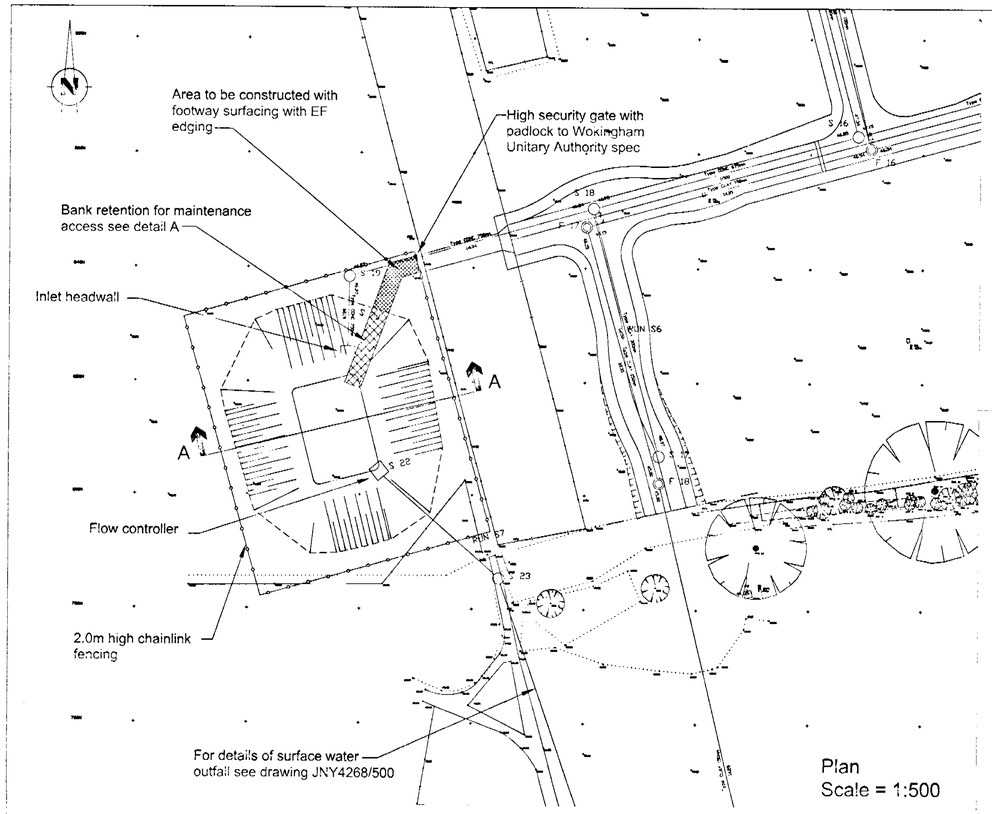
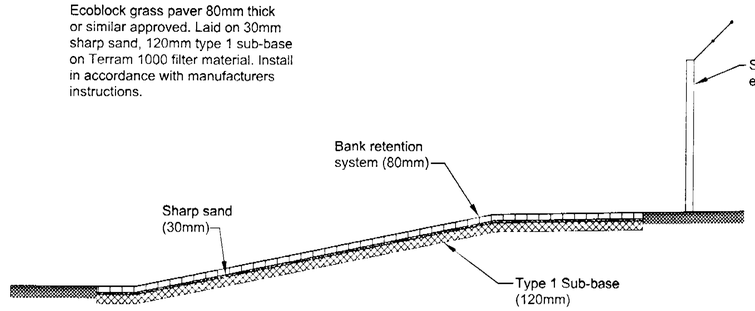
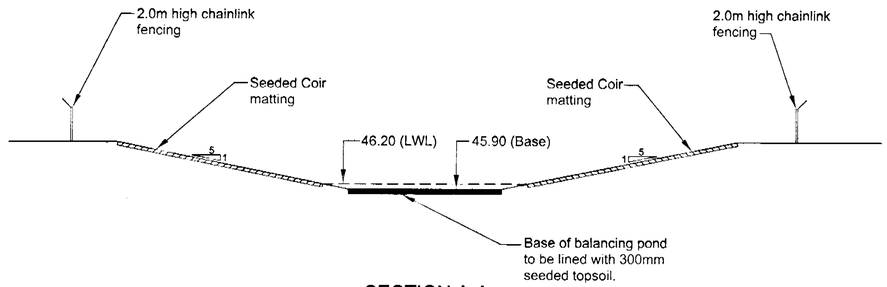


Plan
Scale = 1:500

Ecoblock grass paver 80mm thick or similar approved. Laid on 30mm sharp sand, 120mm type 1 sub-base on Terram 1000 filter material. Install in accordance with manufacturers instructions.



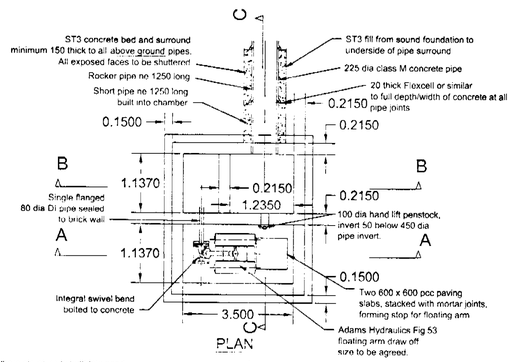
BANK RETENTION FOR MAINTENANCE ACCESS
Not to scale



SECTION A-A
Not to scale

NOTES:

1. This drawing to be read in conjunction with other drainage construction drawings.
2. Do not scale from this drawing.
3. Details and dimensions of flow controller to be confirmed by manufacturer of equipment. Adams Hydraulics example design shown.

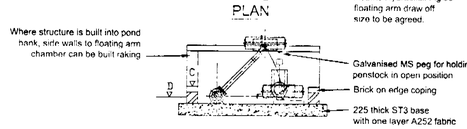


PLAN

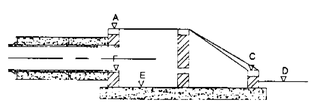
NOTES

All dimensions are in millimetres
All levels are in metres AOD Newlyn
Floating arm to be standard finish
Structure width to be checked against floating arm as delivered
Class B engineering brickwork throughout
Ends of coping to be retained with galvanised MS fish tail cramps

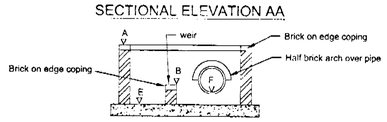
Level	Pond	
A	47.80	overflow weir
B	46.60	minimum water level weir
C	46.50	silt protection weir
D	46.20	pond bottom
E	46.10	base
F	46.60	outlet pipe invert



SECTIONAL ELEVATION AA

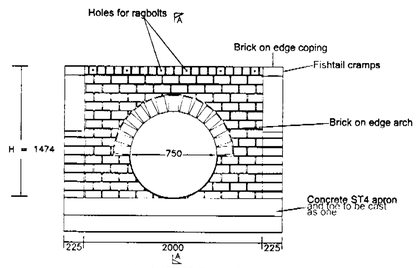


SECTION CC

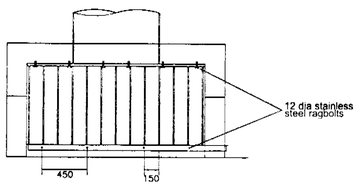


SECTIONAL ELEVATION BB

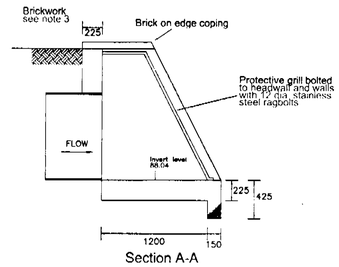
BALANCING POND FLOW CONTROLLER WITH INTEGRAL OVERFLOW AND OIL AND SILT TRAPPING
Not to scale



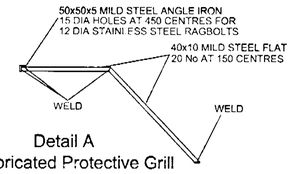
ELEVATION (Grill omitted for clarity)



PLAN



Section A-A



Detail A
Prefabricated Protective Grill

HEADWALL CONSTRUCTION DETAIL
Not to scale

REV	DESCRIPTION	DRAWN
DATE		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

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No stamp – informative only.

Planning, Transport and Environment

HIGHWAYS & INFRASTRUCTURE

Tel: 01635 279000 – Fax: 01635 279050 – DX 30840 Ne
3 London Road – Newbury – Berkshire RG14 1.
Email: rpsne@rpsplc.co.uk – Website: www.rpsplc.c

PROJECT

Hollow Lane, Shinfield

DRAWING TITLE

BALANCING POND AND FLOW CONTROLLER DETAILS

CLIENT

P:\13109\Tech\cad\Misc\CRESTLOGO.bmp

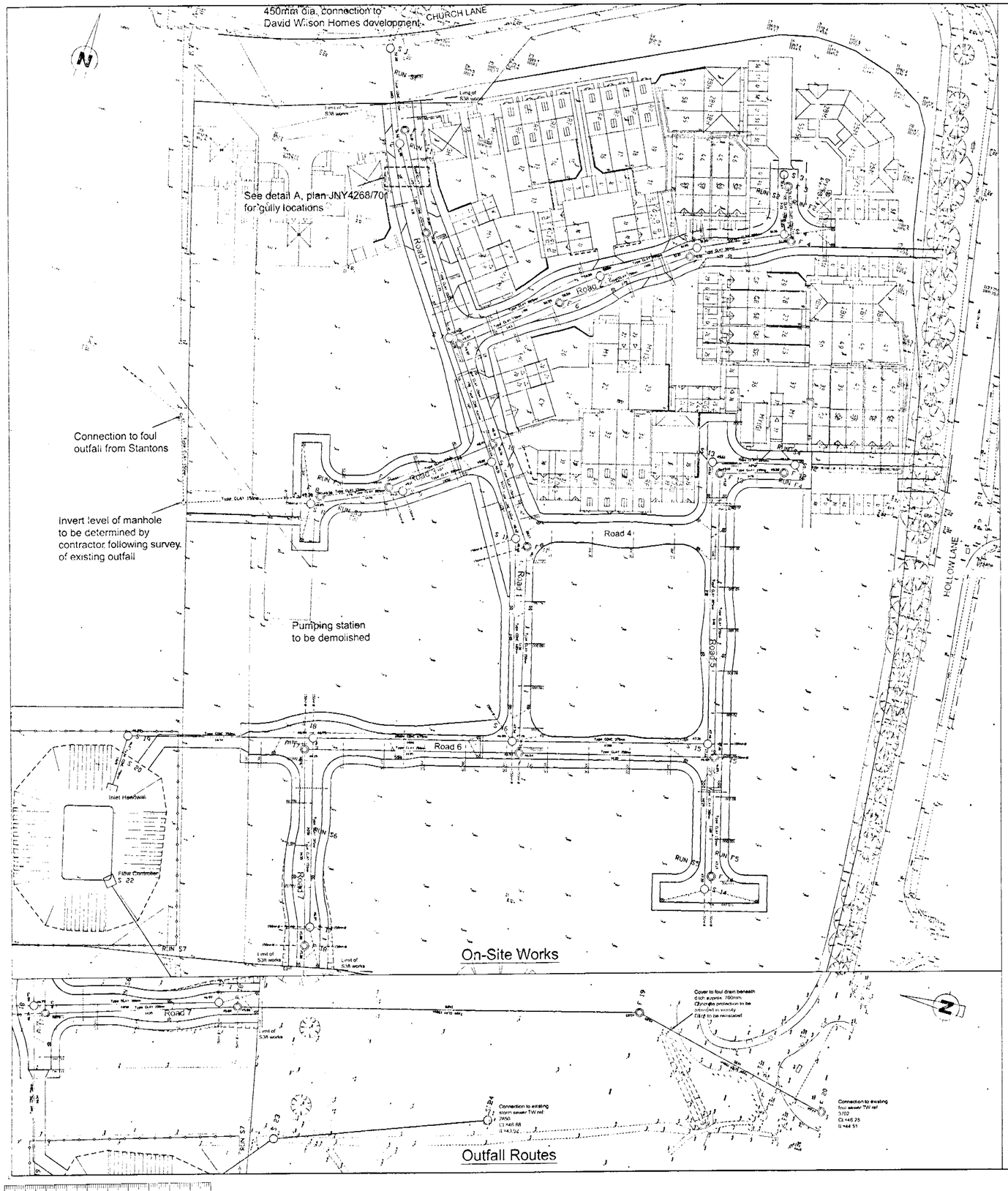
Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

SCALE	ORIGINAL PAPER SIZE	DATE
AS SHOWN	A1	08.04.02

DRAWN BY	AUTHORISED BY	FILE REF
KLW		BAL-POND

DRAWING NUMBER	REVISION
JNY4268/507	-

11:07:04 6/5/09



Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
F1	53.158				1200	TYPE B	Heavy
F2	52.664				1200	TYPE B	Heavy
F3	50.797				1200	TYPE B	Heavy
F4	50.685				1200	TYPE B	Heavy
F5	50.429				1200	TYPE B	Heavy
F6	50.457				1200	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
S4	52.585				1050	TYPE B	Heavy
S5	52.443				1050	TYPE B	Heavy
S6	52.277				1050	TYPE B	Heavy
S7	51.965				1750	TYPE B	Heavy
S8	50.678				1050	TYPE B	Heavy
S9	50.807				1050	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
F7	50.958				1200	TYPE B	Heavy
F8	50.799				1050	TYPE B	Heavy
F9	50.897				1200	TYPE B	Heavy
F10	51.075				1200	TYPE A	Heavy
F11	50.547				1200	TYPE A	Heavy
F12	50.665				1050	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
S10	51.295				1500	TYPE A	Heavy
S11	50.644				1500	TYPE A	Heavy
S12	50.58				1050	TYPE B	Heavy
S13	50.58				1050	TYPE B	Heavy
S14	49.756				1050	TYPE B	Heavy
S15	49.983				1200	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
F13	50.845				1050	TYPE B	Heavy
F14	48.845				1050	TYPE B	Heavy
F15	49.836				1200	TYPE B	Heavy
F16	49.516				1050	TYPE A	Heavy
F17	49.886				1200	TYPE A	Heavy
F18	47.936				1200	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
S16	49.017				1200	TYPE A	Heavy
S17	48.069				1050	TYPE B	Heavy
S18	48.897				1050	TYPE B	Heavy
S19	49.886				1050	TYPE B	Heavy
S20	48.996	Existing Foul Manhole to be retained					
S22	48.729						

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
F19	48.548				1050	TYPE A	Heavy
F20	48.256	Existing to remain Foul Gully			1050	TYPE B	Heavy
S1	53.065				1750	TYPE B	Heavy
S2	53.508				1750	TYPE B	Heavy
S3	53.648				1050	TYPE B	Heavy

Manhole Number / Level details	Cover Level	Connects	Inverts	Pipe Bore	Manhole Size	Types: Manhole	Types: Cover
S23	48.508				1050	TYPE A	Heavy
S24	48.098	Existing to remain			1050	TYPE B	Heavy

Notes:

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4. All drainage works subject to adoption under Section 104 of the Water Industry Act shall be constructed in accordance with the Water Authorities Association, Sewers for Adoption - Edition 5, A Design and Construction Guide for Developers with any additions and amendments where appropriate by the adopting Authority.
5. All adoptable highway drainage shall where ever possible be located within the highway or within land to be adopted by the adopting Authority.
6. The position and depth of existing statutory undertakers equipment affected by the proposed work is to be checked and verified by the Contractor prior to work commencing on site.
7. All levels relate to Ordnance Survey Datum unless otherwise stated.
8. For details of private drainage see other RPS drawings in the series.
9. Linetype relates to 2 x 100mm black UPVC ducts laid across carriageway for future use.
10. All cover levels relate to road long sections at relevant offset. Add 65mm where manhole falls within raised block-paved areas.
11. Easements provided for Thames Water to allow access to sewers not within adopted highway.
12. All highway design and construction to comply with Wokingham Unitary Authority's design specification.
13. All building work to comply with NHBC requirements.
14. All proposed and relevant existing levels are to be checked prior to construction start and any discrepancies referred back to the Technical Department.
15. Road gully connections to be 150mm.
16. Cover levels of manholes, inspection chambers and gradients of sewers are for informational purposes only and must not be used for setting out purposes.
17. All existing draining on site is to be checked for live connections. The inspection chambers are to be broken out and the drains either broken out or filled with PFA grout.
18. Position of S1 may be adjusted to suit David Wilson Homes section 278 works.
19. Outfall routes subject to relevant approvals.
20. Unless shown, gully connections not to be directly into manholes.

KEY:

- Foul sewers
- Surface water sewers
- Phase 2 private drainage connections (assumed locations)
- 2 Spare ducts
- Site boundary
- Easement
- ⊠ Gully

REV	DESCRIPTION	DRAWN
C	Phase 2 private drainage connections added	KLW
DATE 17.04.02		AUTHORISED
REV	DESCRIPTION	DRAWN
B	Manhole types added	PF
DATE 03.04.02		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

PLANNING

This drawing is issued solely for the purpose indicated by the original stamp in this box. No stamp - information only.

Planning, Transport and Environment

HIGHWAYS & INFRASTRUCTURE

Tel: 01635 279000 Fax: 01635 279060 DX 30840 Newbury
3 London Road - Newbury - Berkshire RG14 1JL
Email: rpsnew@rpsplc.co.uk - Website: www.rpsplc.co.uk

PROJECT: Hollow Lane, Shinfield

DRAWING TITLE: ENGINEERING LAYOUT

CLIENT: Crest Nicholson

Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

SCALE	ORIGINAL PAPER SIZE	DATE
1:500	A1	FEB 02
DRAWN BY: KLW	AUTHORISED BY: PF	FILE REF: ENG-LAYOUT
DRAWING NUMBER: JNY4268/500		REVISION: C

450mm dia. connection to David Wilson Homes development

CHURCH LANE

See detail A, plan JNY4268/700 for gully locations

Connection to foul outfall from Stantons

Invert level of manhole to be determined by contractor following survey of existing outfall

Pumping station to be demolished

Road 1

Road 2

Road 3

Road 4

Road 5

Road 6

Road 7

HOLLOW LANE

Inlet Headwall

Flow Control S 22

Limit of S38 works

On-Site Works

Cover to foul drain beneath ditch approx 700mm Concrete protection to be provided as necessary. Ditch to be reinstated.

Connection to existing storm sewer TW ref 3950 CL=48.88 IL=43.92

Connection to existing foul sewer TW ref 3702 CL=46.25 IL=44.51

Outfall Routes

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
F1	53.150				1200	TYPE S	Heavy
F2	52.643				1200	TYPE S	Heavy
F3	52.767				1200	TYPE S	Heavy
F4	52.545				1200	TYPE S	Heavy
F5	52.429				1200	TYPE S	Heavy
F6	52.207				1200	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
S4	52.588			150	1050	TYPE S	Heavy
S5	52.463			225	1050	TYPE S	Heavy
S6	52.222			225	1050	TYPE S	Heavy
S7	51.965			225 150	1200	TYPE S	Heavy
S8	50.478			225	1050	TYPE S	Heavy
S9	50.617			225	1050	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
F7	51.150			150	1200	TYPE S	Heavy
F8	50.778			150	1050	TYPE S	Heavy
F9	50.897			150	1200	TYPE S	Heavy
F10	50.476			150	1200	TYPE A	Heavy
F11	50.547			150	1200	TYPE A	Heavy
F12	50.665			150	1050	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
S10	51.963			225	1500	TYPE A	Heavy
S11	50.644			225	1500	TYPE S	Heavy
S12	50.08			225	1050	TYPE S	Heavy
S13	50.08			225	1050	TYPE S	Heavy
S14	49.796			300	1050	TYPE S	Heavy
S15	49.963			300 225	1200	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
F13	50.043			150	1200	TYPE S	Heavy
F14	49.975			150	1200	TYPE S	Heavy
F15	49.838			150	1200	TYPE S	Heavy
F16	49.541			150	1200	TYPE A	Heavy
F17	49.200			150	1200	TYPE A	Heavy
F18	47.936			150	1200	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
S16	49.373			150	1500	TYPE S	Heavy
S17	49.015			150	1050	TYPE S	Heavy
S18	48.993			150	1500	TYPE S	Heavy
S19	49.000			150	1500	TYPE S	Heavy
S20	48.996	Balancing Pond Flow Control			1500	TYPE S	Heavy
S22	48.726			150	1050	TYPE A	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
F19	48.948			150	1200	TYPE A	Heavy
F20	48.858	Balancing Pond Flow Control		150	1200	TYPE S	Heavy
S1	53.963			450	1200	TYPE S	Heavy
S2	53.526			450	1200	TYPE S	Heavy
S3	53.909			150	1050	TYPE S	Heavy

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diams	Manhole Size	Types: Manhole	Types: Cover
S23	48.938			150	1050	TYPE A	Heavy
S24	48.888	Balancing Pond Flow Control		150	1050	TYPE S	Heavy

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- Surface water sewers
- Phase 2 private drainage connections (assumed location)
- 2 Spare ducts
- Site boundary
- Easement
- Gully

REV	DESCRIPTION	DRAWN
C	Phase 2 private drainage connections added	KLW
DATE 17.04.02		AUTHORISED
REV	DESCRIPTION	DRAWN
B	Manhole types added	PF
DATE 03.04.02		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

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RPS Planning, Transport and Environment

HIGHWAYS & INFRASTRUCTURE

Tel: 01635 279000 - Fax: 01635 279050 DX 30840 Newbury
3 London Road - Newbury - Berkshire RG14 1JL
Email: rpsne@rpsplc.co.uk - Website: www.rpsplc.co.uk

PROJECT

Hollow Lane, Shinfield

DRAWING TITLE

ENGINEERING LAYOUT

CLIENT

Crest Nicholson

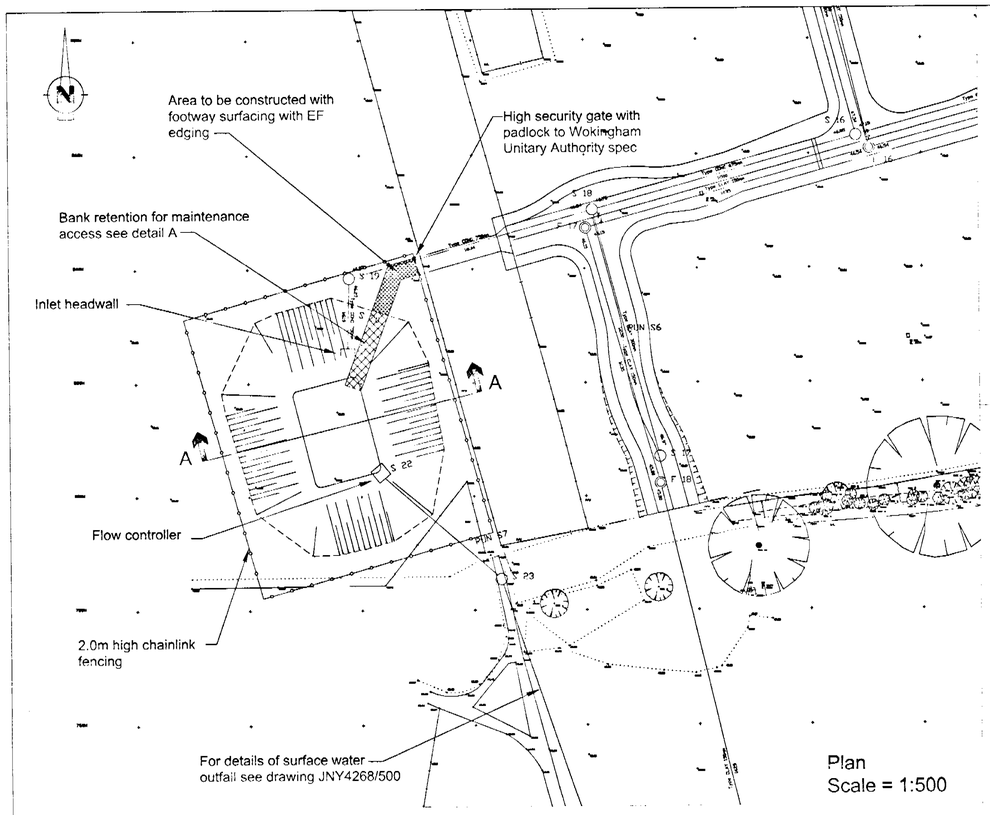
Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

SCALE	ORIGINAL PAPER SIZE	DATE
1:500	A1	FEB 02

DRAWN BY	AUTHORISED BY	FILE REF
KLW		ENG-LAYOUT

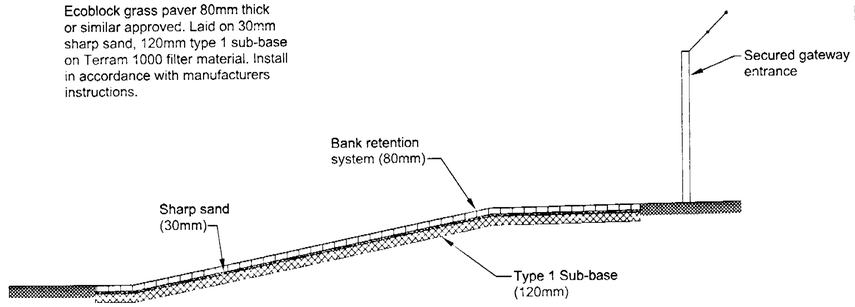
DRAWING NUMBER: JNY4268/500

REVISION: C

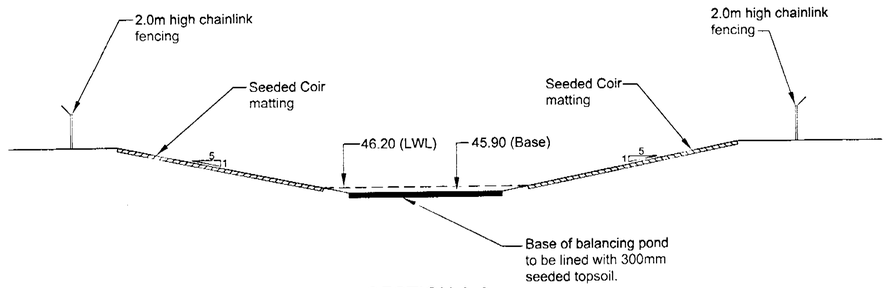


Plan
Scale = 1:500

Ecoblock grass paver 80mm thick or similar approved. Laid on 30mm sharp sand, 120mm type 1 sub-base on Terram 1000 filter material. Install in accordance with manufacturers instructions.



BANK RETENTION FOR MAINTENANCE ACCESS
Not to scale



SECTION A-A
Not to scale

NOTES:

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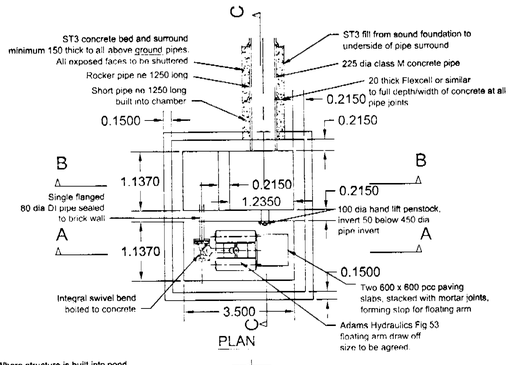
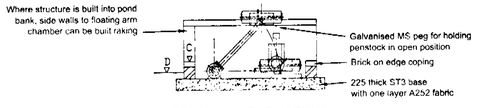
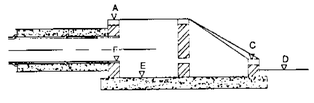
3. Details and dimensions of flow controller to be confirmed by manufacturer of equipment. Adams Hydraulics example design shown.



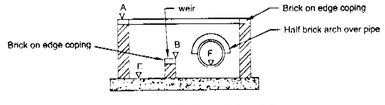
PLAN



SECTIONAL ELEVATION AA



SECTION_CC



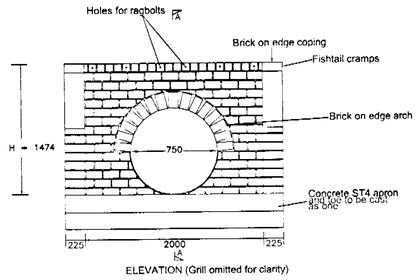
SECTIONAL ELEVATION BB

NOTES

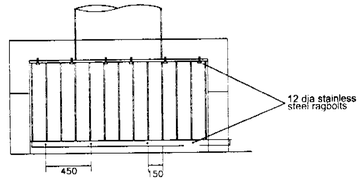
All dimensions are in millimetres
All levels are in metres AOD Newlyn
Floating arm to be standard finish
Structure width to be checked against floating arm as delivered
Class B engineering brickwork throughout
Ends of coping to be retained with galvanised MS fish tail cramps

Level	Pond	
A	47.80	overflow weir
B	46.60	minimum water level weir
C	46.50	silt protection weir
D	46.20	pond bottom
E	46.10	base
F	46.60	outlet pipe invert

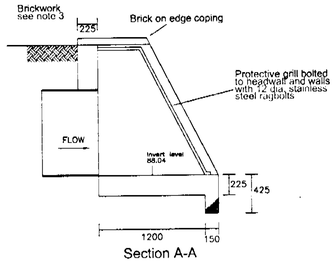
BALANCING POND FLOW CONTROLLER WITH INTEGRAL OVERFLOW AND OIL AND SILT TRAPPING
Not to scale



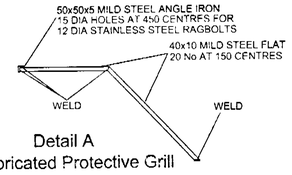
ELEVATION (Grill omitted for clarity)



PLAN



Section A-A



Detail A
Prefabricated Protective Grill

HEADWALL CONSTRUCTION DETAIL
Not to scale

REV	DESCRIPTION	DRAWN
DATE		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

This drawing is issued solely for the purpose indicated by the original stamp in this box.
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Planning, Transport and Environment
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PROJECT
Hollow Lane, Shinfield

DRAWING TITLE
BALANCING POND AND FLOW CONTROLLER DETAILS

CLIENT

P:\13100\Team\cad\Misc\CRESTLOGO.bmp

Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
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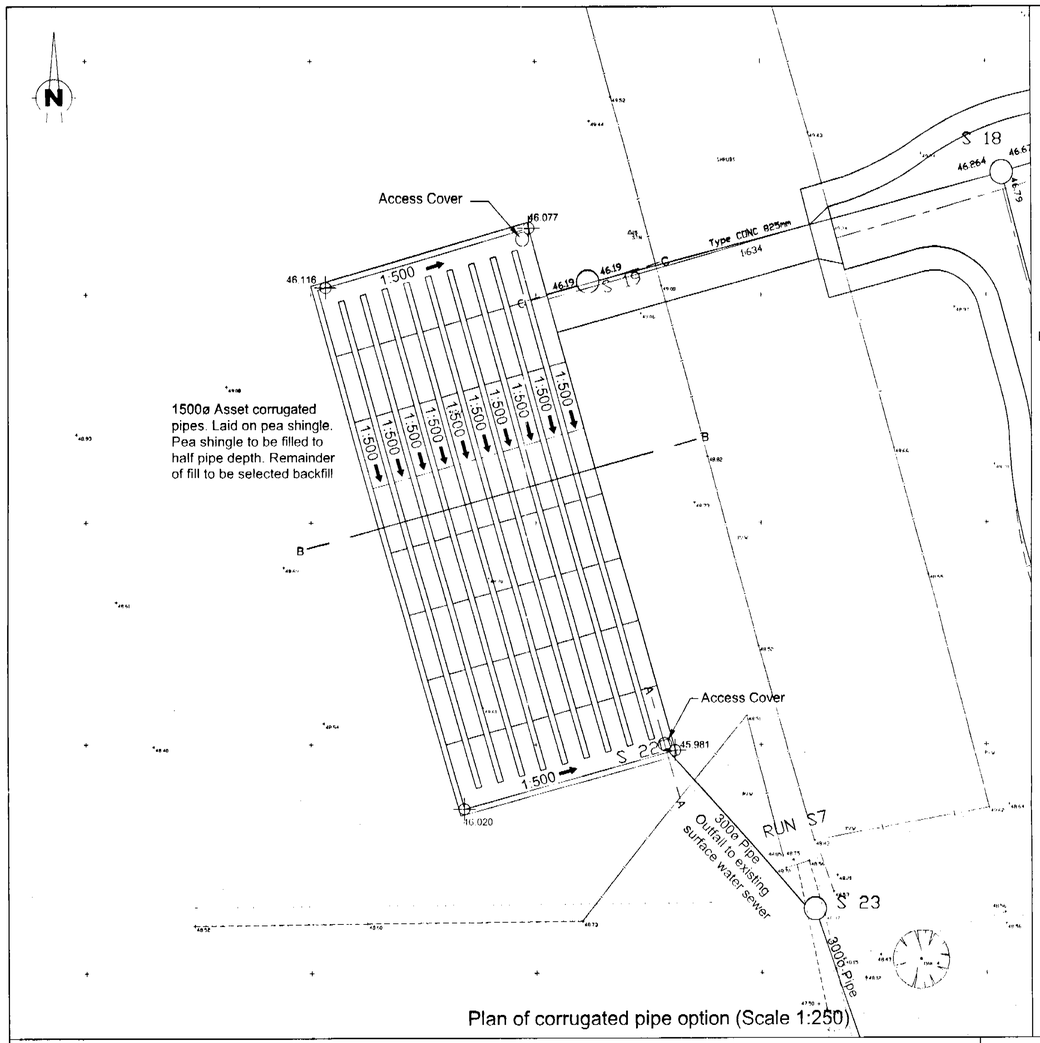
Tel: 01425 489199 Fax: 01425 489197

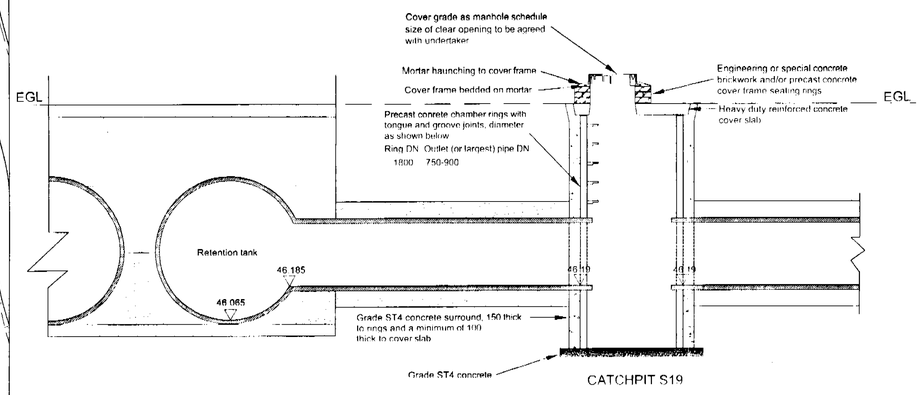
SCALE	ORIGINAL PAPER SIZE	DATE
AS SHOWN	A1	08.04.02
DRAWN BY	AUTHORISED BY	FILE REF
KLW		BAL-POND

DRAWING NUMBER: JNY4268/507
REVISION: -

10 MAY 2002
63/0



Plan of corrugated pipe option (Scale 1:250)



CATCHPIT S19

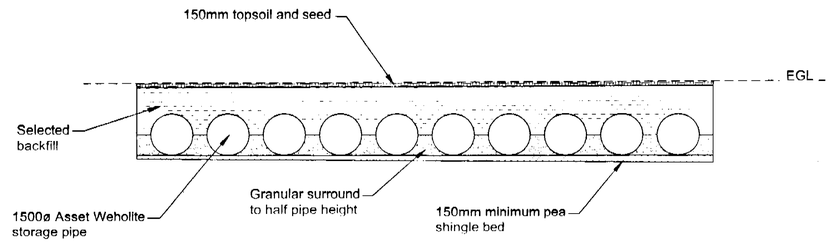
Section C-C Inlet / Catchpit S19(Not to scale)

Notes:

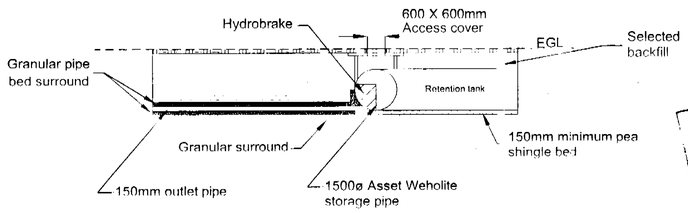
1. Do not scale from this drawing
2. All construction details to be approved by Thames Water Utilities and in accordance with sewers for adoption 5th edition
3. All pipe sections to be designed and fabricated by Asset Wehoilte.
4. Details of hydrobrake to be provided by manufacturer

MANHOLE SCHEDULE

Manhole Number	Cover Level	Connects	Depth to Invert	Pipe Dia.	Manhole Type	Frame Cover
S19	46.272			1800	CATCHPIT	Heavy
S22	46.725			N/A	TYPE B	Heavy
S23	46.171			1200	TYPE B	Heavy



Section B-B Corrugated pipe (Scale 1:100)



Section A-A Outfall including hydrobrake (Scale 1:100)

REV	DESCRIPTION	DRAWN
DATE		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

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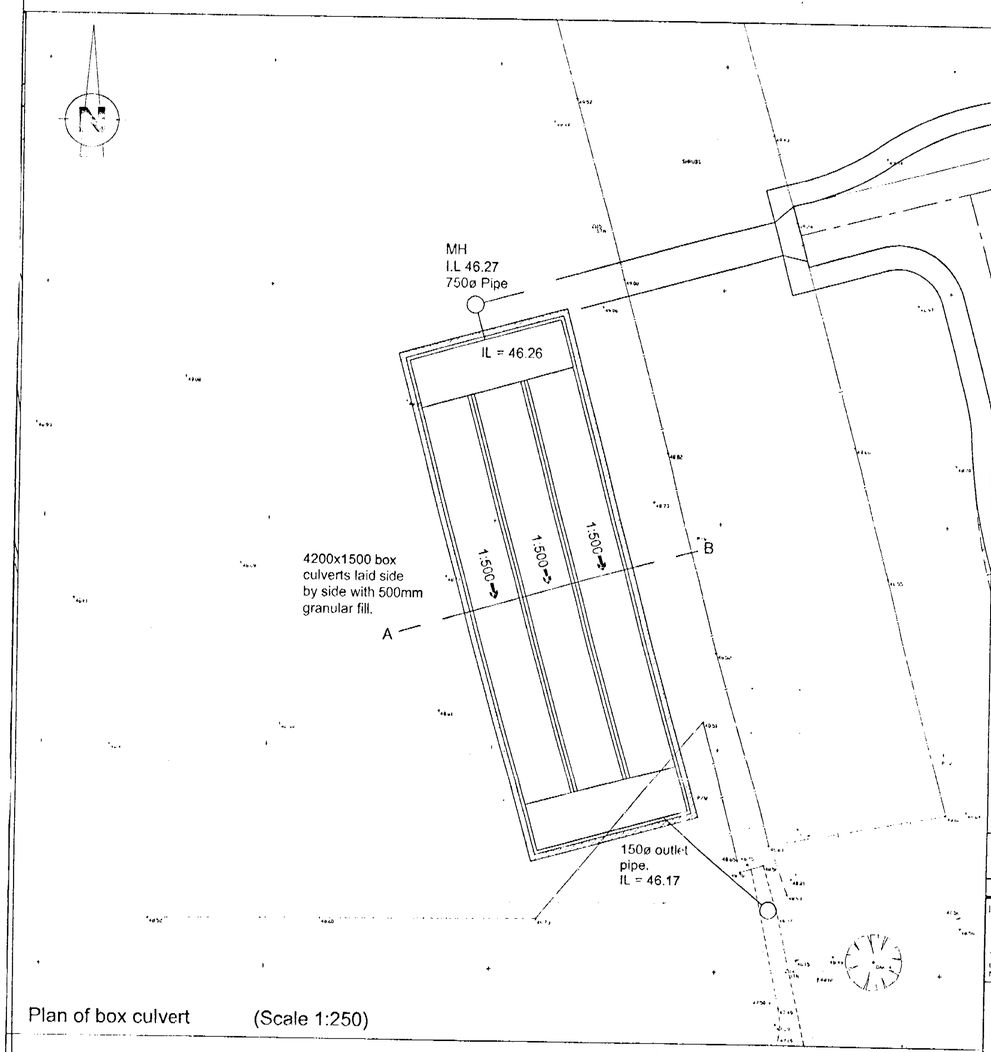
PROJECT
Hollow Lane, Shinfield

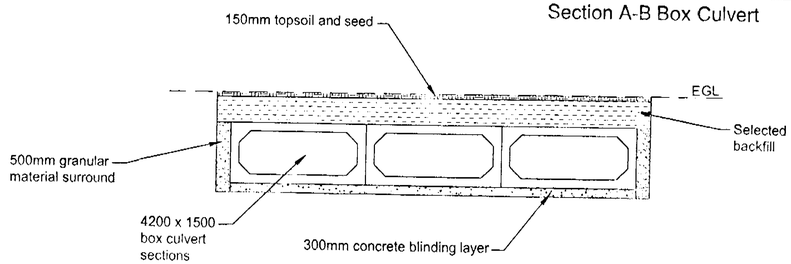
DRAWING TITLE
STORM RETENTION TANK CONSTRUCTION DETAILS

CLIENT
Crest Nicholson
NICHOLSON
Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

SCALE	ORIGINAL PAPER SIZE	DATE
AS SHOWN	A1	02.07.02
DRAWN BY	CHECKED BY	FILE REF
JE	DS	Storm tank
DRAWING NUMBER		REVISION
JNY4268/510		



Plan of box culvert (Scale 1:250)



Section A-B Box Culvert (Scale 1:100)

SUPERSEDED

16 MAY 2002 6521

REV	DESCRIPTION	DRAWN
DATE		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

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PROJECT
Hollow Lane, Shinfield

DRAWING TITLE
ON LINE
BALANCING FACILITIES

CLIENT
Crest NICHOLSON
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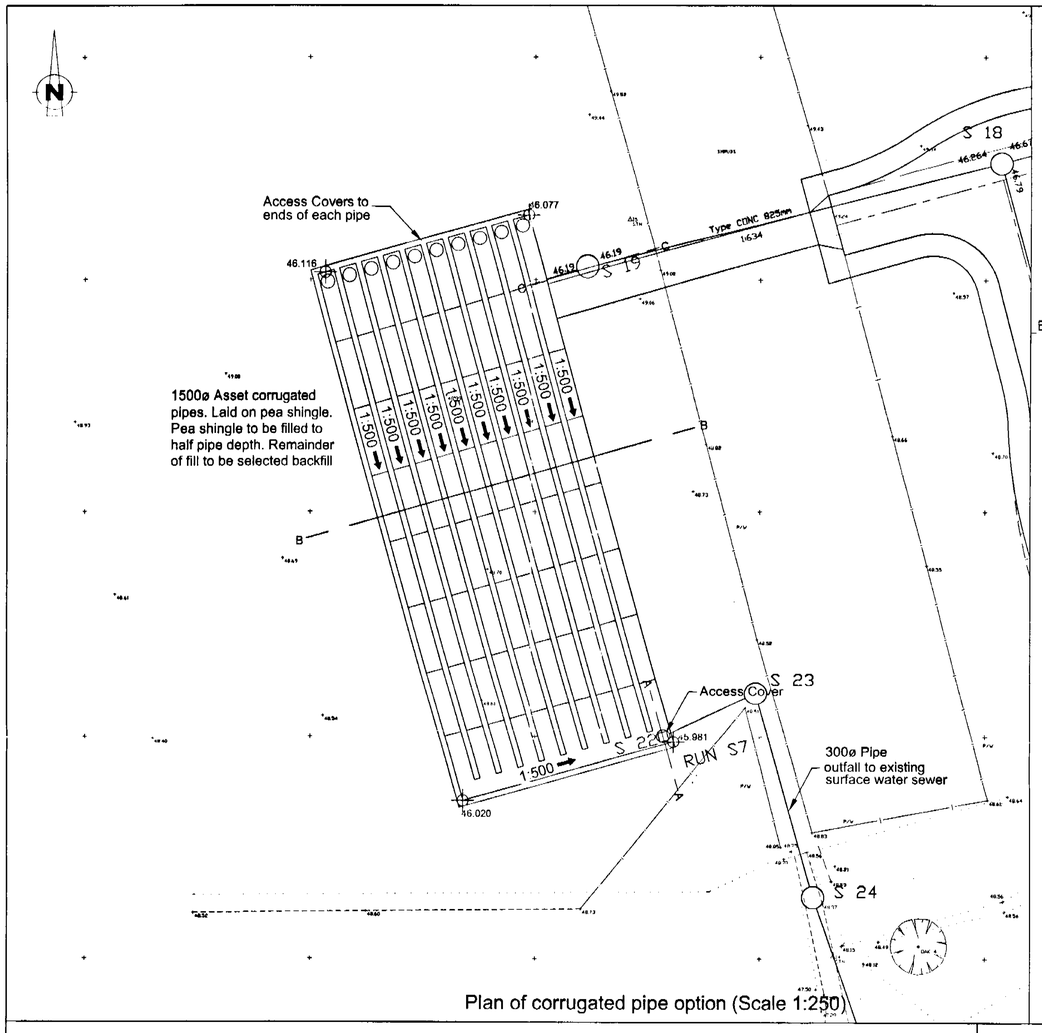
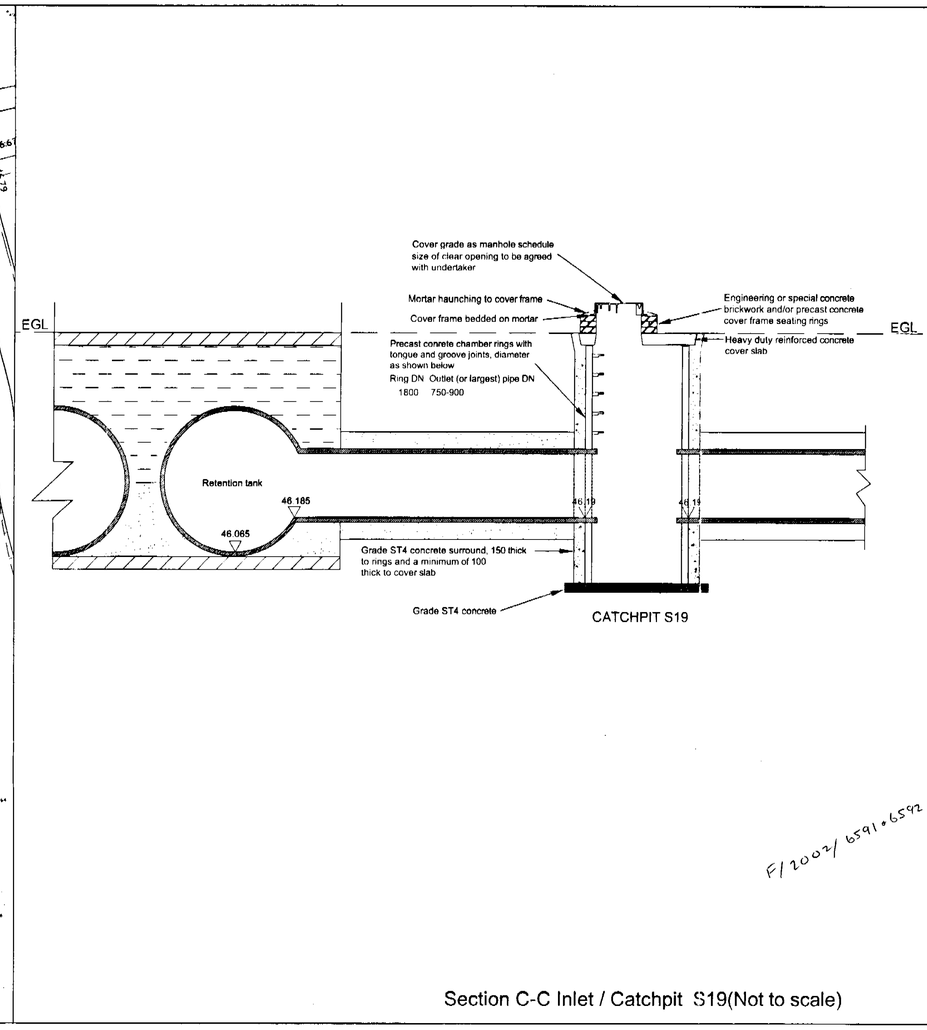
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

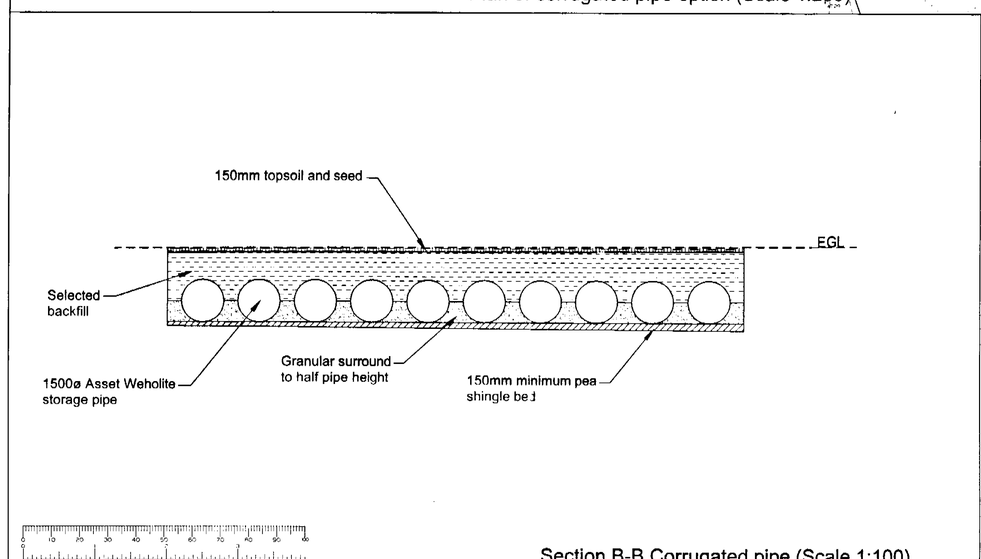
SCALE	ORIGINAL PAPER SIZE	DATE
AS SHOWN	A1	17.04.02
DRAWN BY	AUTHORISED BY	FILE REF
KLW		TANK-OPTIONS
DRAWING NUMBER		REVISION
JNY4268/07		-



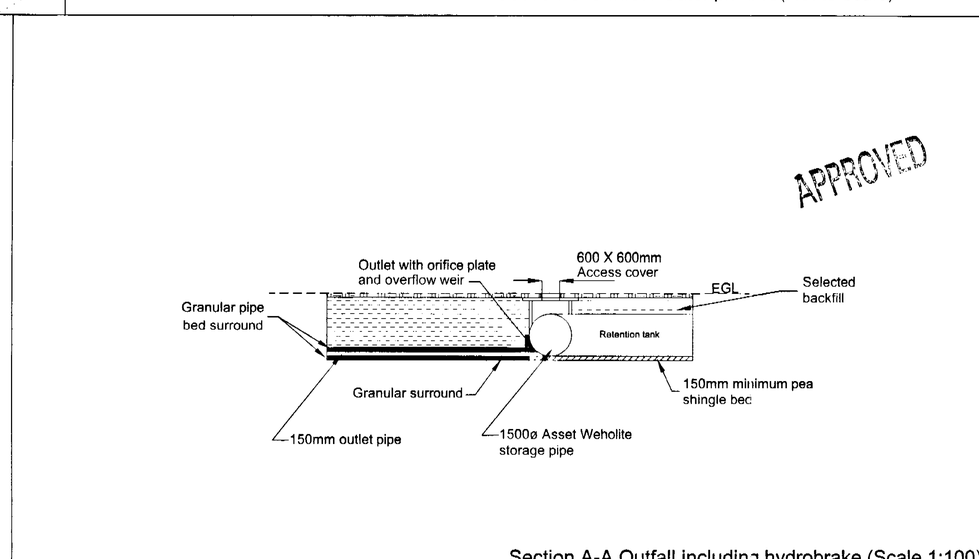
Plan of corrugated pipe option (Scale 1:250)



Section C-C Inlet / Catchpit S19(Not to scale)



Section B-B Corrugated pipe (Scale 1:100)



Section A-A Outfall including hydrobrake (Scale 1:100)

APPROVED

Notes:

1. Do not scale from this drawing
2. All construction details to be approved by Thames Water Utilities and in accordance with sewers for adoption 5th edition.
3. All pipe sections to be designed and fabricated by Asset Weholite.
4. Details of orifice plate to be provided by manufacturer

MANHOLE SCHEDULE

Manhole Number / Coordinates	Cover Level	Connects	Inverts	Pipe Diam	Manhole Size	Types: Manhole	Types: Cover
S19	46.270	1 / 0	46.19 / 46.19	1200 / 7400	1800	CATCHPIT	Heavy
S22	46.780	1 / 0	45.981 / 45.981	7400 / 300	N/A	TYPE 3	Heavy
S23	46.810	1 / 0	45.981 / 45.981	300 / 300	1800	TYPE 3	Heavy
S24	46.370	1 / 0	45.981 / 45.981	300 / 300	1800	TYPE 3	Heavy

REVISED PLAN

REV	DESCRIPTION	DRAWN
A	Top manifold removed from tank, dog leg on outfall added	DJG
DATE July'02		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

FOR APPROVAL

This drawing is issued solely for the purpose indicated by the original stamp in this box.
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PROJECT

Hollow Lane, Shinfield

DRAWING TITLE

STORM RETENTION TANK CONSTRUCTION DETAILS

CLIENT

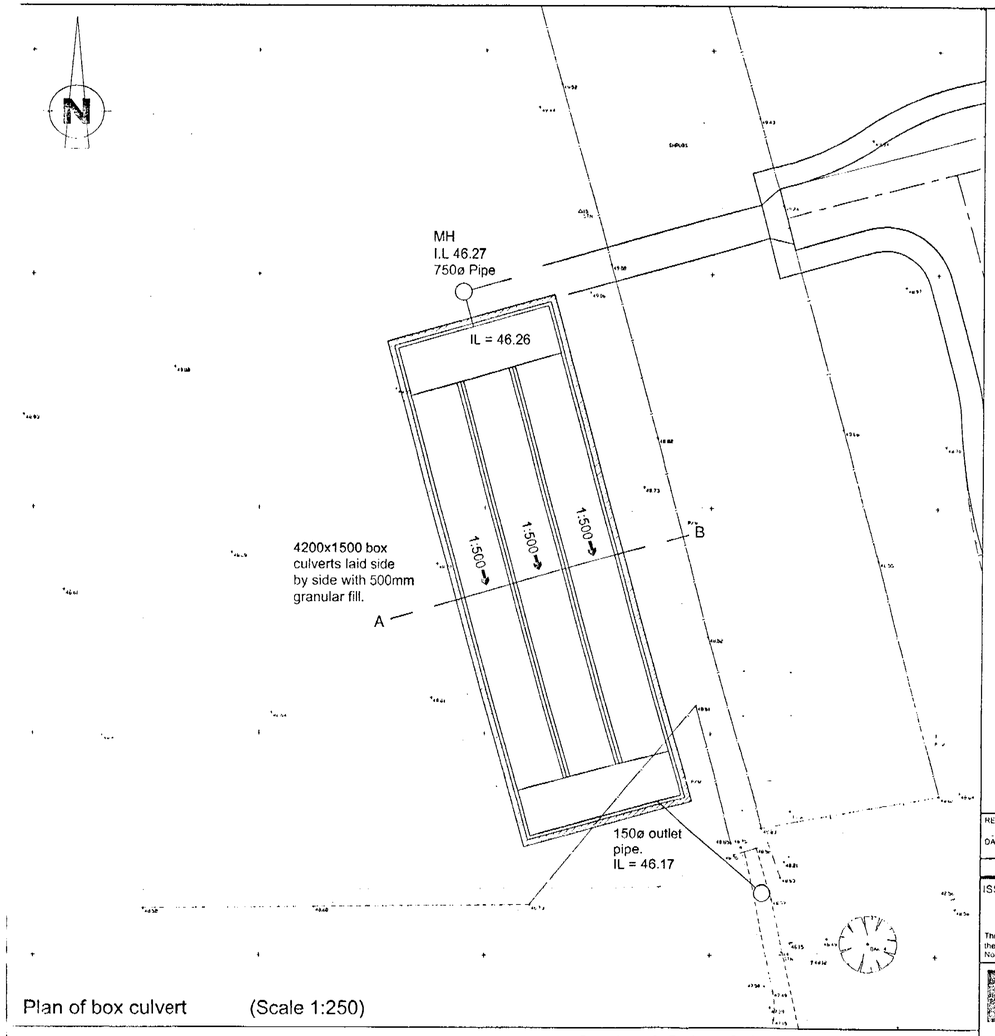
Crest NICHOLSON

Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

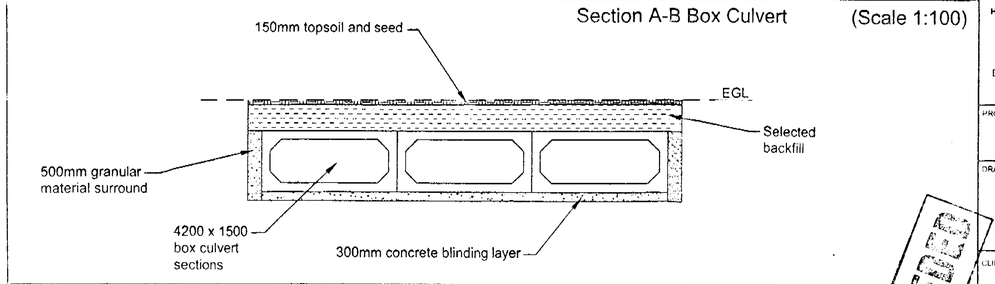
SCALE	ORIGINAL PAPER SIZE	DATE
as shown	A1	02.07.02

DRAWN BY	AUTHORISED BY	FILE REF
JE	RAS	Storm tank

DRAWING NUMBER	REVISION
JNY4268/510	A



Plan of box culvert (Scale 1:250)



Section A-B Box Culvert (Scale 1:100)

REV	DESCRIPTION	DRAWN
DATE		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

6592
10.5.02.

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PROJECT

Hollow Lane, Shinfield

DRAWING TITLE

ON LINE
BALANCING FACILITIES

CLIENT

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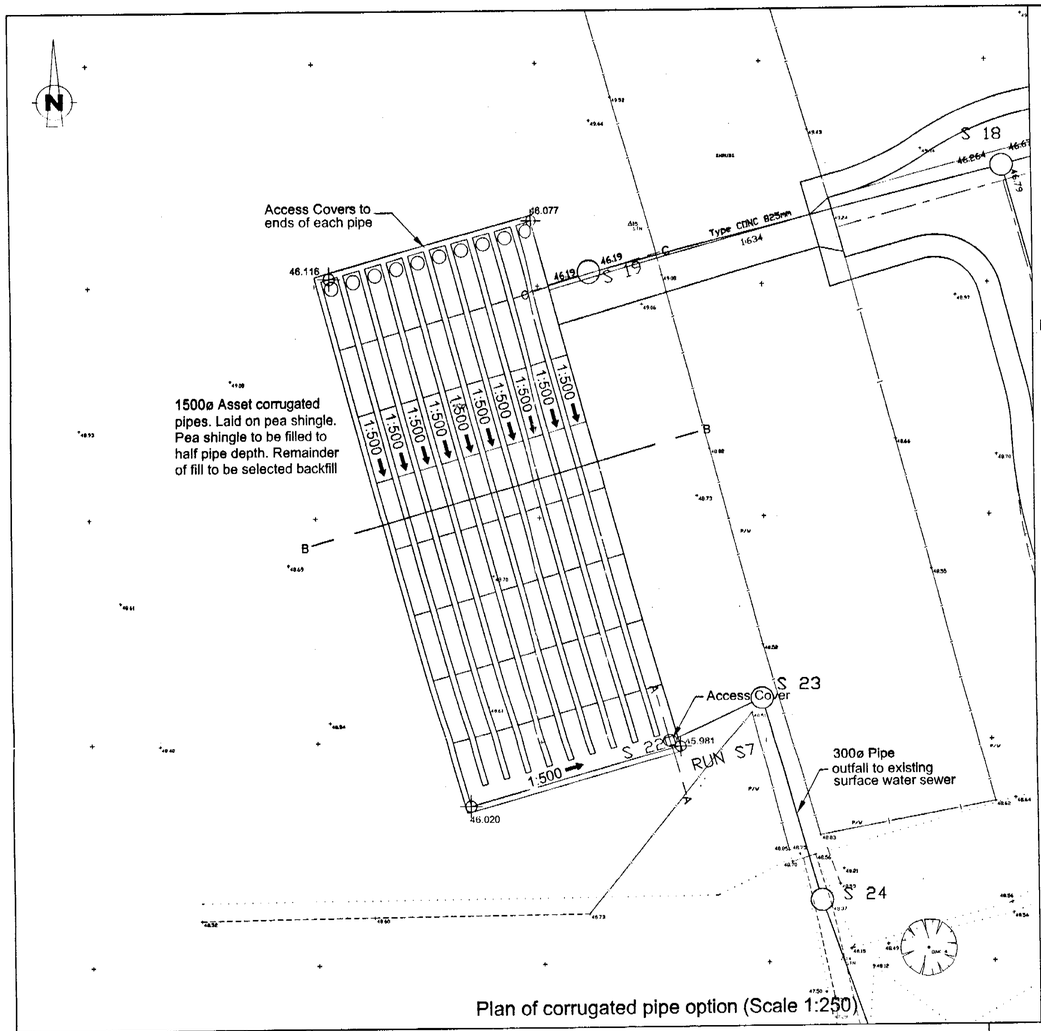
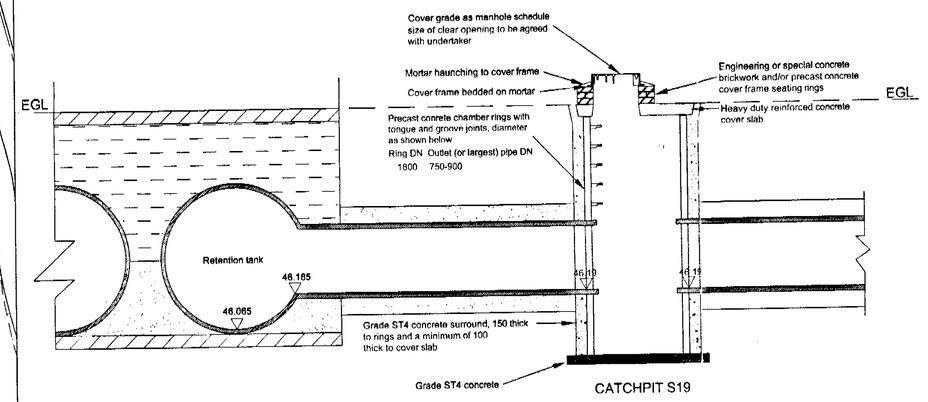
SCALE	ORIGINAL PAPER SIZE	DATE
AS SHOWN	A1	17.04.02
DRAWN BY: KLW	AUTHORISED BY:	FILE REF: TANK-OPTIONS
DRAWING NUMBER: JNY4268/07		REVISION: -



Plan of corrugated pipe option (Scale 1:250)



Section C-C Inlet / Catchpit S19(Not to scale)

Notes:

1. Do not scale from this drawing

2. All construction details to be approved by Thames Water Utilities and in accordance with sewers for adoption 5th edition.

3. All pipe sections to be designed and fabricated by Asset Weholite.

4. Details of orifice plate to be provided by manufacturer

MANHOLE SCHEDULE

Manhole Number / Coordinates	Cover Level	Connected	Invert Level	Pipe Diameter	Manhole Size	Type: Manhole	Type: Cover
S19 E 964.6090 N 949.2780	48.270	1 S1000 1.500 0	46.19 46.25	1500 1500	1800	CATCHPIT	Heavy
S22 E 972.7317 N 797.5546	48.720	S1000 1.500 1 2	45.981 46.185	1500 300	N/A	TYPE B	Heavy
S23 E 966.7909 N 799.1979	48.501	1 0	45.981 45.981	300 300	1200	TYPE B	Heavy
S24 E 966.7938 N 795.4979	48.370	1 0	45.981 45.981	300 300	1200	TYPE B	Heavy

F/2002/6591+6592

REVISED PLAN

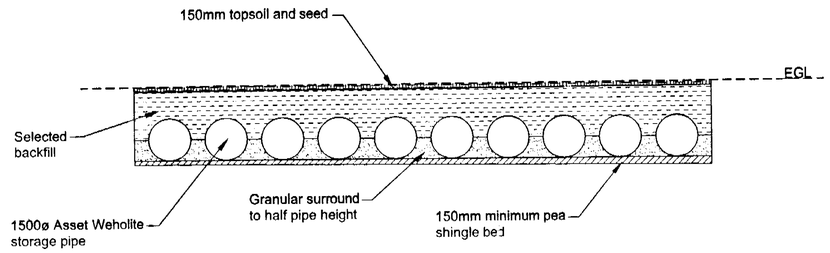
REV	DESCRIPTION	DRAWN
A	Top manifold removed from tank, dog leg on outfall added	DJG
DATE July/02		AUTHORISED

AMENDMENTS

ISSUE PURPOSE

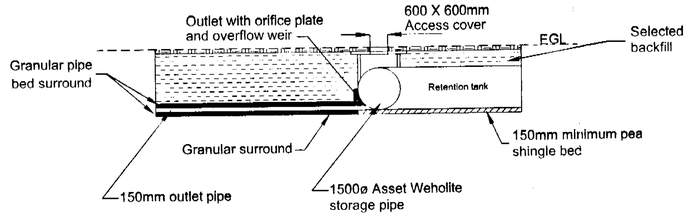
FOR APPROVAL

This drawing is issued solely for the purpose indicated by the original stamp in this box.
No stamp - Informative only



Section B-B Corrugated pipe (Scale 1:100)

APPROVED



Section A-A Outfall including hydrobrake (Scale 1:100)

RPS Planning, Transport and Environment

HIGHWAYS & INFRASTRUCTURE

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PROJECT
Hollow Lane, Shinfield

DRAWING TITLE
STORM RETENTION TANK CONSTRUCTION DETAILS

CLIENT

Crest NICHOLSON

Crest Nicholson Residential (South) Ltd
Nicholson House
Unit 1, Headlands Business Park
Ringwood
Hants
Tel: 01425 489196 Fax: 01425 489197

SCALE	ORIGINAL PAPER SIZE	DATE
as shown	A1	02.07.02
DRAWN BY: JE	AUTHORISED BY: RAS	FILE REF: Storm tank
DRAWING NUMBER: JNY4268/510		REVISION: A