

A12 Chelmsford to A120 widening scheme

TR010060

**DEVELOPMENT CONSENT ORDER CHANGE
APPLICATION CONSULTATION**

**Map Book 4: B1023 Flood Mitigation and
Drainage
Part 2 of 2**

Rule 113 and 114
Infrastructure Planning (Examination Procedure)
Regulations 2010

April 2023

A12 Chelmsford to A120 widening scheme guide to map book

The six map books prepared for this consultation contain plans of the proposed scheme under the following headings:

- Map Book 1: Junction 19 Slip Road
- Map Book 2: Anglian Water Pumping Station (Bury Lane, Hatfield Peverel)
- Map Book 3: Replacement Land, Witham
- Map Book 4: B1023 Flood Mitigation and Drainage
- Map Book 5: B1023 Roundabout
- Map Book 6: Junction 25

These plans show the changes we have made since our Development Consent Order (DCO) application was accepted for examination in 2022 and are published for the purposes of the consultation on the proposed changes. The proposals are therefore subject to change due to consultation feedback and further design development.

Please read these plans in conjunction with the consultation brochure and technical notes, which provides further information on the consultation and how to respond.

Each map book shows the plans that have been updated to capture the proposed changes in that area. For example, Map Book 1 shows the changes

around the junction 19 slip road and Map Book 6 shows the changes around junction 25.

The Streets, Rights of Way and Access Plans also now show Limits of Deviation (LoD) for walking, cycling and horse riding (WCH) routes. The LoD are based on the LoD shown on the Works Plans. This amendment to the Streets, Rights of Way and Access plans will help to illustrate the flexibility we have during detailed design to refine the design of WCH routes within the remit of the Order.

Map Book 4: B1023 Flood Mitigation and Drainage

As a result of additional information available to the project such as site surveys and investigations, it is now proposed to reduce the amount of flood compensation and attenuation pond works alongside the B1023. As a result of the new design, there has been a reduction in the number of drainage ponds from four down to two. Further the number of flood mitigation areas has reduced from seven down to four, and of those four two have also reduced in size.

A list of plans that have been updated to show this change is included in the Schedule of

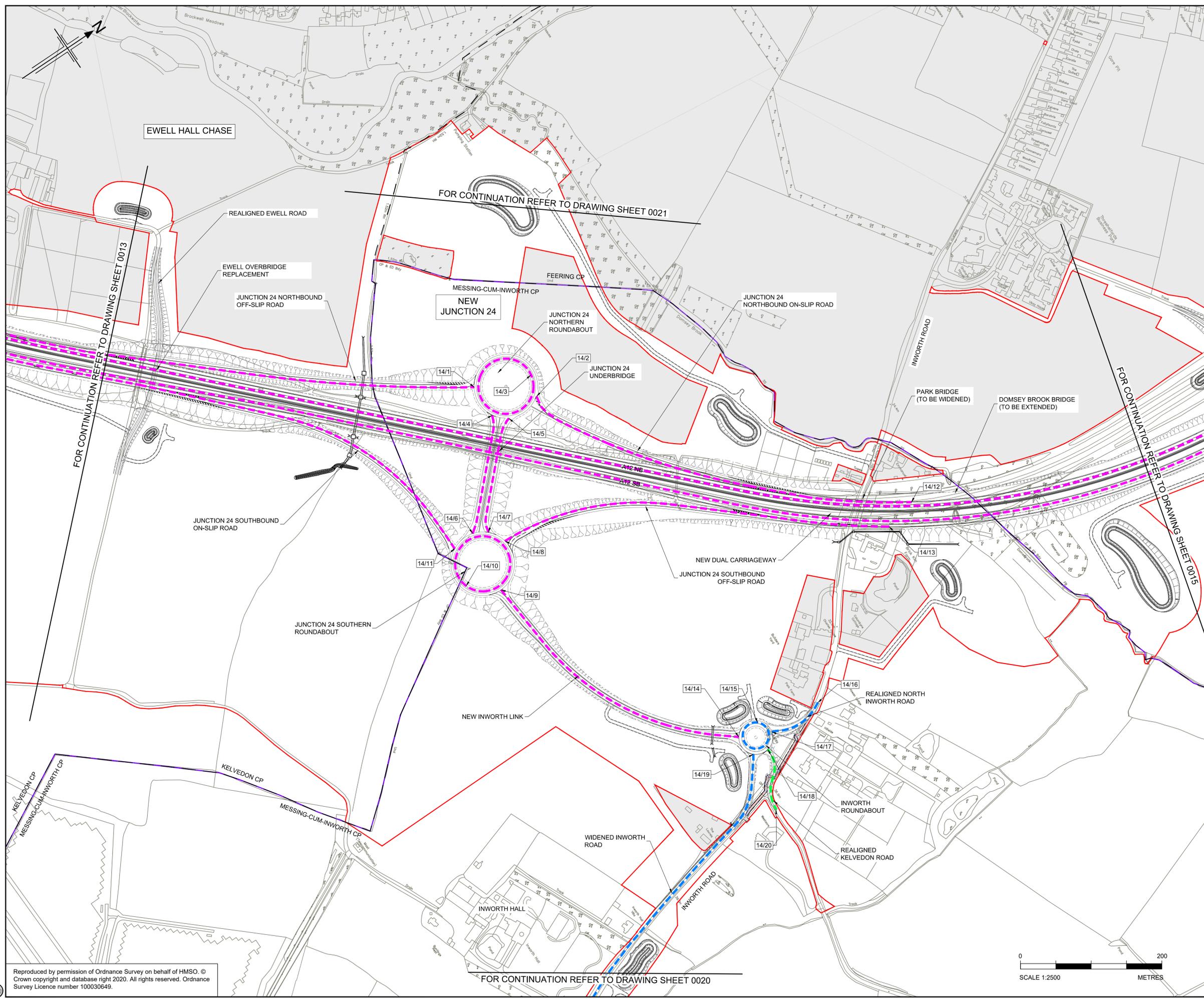
Plans on the following page.

Map Book 4 consists of two parts with the drawings in each part indicated in the table as follows:

- Map Book 4 Part 1
- Map Book 4 Part 2

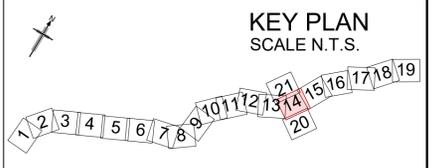
Drawing Number	Drawing Title	Revision
PART 1		
HE551497-JAC-LDC-SCHW-DR-C-0010	General Arrangement Plans Key Plan	P01
HE551497-JAC-LDC-SCHW-DR-C-0020	General Arrangement Plans Legend	P02
HE551497-JAC-LDC-SCHW-DR-C-0034	General Arrangement Plans Ch. 30700 to Ch. 32200 Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0040	General Arrangement Plans Ch. 18300 to Ch. 19600/20000 Sheet 20 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0922	DCO Works Plans Legend	P03
HE551497-JAC-LDC-SCHW-DR-C-0914	DCO Works Plans – Permanent Works Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0920	DCO Works Plans – Permanent Works Sheet 20 of 21	P02
HE551497-ARD-LDC-SCHW-DR-X-0314	Land Plans Sheet 14 of 21	P03
HE551497-ARD-LDC-SCHW-DR-X-0320	Land Plans Sheet 20 of 21	P03
HE551497-JAC-LDC-SCHW-DR-C-0114	Traffic Regulation Measures Speed Limits Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0214	Traffic Regulation Measures Movement Restrictions Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0314	Revocation of Existing Traffic Orders Sheet 14 of 21	P02
PART 2		
HE551497-JAC-LDC-SCHW-DR-C-0614	Classification of Roads Plans Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-C-0514	Streets, Rights of Way and Access Plans Sheet 14 of 21	P04
HE551497-JAC-LDC-SCHW-DR-C-0520	Streets, Rights of Way and Access Plans Sheet 20 of 21	P04

Drawing Number	Drawing Title	Revision
PART 2		
HE551497-JAC-LDC-SCHW-DR-D-0814	Drainage and Surface Water Plans Sheet 14 of 21	P02
HE551497-JAC-LDC-SCHW-DR-D-0820	Drainage and Surface Water Plans Sheet 20 of 21	P02
HE551497-JAC-LDC-SCHW-DR-L-0120	Retained and Removed Vegetation Plans Ch. 18300 to Ch. 19600/20000 Sheet 20 of 21	P03
HE551497-JAC-LDC-SCHW-DR-L-0220	Environmental Statement Environmental Masterplan Ch. 18300 to Ch. 19600/20000 Sheet 20 of 21	P03



- NOTES**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS IN PARTICULAR SCHEDULE 3 OF THE DEVELOPMENT CONSENT ORDER.

- LEGEND**
- PROPOSED TRUNK ROAD
 - PROPOSED CLASSIFIED A ROADS
 - PROPOSED CLASSIFIED B ROADS
 - PROPOSED CLASSIFIED C ROADS
 - PROPOSED UNCLASSIFIED ROADS
 - PARISH BOUNDARY
 - ADMINISTRATIVE BOUNDARY
 - ORDER LIMITS
 - ORDER LIMITS EXCLUSION ZONE
 - ROAD CLASSIFICATION - REFERENCE LABEL
 - NB NORTHBOUND
 - EB EASTBOUND
 - SB SOUTHBOUND
 - WB WESTBOUND



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	02/08/22	FINAL FOR DCO SUBMISSION	AE	CA	CA	DT
P02	03/04/23	DCO CHANGES	OB	LH	RM	RM

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.4



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
CLASSIFICATION OF ROADS PLANS
SHEET 14 OF 21

Regulation	REGULATION 113 & 114		
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	
Jacobs No.	B36601D1	Rev	P02
Client no.	HE551497		

Drawing number
 PIN Originator Volume
HE551497 - JAC - LDC -
 Location Type Role Number
SCHW -DR- C -0614



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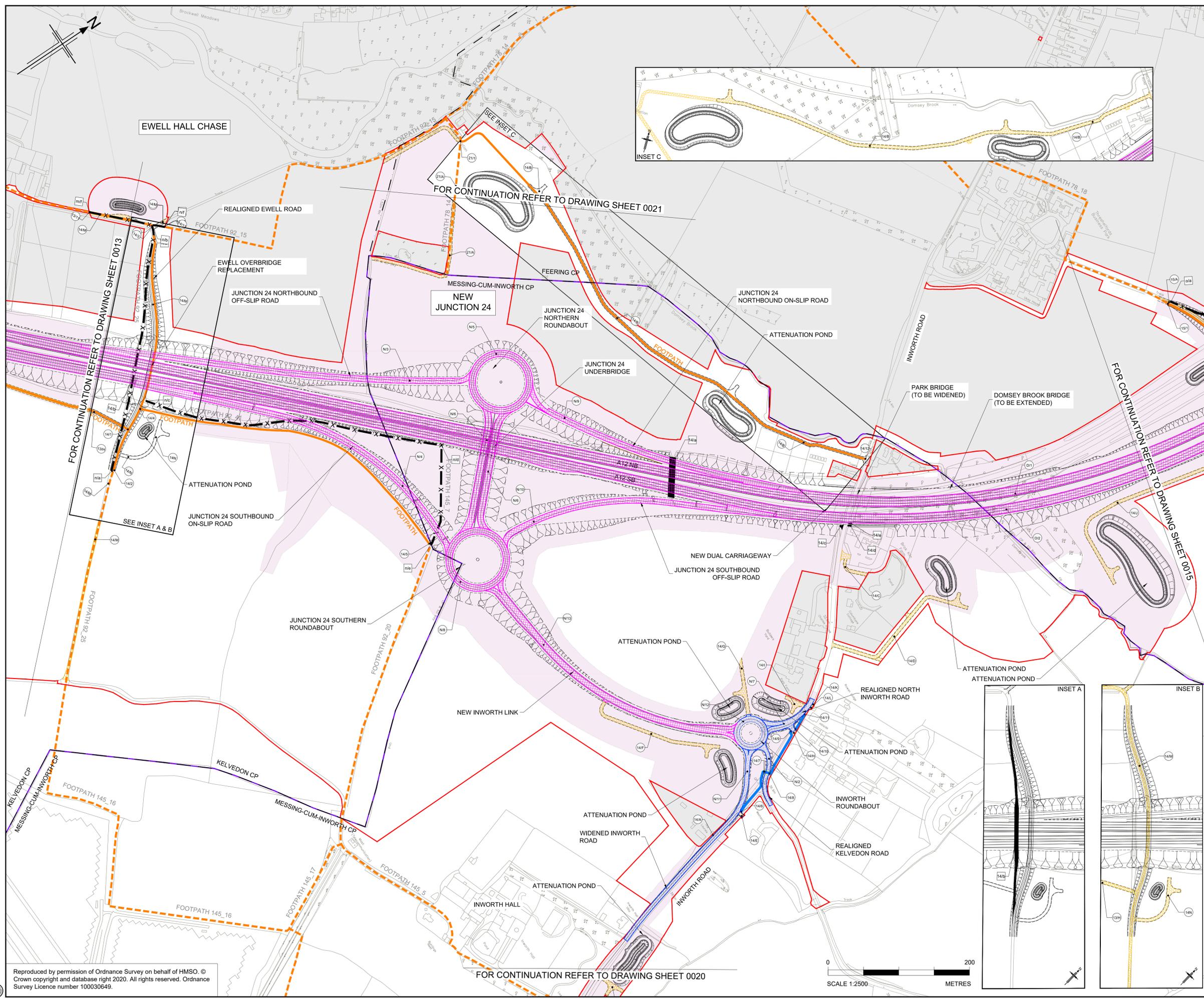
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FOR CONTINUATION REFER TO DRAWING SHEET 0020

FOR CONTINUATION REFER TO DRAWING SHEET 0013

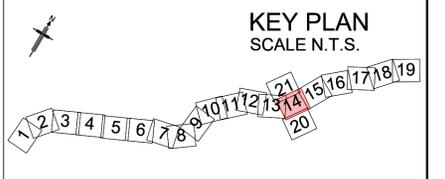
FOR CONTINUATION REFER TO DRAWING SHEET 0021

FOR CONTINUATION REFER TO DRAWING SHEET 0015



- NOTES**
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 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS.

- LEGEND**
- EXISTING PRIVATE MEANS OF ACCESS TO BE STOPPED UP
 - NEW HIGHWAY - TRUNK ROAD
 - NEW HIGHWAY - NON-TRUNK ROAD
 - NEW PRIVATE MEANS OF ACCESS
 - NEW PRIVATE MEANS OF ACCESS WITH PHYSICAL WORKS
 - NEW CYCLE TRACK
 - NEW FOOTWAY / BRIDLEWAY
 - NEW HIGHWAY - REFERENCE LABEL
 - EXISTING PRIVATE MEANS OF ACCESS TO BE STOPPED UP - REFERENCE LABEL
 - NEW PRIVATE MEANS OF ACCESS - REFERENCE LABEL
 - PUBLIC RIGHT OF WAY TO BE STOPPED UP - REFERENCE LABEL
 - NEW FOOTWAY / FOOTPATH / CYCLE TRACK / BRIDLEWAY - REFERENCE LABEL
 - ORDER LIMITS
 - PARISH BOUNDARY
 - ADMINISTRATIVE BOUNDARY
 - PUBLIC RIGHT OF WAY TO BE STOPPED UP
 - EXISTING PUBLIC RIGHT OF WAY
 - EXISTING CYCLE TRACK
 - LAND NOT INCLUDED WITHIN THE ORDER LIMIT
 - CONTROLLED CROSSING LOCATION
 - UNCONTROLLED CROSSING LOCATION
 - NB NORTHBOUND
 - SB SOUTHBOUND
 - LIMITS OF DEVIATION FOR NEW & IMPROVED FOOTWAY, FOOTPATH, CYCLE TRACK OR BRIDLEWAY



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	01/08/22	FINAL FOR DCO SUBMISSION	AE	CA	CA	DT
P02	05/10/22	FINAL FOR DCO SUBMISSION	ES	CA	RM	RM
P03	04/04/23	DCO CHANGE	AE	LH	RM	RM
P04	05/04/23	DCO CHANGE	AE	LH	RM	RM

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.6



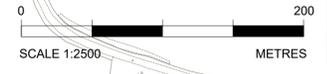
Client: national highways
 Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

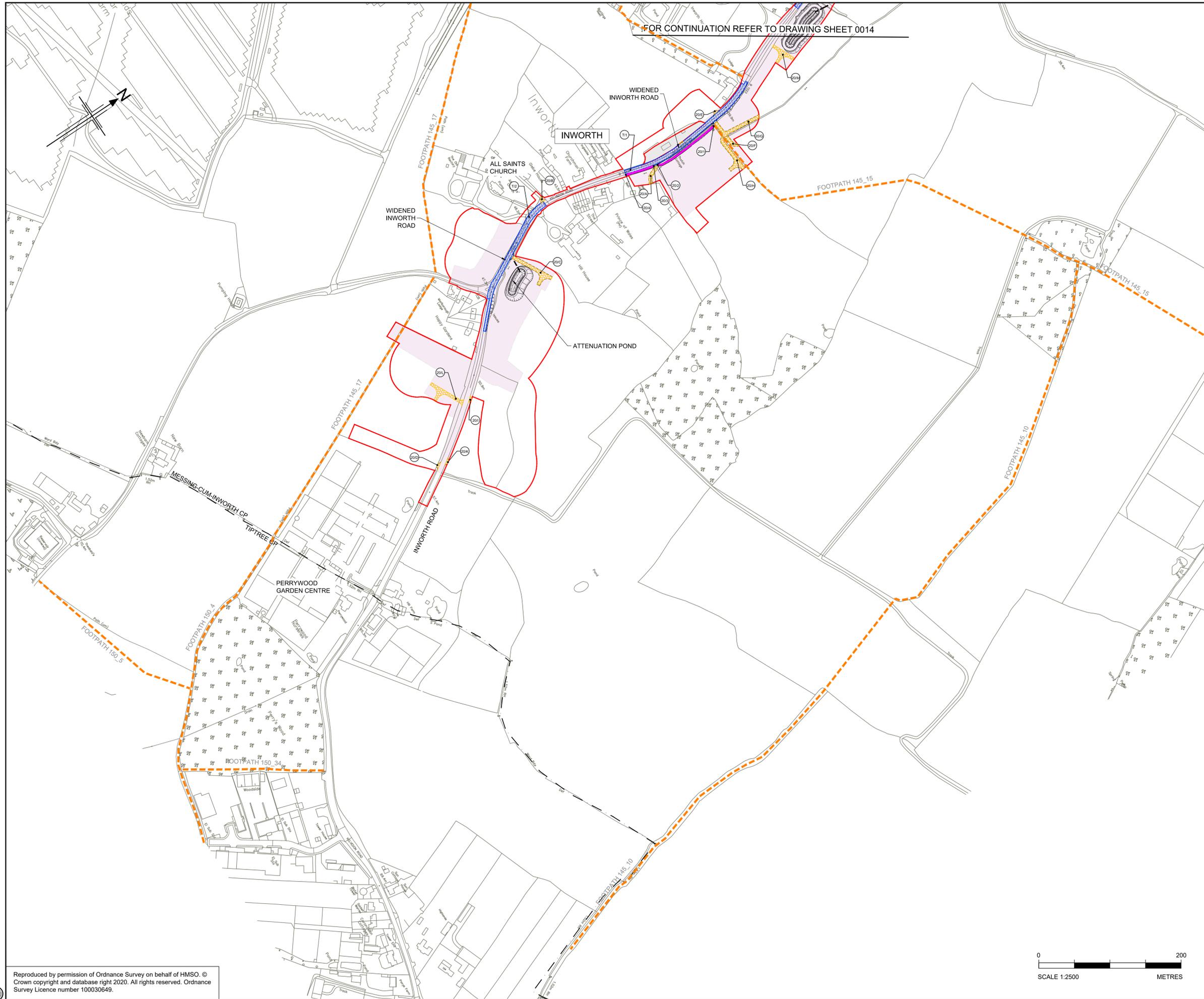
Drawing title: STREETS, RIGHTS OF WAY AND ACCESS PLANS SHEET 14 OF 21

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- C -0514
PIN	JAC
Originator	LDC
Volume	-
Location	SCHW
Type	-DR-
Role	C
Number	0514

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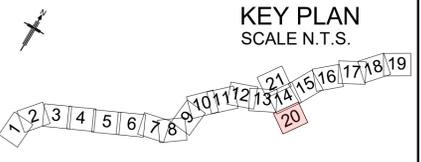




FOR CONTINUATION REFER TO DRAWING SHEET 0014

- NOTES**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS.

- LEGEND**
- EXISTING PRIVATE MEANS OF ACCESS TO BE STOPPED UP
 - NEW HIGHWAY - TRUNK ROAD
 - NEW HIGHWAY - NON -TRUNK ROAD
 - NEW PRIVATE MEANS OF ACCESS
 - NEW PRIVATE MEANS OF ACCESS WITH PHYSICAL WORKS
 - NEW CYCLE TRACK
 - NEW FOOTWAY
 - NEW FOOTPATH / BRIDLEWAY
 - NEW HIGHWAY - REFERENCE LABEL
 - EXISTING PRIVATE MEANS OF ACCESS TO BE STOPPED UP - REFERENCE LABEL
 - NEW PRIVATE MEANS OF ACCESS - REFERENCE LABEL
 - PUBLIC RIGHT OF WAY TO BE STOPPED UP - REFERENCE LABEL
 - NEW FOOTWAY / FOOTPATH / CYCLE TRACK / BRIDLEWAY - REFERENCE LABEL
 - ORDER LIMITS
 - PARISH BOUNDARY
 - ADMINISTRATIVE BOUNDARY
 - PUBLIC RIGHT OF WAY TO BE STOPPED UP
 - EXISTING PUBLIC RIGHT OF WAY
 - EXISTING CYCLE TRACK
 - LAND NOT INCLUDED WITHIN THE ORDER LIMIT
 - CONTROLLED CROSSING LOCATION
 - UNCONTROLLED CROSSING LOCATION
 - NORTHBOUND
 - SOUTHBOUND
 - LIMITS OF DEVIATION FOR NEW & IMPROVED FOOTWAY, FOOTPATH, CYCLE TRACK OR BRIDLEWAY



P01	01/08/22	FINAL FOR DCO SUBMISSION	AE	CA	CA	DT
P02	05/10/22	FINAL FOR DCO SUBMISSION	ES	CA	RM	RM
P03	04/04/23	DCO CHANGE	AE	LH	RM	RM
P04	05/04/23	DCO CHANGE	AE	LH	RM	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/2.6



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
STREETS, RIGHTS OF WAY AND ACCESS PLANS SHEET 20 OF 21

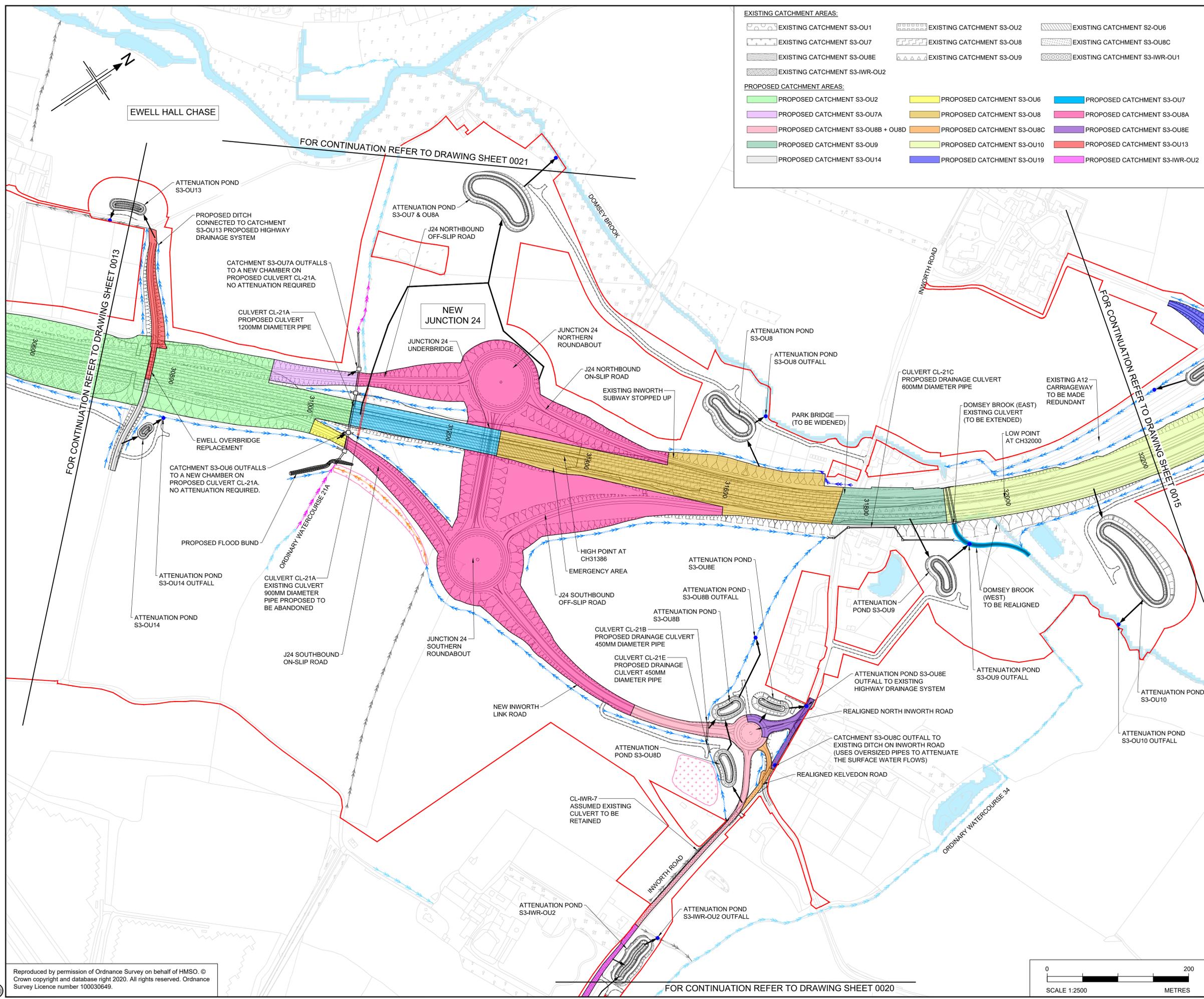
Regulation	REGULATION 113 & 114		
Purpose of issue	DCO EXAM		
State Code	Statutory Procedures and Powers		
Project Stage	PCF 4	Drawing status	S4
Scale at A1 (841x594mm)	1:2500	Rev	P04
Jacobs No.	B36601D1	Client no.	HE551497

Drawing number
PIN | Originator | Volume
HE551497 - JAC - LDC -
Location | Type | Role | Number
SCHW -DR- C -0520



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EXISTING CATCHMENT AREAS:

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[Pattern]	EXISTING CATCHMENT S3-IWR-OU2				

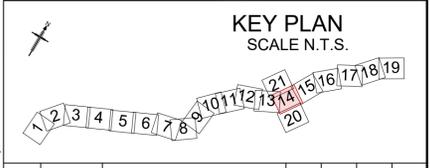
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[Color]	PROPOSED CATCHMENT S3-OU14	[Color]	PROPOSED CATCHMENT S3-OU19	[Color]	PROPOSED CATCHMENT S3-IWR-OU2

- 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

[Symbol]	ORDER LIMITS
[Symbol]	PROPOSED HIGHWAY DRAINAGE OUTFALL
[Symbol]	PROPOSED ATTENUATION POND
[Symbol]	PROPOSED ATTENUATION POND ACCESS TRACK
[Symbol]	PROPOSED GEOCELLULAR ATTENUATION STORAGE
[Symbol]	INDICATIVE OUTFALL ROUTE
[Symbol]	PROPOSED SWALE/VEGETATED DITCH
[Symbol]	PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
[Symbol]	PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
[Symbol]	PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
[Symbol]	PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
[Symbol]	PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
[Symbol]	PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
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[Symbol]	PROPOSED CULVERT
[Symbol]	MINOR WATERCOURSE (TO BE RETAINED)
[Symbol]	MINOR WATERCOURSE (TO BE ABANDONED)
[Symbol]	MINOR WATERCOURSE (PROPOSED DIVERSION)
[Symbol]	PROPOSED FLOOD BUND
[Symbol]	PROPOSED FLOOD MITIGATION AREA
[Symbol]	EXISTING WATERBODIES/ MAIN RIVER
[Symbol]	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:	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 14 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	P02

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

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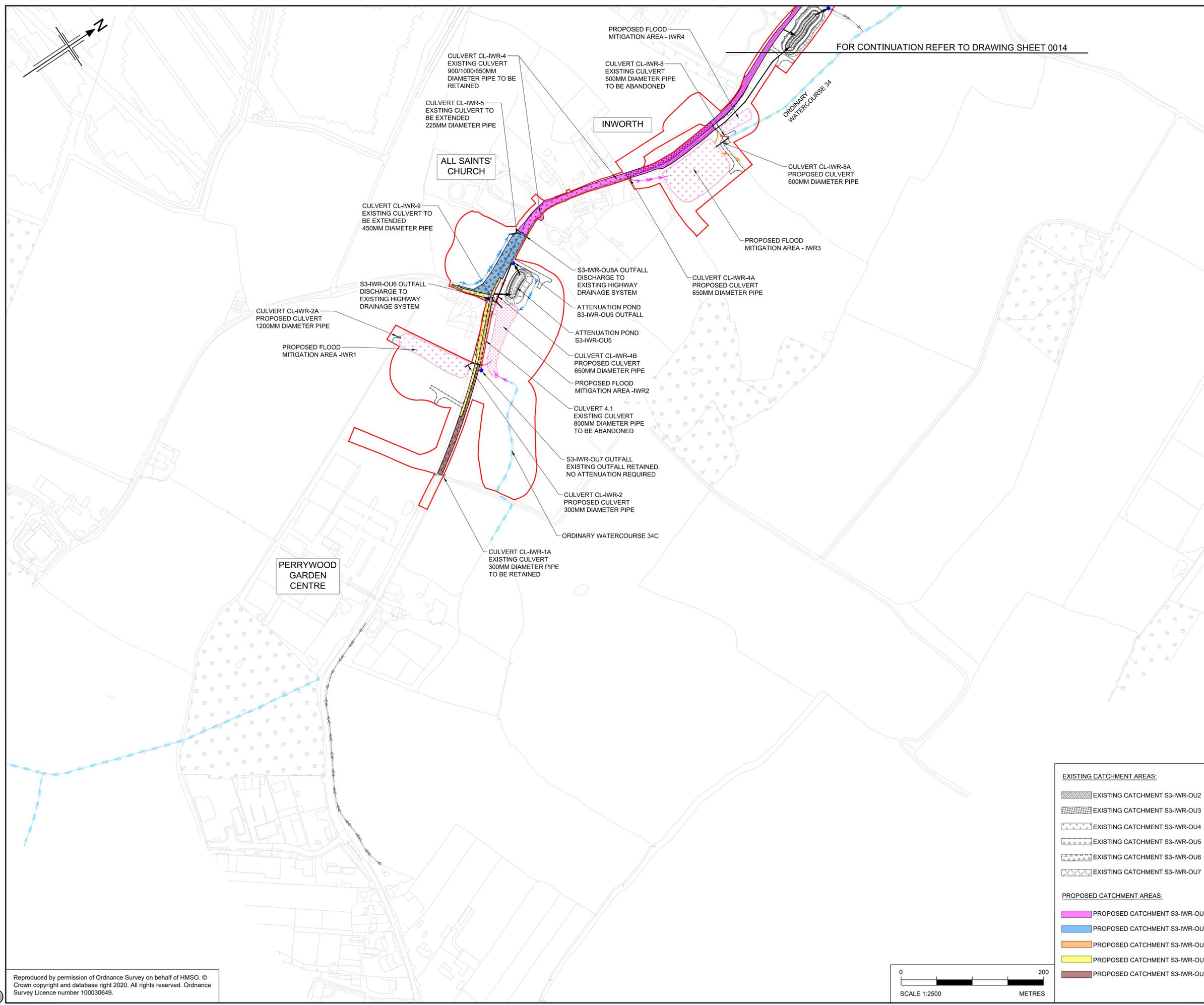


FOR CONTINUATION REFER TO DRAWING SHEET 0020

FOR CONTINUATION REFER TO DRAWING SHEET 0013

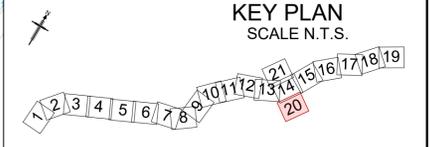
FOR CONTINUATION REFER TO DRAWING SHEET 0021

FOR CONTINUATION REFER TO DRAWING SHEET 0015



- 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	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 20 OF 21

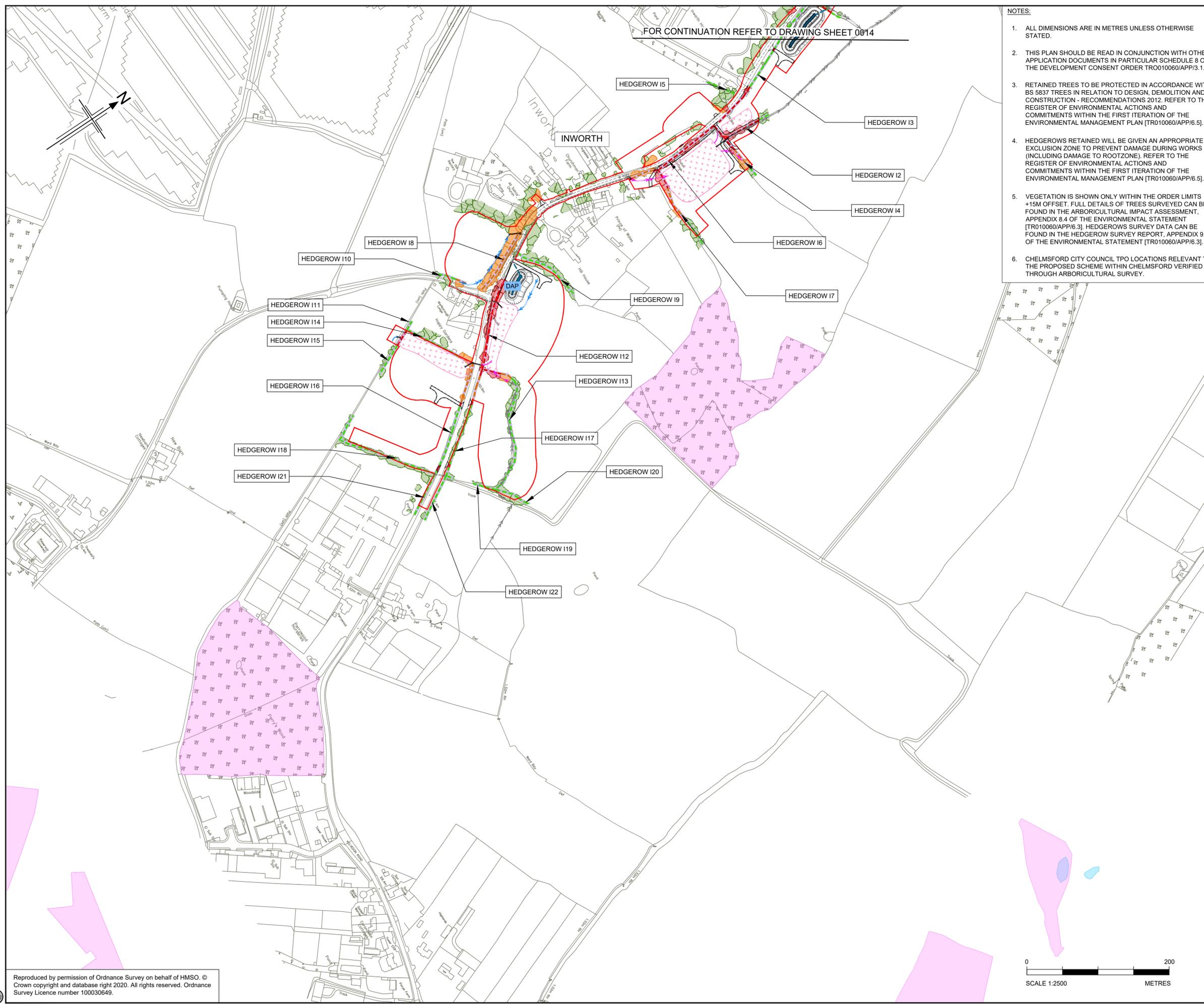
Regulation	REGULATION 113 & 114
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	HE551497 - JAC - LDC - SCHW - DR - D - 0820
Originator	JAC
Volume	-
Location	-
Type	-
Role	-
Number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

- 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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FOR CONTINUATION REFER TO DRAWING SHEET 0014

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS IN PARTICULAR SCHEDULE 8 OF THE DEVELOPMENT CONSENT ORDER TR010060/APP/3.1.
 - RETAINED TREES TO BE PROTECTED IN ACCORDANCE WITH BS 5837 TREES IN RELATION TO DESIGN, DEMOLITION AND CONSTRUCTION - RECOMMENDATIONS 2012. REFER TO THE REGISTER OF ENVIRONMENTAL ACTIONS AND COMMITMENTS WITHIN THE FIRST ITERATION OF THE ENVIRONMENTAL MANAGEMENT PLAN (TR010060/APP/6.5).
 - HEDGEROWS RETAINED WILL BE GIVEN AN APPROPRIATE EXCLUSION ZONE TO PREVENT DAMAGE DURING WORKS (INCLUDING DAMAGE TO ROOTZONE). REFER TO THE REGISTER OF ENVIRONMENTAL ACTIONS AND COMMITMENTS WITHIN THE FIRST ITERATION OF THE ENVIRONMENTAL MANAGEMENT PLAN (TR010060/APP/6.5).
 - VEGETATION IS SHOWN ONLY WITHIN THE ORDER LIMITS +15M OFFSET. FULL DETAILS OF TREES SURVEYED CAN BE FOUND IN THE ARBORICULTURAL IMPACT ASSESSMENT, APPENDIX 8.4 OF THE ENVIRONMENTAL STATEMENT (TR010060/APP/6.3). HEDGEROWS SURVEY DATA CAN BE FOUND IN THE HEDGEROW SURVEY REPORT, APPENDIX 9.7 OF THE ENVIRONMENTAL STATEMENT (TR010060/APP/6.3).
 - CHELMSFORD CITY COUNCIL TPO LOCATIONS RELEVANT TO THE PROPOSED SCHEME WITHIN CHELMSFORD VERIFIED THROUGH ARBORICULTURAL SURVEY.

LEGEND

EXISTING ENVIRONMENTAL FEATURES

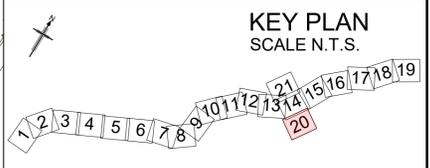
- OPEN WATER
- CONSERVATION AREAS
- ANCIENT WOODLAND
- TREE PRESERVATION ORDER (SHOWN FOR INDIVIDUAL / GROUPS OF TREES)
NOTE: TREE PRESERVATION ORDER DATA IS ILLUSTRATED WITHIN THE EXTENT OF THE ORDER LIMITS PLUS 15M.
- ANCIENT TREE (VA) VERIFIED BY THE WOODLAND TRUST
- NOTABLE TREE (VN) VERIFIED BY THE WOODLAND TRUST
- VETERAN TREE (VV) VERIFIED BY THE WOODLAND TRUST
- POTENTIAL ANCIENT TREE (PA) (INDIVIDUAL)
- POTENTIAL VETERAN TREE (PV) (INDIVIDUAL)
- POTENTIAL ANCIENT TREE (PA) (GROUP)
- POTENTIAL VETERAN TREE (PV) (GROUP)
- A-GRADE TREES IDENTIFIED IN THE ARBORICULTURAL IMPACT ASSESSMENT (DCO DOC REF TR010060/APP/6.3)
- CONFIRMED BAT ROOST TREES (AS RECEIVED FROM ECOLOGICAL SURVEY)
- INDICATIVE CANOPIES OF TREES OVER 3M HIGH (NATIONAL TREE MAP TM © BLUESKY INTERNATIONAL Ltd)
- IMPORTANT HEDGEROWS (HEDGEROW REGULATIONS, 1997) IDENTIFIED IN CHAPTER 9: BIODIVERSITY (DCO DOC REF TR010060/APP/6.1)
- POTENTIALLY IMPORTANT HEDGEROWS (DESKTOP ASSESSMENT)
- HEDGEROWS IDENTIFIED IN CHAPTER 9: BIODIVERSITY (DCO DOC REF TR010060/APP/6.1)

PROPOSED SCHEME FEATURES

- ORDER LIMITS
- CCL PROPOSED TEMPORARY CONSTRUCTION COMPOUND AND/OR LAY DOWN AREAS (CCL)
- SSC PROPOSED TEMPORARY SOIL STORAGE (SSC)
- PROPOSED TEMPORARY HAUL ROAD
- BORROW PIT
- DRAINAGE ATTENUATION POND

TREES AND HEDGEROWS TO BE REMOVED / AT RISK OF REMOVAL

- TREES AT RISK OF BEING REMOVED
- TREES TO BE REMOVED
- HEDGEROWS AT RISK OF BEING REMOVED
- HEDGEROWS TO BE REMOVED



P01	02/08/22	FINAL FOR DCO SUBMISSION	DR	HA	HM	DT
P02	03/04/23	DEADLINE 4 UPDATE	DR	HB	HM	RM
P03	04/04/23	DCO CHANGE	DR	HA	HB	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/2.14

Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **RETAINED AND REMOVED VEGETATION PLANS CH. 18300 TO 19600/20000 SHEET 20 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	P03	

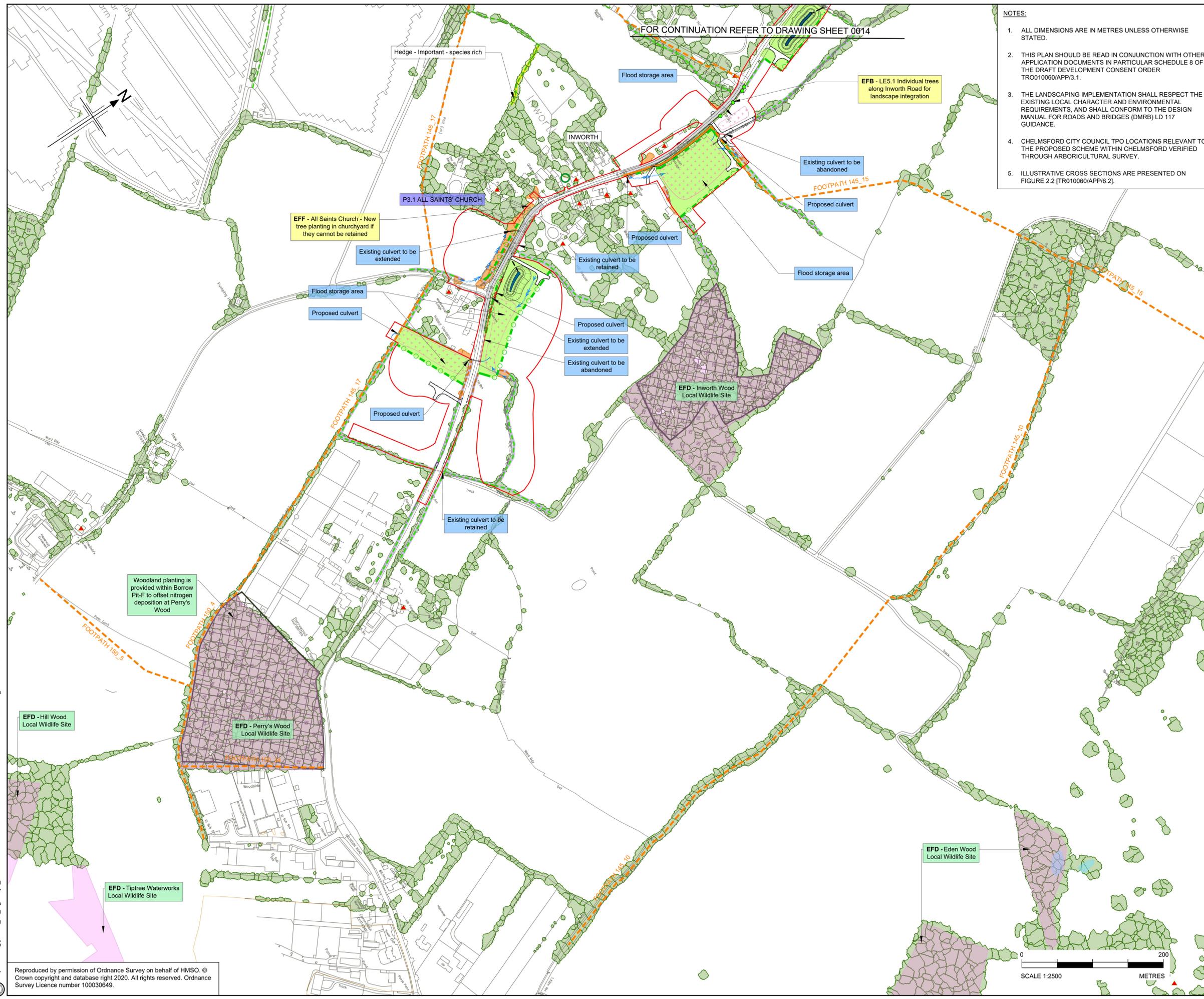
Drawing number: HE551497 - JAC - LDC - SCHW - DR - L - 0120

Originator: JAC
Volume: LDC
Location: SCHW
Type: DR
Role: L
Number: 0120



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FOR CONTINUATION REFER TO DRAWING SHEET 0014

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER APPLICATION DOCUMENTS IN PARTICULAR SCHEDULE 8 OF THE DRAFT DEVELOPMENT CONSENT ORDER TR010060/APP/3.1.
 - THE LANDSCAPING IMPLEMENTATION SHALL RESPECT THE EXISTING LOCAL CHARACTER AND ENVIRONMENTAL REQUIREMENTS, AND SHALL CONFORM TO THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) LD 117 GUIDANCE.
 - CHELMSFORD CITY COUNCIL TPO LOCATIONS RELEVANT TO THE PROPOSED SCHEME WITHIN CHELMSFORD VERIFIED THROUGH ARBORICULTURAL SURVEY.
 - ILLUSTRATIVE CROSS SECTIONS ARE PRESENTED ON FIGURE 2.2 [TR010060/APP/6.2].

FIGURE 2.1

BOUNDARIES

- Order Limits

EXISTING CONTEXT

- Open water
- Indicative canopies of trees over 3m (National Tree Map TM © Bluesky International Ltd); Retained (green); At Risk of Removal (amber)
- Ancient woodland
- Existing hedges: Retained (green); At Risk of Removal (amber); Important hedgerow (bright yellow); Potentially important hedgerow (purple)
- Verified ancient (VA), notable (VN) and veteran (VV) trees by the Woodland Trust
- Potential ancient (PA), notable (PN) and veteran (PV) tree (individual or tree group)
- Trees protected by Tree Preservation Order (group or individual tree)
- Local nature reserve - P3.2 EFD
- Conservation areas - P3.2
- Listed buildings - P3.1
- Registered parks and gardens - P3.2
- Scheduled monument
- Existing public right of way / walking, cycling and horse-riding user route
- Existing public right of way / walking, cycling and horse-riding user route - stopped up

PROPOSED DRAINAGE MITIGATION

- DAP: Drainage attenuation and water treatment pond - outfall designed to environmental best practice
- Underground storage units
- Floodplain with scheme fluvial flood extent 1% (1 in 100) annual exceedance probability
- Flood mitigation areas

PROPOSED ENVIRONMENTAL MITIGATION

- Woodland planting of trees and shrubs - LE2.1/ LE2.2/ LE2.4
- Wet woodland - LE6.1
- Tall screen planting of trees and shrubs to elevate flight path of bats & barn owls - LE2.4
- Individual trees - LE5.1/ LE3.1
- Hedge with intermittent trees for ecological connectivity - LE4.4
- Grassland - LE1.3/ LE1.6
- Grassland with intermittent trees and shrubs - LE2.5
- Ecology mitigation area (advanced/post construction) - E3.2
- Ecological pond (indicative symbol) - LE6.1
- Noise barrier location / Acoustic barrier - E1.2
- New/realigned public right of way / walking, cycling and horse-riding user route - LE7
- Proposed borrow pit

ENVIRONMENTAL FUNCTIONS KEY

- Landscape
- Ecology
- Acoustics
- Water
- Heritage
- Contaminated Land

*For main legend refer to sheet 22 (HE551497-JAC-LDC-SCHW-DR-L-0222)

KEY PLAN
SCALE N.T.S.

P01	04/04/23	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
P02	03/04/23	DEADLINE 4 UPDATE											DR	HA	HB	RM	
P03	04/04/23	DCO CHANGE											DR	HA	HB	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/6.2

Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENVIRONMENTAL STATEMENT ENVIRONMENTAL MASTERPLAN**

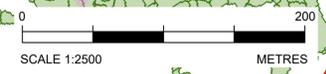
SHEET 20 OF 21

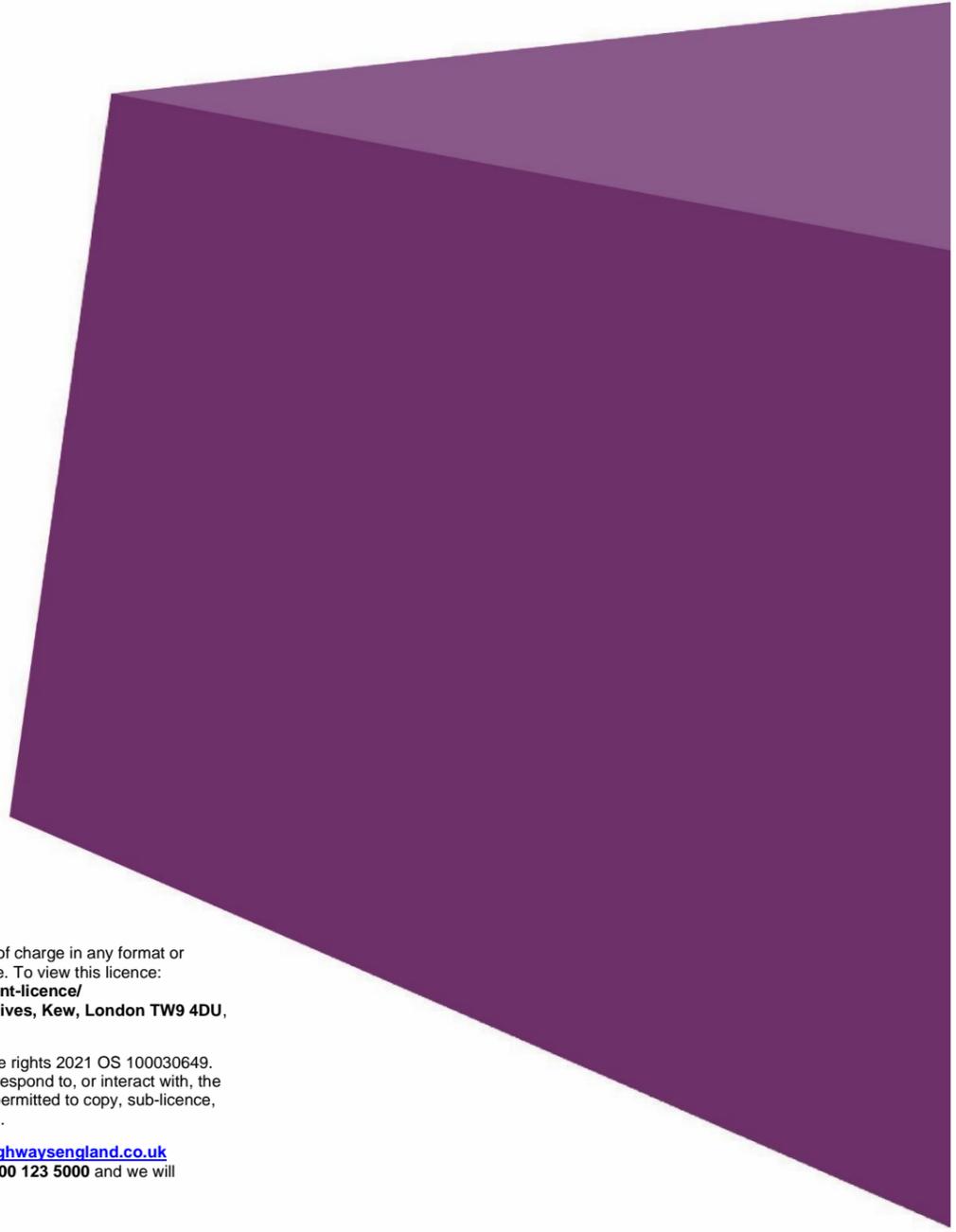
Regulation	REGULATION 113 & 114		
Purpose of issue	DCO EXAM		
State Code	Statutory Procedures and Powers		
Project Stage	PCF 4	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P03	
Drawing number	PIN	Originator	Volume
HE551497	JAC	LDC	
SCHW		-DR-	L-0220

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