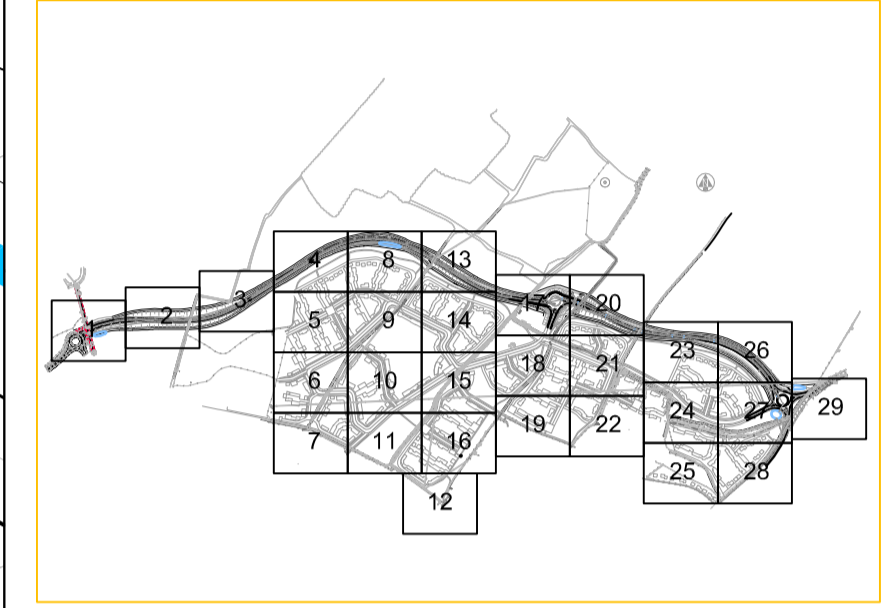


- ### NOTES
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 - DO NOT SCALE** FROM THIS DRAWING MANUALLY OR ELECTRONICALLY. WRITTEN PERMISSION MUST BE OBTAINED FROM MLM PRIOR TO SCALING ELECTRONICALLY OR USING THIS ELECTRONIC FILE.
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 - ROAD LAYOUT TAKEN FROM MLM DRAWINGS 612263/97_P1, 98_P1, 99_P1 & 100_P1.
 - INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



- ### LEGEND
- SITE BOUNDARY
 - SWALE
 - - - RILL
 - - - - - OVERFLOW
 - 5.000/450 PIPE NO./DIAMETER
 - POND
 - ATTENUATION CRATES

Rev	Date	Description	AS	JRC
P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC

Drawing Status: **PRELIMINARY**

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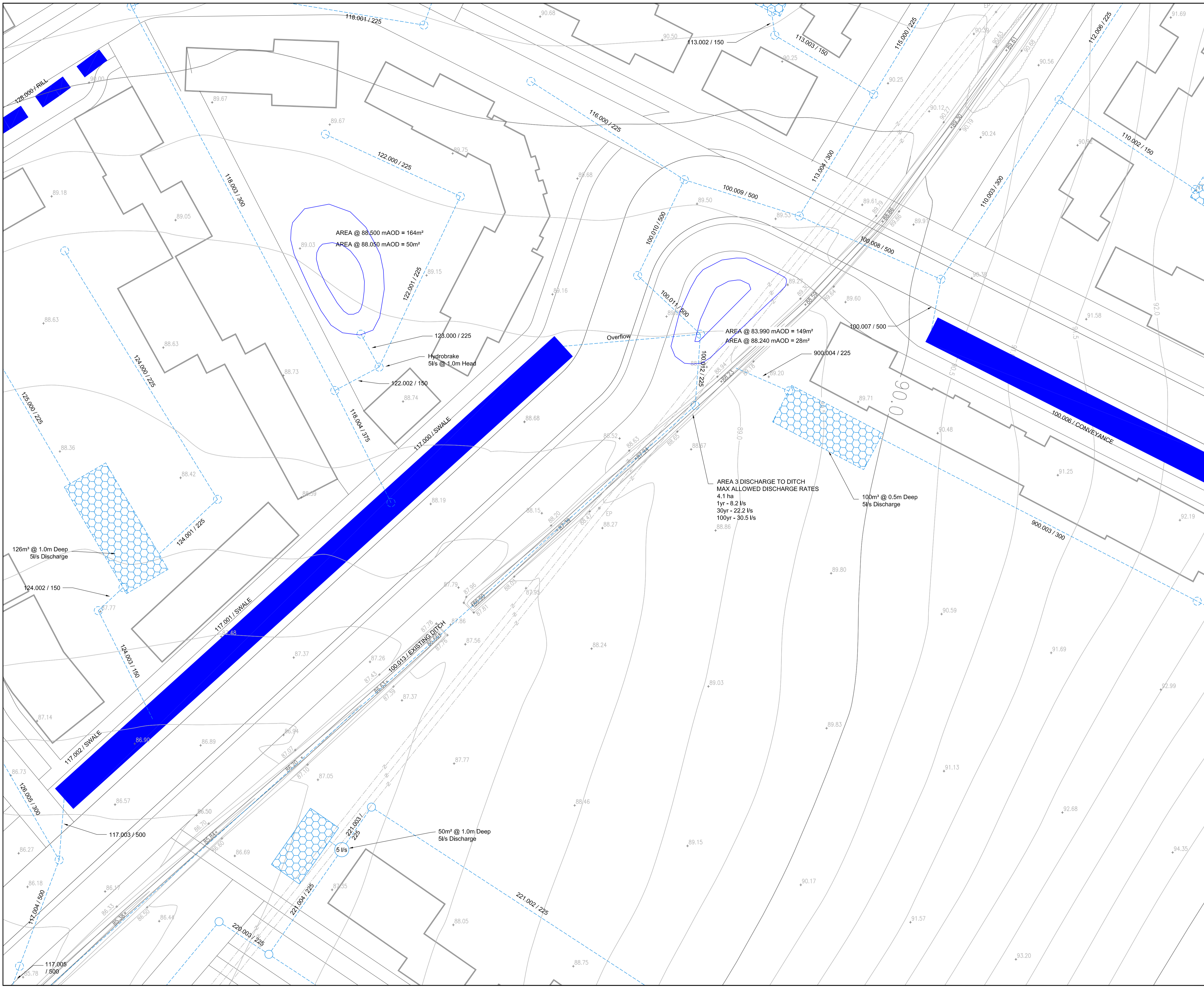
Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

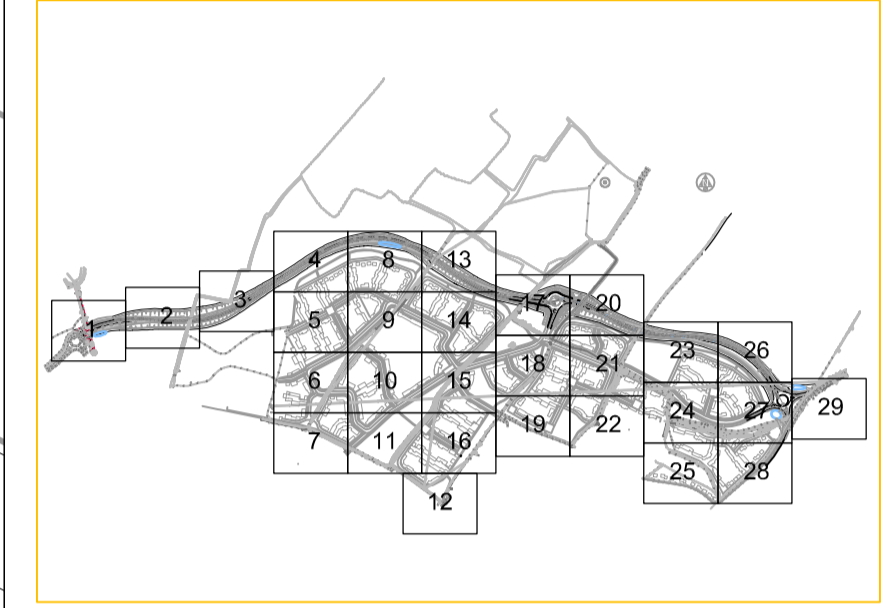
Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 8 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date
	AS		JRC		JJH	14.09.2010

Scales	Drawing No.	Rev
1:250 @ A1	612263/607	P1
1:500 @ A3		



- ### NOTES
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 8. ROAD LAYOUT TAKEN FROM MLM DRAWINGS 612263/97_P1, 98_P1, 99_P1 & 100_P1.
 9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW5100002-22 REVISION N.



- ### LEGEND
- SITE BOUNDARY
 - SWALE
 - RILL
 - OVERFLOW
 - 5.000/450 PIPE NO./DIAMETER
 - POND
 - ATTENUATION CRATES

Rev	Date	Description	Made	Checked
P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC

Drawing Status: **PRELIMINARY**



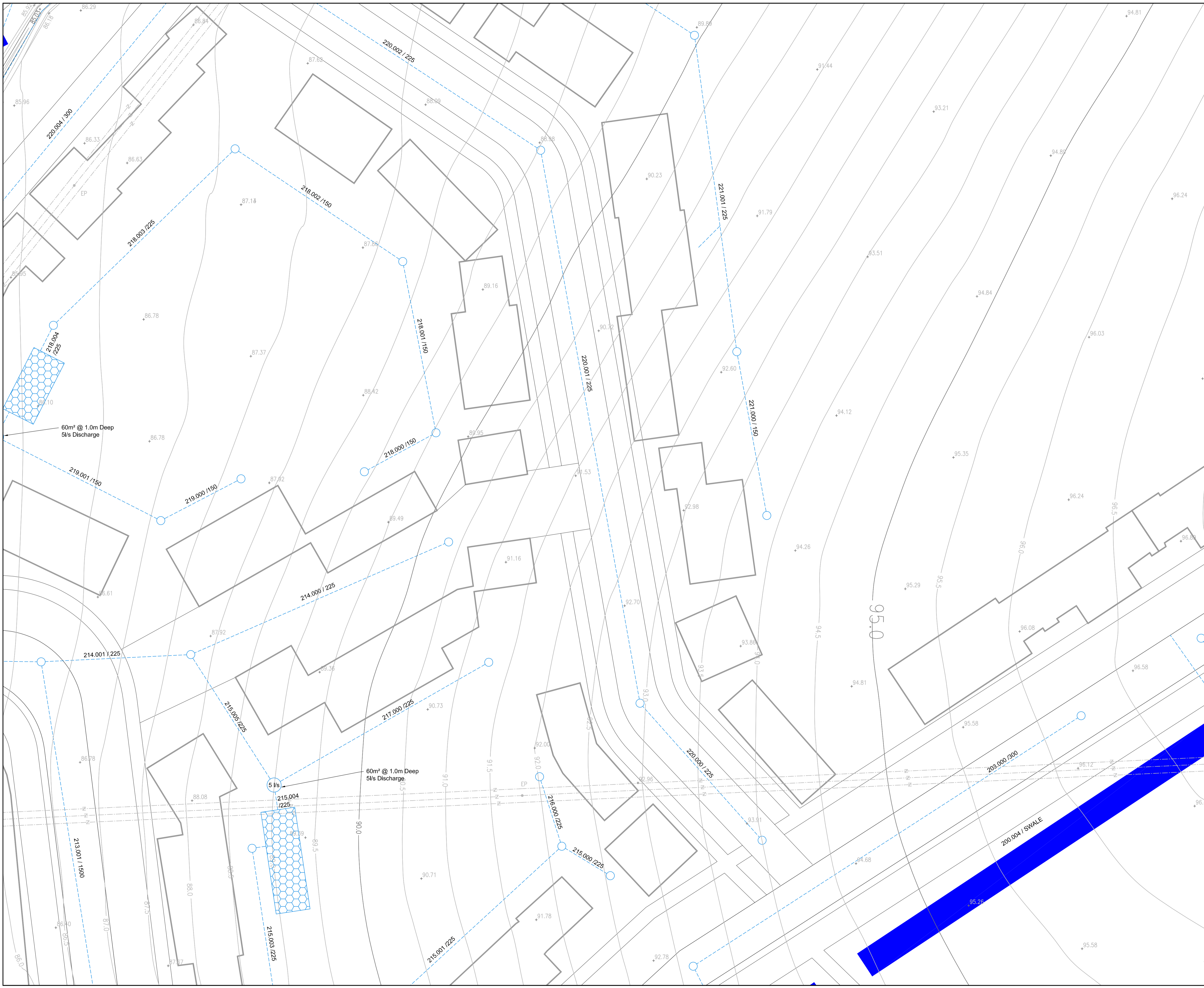
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Client
NORTH WEST HAVERHILL LANDOWNERS CONSORTIUM

Project
NORTH WEST HAVERHILL URBAN EXTENSION

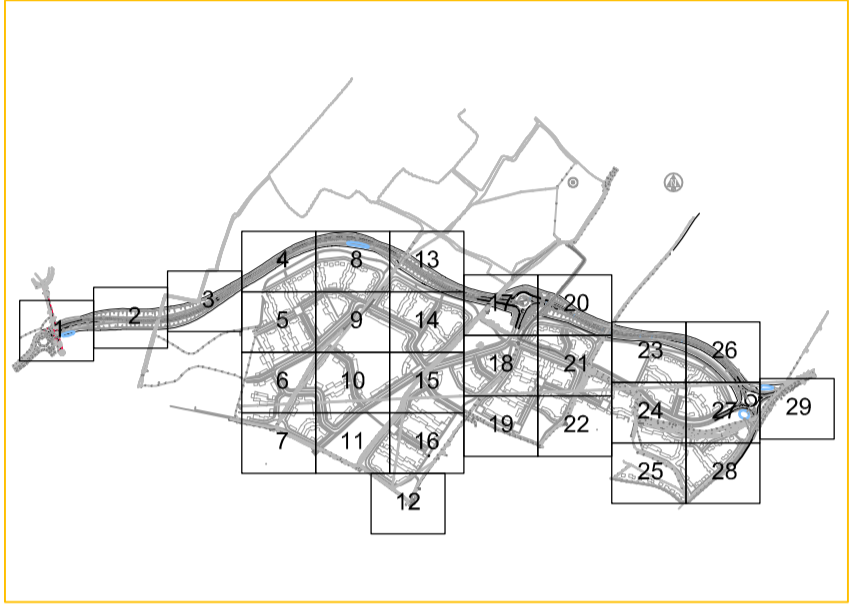
Drawing Title
SURFACE WATER DRAINAGE STRATEGY SHEET 9 OF 29

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/608		Rev	P1



NOTES

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8. ROAD LAYOUT TAKEN FROM MLM DRAWINGS 612263/97_P1, 98_P1, 99_P1 & 100_P1.
9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- RILL
- - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

Rev	Date	Description	AS	JRC
P1	14.09.10	ISSUE FOR APPROVAL		

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Client
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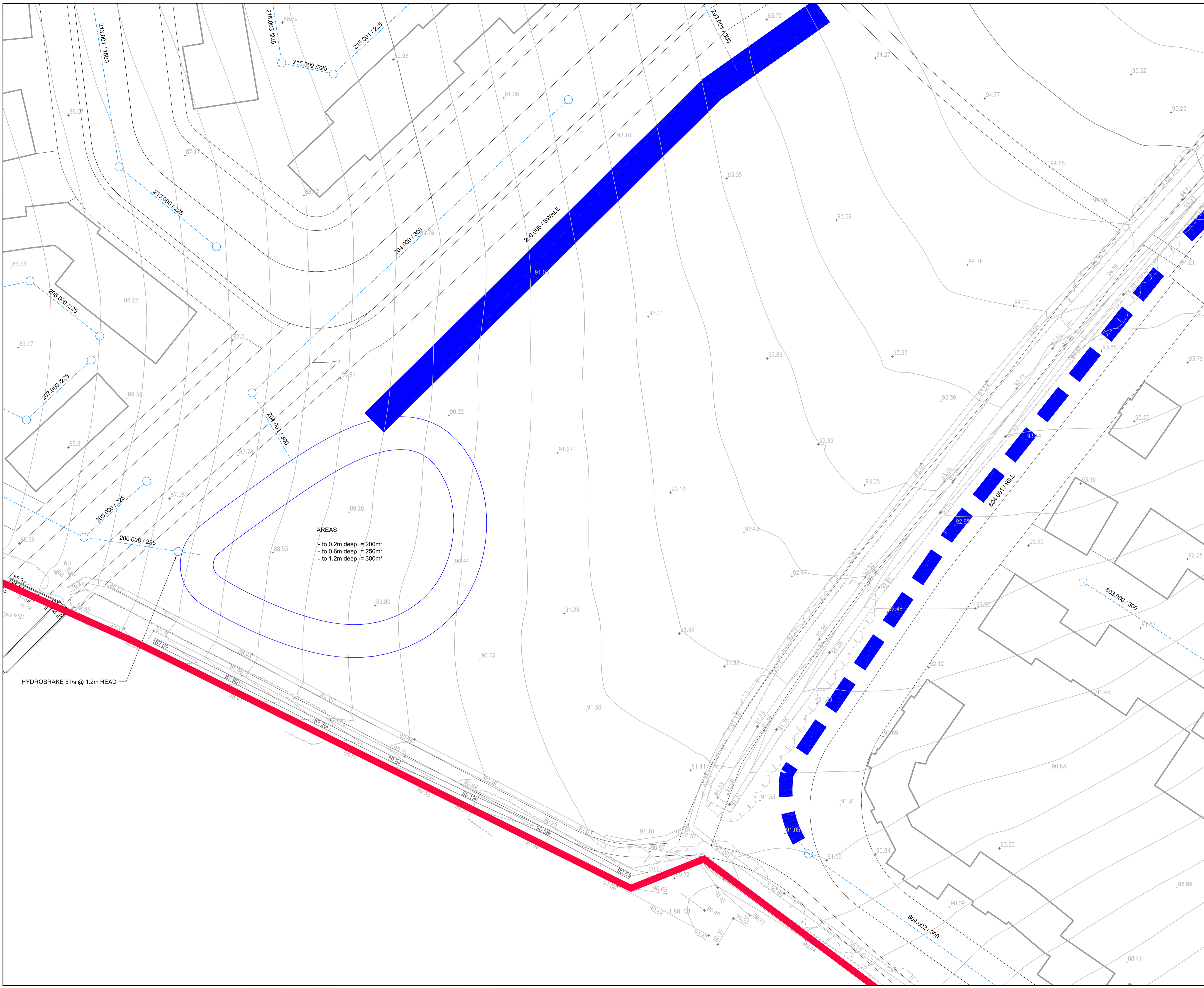
Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 10 OF 29**

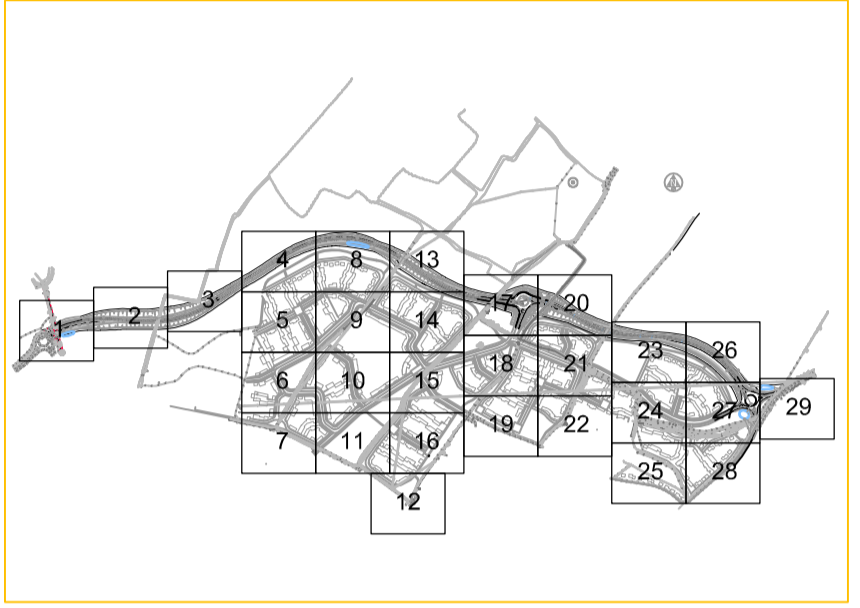
Drawn	AS	Checked	JRC	Approved	JJH	Date
						14.09.2010

Scales	AS	JRC	JJH	Rev
1:250	@ A1			
1:500	@ A3			

612263/609	P1
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- ### NOTES
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 9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



- ### LEGEND
- SITE BOUNDARY
 - SWALE
 - - - RILL
 - - - - - OVERFLOW
 - 5.000/450 PIPE NO./DIAMETER
 - POND
 - ATTENUATION CRATES

P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC
Rev	Date	Description	Made	Checked

Drawing Status: **PRELIMINARY**



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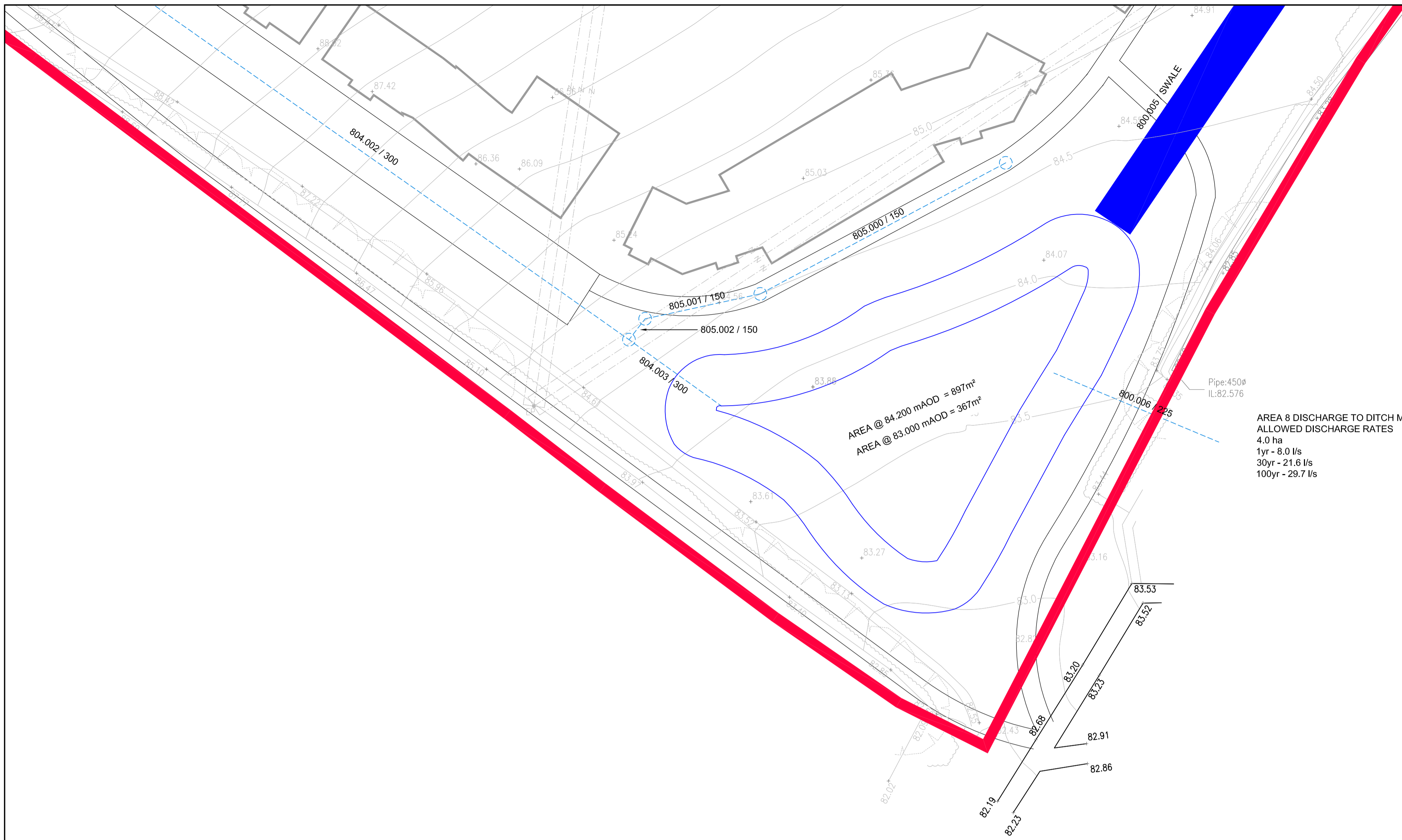
Ashford * Cambridge * Chelmsford * London * Norwich.

Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 11 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/610		Rev	P1

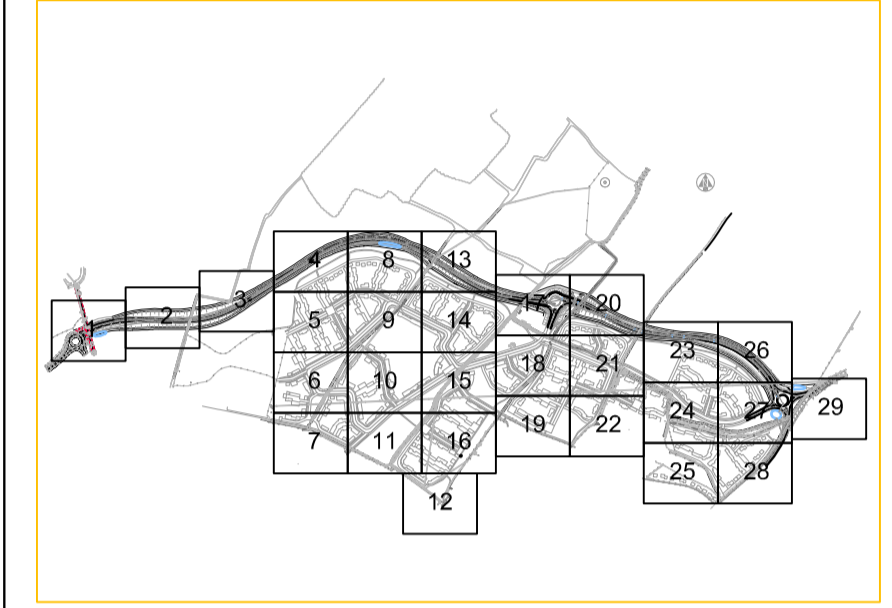


AREA @ 84.200 mAOD = 897m²
 AREA @ 83.000 mAOD = 367m²

AREA 8 DISCHARGE TO DITCH MAX
 ALLOWED DISCHARGE RATES
 4.0 ha
 1yr - 8.0 l/s
 30yr - 21.6 l/s
 100yr - 29.7 l/s

NOTES

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9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- RILL
- - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

Rev	Date	Description	Made	Checked
P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC

Drawing Status: **PRELIMINARY**

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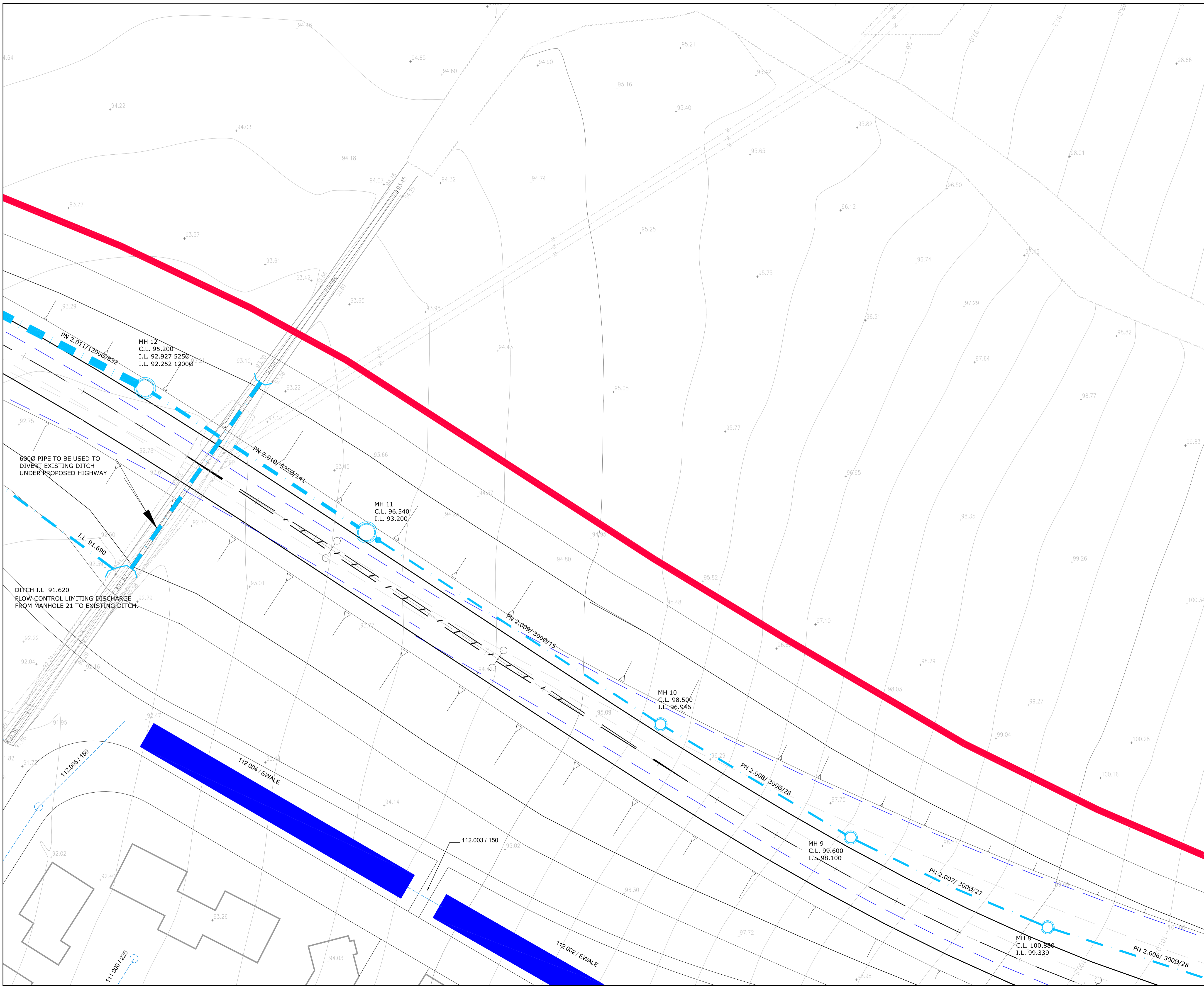
Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 12 OF 29**

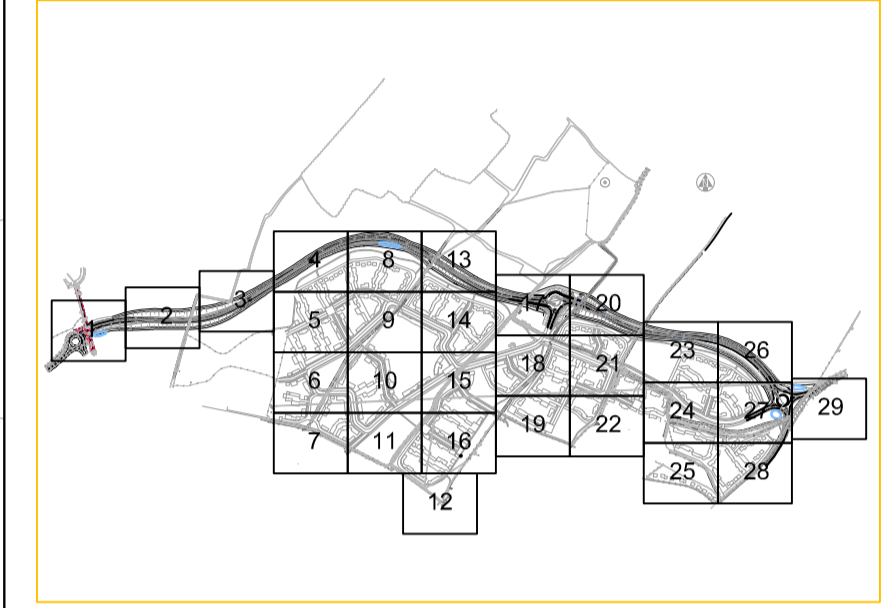
Drawn	Checked	Approved	Date
AS	JRC	JJH	14.09.2010

Scales 1:250 @ A1 1:500 @ A3	Drawing No. 612263/611	Rev P1
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9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- - - RILL
- - - - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

Rev	Date	Description	Made	Checked
P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC

Drawing Status: **PRELIMINARY**

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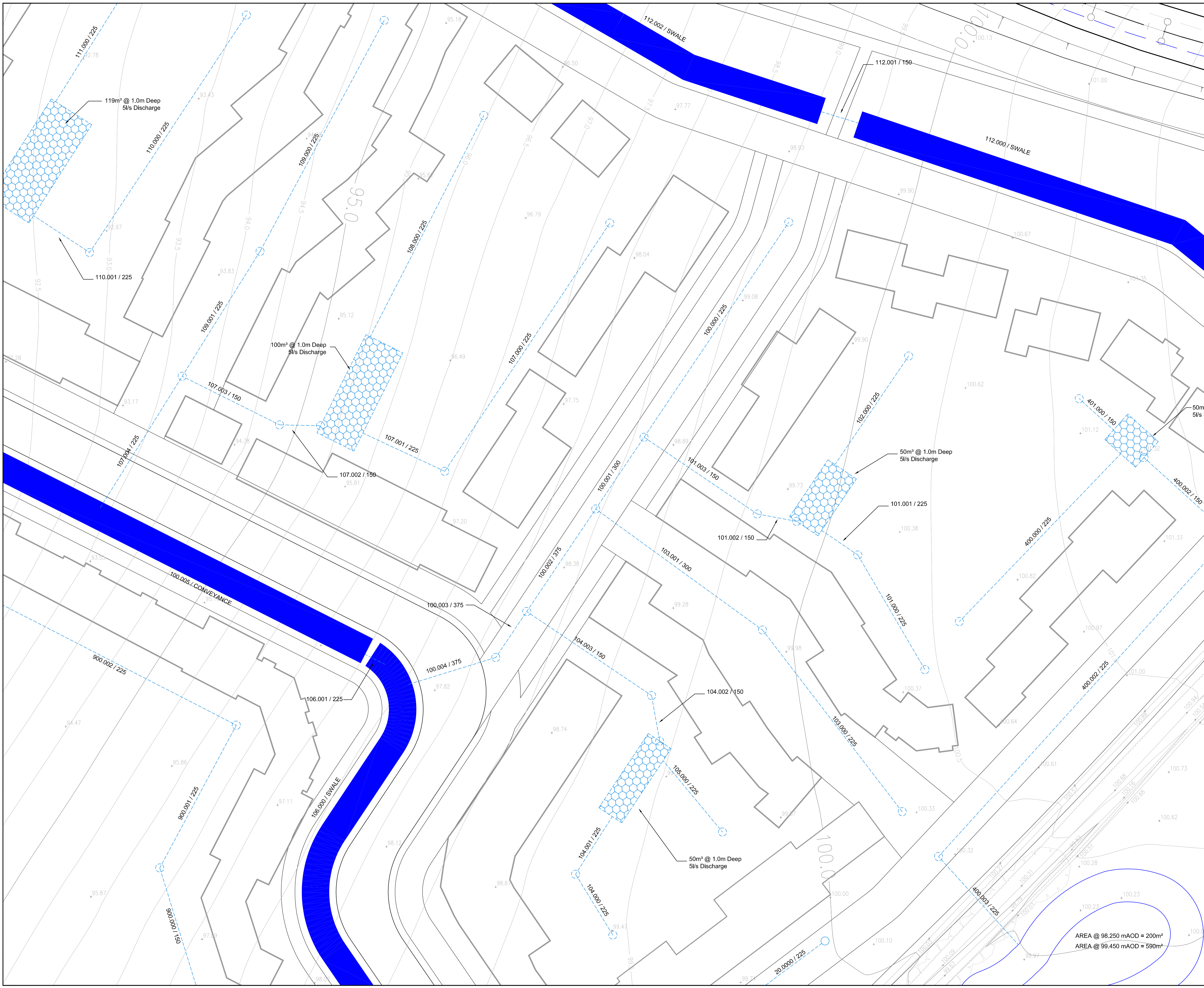
Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 13 OF 29**

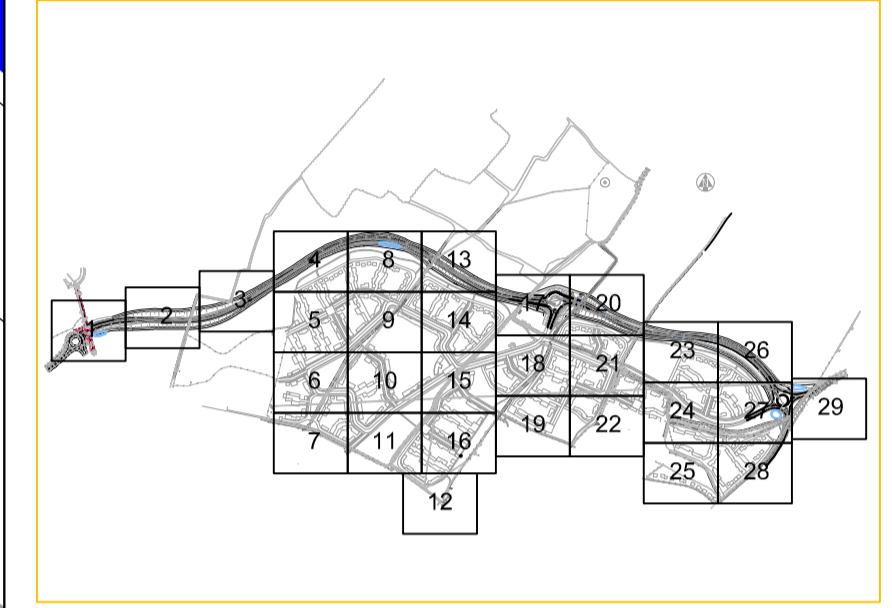
Drawn	Checked	JRC	Approved	JJH	Date
AS	JRC	JRC	JJH	JJH	14.09.2010

Scales 1:250 @ A1 1:500 @ A3	Drawing No. 612263/612	Rev P1
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NOTES

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9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- - - RILL
- - - - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC
Rev	Date	Description	Made	Checked

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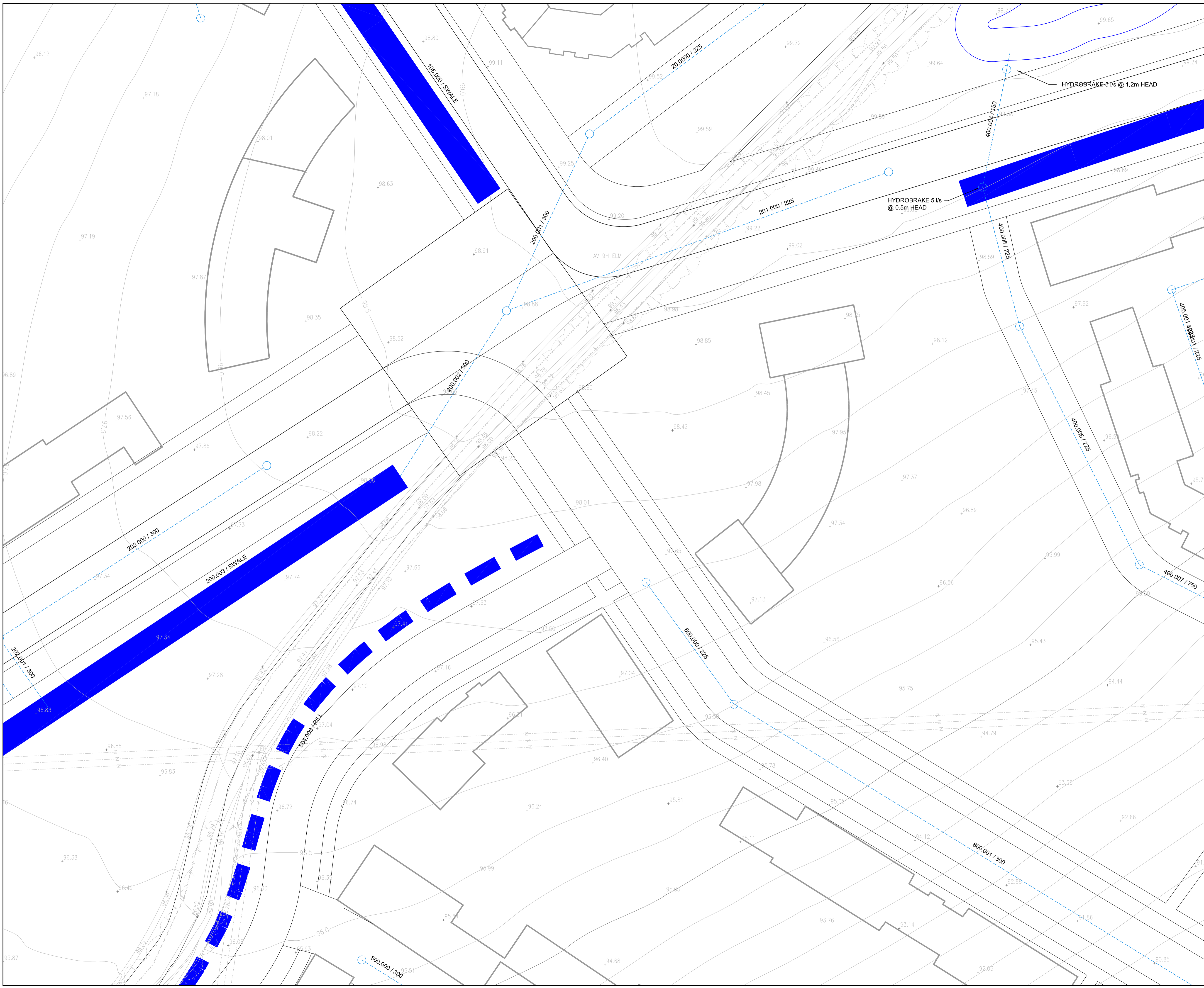
Client
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 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

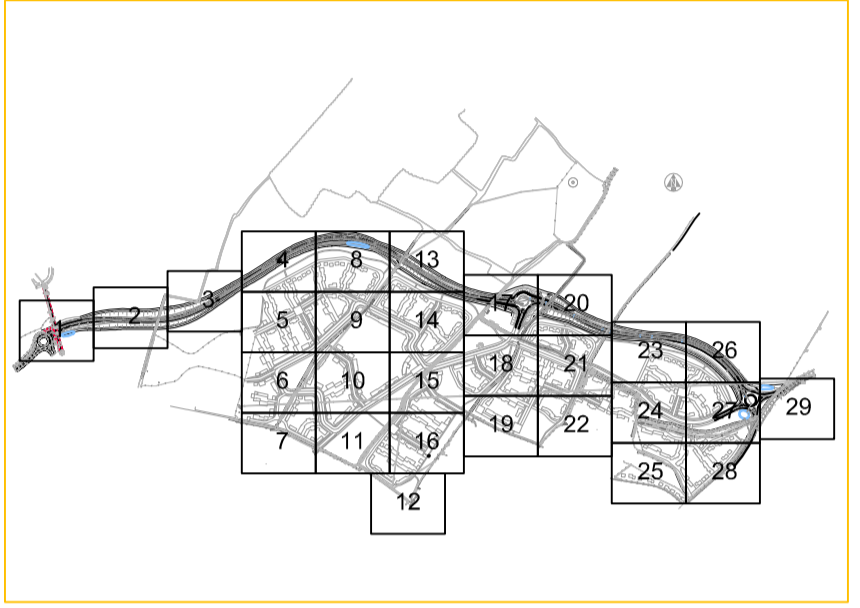
Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 14 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/613		Rev	P1

AREA @ 98.250 mAOD = 200m²
 AREA @ 99.450 mAOD = 590m²



- ### NOTES
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- ### LEGEND
- SITE BOUNDARY
 - SWALE
 - - - RILL
 - OVERFLOW
 - 5,000/450 PIPE NO./DIAMETER
 - POND
 - ATTENUATION CRATES

Rev	Date	Description	Made	Checked
P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC

Drawing Status: **PRELIMINARY**



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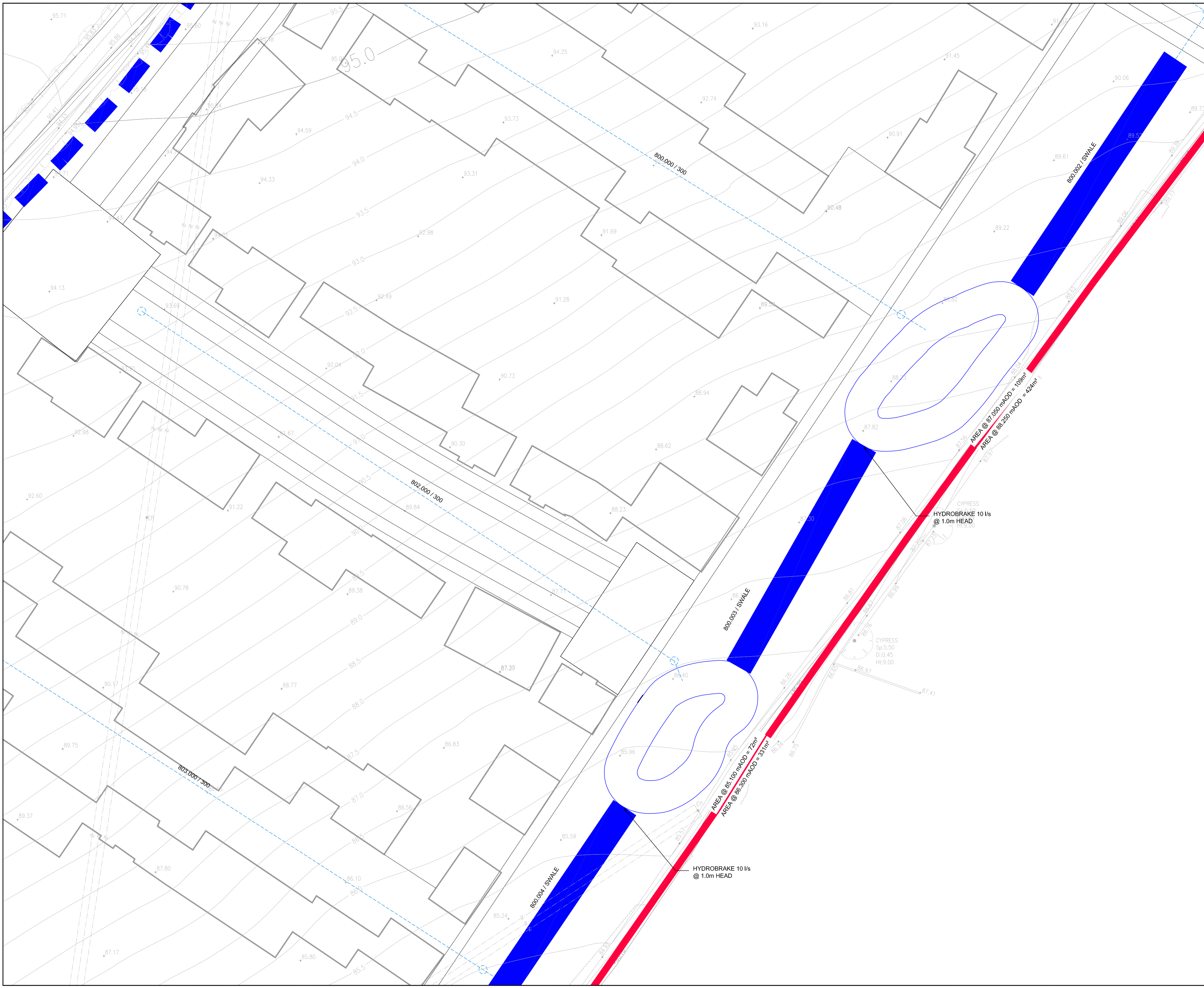
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Client
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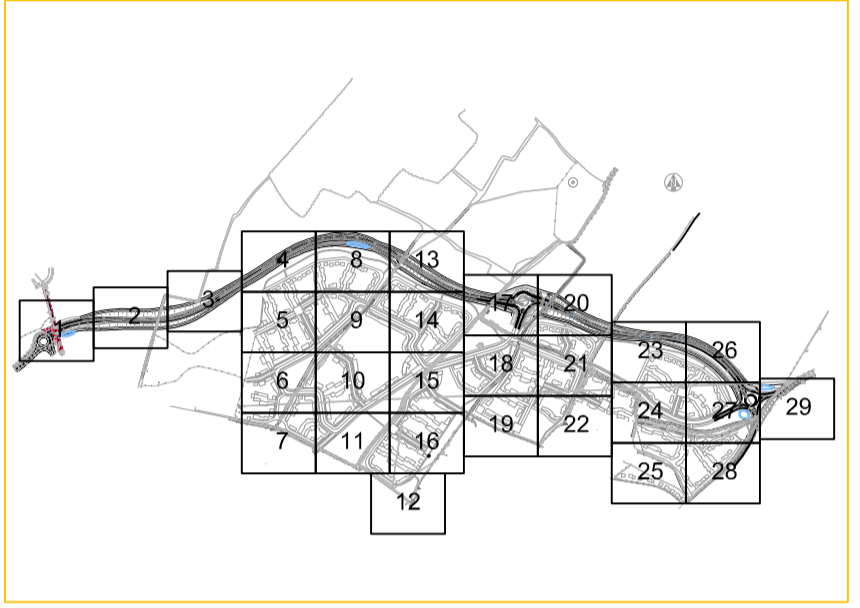
Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 15 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/614		Rev	P1



- ### NOTES
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 9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



- ### LEGEND
- SITE BOUNDARY
 - SWALE
 - RILL
 - OVERFLOW
 - 5.000/450 PIPE NO./DIAMETER
 - POND
 - ATTENUATION CRATES

P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC
Rev	Date	Description	Made	Checked

Drawing Status: **PRELIMINARY**



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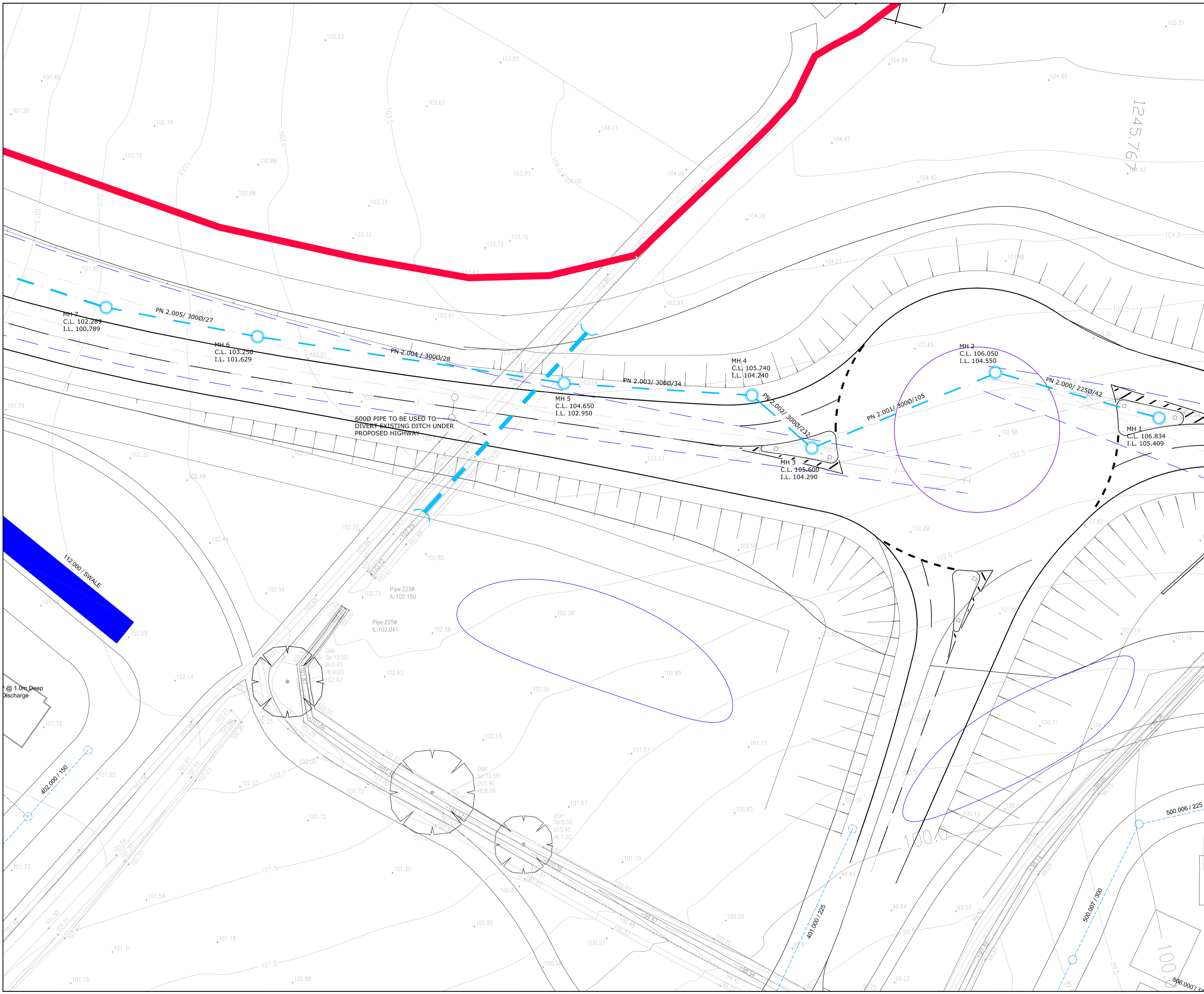
Ashford * Cambridge * Chelmsford * London * Norwich.

Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

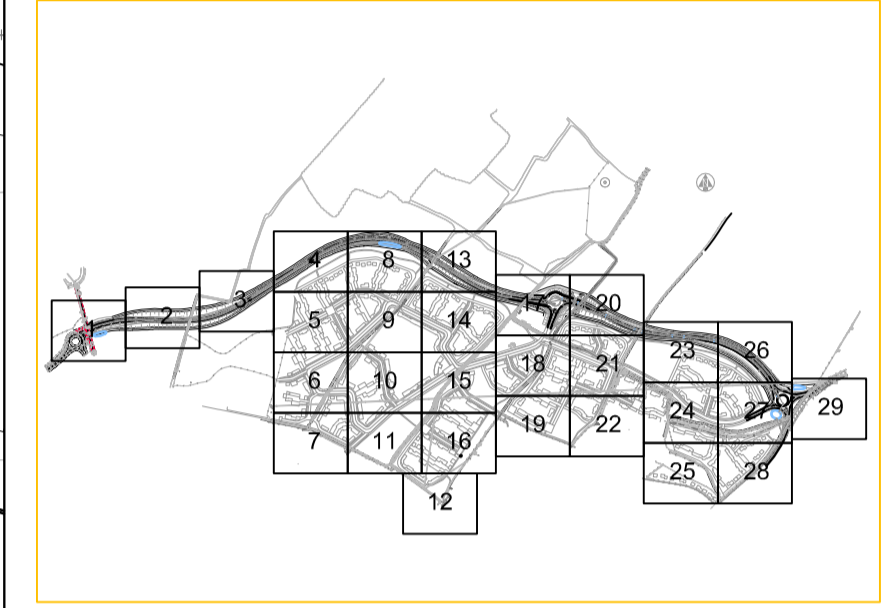
Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 16 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/615		Rev	P1



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.
2. **DO NOT SCALE** FROM THIS DRAWING MANUALLY OR ELECTRONICALLY. WRITTEN PERMISSION MUST BE OBTAINED FROM MLM PRIOR TO SCALING ELECTRONICALLY OR USING THIS ELECTRONIC FILE.
3. RAINWATER HARVESTING WILL BE ENCOURAGED THROUGHOUT THE DEVELOPMENT.
4. WHEREVER POSSIBLE, POSITIVELY DRAINED IMPERMEABLE SURFACING WILL BE KEPT TO A MINIMUM.
5. WHERE OTHER METHODS OF STORAGE ARE IMPRACTICAL, BELOW GROUND STORAGE CAN BE PROVIDED WITHIN THE SUB-BASE OF PERMEABLE PAVING, FRENCH DRAINS, OR IN CRATES/TANKS
6. WHEREVER POSSIBLE, BELOW GROUND TANKS/ CRATES WILL BE LIMITED TO ROOF WATER OR STORAGE OF EXTREME STORM EVENTS WHERE THE RISK OF POLLUTION IS LESS.
7. OPEN WATER FEATURES SUCH AS DETENTION BASINS AND SWALES LOCATED IN PUBLIC OPEN SPACE ARE LIKELY TO BE ADOPTED BY ST. EDMUNDSBURY BOROUGH COUNCIL. OTHER STORAGE LOCATED IN PRIVATE AREAS WILL REMAIN PRIVATE.
8. ROAD LAYOUT TAKEN FROM MLM DRAWINGS 612263/97_P1, 98_P1, 99_P1 & 100_P1.
9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- - - RILL
- - - - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC
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Drawing Status: **PRELIMINARY**

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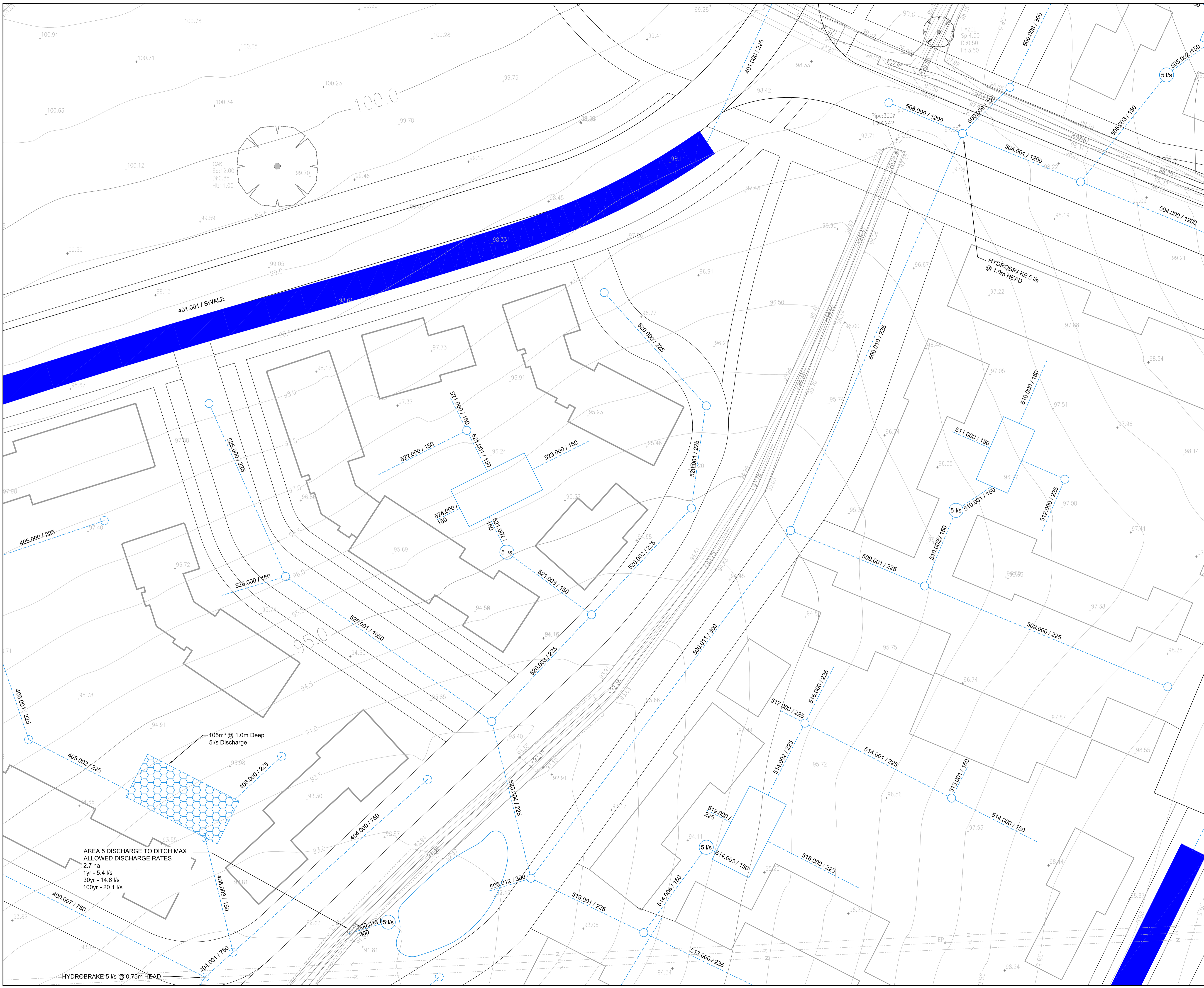
Ashford * Cambridge * Chelmsford * London * Norwich.

Client
**NORTH WEST HAVERHILL
 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

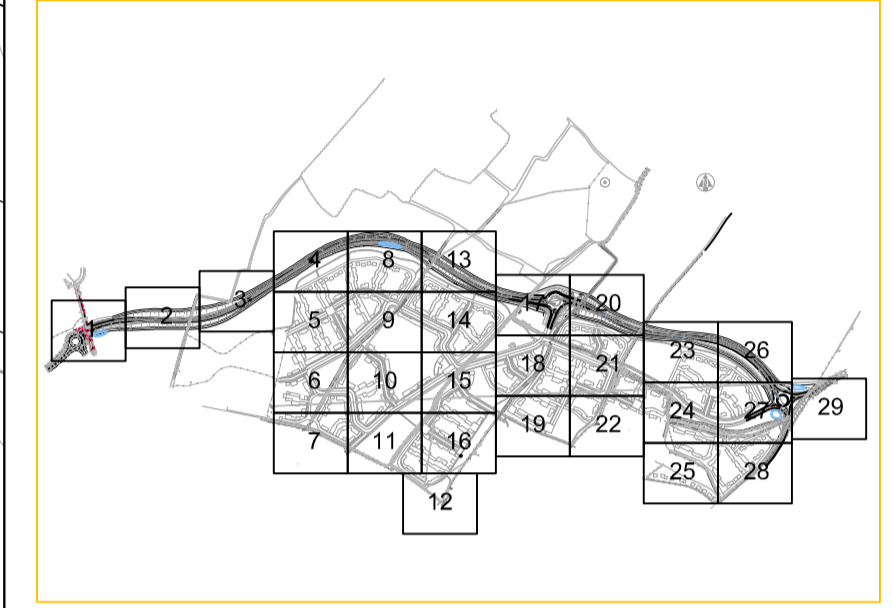
Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 17 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/616		Rev	P1



NOTES

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8. ROAD LAYOUT TAKEN FROM MLM DRAWINGS 612263/97_P1, 98_P1, 99_P1 & 100_P1.
9. INDICATIVE PROPOSED DEVELOPMENT LAYOUT TAKEN FROM BIDWELLS DRAWING SW51000002-22 REVISION N.



LEGEND

- SITE BOUNDARY
- SWALE
- RILL
- - - OVERFLOW
- 5.000/450 PIPE NO./DIAMETER
- POND
- ATTENUATION CRATES

P1	14.09.10	ISSUE FOR APPROVAL	AS	JRC
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 LANDOWNERS CONSORTIUM**

Project
**NORTH WEST HAVERHILL
 URBAN EXTENSION**

Drawing Title
**SURFACE WATER
 DRAINAGE STRATEGY
 SHEET 18 OF 29**

Drawn	AS	Checked	JRC	Approved	JJH	Date	14.09.2010
Scales	1:250 @ A1	1:500 @ A3	Drawing No.	612263/617		Rev	P1