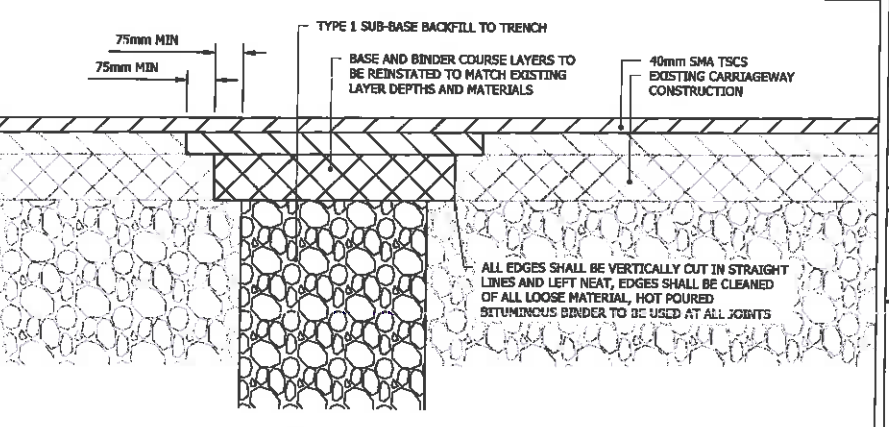


**SURFACE COURSE CARRIAGEWAY TIE-IN DETAIL**  
SCALE NTS

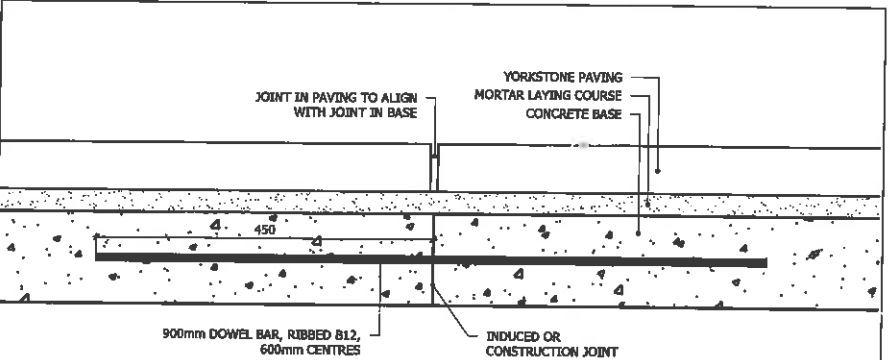


**OVERLAID CARRIAGEWAY / REGULATING DETAIL**  
SCALE NTS

SURFACE COURSE: 40mm SMA TSCS AS DRAWING H.07.01  
 REGULATING 10 TO 40mm: SMA 6 REG 40/60  
 BINDER COURSE: 60mm AC 20 HDM REG 40/60  
 REGULATING 40 TO 70mm: AC 20 HDM REG 40/60



**TYPICAL CARRIAGEWAY TRENCH REINSTATEMENT DETAIL**  
SCALE NTS



**TYPICAL INDUCED OR CONSTRUCTION JOINT DETAIL**  
SCALE 1:5

**IMPORTANT CDM / H&S NOTE**

THE DESIGNERS WOULD DRAW THE READERS ATTENTION TO KEY RESIDUAL CONSTRUCTION HEALTH AND SAFETY HAZARDS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGNS SHOWN ON THE DRAWINGS BY THE DESIGN PROCESS. THESE HAZARDS ARE IDENTIFIED BELOW & ON THE DRAWING:

- EXISTING UNDERGROUND SERVICES (KNOWN AND UNKNOWN), INCLUDING HV ELECTRIC AND SOME AT SHALLOW DEPTHS
- ANY CONSTRUCTION PERSONNEL, INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE SIGHT OF:
  - THE FULL DESIGNERS AND CONTRACTORS HAZARD AND RISK ASSESSMENTS AND RISK REGISTERS.
  - THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN.
  - THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.

**FOR APPROVAL**

REV	DESCRIPTION	BY	CHK	APP	DATE
P3	JOINT AND TRENCH REINSTATEMENT DETAILS ADDED	MBd	SJB	SJB	07.09.15
P2	JOINT DETAILS REMOVED AND REGULATING DETAIL ADDED	MBd	SJB	SJB	14.06.15
P1	FIRST ISSUE	ICG	MBd	SJB	11.05.15



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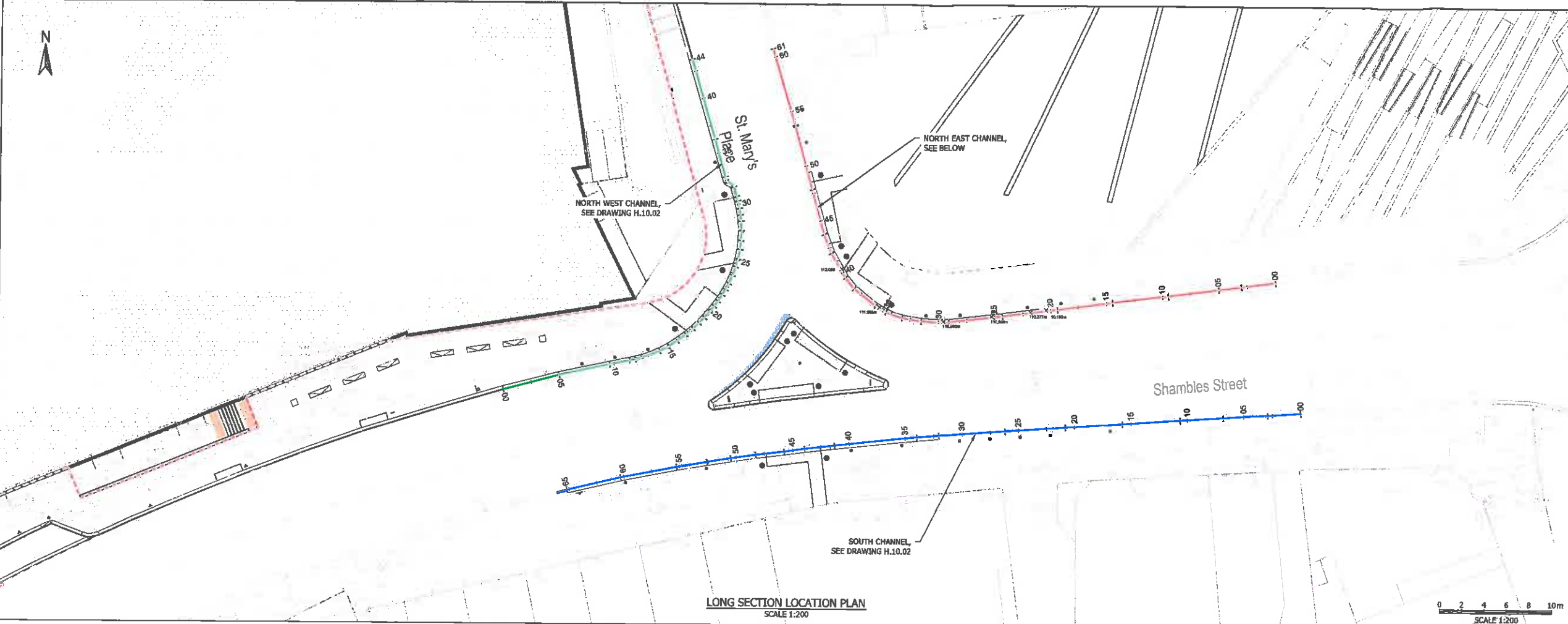
**wyg**

Project:  
**BARNSELY COLLEGE**  
 6th FORM CENTRE

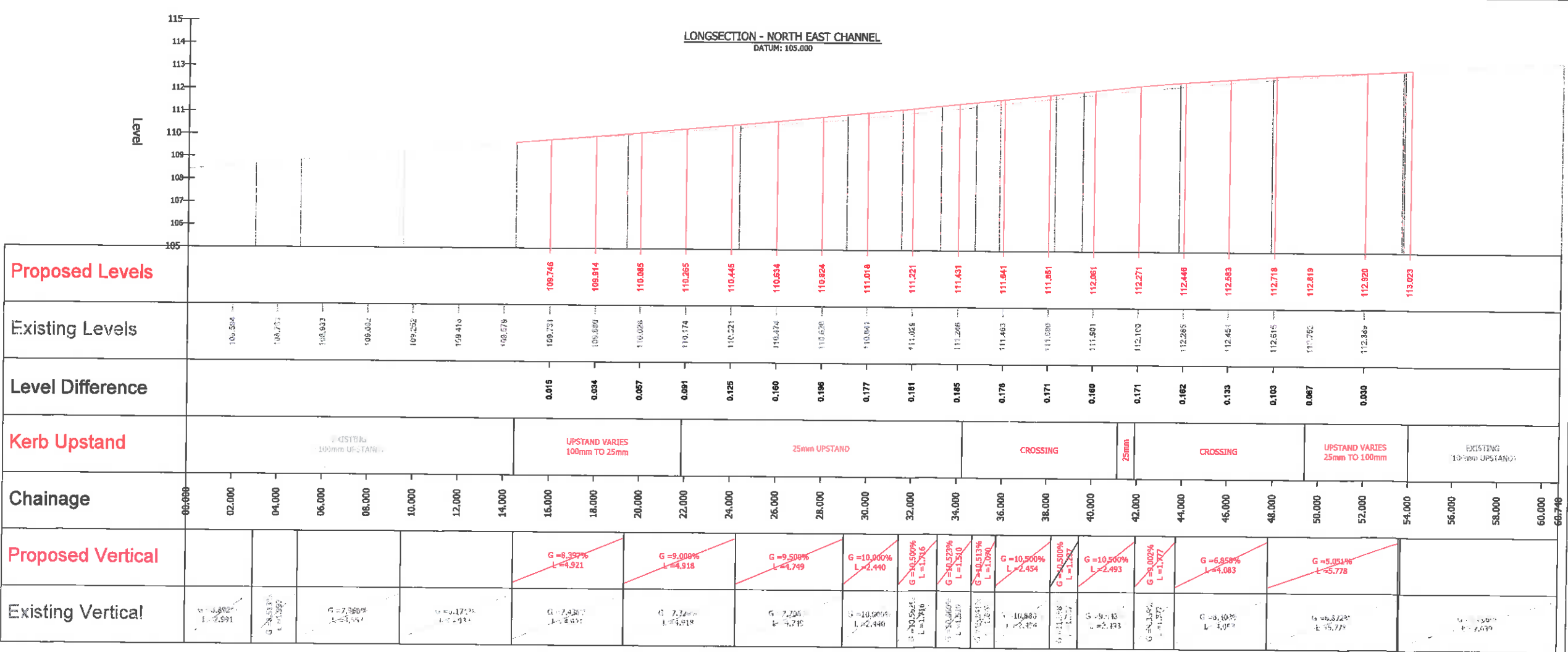
Drawing Title:  
**SECTION 278 HIGHWAY WORKS**  
 TYPICAL DETAILS  
 GENERAL

Scale	AS SHOWN	A1	Drawn	Date	ICG	11.05.15	Checked	Date	MBd	11.05.15	Approved	Date	SJB	11.05.15
Project No.	A029037-12	Office	21	Type	C	Drawing No.	H.08.04	Revision	P3					

FILENAME: \\N:\PROJECTS\A029037-12\ACAD\DWG\HIGHWAYS\H.L01 AND CP - CHANNEL LONG SECTIONS.DWG | PLOTTED BY: MATTHEW BERRYFIELD | PLOTTED DATE: 07 September 2015 19:09:30



- DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS
- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
  - THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.
  - DATUM : OS LEVEL DATUM, USING THE OS GPS NETWORK AND APPLYING OSGM02 NATIONAL GEOID MODEL TO OBTAIN LOCAL AREA CORRECTIONS.
  - FOR THE SHAMBLES STREET / ST. MARY'S PLACE JUNCTION LEVELS SEE DRAWING H.01.05. FOR WIDER WORKS LEVELS SEE DRAWING H.01.04. FOR KERBING DETAILS AND UPSTANDS REFER TO KERBING DRAWING H.11.01.



0 1000 2000 3000 4000 5000 mm  
SCALE 1:100

**FOR APPROVAL**

P1	FIRST ISSUE	ICG	Nbd	SJB	07.09.15
REV	DESCRIPTION	BY	CHK	APP	DATE



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Project:  
**BARNSELY COLLEGE**  
6th FORM CENTRE

Drawing Title:  
**SECTION 278 HIGHWAY WORKS  
SHAMBLES STREET AND ST MARY'S PLACE  
CHANNEL LONG SECTIONS - SHEET 1 OF 2**

Scale @ A1	Drawn	Date	Checked	Date	Approved	Date
AS SHOWN	ICG	07.09.15	MBD	07.09.15	SJB	07.09.15
Project No.	Office	Type	Drawing No.	Revision		
A029037-12	21	C	H.10.01	P1		





**IMPORTANT CDM / H&S NOTE**

THE DESIGNERS WOULD DRAW THE READERS ATTENTION TO KEY RESIDUAL CONSTRUCTION HEALTH AND SAFETY HAZARDS THAT HAVE NOT BEEN ELIMINATED FROM THE DESIGNS SHOWN ON THE DRAWINGS BY THE DESIGN PROCESS. THESE HAZARDS ARE IDENTIFIED BELOW & ON THE DRAWING:

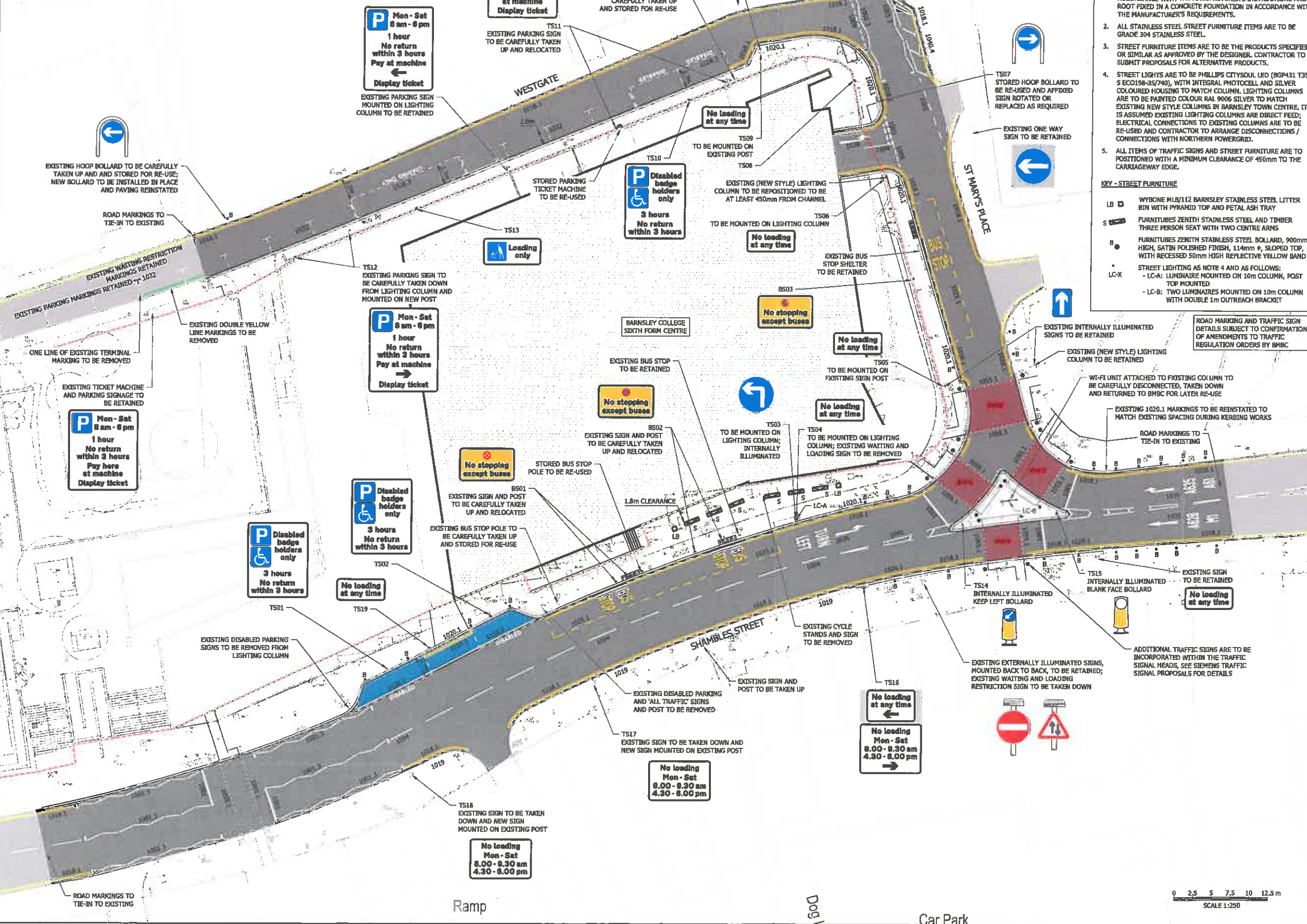
EXISTING UNDERGROUND SERVICES (KNOWN AND UNKNOWN), INCLUDING HV ELECTRIC AND SOME AT SHALLOW DEPTHS

ANY CONSTRUCTION PERSONNEL INCLUDING OPERATIVES INTENDING TO CONSTRUCT THE DESIGNS SHOWN ON THIS DRAWING SHOULD ENSURE THAT THEY HAVE BEEN THOROUGHLY BRIEFED BY THE PRINCIPAL CONTRACTOR ON ALL HEALTH AND SAFETY MATTERS AND HAVE SIGHT OF:

- THE FULL DESIGNERS AND CONTRACTORS HAZARD AND RISK ASSESSMENTS AND RISK REGISTERS,
- THE DEVELOPED CONSTRUCTION PHASE HEALTH AND SAFETY PLAN,
- THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS.



FILE NAME: H:\PROJECTS\A029037-12\A029037-12\CADD\DWG\HIGHWAY\H.12.01\_S278\_TRAFFIC\_SIGNS, ROAD MARKINGS, STREET FURNITURE.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 02 October 2015 17:49:54



**TRAFFIC SIGNS AND ROAD MARKING NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE TRAFFIC SIGNS SCHEDULE, DRAWING H.12.02.
- TRAFFIC SIGNS AND ROAD MARKINGS ARE TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2002 (TSRGD) AND THE RELEVANT CHAPTERS OF THE TRAFFIC SIGNS MANUAL. DIAGRAM NUMBERS REFER TO THOSE IN THE TSRGD.
- ROAD MARKINGS TO BE IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS CLAUSE 1212 AND BS EN 1871. MARKINGS TO BE THERMOPLASTIC WITH APPLIED GLASS BEADS, SUITABLE FOR SURFACE BEING APPLIED TO. COLOURS AS INDICATED ARE TO BE IN ACCORDANCE WITH BS EN 1436 TABLE 6. SKID RESISTANCE TO BE CLASS 53 TO BS EN 1436 TABLE 7 SRT2.55.

**STREET FURNITURE NOTES**

- ALL STREET FURNITURE ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ROOT FIXED IN A CONCRETE FOUNDATION IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- ALL STAINLESS STEEL STREET FURNITURE ITEMS ARE TO BE GRADE 304 STAINLESS STEEL.
- STREET FURNITURE ITEMS ARE TO BE THE PRODUCTS SPECIFIED OR SIMILAR AS APPROVED BY THE DESIGNER. CONTRACTOR TO SUBMIT PROPOSALS FOR ALTERNATIVE PRODUCTS.
- STREET LIGHTS ARE TO BE PHILLIPS CITYSOUL LED (BGM431 T35 S ECO198-35/740), WITH INTEGRAL PHOTOCELL AND SILVER COLOURED HOUSING TO MATCH COLUMN. LIGHTING COLUMNS ARE TO BE PAINTED COLOUR RAL 9006 SILVER TO MATCH EXISTING NEW STYLE COLUMNS IN BARNSELY TOWN CENTRE. IT IS ASSUMED EXISTING LIGHTING COLUMNS ARE DIRECT FEED; ELECTRICAL CONNECTIONS TO EXISTING COLUMNS ARE TO BE RE-USED AND CONTRACTOR TO ARRANGE DISCONNECTIONS / CONNECTIONS WITH NORTHERN POWERGRID.
- ALL ITEMS OF TRAFFIC SIGNS AND STREET FURNITURE ARE TO BE POSITIONED WITH A MINIMUM CLEARANCE OF 450mm TO THE CARRIAGEWAY EDGE.

**KEY - STREET FURNITURE**

- LB WYBONE ML12/BARNSELY STAINLESS STEEL LITTER BIN WITH PYRAMID TOP AND PETAL ASH TRAY
- S FURNITURES ZENITH STAINLESS STEEL AND TIMBER THREE PERSON SEAT WITH TWO CENTRE ARMS
- B FURNITURES ZENITH STAINLESS STEEL BOLLARD, 900mm HIGH, SATIN POLISHED FINISH, 114mm ø, SLOPED TOP, WITH RECESSED 50mm HIGH REFLECTIVE YELLOW BAND
- LC-X STREET LIGHTING AS NOTE 4 AND AS FOLLOWS:
  - LC-A: LUMINAIRE MOUNTED ON 10m COLUMN, POST TOP MOUNTED
  - LC-B: TWO LUMINAIRES MOUNTED ON 10m COLUMN WITH DOUBLE 1m OUTREACH BRACKET

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND THE SPECIFICATION.
- THE SURVEY INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER WYG DRAWINGS IS NOT WARRANTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INFORMATION PROVIDED.

**KEY**

--- ADOPTED HIGHWAY BOUNDARY FOLLOWING STOPPED UP / DEDICATION

**KEY - ROAD MARKINGS**

DIMENSIONS ARE IN MILLIMETRES; ALL MARKINGS ARE WHITE UNLESS NOTED OTHERWISE

**DIAG NO. DESCRIPTION**

- 1001 - CONTINUOUS MARK, 200 WIDE
- 1001.3 - ZIG-ZAG MARKS: 2000 LONG, 100 WIDE, NUMBER OF MARKS AS SHOWN
- 1003 - 600 MARK, 300 GAP, 200 WIDE; 300 CLEAR GAP BETWEEN PARALLEL EDGES
- 1004 - 4000 MARK, 2000 GAP, 100 WIDE
- 1009 - 600 MARK, 300 GAP, 100 WIDE
- 1010 - 1000 MARK, 1000 GAP, 100 WIDE
- 1018.1 - CONTINUOUS MARKS, 75 CLEAR GAP BETWEEN PARALLEL EDGES, 75 WIDE; TERMINAL MARKING 450, 75 WIDE; YELLOW
- 1019 - 250 MARK AND EXTENDED DOWN THE KERB FACE, 100 WIDE; MARKS TO BE LAID AT CONSISTENT CENTRES BETWEEN 2000 AND 4000; YELLOW
- 1020.1 - 250 MARKS AND EXTENDED DOWN THE KERB FACE, 100 CLEAR GAP BETWEEN PARALLEL EDGES, 100 WIDE; PAIRS OF MARKS TO BE LAID AT CONSISTENT CENTRES BETWEEN 2000 AND 4000; YELLOW
- 1025.1 - ADJACENT TO KERB: CONTINUOUS MARK, 200 WIDE TEXT: 1600 HIGH, 1000 GAP BETWEEN LINES
- 1028.3 - EDGE LINE: 600 MARK, 600 GAP, 50 WIDE BAY LINE: 600 MARK, 600 GAP, 50 WIDE TEXT: 350 HIGH
- 1032 - BAY LINE: 600 MARK, 600 GAP, 50 WIDE END BAY LINES: AS BAY LINE, 100 CLEAR GAP TERMINAL LINE: 1150 MARK, 50 WIDE
- 1038 - TURN ARROW: 4000 HIGH, MAX. 750 WIDE AHEAD ARROW: 4000 HIGH, MAX. 500 WIDE
- 1040 - BOUNDARY LINES: AS 1004 HATCH LINES: CONTINUOUS MARK, 150 WIDE, 3000 SPACING
- 1040.4 - BOUNDARY LINES: AS 1004 HATCH LINES: CONTINUOUS MARK, 150 WIDE, 3000 SPACING
- 1055.1 - NON-RETROREFLECTIVE CROSSING DELINEATION ROAD STUDS, 100 SQUARE AND OF METAL CONSTRUCTION, IN ACCORDANCE WITH BS 873-4, 500 CENTRES, STARTING MAX. 1300 OFFSET FROM CARRIAGEWAY EDGE
- RHFS - TO CROSSINGS: RESIN-BASED HIGH SKID RESISTANT SURFACING WITH 3mm BAUXITE, COLOURED RED

**FOR APPROVAL**

REV	DESCRIPTION	BY	CHK	APP	DATE
P6	BAND ADDED TO BOLLARD, SHAMBLES STREET STOP LINE AMENDED	Mbd	JW	JW	02.10.15
P5	UPDATED FOLLOWING BMBC COMMENTS	Mbd	SJB	SJB	11.09.15
P4	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	Mbd	SJB	SJB	07.09.15
P3	UPDATED FOLLOWING BMBC COMMENTS AND DESIGN DEVELOPMENT	Mbd	SJB	SJB	14.08.15
P2	UPDATED FOLLOWING BMBC TRO COMMENTS AND DESIGN DEVELOPMENT	ICG	Mbd	SJB	11.05.15
P1	FIRST ISSUE	ICG	Mbd		24.04.15

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Project:  
**BARNSELY COLLEGE**  
6th FORM CENTRE

Drawing Title:  
**SECTION 278 HIGHWAY WORKS**  
TRAFFIC SIGNS, ROAD MARKINGS,  
STREET LIGHTING AND STREET FURNITURE

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date
1:250		ICG	24.04.15	Mbd	24.04.15		

Project No.	Office	Type	Drawing No.	Revision
A029037-12	21	C	H.12.01	P6

SCALE 1:250

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**TURN LEFT AHEAD**  
TS03



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 609	x-height N/A
Letter colour WHITE	SIGN FACE
Background BLUE	Width 600mm
Border WHITE	Height 600mm
Material Class R3A/B (12899-1:2007)	Area 0.28sq.m

SIGN TO BE INTERNALLY ILLUMINATED, SEE NOTE 4

SIGN TO BE MOUNTED ON LIGHTING COLUMN,  
2300mm MOUNTING HEIGHT

**LOADING RESTRICTION, AT ANY TIME**  
TS04, TS05, TS06, TS08, TS09, TS19



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 638	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 255mm
Border BLACK	Height 115mm
Material NON-RETROREFLECTIVE	Area 0.03sq.m

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	322mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

TS04 AND TS06 TO BE MOUNTED ON LIGHTING COLUMN

TS05 AND TS09 TO BE MOUNTED ON EXISTING SIGN POST

**ONE WAY BOLLARD**  
TS07



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 606	x-height N/A
Letter colour WHITE	SIGN FACE
Background BLUE	Width 600mm
Border WHITE	Height 600mm
Material Class R3A/B (12899-1:2007)	Area 0.28sq.m

SIGN TO BE MOUNTED TO AN EXISTING HOOP BOLLARD  
REMOVED ELSEWHERE FROM SITE, EXISTING SIGN TO  
BOLLARD TO BE EITHER ROTATED OR REPLACED

**BUS STOP RESTRICTION**  
BS01, BS02, BS03



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 974	x-height 20.0
Letter colour BLACK	SIGN FACE
Background YELLOW	Width 275mm
Border BLACK	Height 175mm
Material Class R3A/B (12899-1:2007)	Area 0.08sq.m

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	322mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

\* SIZE OF EXISTING TRAFFIC SIGN HAS BEEN ASSUMED,  
POST AND FOUNDATION DETAILS MAY NEED ADJUSTMENT  
IF ACTUAL SIGN SIZE IS DIFFERENT

BS01 AND BS02 TO BE MOUNTED ON NEW POSTS IF  
EXISTING POSTS CANNOT BE RE-USED

**PARKING, DISABLED**  
TS01, TS02, TS10



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 661A	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 320mm
Border BLACK	Height 400mm
Material NON-RETROREFLECTIVE	Area 0.13sq.m

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	345mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

**PARKING, PAY HERE**  
TS11 (EXISTING SIGN TO BE RE-USED)



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 661.3A	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 365mm*
Border BLACK	Height 425mm*
Material NON-RETROREFLECTIVE	Area 0.16sq.m*

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	345mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

\* SIZE OF EXISTING TRAFFIC SIGN HAS BEEN ASSUMED,  
POST AND FOUNDATION DETAILS MAY NEED ADJUSTMENT  
IF ACTUAL SIGN SIZE IS DIFFERENT

SIGN TO BE MOUNTED ON NEW POST IF EXISTING POST  
CANNOT BE RE-USED

**PARKING, PAY AT MACHINE**  
TS12 (EXISTING SIGN TO BE RE-USED)



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 661.2A	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 365mm*
Border BLACK	Height 445mm*
Material NON-RETROREFLECTIVE	Area 0.16sq.m*

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	345mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

\* SIZE OF EXISTING TRAFFIC SIGN HAS BEEN ASSUMED,  
POST AND FOUNDATION DETAILS MAY NEED ADJUSTMENT  
IF ACTUAL SIGN SIZE IS DIFFERENT

TS12 TO BE MOUNTED ON NEW POST IF EXISTING POST  
CANNOT BE RE-USED

**LOADING BAY RESTRICTION**  
TS13



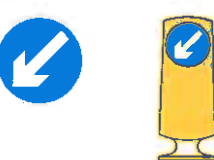
Scheme Ref. A029037-12	
Sign Ref. 660-4	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 305mm
Border BLACK	Height 140mm
Material NON-RETROREFLECTIVE	Area 0.04sq.m

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	319mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

\* SIZE OF EXISTING TRAFFIC SIGN HAS BEEN ASSUMED,  
POST AND FOUNDATION DETAILS MAY NEED ADJUSTMENT  
IF ACTUAL SIGN SIZE IS DIFFERENT

TS13 TO BE MOUNTED ON NEW POSTS IF EXISTING POSTS  
CANNOT BE RE-USED

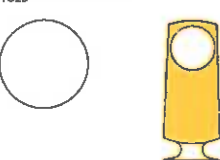
**KEEP LEFT BOLLARD**  
TS14



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 610	x-height N/A
Letter colour WHITE	SIGN FACE
Background BLUE	Width 270mm
Border WHITE	Height 270mm
Material Class R3A/B (12899-1:2007)	Area 0.1sq.m

SIGN TO BE MOUNTED ON AN INTERNALLY  
ILLUMINATED BOLLARD, SEE NOTE 5

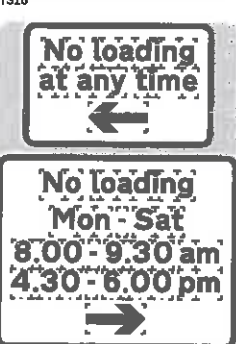
**BLANK FACE BOLLARD**  
TS15



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. N/A	x-height N/A
Letter colour WHITE	SIGN FACE
Background WHITE	Width 270mm
Border WHITE	Height 270mm
Material Class R3A/B (12899-1:2007)	Area 0.1sq.m

SIGN TO BE MOUNTED ON AN INTERNALLY  
ILLUMINATED BOLLARD, SEE NOTE 5

**LOADING RESTRICTION, CHANGE POINT**  
TS16



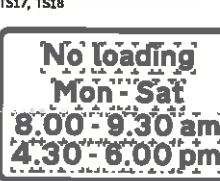
Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 638-A	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 255mm
Border BLACK	Height 170mm
Material NON-RETROREFLECTIVE	Area 0.04sq.m

Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 638.1	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 325mm
Border BLACK	Height 265mm
Material NON-RETROREFLECTIVE	Area 0.09sq.m

Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 66-A	x-height 20.0
Letter colour N/A	SIGN FACE
Background GREY	Width 325mm
Border N/A	Height 455mm
Material NON-RETROREFLECTIVE	Area 0.15sq.m

POST(S) & FOUNDATIONS			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	700mm
Size	50.0x3.0 SHS	Base Length	700mm
Length	350mm	Base Depth	600mm
Centres	N/A	Base Vol. o/g	0.29 m <sup>3</sup>
Illumination	No	Earth Cover	150mm

**LOADING RESTRICTION, PEAK HOURS**  
TS17, TS18



Scheme Ref. BARNSELEY 6FC S278 WORKS	
Sign Ref. 638.1-A	x-height 20.0
Letter colour BLACK	SIGN FACE
Background WHITE	Width 325mm
Border BLACK	Height 210mm
Material NON-RETROREFLECTIVE	Area 0.07sq.m

SIGNS TO BE MOUNTED ON EXISTING POSTS

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND  
REPORT ANY OMISSIONS OR ERRORS

**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH  
DRAWING H.12.01. TRAFFIC SIGN LOCATIONS ARE SHOWN ON  
THIS DRAWING.
- TRAFFIC SIGNS ARE TO BE IN ACCORDANCE WITH THE  
SPECIFICATION FOR HIGHWAY WORKS CLAUSES 1201 TO 1209.
- POSTS FOR TRAFFIC SIGNS ARE TO HAVE A POWDER COATED  
AIRCRAFT GREY FINISH IN ACCORDANCE WITH BMBC  
REQUIREMENTS TO MATCH EXISTING.
- INTERNALLY ILLUMINATED SIGNS ARE TO BE LED UNITS BY  
ONEZSEE IN ACCORDANCE WITH BMBC REQUIREMENTS TO  
MATCH EXISTING.
- ILLUMINATED BOLLARDS ARE TO BE SOLABOLL BOLLARDS BY  
PUIDSEY DIAMOND ENGINEERING.
- SIGN FACE EDGES ARE TO HAVE A MINIMUM OFFSET FROM  
THE EDGE OF THE CARRIAGEWAY OF 450mm.
- RETROREFLECTIVE SIGN FACES ARE TO BE CLASS R3A/B,  
3M DIAMOND GRADE DG<sup>+</sup> OR SIMILAR APPROVED.
- ALL SIGNS (INCLUDING INTERNALLY ILLUMINATED) ARE TO BE  
COVERED WITH AN ANTI-GRAFFITI PROTECTIVE OVERLAY  
FILM.
- ALTERNATIVE SIGN POST FOUNDATION DETAILS (SUCH AS  
PILES) MAY BE ACCEPTABLE. CONTRACTOR TO SUBMIT  
PROPOSALS, IF REQUIRED, FOR APPROVAL.

**FOR APPROVAL**

REV	DESCRIPTION	BY	CHK	APP	DATE
P5	UPDATED, BMBC COMMENTS	MBd	SJB	SJB	11.09.15
P4	UPDATED, BMBC COMMENTS	MBd	SJB	SJB	07.09.15
P3	UPDATED, LOADING BAY REMOVED	MBd	SJB	SJB	14.08.15
P2	UPDATED, BMBC TRO COMMENTS	ICG	MBd	SJB	11.05.15
P1	FIRST ISSUE	ICG	MBd		24.04.15



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e-mail: leads@wyg.com

Project:  
BARNSELEY COLLEGE  
6th FORM CENTRE

Drawing Title:  
SECTION 278 HIGHWAY WORKS  
TRAFFIC SIGNS SCHEDULE

Scale	A1	Drawn	Date	Checked	Date	Approved	Date
1:1250	ICG	21	24.04.15	MBd	24.04.15		
Project No.	Office	Type	Drawing No.	Revision			
A029037-12	21	C	H.12.02	P5			

FILENAME: H:\PROJECTS\A029037-12\CAD\DWG\TRAFFIC SIGNS SCHEDULE.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 11 September 2015 15:05:06



Council Offices

WESTGATE

120.7m +

Govt  
Offices

John Rideal House  
(Government Offices)

Library

ST MARY'S PLACE

Ps

SHAMBLES STREET

115.2m +

Yorkshire House  
(Government Offices)

The Sham  
(PH)

The Three Travellers  
(PH)

Car Park

Dog Lane



SCALE 1:500



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ORDNANCE SURVEY 0100031673

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND  
REPORT ANY OMISSIONS OR ERRORS

NOTES

1. AREA SHOWN TO BE DEDICATED AS HIGHWAY IS BASED ON THE EXISTING ADOPTED HIGHWAY BOUNDARY RECORDS AMENDED TO REFLECT THE SECTION 247 STOPPING UP APPLICATION IN RELATION TO THE SHAMBLES STREET RETAINING WALL AND THE STOPPING UP AS A RESULT OF "THE STOPPING UP OF HIGHWAYS (YORKSHIRE AND THE HUMBER) (NO.28) ORDER 2015". SEE DRAWING A029037-12-21-C-S228.02.
2. NEW 6TH FORM CENTRE BUILDING POSITION TAKEN FROM DRAWING PROVIDED BY BOND BRYAN ARCHITECTS RECEIVED 26 FEBRUARY 2015.

KEY

-  AREA TO BE DEDICATED AS HIGHWAY
-  NEW 6TH FORM CENTRE BUILDING

P3	AREA TO BE DEDICATED EDGED BLUE, ADOPTED HIGHWAY BOUNDARY REMOVED, NOTES AMENDED	MBd	SJB	SJB	24.09.15
P2	BOUNDARY UPDATED AT ACCESS FOLLOWING REVISED BMBC PLAN AND TO REFLECT STOPPING UP APPLICATION	MBd	SJB	SJB	21.09.15
P1	FIRST ISSUE	MBd	SJB	SJB	10.04.15
REV	DESCRIPTION	BY	CHK	APP	DATE



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Project:  
BARNESLEY COLLEGE  
6th FORM CENTRE

Drawing Title:  
HIGHWAY DEDICATION  
LAYOUT

Scale @	A3	Drawn	Date	Checked	Date	Approved	Date
1:500		MBd	10.04.15	SJB	10.04.15	SJB	10.04.15
Project No.	Office	Type	Drawing No.	Revision			
A029037-12	21	C	S228.01	P3			

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FILENAME: H:\PROJECTS\A029037-12\ACAD\DWG\HIGHWAYS\S228 - DEDICATION\S228.01 DEDICATION PLAN.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 25 September 2015 11:16:03



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

- NOTES**
- EXISTING ADOPTED HIGHWAY BOUNDARY BASED ON BARNSELY METROPOLITAN BOROUGH COUNCIL ADOPTED HIGHWAY RECORDS RECEIVED ON 7 APRIL 2014 AND 5 MAY 2015.
  - THE ADOPTED HIGHWAY BOUNDARY SHOWN IS THE EXISTING ADOPTED HIGHWAY BOUNDARY FROM THE RECORD RECEIVED (SEE NOTE 1) AMENDED TO REFLECT THE STOPPING UP AS A RESULT OF "THE STOPPING UP OF HIGHWAYS (YORKSHIRE AND THE HUMBER) (NO.28) ORDER 2015".
  - NEW 6TH FORM CENTRE BUILDING POSITION TAKEN FROM DRAWING PROVIDED BY BOND BRYAN ARCHITECTS RECEIVED 26 FEBRUARY 2015.

- KEY**
- ADOPTED HIGHWAY BOUNDARY FOLLOWING STOPPING UP (SEE NOTE 2)
  - AREA SUBJECT TO THE SECTION 247 STOPPING UP APPLICATION IN RELATION TO THE SHAMBLES STREET RETAINING WALL (DEPARTMENT FOR TRANSPORT REFERENCE NATTRAN/Y&H/S247/2019)
  - NEW 6TH FORM CENTRE BUILDING

P1	FIRST ISSUE	Mbd	SJB	SJB	25.09.15
REV	DESCRIPTION	BY	CHK	APP	DATE



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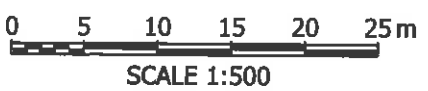


Project:  
**BARNSELY COLLEGE  
6th FORM CENTRE**

Drawing Title:  
**HIGHWAY BOUNDARY RESULTING  
FROM STOPPING UP APPLICATIONS**

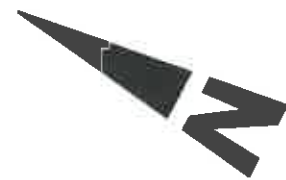
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1:500	Mbd	SJB	25.09.15	SJB	25.09.15	SJB	25.09.15
Project No.	Office	Type	Drawing No.	Revision			
A029037-12	21	C	S228.02	P1			

FILENAME: N:\PROJECTS\A029037-12\ACAD\DWGS\HIGHWAYS\S228 - DEDICATION\S228.01 DEDICATION PLAN.DWG | PLOTTED BY: MATTHEW BRAYFIELD | PLOTTED DATE: 25 September 2015 11:16:34



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ORDNANCE SURVEY 0100031673

- Removals:
- REM1 - Take down and set aside for re-use existing 'Bus limited waiting sign'. Post to remain.
  - REM2 - Take down and set aside for re-use existing 'pay and display zone' sign.  
Take down post and remove to tip.



Barnsley College

EASTGATE

REM1

REM2

BUSES BUSES

CHURCH STREET

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COMPUTER FILE NAME



**BARNLSLEY**  
Metropolitan Borough Council

**Church Street, Barnsley  
Removals Plan**

Scale 1:500	
Drawn AD	Date 16/07/14
Checked	File 3691

M Gladstone, Interim Executive Director  
Development, Environment & Culture  
Westgate Plaza One, Westgate  
Barnsley, S70 2DR.  
Tel. (01226) 773555 Fax. (01226) 772110  
Drawing No. **TR/3691/01**

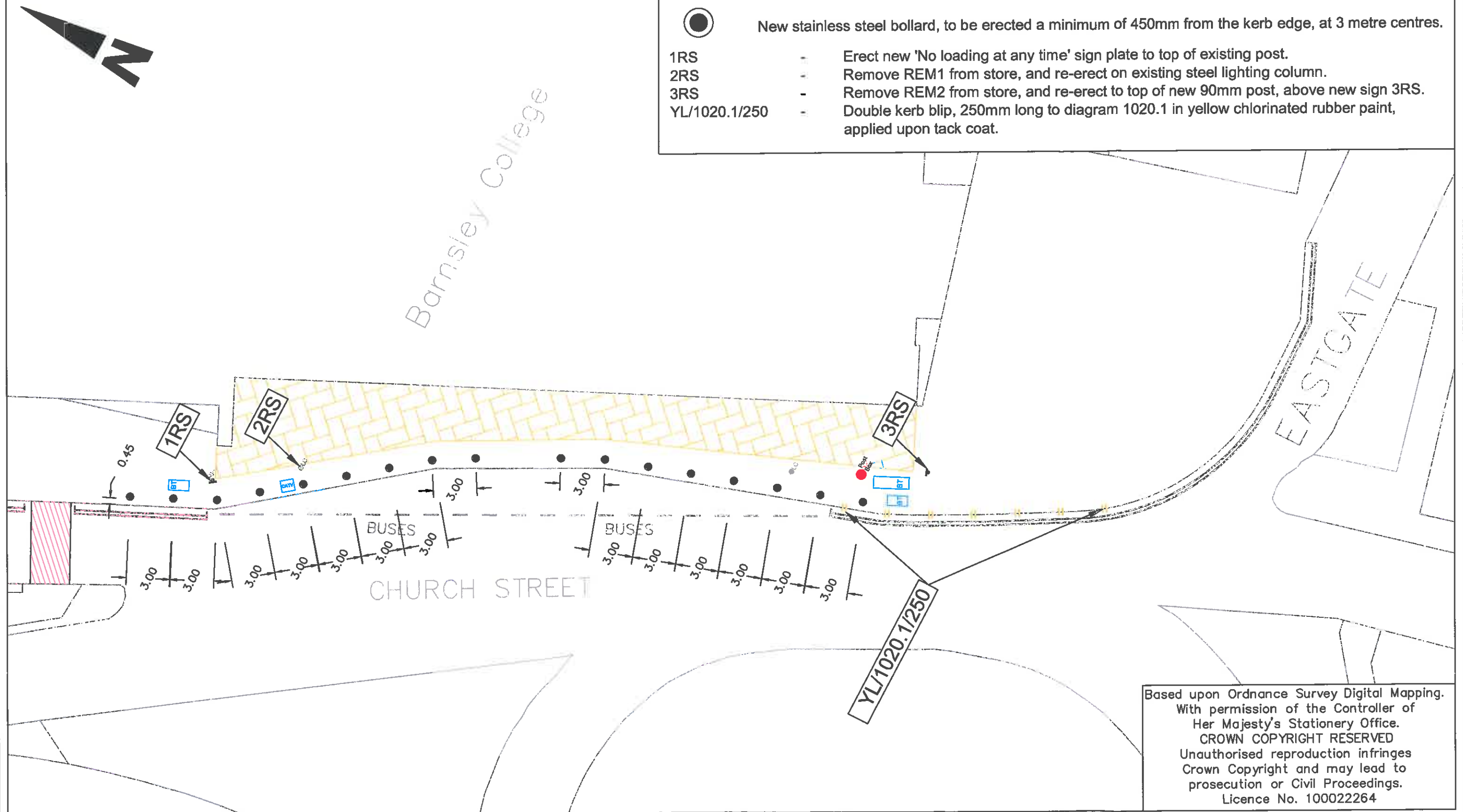
All signing and lining to be in accordance with the Traffic Signs Regulations and General Directions 2002.  
 Further details can be obtained from the working drawings, available from the DfT website.

Key:



New stainless steel bollard, to be erected a minimum of 450mm from the kerb edge, at 3 metre centres.

- 1RS - Erect new 'No loading at any time' sign plate to top of existing post.
- 2RS - Remove REM1 from store, and re-erect on existing steel lighting column.
- 3RS - Remove REM2 from store, and re-erect to top of new 90mm post, above new sign 3RS.
- YL/1020.1/250 - Double kerb blip, 250mm long to diagram 1020.1 in yellow chlorinated rubber paint, applied upon tack coat.



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COMPUTER FILE NAME



**Church Street, Barnsley**  
**Signing, lining and street furniture plan**

Scale	
1:500	
Drawn	Date
AD	16/07/14
Checked	File
	3691

M Gladstone, Interim Executive Director  
 Development, Environment & Culture  
 Westgate Plaza One, Westgate  
 Barnsley, S70 2DR.  
 Tel. (01226) 773555 Fax. (01226) 772110

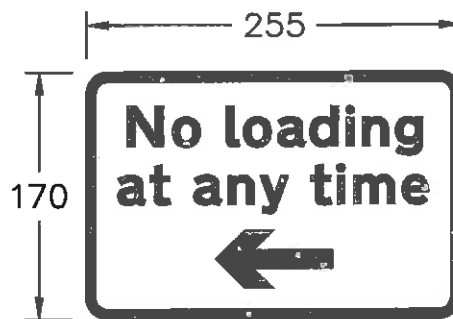
Drawing No. **TR/3691/02**

All signing to be in accordance with the Traffic Signs Regulations and General Directions 2002. Further details can be obtained from the working drawings, available from the DfT website.



Scheme Ref. Church Street, Barnsley			
Sign Ref.	638	x-height	20.0
Letter colour	BLACK	SIGN FACE	
Background	WHITE	Width	255mm
Border	BLACK	Height	170mm
Material	Non-reflective and 1160 POF		Area 0.04sq.m

Sign to be erected to top of existing sign post.



COMPUTER FILE NAME



**BARN斯LEY**  
Metropolitan Borough Council

Drawing **Church Street, Barnsley**  
**1RS**

Scale  
**N.T.S.**

Drawn  
**AD** Date  
**15/07/14**

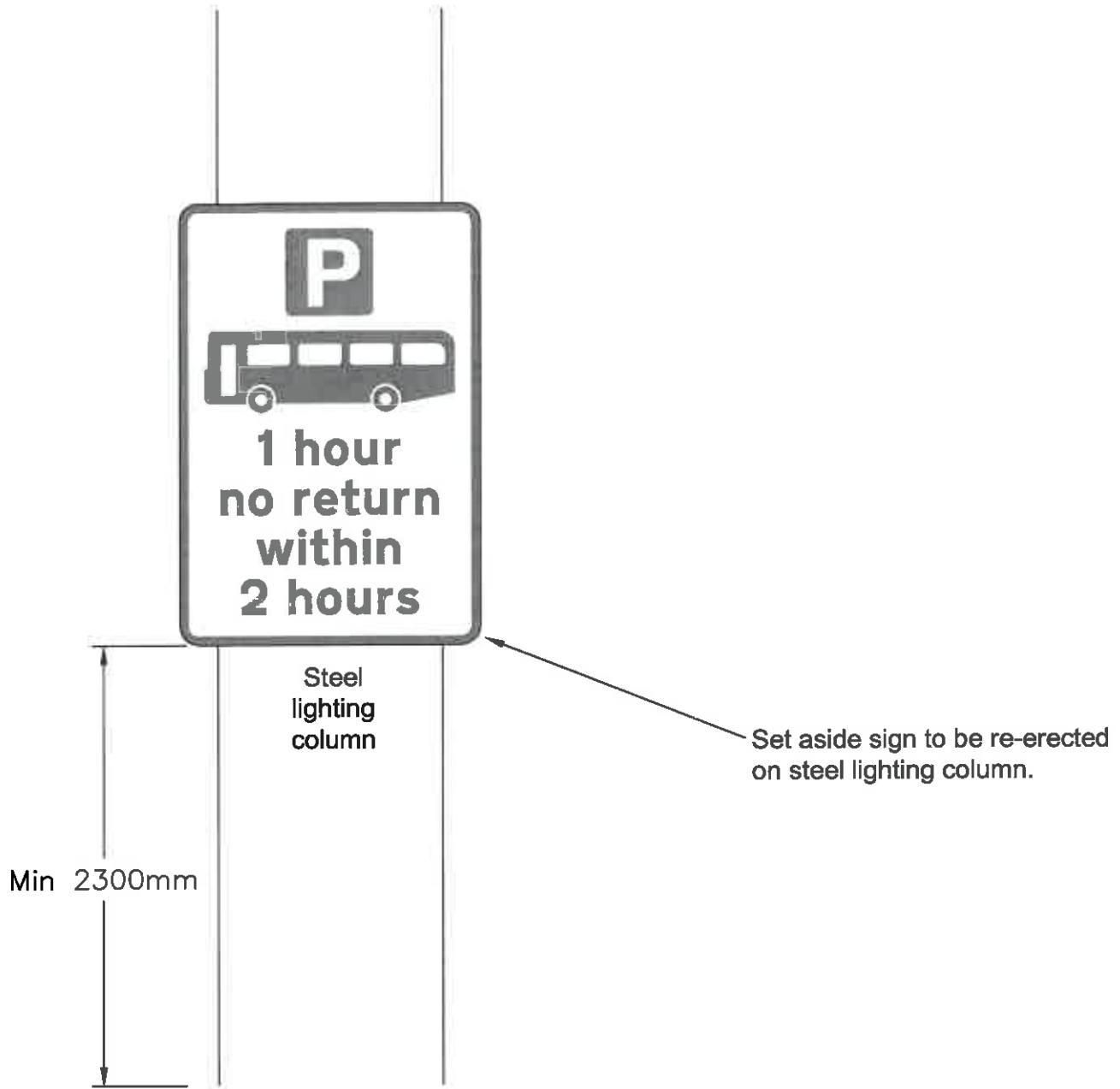
Checked  
File  
**3691**

M Gladstone, Interim Executive Director  
Development, Environment & Culture  
Westgate Plaza One, Westgate  
Barnsley, S70 2DR.  
Tel. (01226) 773555 Fax. (01226) 772110

Drawing No.

**TR/SL/3691/1RS**

All signing to be in accordance with the Traffic Signs Regulations and General Directions 2002.  
 Further details can be obtained from the working drawings, available from the DfT website.



COMPUTER FILE NAME



**BARNSLEY**  
 Metropolitan Borough Council

Drawing **Church Street, Barnsley**  
**2RS**

Scale  
**N.T.S.**

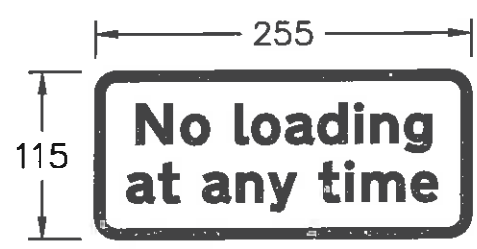
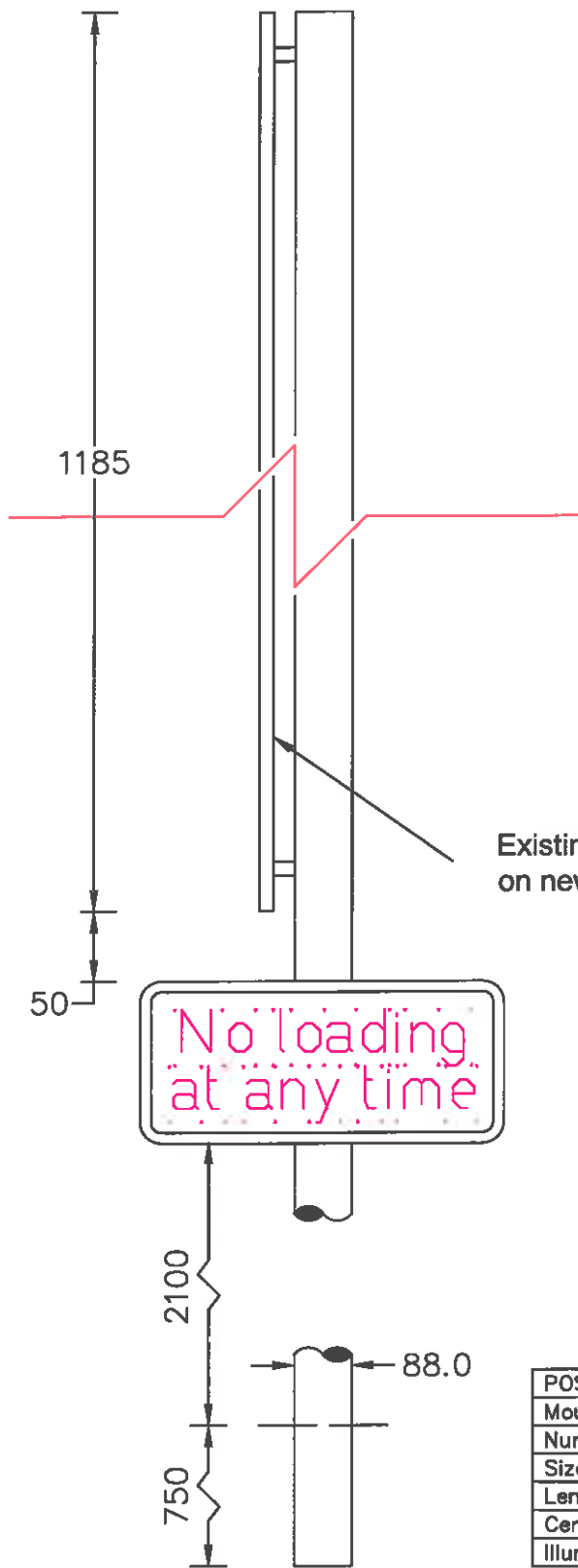
Drawn  
**AD**      Date  
 15/07/14

Checked  
 File  
 3691

M Gladstone, Interim Executive Director  
 Development, Environment & Culture  
 Westgate Plaza One, Westgate  
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 Tel. (01226) 773555 Fax. (01226) 772110

Drawing No.  
**TR/SL/3691/2RS**


All signing to be in accordance with the Traffic Signs Regulations and General Directions 2002. Further details can be obtained from the working drawings, available from the DfT website.



Existing 'Pay and Display Zone' sign to be re-erected on new post at mounting height of 2265mm

Scheme Ref. Church Street, Barnsley			
Sign Ref.	638	x-height	20.0
Letter colour	BLACK	SIGN FACE	
Background	WHITE	Width	255mm
Border	BLACK	Height	115mm
Material	Non-reflective and 1160 POF		Area 0.03sq.m

POST(S) & FOUNDATION DESIGN (BS 873*)			
Mounting Height	2300mm	Bases	Individual
Number	1	Base Width	900mm
Size	88.9x3.2CHS	Base Length	900mm
Length	4200	Base Depth	600mm
Centres	N/A	Base Vol. o/a	0.49 m3
Illumination	No	Earth Cover	150mm

 <b>BARNLSLEY</b> Metropolitan Borough Council	Scale <b>N.T.S.</b>	M Gladstone, Interim Executive Director Development, Environment & Culture Westgate Plaza One, Westgate Barnsley, S70 2DR. Tel. (01226) 773555 Fax. (01226) 772110
	Drawing <b>Church Street, Barnsley 3RS</b>	
	Checked File 3691	Drawing No. <b>TR/SL/3691/3RS</b>