Certificate No: 921607

peter brett associates
CONSULTING ENGINEERS

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Your Ref:

Our Ref:
(Please quote when replying)

11090/005/WST/pc/MPC/pc

2nd September 2002

Reading Borough Council
Planning Section
PO Box 17
Civic Centre
Reading RG1 7TD

Dear Sirs,

M4 JUNCTION 11 IMPROVEMENTS:
Planning Application

Peter Brett Associates are pleased to submit this full planning application, on behalf of Reading Borough Council Transport Strategy, for:

> *the reconstruction of M4 Junction 11 Interchange, including works to approach roads, construction of new motorway bridges, footbridges, cycleways, footpaths; relocation and rebuilding of highway maintenance depot and police facility and landscaping works.*

The proposal straddles the boundary between Reading and Wokingham. Identical planning applications are submitted to both planning authorities.

Scheme Components

The main development components of the scheme are:

- new 4 lane signalised gyratory
- 2 new motorway over-bridges (existing bridges retained for pedestrian/cycle and bus facilities)
- segregated public transport routes
- dedicated routes for pedestrians and cyclists including 4 new cycle pedestrian bridges
- hard and soft landscape proposals
- demolition of the existing coach depot (resulting in a net loss of floor space and vehicle movements); and

Partners: Francis Connolly *KStG FCIWEM MIFireE MCIArb FIHT FConsE* Brian Balchin *DIC CEng FICE FConsE* Nigel Brown *DipLing BSc DIC MSc CEng MICE MILT* John Rushton *BEng MSc CEng MICE MIStructE* Keith Mitchell *BSc MSc MIHT MILT* David Atherton *BSc MSc CEng CGeol FICE FIMM FCIWEM MinstWM FGS* Iain Gibb *BSc CEng MICE FConsE* Malcolm Cleaver *BSc CEng MICE* Stephen Capel-Davies *BSc CEng FICE MCIWEM* Anthony Russell *BTp MSc MRTPI MIHT* Richard Puttock *BSc MSc FGS* Mark Anderson-Hammersley *Eur Ing BEng MA CEng MICE MIHT MIMgt* Robert Brickwood *BEng CEng MIStructE* Benjamin Mitchell *BSc CEng MICE MCIWEM* Richard Swinden *BSc CEng MICE MIHT* Scott Witchalls *MSc MCIT MIHT MILT* ***Regional Director:*** Peter Ralph *IEng AMICE MIHT*
Divisional Director of Civil Engineering: Peter Chong *BSc MSc CEng MICE FIStructE MIEM MIHT PEng*
Divisional Director of Structural Engineering: Victor Dunham *CEng FIStructE PEng* ***Divisional Director of Transport:*** Bob Pinkett *BA FCIT FILT MIHT*
Practice Manager: William Booth FCA ***Senior Consultant:*** Richard Dawson *BSc MSc CEng FICE FCIWEM FConsE*

Senior Associates: Brian Allen *BSc CEng MICE MIOA* Timothy Allen *MIHT MILT* Kenneth Amblin *BSc CEng MICE MIStructE MAPS* Len Arnot *BSc CEng MICE FCIWEM MinstWM AEARA* Bruce Blaine *BScEng MSc CEng MICE MCIWEM* Gregory Callaghan *BSc MRTPI MIHT* Simon Davis *BSc MSc MCIT MIHT MILT* Clive Edmonds *PhD MSc BSc DIC FGS CGeol* Alan Fry *BSc MSc CEng MICE MIHT* Henk Galens *Ing BSc MIHT* David Green *BSc MEng CEng MICE FIHT MCIT MILT* David Hunter *TD BA DipTE CEng MICE FIHT MIOA* David Povey *CEng MIStructE FFB* Tony Sheach *BEng CEng MICE MCIT MILT MIHT* Paul Swindale *BSc CEng MICE MIHT MCIWEM*
Associates: Pat Chillingworth *BA FCIWEM MRTPI CGeol FIQ FGS* Tony Davies *IEng (AMICE)* David Dewar *BEng MSc MCIT MILT MIHT* Brian Elliot *ACIBSE MASHRAE* Malcolm Fillingham *BEng CEng MCIWEM* Zico Fonseca *IEng FIWE MIAT MCIWEM MCMI DMS* Robert Groves *BTech IEng FIWE MIHT* James Heame *BSc CEng MICE MIStructE* Peter Hollely *BSc CEng MICE FIHT* Claire Holman *PhD, BSc* Ricky House *BEng CEng MICE MCIWEM* Paul Jenkin *BEng MSc CEng MCIWEM* Ian King *BSc CEng MICE MIHT* Paul Lacey *BSc MICE FIHT DipTE CEng* Vaughn Lawfull *BSc CEng MICE* Robert Parker *BA MTD MCIT MIHT DMS* Michael Parkinson *BSc MIHT* Bernard Payne *BTech* Alan Povey *BSc CEng MICE MIStructE*
John Pulsford *BSc DIS MBA CEng MICE MCIWEM MCMI* Kevin Riley *BSc MSc MCIT MILT* Andrew Robertson *BSc CEng MICE MCIWEM* Peter Spencer *BSc MCIT MIHT MILT* Richard Thomas *BSc MSc ARSM CGeol FGS* Antony Wake *BSc CEng MICE MIHT*
Richard Wheeler *BSc CEng MIEE* Matthew Whiston *BA MSc CIT*

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- relocation of the existing Thames Valley Police compound and Highway Agency Maintenance depot (requiring construction of replacement facilities and associated car parking).

In addition to the proposals relating to the above application, it is likely that the existing slip roads will be extended. These works would be within the existing highway boundary and therefore do not fall under this application. However, in order to ensure that a worse case scenario is assessed, these proposals have been fully addressed in the supporting Environmental Impact assessment

Full Planning Application

The planning application deals with two different types of development – engineering operations to reconstruct M4 Junction 11 and consequent redevelopment of adjacent sites.

The planning application comprises (5No copies enclosed) :

- Planning Application Forms Part 1 & 2
- Certificate C/Agricultural Holdings.
- Planning Application Drawings (as listed below)

Drawing Title	Drawing No.	Rev
Location Plan	11090/PA/001	-
Planning Application Site Plan	11090/PA/002	D
Longitudinal Sections. Sheet 1 of 2	11090/PA/003	B
Longitudinal Sections. Sheet 2 of 2	11090/PA/004	B
Proposed Bus, Pedestrian & Cycle Facilities	11090/PA/005	B
Not Used	11090/PA/006	
Motorway Maintenance Depot. Plan	11090/PA/007	A
Motorway Maintenance Depot. Salt Barn	11090/PA/008	-
Police Station Compound	11090/PA/009	-
Police Station Compound, Garage/Workshop	2357 Drawing 2	-
Police Station Compound, Covered Area No1	2357 Drawing 3	-
Police Station Compound, Covered Area No2	2357 Drawing 4	-
Overall Landscape Master plan	04.4104.01.01	A2
Landscape Master plan – Northern section 1/5	04.4104.01.02	A2
Landscape Master plan – Western section 2/5	04.4104.01.03	A2
Landscape Master plan – Central section 3/5	04.4104.01.04	A2
Landscape Master plan – Eastern section 3/5	04.4104.01.05	A2
Landscape Master plan – Southern section 5/5	04.4104.01.06	A2
Landscape Sections	04.4104.01.07	A2
Landscape Sections	04.4104.01.08	A2

- Fee in the sum of £5,280 (Note; this fee is payable to RBC only and will be paid by internal transfer)

Supporting Information

The application is also accompanied by the following supporting information:

- An Environmental Statement undertaken in accordance with the Town and Country Planning (Environmental Impact Assessment (EIA)) (England and Wales) Regulations 1999 (SI 99/293), in 3 Volumes.

  Volume 1 summarises the main environmental issues arising from Volume 2

  Volume 2 Technical Specialist Reports

  Volume 3 Non-Technical Summary
- Flood Risk Assessment Report in 2 Volumes

  Volume 1 Main text

  Volume 2 Drawings
- Traffic Assessment Report
- Summary of Engineering Detail Report

Please do not hesitate to contact Peter Brett Associates if you require any further information. All queries should be addressed to Rob Groves in the first instance.

Yours faithfully

pp.

Rob Groves
For and on behalf of
PETER BRETT ASSOCIATES

A33 TO READING

READING INTERNATIONAL BUSINESS PARK

Service box to be relocated

MAINTENANCE COMPOUND

EXISTING FIRE S

Existing mound infill planting

SALT BARN

FOR CONTINUATION REFER TO 04-4104.01.04

To be read in conjunction with Peter Brett's Associates drawings

ORNAMENTAL PLANTING

TREES

AgC	Acer platanoides 'Columnare'	30-35cm GIRTH
Ae	Acer campestre	12-14cm GIRTH
Ag	Alnus glutinosa	12-14cm GIRTH
Cf	Carpinus betulus 'Fastigiata'	35-40cm GIRTH
Po	Picea omorika (or similar approved)	2.75-3.0 metre height

SHRUBS AND GROUND COVER (3L to 5L POT SIZE)

Bergenia cordifolia 'Silberlicht'
Buxus spp.(pyramid shape)
Clematis montana
Cornus alba 'Sibirica'
Cornus sanguinea
Cotinus coggygria
Euonymus europaeus
Euonymus fortunei Radicans
Geranium pratense
Lamium maculatum album
Laurus nobilis
Lonicera periclymenum Belgica
Phormium tenax
Phormium tenax 'Variegatum'
Photinia x fraseri 'Red Robin'
Rosa canabrigensis
Rosa White Max Graf
Salix alba 'Britzensis'
Symphytum ibericum
Symphoricarpus x chenaultii Hancock
Thymus sepyllum

HEDGING (12L POT SIZE)

Buxus sempervirens
Crataegus monogyna
Elaeagnus x ebbingei
Ligustrum ovalifolium 'Aureum'
Prunus laucerasus 'Etna'

BULBS

Crocosmia 'Lucifer'
Narcissus 'February Gold'
Narcissus 'Tete a Tete'

WOODLAND MATRIX - GENERIC

Trees 10% 14-16cm GIRTH
Acer campestre
Fraxinus excelsior
Prunus avium
Sorbus aria
Tilia cordata

Feathers 20% 200-250cm HEIGHT
Fraxinus excelsior
Prunus avium
Sorbus aucuparia

Transplants 70%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Euonymus europaeaus
Ilex aquifolium
Prunus avium
Prunus spinosa
Quercus robur
Rosa canina

WETLAND 1: AQUATIC/MARGINAL PLANTING

Iris pseudacurus
Juncus effusus (reed beds)
Juncus inflexus (reed beds)
Nuphar lutea
Phragmites australis
Potomageton crispus
Ranunculus aquatilis

DAMP WOODLAND: WETLANDS 2 AND 3 ADJACENT TO WATER COURSES AND WETLAND AREAS

Feathers 10%, Transplants 90%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Quercus robur
Salix caprea
Salix cinerea
Viburnum opulus

WETLANDS 2 AND 3: DAMP GRASSLAND

Seed mix, to include the following species, sown at 5g/m2
Agrostis canina spp. canina
Calitha palustris
Filipendula ulmaira
Juncus effusus
Lychnis flos-cuculi
Mentha aquatilis
Myosotis scorpioides

PONDS (WETLANDS 2 AND 3): AQUATIC PLANTING

Glyceria fluitans
Potomageton crispus
Ranunculus aquatilis

WILDFLOWER GRASSLAND

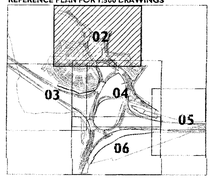
Landlife 'Wildflower Meadow and Grass seed' mix sown at 5g/m2

Mixture Composition	By No. Of Seed
Wild Carrot	6%
Red Campion	12%
Meadow Buttercup	14%
Ox-eye Daisy	44%
Lesser Knapweed	6%
White Campion	9%
Ribwort Plantain	2%
Yellow Rattle	1%
Musk Mallow	1%
Cowslip	5%

LEGEND

- Existing trees & vegetation to be retained
- Proposed woodland matrix planting. Generic, unless otherwise stated
- Proposed ornamental planting and specimen shrubs
- Low ground cover
- Proposed semi-mature tree
- Proposed coniferous tree
- Proposed hedge
- Decorative large boulders with feature lighting
- Loose gravel/sand
- Seeded areas. Turfed & pegged on earth sculptures
- Proposed damp grassland
- Proposed reed beds
- Seasonal wetland pond
- Wildflower grassland
- Resin bound gravel. Buff colour
- Asphalt footpath
- Concrete setts: silver grey
- Gantry sign
- Visibility splay
- Planning boundary
- Noise barrier: 2.0m height

REFERENCE PLAN FOR 1:500 DRAWINGS



Rev	Date	By	Chkd	Description
A2	15.07.02	AMW		General amendments made in response to comments received
A1	11.07.02	AMW		Issued for comment

Client: Reading Borough Council

Project: M4 Junction 11 Improvements

Drawing Title: Landscape Masterplan Sheet 1 of 5

Drawing Status: For Comment

Scale	Date	Drawn
1:500 @ A0	June 02	AMW

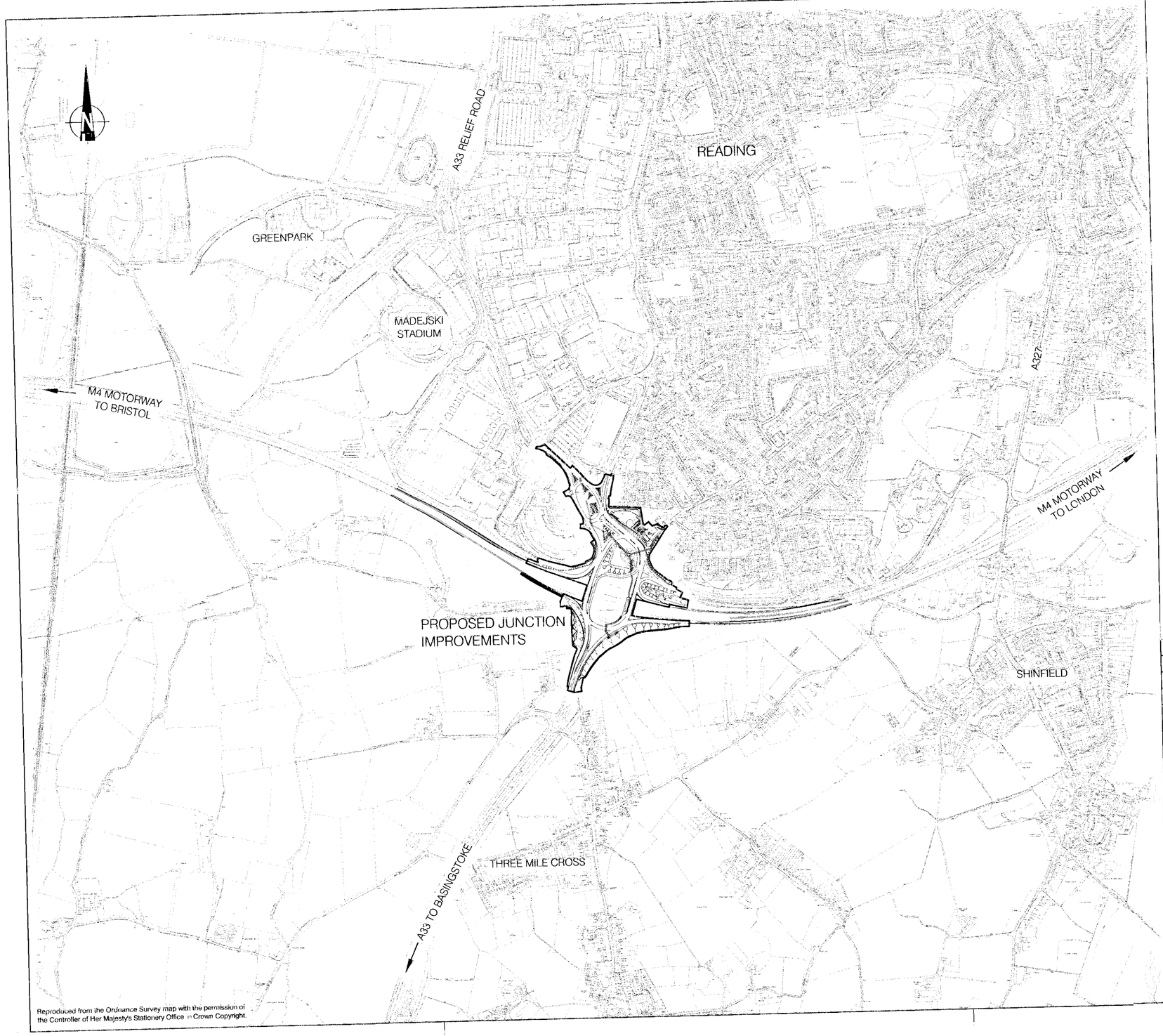
Drawing No. 04-4104.01.02 A2 — Revision: — Approved:

Reading Borough Council

DEREK LOVEJOY PARTNERSHIP

LAND PLANNING AND DESIGN

1 Fore Street Bermingham B2 5JT Tel +44 (0) 121 707 7... Fax +44 (0) 121 707 7...
Birmingham London Edinburgh



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Mark	Revision	Drawn	Date	Chkd
C	Planning Boundary amended	D. Neal	Aug '02	
B	Scheme updated & Planning boundary amended to suit	D. Neal	July '02	
A	Planning boundary amended	D. Neal	May '02	

Utilities Note

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Drawing Issue Status

INFORMATION

M4 JUNCTION 11 IMPROVEMENTS
LOCATION PLAN

Client

Reading Borough Council Transport Strategy

pba peter brett associates CONSULTING ENGINEERS

16 WESTCOTE ROAD READING BERKSHIRE RG30 2DE TEL 0118 950 0761 FAX 0118 959 7498
email: reading@pba.co.uk Internet: www.pba.co.uk

Date	Drawn by	Drawing Number	Revision
May '02	D. Neal	11090/PA/001	C
A2 Scale 1: 10000	Checked by		

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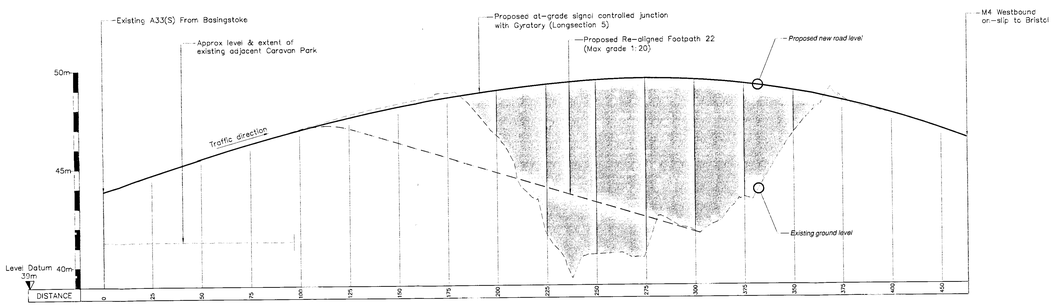
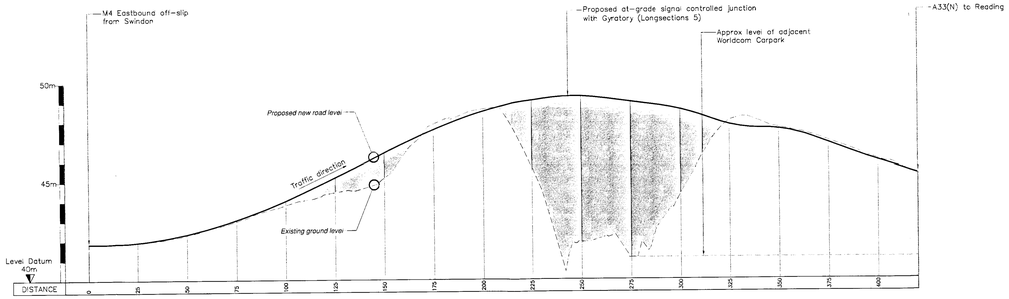


LONG SECTION No.1
A33 SOUTH TO M4 WEST

Scale: 1:1000 Hor
1:100 Ver



LONG SECTION No.2
M4 WEST TO A33(N)

Scale: 1:1000 Hor
1:100 Ver

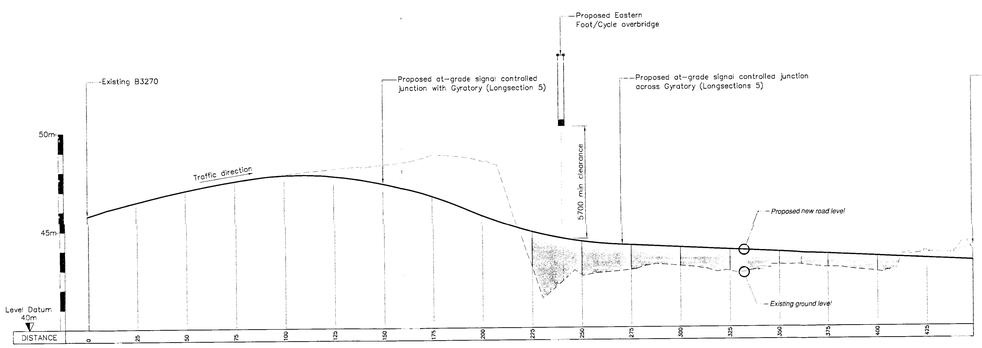
Key

CUTTING
Area where proposed new road is below existing ground level

EMBANKMENT
Area where proposed new road is above existing ground level

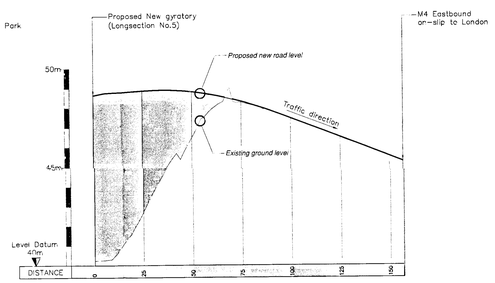
Notes:

1. Each section is colour coded for location identification.
2. Distance markers on sections relate to these on Location plan.
3. To be read in conjunction with Drg No.11090/PA/003.



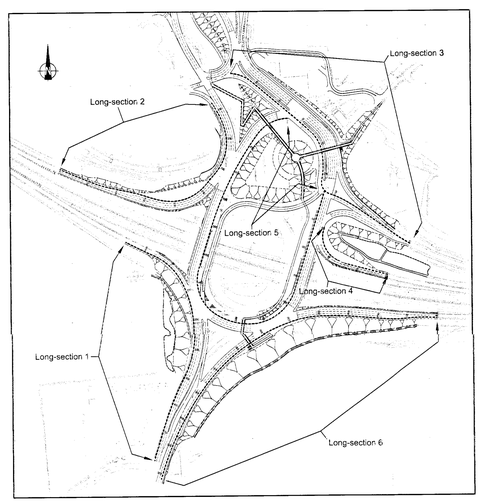
LONG SECTION No.3
B3270 TO A33(N)

Scale: 1:1000 Hor
1:100 Ver



LONG SECTION No.4
M4 EASTBOUND ON-SLIP

Scale: 1:1000 Hor
1:100 Ver



LOCATION PLAN

n.t.s

Mark	Revision	Drawn	Date	Chkd
B	general amendments	D. Neal	July '02	
A	General amendments	D. Neal	July '02	

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Drawing Issue Status

INFORMATION

M4 JUNCTION 11 IMPROVEMENTS
Longitudinal Sections
Sheet 1 of 2

Client

Reading Borough Council Transport Strategy

peter brett associates
CONSULTING ENGINEERS

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Date	Drawn by	Drawing Number	Revision
May '02	D. Neal	11090/PA/003	B
A1 Scale: As shown	Checked by		

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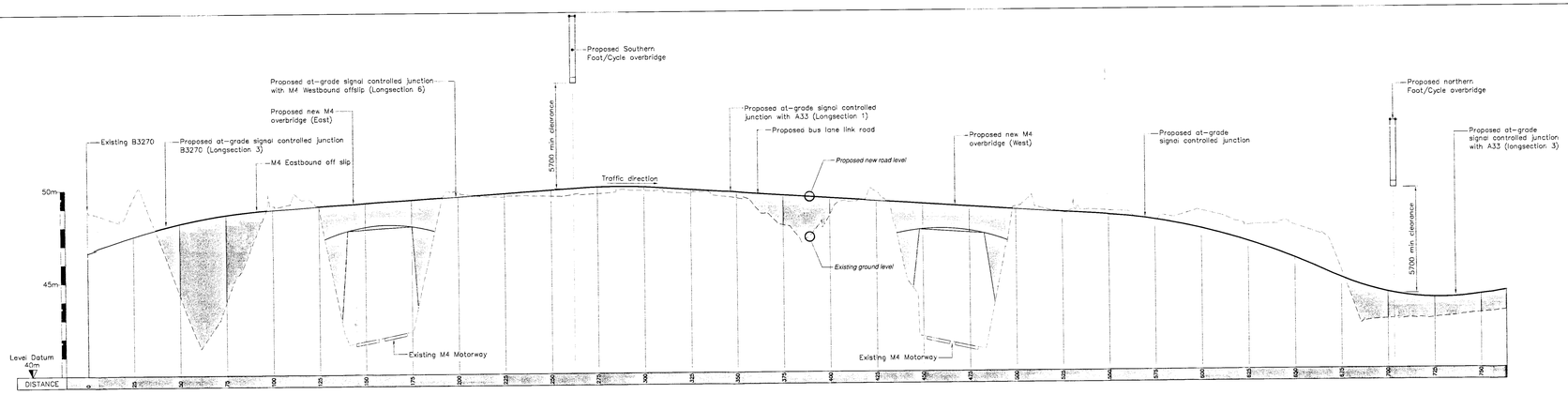
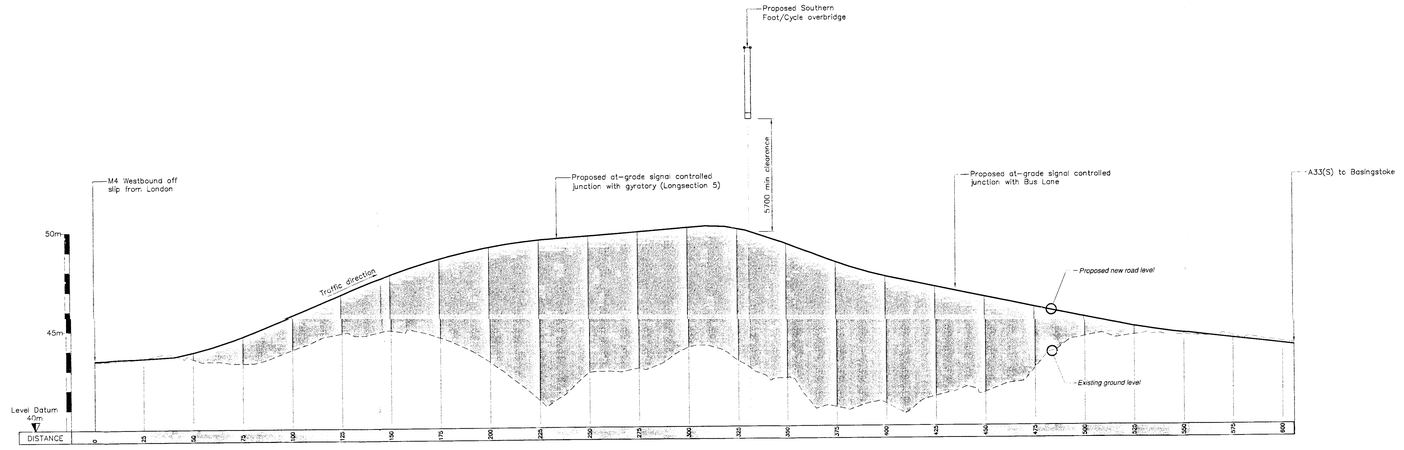


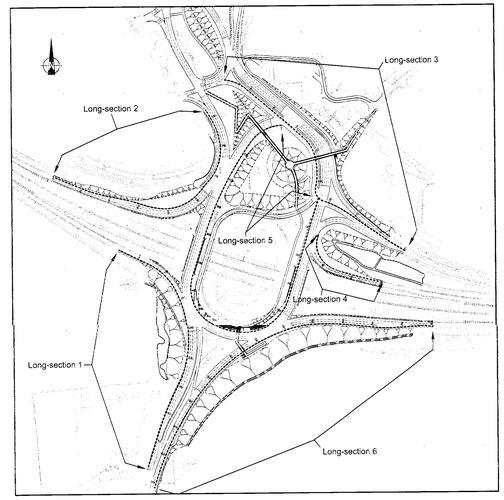
LONG SECTION No.5
MAIN GYRATORY

Scale 1:1000 Hor
1:100 Ver



LONG SECTION No.6
M4 WESTBOUND TO A33(S)

Scale 1:1000 Hor
1:100 Ver



LOCATION PLAN
n.t.s

Key:

CUTTING
Area where proposed new road is below existing ground level

EMBANKMENT
Area where proposed new road is above existing ground level

Notes:

1. Each section is colour coded for location identification.
2. Distance markers on sections relate to these on Location plan.
3. To be read in conjunction with Drg No.11090/PA/003.

Mark	Revision	Drawn	Date	Chkd
B	General amendments	D. Neal	July 02	
A	General amendments	D. Neal	July 02	

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Drawing Issue Status
INFORMATION

M4 JUNCTION 11 IMPROVEMENTS
Longitudinal Sections
Sheet 2 of 2

Client:
Reading BOROUGH COUNCIL TRANSPORT STRATEGY

pba peter brett associates CONSULTING ENGINEERS
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Date	Drawn by	Drawing Number	Revision
May 02	D. Neal	11090/PA/004	B
A1 Scale: As shown	Checked by		

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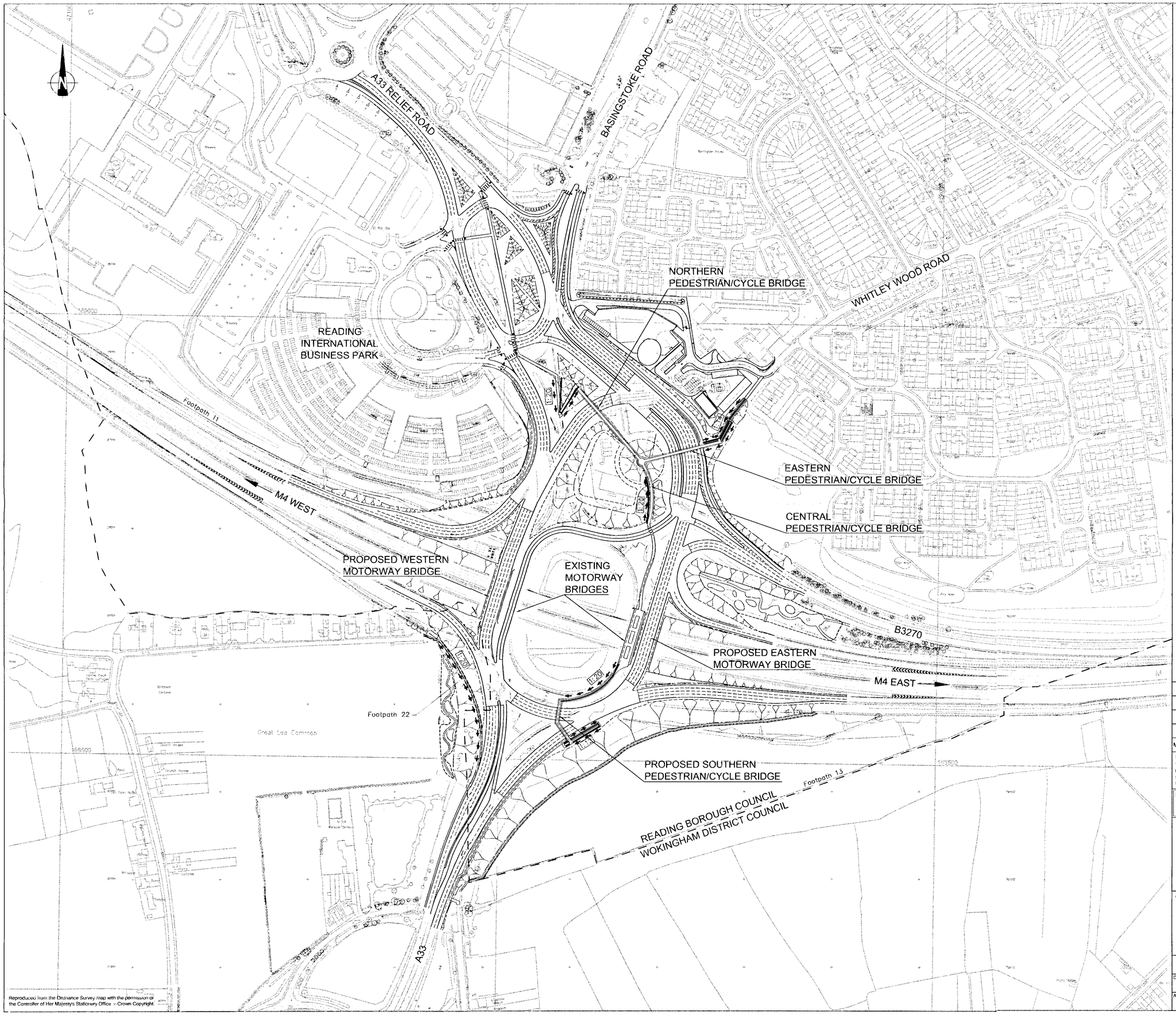

Key

- Bus lane
- Footway and/or shared cycleway
- 1:20 Shared footway/cycleway with gradient shown (arrows point up slope)
- Public Footpath
- Existing Public Footpath abandoned
- Re-aligned Public Footpath
- Footbridge
- At Grade Signalised Crossing
- At Grade Non-Signalised Crossing
- Local Authority Boundary

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Mark	Revision	Drawn	Date	Chkd
D	Cycleways amended, additional fire station entrance added	SJG	02.10.02	
C	General amendments	D. Neal	Aug '02	
B	Scheme amended	D. Neal	July '02	
A	General amendments. Footpaths revised. Slope direction & gradient added	D. Neal	July '02	

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Drawing Issue Status

INFORMATION

M4 JUNCTION 11 IMPROVEMENTS

Proposed Bus, Pedestrian & Cycle Facilities

Client

Reading BOROUGH COUNCIL TRANSPORT STRATEGY

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Date	Drawn by	Drawing Number	Revision
May '02	D. Neal	11090/PA/005	D
A1 Scale: 1: 2000	Checked by		

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No left turn sign, except Emergency Services & essential maintenance vehicles

Entry/Exit for essential maintenance vehicles & emergency services vehicles

Existing earth bund retained and reprofiled in part

Entry/Exit for essential maintenance vehicle only

2m high noise barrier located on top of existing earth bund

Existing trees retained

No Entry signs except emergency services & maintenance vehicles

Entrance/Exit for all other vehicles for maintenance compound

Barrier Controlled (to be agreed)

FIRE STATION

(15 Parking spaces)

MAINTENANCE COMPOUND

Fencing (2.4m high)

PROPOSED JUNCTION 11 GYRATORY

Entrance

SALT BARN

POLICE COMPOUND

Key:

- Proposed Salt Barn
- Hardstanding area
- Landscape areas
- Existing Horseman Coach Buildings to be demolished
- External lighting (3m high pole mounted floodlight)
- Proposed Noise Barrier

Note:

1, Refer to Drg No.11090/PA/008 for details of proposed Salt Barn

Mark	Revision	Drawn	Date	Chkd
B	Minor amendments	D. Neal	Aug '02	
A	General amendments	D. Neal	July 02	

Utilities Note

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Drawing Issue Status

DRAFT

M4 JUNCTION 11 IMPROVEMENTS
MOTORWAY MAINTENANCE DEPOT PLANS

Client

Reading Borough Council Transport Strategy

peter brett associates
CONSULTING ENGINEERS

16 WESTCOTE ROAD READING BERKSHIRE RG30 2DE TEL 0118 950 0761 FAX 0118 959 7498
email: reading@pba.co.uk Internet: www.pba.co.uk

Date	Drawn by	Drawing Number	Revision
June '02	D. Neal	11090/PA/007	B
A1 Scale 1: 250	Checked by		

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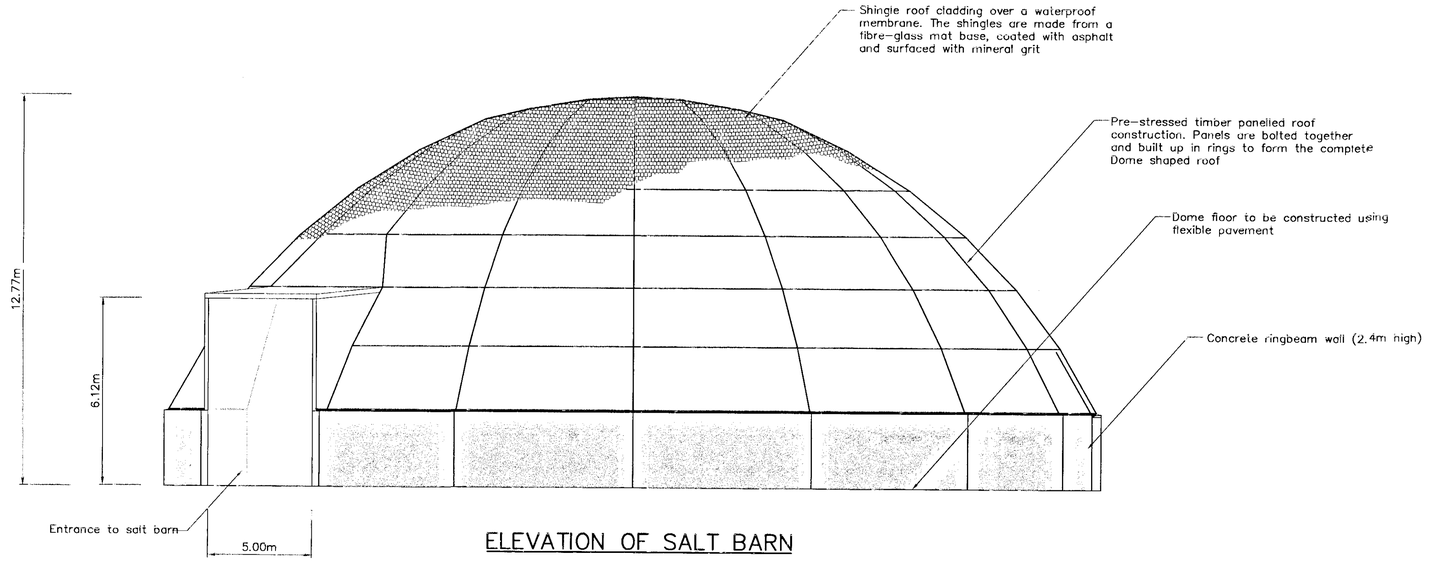
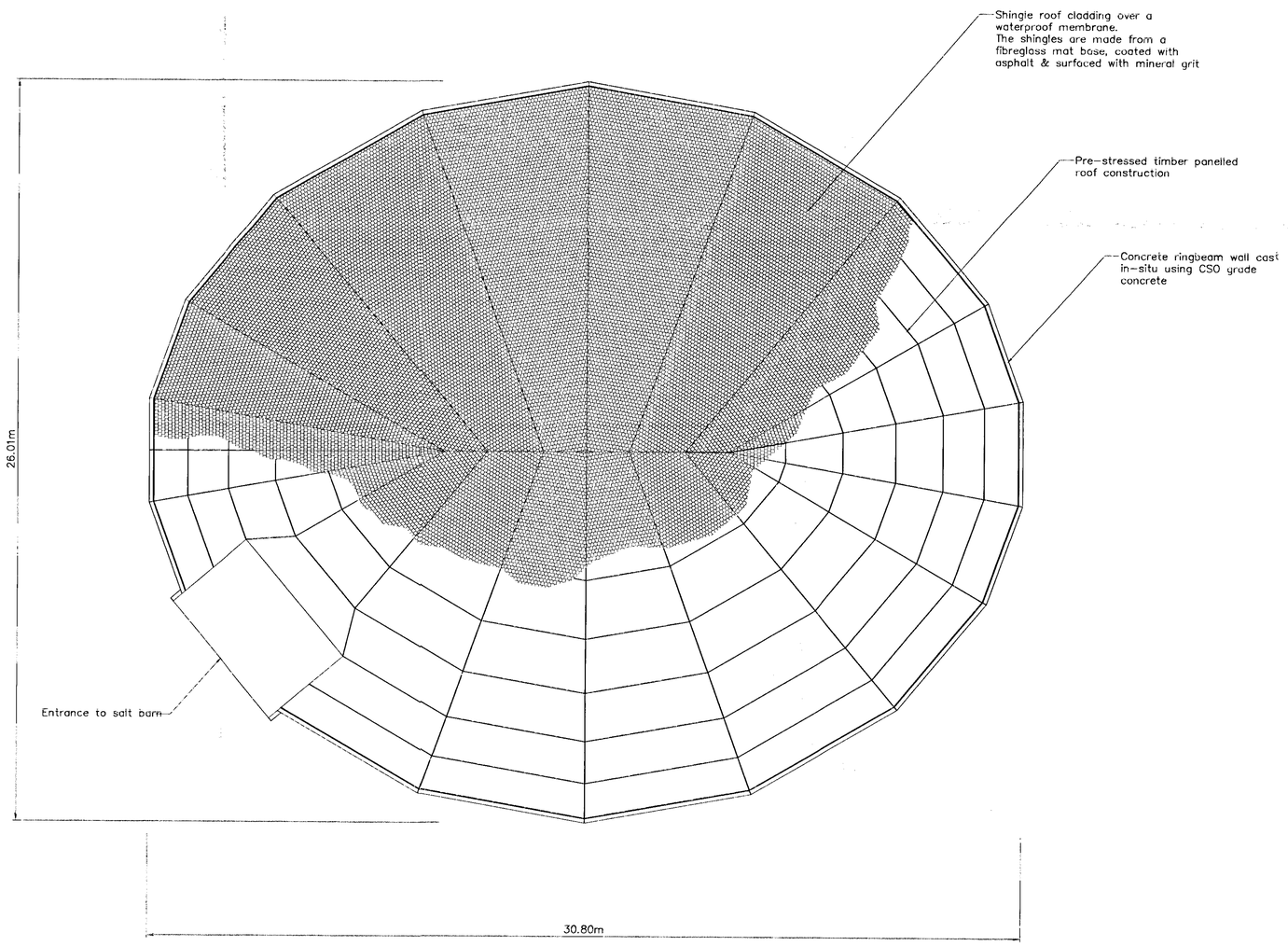


ELEVATION OF SALT BARN



PLAN OF SALT BARN

Note:

1. Refer to Drg No.11090/PA/007 for details of depot layout

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Mark	Revision	Drawn	Date	Chkd

Utilities Note

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Drawing Issue Status

DRAFT

M4 JUNCTION 11 IMPROVEMENTS
HIGHWAY MAINTENANCE DEPOT
SALT BARN

Client

Reading BOROUGH COUNCIL

pba peter brett associates CONSULTING ENGINEERS

16 WESTCOTE ROAD READING BERKSHIRE RG30 2DE TEL 0118 950 0761 FAX 0118 959 7498
email: reading@pba.co.uk Internet: www.pba.co.uk

Date	Drawn by	Drawing Number	Revision
June '02	D. Neal	11090/PA/008	-
A1 Scale: 1:100	Checked by		

J:\????\????\???

MAINTENANCE COMPOUND

Training Centre

Fire Station

EXISTING FIRE STATION

Salt Barn

Brickwall entrance as existing

Footpath

WHITLEY WOOD ROAD

Covered Area No.2 (Incident Van)

Covered Area No.1 (Open Garage/Jet Wash)

Pavement widening

POLICE COMPOUND

Fencing (2.4m high)

Garage/Store

PROPOSED JUNCTION 11 GYRATORY

Main Building (Existing)

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Key:

- Proposed Salt Barn
- Hardstanding area
- Landscape areas
- Existing Horseman Coach Buildings to be demolished
- Proposed Noise Barrier

Mark	Revision	Drawn	Date	Chkd
A	Additional Fire Station entrance added	SJG	02.10.02	

Utilities Note

The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake his own investigation where the presence of any existing sewers, services, plant or apparatus may affect his operations.

Drawing issue Status

DRAFT

M4 JUNCTION 11 IMPROVEMENTS
POLICE STATION COMPOUND

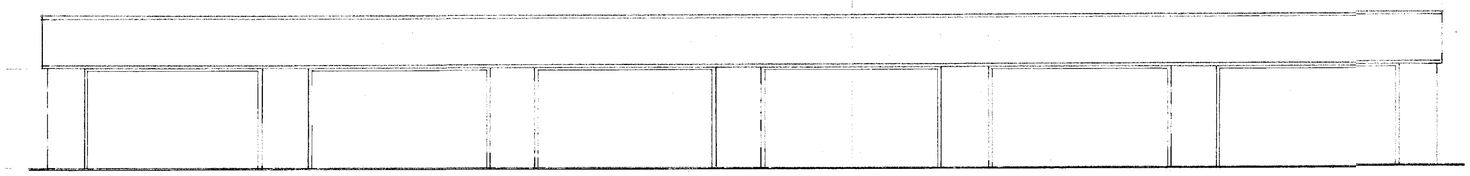
Client

Reading Borough Council Transport Strategy

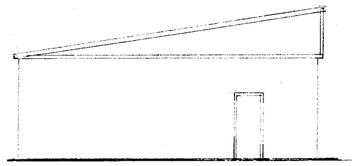
peter brett associates
CONSULTING ENGINEERS

16 WESTCOTE ROAD READING BERKSHIRE RG30 2DE TEL 0118 950 0761 FAX 0118 959 7498
email: reading@pba.co.uk internet: www.pba.co.uk

Date	Drawn by	Drawing Number	Revision
July '02	D. Neal	11090/PA/009	A
A1 Scale 1: 250	Checked by		



Front Elevation



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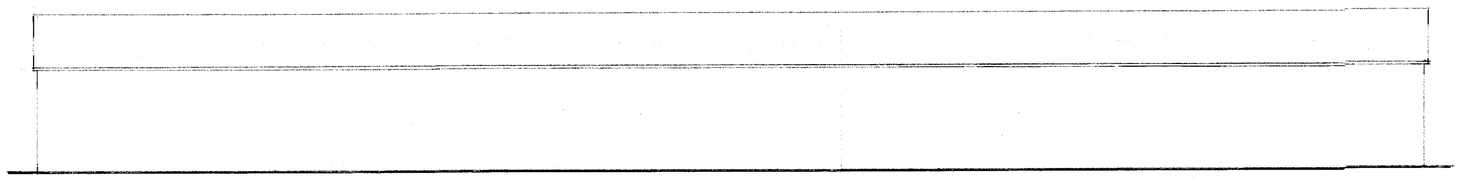
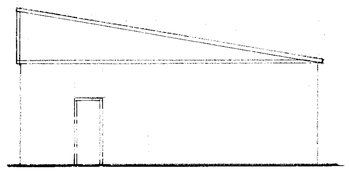
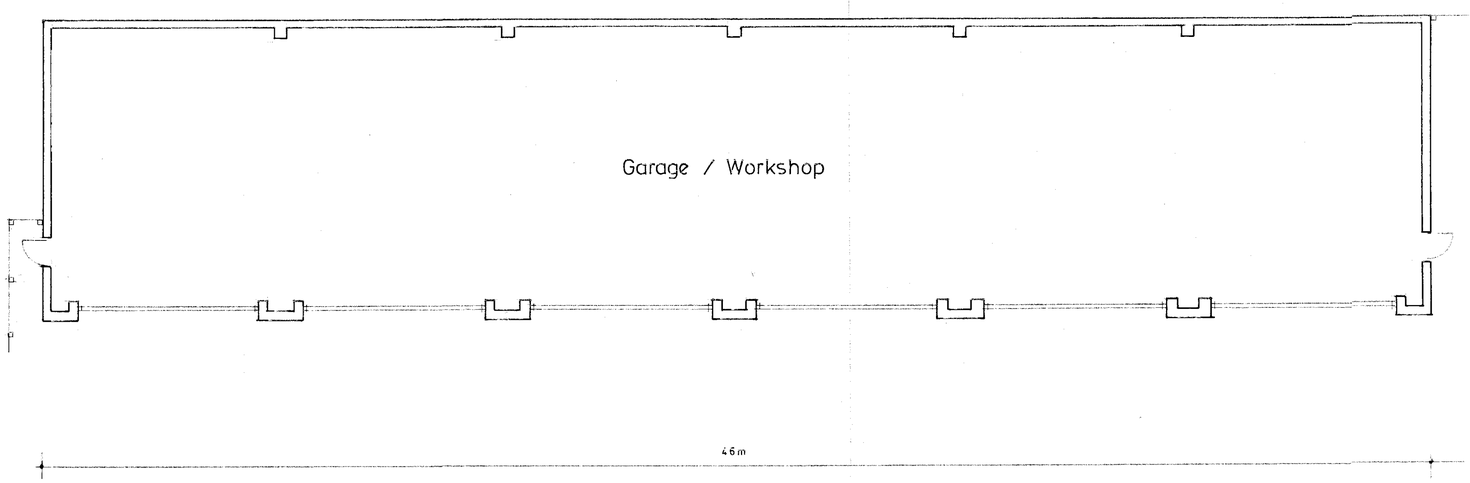


Rear Elevation



Side Elevation



Plan

PROJECT
M4 Junction 11
Police Station Compound

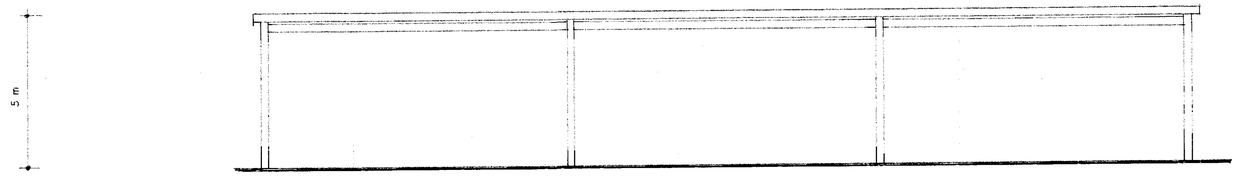
TITLE
Garage / Workshop

Scale	1:100
Drawn	D J S
Date	July 2002

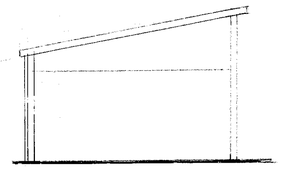
JOB NO. 2357

DRG. NO. 2

CHAMBERLAIN SYRAD ARCHITECTURE
Stook House, 66 Tilehurst Road, Reading RG30 2JH Tel. 0118 939 4554



Front Elevation



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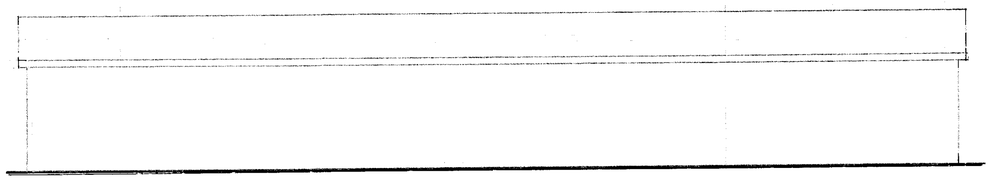
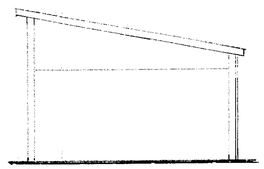


Rear Elevation



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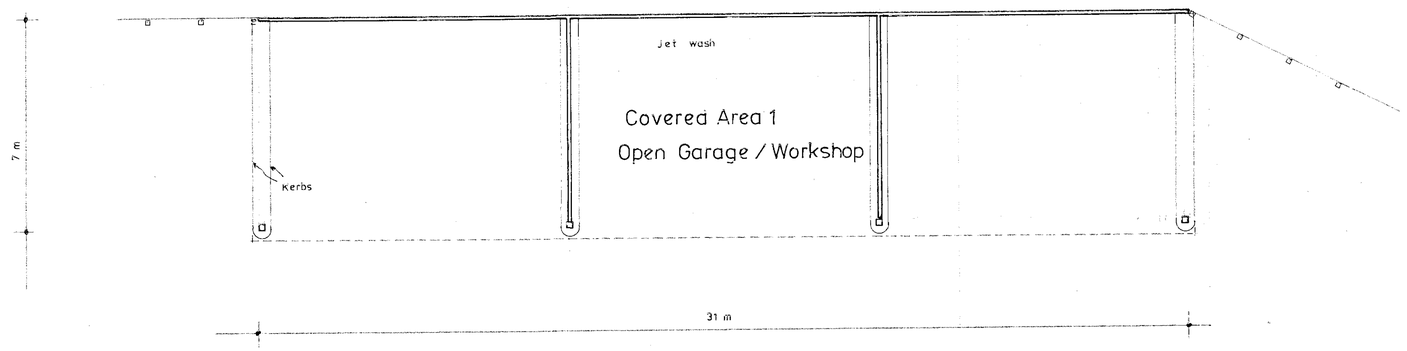
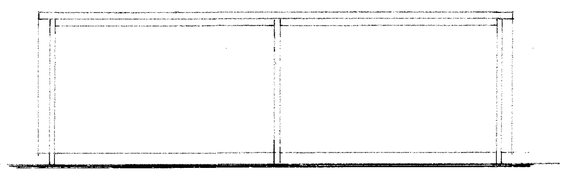


Plan

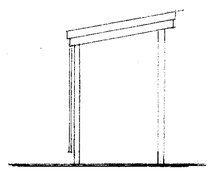
PROJECT	M4 Junction 11 Police Station Compound
TITLE	Covered Area No.1 Open Garage/Workshop
Scale	1:100
Drawn	D J S
Date	July 2002
JOB NO.	2357
DRG. NO.	3

CHAMBERLAIN SYRAD ARCHITECTURE
Snook House, 66 Tilehurst Road, Reading RG30 2JH Tel. 0118 939 4554

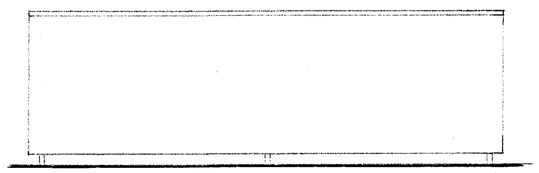




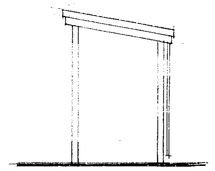
Front Elevation



Side Elevation

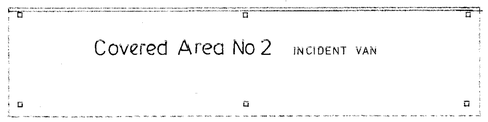


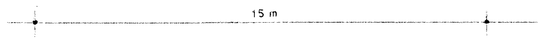
Rear Elevation



Side Elevation







Plan

PROJECT
M4 Junction 11
Police Station Compound

TITLE
Covered Area No. 2
for Incident Van

Scale	1:100
Drawn	D J S
Date	July 2002

JOB NO. 2357

DRG. NO. 4

CHAMBERLAIN SYRAD ARCHITECTURE
Snook House, 66 Tilehurst Road, Reading RG30 2JH Tel. 0118 939 4334

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LEGEND

- Existing trees & vegetation to be retained
- Proposed woodland matrix planting. Generic unless otherwise stated
- Proposed ornamental planting and specimen shrubs
- Low ground cover
- Proposed semi-mature tree
- Proposed coniferous tree
- Proposed hedge
- Decorative large boulders with feature lighting
- Loose gravel/sand
- Seeded areas Turfed & pegged on earth sculptures
- Proposed damp grassland
- Proposed reed beds
- Seasonal wetland pond
- Wildflower grassland
- Resin bound gravel- Buff colour
- Asphalt footpath
- Concrette setts - silver grey
- Gantry sign
- Visibility splay
- Planning boundary
- Noise barrier 2.0m height.

A33 TO READING

READING INTERNATIONAL BUSINESS PARK

MAINTENANCE COMPOUND

EXISTING FIRE STATION

POLICE COMPOUND

WETLAND 1

WETLAND 2

WETLAND 3

GREEN BRIDGE
Addstone finish with bands of concrete setts. Ornate railings to screen the motorway. Raised planters with ornamental shrubs and specimen plants.

M4 MOTORWAY WESTBOUND

M4 MOTORWAY

M4 MOTORWAY EASTBOUND

GREAT LEA COMMON

CARAVAN PARK

Great Lea Common

Pond

READING BOROUGH COUNCIL

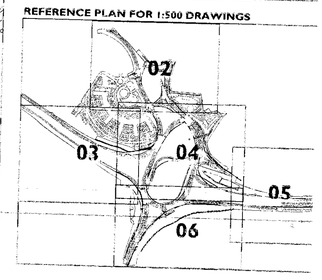
WOKINGHAM DISTRICT COUNCIL

Existing bridleway

Existing footpath (10 hours)

Remedial works to be carried out as necessary to marry in with existing levels and seeded.

REFERENCE PLAN FOR 1:500 DRAWINGS



Rev	Date	By	Notes
A2	19.07.02	AMW	General amendments made in line with comments received
A1	11.07.02	AMW	Issued for comment

Client
Reading Borough Council

Project
M4 Junction 11 Improvements

Drawing Title
Overall Landscape Masterplan

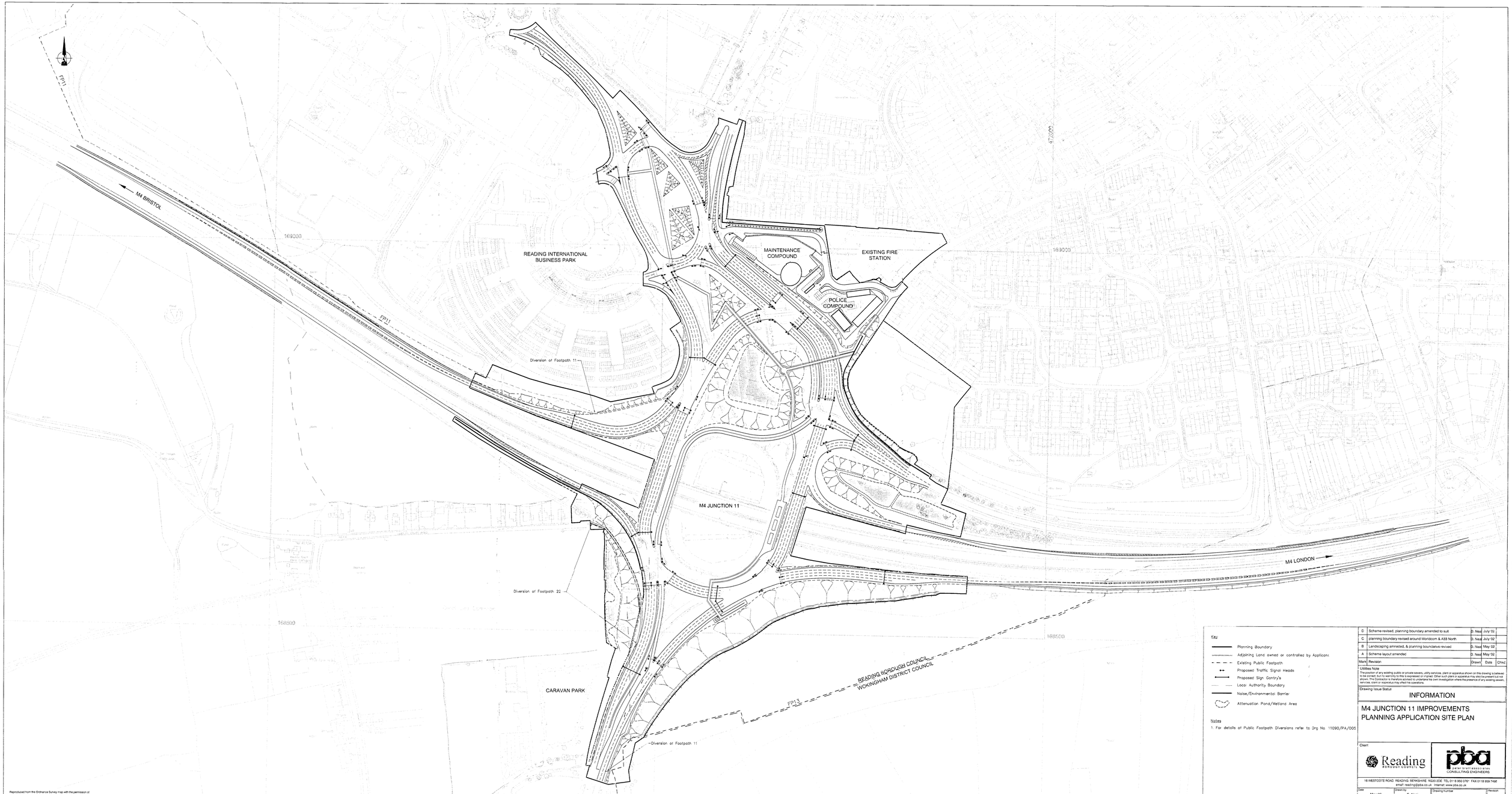
Drawing Status
For Comment

Scale	Date	Drawn
1:1000 @ A0	june 02	AMW

Drawing No. | Checked | Approved
04-4104.01.01 A2

Reading BOROUGH COUNCIL

DEREK LOVEJOY PARTNERSHIP
LAND PLANNING AND DESIGN
1 Fore Street Birmingham B2 5BR Tel 0121 329 7676 Fax 0121 329 76
Birmingham London Edinburgh



Key

- Planning Boundary
- Adjoining Land owned or controlled by Applicant
- Existing Public Footpath
- Proposed Traffic Signal Heads
- Proposed Sign Gantry's
- Local Authority Boundary
- Noise/Environmental Barrier
- Attenuation Pond/Wetland Area

Notes

1. For details of Public Footpath Diversions refer to Drg No. 11090/PA/005

Mark	Revision	Drawn	Date	Chkd
D	Scheme revised, planning boundary amended to suit	D. Neal	July 02	
C	planning boundary revised around Wordsworth & A33 North	D. Neal	July 02	
B	Landscaping amended, & planning boundaries revised	D. Neal	May 02	
A	Scheme layout amended	D. Neal	May 02	

Utilities Note
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Drawing Issue Status: INFORMATION

M4 JUNCTION 11 IMPROVEMENTS
PLANNING APPLICATION SITE PLAN

Client: Reading Borough Council

peter brett associates
CONSULTING ENGINEERS
16 WESTCOTE ROAD READING BERKSHIRE RG30 2DE TEL 0118 950 0761 FAX 0118 959 7498
email: reading@pba.co.uk Internet: www.pba.co.uk

Date	Drawn by	Drawing number	Revision
May 02	C. Neal	11090/PA/002	D
1:1250	Checked by		

J:\11090\INRM - ICAD Drgs\Planning

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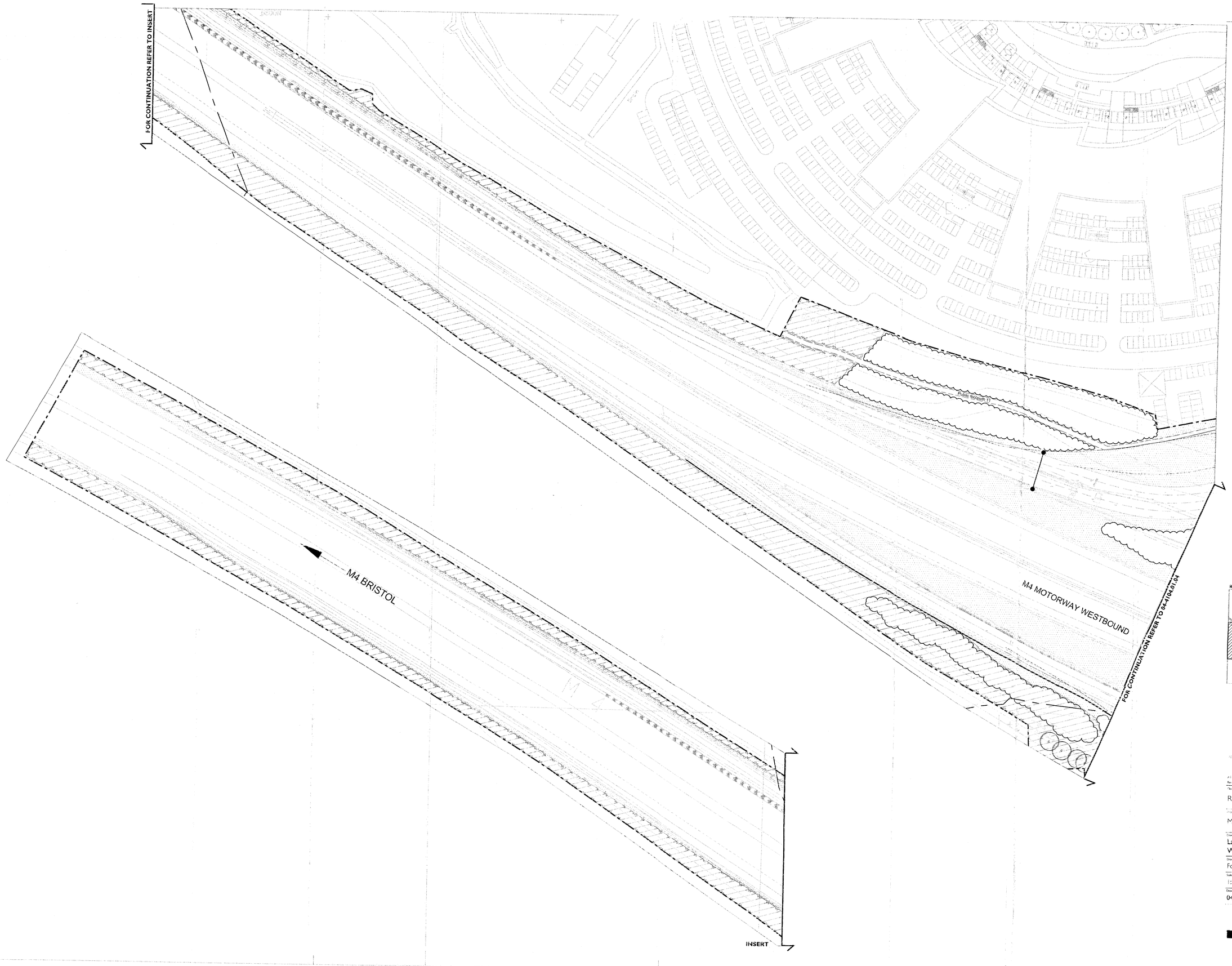


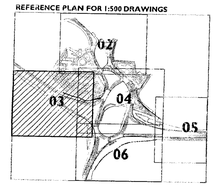
To be read in conjunction with Peter Brett's Associates drawings

LEGEND

- Existing trees & vegetation to be retained
- Proposed woodland matrix planting. Generic unless otherwise stated
- Seeded areas. Turfed & pegged on earth sculptures
- Wildflower grassland
- Gantry sign
- Visibility splay
- Planning boundary
- Noise barrier 2.0m height

Slip Road Improvements:
Existing planting to be retained where possible.
New profiled banking to be hydroseeded.

REFERENCE PLAN FOR 1:500 DRAWINGS



Rev	Date	By	Notes
A2	18/01/02	AMW	Generic amendments made in line with comments received
A1	11/12/02	AMW	Issued for comment

Client
Reading Borough Council

Project
M4 Junction 11 Improvements

Drawing Title
Landscape Masterplan - Sheet 2 of 5
West On Slip/East Bound Off Slip

Drawing Status
For Comment

Scale	Date	Drawn
1:500 @ A0	June 02	AMW

Drawing No.	Checked	Approved
04-4104.01.03 A2		

Reading BOROUGH COUNCIL

DEREK LOVEJOY PARTNERSHIP

LAND PLANNING AND DESIGN

1 Iron Street Birmingham B2 5DR T: (0121) 325 7670 F: (0121) 329 1107
Birmingham London Edinburgh

SALT BARN
CC
BB
B
C
CF
POLICE COMPOUND
EXISTING POLICE OFFICE
Northern cyclist pedestrian bridge
Stone wall 800mm high
Eastern cyclist pedestrian bridge
DD
D
E
WETLAND 1
Balancing Pond
Central cyclist pedestrian bridge
Aquatic/marginal planting
FF
F
Proposed Prunus laucerasus 'Etna' hedge to hide safety barrier
Bus lane
Existing culvert
EE
Groundwater outflow
WESTBOUND
M4 MOTORWAY
Existing culvert
G
GG
GREEN BRIDGE
Addastone finish with bands of concrete setts.
Ornate railings to screen the motorway.
Raised planters with ornamental shrubs and specimen plants
Dividing line between woodland generic mix to steep slopes, damp woodland mix to lower slopes and wetland areas.
Earth depression/ wetland/seasonal ponds
Pond
Pond
Earth depression
Pond
WETLAND 2
Culverts and dry balancing pond reprofiled.
Satellite ponds and depressions to be constructed to encourage invertebrates and wildlife.
Proposed woodland planting blocks to be generic mix or damp woodland mix on the lower slopes.
Log piles to be located within the woodland edge to encourage insects and invertebrates.
M4 MOTORWAY EASTBOUND
I
Proposed Prunus laucerasus 'Etna' hedge to hide safety barrier
Ag
Ag
Ag



HEDGING (12L POT SIZE)
Crataegus monogyna

WOODLAND MATRIX - GENERIC
Trees 10% 14-16cm GIRTH
Acer campestre
Fraxinus excelsior
Prunus avium
Sorbus aria
Tilia cordata

Feathers 20% 200-250cm HEIGHT
Fraxinus excelsior
Prunus avium
Sorbus aucuparia

Transplants 70%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Euonymus europaeus
Ilex aquifolium
Prunus avium
Prunus spinosa
Quercus robur
Rosa canina

DAMP WOODLAND: WETLANDS 2 AND 3 ADJACENT TO WATER COURSES AND WETLAND AREAS
Feathers 10%, Transplants 90%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Quercus robur
Salix caprea
Salix cinerea
Viburnum opulus

WETLANDS 2 AND 3: DAMP GRASSLAND
Seed mix, to include the following species, sown at 5g/m2
Agrostis canina spp. canina
Caltha palustris
Filipendula ulmaira
Juncus effusus
Lychnis flos-cuculi
Mentha aquatilis
Myosotis scorpiodes

PONDS (WETLANDS 2 AND 3): AQUATIC PLANTING
Glyceria fluitans
Potomageton crispus
Ranunculus aquatile

WILDFLOWER GRASSLAND
Landlife Wildflower Meadow and Grass seed mix sown at 5g/m2

Mixture Composition	By No. Of Seed
Wild Carrot	6%
Red Campion	12%
Meadow Buttercup	14%
Ox-eye Daisy	44%
Lesser Knapweed	6%
White Campion	9%
Ribwort Plantain	2%
Yellow Rattle	1%
Musk Mallow	1%
Cowslip	5%

Referred to, then and their approval obtained.

To be read in conjunction with Peter Brett's Associates drawings:

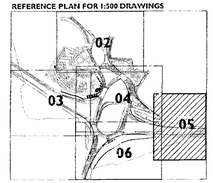
LEGEND

- Existing trees & vegetation to be retained
- Proposed woodland matrix planting. Generic unless otherwise stated
- Seeded areas: Turfed & pegged on earth sculptures
- Proposed hedge
- Proposed damp grassland
- Seasonal wetland pond
- Wildflower grassland
- Visibility splay
- Planning boundary

East Bound On Slip Road
Existing planting to be retained where possible. To reinstate lost vegetation random groups of woodland planting (feathers & transplants) and a continous crataegus (hawthorn) hedge to be planted. Grass areas to be hydroseeded.

For Wetland 2 refer to drawing 04-4104.01.04

REFERENCE PLAN FOR 1:500 DRAWINGS



A2 [illegible] AMW [illegible]

A1 [illegible] AMW Issued for comment
Rev Date By Issue

Client
Reading Borough Council

Project
M4 Junction 11 Improvements

Drawing Title
Landscape Masterplan - Sheet 4 of 5
East On Slip/West Bound Off Slip

Drawing Status
For Comment

Scale	Date	Drawn
1:500 @ A0	June 02	AMW

Drawing No.	Checked	Approved
04-4104.01.05 A2		

Reading BOROUGH COUNCIL

DEREK LOVEJOY PARTNERSHIP

LAND PLANNING AND DESIGN

[illegible]

To be read in conjunction with Peter Brett's Associates drawings

LEGEND

- Existing trees & vegetation: to be retained
- Proposed woodland matrix planting. Generic unless otherwise stated
- Proposed ornamental planting and specimen shrubs
- Proposed semi-mature tree
- Seeded areas Turfed & pegged on earth sculptures
- Proposed hedge
- Proposed damp grassland
- Seasonal wetland pond
- Wildflower grassland
- Resin bound gravel- Buff colour
- Asphalt footpath
- Gantry sign
- Visibility splay
- Planning boundary
- Noise barrier: 2.0m height

M4 MOTORWAY

M4 MOTORWAY EASTBOUND

GREAT LEA COMMON

CARAVAN PARK

READING BOROUGH COUNCIL

WOKINGHAM DISTRICT COUNCIL

Existing trees & hedge along boundary to be retained where possible

Woodland matrix to screen the alignment of the new road from Great Lea Common

Seasonal ponds of shallow depths and depression to encourage invertebrates.

WETLAND 3

Approximate position of pill box to be retained, structure to be densely planted with woodland matrix to hinder access and encourage bats to colonise.

Existing ditch enlarged and realigned. Satellite ponds and depressions to be contructed to encourage invertebrates and wildlife. Wetland plant species and damp grassland mix sewn to stop bank erosion and to create habitats. Proposed woodland planting blocks to be generic mix or damp woodland mix on the lower slopes. Tree logs to be located within the woodland edge to encourage insects and invertebrates.

Existing culvert

GREEN BRIDGE

Addastone finish with bands of concrete setts. Ornate railings to screen the motorway. Raised planters with ornamental shrubs and specimen plants.

WETLAND 2

Culverts and dry balancing pond reprofiled. Satellite ponds and depressions to be constructed to encourage invertebrates and wildlife. Proposed woodland planting blocks to be generic mix or damp woodland mix on the lower slopes. Log piles to be located within the woodland edge to encourage insects and invertebrates

Earth depression

Proposed Prunus laucerasus 'Etna' hedge to hide safety barrier

Southern cycle/ pedestrian bridge

Proposed culvert

Existing footpath (13 reac)

Remedial works to be carried out as necessary to marry in with existing levels and seeded

ORNAMENTAL PLANTING

TREES

ApC	Acer platanoides 'Columnare'	30-35cm GIRTH
Ag	Alnus glutinosa	12-14cm GIRTH
CbR	Carpinus betulus 'Frans Fontaine'	30-35cm GIRTH

SHRUBS AND GROUND COVER (3L to 5L POT SIZE)

Bergenia cordifolia 'Silberlicht'
Buxus spp.(pyramid shape)
Clematis montana
Cornus alba 'Sibirica'
Cornus sanguinea
Corylus coggygria
Euonymus europaeus
Euonymus fortunei Radicans
Geranium pratense
Lamium maculatum album
Laurus nobilis
Lonicera periclymenum Belgica
Phormium tenax
Phormium tenax 'Variegatum'
Photinia x fraseri 'Red Robin'
Rosa cantabrigiensis
Rosa White Max Graf
Salix alba 'Britzensis'
Symphytum ibericum
Symphoricarpos x chenaultii Hancock
Thymus sepyllum

HEDGING (12L POT SIZE)

Buxus sempervirens
Crataegus monogyna
Elaeagnus x ebbingei
Ligustrum ovalifolium 'Aureum'
Prunus laucerasus 'Etna'

BULBS

Crocosmia 'Lucifer'
Narcissus 'February Gold'
Narcissus 'Tete a Tete'

WOODLAND MATRIX - GENERIC

Trees 10% 14-16cm GIRTH
Acer campestre
Fraxinus excelsior
Prunus avium
Sorbus aria
Tilia cordata

Feathers 20% 200-250cm HEIGHT
Fraxinus excelsior
Prunus avium
Sorbus aucuparia

Transplants 70%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Euonymus europaeaus
Ilex aquafolium
Prunus avium
Prunus spinosa
Quercus robur
Rosa canina

WETLAND 1: AQUATIC/MARGINAL PLANTING

Iris pseudacurus
Juncus effusus (reed beds)
Juncus inflexus (reed beds)
Nuphar lutea
Phragmites australis
Potomageton crispus
Ranunculus aquatilis

DAMP WOODLAND: WETLANDS 2 AND 3 ADJACENT TO WATER COURSES AND WETLAND AREAS

Feathers 10%, Transplants 90%
Betula pendula
Cornus sanguinea
Crataegus monogyna
Quercus robur
Salix cuprea
Salix cinerea
Viburnum opulus

WETLANDS 2 AND 3: DAMP GRASSLAND

Seed mix, to include the following species, sown at 5g/m2
Agrostis canina spp. canina
Caltha palustris
Filipendula ulmaira
Juncus effusus
Lychnis flos-cuculi
Mentha aquatilis
Myosotis scorpioides

PONDS (WETLANDS 2 AND 3): AQUATIC PLANTING

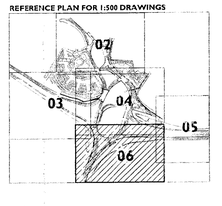
Glyceria fluitans
Potomageton crispus
Ranunculus aquatilis

WILDFLOWER GRASSLAND

Landlife 'Wildflower Meadow and Grass seed' mix sown at 5g/m2

Mixture Composition	By No. Of Seed
Wild Carrot	6%
Red Campion	12%
Meadow Buttercup	14%
Ox-eye Daisy	44%
Lesser Knapweed	6%
White Campion	9%
Ribwort Plantain	2%
Yellow Rattle	1%
Musk Mallow	1%
Cowslip	5%

REFERENCE PLAN FOR 1:500 DRAWINGS



A3	19/10/01	AMW	General amendments made in line with comments received
A2	11/12/01	AMW	Boundary amendment
Rev	Date	By	Note

Client: Reading Borough Council

Project: M4 junction 11 Improvements

Drawing Title: Landscape Masterplan Sheet 5 of 5

Drawing Status: For Comment

Scale	Date	Drawn
1:500 @ A0	June 02	AMW

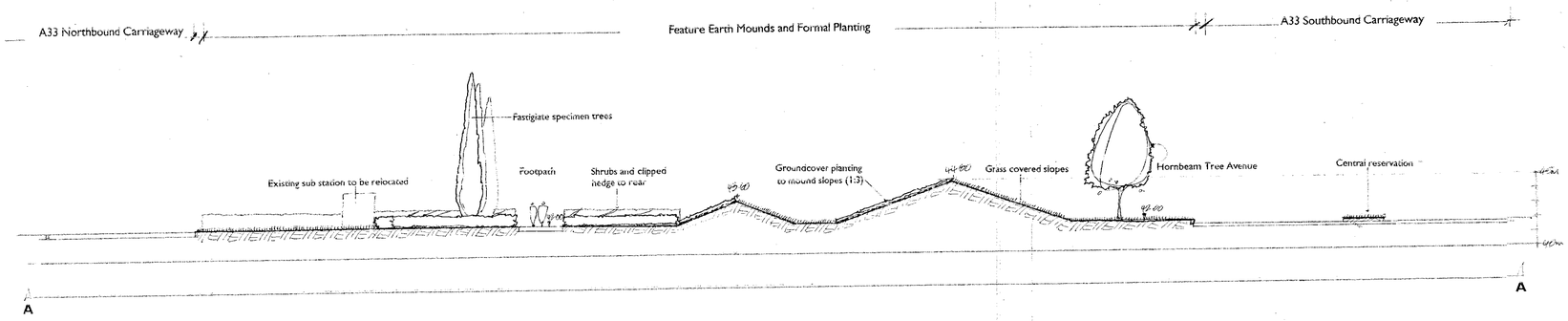
Drawing No. 04-4104.01.06 A2 — Checked: — Approved:

Reading Borough Council

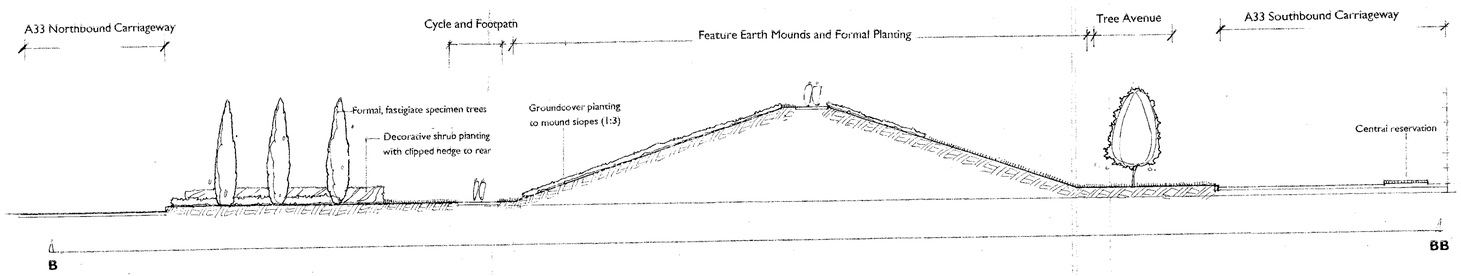
DEREK LOVEJOY PARTNERSHIP

LAND PLANNING AND DESIGN

1 Fore Street, Birmingham B2 5BZ Tel 0121 329 7676 Fax 0121 329 7677
Birmingham London Edinburgh



Section Through Feature Pyramids
Scale 1:200



Section Through Feature Pyramid
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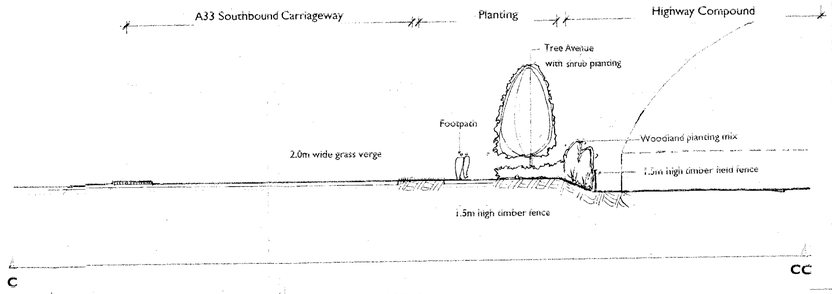
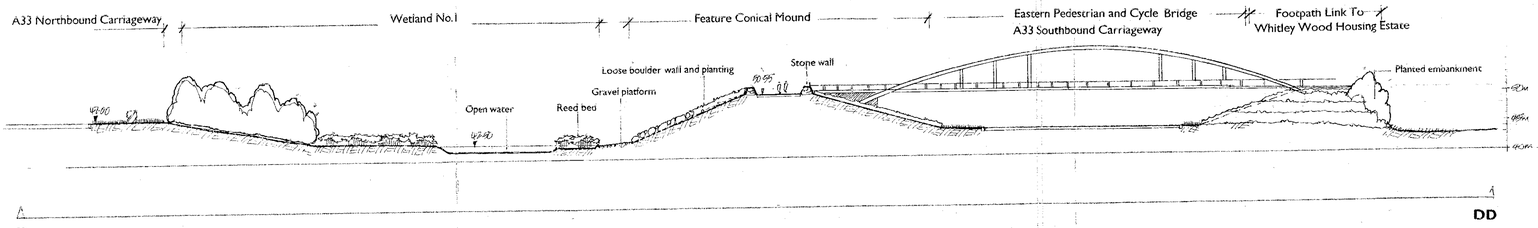
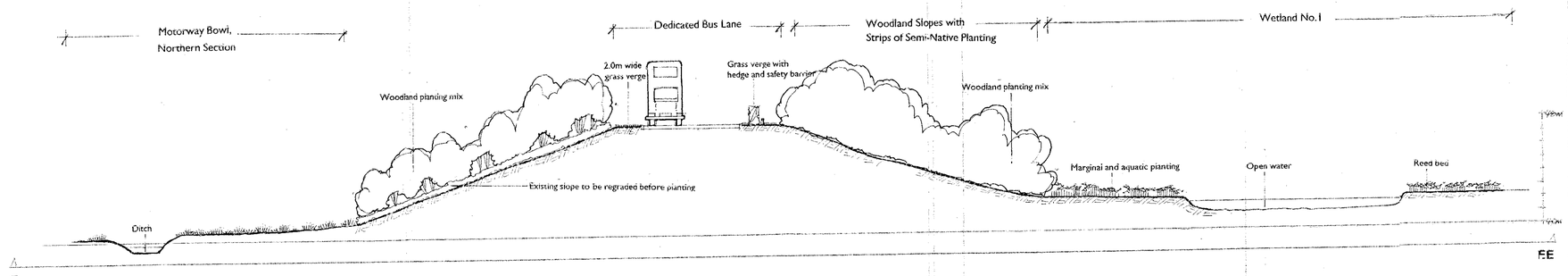


Section Through A33 Southbound Carriageway and Highway Services Depot
Scale 1:200



Section Through Wetland No.1, Conical Mound and Eastern Cycle / Pedestrian Bridge
Scale 1:500



Section Through M4 Motorway Northern Bowl, Dedicated Bus Lane and Wetland No. 1
Scale 1:200

A1 19.07.02 CW Amendments carried out in line with PBA comments

Rev Date By Notes

Client
Reading Borough Council

Project
READING PORTAL

Drawing Title
Landscape Cross Sections

Drawing Status
For Planning

Scale: Various | Date: june 02 | Checked: ABC

Drawing No: 04-4104.01.07 | Approved:

Reading Borough Council

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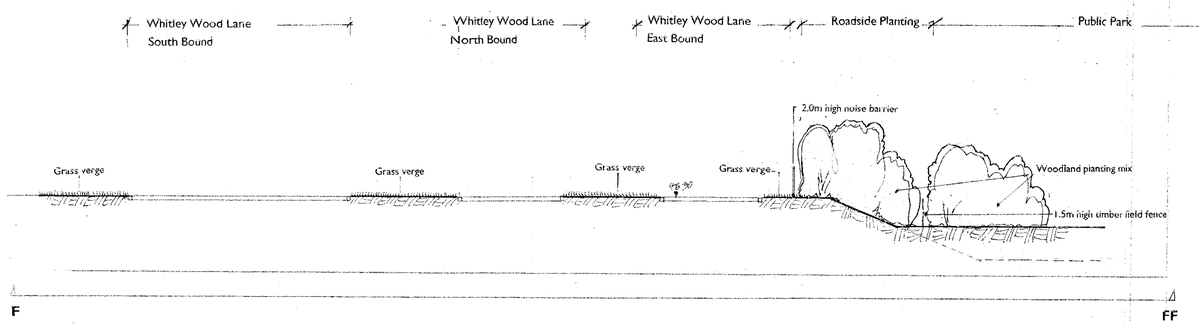
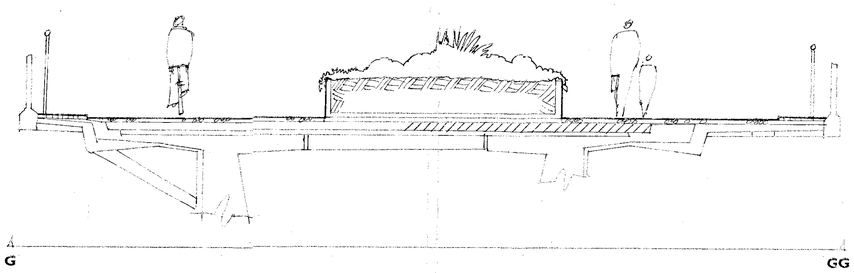
LAND PLANNING AND DESIGN
Alpha Tower, Birmingham B2 5EX Tel 0121 329 7070 Fax 0121 329 7077
Birmingham London Edinburgh

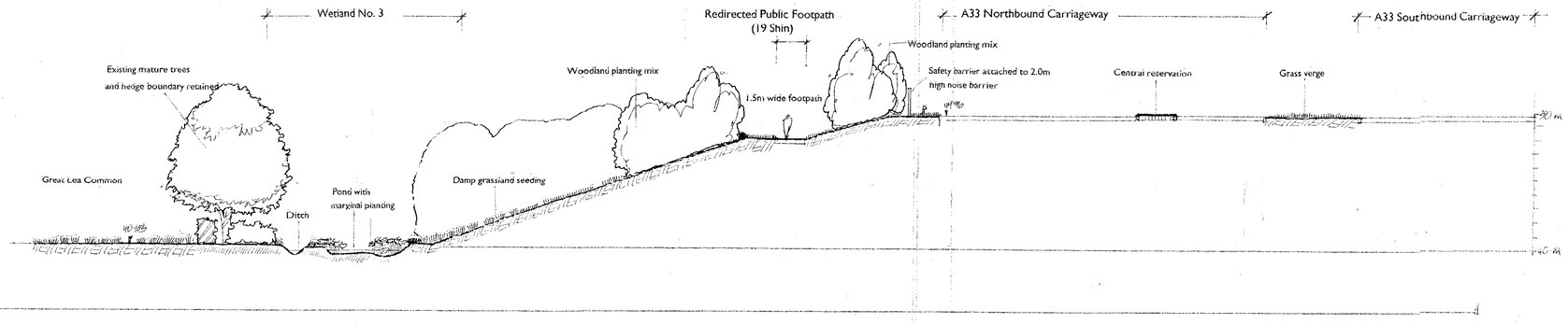
drawing from any variation made to the drawing or in the execution of the work to which it relates which has not been referred to and approved otherwise.



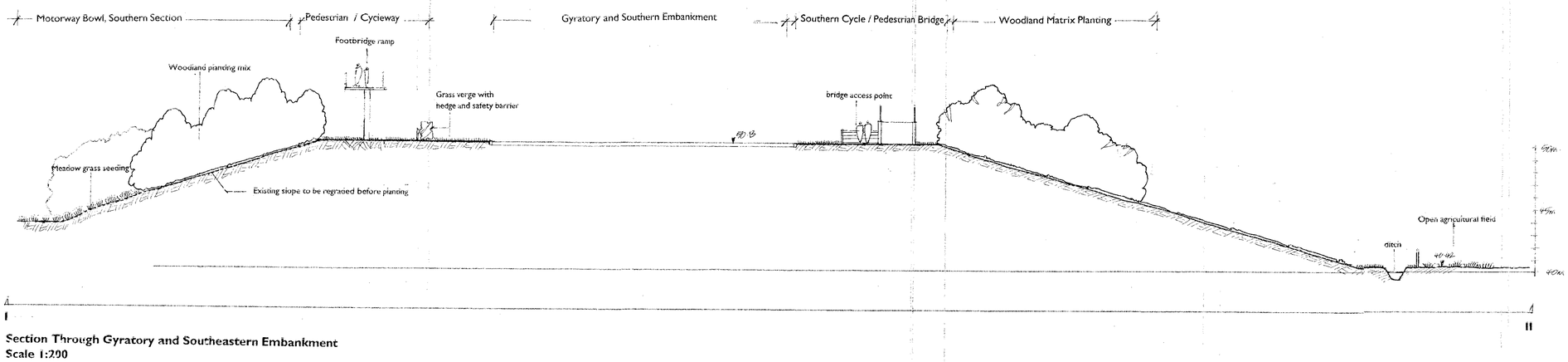
Section Through the Eastbound On-Slip Road and Existing Public Park
Scale 1:200



Section Through the 'Green Bridge'
Scale 1:50



Section Through Wetland No.3
Scale 1:200



Section Through Gyratory and Southeastern Embankment
Scale 1:200

A1 19.07.02 CW Amendments carried out in line with PBA comments

Rev Date By Notes

Client
Reading Borough Council

Project
READING PORTAL

Drawing Title
Landscape Cross Sections

Drawing Status
For Planning

Scale	Date	Drawn
Various	june 02	ABC
Drawing No.	Checked	Approved
04.4104.01.08		

Reading Borough Council

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