

# **A12 Chelmsford to A120 widening scheme TR010060**

## **6.3 ENVIRONMENTAL STATEMENT APPENDIX 14.6 SURFACE WATER DRAINAGE STRATEGY ANNEX A – PART 2**

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009

Volume 6

August 2022

## Infrastructure Planning

### Planning Act 2008

# A12 Chelmsford to A120 widening scheme Development Consent Order 202[ ]

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## ENVIRONMENTAL STATEMENT APPENDIX 14.6 SURFACE WATER DRAINAGE STRATEGY ANNEX A – PART 2

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|   |  |
|---|--|
| <b>Regulation Reference</b>                   | Regulation 5(2)(a)                     |
| <b>Planning Inspectorate Scheme Reference</b> | TR010060                               |
| <b>Application Document Reference</b>         | TR010060/APP/6.3                       |
| <b>Author</b>                                 | A12 Project Team and National Highways |

| <b>Version</b> | <b>Date</b> | <b>Status of Version</b> |
|----------------|-------------|--------------------------|
| Rev 1          | August 2022 | DCO Application          |



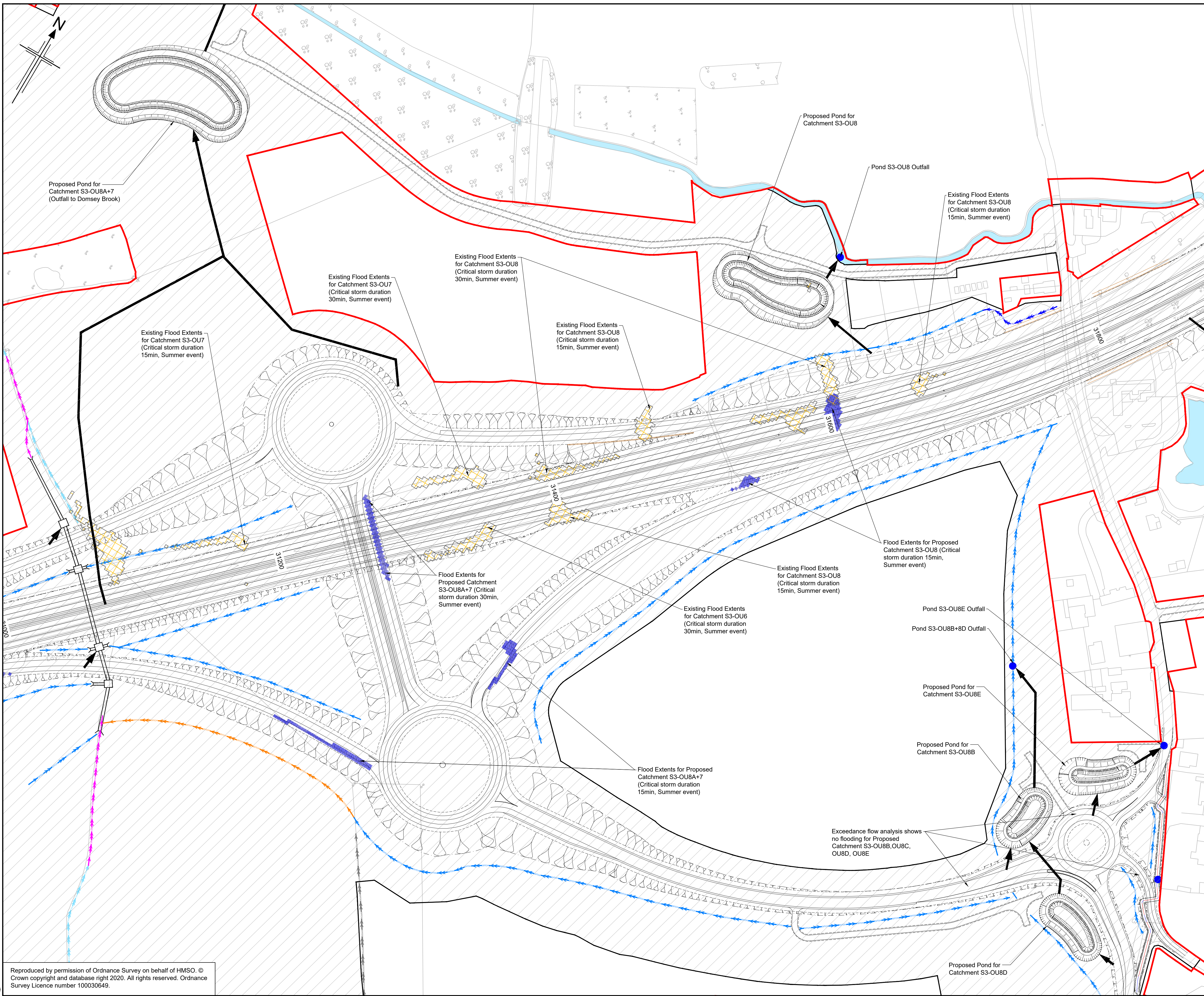








c:\pwworking\jacobs\_uk\_highways\_ssa\deshpavsu0155530\HE551497-JAC-LDC-S3-DR-D-0845.dwg - 7/25/2022 1:08:41 PM - A1Frame - DeshpavS



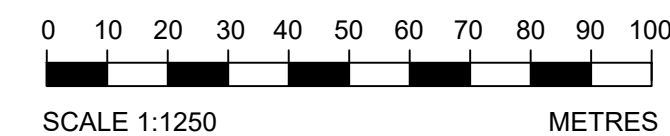
## SURFACE WATER DRAINAGE STRATEGY ANNEX A -PART 2

- NOTES
1. Drawing is to be printed in colour.
  2. Do not scale from this drawing, use only printed dimensions.
  3. This drawing is to be read in conjunction with the Surface Water Drainage Strategy Report documented in Appendix 14.6 of the Environmental Statement [TR010060/APP/6.3] and Drainage and Surface Water Plan [TR010060/APP/2.13], (Drawing number E551497-JAC-LDC-SCHW-DR-D-0814).
  4. The flood extents shown on these plans have been developed based on the proposed drainage design solutions and flood exceedance assessment undertaken at the preliminary drainage design stage.
  5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.
  6. No exceedance flow analysis has been undertaken for existing catchments: S3-OU8C & S3-OU8E.

- LEGEND
- Order Limits
  - Proposed Scheme Permanent Acquisition of Land Boundary
  - Proposed Highway Drainage Outfall
  - Proposed Attenuation Pond
  - Proposed Attenuation Pond Access Track
  - Proposed Underground Storage Units
  - Indicative Outfall Route
  - Proposed Swale/ Vegetated Ditch
  - Pre-Earthworks Drainage (proposed ditch)
  - Pre-Earthworks Drainage (existing ditch to be retained)
  - Pre-Earthworks Drainage (existing ditch to be abandoned)
  - Pre-Earthworks Drainage (diverted/regarded ditch)
  - Pre-Earthworks Drainage (proposed filter drain)
  - Pre-Earthworks Drainage (existing filter drain to be retained)
  - Minor Watercourse (to be retained)
  - Minor Watercourse (to be abandoned)
  - Minor Watercourse (proposed diversion)
  - Proposed watercourse diversion (main river)
  - Existing Waterbodies/ Main River

EXCEEDANCE FLOW ANALYSIS: 1 in 100 yr + 20%CC

- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding



|     |           |                           |       |         |       |         |
|-----|-----------|---------------------------|-------|---------|-------|---------|
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VD    | AM      | JT    | SG      |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

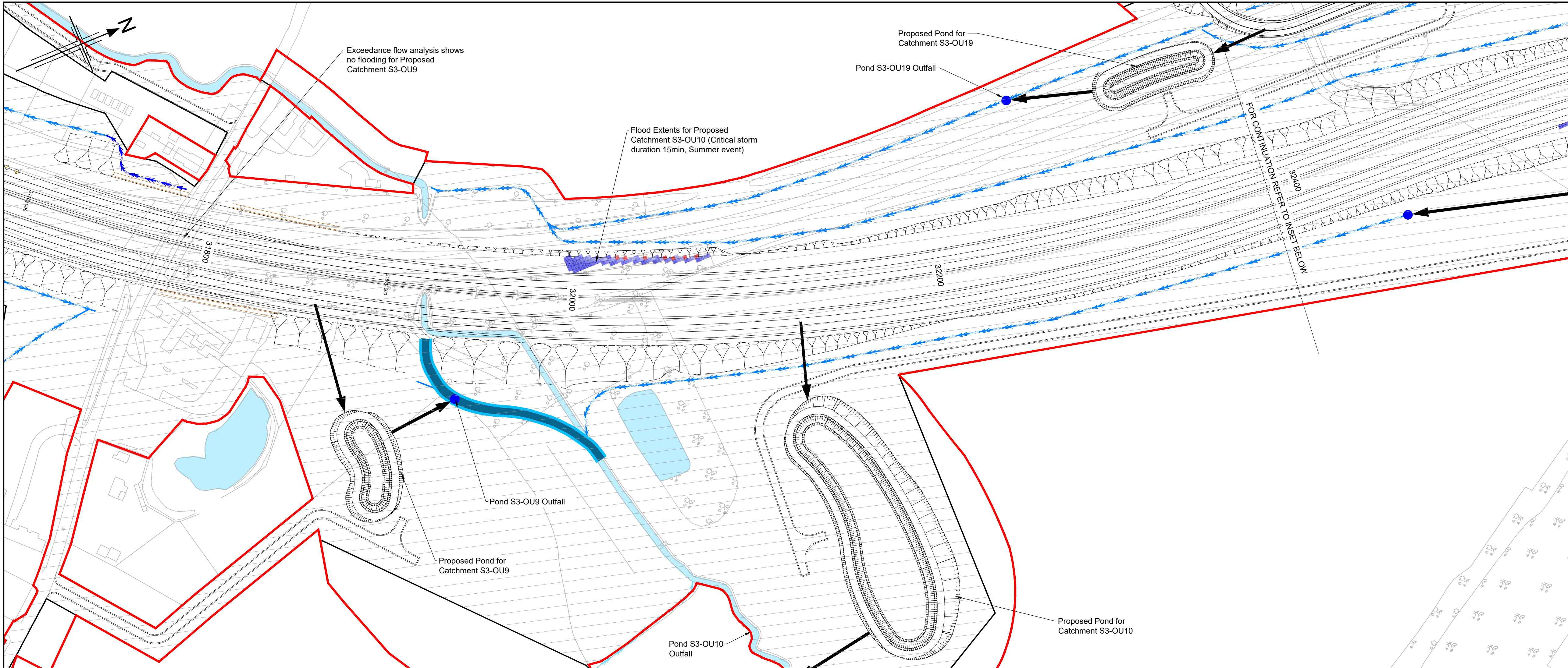
Drawing title

**EXCEEDANCE FLOW ANALYSIS**  
**100YR PLUS 20%CC EVENT**  
**PROPOSED CATCHMENTS-S3OU8A**  
**OU8B,OU8C,OU8D,OU8E,OU8&OU7**

|                         |                    |  |  |  |                |
|-------------------------|--------------------|--|--|--|----------------|
| Regulation              | REGULATION 5(2)(a) |  |  |  |                |
| Purpose of issue        | DCO APPLICATION    |  |  |  |                |
| State Code              | Preliminary        |  |  |  | Drawing status |
| Project Stage           | PCF 3              |  |  |  | S4             |
| Scale at A1 (841x594mm) | 1:1250             |  |  |  |                |
| Jacobs No.              | B36601D1           |  |  |  | Rev            |
| Client no.              | HE551497           |  |  |  | P01            |

|                |     |              |        |
|----------------|-----|--------------|--------|
| Drawing number | PIN | Originator   | Volume |
| HE551497 -     | JAC | LDC -        |        |
| S3             |     | -DR- D -0845 |        |





## SURFACE WATER DRAINAGE STRATEGY ANNEX A -PART 2

### NOTES

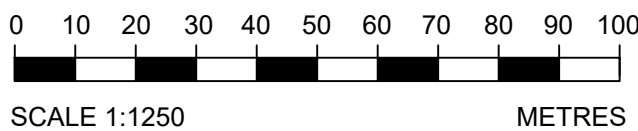
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4. The flood extents shown on these plans have been developed based on the proposed drainage design solutions and flood exceedance assessment undertaken at the preliminary drainage design stage.
5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.
6. No exceedance flow analysis has been undertaken for existing catchment; S3-OU19.

### LEGEND

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- Minor Watercourse (proposed diversion)
- Proposed watercourse diversion (main river)
- Existing Waterbodies/ Main River

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- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding



|     |           |                           |       |         |       |         |
|-----|-----------|---------------------------|-------|---------|-------|---------|
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VD    | AM      | JT    | SG      |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |

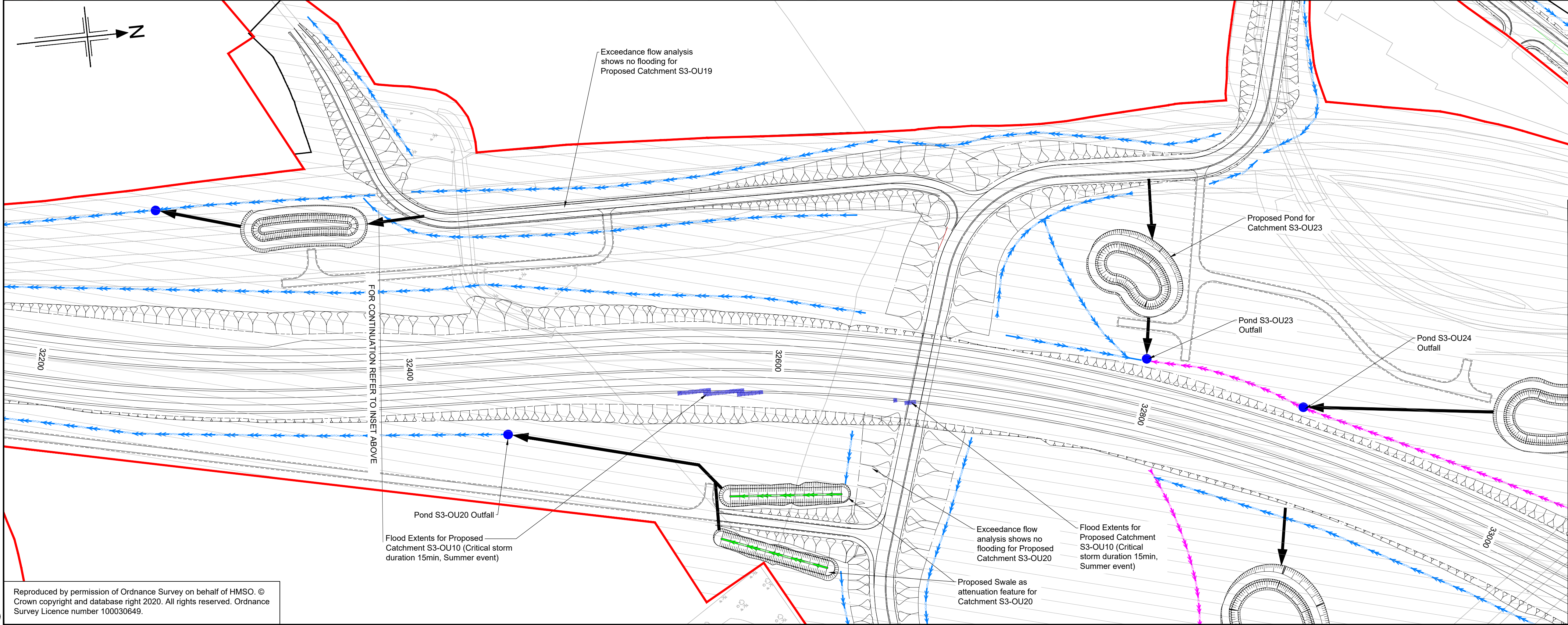
|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



A12 CHELMSFORD TO A120 WIDENING SCHEME

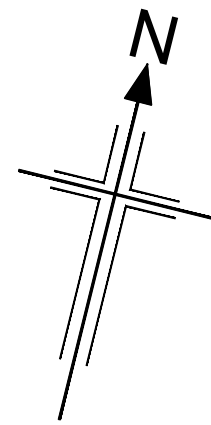
## EXCEEDANCE FLOW ANALYSIS 100YR PLUS 20%CC EVENT PROPOSED CATCHMENTS S3-OU9, OU10, OU19 & OU20

|                         |                    |
|-------------------------|--------------------|
| Regulation              | REGULATION 5(2)(a) |
| Purpose of issue        | DCO APPLICATION    |
| State Code              | Preliminary        |
| Project Stage           | PCF 3              |
| Scale at A1 (841x594mm) | 1:1250             |
| Jacobs No.              | B36601D1           |
| Client no.              | HE551497           |
| Drawing number          | PIN                |
| Originator              | JAC                |
| Volume                  | LDC                |
| Location                | S3                 |
| Type                    | -DR-               |
| Role                    | D                  |
| Number                  | 0846               |





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Exceedance flow analysis shows no flooding for Proposed Catchment S3-OU24

Exceedance flow analysis shows no flooding for Proposed Catchment S3-OU23

Proposed Pond for Catchment S3-OU24  
Pond S3-OU24 Outfall

Proposed Pond for Catchment S3-OU23

Pond S3-OU23 Outfall

Proposed Pond for Catchment S3-OU21  
Pond S3-OU21 Outfall

Proposed Pond for Catchment S3-OU22

Exceedance flow analysis shows no flooding for Proposed Catchment S3-OU22

Pond S3-OU22 Outfall

Flood Extents for Proposed Catchment S3-OU21 (Critical storm duration 30min, Summer event)

# SURFACE WATER DRAINAGE STRATEGY ANNEX A -PART 2

## NOTES

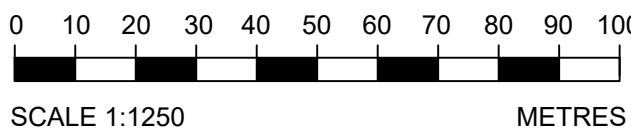
1. Drawing is to be printed in colour.
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5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.
6. No exceedance flow analysis has been undertaken for existing catchments; S3-OU23 and S3-OU24.

## LEGEND

- Order Limits
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- Indicative Outfall Route
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## EXCEEDANCE FLOW ANALYSIS: 1 in 100 yr + 20%CC

- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding



|     |           |                           |       |         |       |         |  |
|-----|-----------|---------------------------|-------|---------|-------|---------|--|
|     |           |                           |       |         |       |         |  |
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VD    | AM      | JT    | SG      |  |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |  |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



Project  
A12 CHELMSFORD TO A120 WIDENING SCHEME

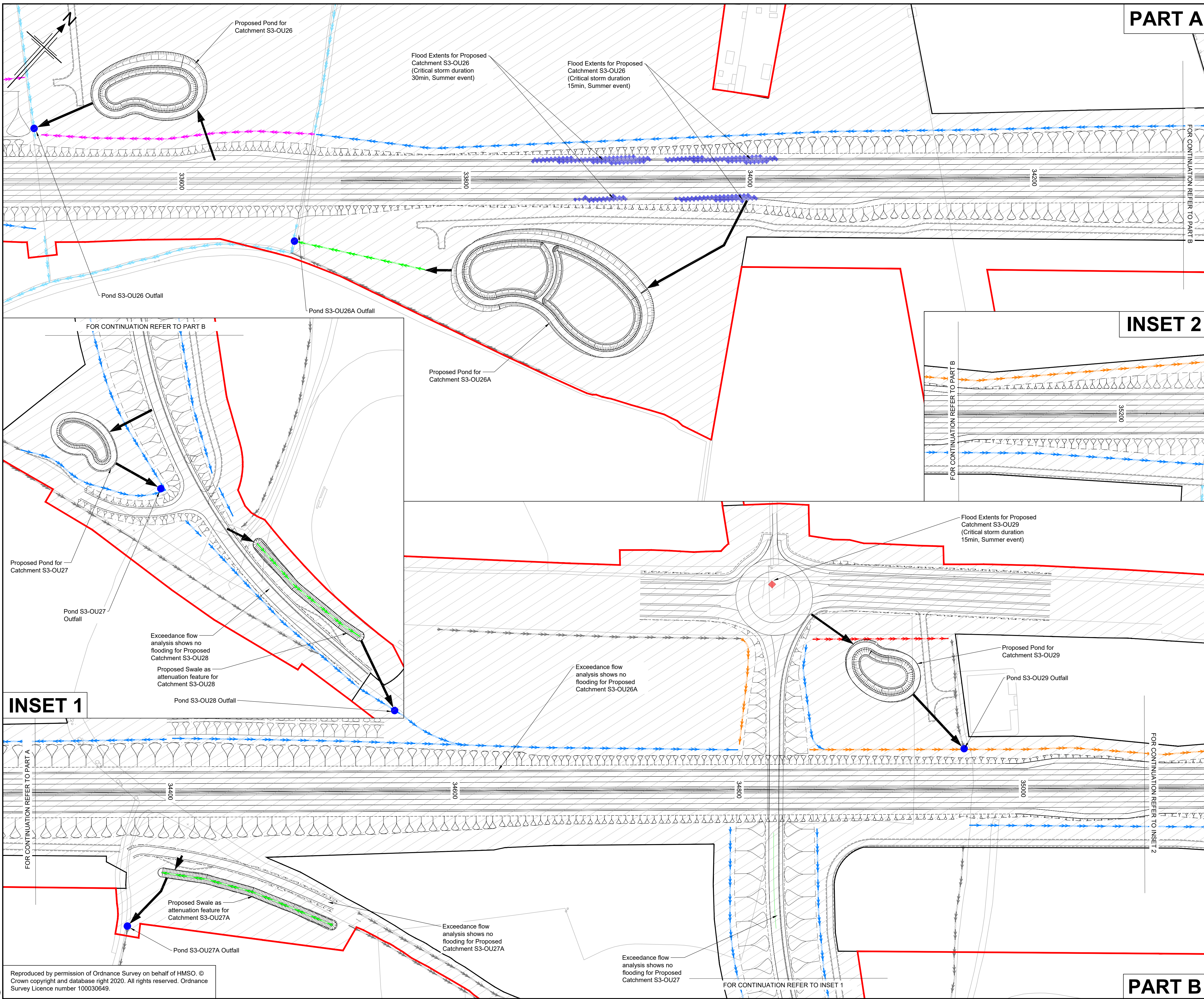
Drawing title  
**EXCEEDANCE FLOW ANALYSIS  
100YR PLUS 20%CC EVENT  
PROPOSED CATCHMENTS  
S3-OU21, OU22, OU23 & OU24**

|                         |                    |                |     |
|-------------------------|--------------------|----------------|-----|
| Regulation              | REGULATION 5(2)(a) |                |     |
| Purpose of issue        | DCO APPLICATION    |                |     |
| State Code              | Preliminary        |                |     |
| Project Stage           | PCF 3              | Drawing status |     |
| Scale at A1 (841x594mm) | 1:1250             | S4             |     |
| Jacobs No.              | B36601D1           | Rev            | P01 |
| Client no.              | HE551497           |                |     |

|                |      |            |        |
|----------------|------|------------|--------|
| Drawing number | PIN  | Originator | Volume |
| HE551497 -     | JAC  | LDC -      |        |
| S3             | -DR- | D -0847    |        |



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## PART A

## SURFACE WATER DRAINAGE STRATEGY ANNEX A -PART 2

### NOTES

1. Drawing is to be printed in colour.
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5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.
6. No exceedance flow analysis has been undertaken for existing catchment; S3-OU29.

### LEGEND

- Order Limits
- Proposed Scheme Permanent Acquisition of Land Boundary
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- Proposed watercourse diversion (main river)
- Existing Waterbodies/ Main River

### EXCEEDANCE FLOW ANALYSIS: 1 in 100 yr + 20%CC

- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding

0 10 20 30 40 50 60 70 80 90 100  
SCALE 1:1250 METRES

|     |           |                           |       |         |       |         |
|-----|-----------|---------------------------|-------|---------|-------|---------|
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VD    | AM      | JT    | SG      |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



A12 CHELMSFORD TO A120 WIDENING SCHEME

EXCEEDANCE FLOW ANALYSIS  
100YR PLUS 20%CC EVENT  
PROPOSED CATCHMENTS-S3OU26  
OU26A,OU27,OU27A,OU28&OU29

|                         |                    |  |  |  |                |
|-------------------------|--------------------|--|--|--|----------------|
| Regulation              | REGULATION 5(2)(a) |  |  |  |                |
| Purpose of issue        | DCO APPLICATION    |  |  |  |                |
| State Code              | Preliminary        |  |  |  | Drawing status |
| Project Stage           | PCF 3              |  |  |  | S4             |
| Scale at A1 (841x594mm) | 1:1250             |  |  |  | Rev            |
| Jacobs No.              | B36601D1           |  |  |  | P01            |
| Client no.              | HE551497           |  |  |  |                |

|                |     |              |        |
|----------------|-----|--------------|--------|
| Drawing number | PIN | Originator   | Volume |
| HE551497 -     | JAC | LDC -        |        |
| S3             |     | -DR- D -0848 |        |

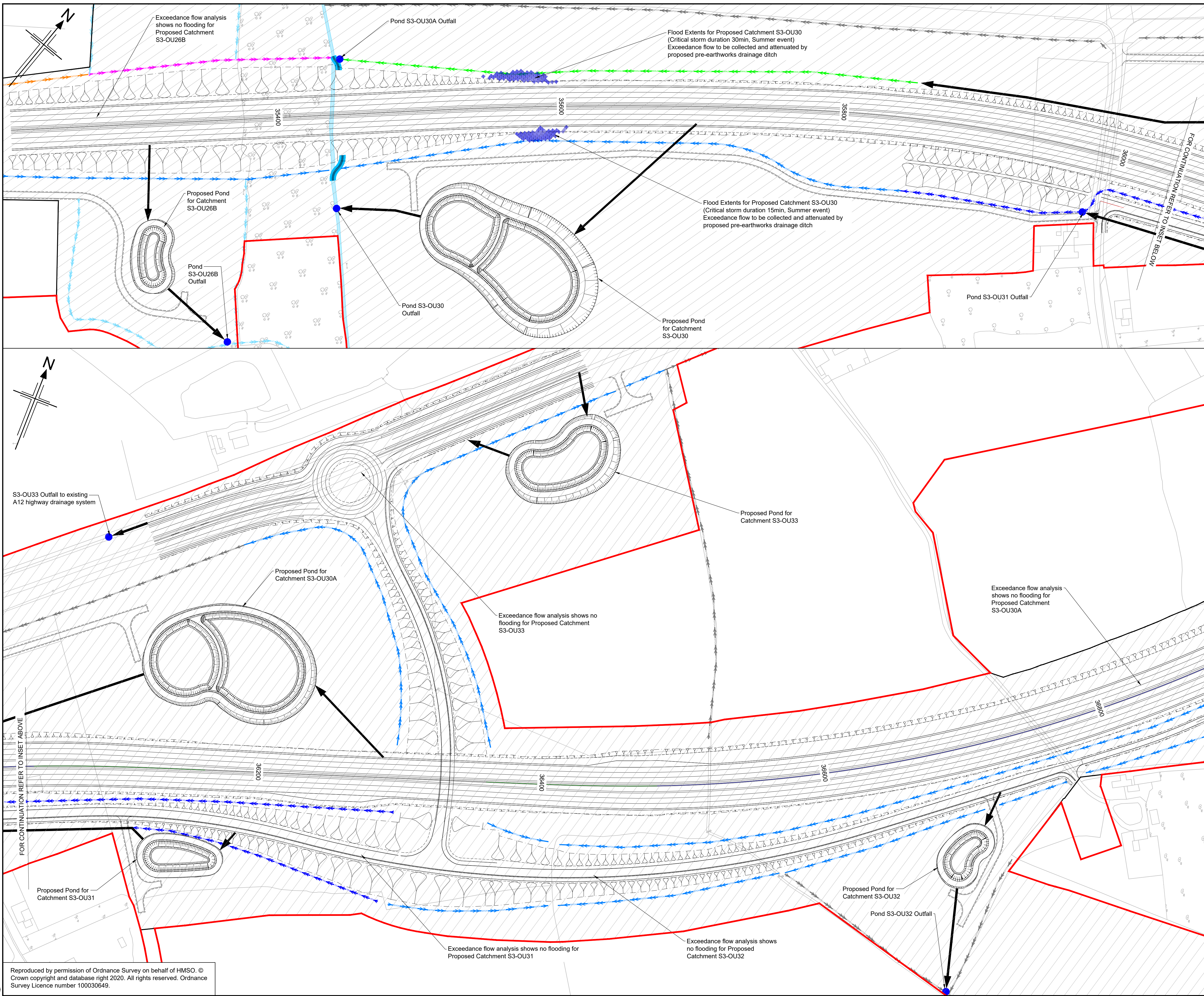
## PART B

## INSET 1

## INSET 2



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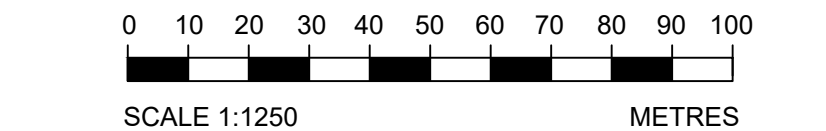
SURFACE WATER DRAINAGE STRATEGY  
ANNEX A -PART 2

- NOTES
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  4. The flood extents shown on these plans have been developed based on the proposed drainage design solutions and flood exceedance assessment undertaken at the preliminary drainage design stage.
  5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.
  6. No exceedance flow analysis has been undertaken for existing catchment; S3-OU33.

LEGEND

- Order Limits
- Proposed Scheme Permanent Acquisition of Land Boundary
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- Proposed Attenuation Pond
- Proposed Attenuation Pond Access Track
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- EXCEEDANCE FLOW ANALYSIS: 1 in 100 yr + 20%CC
- 10-100 mm Flood Depth
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  - >600 mm Flood Depth
  - Existing Flooding



|     |           |                           |       |         |       |         |  |
|-----|-----------|---------------------------|-------|---------|-------|---------|--|
|     |           |                           |       |         |       |         |  |
|     |           |                           |       |         |       |         |  |
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VP    | AM      | JT    | SG      |  |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |  |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

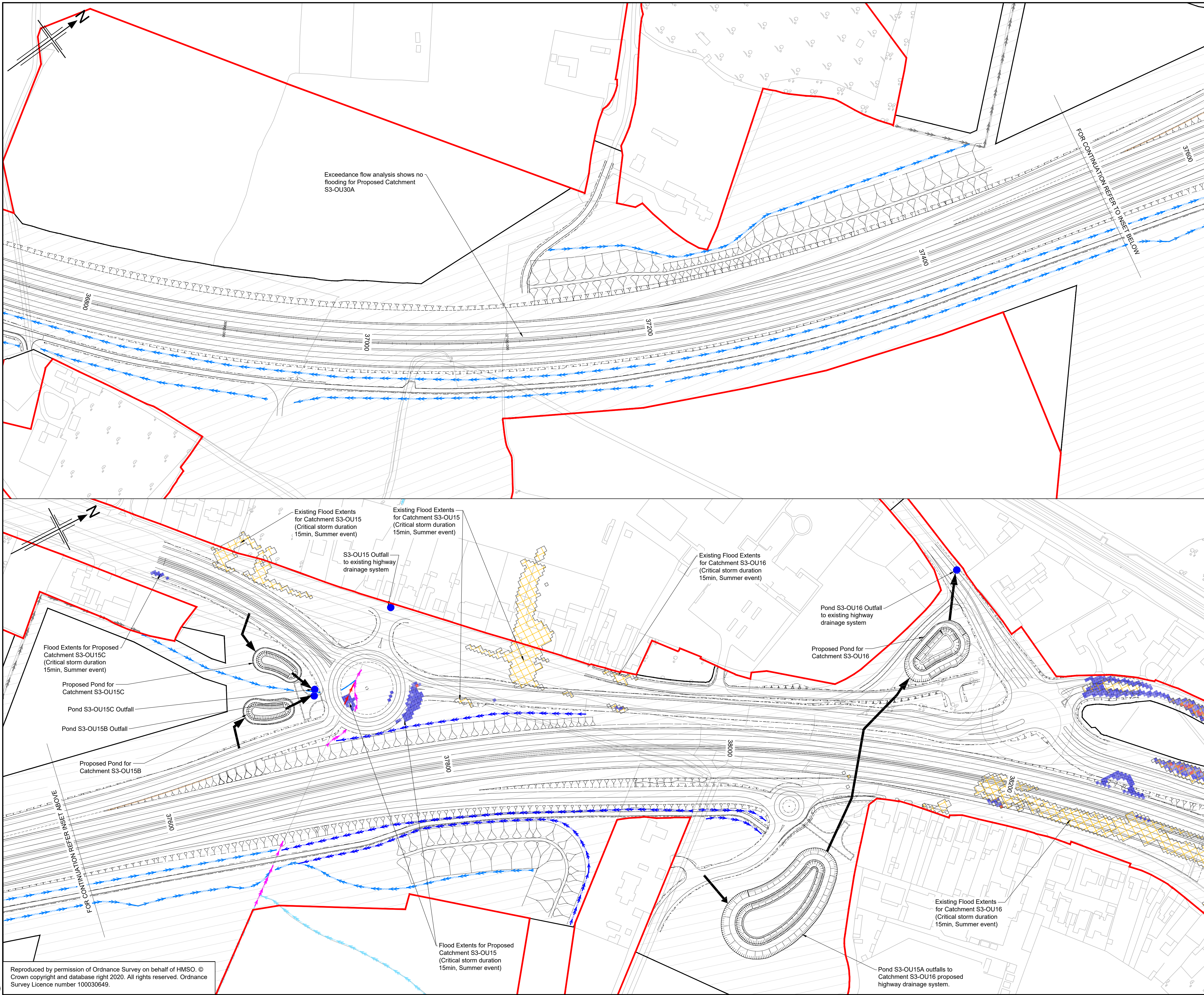
EXCEEDANCE FLOW ANALYSIS  
100YR PLUS 20%CC EVENT  
PROPOSED CATCHMENTS-S3OU30  
OU26B,OU30A,OU31,OU32&OU33

|                         |                    |                |     |
|-------------------------|--------------------|----------------|-----|
| Regulation              | REGULATION 5(2)(a) |                |     |
| Purpose of issue        | DCO APPLICATION    |                |     |
| State Code              | Preliminary        |                |     |
| Project Stage           | PCF 3              | Drawing status | S4  |
| Scale at A1 (841x594mm) | 1:1250             |                |     |
| Jacobs No.              | B36601D1           | Rev            | P01 |
| Client no.              | HE551497           |                |     |

|                |     |              |        |
|----------------|-----|--------------|--------|
| Drawing number | PIN | Originator   | Volume |
| HE551497 -     | JAC | LDC -        |        |
| S3             |     | -DR- D -0849 |        |



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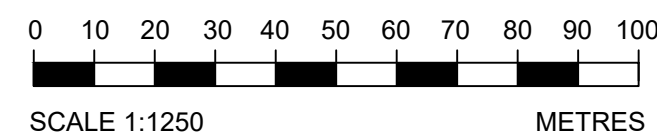
## SURFACE WATER DRAINAGE STRATEGY ANNEX A -PART 2

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  4. The flood extents shown on these plans have been developed based on the proposed drainage design solutions and flood exceedance assessment undertaken at the preliminary drainage design stage.
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- LEGEND
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- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding



SCALE 1:1250 METRES

|     |           |                           |       |         |       |         |
|-----|-----------|---------------------------|-------|---------|-------|---------|
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VP    | AM      | JT    | SG      |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |



Project  
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title  
**EXCEEDANCE FLOW ANALYSIS  
100YR PLUS 20%CC EVENT  
PROPOSED CATCHMENTS-S3OU15  
OU15A, OU15B, OU15C & OU16**

|                         |                    |  |  |  |                |
|-------------------------|--------------------|--|--|--|----------------|
| Regulation              | REGULATION 5(2)(a) |  |  |  |                |
| Purpose of issue        | DCO APPLICATION    |  |  |  |                |
| State Code              | Preliminary        |  |  |  |                |
| Project Stage           | PCF 3              |  |  |  | Drawing status |
| Scale at A1 (841x594mm) | 1:1250             |  |  |  | S4             |
| Jacobs No.              | B36601D1           |  |  |  | Rev            |
| Client no.              | HE551497           |  |  |  | P01            |

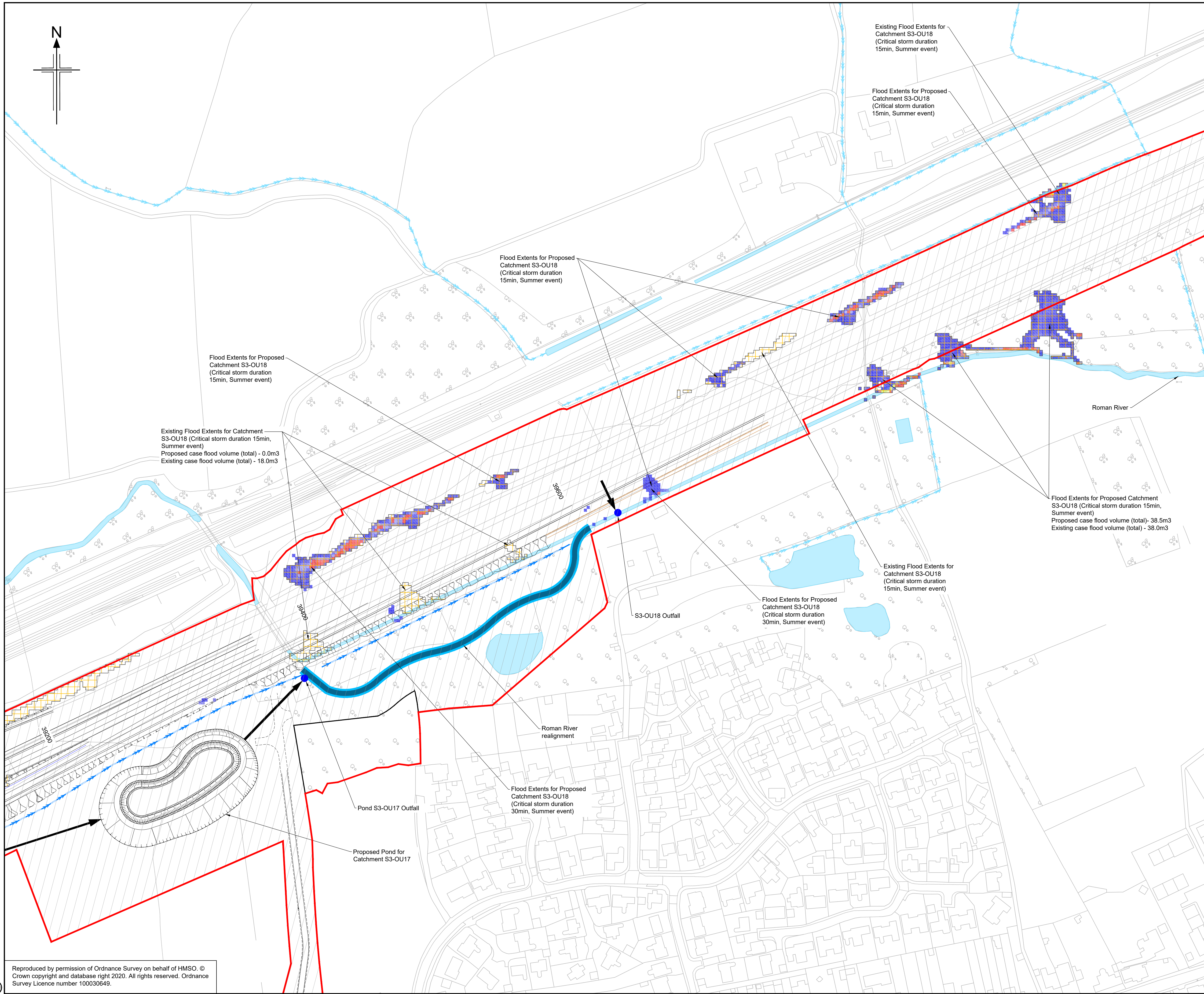
Drawing number  
HE551497 - JAC - LDC -  
S3 -DR- D -0850







c:\pwworking\jacobs\_uk\_highways\_ssa\deshpavsu0155530\HE551497-JAC-LDC-S3-DR-D-0852.dwg - 7/25/2022 1:18:28 PM - A1Frame - DeshpavS



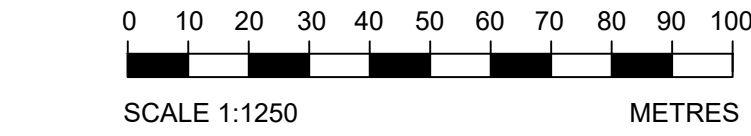
SURFACE WATER DRAINAGE STRATEGY  
ANNEX A -PART 2

- NOTES
1. Drawing is to be printed in colour.
  2. Do not scale from this drawing, use only printed dimensions.
  3. This drawing is to be read in conjunction with the Surface Water Drainage Strategy Report documented in Appendix 14.6 of the Environmental Statement [TR010060/APP/6.3] and Drainage and Surface Water Plan [TR010060/APP/2.13], (Drawing number HE551497-JAC-LDC-SCHW-DR-D-0819).
  4. The flood extents shown on these plans have been developed based on the proposed drainage design solutions and flood exceedance assessment undertaken at the preliminary drainage design stage.
  5. The flood extents shown on these plans may be subject to change as part of the design development in the detailed design stage. Any changes will require the flood exceedance assessment and flood extents to be reviewed and updated accordingly.

- LEGEND
- Order Limits
  - Proposed Scheme Permanent Acquisition of Land Boundary
  - Proposed Highway Drainage Outfall
  - Proposed Attenuation Pond
  - Proposed Attenuation Pond Access Track
  - Proposed Underground Storage Units
  - Indicative Outfall Route
  - Proposed Swale/ Vegetated Ditch
  - Pre-Earthworks Drainage (proposed ditch)
  - Pre-Earthworks Drainage (existing ditch to be retained)
  - Pre-Earthworks Drainage (existing ditch to be abandoned)
  - Pre-Earthworks Drainage (diverted/regarded ditch)
  - Pre-Earthworks Drainage (proposed filter drain)
  - Pre-Earthworks Drainage (existing filter drain to be retained)
  - Minor Watercourse (to be retained)
  - Minor Watercourse (to be abandoned)
  - Minor Watercourse (proposed diversion)
  - Proposed watercourse diversion (main river)
  - Existing Waterbodies/ Main River

EXCEEDANCE FLOW ANALYSIS: 1 in 100 yr + 20%CC

- 10-100 mm Flood Depth
- 100-300 mm Flood Depth
- 300-600 mm Flood Depth
- >600 mm Flood Depth
- Existing Flooding



|     |           |                           |       |         |       |         |
|-----|-----------|---------------------------|-------|---------|-------|---------|
|     |           |                           |       |         |       |         |
|     |           |                           |       |         |       |         |
|     |           |                           |       |         |       |         |
|     |           |                           |       |         |       |         |
| P01 | 22/07/22  | FINAL FOR DCO APPLICATION | VP    | AM      | JT    | SG      |
| Rev | Rev. Date | Purpose of revision       | Drawn | Checked | Rev'd | Apprv'd |

|                                   |   |
|-----------------------------------|---|
| Development Consent Order Number: | Development Consent Order Drawing Number: |
| TR010060                          | TR010060/APP/6.3                          |

Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

EXCEEDANCE FLOW ANALYSIS  
100YR PLUS 20%CC EVENT  
PROPOSED CATCHMENTS  
S3-OU18

|                         |                    |  |  |  |                |
|-------------------------|--------------------|--|--|--|----------------|
| Regulation              | REGULATION 5(2)(a) |  |  |  |                |
| Purpose of issue        | DCO APPLICATION    |  |  |  |                |
| State Code              | Preliminary        |  |  |  | Drawing status |
| Project Stage           | PCF 3              |  |  |  | S4             |
| Scale at A1 (841x594mm) | 1:1250             |  |  |  | Rev            |
| Jacobs No.              | B36601D1           |  |  |  | P01            |
| Client no.              | HE551497           |  |  |  |                |

|                |     |            |         |
|----------------|-----|------------|---------|
| Drawing number | PIN | Originator | Volume  |
| HE551497       | JAC | LDC        |         |
| Location       | S3  | -DR-       | D -0852 |