

A12 Chelmsford to A120 Widening Scheme

TR010060

2.13 DRAINAGE AND SURFACE WATER PLANS PART 2

APFP Regulation 5(2)(o)

Planning Act 2008

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

Volume 2

June 2023

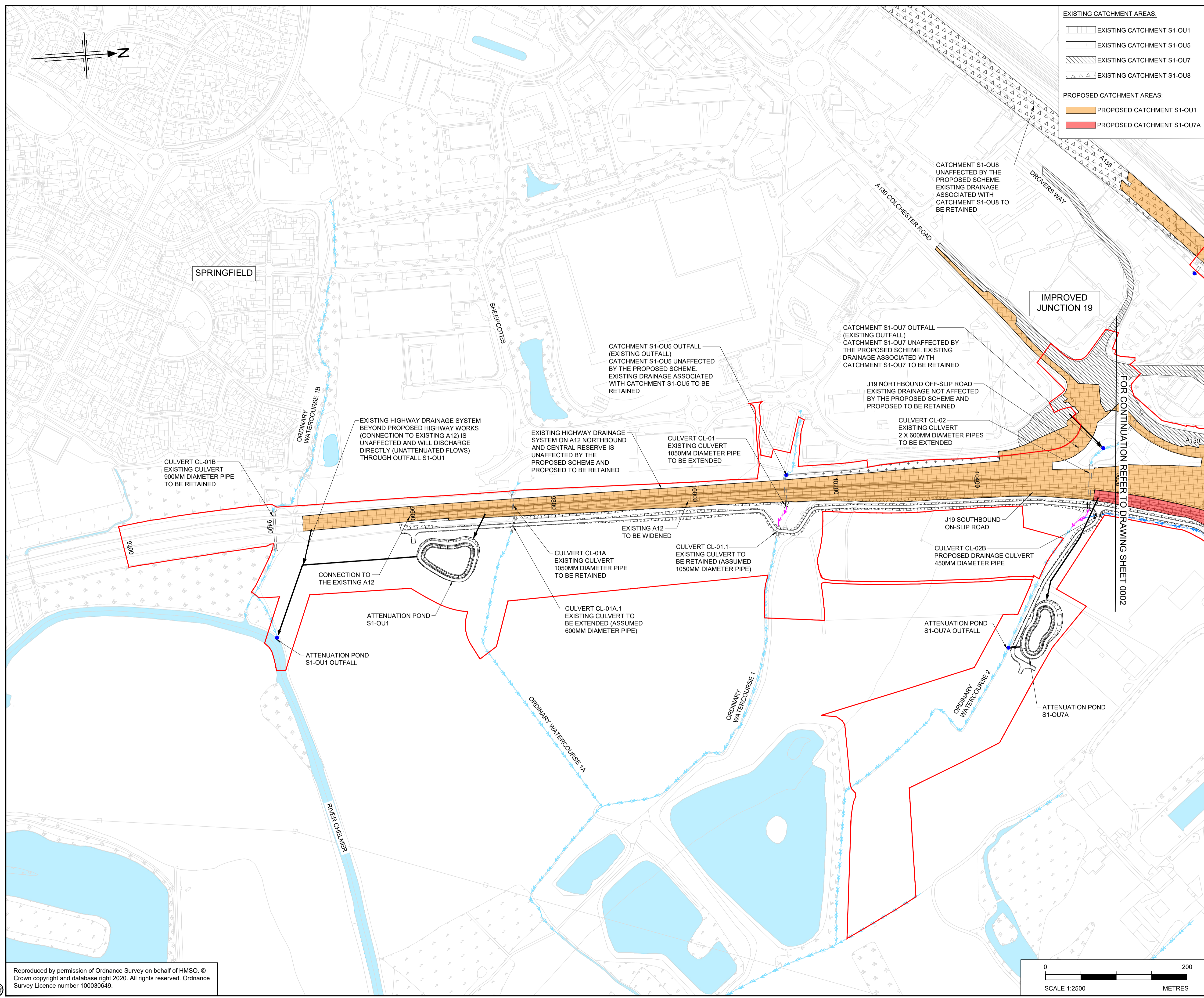
Infrastructure Planning
Planning Act 2008

**A12 Chelmsford to A120 Widening
Scheme**
Development Consent Order 202[]

DRAINAGE AND SURFACE WATER PLANS PART 2

Regulation Number:	Regulation 5(2)(o)
Planning Inspectorate Scheme Reference	TR010060
Plot Application Document Reference	TR010060/APP/2.13
Author	A12 Project Team, National Highways

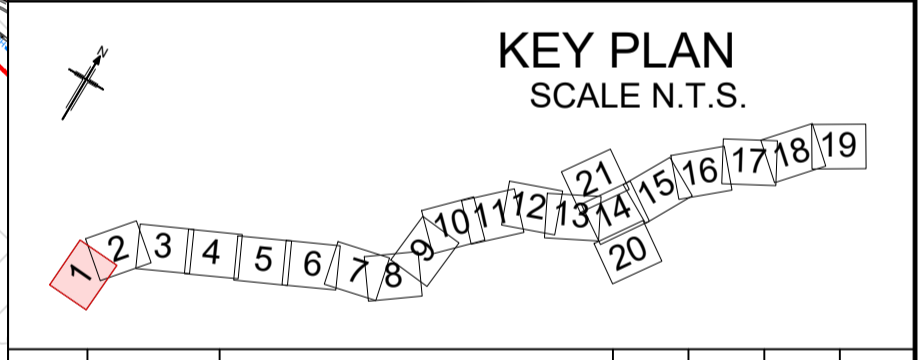
Version	Date	Status of Version
P02	June 2023	DCO Change



- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU1
 - EXISTING CATCHMENT S1-OU5
 - EXISTING CATCHMENT S1-OU7
 - EXISTING CATCHMENT S1-OU8
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU1
 - PROPOSED CATCHMENT S1-OU7A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

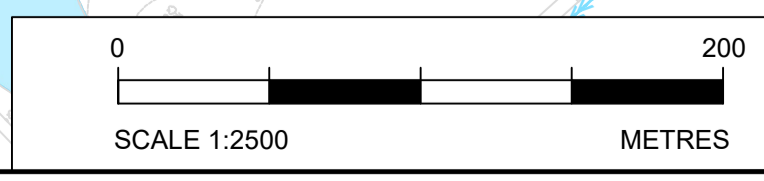


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **DRAINAGE AND SURFACE WATER PLANS SHEET 1 OF 21**

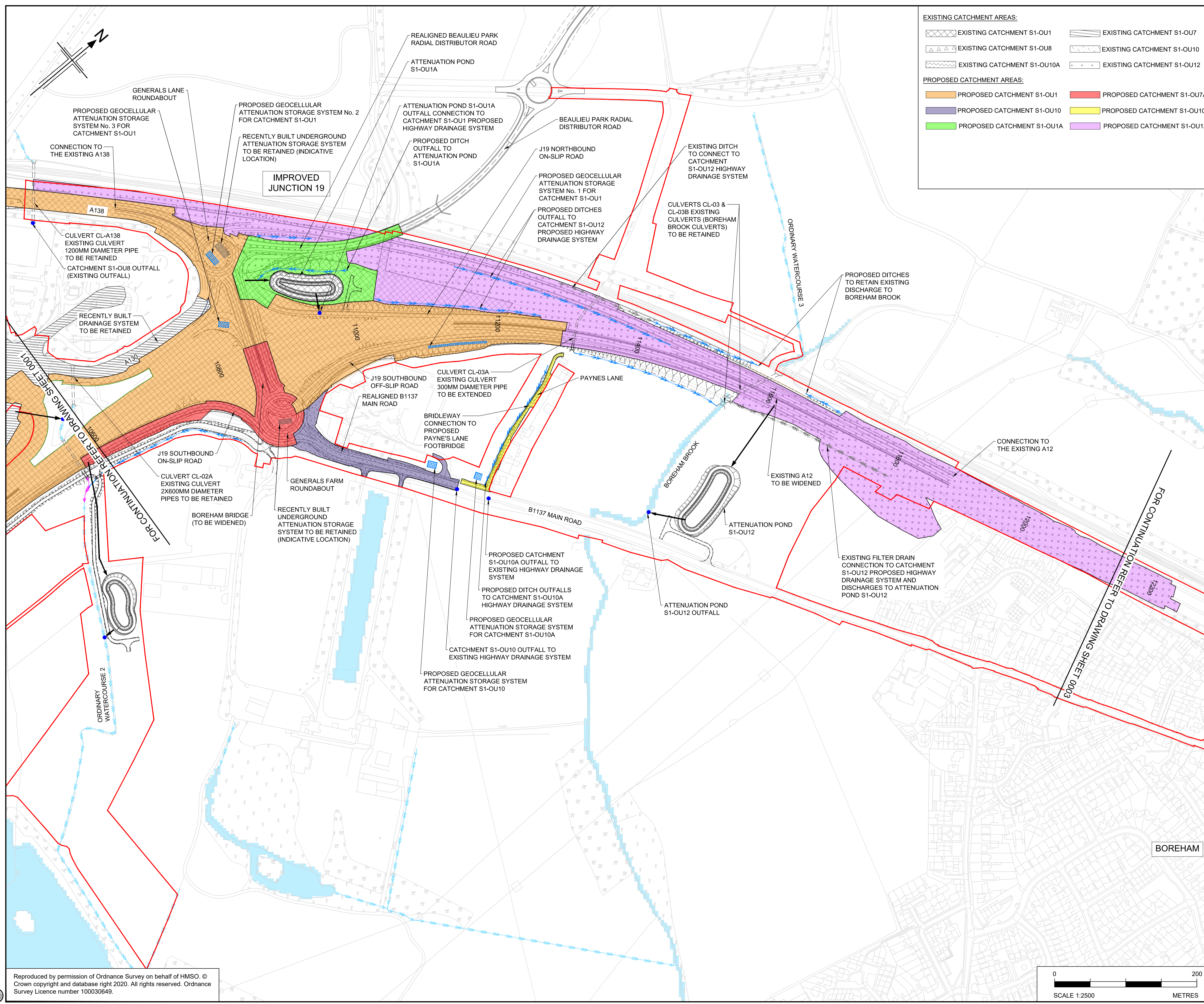
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0801



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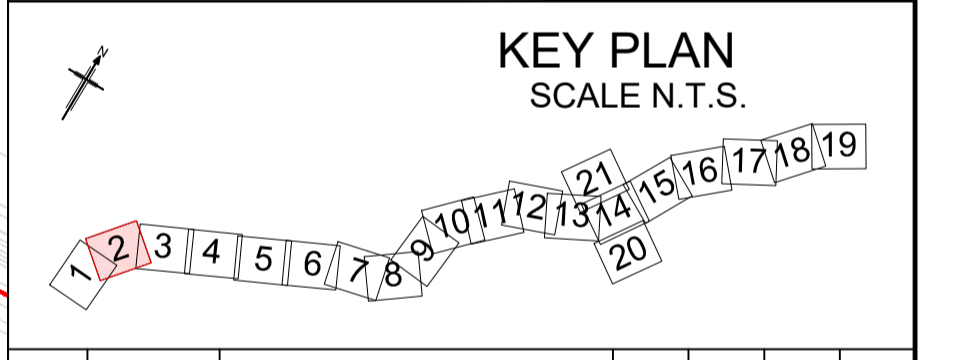
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU1
 - EXISTING CATCHMENT S1-OU8
 - EXISTING CATCHMENT S1-OU10A
 - EXISTING CATCHMENT S1-OU7
 - EXISTING CATCHMENT S1-OU10
 - EXISTING CATCHMENT S1-OU12
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU1
 - PROPOSED CATCHMENT S1-OU7A
 - PROPOSED CATCHMENT S1-OU10
 - PROPOSED CATCHMENT S1-OU10A
 - PROPOSED CATCHMENT S1-OU12

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
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 - THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 - ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
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 - EXISTING CULVERT (TO BE ABANDONED)
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 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG
P02	04/04/23	DCO CHANGE	VD	AM	AM	RC
P03	23/05/23	DCO CHANGE	VD	AM	AM	RM

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

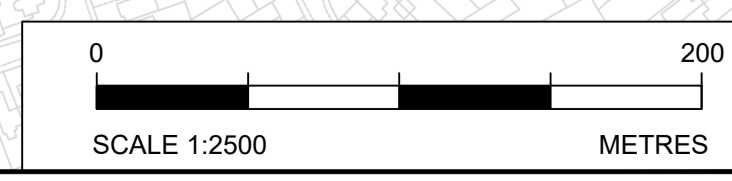
Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 2 OF 21

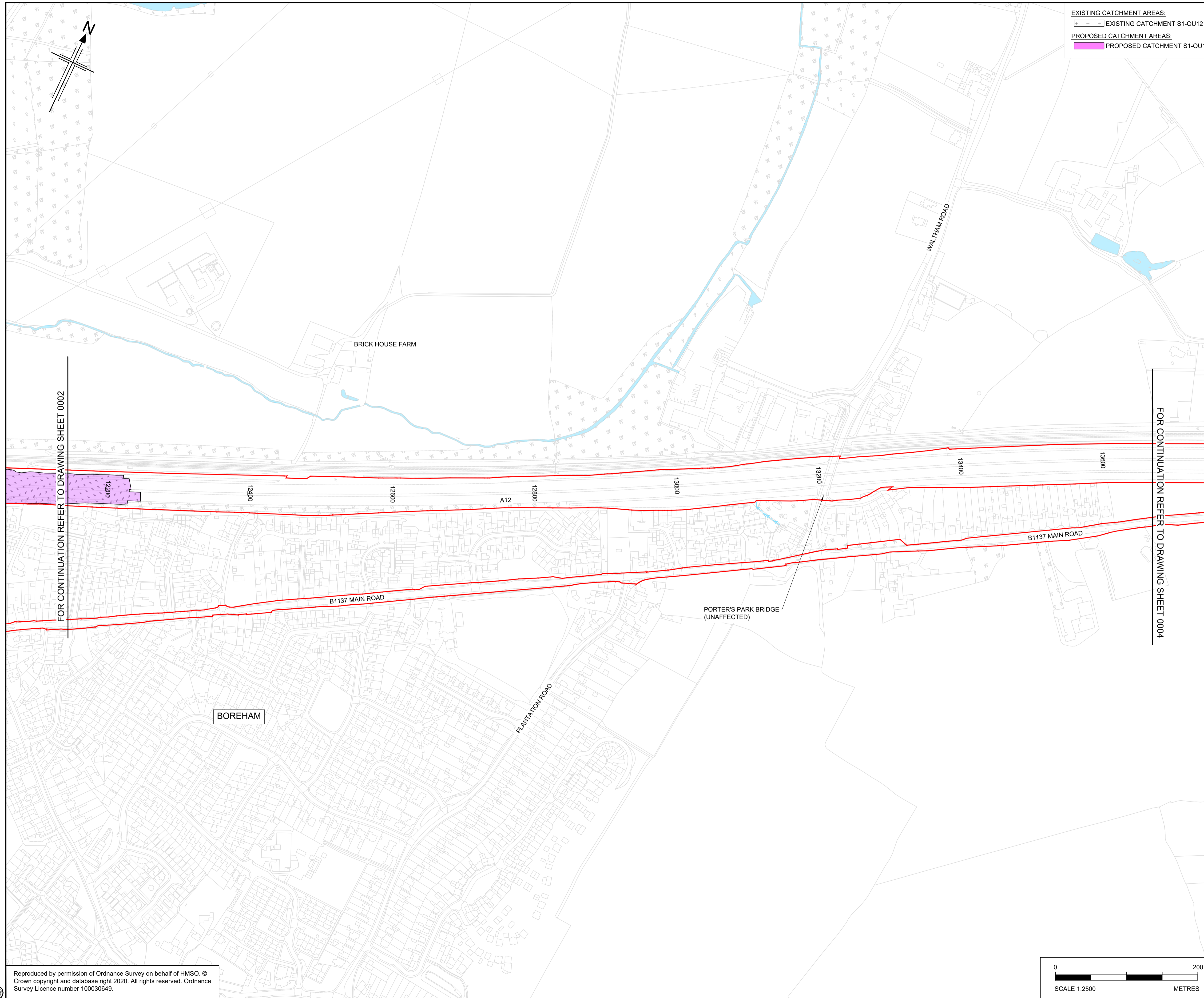
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Purpose of issue	DCO EXAM			
State Code	Statutory Procedures and Powers			
Project Stage	PCF 4	Drawing status		S4
Scale at A1 (841x594mm)	1:2500	Rev		P03
Jacobs No.	B36601D1			
Client no.	HE551497			

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0802
PIN: | Originator: | Volume: | Location: | Type: | Role: | Number:

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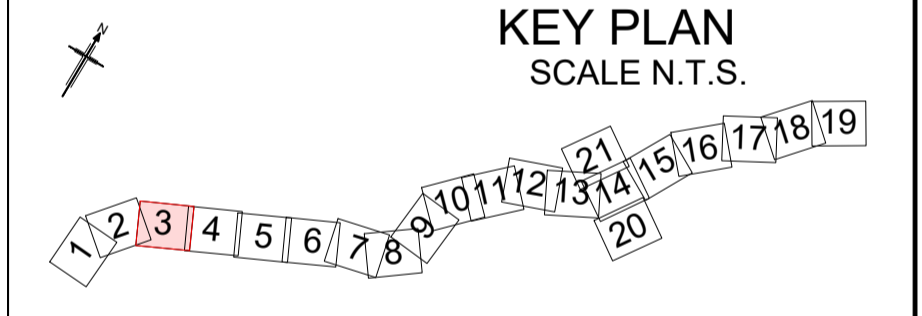




EXISTING CATCHMENT AREAS:
 + + + EXISTING CATCHMENT S1-OU12
PROPOSED CATCHMENT AREAS:
 PROPOSED CATCHMENT S1-OU12

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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 - PROPOSED HIGHWAY DRAINAGE OUTFALL
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 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



FOR CONTINUATION REFER TO DRAWING SHEET 0002

FOR CONTINUATION REFER TO DRAWING SHEET 0004

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

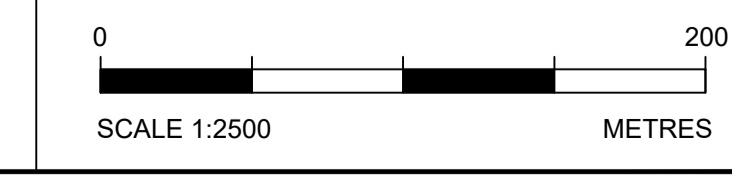
Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

DRAINAGE AND SURFACE WATER PLANS SHEET 3 OF 21

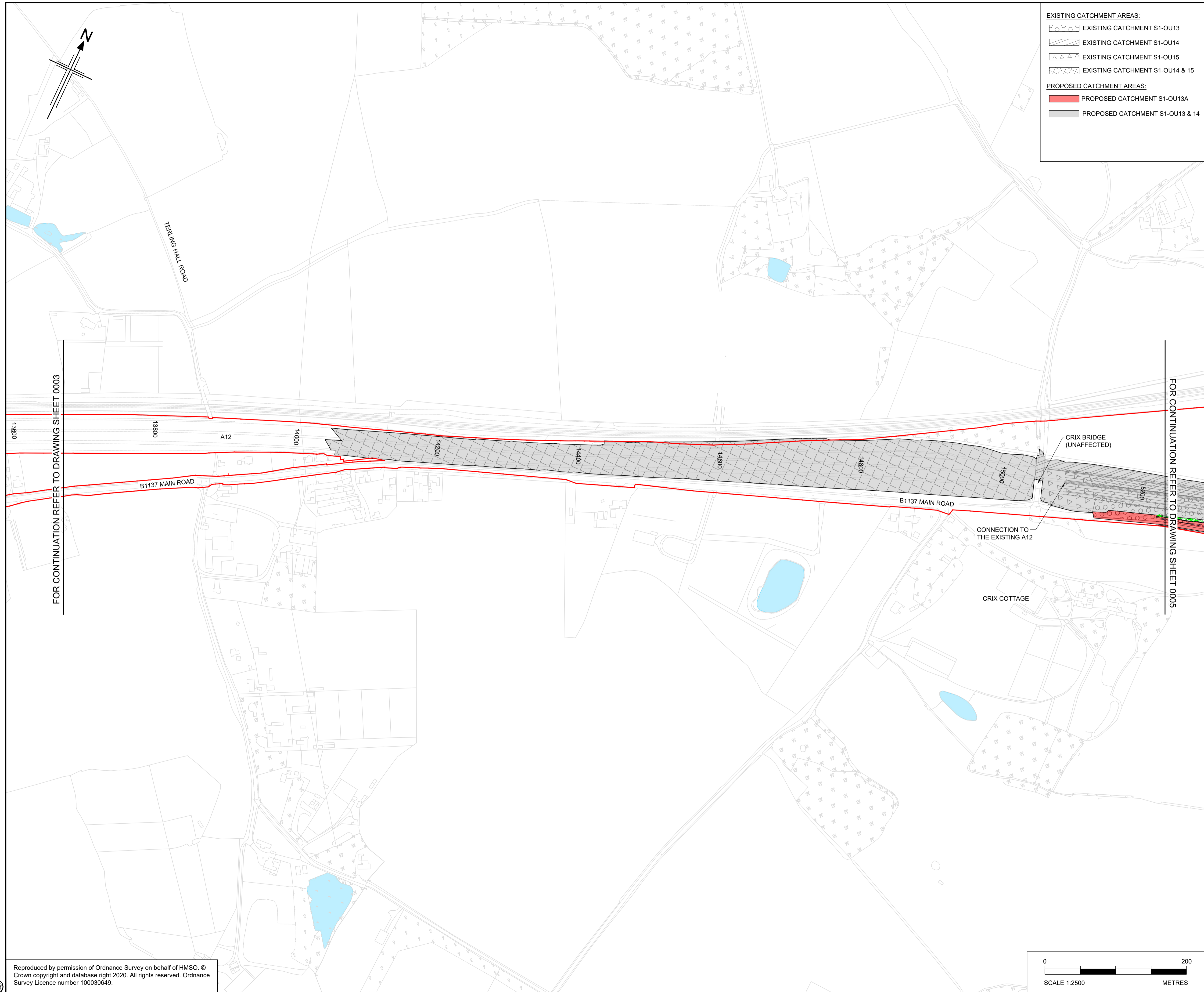
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	



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HE551497 - JAC - LDC - SCHW - DR - D -0803



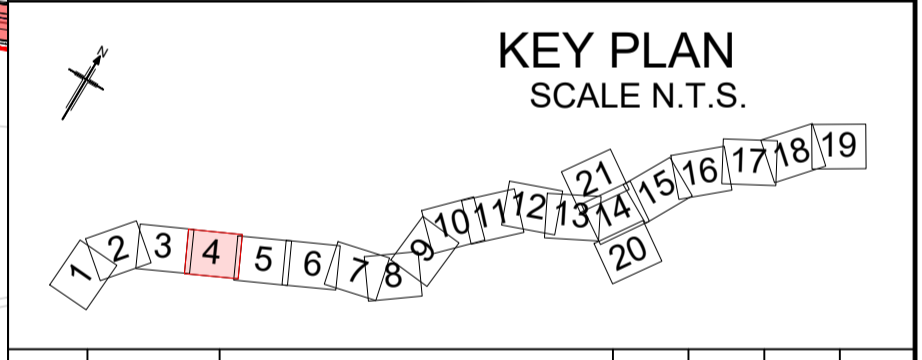
- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU13
 - EXISTING CATCHMENT S1-OU14
 - EXISTING CATCHMENT S1-OU15
 - EXISTING CATCHMENT S1-OU14 & 15
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU13A
 - PROPOSED CATCHMENT S1-OU13 & 14

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
- ORDER LIMITS
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 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

FOR CONTINUATION REFER TO DRAWING SHEET 0003

FOR CONTINUATION REFER TO DRAWING SHEET 0005



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG

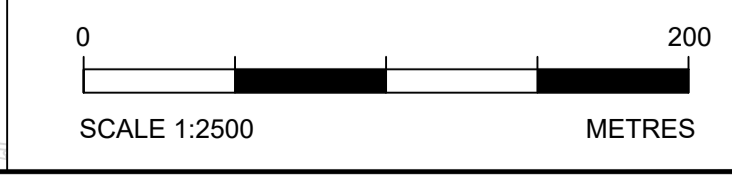
Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



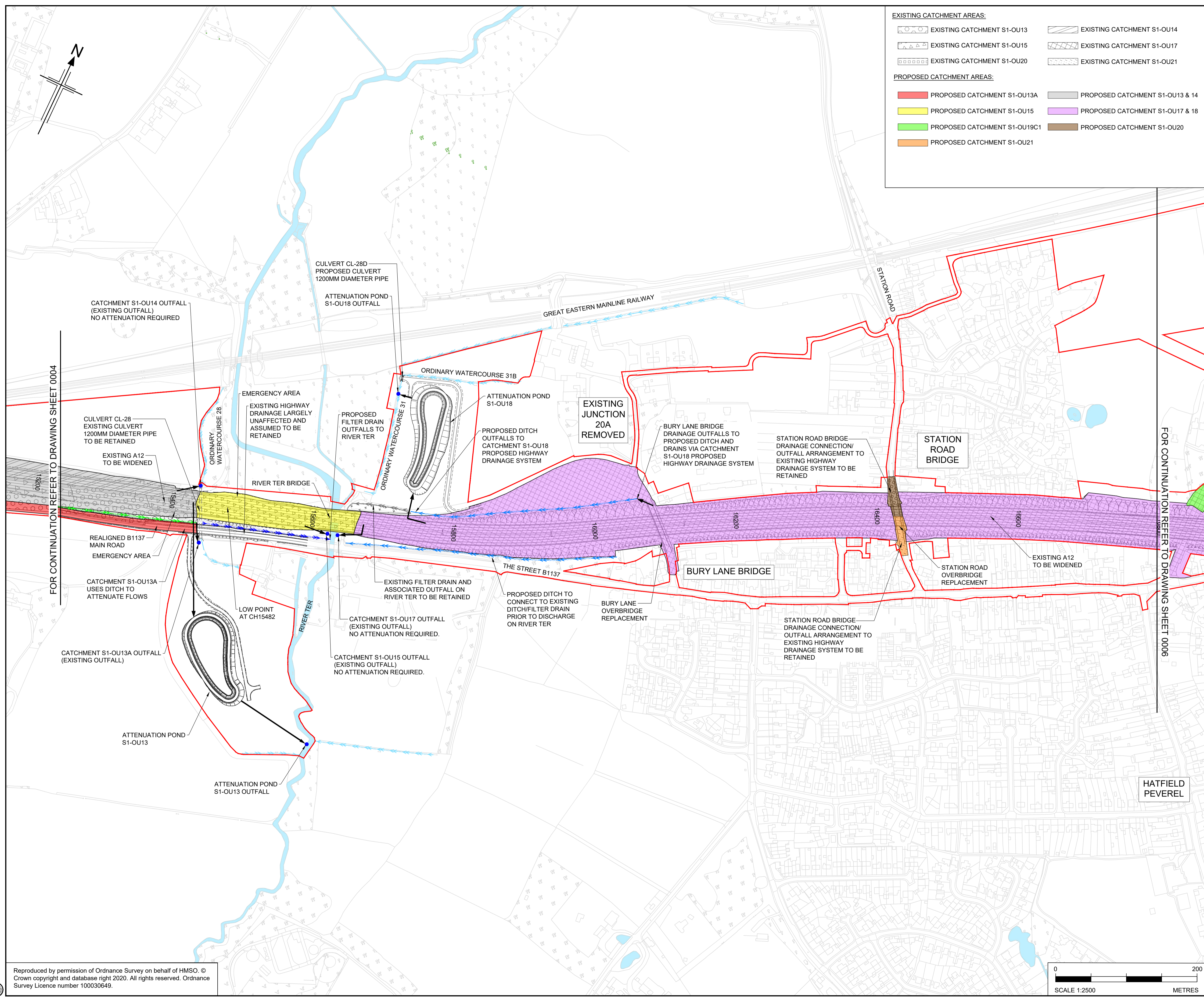
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 4 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01



Drawing number
 PIN | Originator | Volume
HE551497 - JAC - LDC - SCHW -DR- D -0804



EXISTING CATCHMENT AREAS:

- EXISTING CATCHMENT S1-OU13
- EXISTING CATCHMENT S1-OU14
- EXISTING CATCHMENT S1-OU15
- EXISTING CATCHMENT S1-OU17
- EXISTING CATCHMENT S1-OU20
- EXISTING CATCHMENT S1-OU21

PROPOSED CATCHMENT AREAS:

- PROPOSED CATCHMENT S1-OU13A
- PROPOSED CATCHMENT S1-OU15
- PROPOSED CATCHMENT S1-OU17 & 18
- PROPOSED CATCHMENT S1-OU19C1
- PROPOSED CATCHMENT S1-OU20
- PROPOSED CATCHMENT S1-OU13 & 14
- PROPOSED CATCHMENT S1-OU17 & 18

- NOTES**
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LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND ACCESS TRACK
- PROPOSED GEOCELLULAR ATTENUATION STORAGE
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- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	JC	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/2.13

Client:

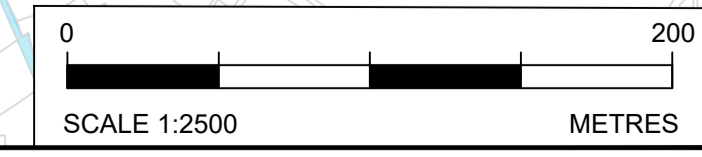
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME
HATFIELD PEVEREL

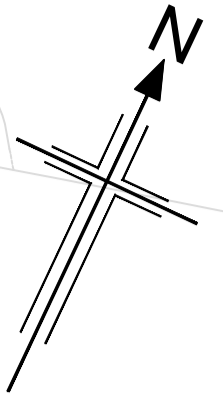
DRAINAGE AND SURFACE WATER PLANS
SHEET 5 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0800
PIN | Originator | Volume | Location | Type | Role | Number

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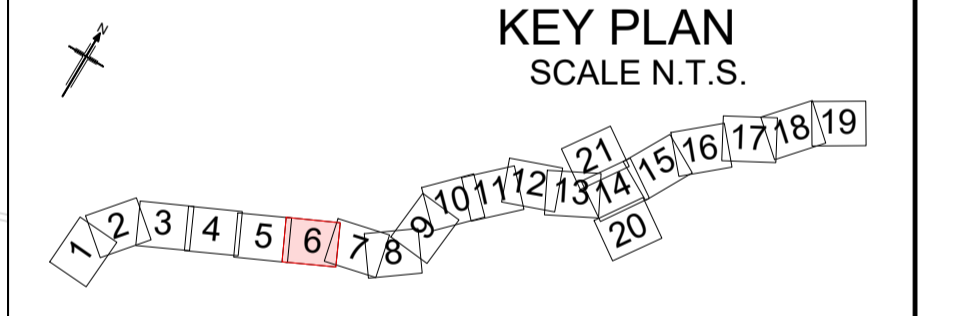




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU17
 - EXISTING CATCHMENT S1-OU19
 - EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S1-OU24
 - EXISTING CATCHMENT S1-OU23D
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU17 & 18
 - PROPOSED CATCHMENT S1-OU19
 - PROPOSED CATCHMENT S1-OU19C
 - PROPOSED CATCHMENT S1-OU19C1
 - PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S1-OU23C
 - PROPOSED CATCHMENT S1-OU23D
 - PROPOSED CATCHMENT S1-OU24A
 - PROPOSED CATCHMENT S1-OU24B

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13

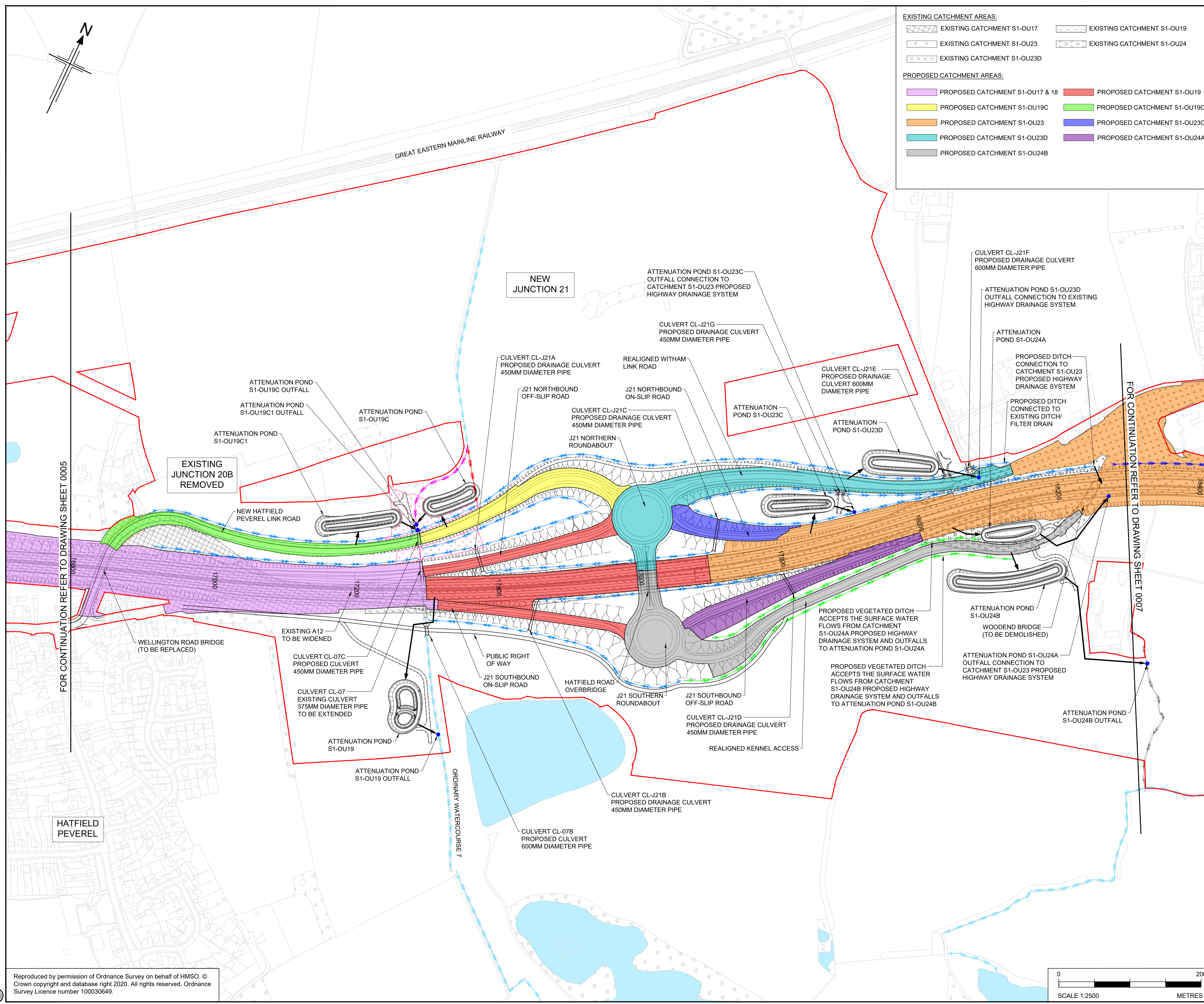


Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 6 OF 21

Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

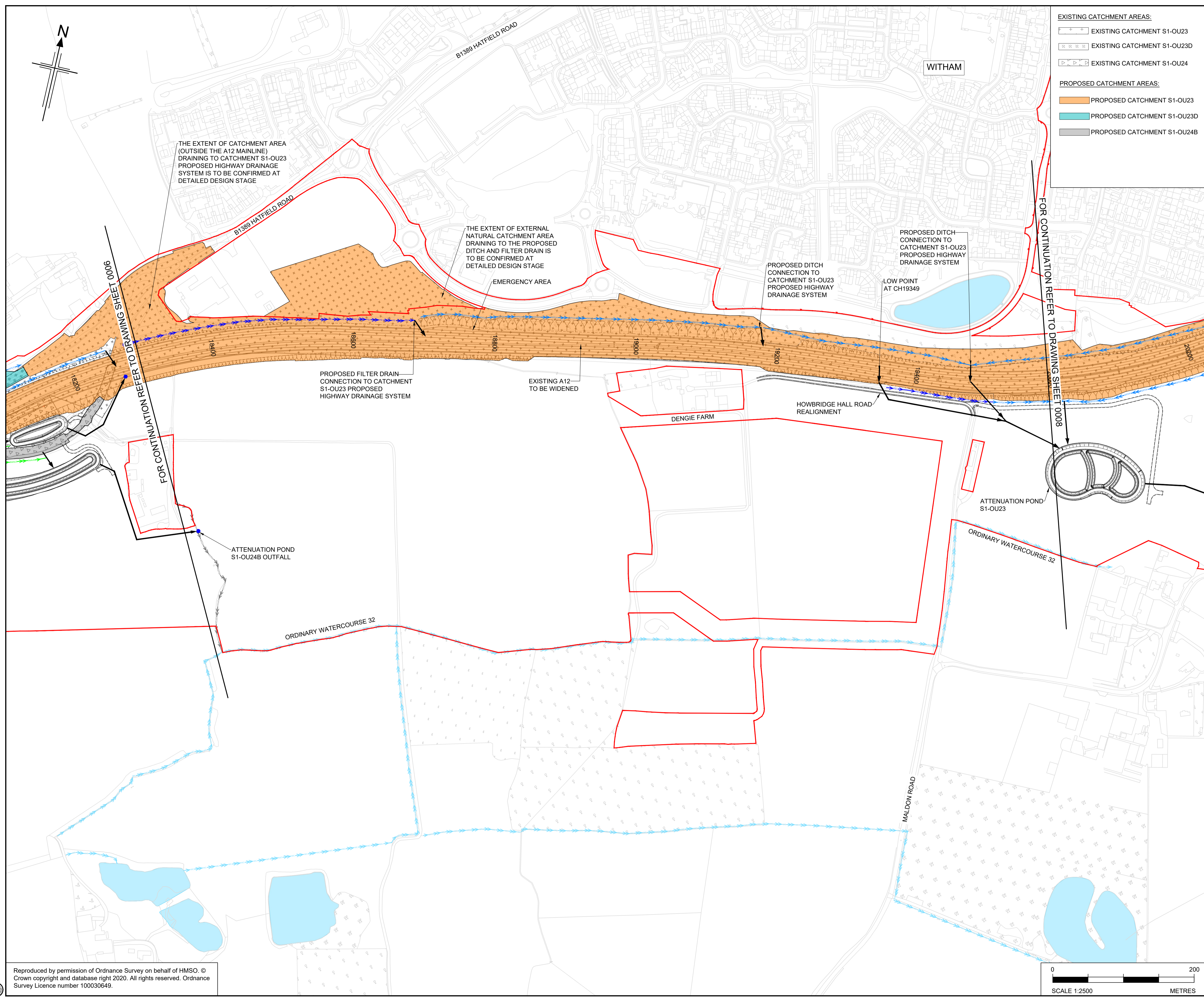
Drawing number
PIN | Originator | Volume
HE551497 - JAC - LDC - SCHW -DR- D -0800



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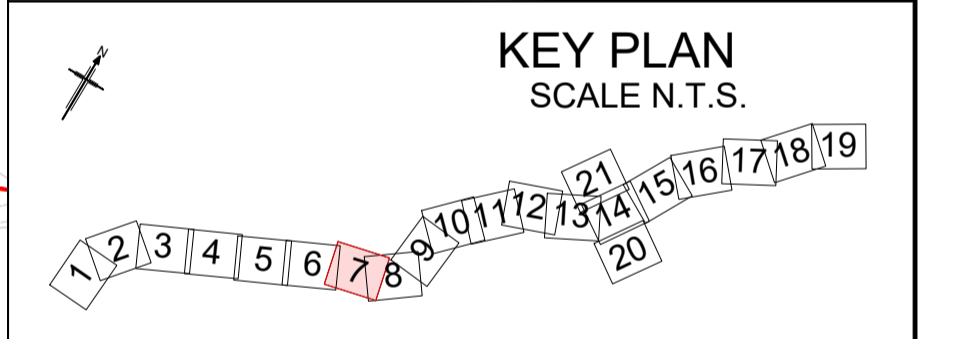




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S1-OU23D
 - EXISTING CATCHMENT S1-OU24
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S1-OU23D
 - PROPOSED CATCHMENT S1-OU24B

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/ REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

DRAINAGE AND SURFACE WATER PLANS SHEET 7 OF 21

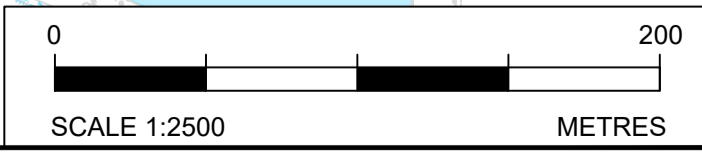
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

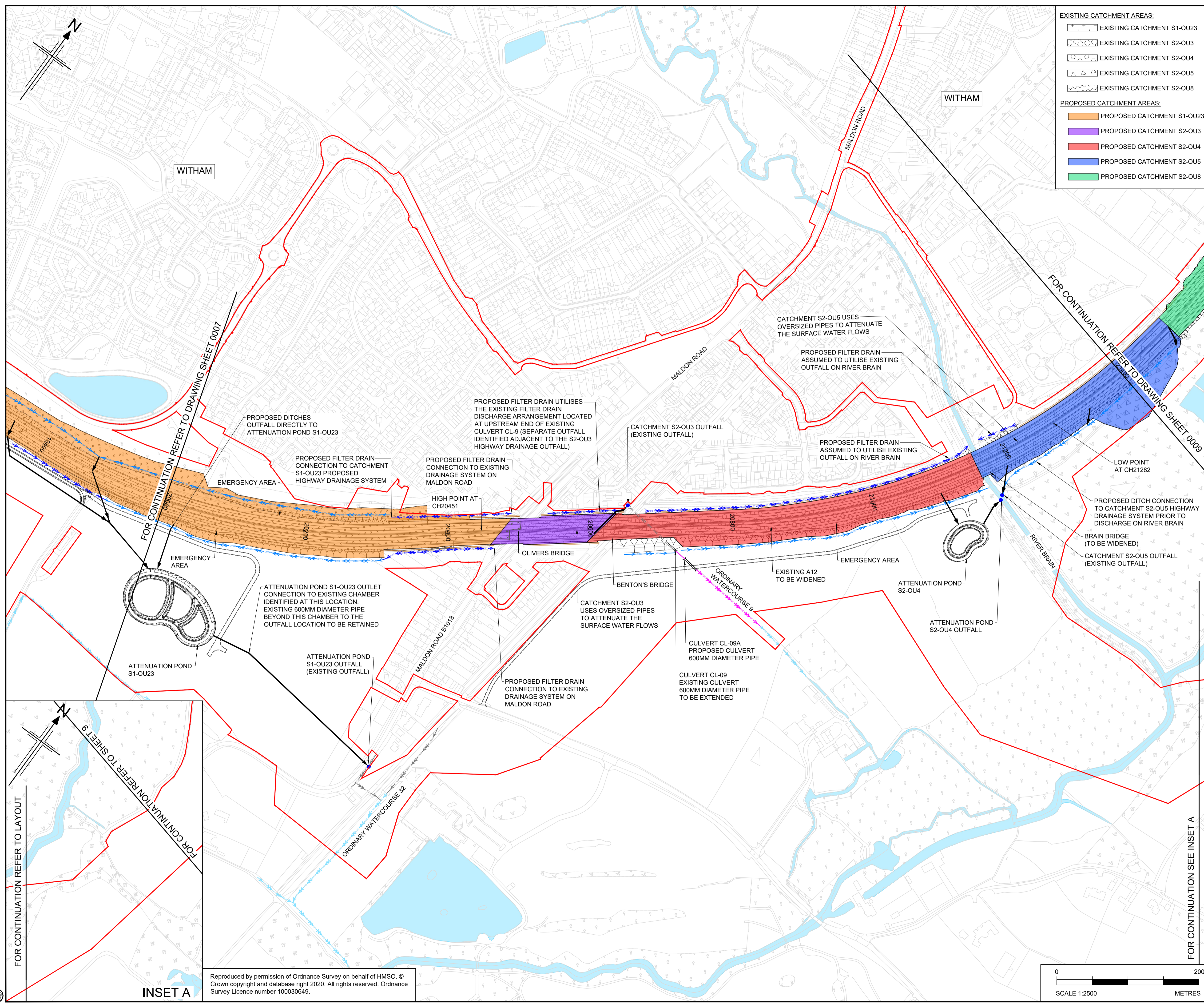
Drawing number

HE551497 - JAC - LDC - SCHW - DR - D -0807

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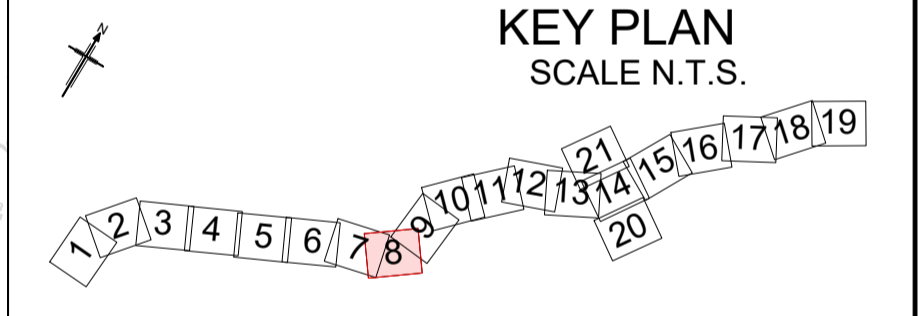




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S2-OU3
 - EXISTING CATCHMENT S2-OU4
 - EXISTING CATCHMENT S2-OU5
 - EXISTING CATCHMENT S2-OU8
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S2-OU3
 - PROPOSED CATCHMENT S2-OU4
 - PROPOSED CATCHMENT S2-OU5
 - PROPOSED CATCHMENT S2-OU8

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

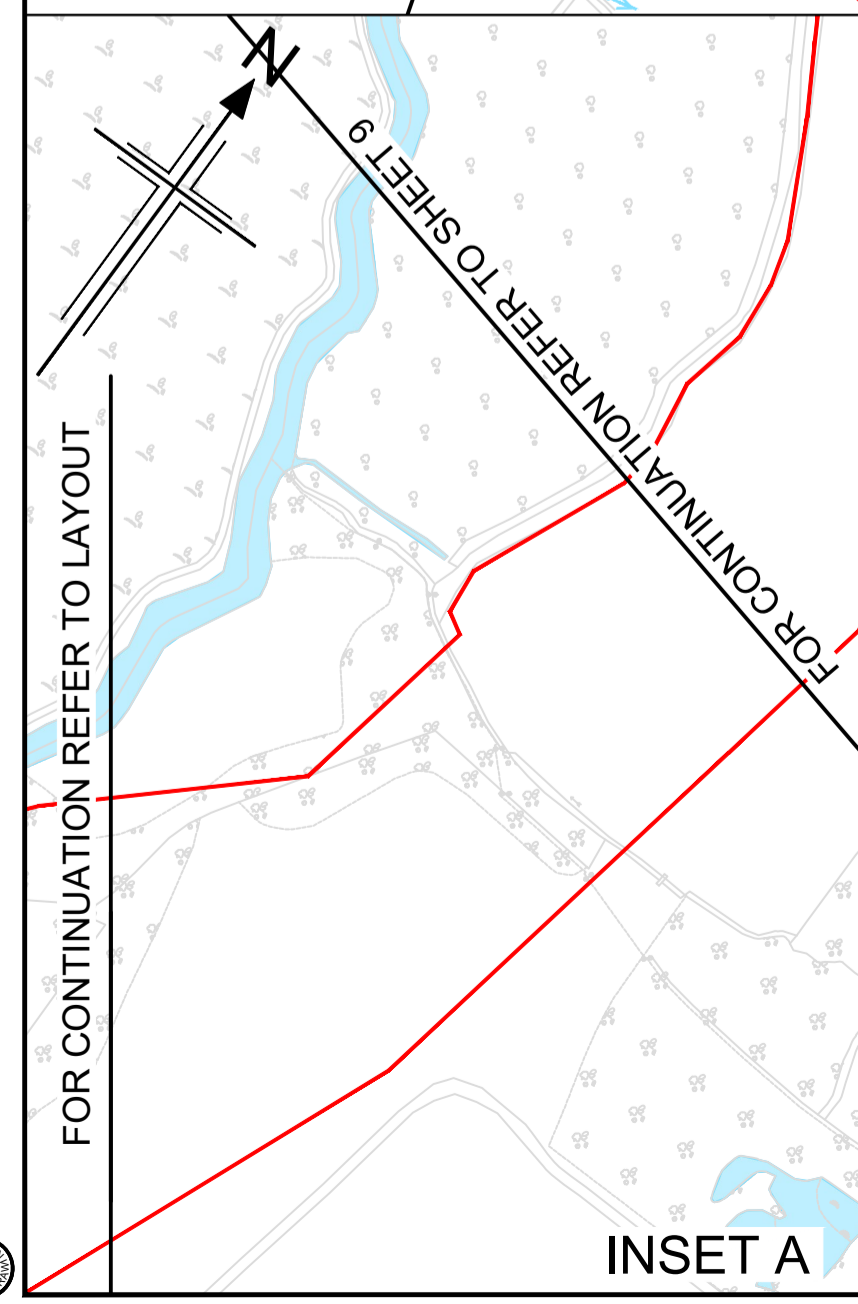
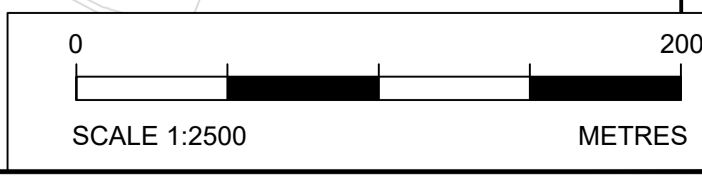
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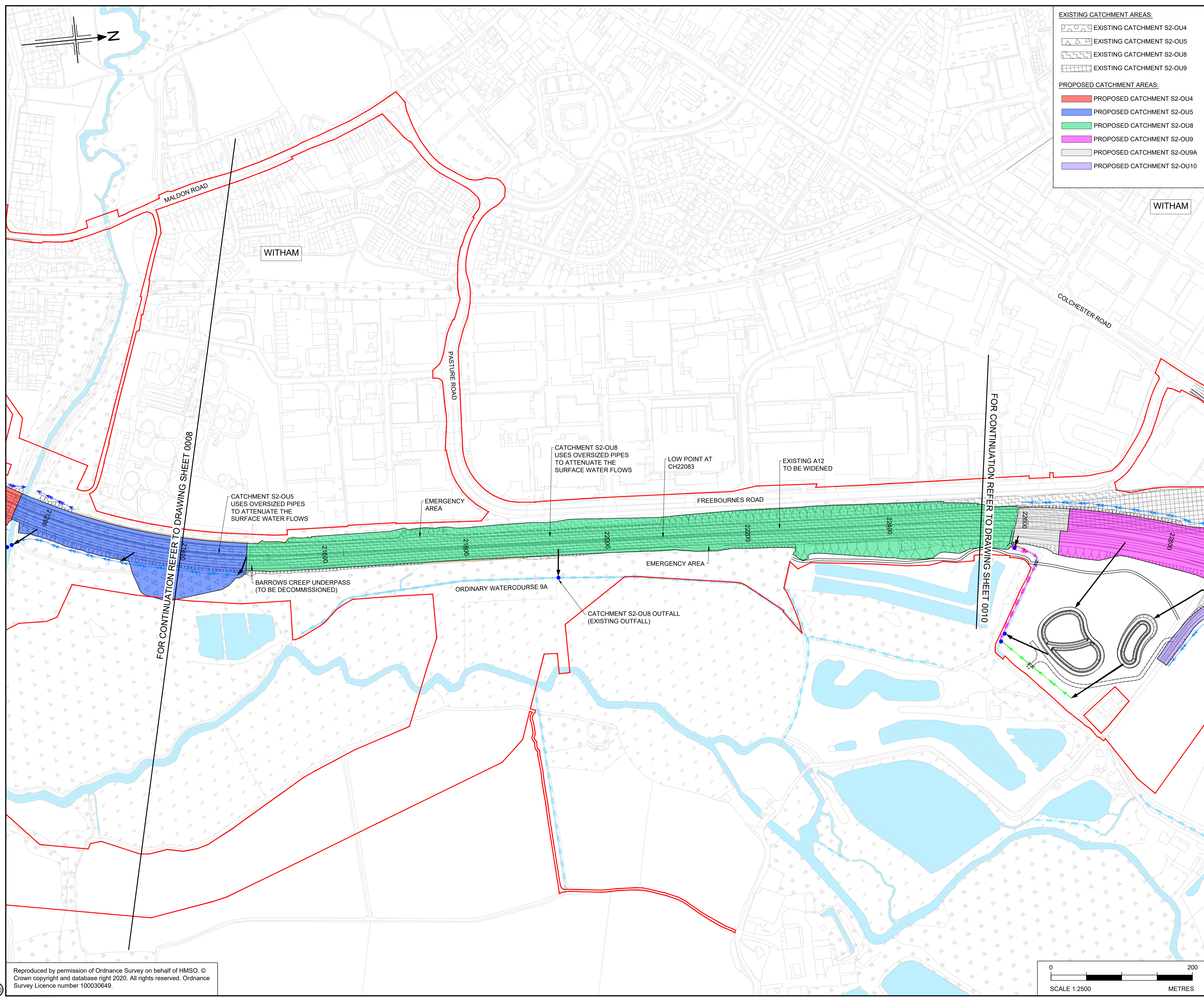
Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0808
PIN: Location: JAC - LDC - SCHW - DR - D - 0808
Originator: JAC - LDC - SCHW - DR - D - 0808
Volume: JAC - LDC - SCHW - DR - D - 0808

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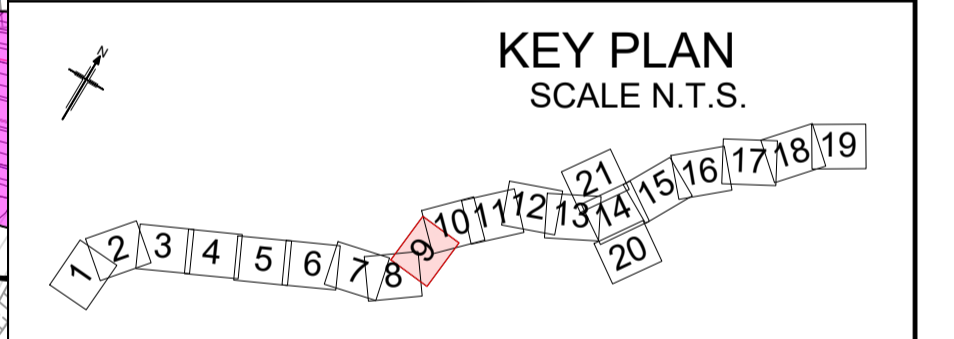




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU4
 - EXISTING CATCHMENT S2-OU5
 - EXISTING CATCHMENT S2-OU8
 - EXISTING CATCHMENT S2-OU9
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU4
 - PROPOSED CATCHMENT S2-OU5
 - PROPOSED CATCHMENT S2-OU8
 - PROPOSED CATCHMENT S2-OU9
 - PROPOSED CATCHMENT S2-OU9A
 - PROPOSED CATCHMENT S2-OU10

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

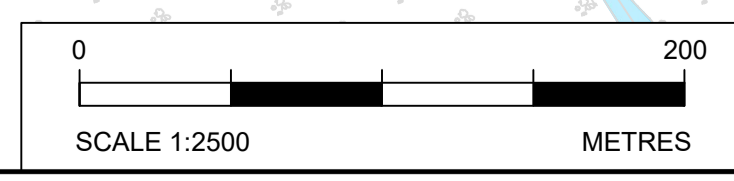
Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 9 OF 21

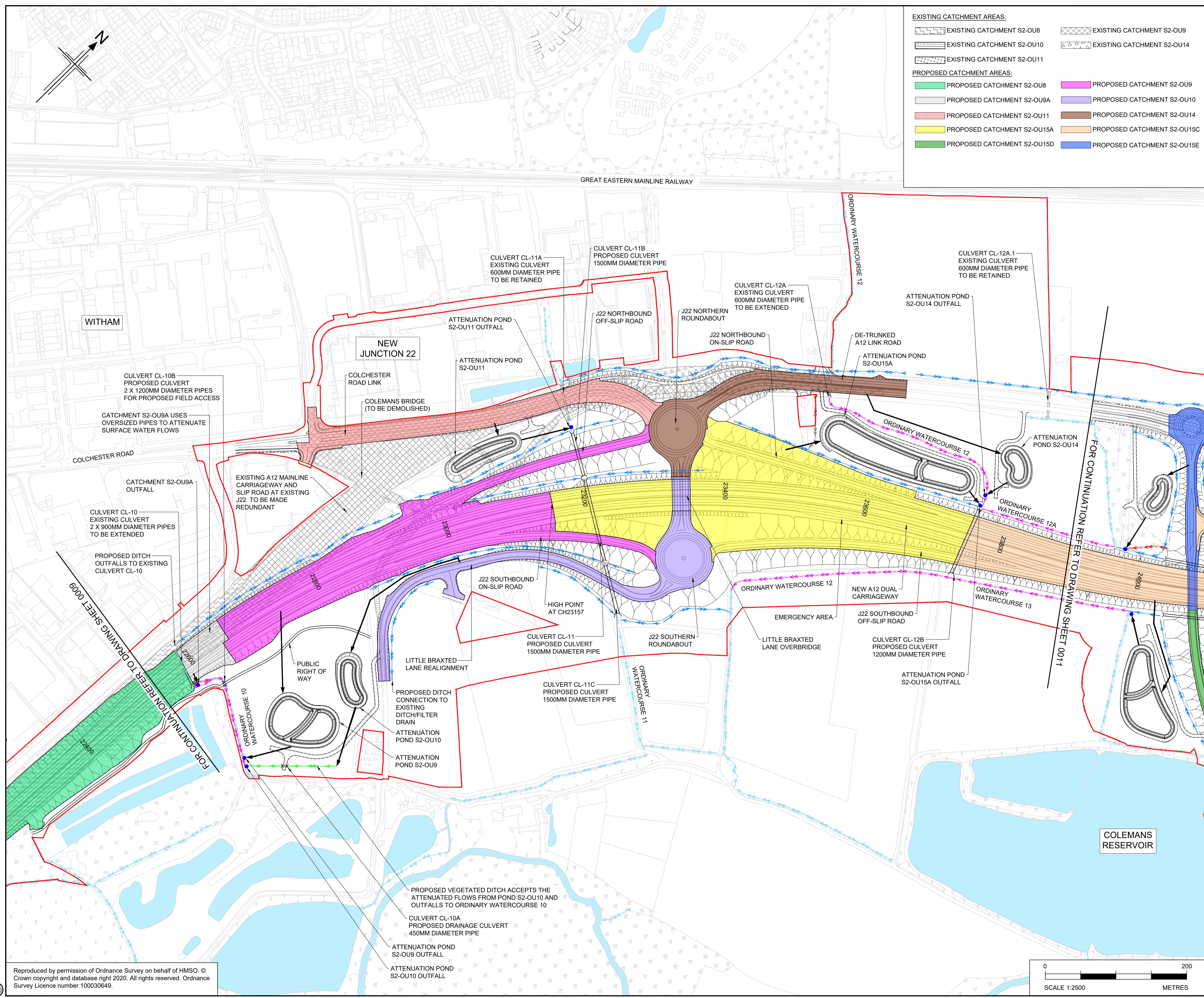
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0809
PIN: | Originator: | Volume: | Location: | Type: | Role: | Number:

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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU8
 - EXISTING CATCHMENT S2-OU10
 - EXISTING CATCHMENT S2-OU11
 - EXISTING CATCHMENT S2-OU9
 - EXISTING CATCHMENT S2-OU14
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU8
 - PROPOSED CATCHMENT S2-OU9A
 - PROPOSED CATCHMENT S2-OU11
 - PROPOSED CATCHMENT S2-OU15A
 - PROPOSED CATCHMENT S2-OU15D
 - PROPOSED CATCHMENT S2-OU9
 - PROPOSED CATCHMENT S2-OU10
 - PROPOSED CATCHMENT S2-OU14
 - PROPOSED CATCHMENT S2-OU15C
 - PROPOSED CATCHMENT S2-OU15E

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
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 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13

Client:

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

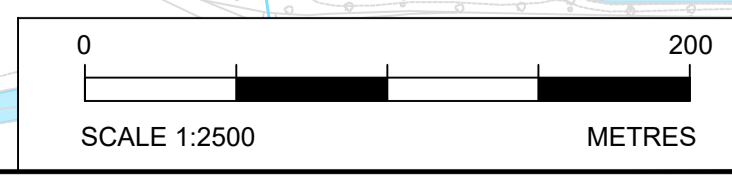
Drawing title: **DRAINAGE AND SURFACE WATER PLANS SHEET 10 OF 21**

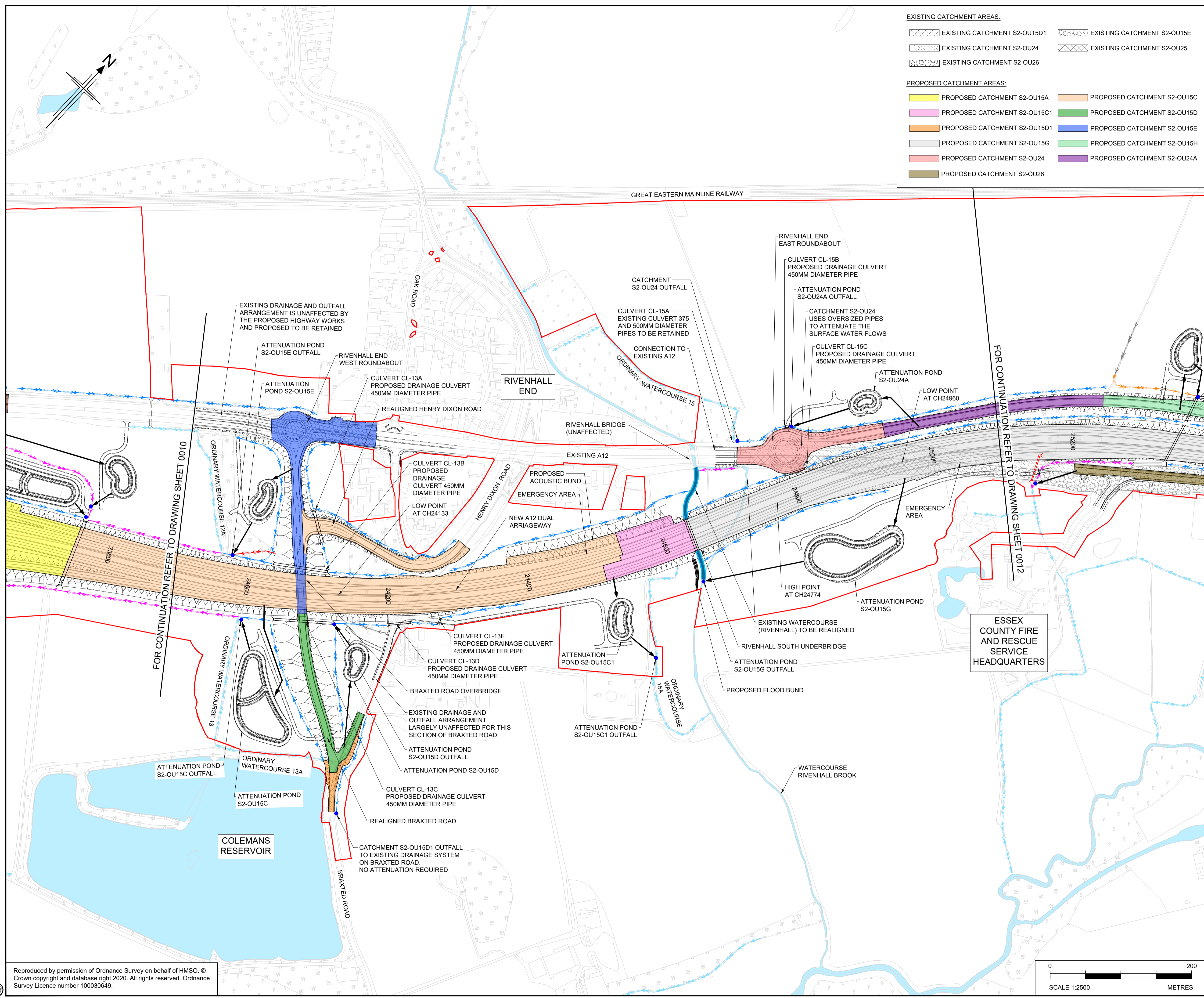
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		

Regulation PIN | Originator | Volume
HE551497 - JAC - LDC - SCHW - DR - D - 0810

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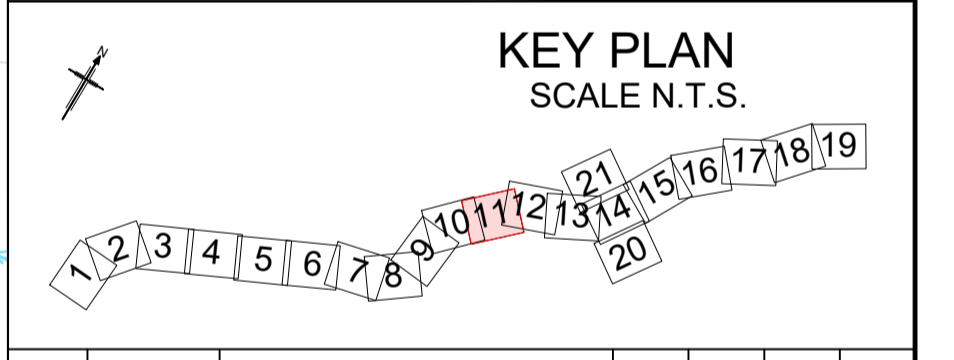




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU15D1
 - EXISTING CATCHMENT S2-OU24
 - EXISTING CATCHMENT S2-OU26
 - EXISTING CATCHMENT S2-OU15E
 - EXISTING CATCHMENT S2-OU25
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU15A
 - PROPOSED CATCHMENT S2-OU15C1
 - PROPOSED CATCHMENT S2-OU15D1
 - PROPOSED CATCHMENT S2-OU15G
 - PROPOSED CATCHMENT S2-OU24
 - PROPOSED CATCHMENT S2-OU15E
 - PROPOSED CATCHMENT S2-OU15C
 - PROPOSED CATCHMENT S2-OU15D
 - PROPOSED CATCHMENT S2-OU15E
 - PROPOSED CATCHMENT S2-OU15H
 - PROPOSED CATCHMENT S2-OU24A
 - PROPOSED CATCHMENT S2-OU26

- NOTES**
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
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 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	AC	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/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

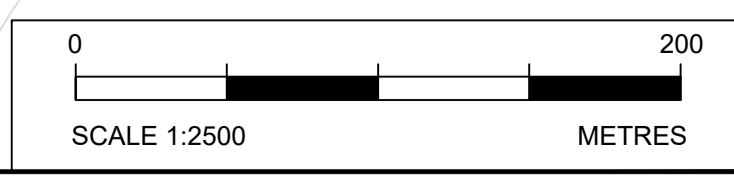
Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 11 OF 21

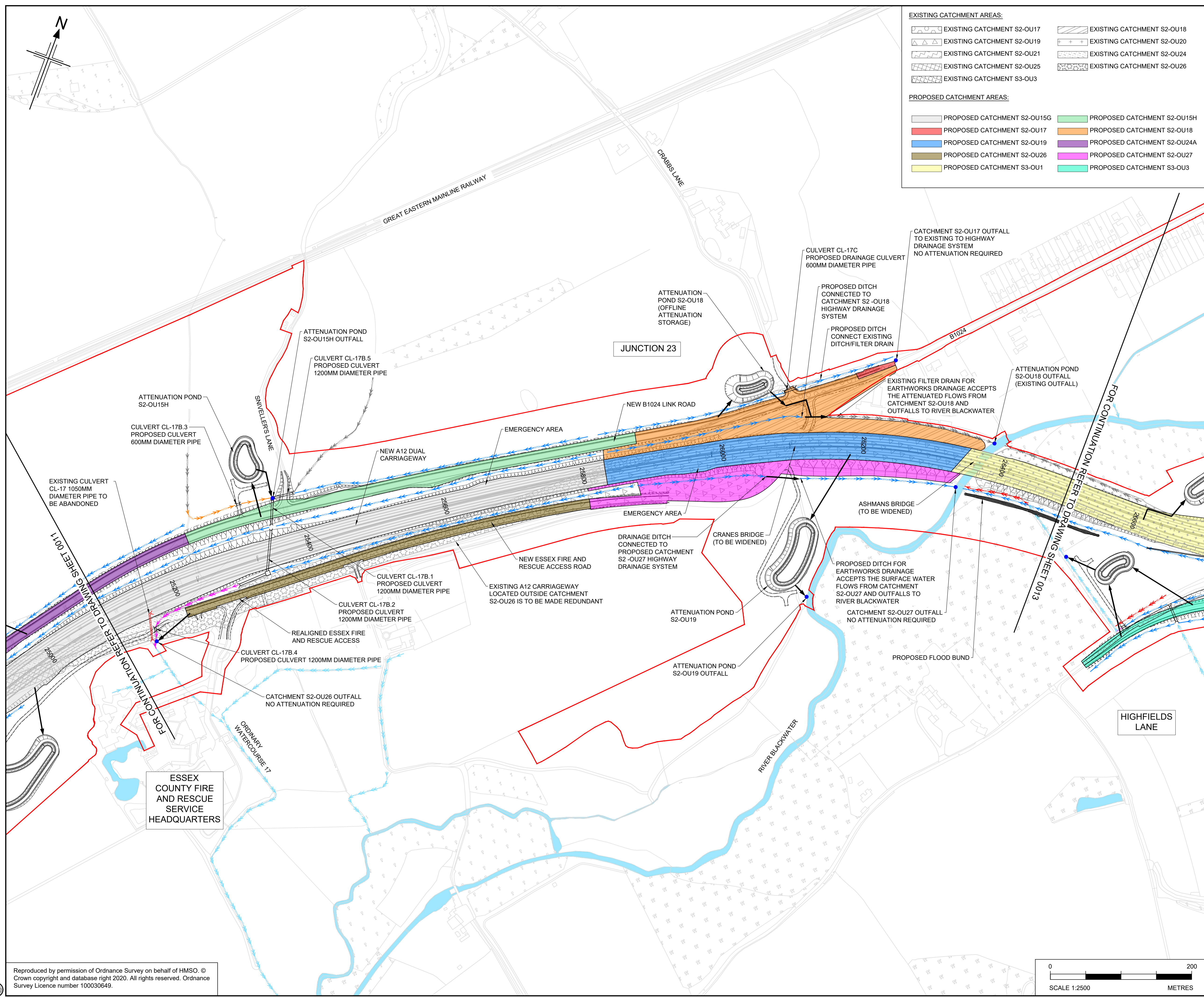
Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number
HE551497 - JAC - LDC - SCHW - DR - D - 0811

C:\pwworking\jacobs_uk_highways_ssa\deshpas\0155536\HE551497-JAC-LDC-SCHW-DR-D-0811.dwg - 7/22/2022 6:28:45 PM - A1Frame - DeshpasV

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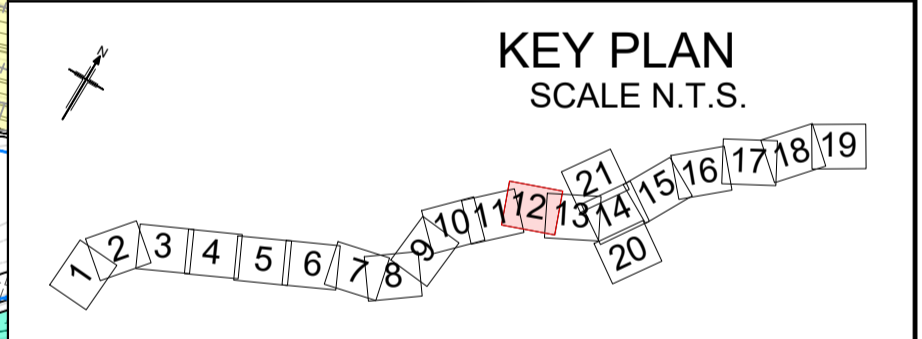




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU17
 - EXISTING CATCHMENT S2-OU18
 - EXISTING CATCHMENT S2-OU19
 - EXISTING CATCHMENT S2-OU20
 - EXISTING CATCHMENT S2-OU21
 - EXISTING CATCHMENT S2-OU22
 - EXISTING CATCHMENT S2-OU24
 - EXISTING CATCHMENT S2-OU25
 - EXISTING CATCHMENT S2-OU26
 - EXISTING CATCHMENT S3-O3
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU15G
 - PROPOSED CATCHMENT S2-OU15H
 - PROPOSED CATCHMENT S2-OU17
 - PROPOSED CATCHMENT S2-OU18
 - PROPOSED CATCHMENT S2-OU19
 - PROPOSED CATCHMENT S2-OU24A
 - PROPOSED CATCHMENT S2-OU26
 - PROPOSED CATCHMENT S2-OU27
 - PROPOSED CATCHMENT S3-O1
 - PROPOSED CATCHMENT S3-O3

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 - THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 - ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/ REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING FILTER DRAIN (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

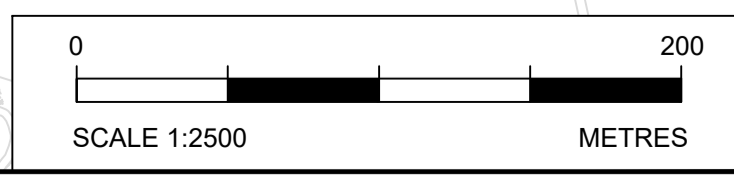
Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 12 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number
HE551497 - JAC - LDC - SCHW - DR - D -0812

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FOR CONTINUATION REFER TO DRAWING SHEET 0021

KELVEDON

EWELL HALL CHASE

HIGHFIELDS LANE

EXISTING CATCHMENT AREAS:

- EXISTING CATCHMENT S2-OU18
- EXISTING CATCHMENT S2-OU21
- EXISTING CATCHMENT S3-OU3
- EXISTING CATCHMENT S2-OU19
- EXISTING CATCHMENT S3-OU1
- EXISTING CATCHMENT S3-OU4
- EXISTING CATCHMENT S2-OU20
- EXISTING CATCHMENT S3-OU2
- EXISTING CATCHMENT S3-OU5

PROPOSED CATCHMENT AREAS:

- PROPOSED CATCHMENT S2-OU18
- PROPOSED CATCHMENT S3-OU1
- PROPOSED CATCHMENT S3-OU4
- PROPOSED CATCHMENT S3-OU13
- PROPOSED CATCHMENT S2-OU19
- PROPOSED CATCHMENT S3-OU2
- PROPOSED CATCHMENT S3-OU5
- PROPOSED CATCHMENT S3-OU14
- PROPOSED CATCHMENT S2-OU27
- PROPOSED CATCHMENT S3-OU3
- PROPOSED CATCHMENT S3-OU7A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND ACCESS TRACK
- PROPOSED GEOCELLULAR ATTENUATION STORAGE
- 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/REGRADED DITCH)
- PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
- PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
- EXISTING CULVERT (TO BE RETAINED)
- EXISTING CULVERT (TO BE ABANDONED)
- EXISTING CULVERT (TO BE EXTENDED)
- PROPOSED CULVERT
- MINOR WATERCOURSE (TO BE RETAINED)
- MINOR WATERCOURSE (TO BE ABANDONED)
- MINOR WATERCOURSE (PROPOSED DIVERSION)
- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	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/2.13

Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

DRAINAGE AND SURFACE WATER PLANS
SHEET 13 OF 21

Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number

PIN | Originator | Volume

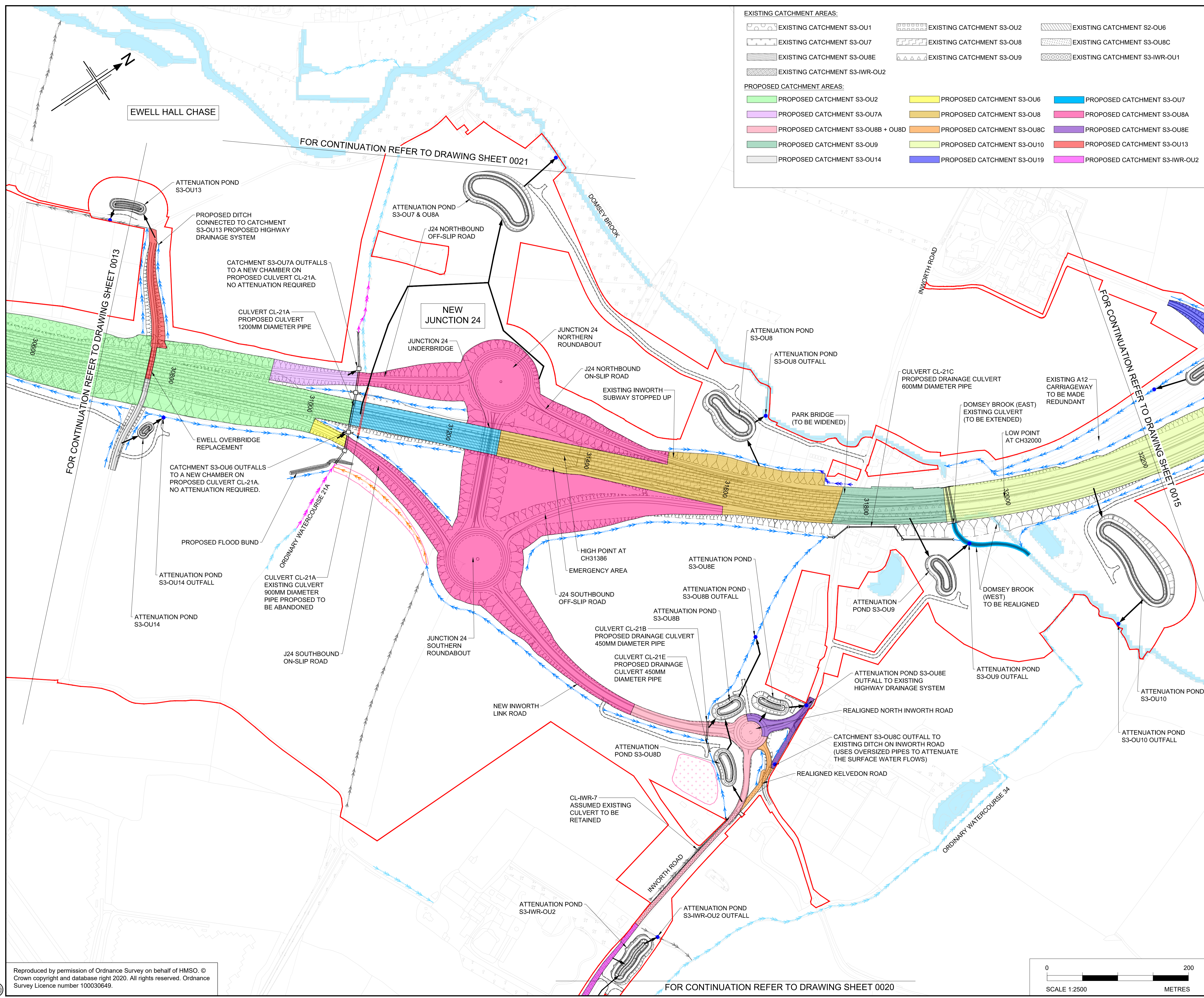
HE551497 - JAC - LDC - SCHW - DR - D - 0813

Location | Type | Role | Number



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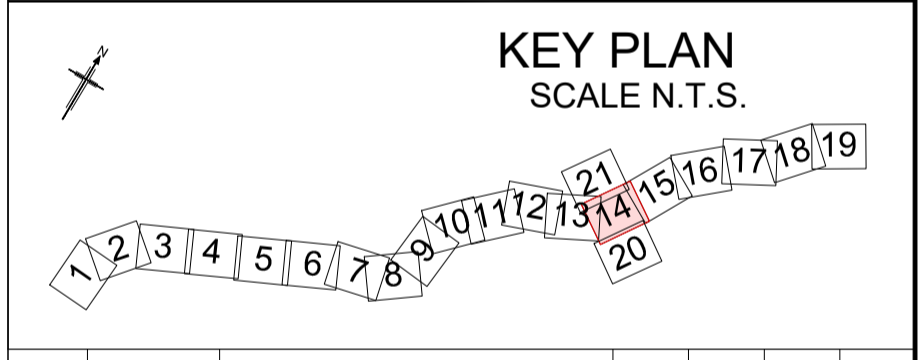
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU1
 - EXISTING CATCHMENT S3-OU7
 - EXISTING CATCHMENT S3-OU8E
 - EXISTING CATCHMENT S3-IWR-OU2
 - EXISTING CATCHMENT S3-OU2
 - EXISTING CATCHMENT S3-OU8
 - EXISTING CATCHMENT S3-OU9
 - EXISTING CATCHMENT S2-OU6
 - EXISTING CATCHMENT S3-OU8C
 - EXISTING CATCHMENT S3-IWR-OU1
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU2
 - PROPOSED CATCHMENT S3-OU7A
 - PROPOSED CATCHMENT S3-OU8B + OU8D
 - PROPOSED CATCHMENT S3-OU9
 - PROPOSED CATCHMENT S3-OU14
 - PROPOSED CATCHMENT S3-OU6
 - PROPOSED CATCHMENT S3-OU8
 - PROPOSED CATCHMENT S3-OU8C
 - PROPOSED CATCHMENT S3-OU10
 - PROPOSED CATCHMENT S3-OU19
 - PROPOSED CATCHMENT S3-OU7
 - PROPOSED CATCHMENT S3-OU8A
 - PROPOSED CATCHMENT S3-OU8E
 - PROPOSED CATCHMENT S3-OU13
 - PROPOSED CATCHMENT S3-IWR-OU2

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
P02	04/04/23	DCO CHANGE	VD	AM	AM	RC
P03	25/05/23	DCO CHANGE	VD	AM	AM	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

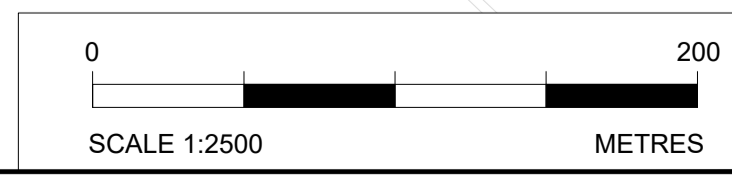
Drawing title: **DRAINAGE AND SURFACE WATER PLANS SHEET 14 OF 21**

Regulation	REGULATION 8(1)(k)
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	P03

HE551497 - JAC - LDC - SCHW - DR - D - 0814

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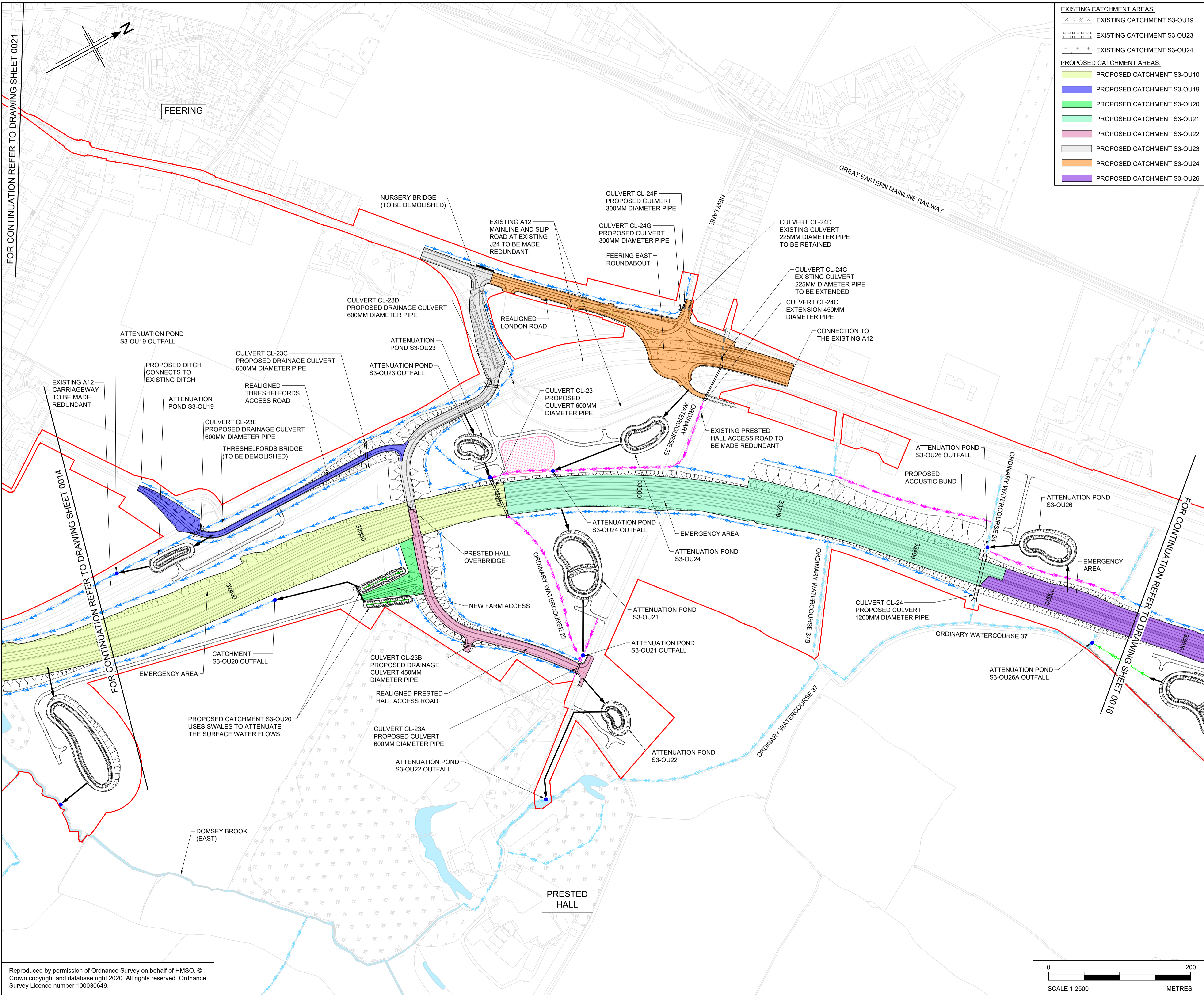


FOR CONTINUATION REFER TO DRAWING SHEET 0020

FOR CONTINUATION REFER TO DRAWING SHEET 0013

FOR CONTINUATION REFER TO DRAWING SHEET 0015

FOR CONTINUATION REFER TO DRAWING SHEET 0021



- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU19
 - EXISTING CATCHMENT S3-OU23
 - EXISTING CATCHMENT S3-OU24
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU10
 - PROPOSED CATCHMENT S3-OU19
 - PROPOSED CATCHMENT S3-OU20
 - PROPOSED CATCHMENT S3-OU21
 - PROPOSED CATCHMENT S3-OU22
 - PROPOSED CATCHMENT S3-OU23
 - PROPOSED CATCHMENT S3-OU24
 - PROPOSED CATCHMENT S3-OU26

- NOTES**
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
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 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
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 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.13			



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

DRAINAGE AND SURFACE WATER PLANS
SHEET 15 OF 21

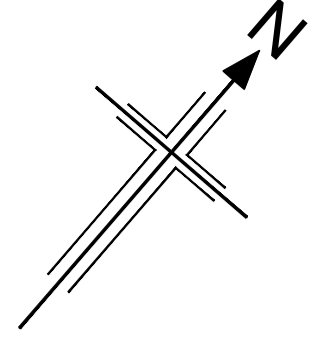
Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0815



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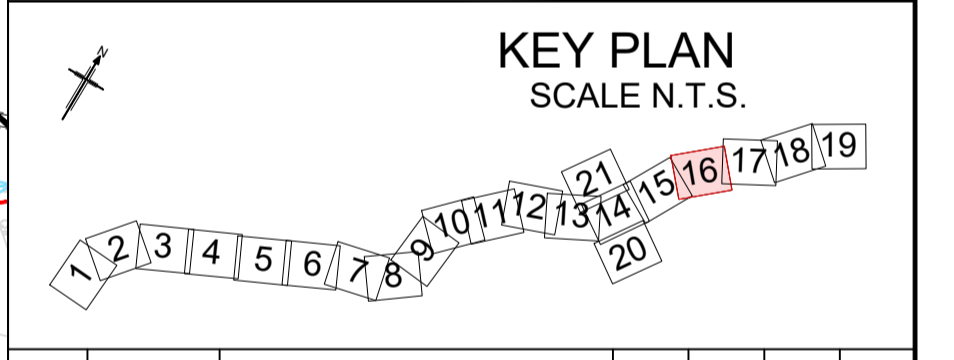
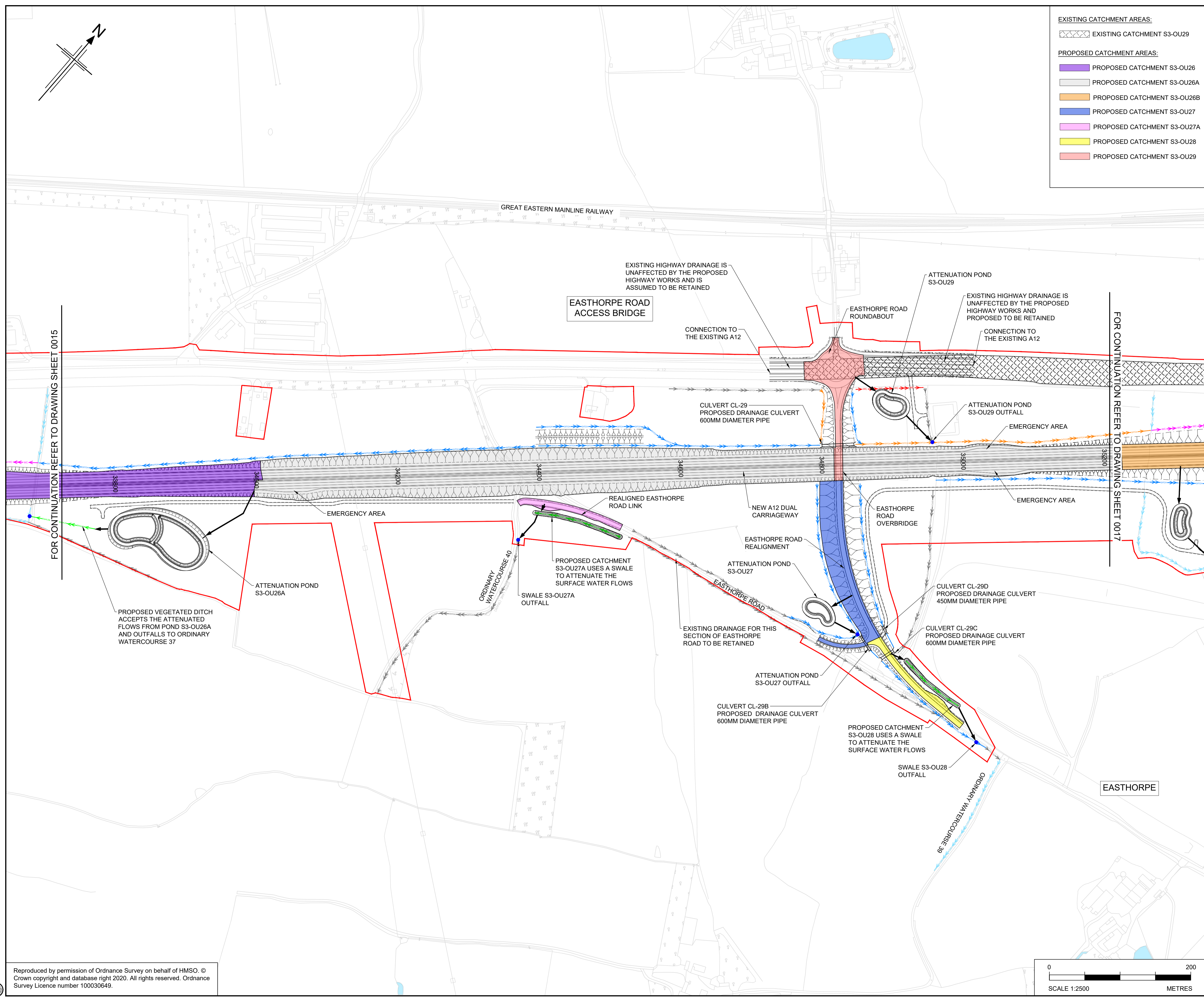
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU29
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU26
 - PROPOSED CATCHMENT S3-OU26A
 - PROPOSED CATCHMENT S3-OU26B
 - PROPOSED CATCHMENT S3-OU27
 - PROPOSED CATCHMENT S3-OU27A
 - PROPOSED CATCHMENT S3-OU28
 - PROPOSED CATCHMENT S3-OU29

- NOTES**
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 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

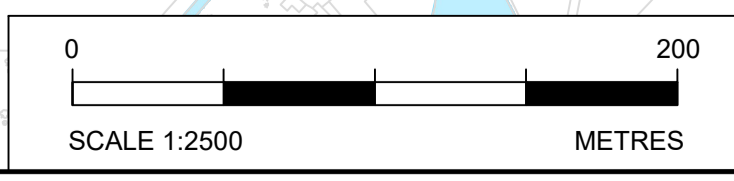
Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 16 OF 21

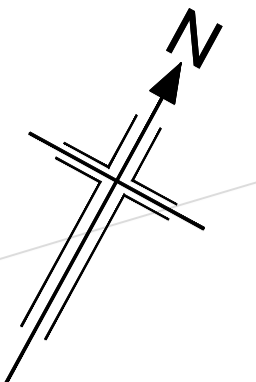
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0816
 PIN: Location: Type: Role: Volume: Number

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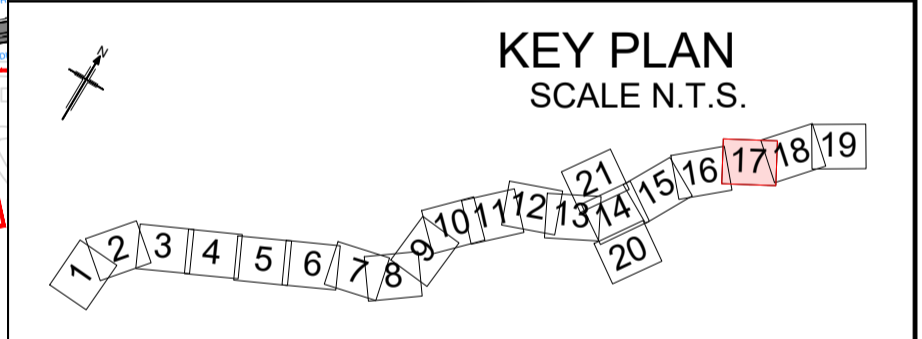




- EXISTING CATCHMENT AREAS:**
- XXXXX EXISTING CATCHMENT S3-OU29
 - △△△△△ EXISTING CATCHMENT S3-OU33
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU26A
 - PROPOSED CATCHMENT S3-OU26B
 - PROPOSED CATCHMENT S3-OU30
 - PROPOSED CATCHMENT S3-OU30A
 - PROPOSED CATCHMENT S3-OU31
 - PROPOSED CATCHMENT S3-OU32
 - PROPOSED CATCHMENT S3-OU33

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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 - THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



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

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

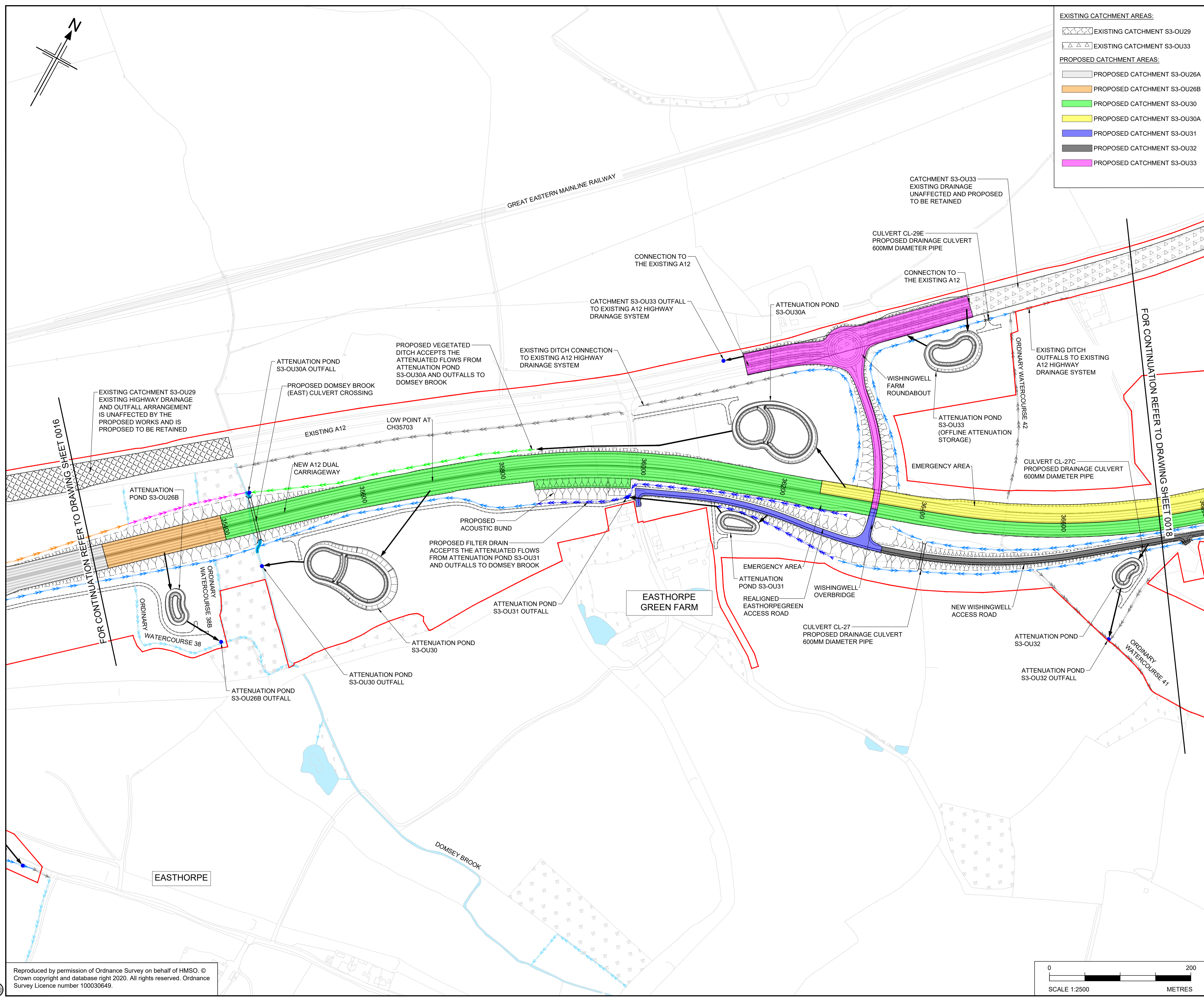


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

DRAINAGE AND SURFACE WATER PLANS
SHEET 17 OF 21

Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		

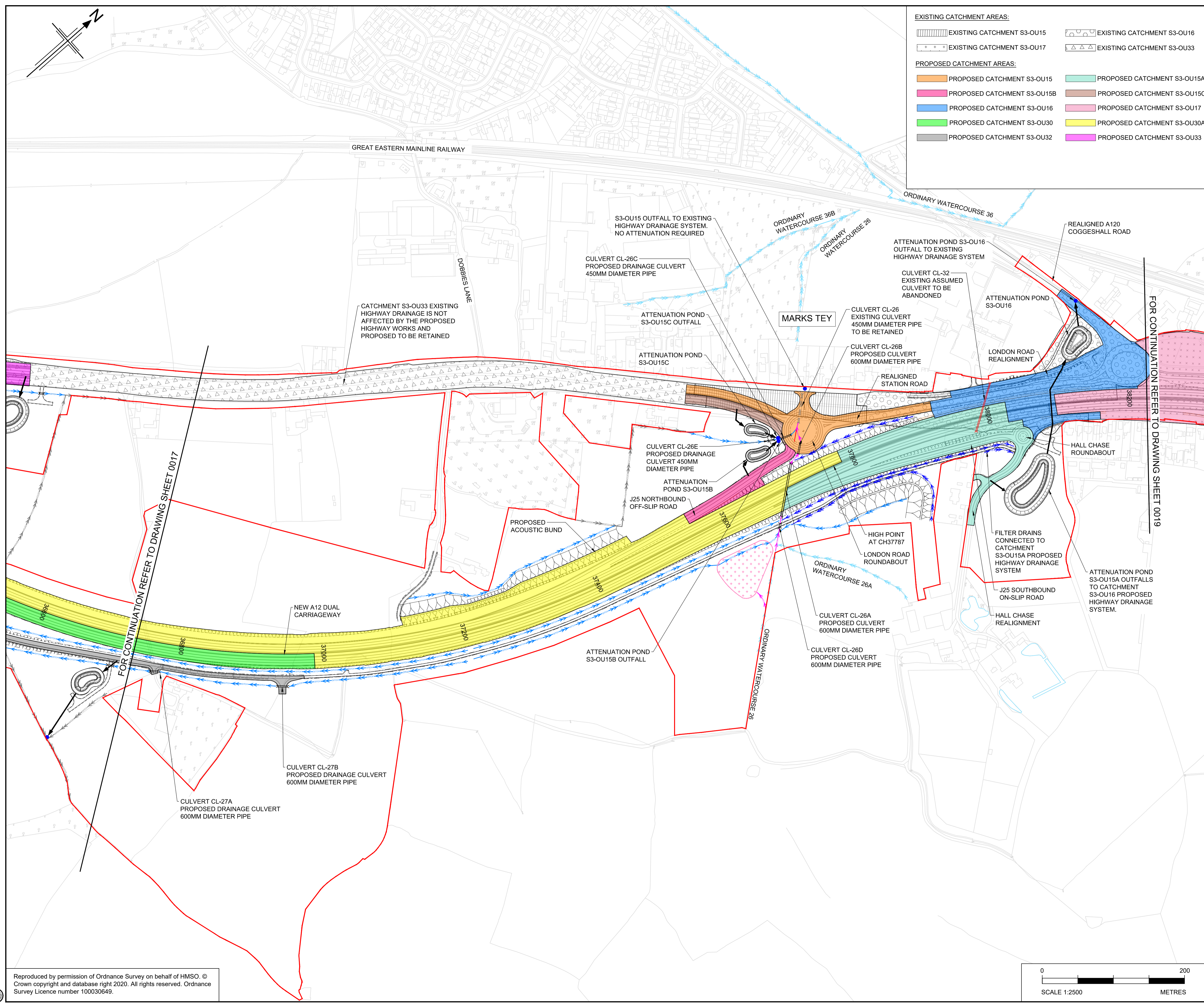
Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0817
 PIN | Originator | Volume | Location | Type | Role | Number



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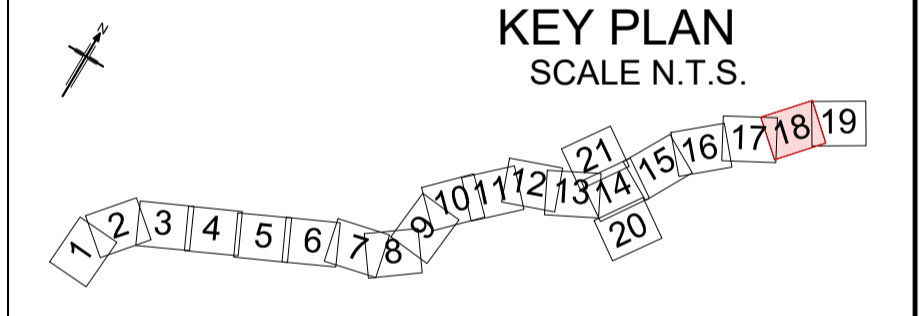




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU15
 - EXISTING CATCHMENT S3-OU16
 - EXISTING CATCHMENT S3-OU17
 - EXISTING CATCHMENT S3-OU33
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU15
 - PROPOSED CATCHMENT S3-OU15A
 - PROPOSED CATCHMENT S3-OU15B
 - PROPOSED CATCHMENT S3-OU15C
 - PROPOSED CATCHMENT S3-OU16
 - PROPOSED CATCHMENT S3-OU17
 - PROPOSED CATCHMENT S3-OU30
 - PROPOSED CATCHMENT S3-OU30A
 - PROPOSED CATCHMENT S3-OU32
 - PROPOSED CATCHMENT S3-OU33

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - 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/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
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 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
P02	04/04/23	DCO CHANGE	VD	AM	AM	RC
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

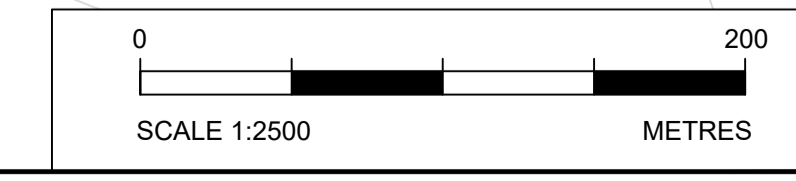
DRAINAGE AND SURFACE WATER PLANS
SHEET 18 OF 21

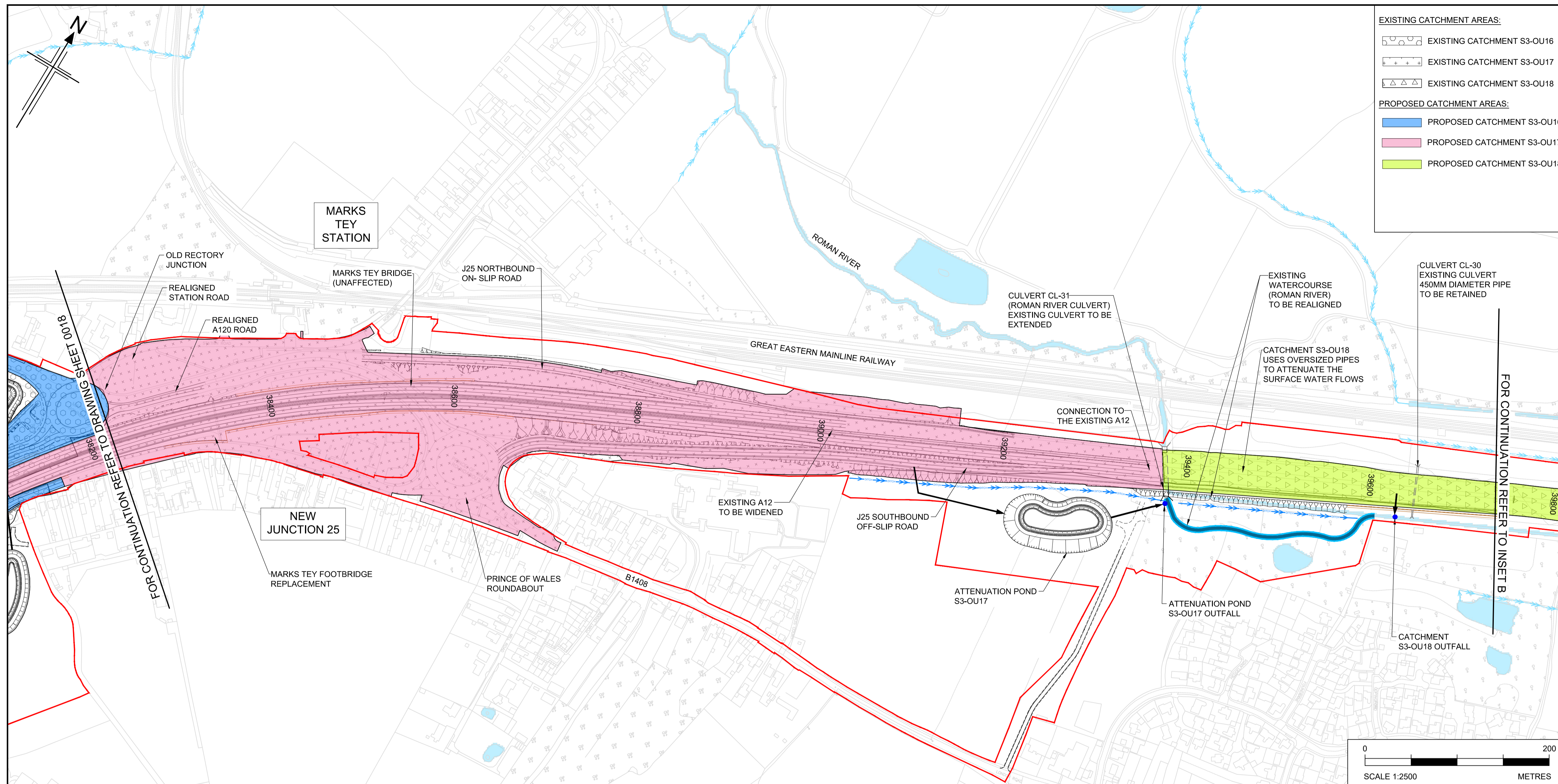
Regulation	REGULATION 113 & 114	
Purpose of issue	DCO EXAM	
State Code	Statutory Procedures and Powers	
Project Stage	PCF 4	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P02

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0818
 PIN | Originator | Volume | Location | Type | Role | Number

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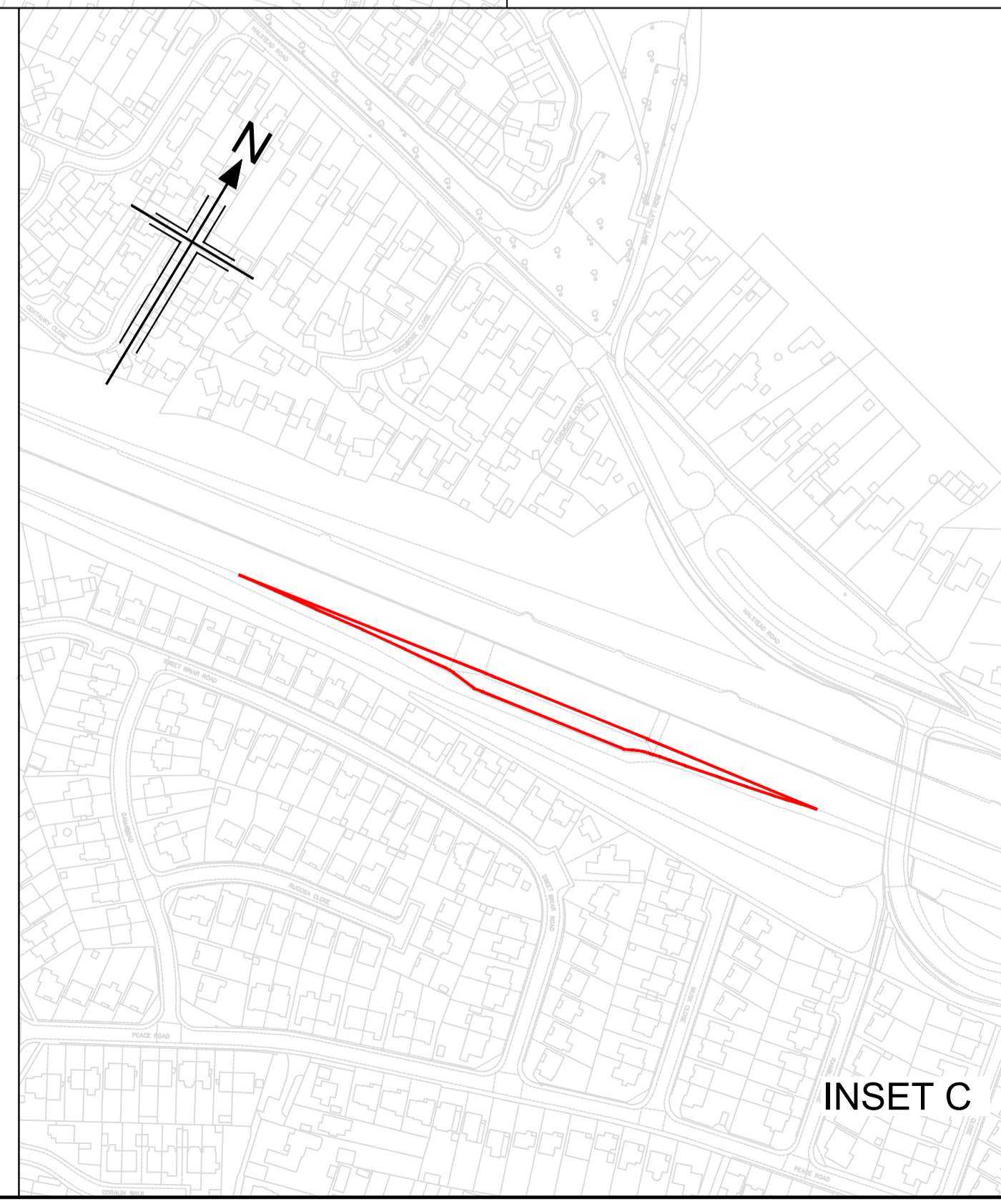
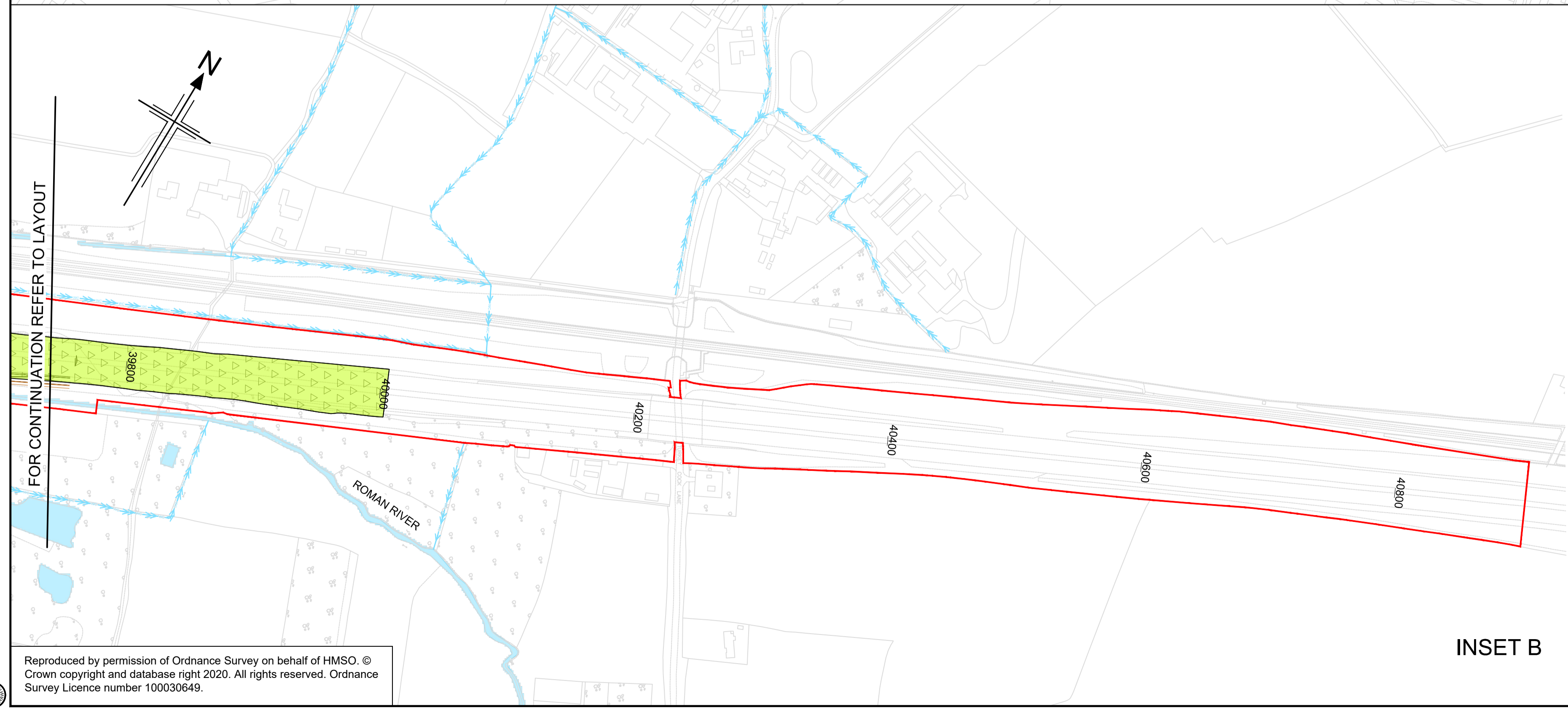
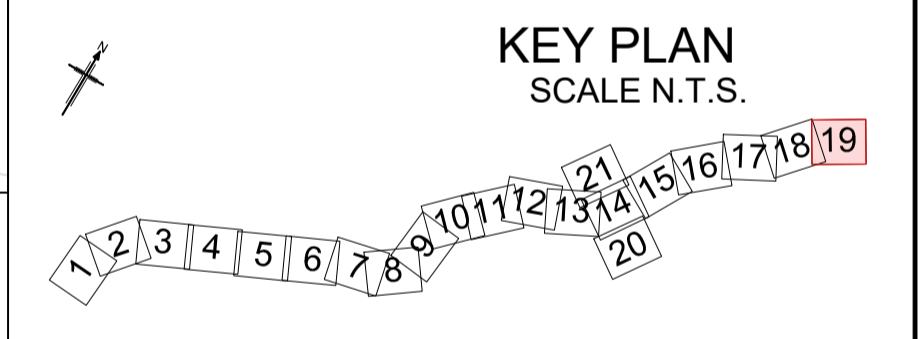




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU16
 - EXISTING CATCHMENT S3-OU17
 - EXISTING CATCHMENT S3-OU18
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU16
 - PROPOSED CATCHMENT S3-OU17
 - PROPOSED CATCHMENT S3-OU18

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

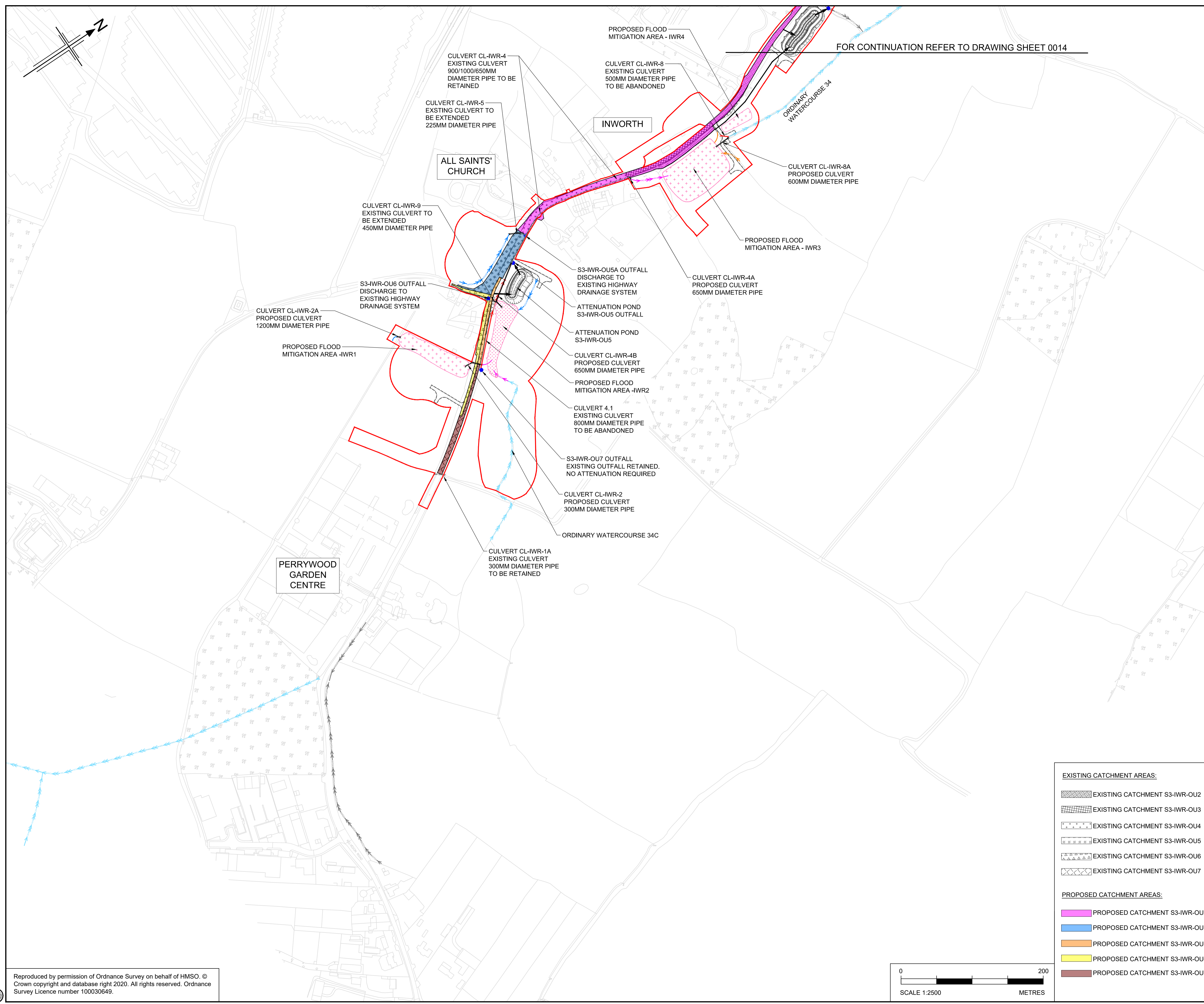
- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
P02	04/04/23	DCO CHANGE	VD	AM	AM	RC
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.13			
Client:						
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 19 OF 21						
Regulation	REGULATION 113 & 114					
Purpose of issue	DCO EXAM					
State Code	Statutory Procedures and Powers					
Project Stage	PCF 4	Drawing status				
Scale at A1 (841x594mm)	1:2500	S4				
Jacobs No.	B36601D1	Rev				
Client no.	HE551497	P02				
Drawing number	PIN	Originator	Volume			
HE551497	JAC	LDC	-			
SCHW	-DR-	D	-0819			

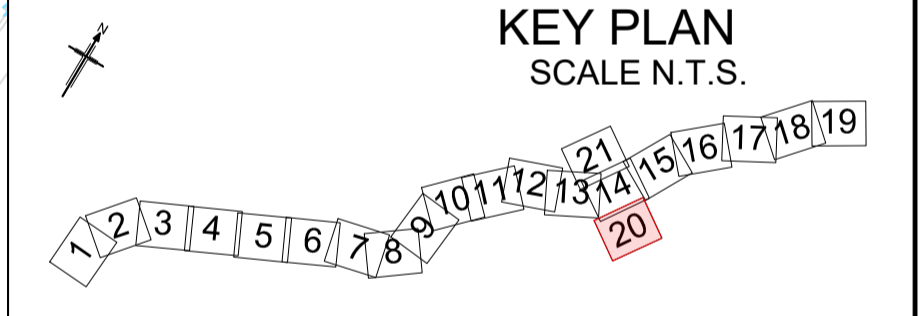
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
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 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
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 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
P02	04/04/23	DCO CHANGE	VD	AM	AM	RC
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13

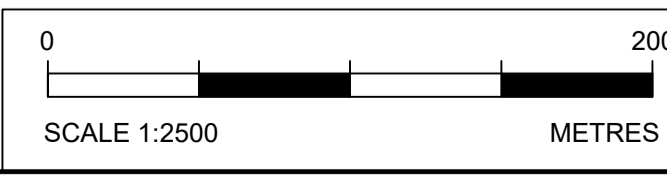


Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 20 OF 21

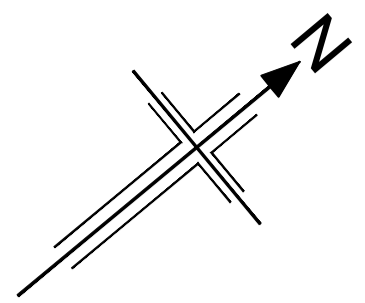
Regulation	REGULATION 113 & 114
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	HE551497 - JAC - LDC - SCHW - DR - D - 0820
PIN	Originator
Location	Volume
Type	Role
Number	Number

- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-IWR-OU2
 - EXISTING CATCHMENT S3-IWR-OU3
 - EXISTING CATCHMENT S3-IWR-OU4
 - EXISTING CATCHMENT S3-IWR-OU5
 - EXISTING CATCHMENT S3-IWR-OU6
 - EXISTING CATCHMENT S3-IWR-OU7
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-IWR-OU2
 - PROPOSED CATCHMENT S3-IWR-OU5A
 - PROPOSED CATCHMENT S3-IWR-OU5
 - PROPOSED CATCHMENT S3-IWR-OU6
 - PROPOSED CATCHMENT S3-IWR-OU7



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NOTES

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LEGEND

- ORDER LIMITS
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- PROPOSED ATTENUATION POND
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- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	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/2.13			



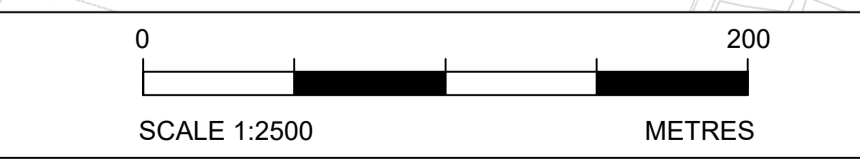
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 21 OF 21

Regulation	REGULATION 5(2)(o)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

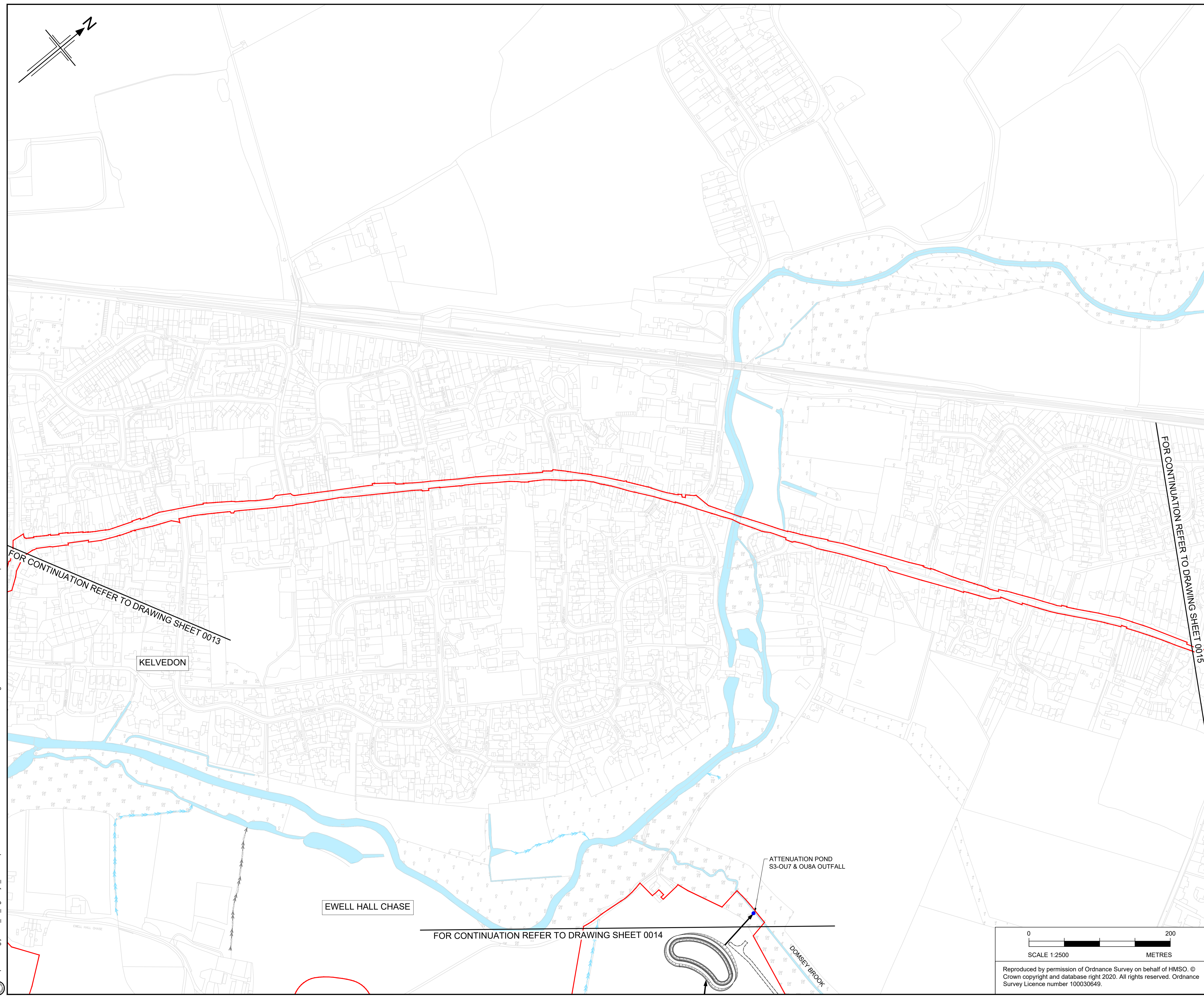
Drawing number
HE551497 - JAC - LDC - SCHW - DR - D - 0821

Originator: JAC
Volume: LDC
Location: SCHW
Type: DR
Role: D
Number: 0821



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FOR CONTINUATION REFER TO DRAWING SHEET 0013

FOR CONTINUATION REFER TO DRAWING SHEET 0015

FOR CONTINUATION REFER TO DRAWING SHEET 0014

ATTENUATION POND
S3-OU7 & OU8A OUTFALL

EWELL HALL CHASE

KELVEDON

DOMSEY BROOK