

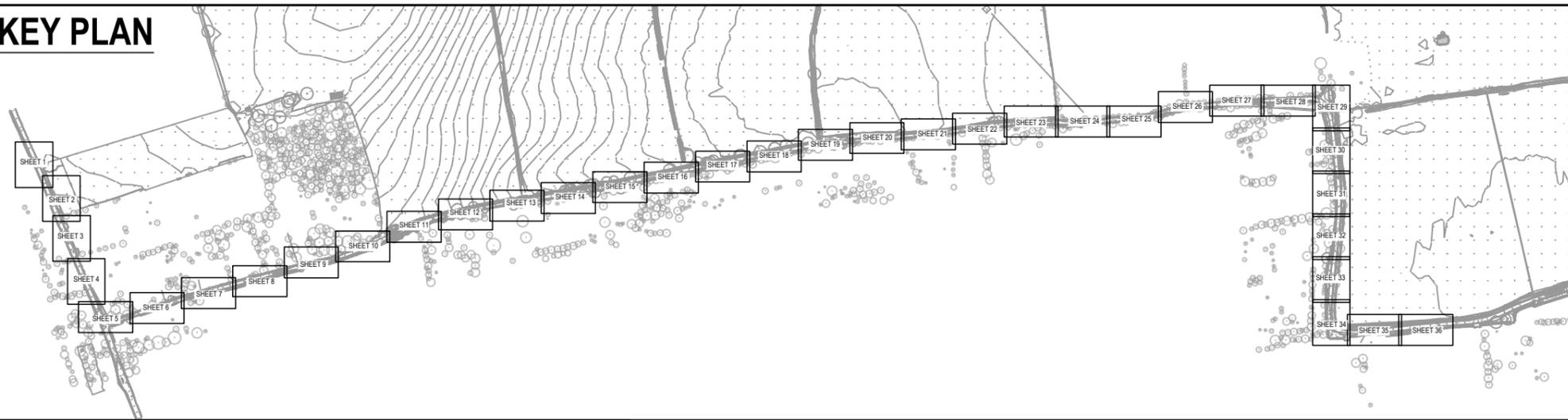
East Havering Data Centre Campus LDO Draft Design Code

Appendix 5:

Highway Drawings

Appendix 5a: Fen Lane and Ockendon Road Drawings

KEY PLAN



GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

TO BE READ IN CONJUNCTION WITH:

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havering_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026

DESIGN RISKS AND ASSUMPTIONS

THE FOLLOWING DESIGN NOTES AND ASSUMPTIONS HAVE BEEN MADE IN THE PRODUCTION OF THIS DRAWING:

1. TO BE COORDINATED WITH ARBORCULTURALIST.
2. DESIGN SUBJECT TO CONFIRMATION FROM THE LOCAL PLANNING AUTHORITY
3. DESIGN SUBJECT TO ROAD SAFETY AUDIT.

KEY

	DIAGRAM 1065 HEIGHT: 4.3m COLOUR: WHITE
	DIAGRAM 1022 HEIGHT: 2.8m COLOUR: WHITE
	DIAGRAM 1001: JUNCTION STOP LINE WIDTH: 300mm COLOUR: WHITE
	DIAGRAM 1009A: ENTRANCE LINE WIDTH: 100mm LINE: 600mm GAP: 300mm COLOUR: WHITE
	DIAGRAM 1012.1: CARRIAGEWAY EDGE WIDTH: 100mm COLOUR: WHITE
	DIAGRAM 1008: CARRIAGEWAY CENTERLINE WIDTH: 150mm LINE: 2000mm GAP: 4000mm COLOUR: WHITE
	DIAGRAM 1004: JUNCTION CENTRELINE WIDTH: 150mm LINE: 4000mm GAP: 2000mm COLOUR: WHITE
	125x150mm PCC BULLNOSED (BN) KERB (0mm UPSTAND).
	CARRIAGEWAY WIDENING FULL DEPTH CARRIAGEWAY CONSTRUCTION.
	EXISTING CARRIAGEWAY RE-SURFACING WEARING COURSE REPLACEMENT.
	PROPOSED FOOTPATH FULL DEPTH FOOTPATH CONSTRUCTION.
	PROPOSED SOFT LANDSCAPING EMBANKMENT
	LDO BOUNDARY

P02	KEY PLAN AND REFERENCES UPDATED	23.02.26	HWH	TH
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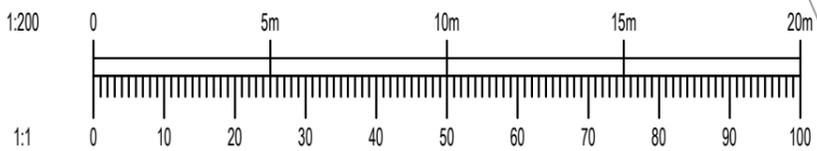
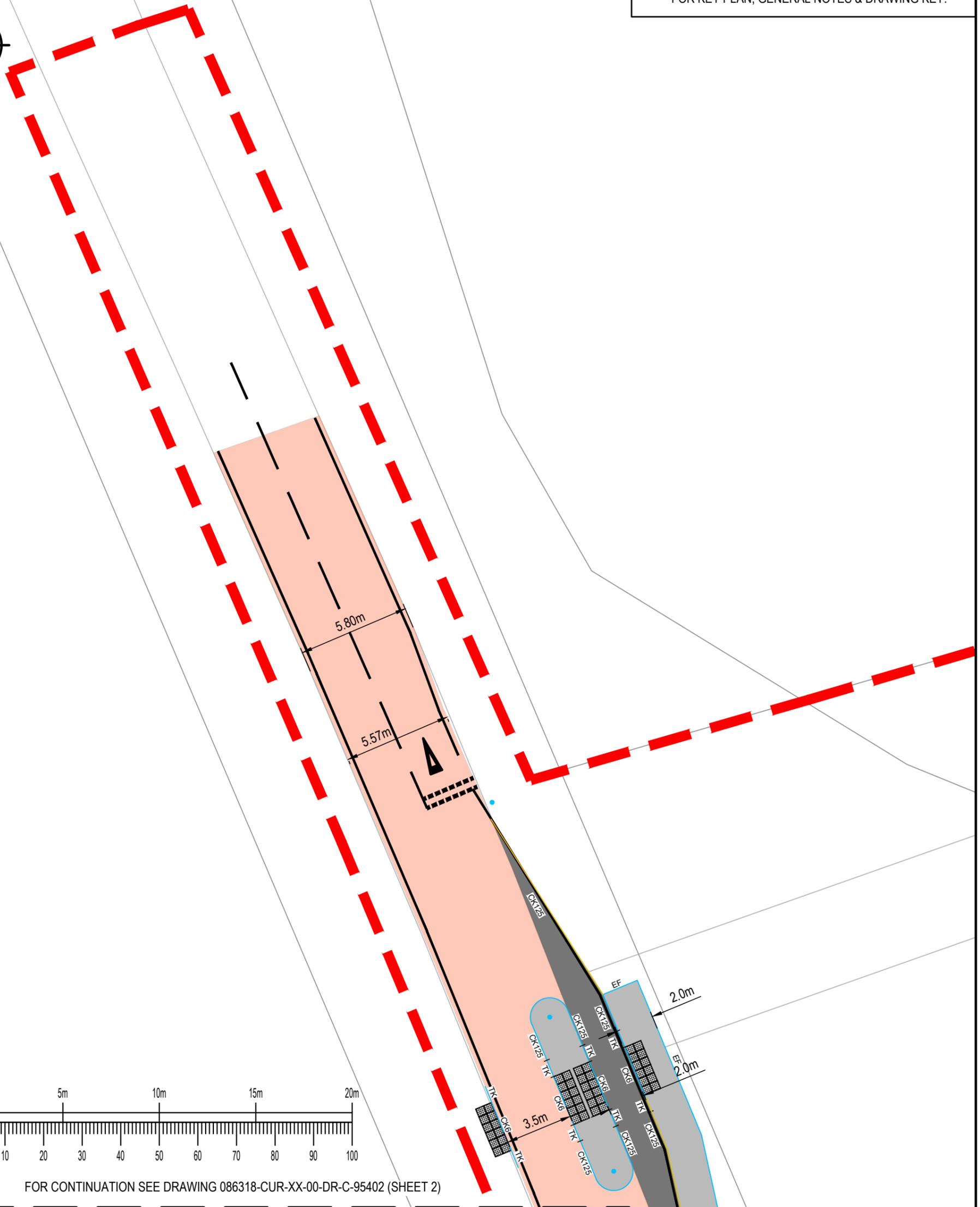
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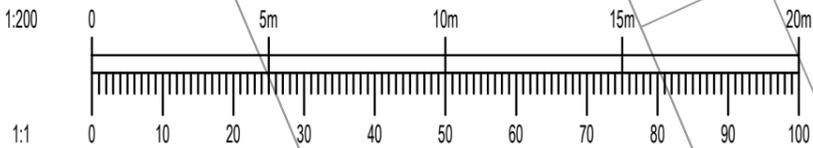
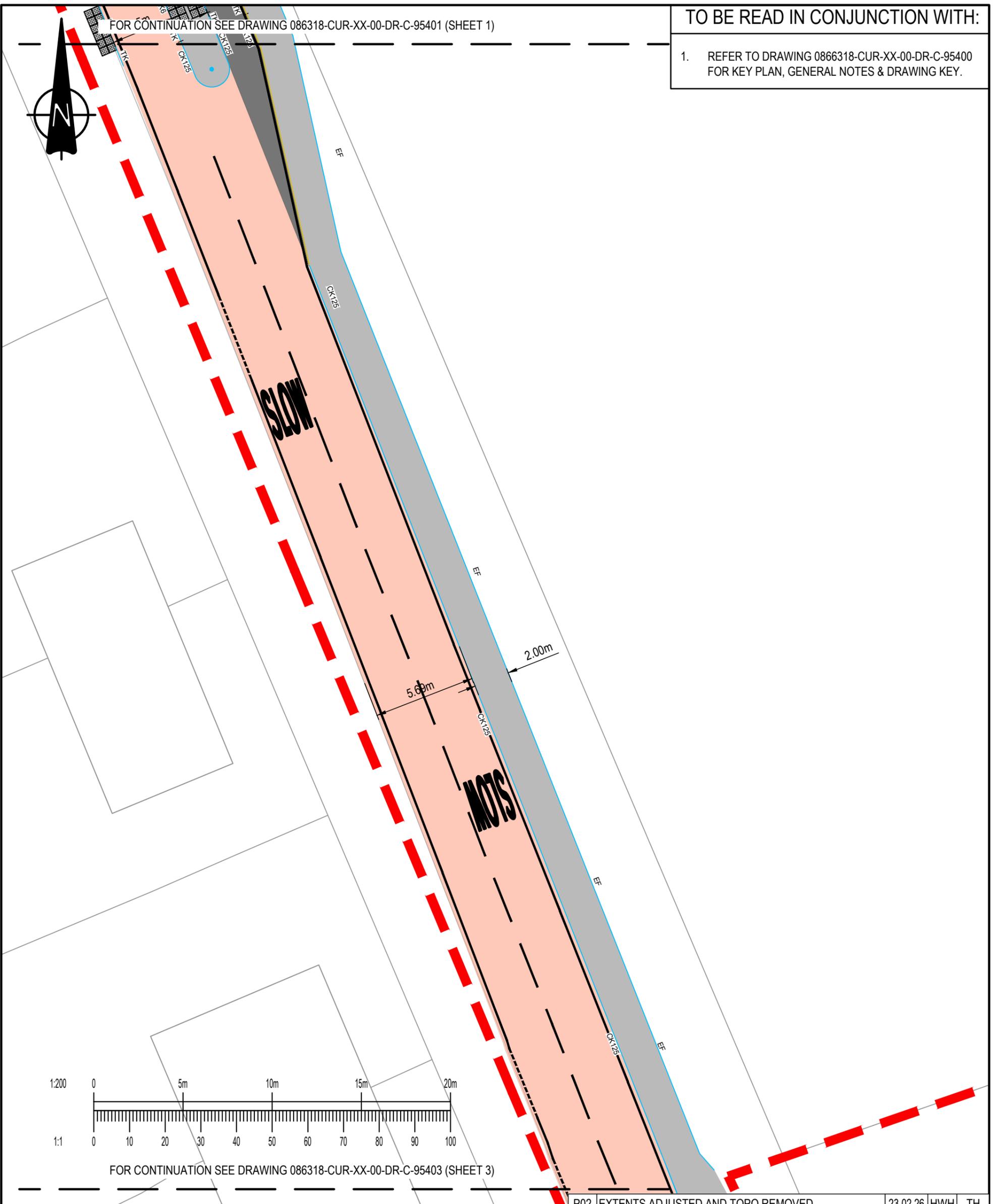
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VEHICLE CROSSOVER

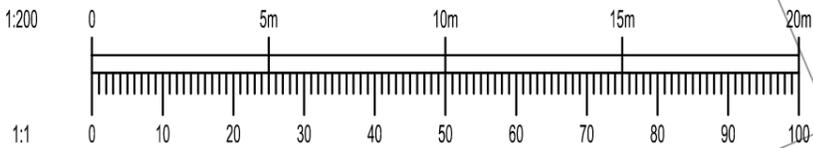
VEHICLE CROSSOVER

SLOW

NOTS

5.78m

5.9m



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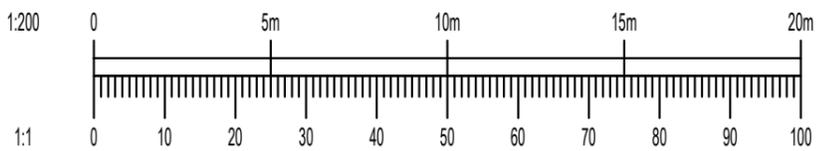
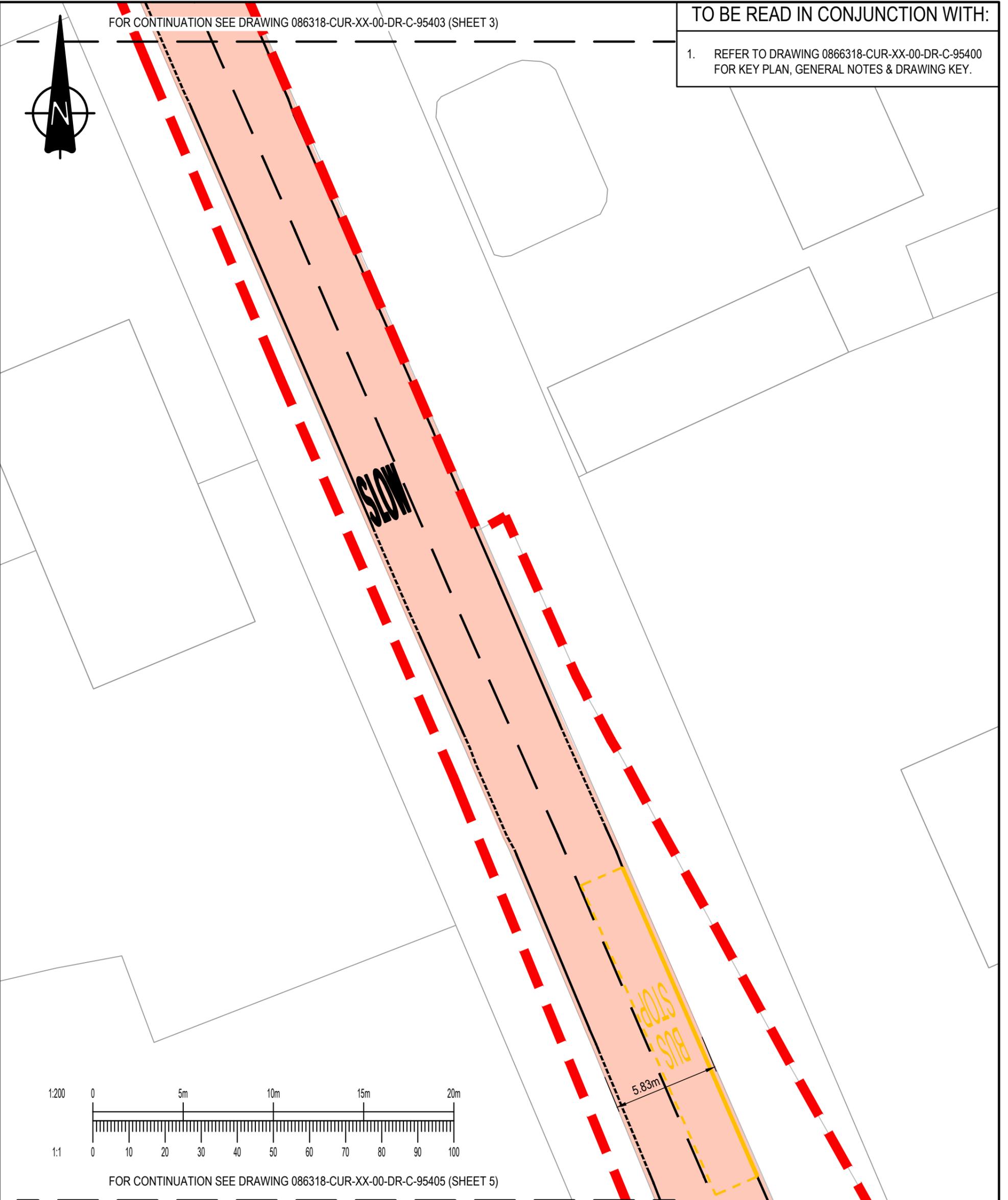
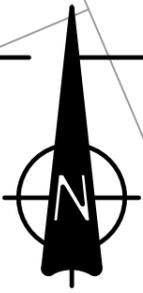
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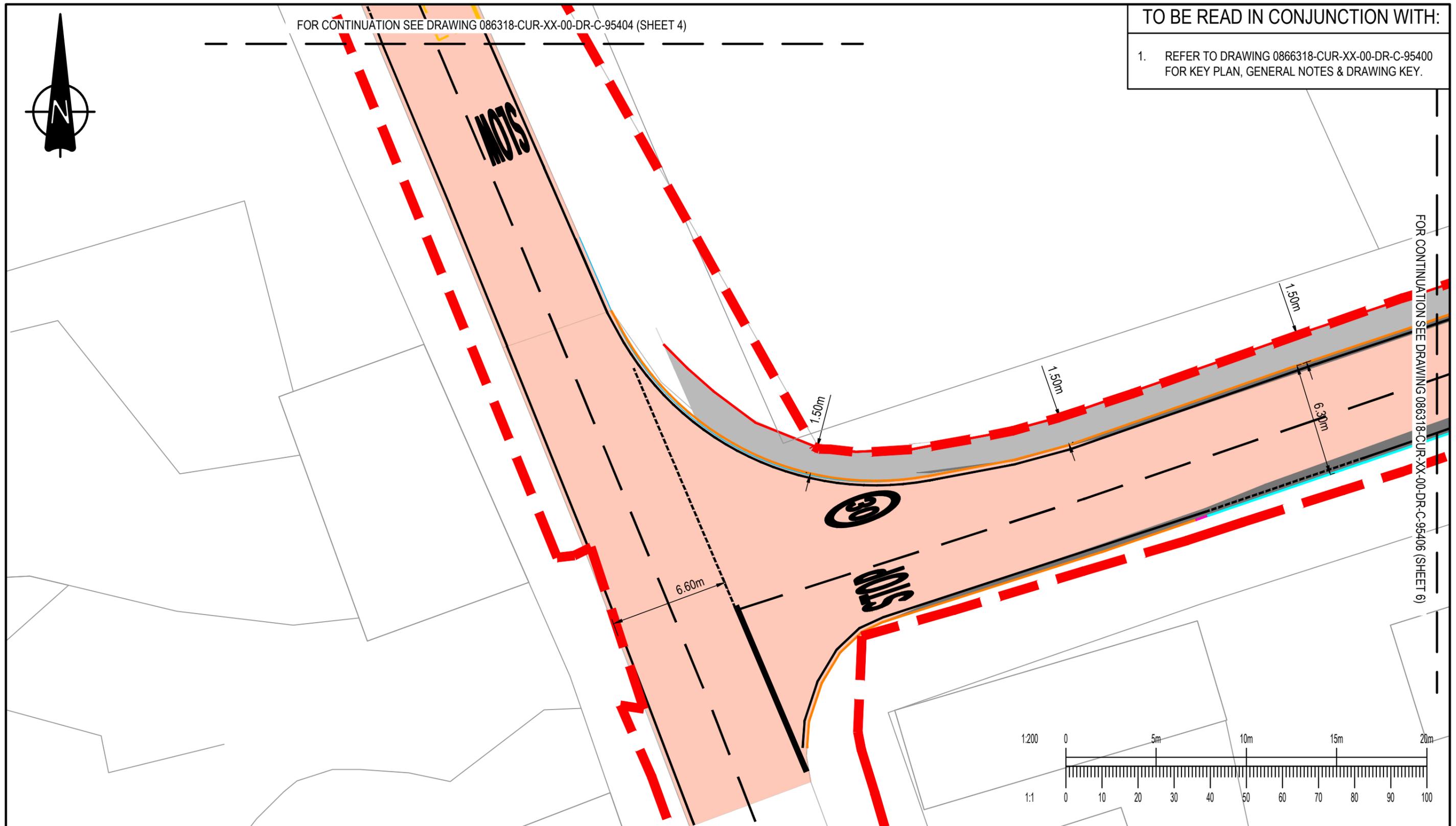
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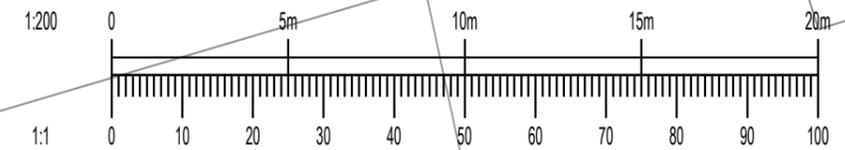
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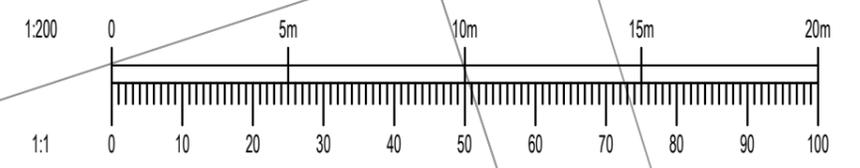
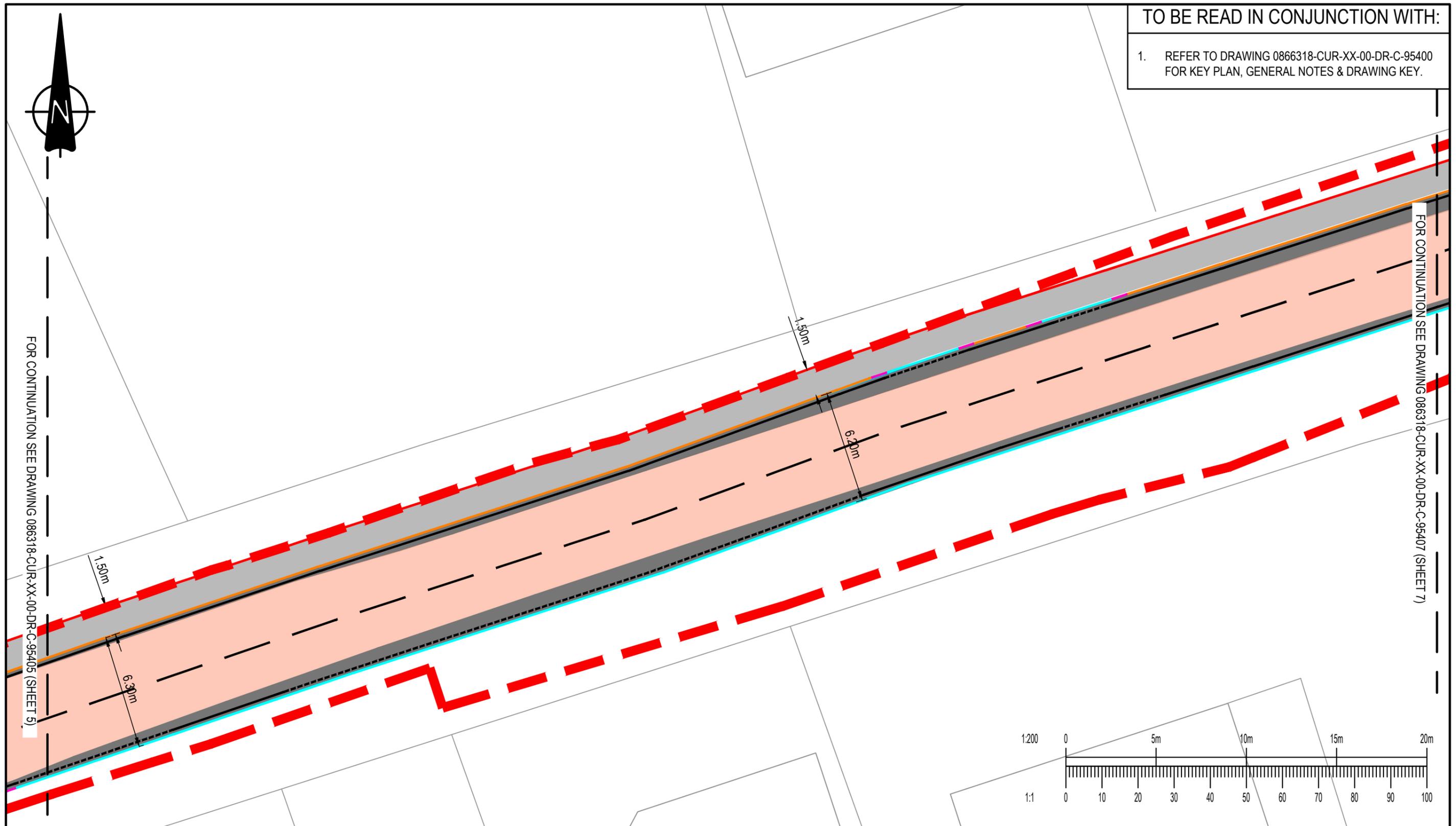
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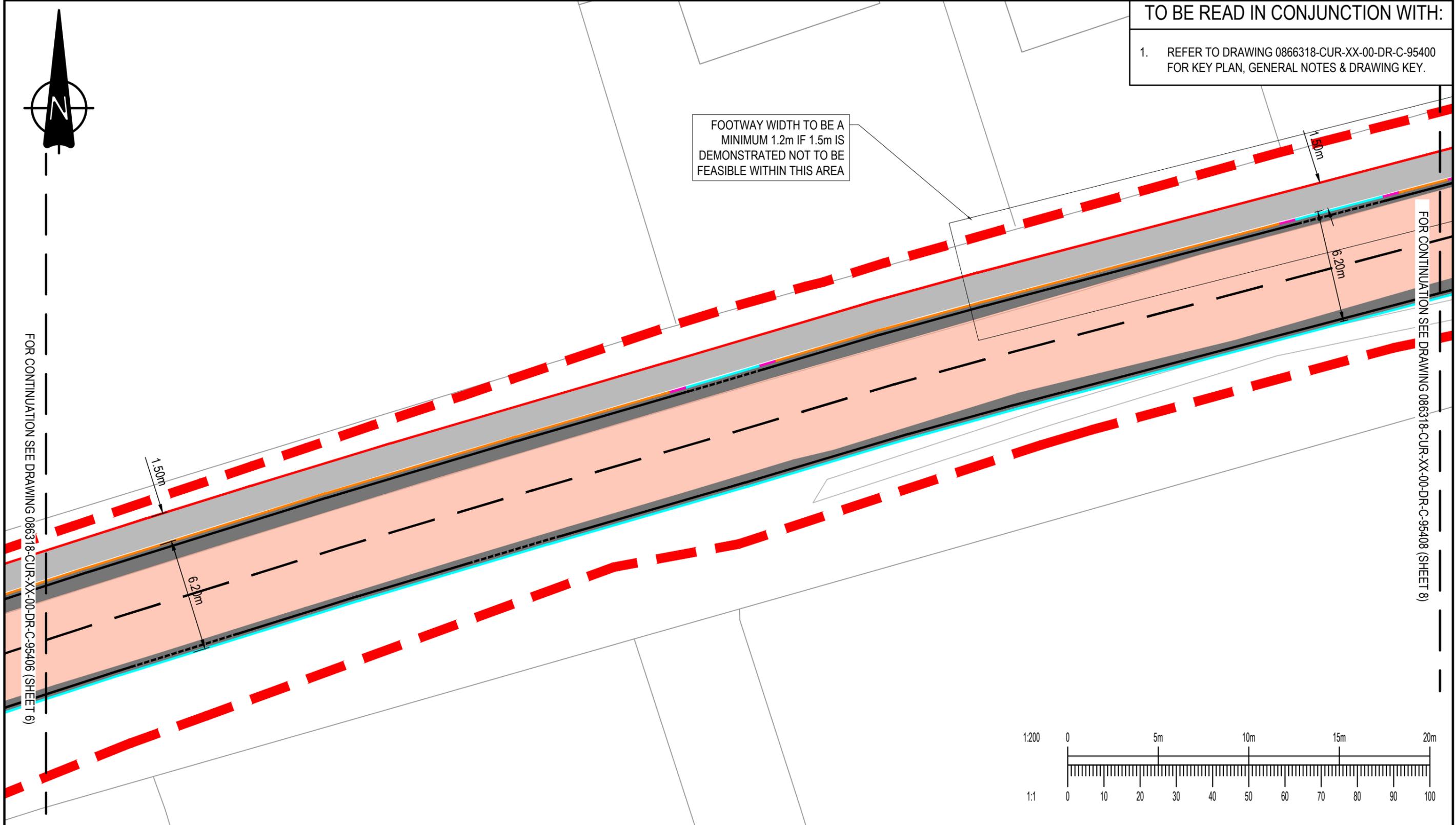
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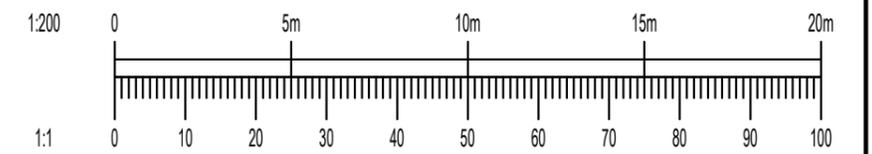
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FOOTWAY WIDTH TO BE A MINIMUM 1.2m IF 1.5m IS DEMONSTRATED NOT TO BE FEASIBLE WITHIN THIS AREA



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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95408 (SHEET 8)



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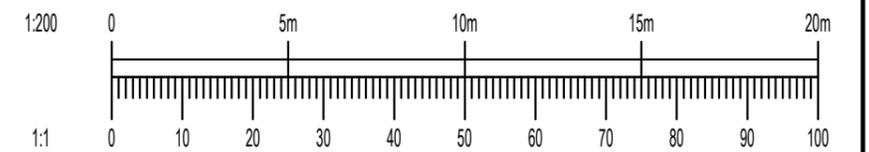
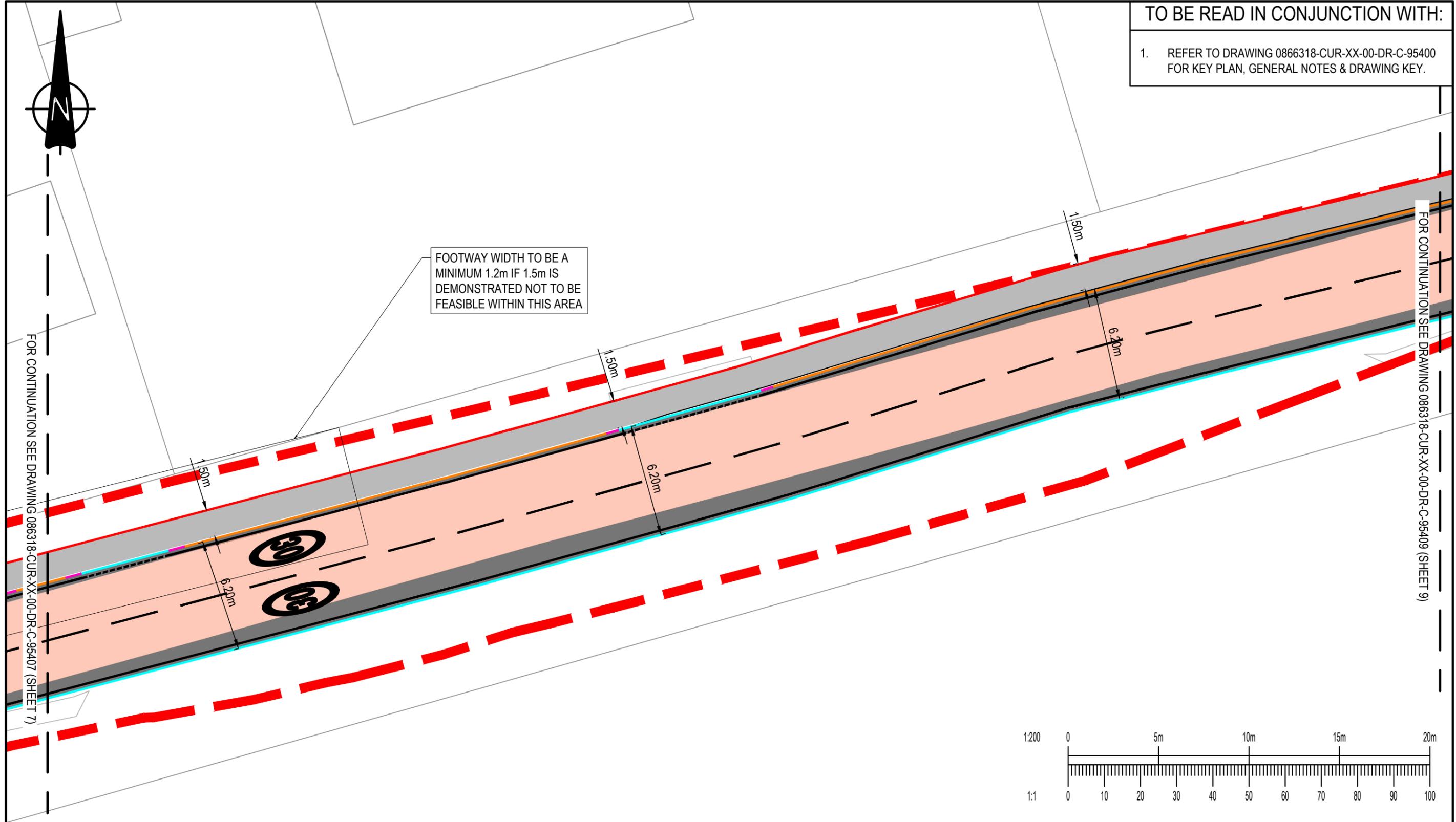
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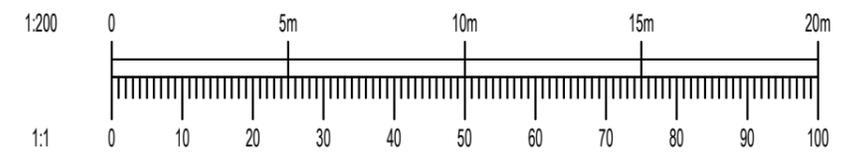
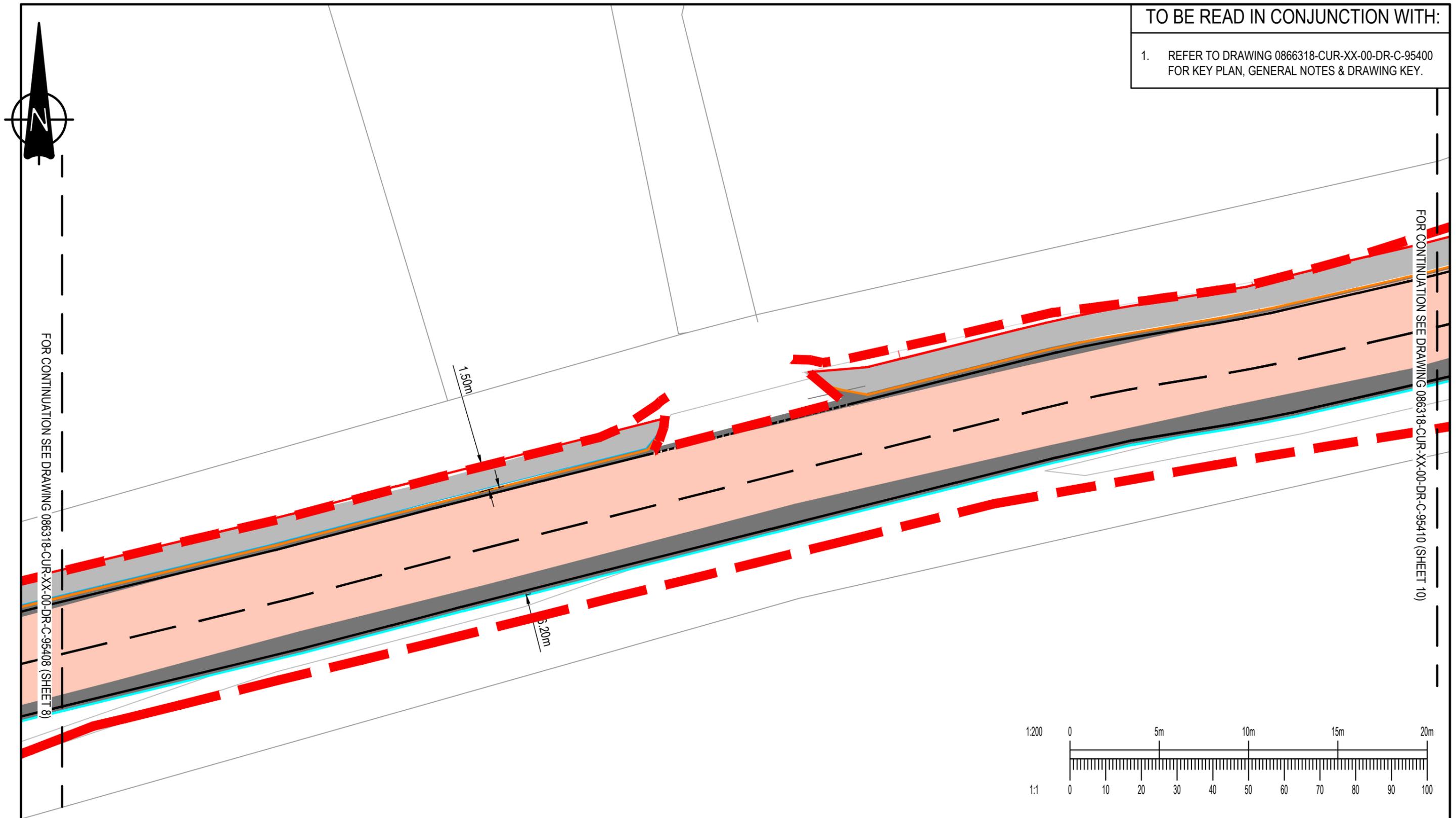
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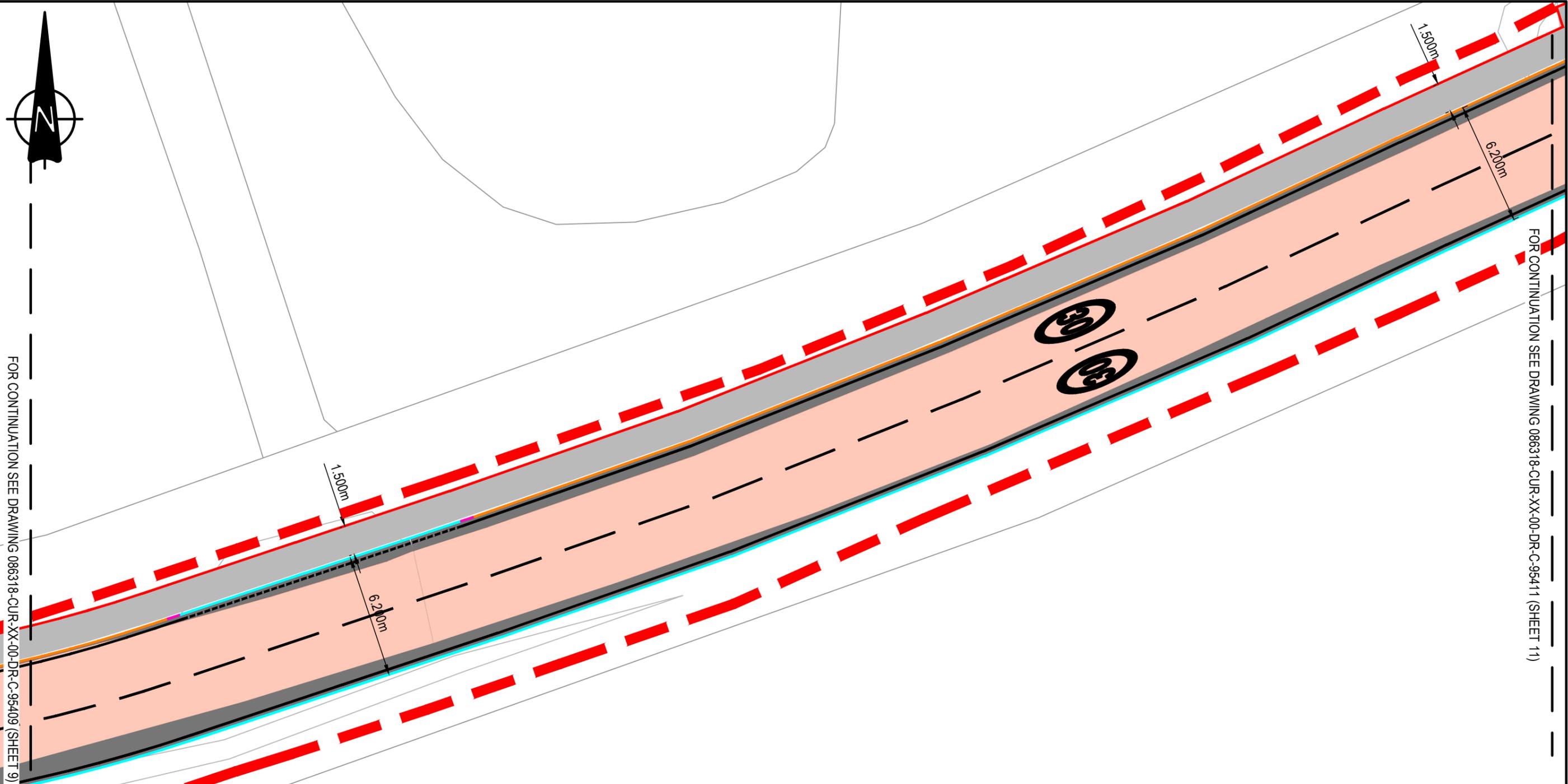
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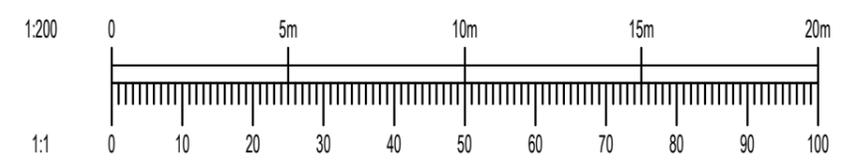


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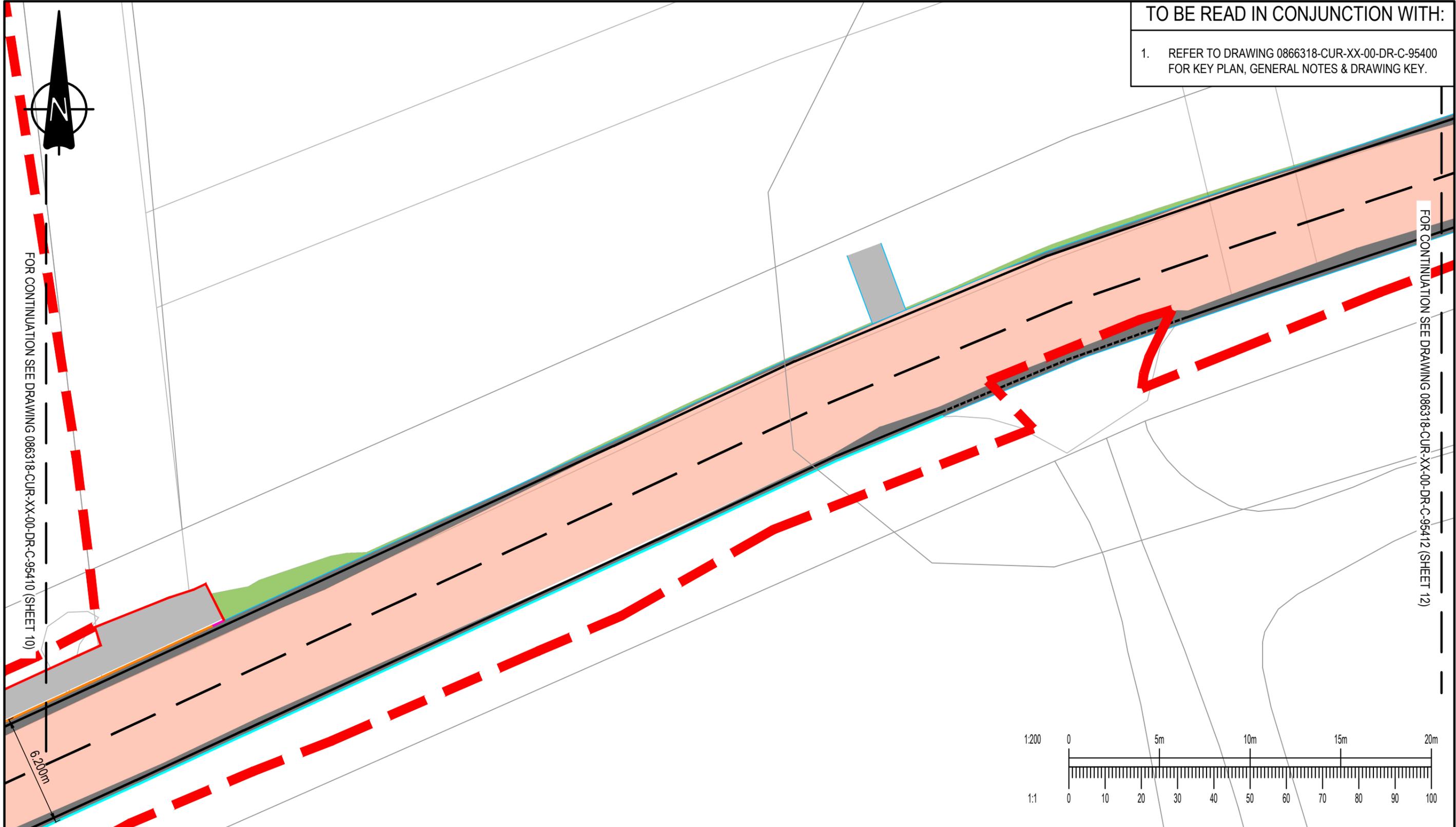
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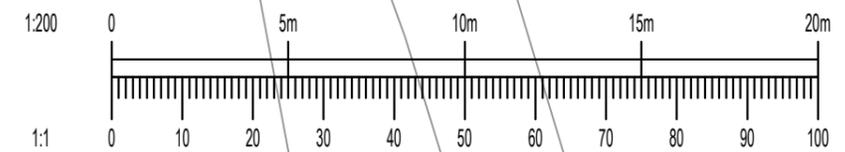
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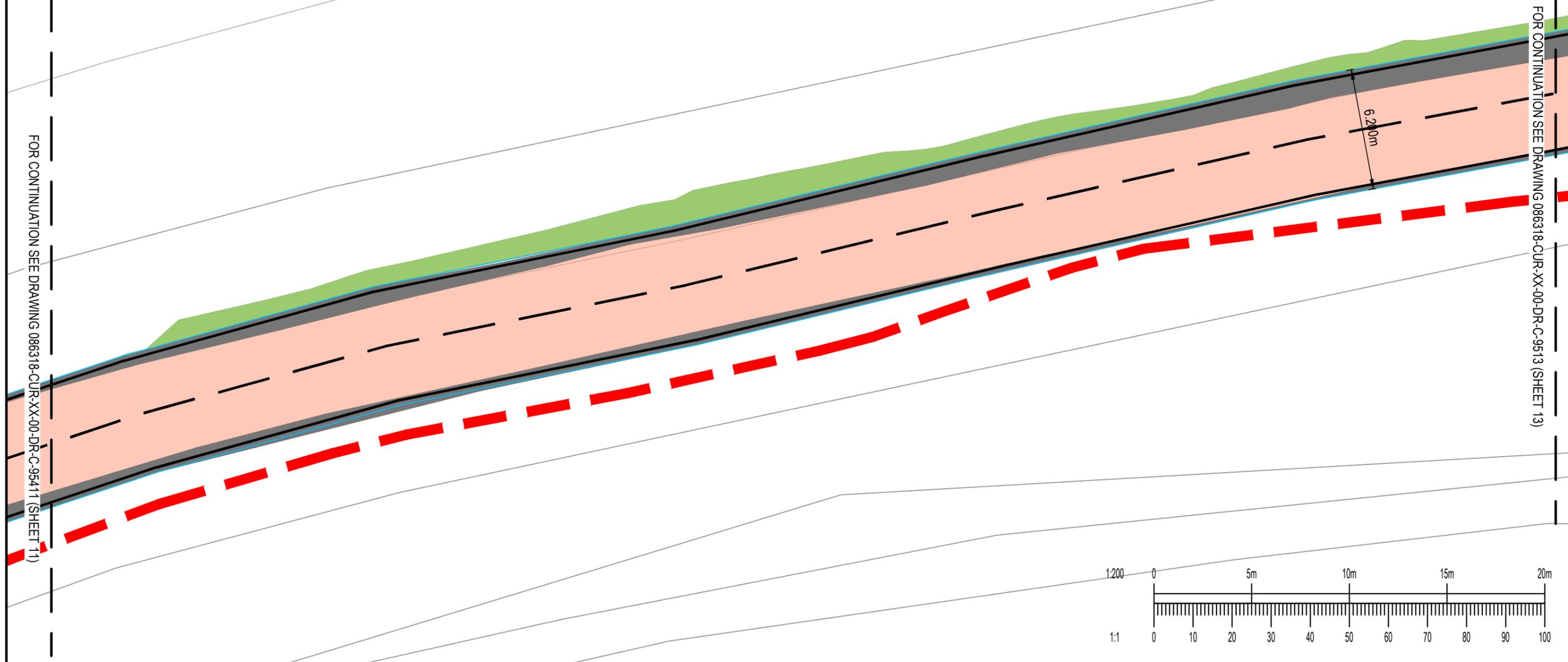
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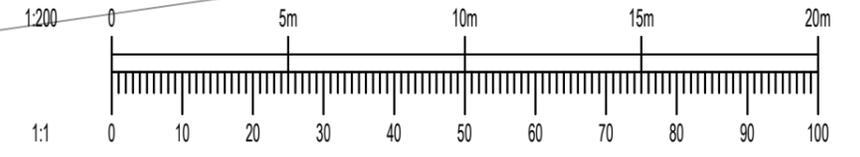
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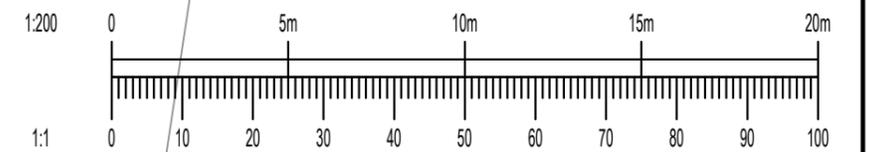
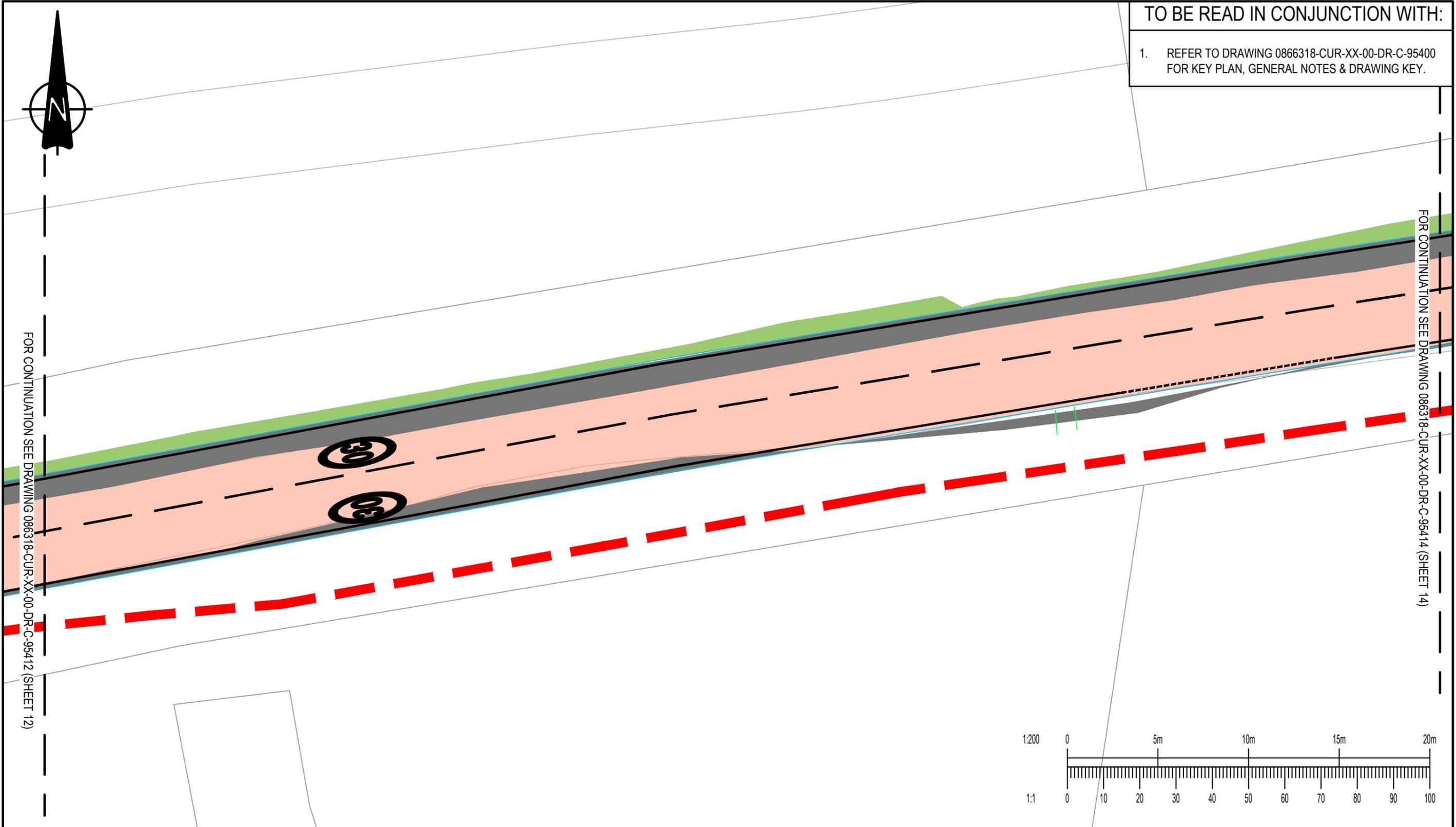
Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 12 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95412 (SHEET 12)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95414 (SHEET 14)



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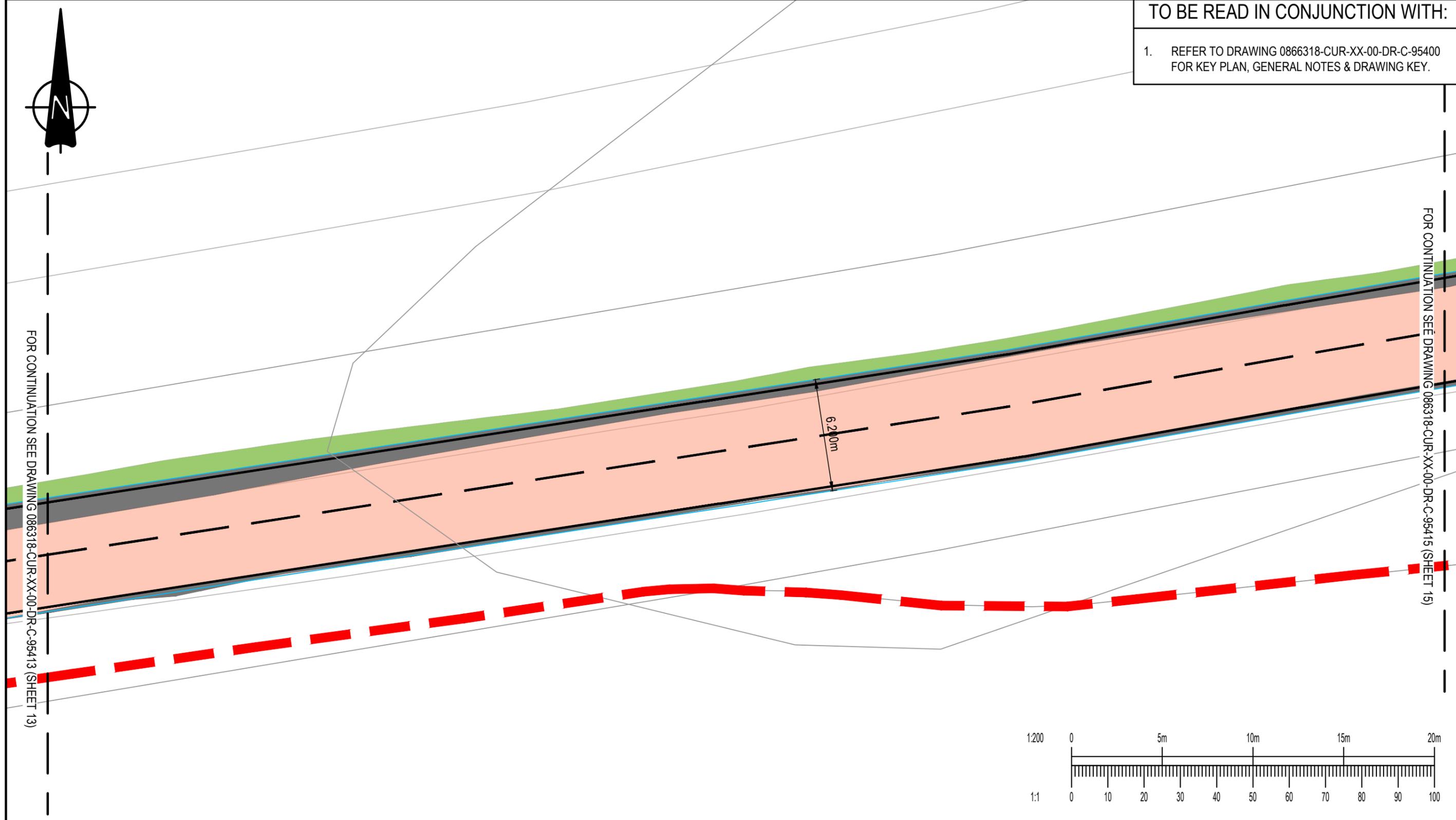
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 13 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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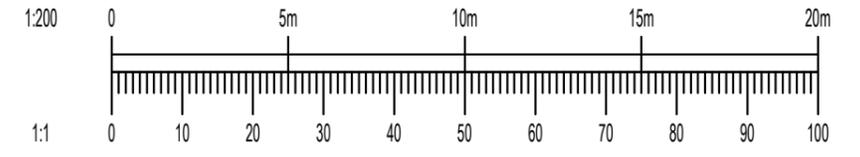
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95413 (SHEET 13)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95415 (SHEET 15)

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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 14 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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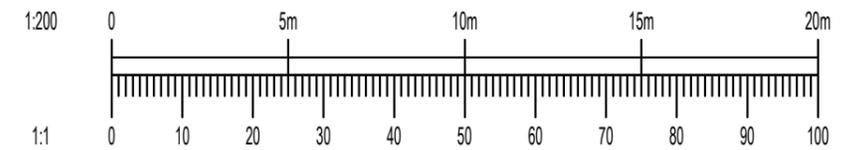
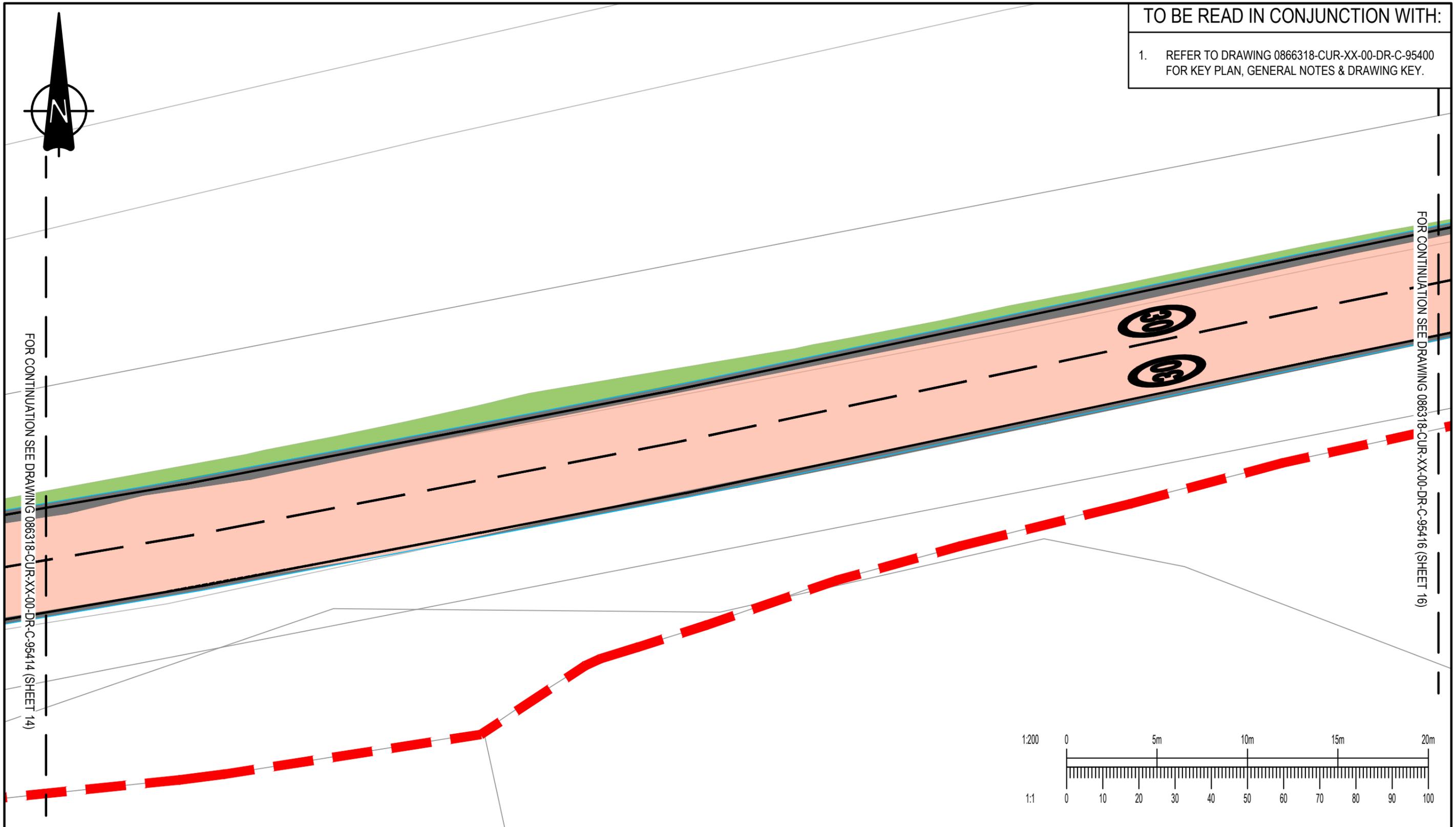
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95416 (SHEET 16)



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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 15 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
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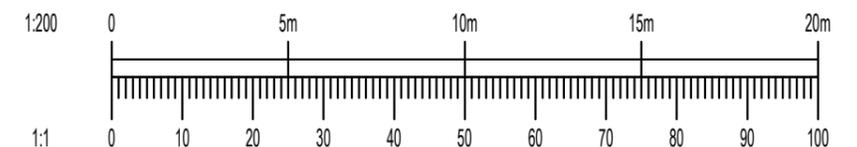
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95415 (SHEET 15)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95417 (SHEET 17)



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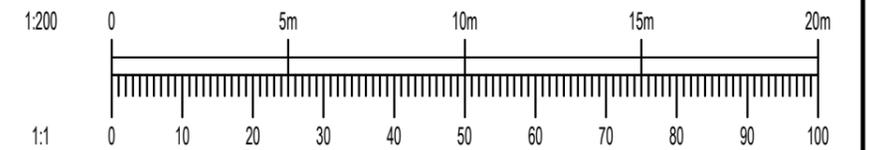
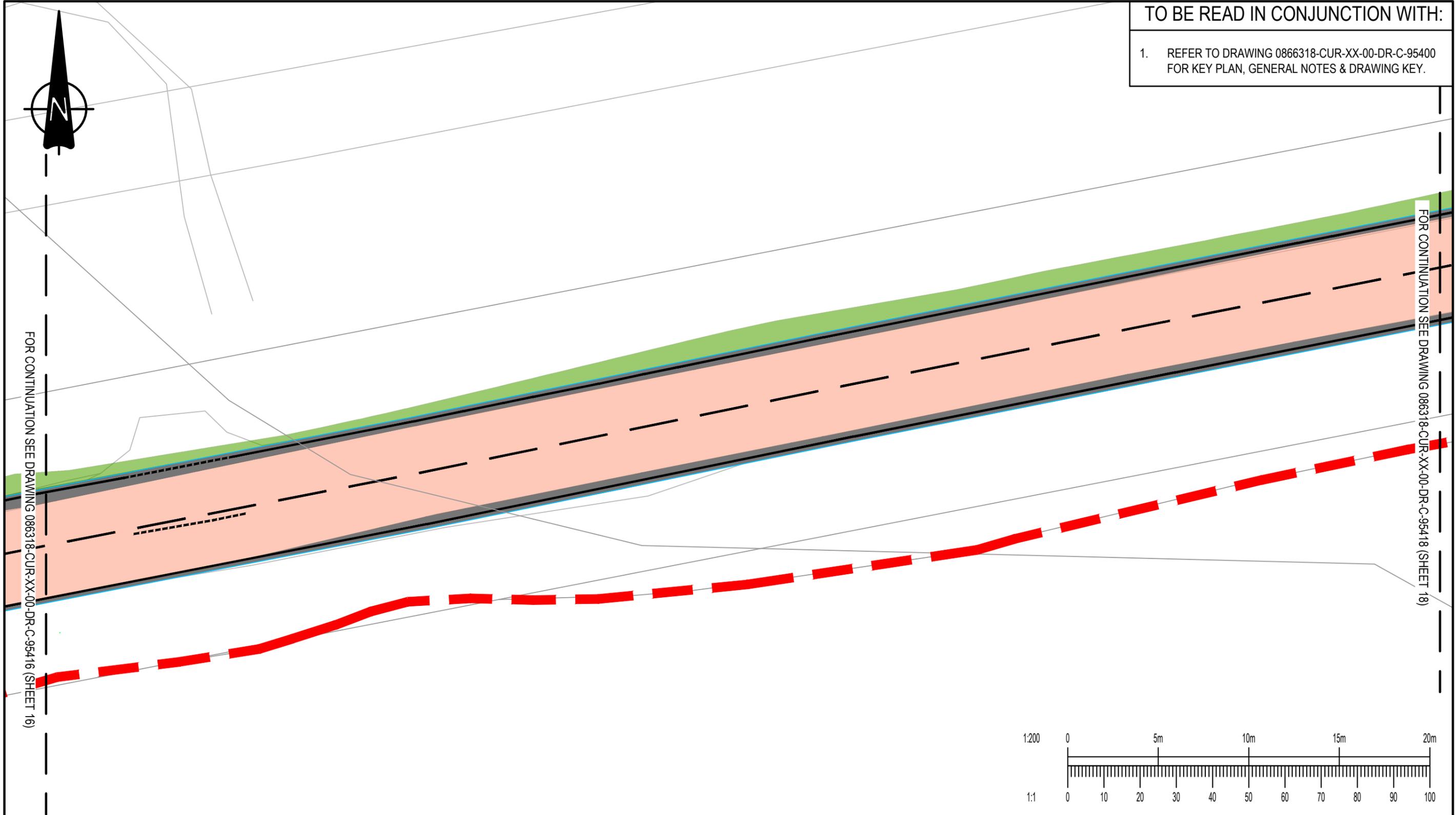
Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 16 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95416 (SHEET 16)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95418 (SHEET 18)



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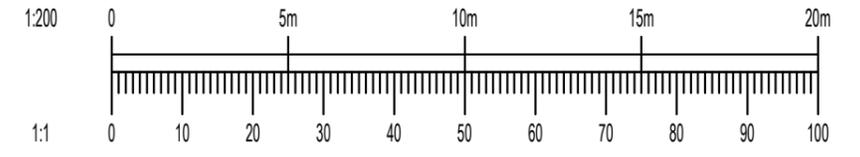
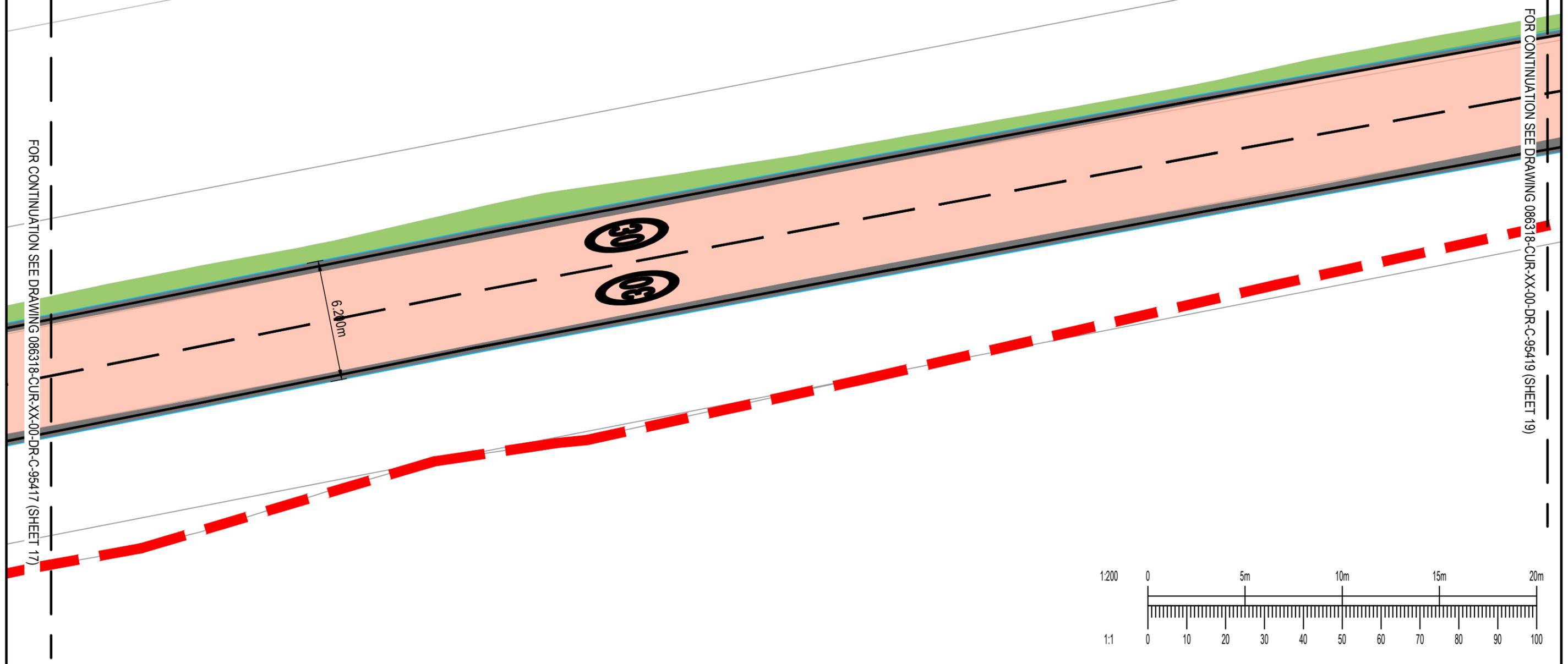
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 17 of 34)		Drawn By	NMH
			Checked By	TH
			Designed By	NMH
			Date	17.02.26
			Scales @ A3	1:200
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 18 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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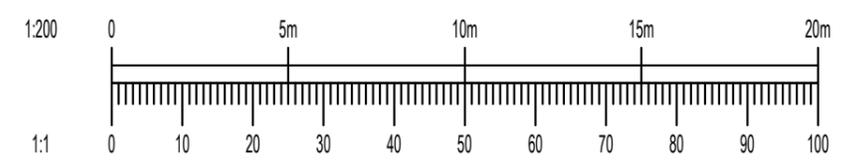
MAIN ACCESS

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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95418 (SHEET 18)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-9520 (SHEET 20)



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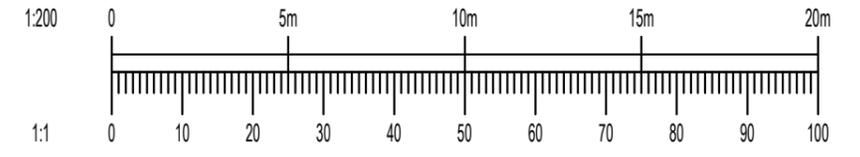
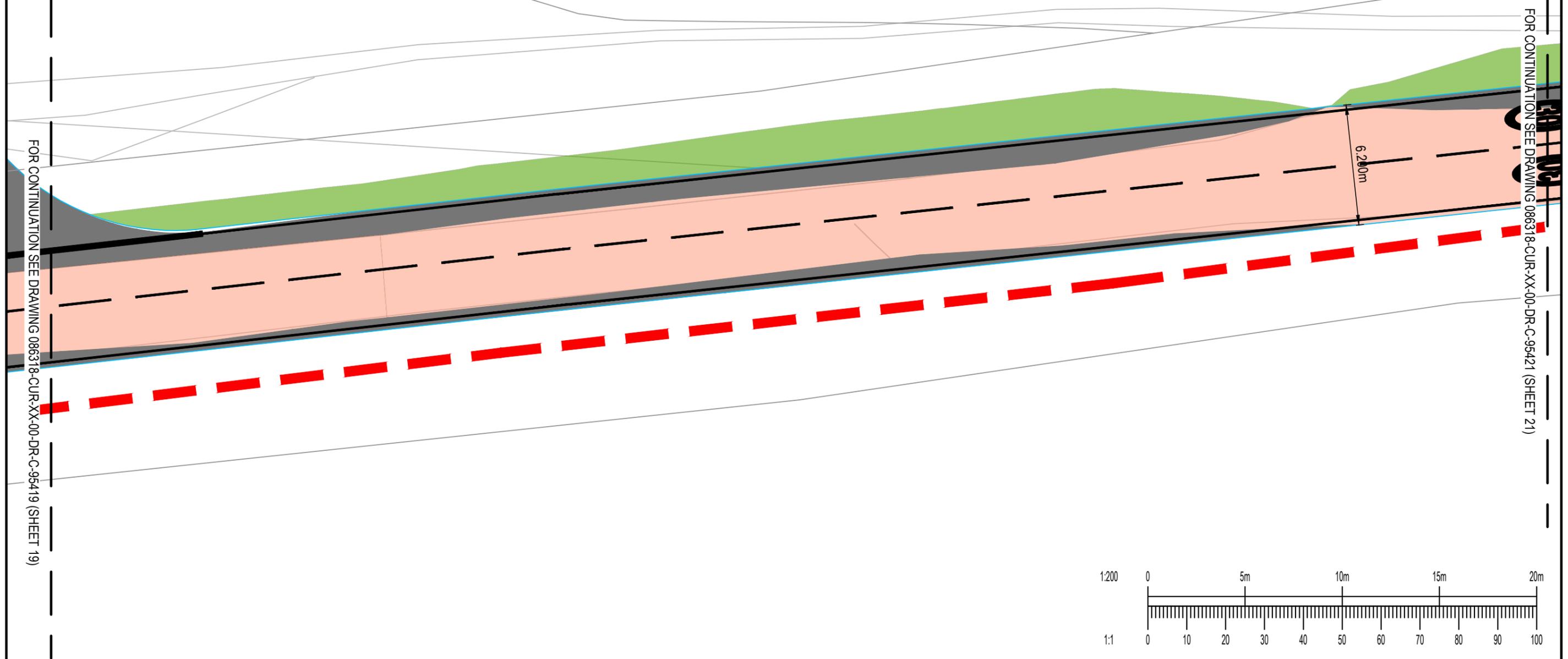
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 19 of 36)		Drawn By	NMH
			Checked By	TH
			Designed By	NMH
			Date	17.02.26
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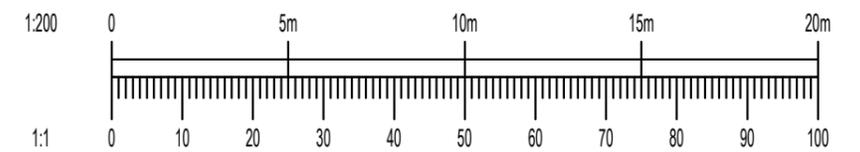
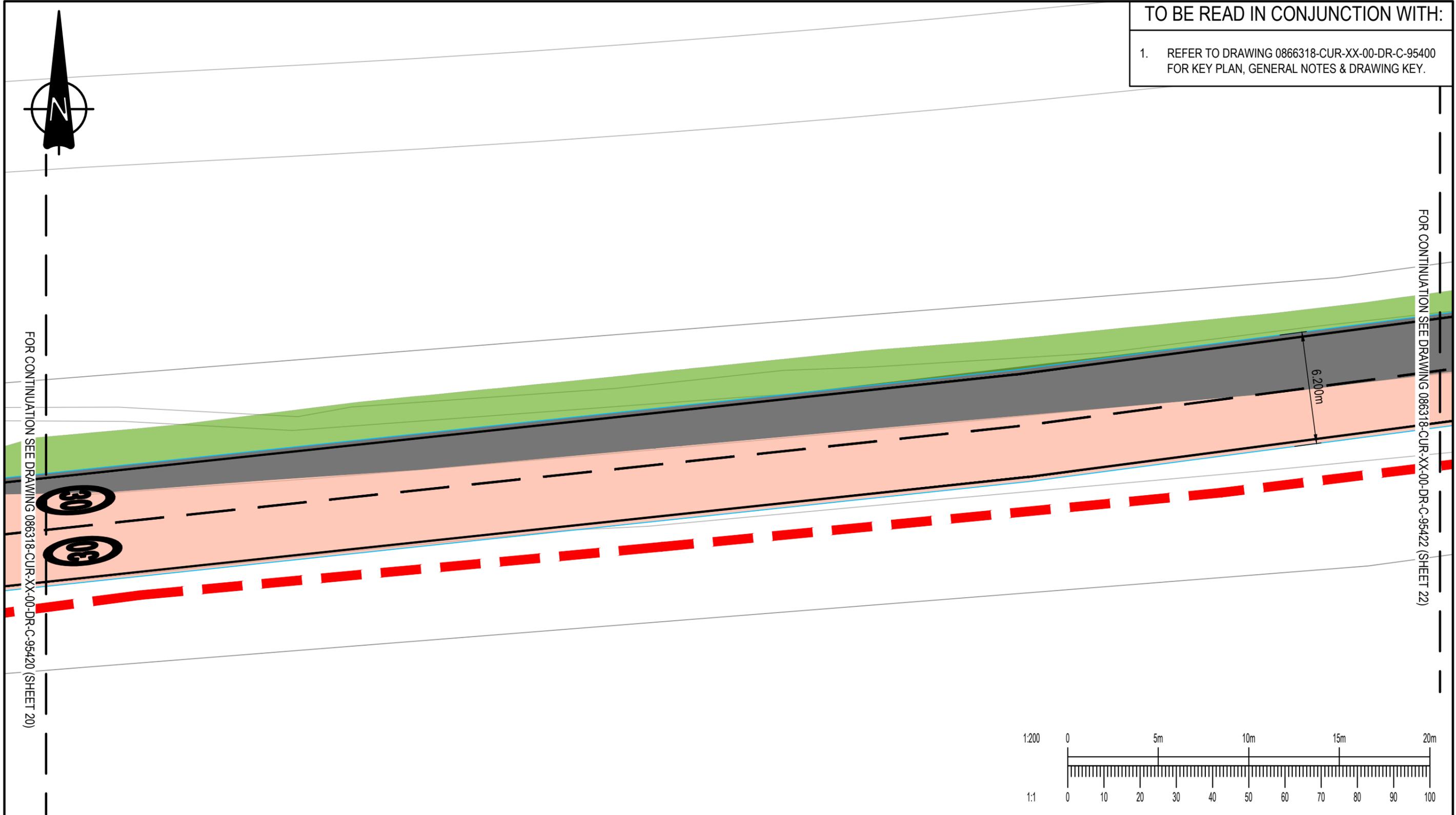
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 20 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95422 (SHEET 22)



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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 21 of 36)		Drawn By	NMH
			Checked By	TH
			Designed By	NMH
			Date	17.02.26
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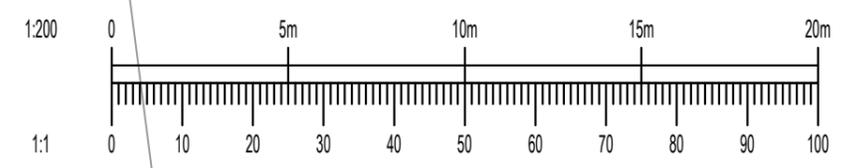
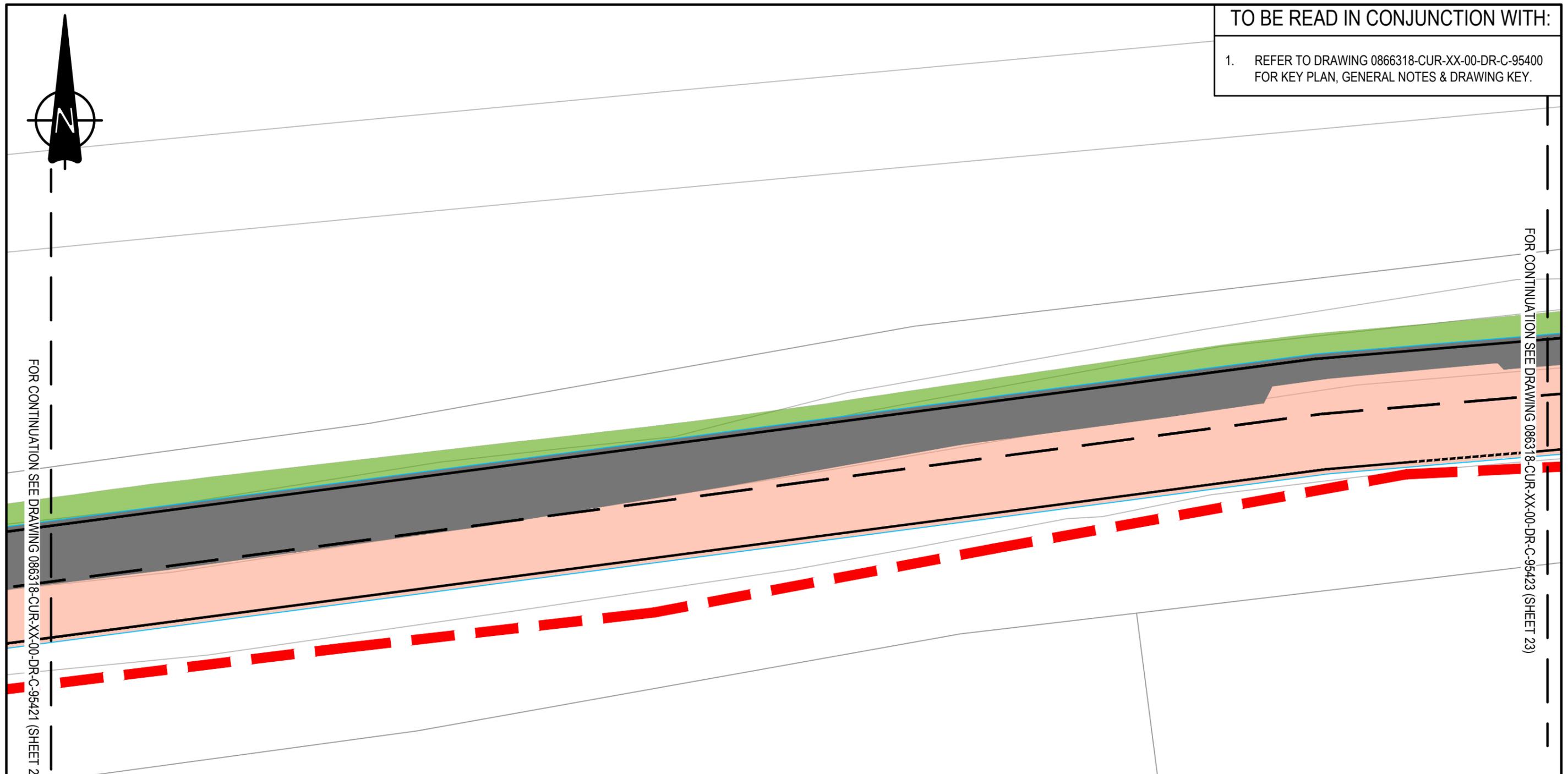


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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95423 (SHEET 23)



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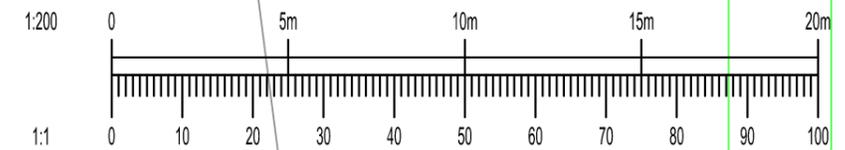
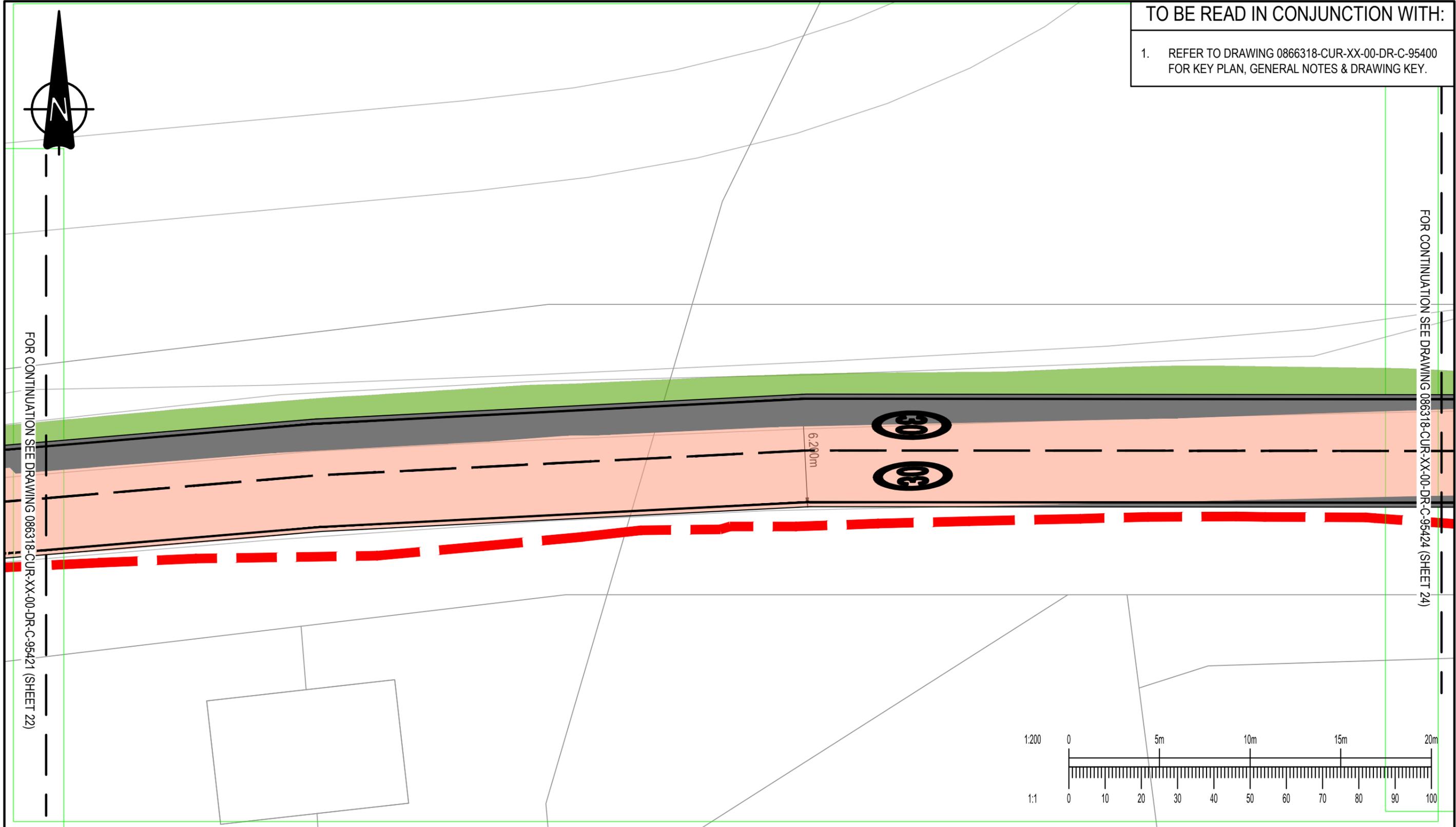
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 22 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95424 (SHEET 24)



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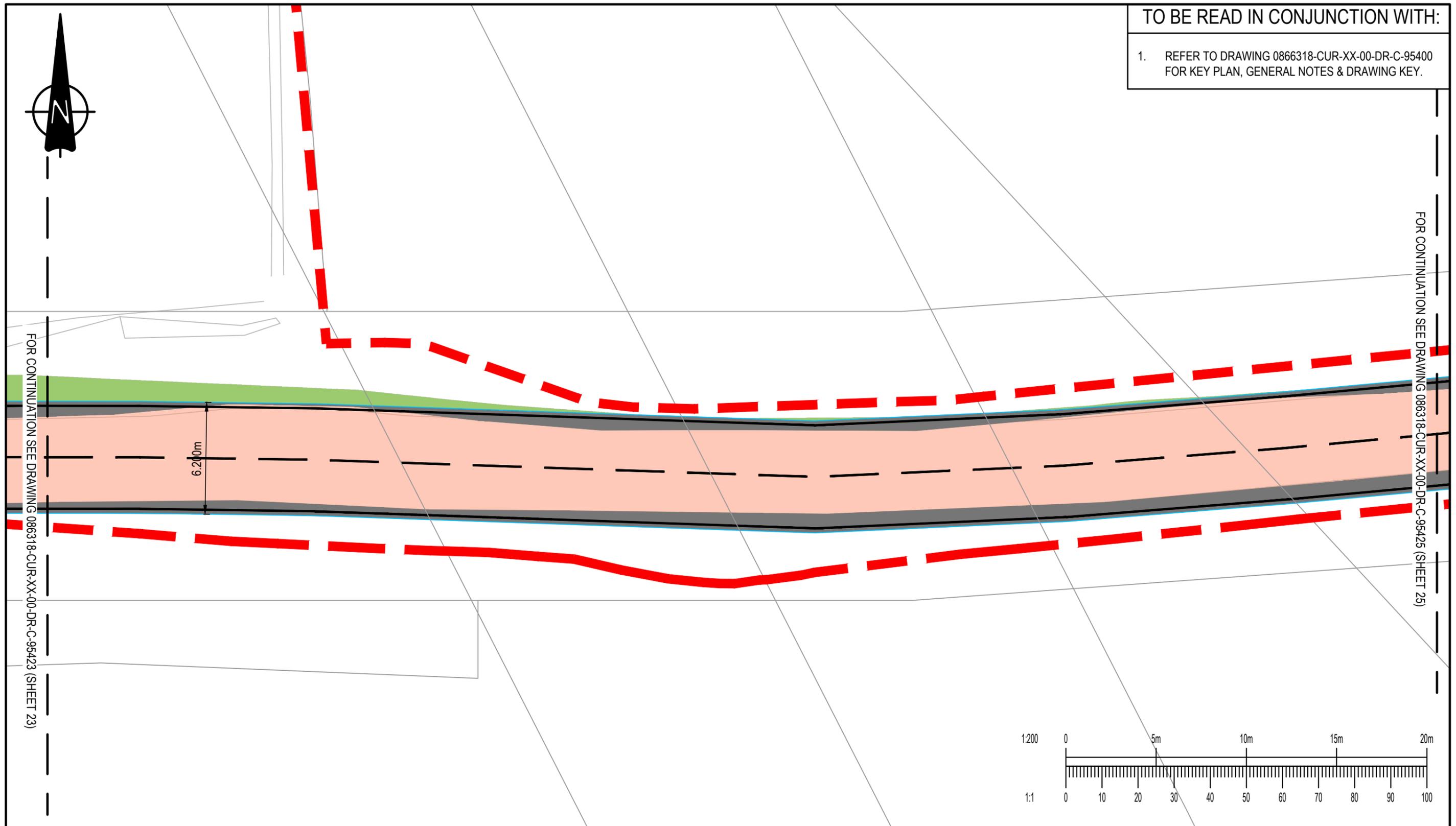
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 23 of 36)		Drawn By	NMH	Checked By TH
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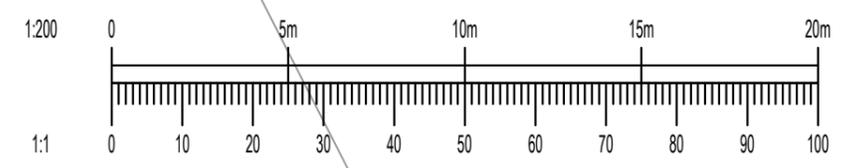
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95425 (SHEET 25)



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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 24 of 36)		Drawn By	NMH	Checked By TH
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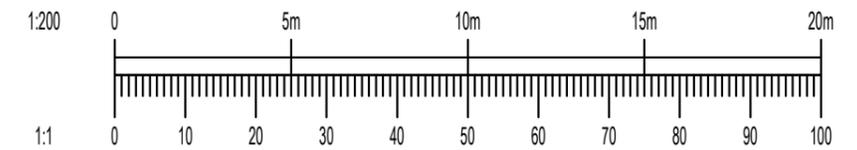
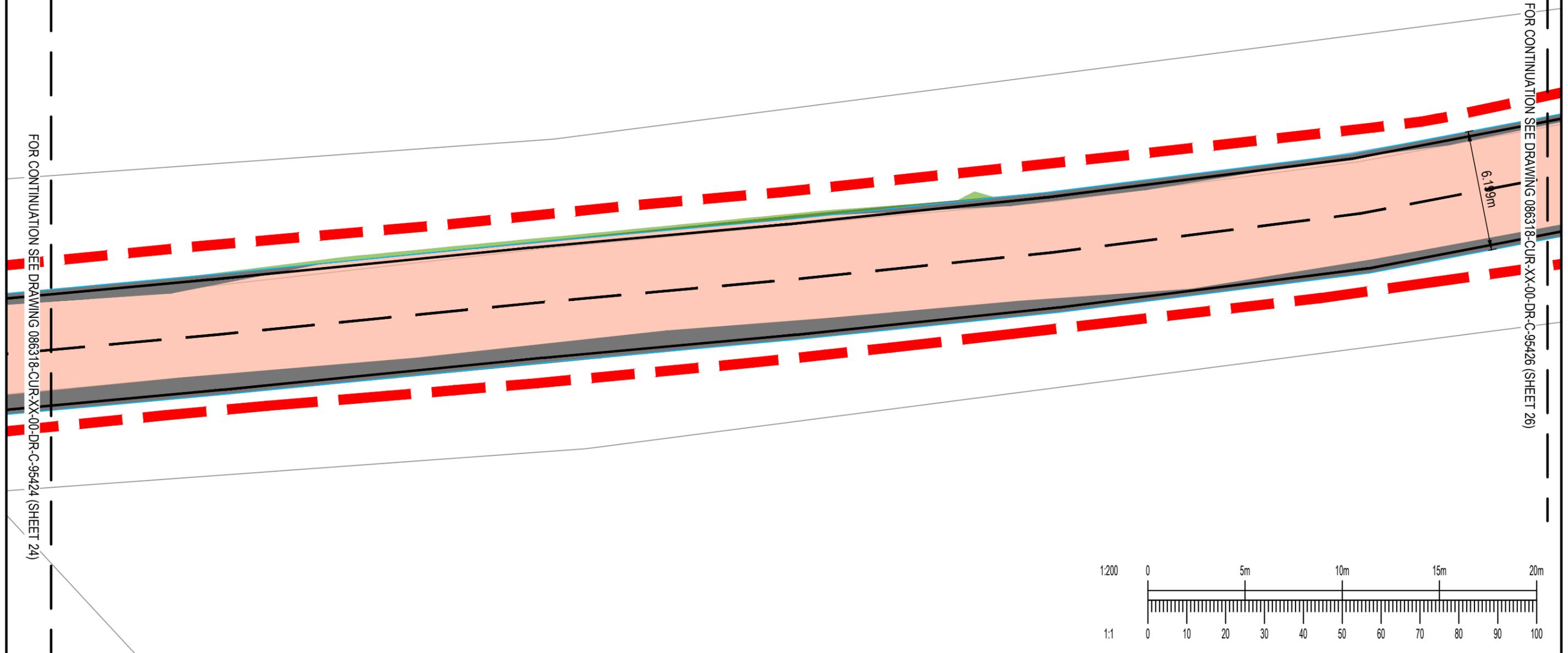


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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95426 (SHEET 26)



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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 25 of 36)		Drawn By	NMH	Checked By TH
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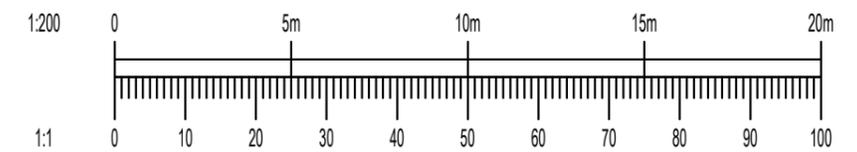
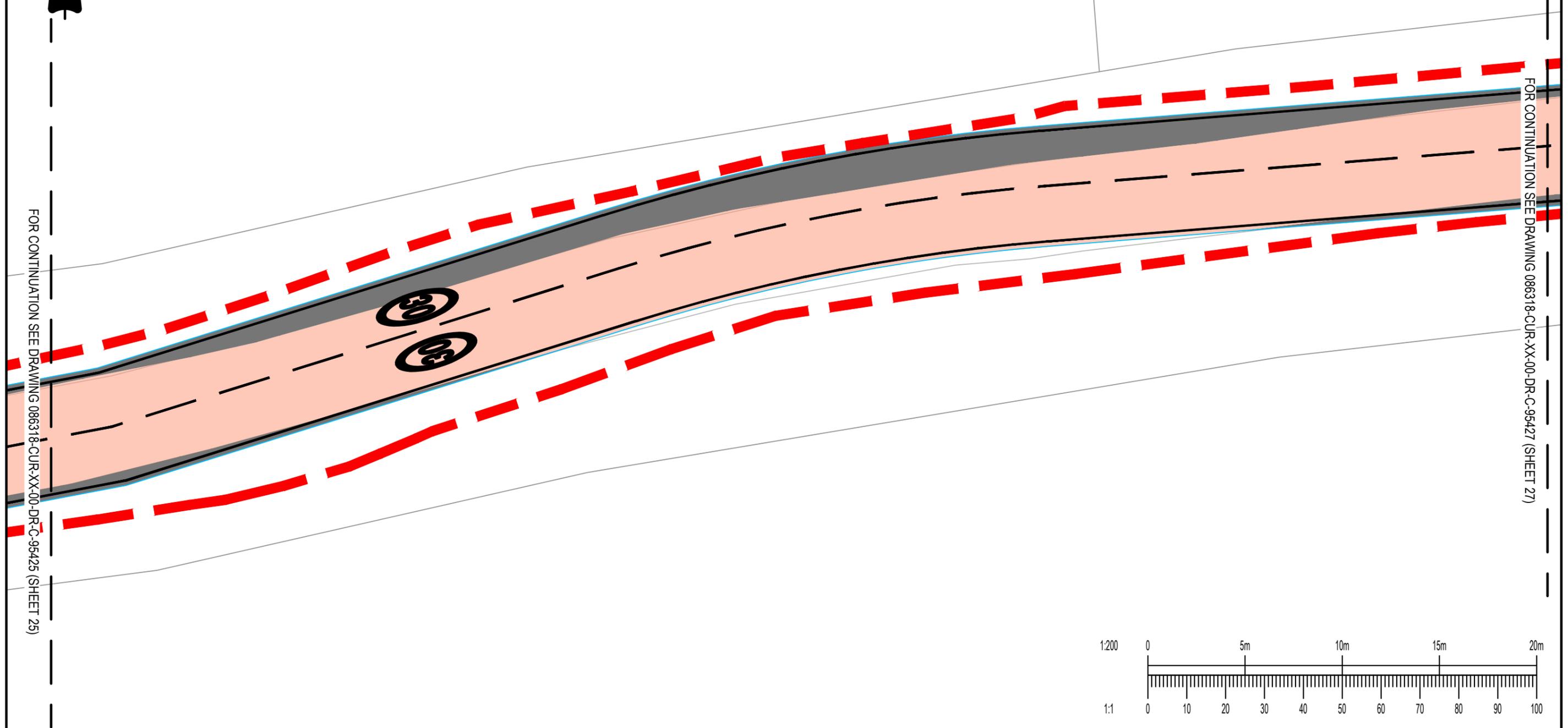


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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95427 (SHEET 27)



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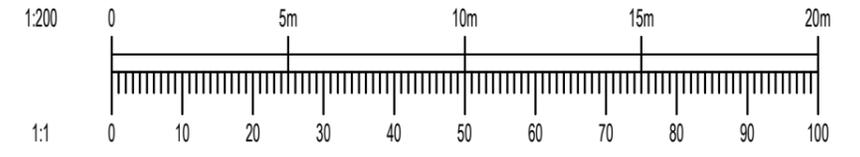
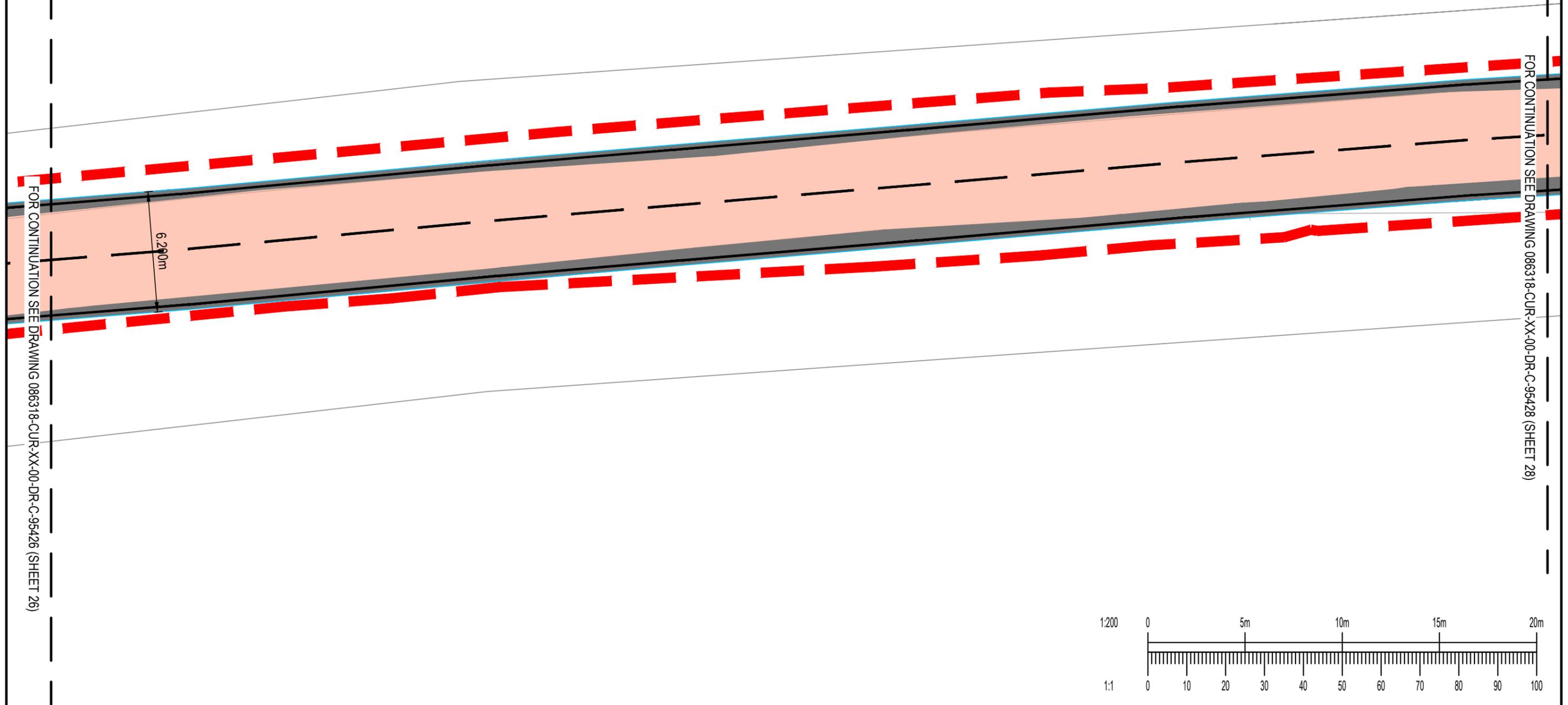
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 26 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95426					P02



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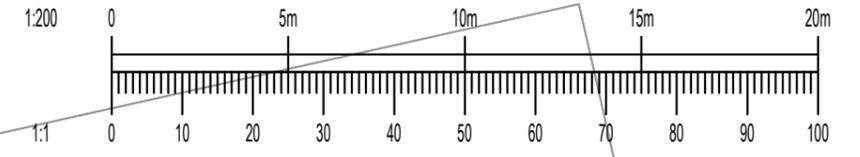
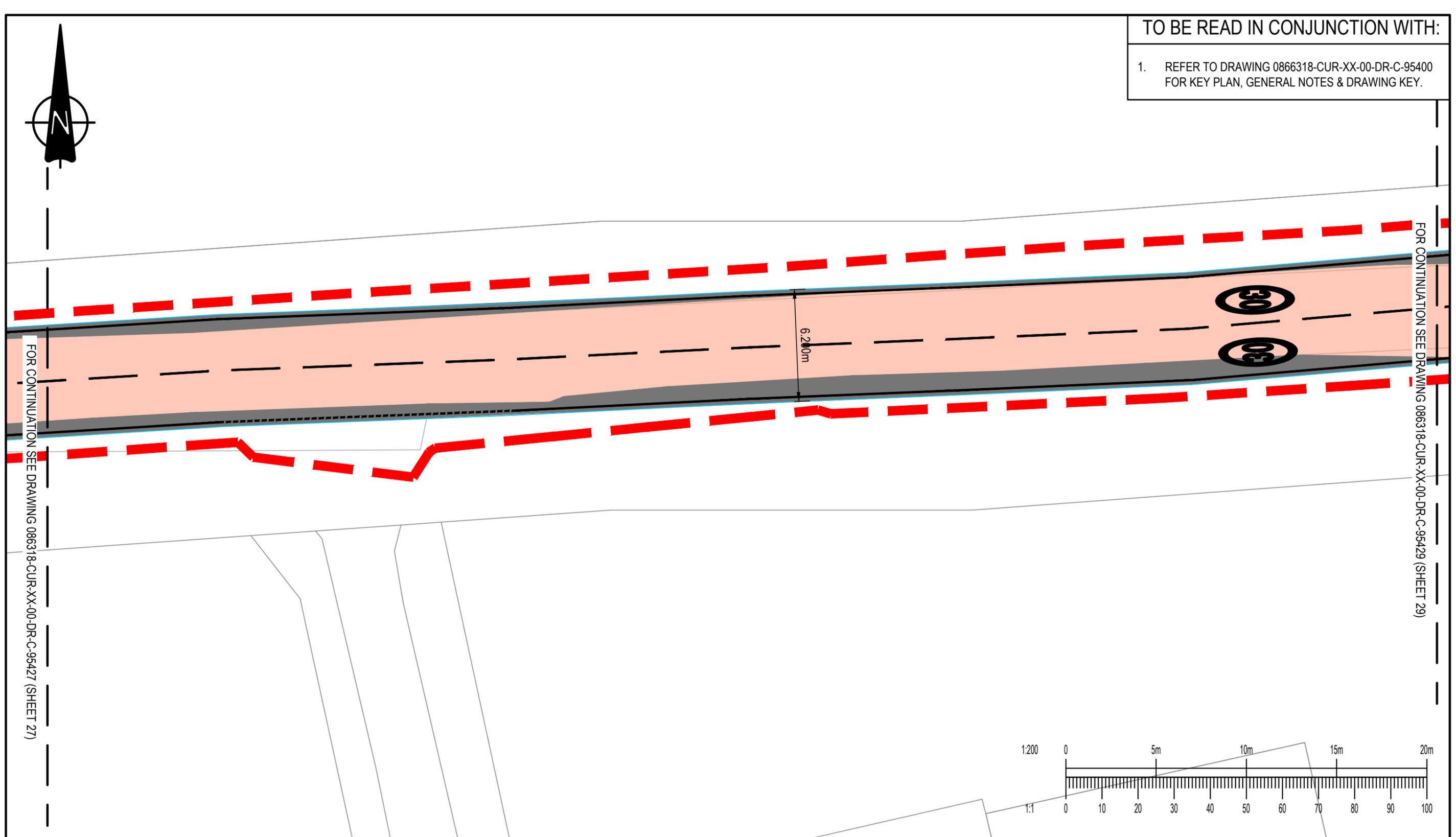
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Project:	EAST HAVERING		Status:	S2
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 27 of 36)		Drawn By	NMH
			Checked By	TH
			Designed By	NMH
			Date	17.02.26
			Scales @ A3	1:200
Project No - Originator - Function - Spatial - Form - Discipline - Number				Revision
086318 - CUR - XX - 00 - DR - C - 95427				P02



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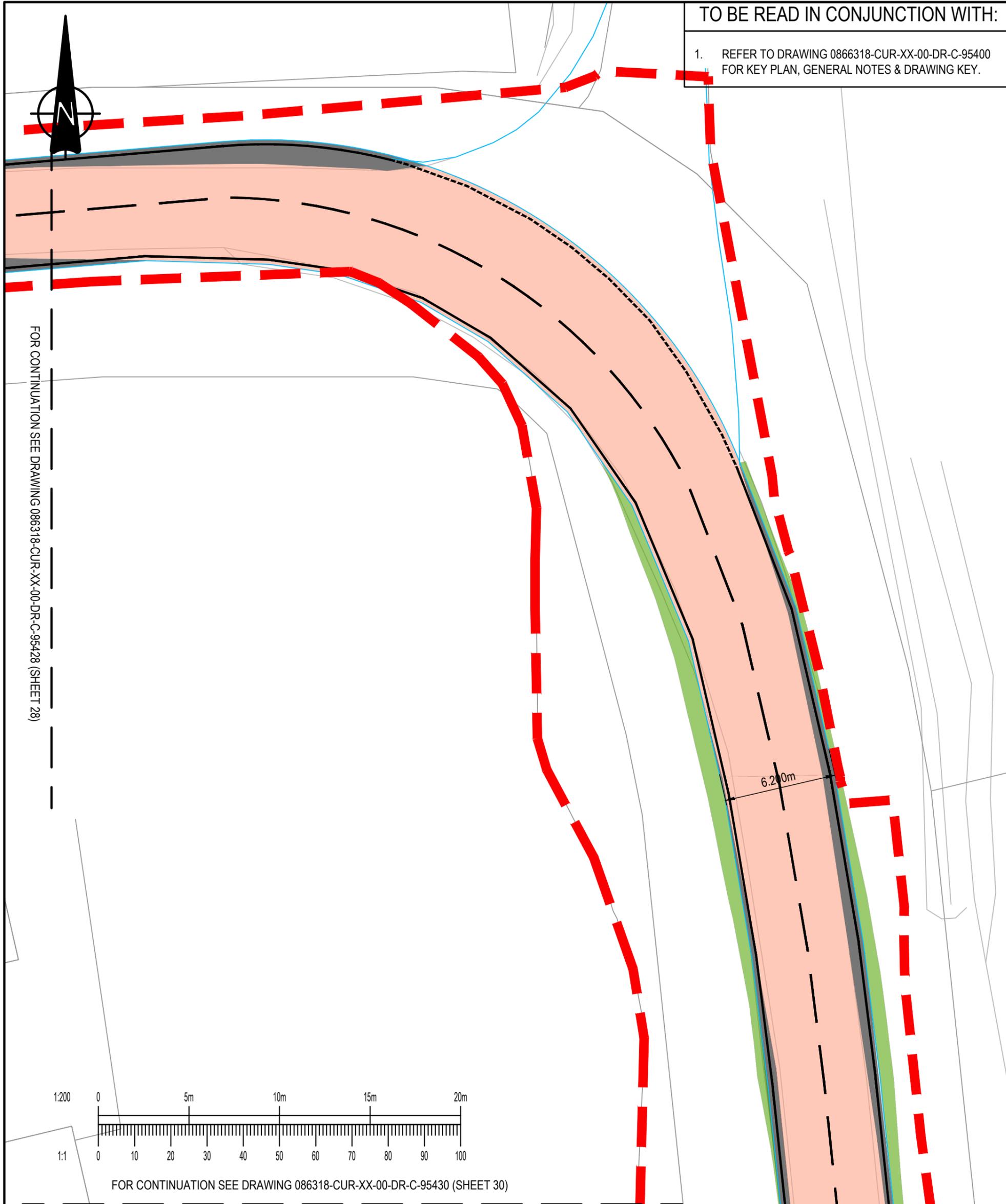
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 28 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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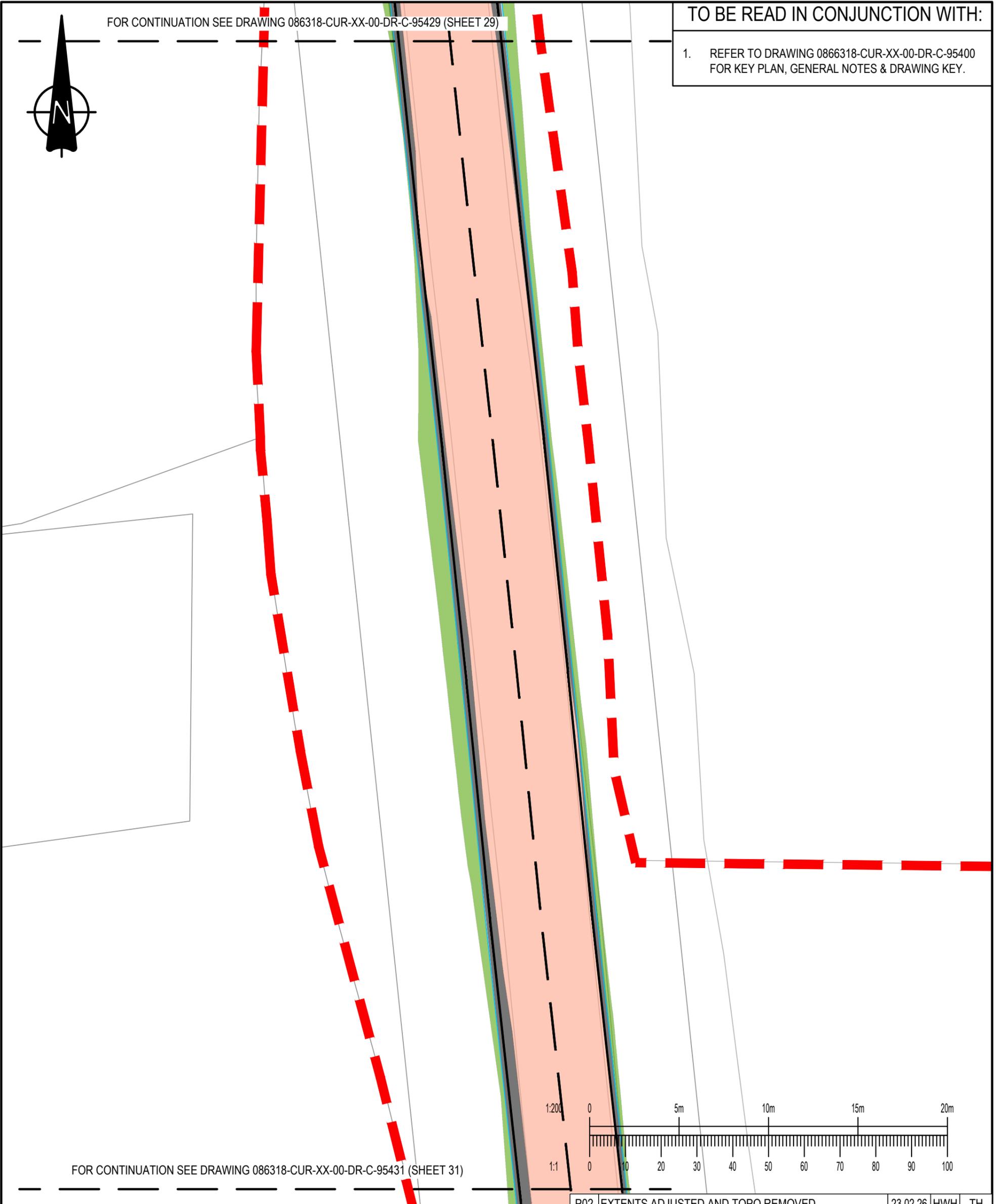
Project:	EAST HAVERING	Status:	S2
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 29 of 36)	Drawn By	NMH
		Checked By	TH
		Designed By	NMH
		Date	17.02.26
		Scales @ A3	1:200
Project No - Originator - Function - Spatial - Form - Discipline - Number			Revision
086318 - CUR - XX - 00 - DR - C - 95429			P02

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P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

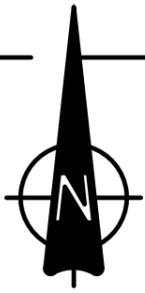
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 30 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95430					P02

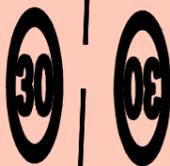
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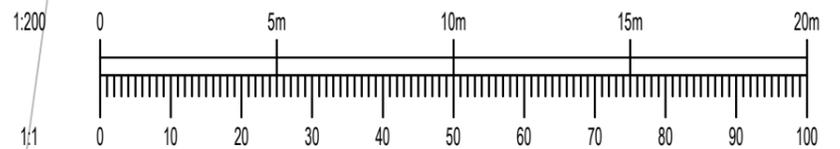
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95432 (SHEET 32)



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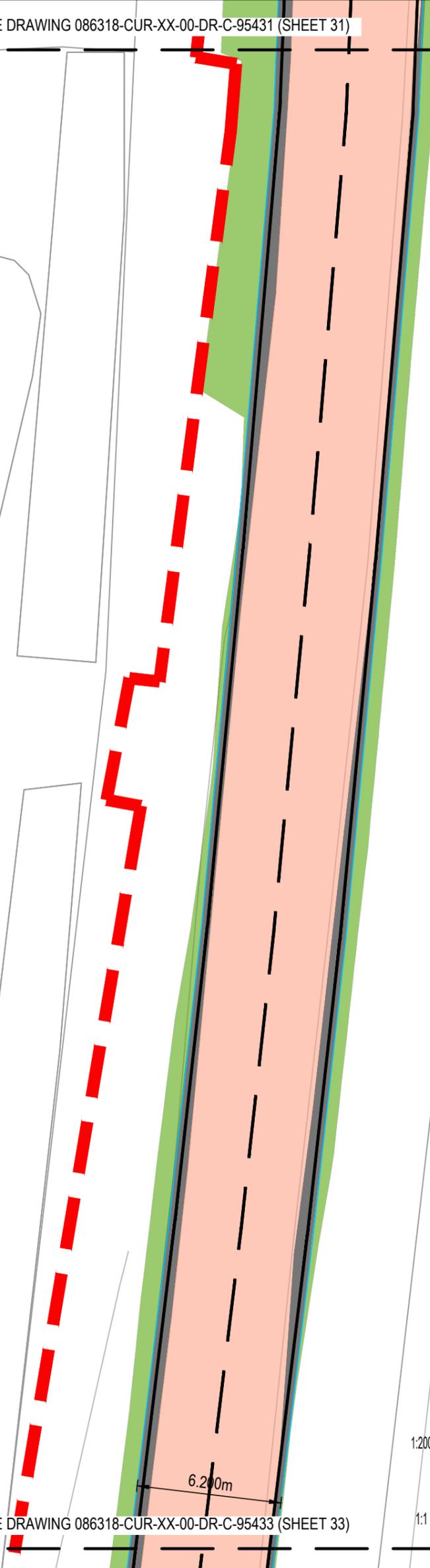
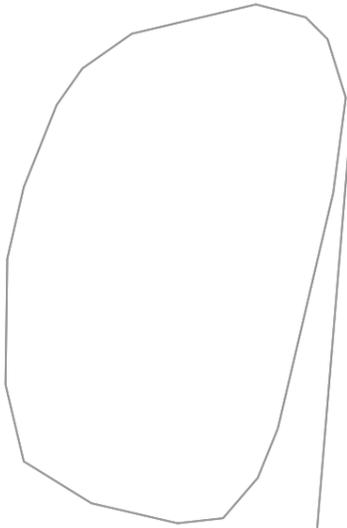
Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 31 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95431					P02

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95431 (SHEET 31)

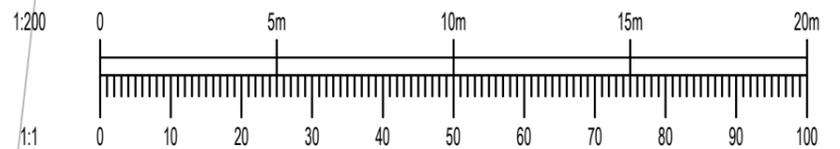


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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95433 (SHEET 33)



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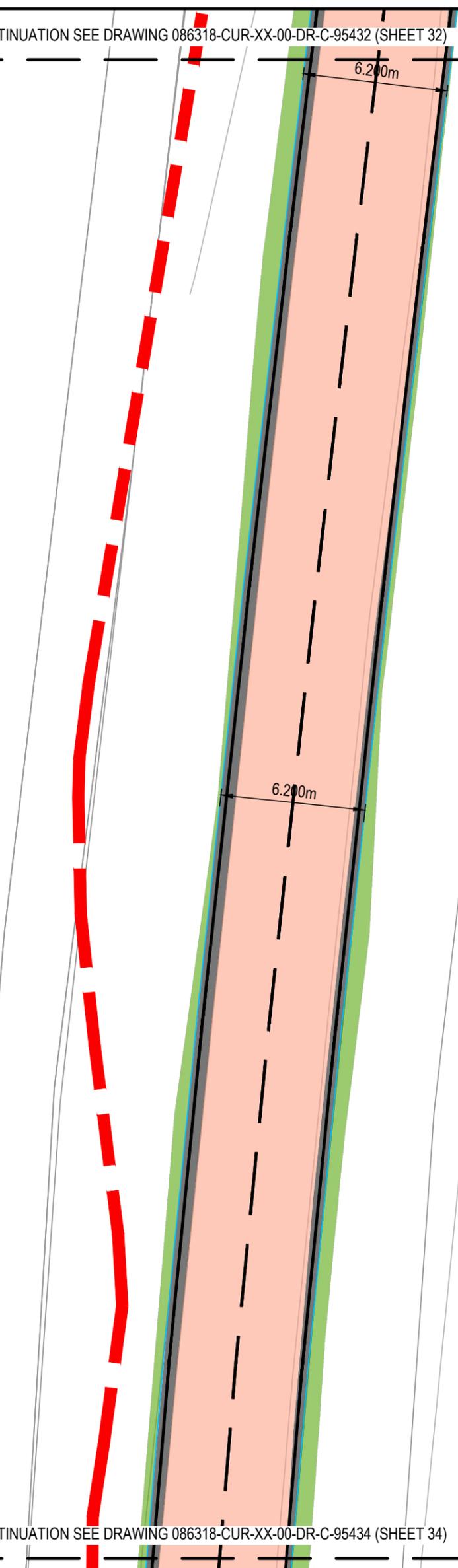
Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 32 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95432 (SHEET 32)

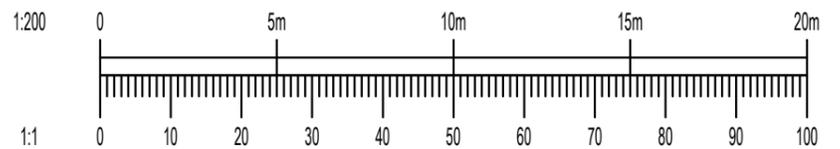


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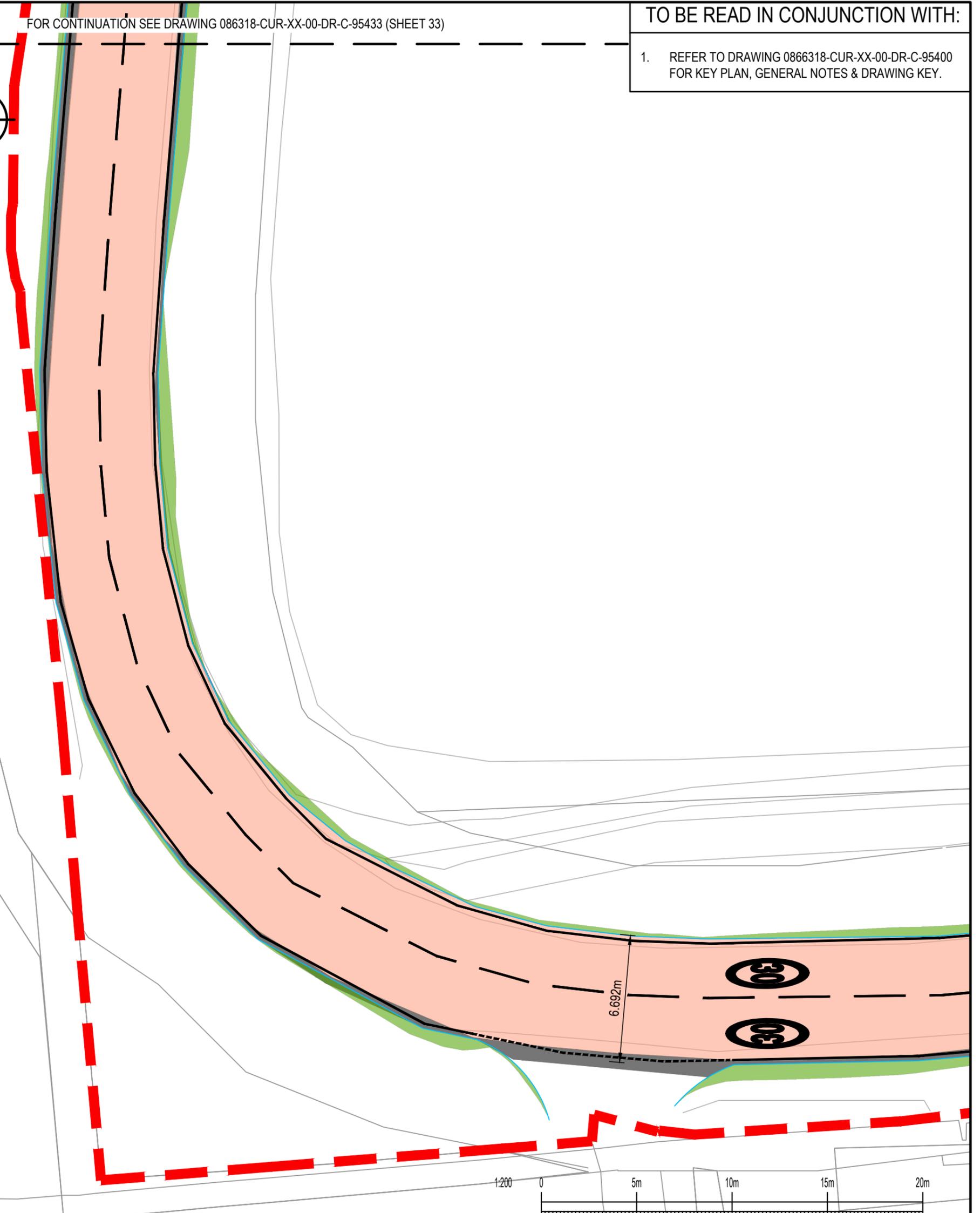
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 33 of 36)	Drawn By	NMH
		Checked By	TH
		Designed By	NMH
		Date	17.02.26
		Scales @ A3 1:200	
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086318 - CUR - XX - 00 - DR - C - 95433			P02

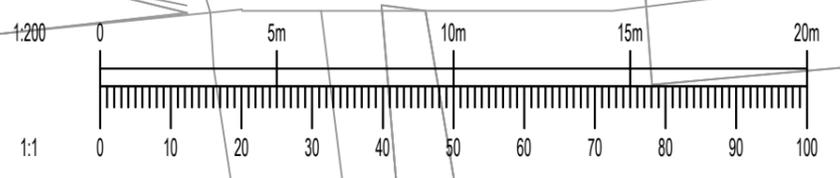
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P02	EXTENTS ADJUSTED AND TOPO REMOVED	23.02.26	HWH	TH
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 34 of 36)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95434					P02

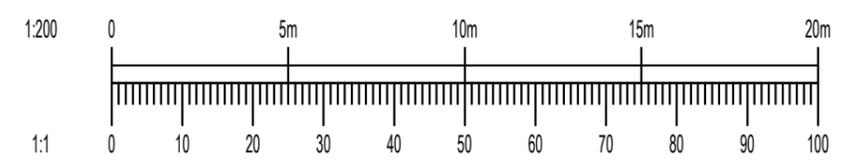
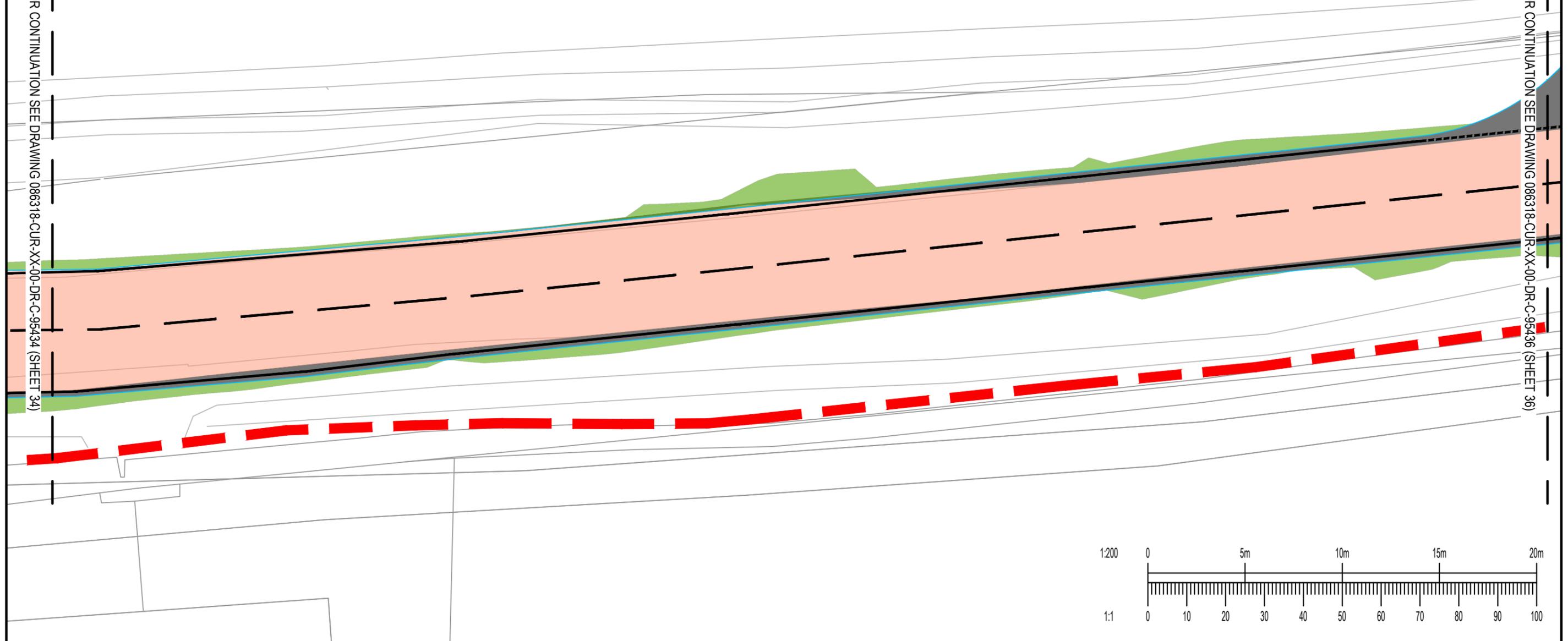


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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95436 (SHEET 36)



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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 35 of 36)		Drawn By	HWH
			Checked By	TH
			Designed By	HWH
			Date	23.02.26
			Scales @ A3	1:200
Project No - Originator - Function - Spatial - Form - Discipline - Number				Revision
086318 - CUR - XX - 00 - DR - C - 95435				P01

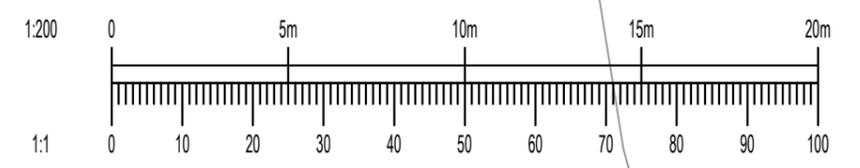
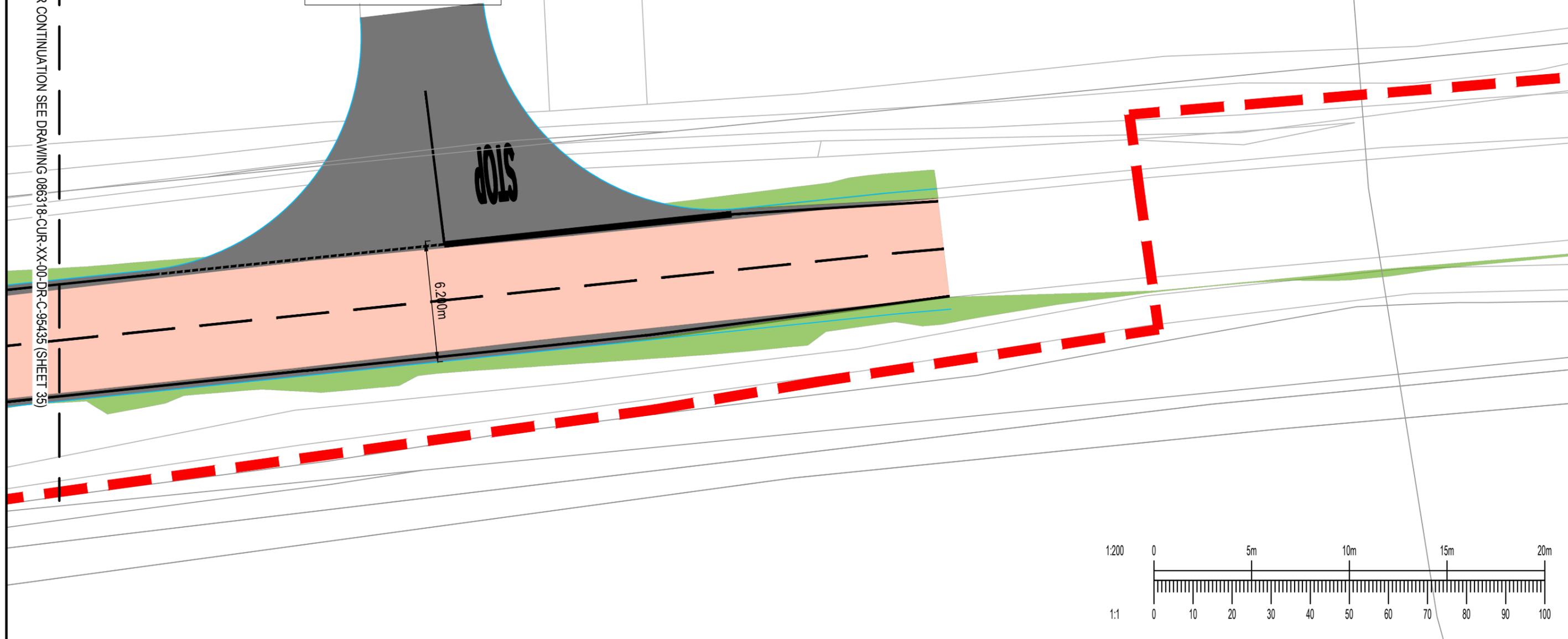
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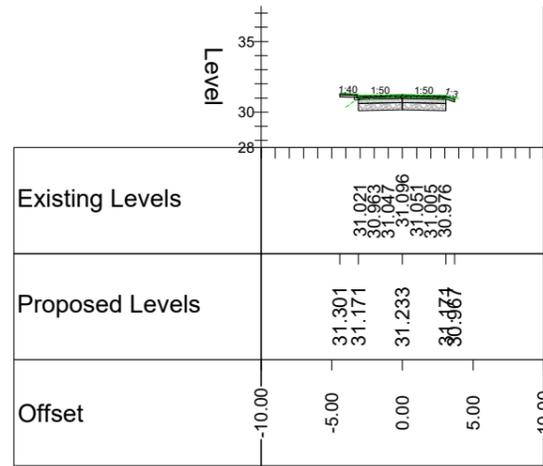
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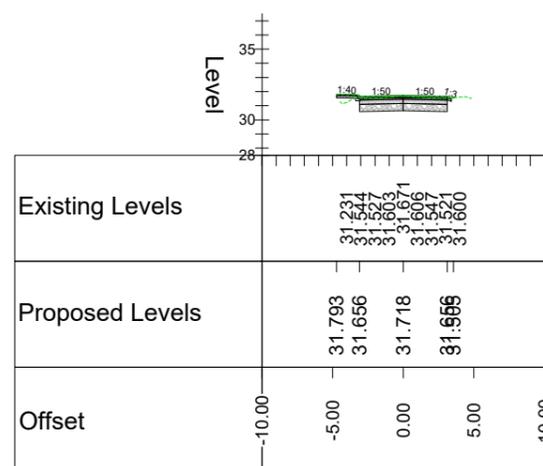
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Drg Title:	HIGHWAY WORKS ON FEN LANE (SHEET 36 of 36)		Drawn By	HWH	Checked By TH
			Designed By	HWH	Date 23.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95436					P01

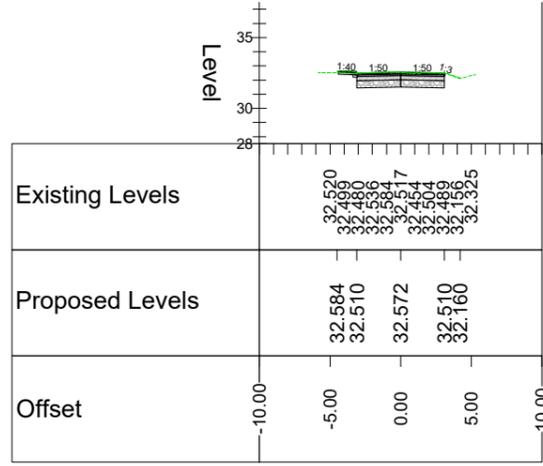
Appendix 5b: Cross Sections



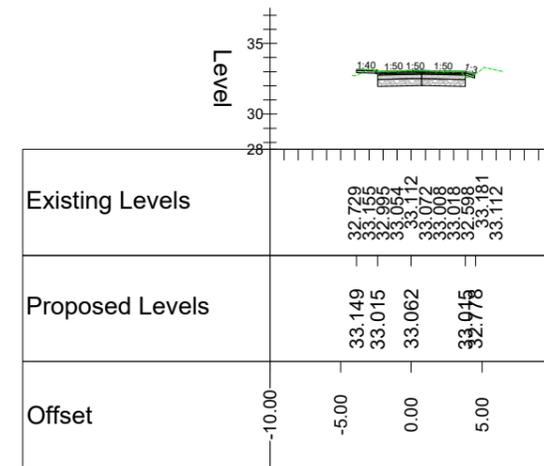
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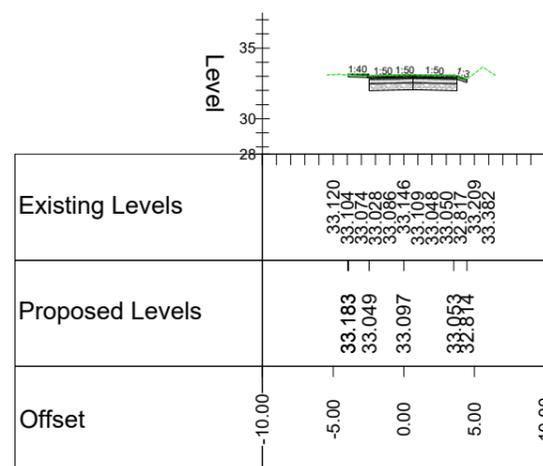
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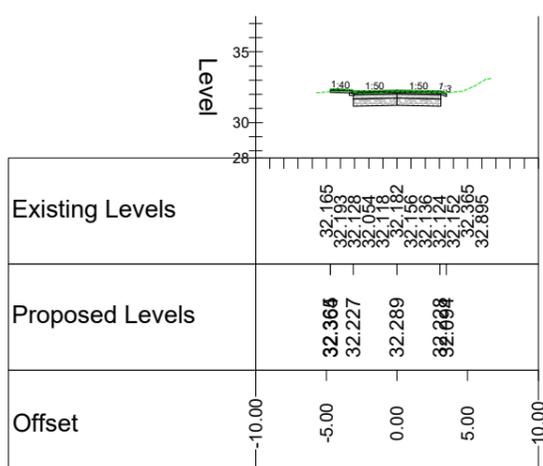
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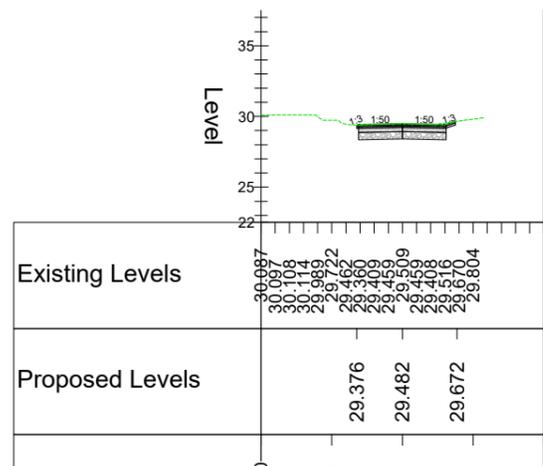
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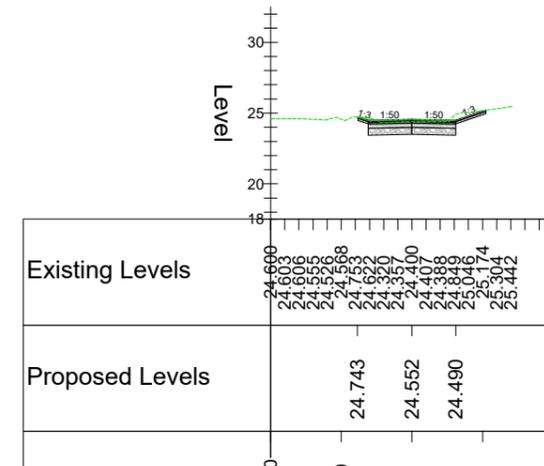
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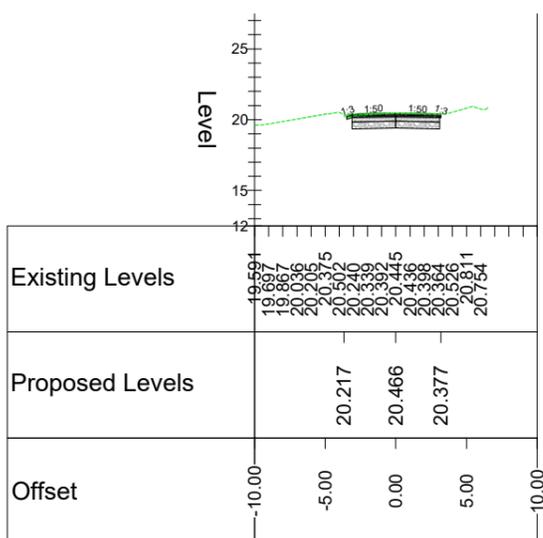
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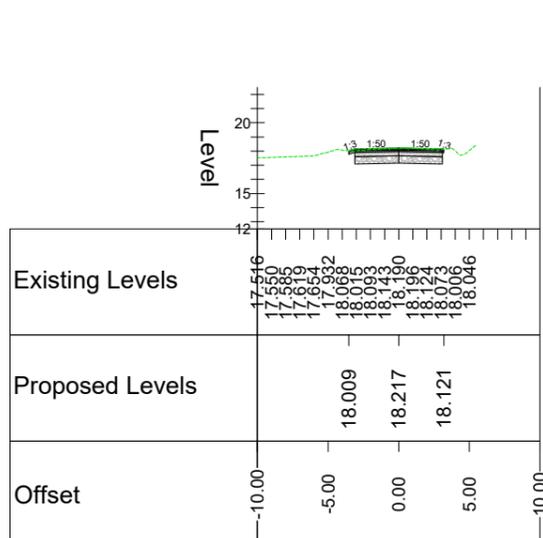
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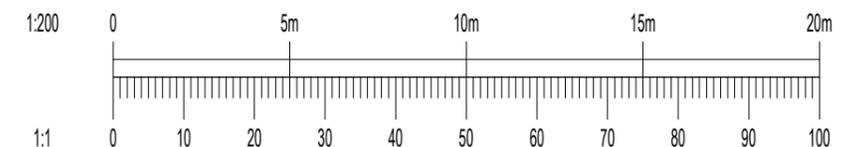
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Project:	EAST HAVERING		Status:	S2				
Drg Title:	HIGHWAY CROSS SECTIONS (SHEET 1 OF 3)				Drawn By	NMH	Checked By	TH
					Designed By	NMH	Date	17.02.26
					Scales @ A3 1:200			
Project No - Originator - Function - Spatial - Form - Discipline - Number								Revision
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Appendix 5c: Long sections

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5. FOR CHAINAGES REFER TO DRAWINGS 086318-CUR-XX-00-DR-C-95150 to 160.
6. PROPOSED LEVELS SET TO EXISTING LEVELS WHERE POSSIBLE.

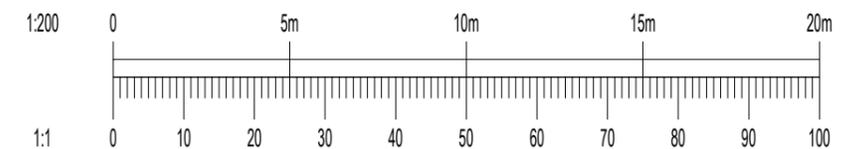
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KEY

- EXISTING GROUND
- PROPOSED LEVELS



P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

<p style="font-size: 0.8em; margin: 5px 0;">40 Compton Street, London, EC1V 0AP t: 020 7324 2240 london@curtins.com www.curtins.com</p> <p style="font-size: 0.6em; margin: 0;">Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kendal • Leeds • Liverpool • London • Manchester • Nottingham</p>	Project: EAST HAVERING	Status: S2	
	Drg Title: HIGHWAY LONGSECTIONS OVERVIEW		Drawn By NMH Checked By TH
			Designed By NMH Date 17.02.26
			Scales @ A3 1:200
Project No - Originator - Function - Spatial - Form - Discipline - Number			Revision
086318 - CUR - XX - 00 - DR - C - 95950			P01

Level

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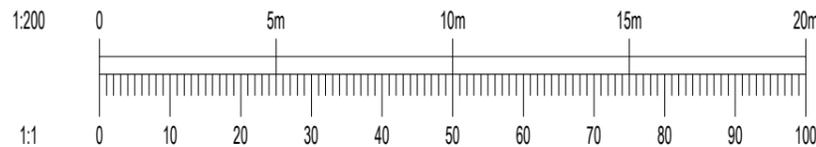
1:179 1:459

1:103

Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000
Existing Levels	30.921	30.928	30.875	30.935	31.002	31.096	31.196	31.300	31.426	31.562	31.671	31.803	31.918	32.018	32.111
Proposed Levels	30.921	30.949	30.942	31.039	31.136	31.233	31.330	31.427	31.524	31.621	31.718	31.815	31.912	32.009	32.105

TO BE READ IN CONJUNCTION WITH:

1. REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.
2. CONTINUED ON 0866318-CUR-XX-00-DR-C-95952



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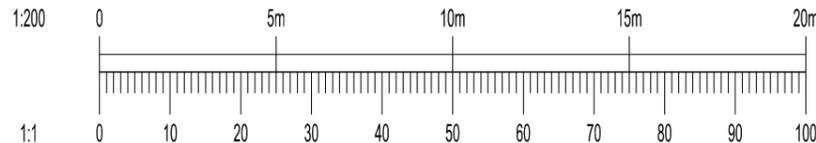
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 1 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95951					P01



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1. REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR KEY PLAN, GENERAL NOTES & DRAWING KEY.
2. CONTINUED ON 0866318-CUR-XX-00-DR-C-95954



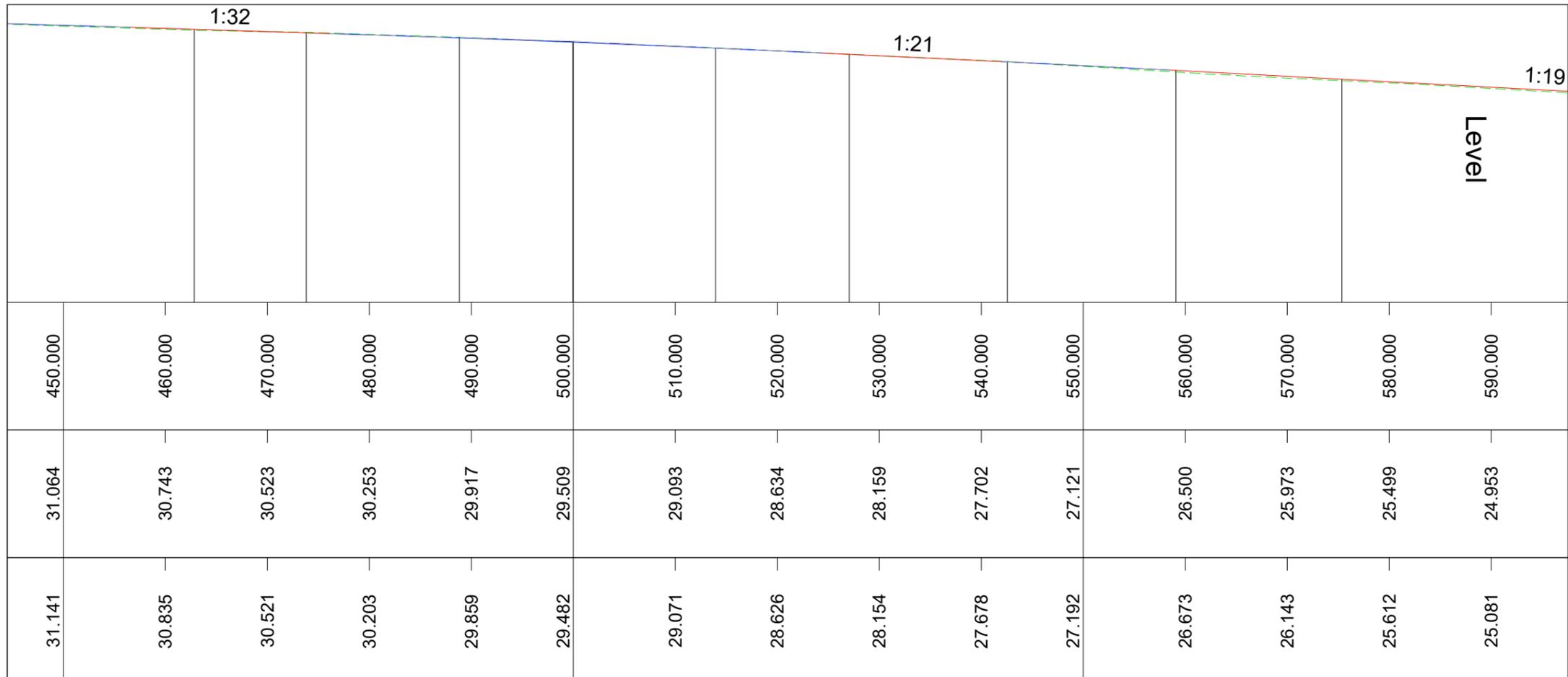
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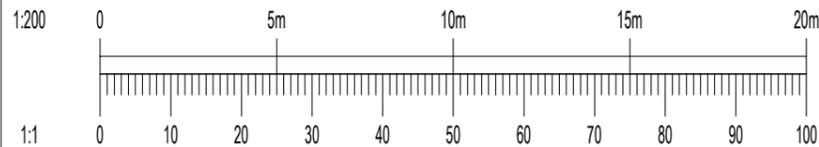
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 3 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95953					P01



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- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.



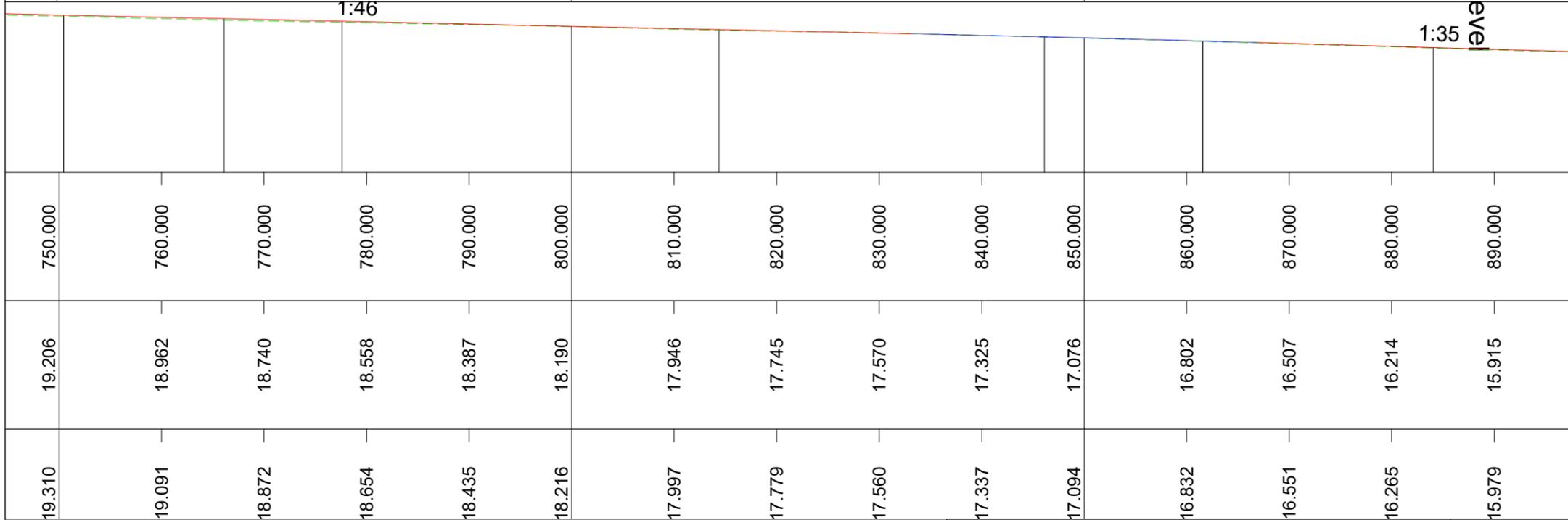
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:



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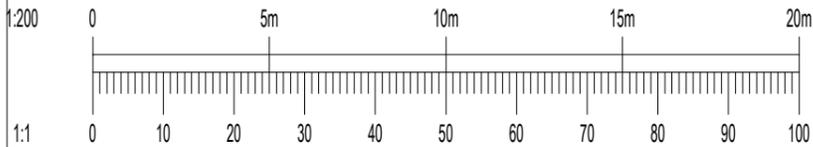
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 4 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95954					P01



TO BE READ IN CONJUNCTION WITH:

- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.



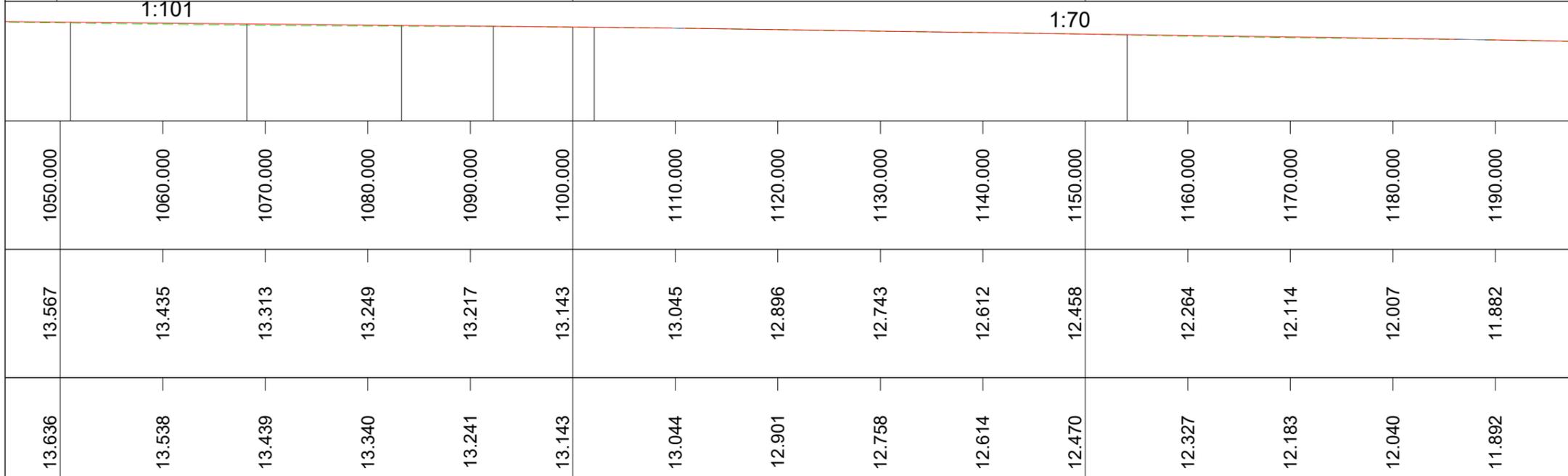
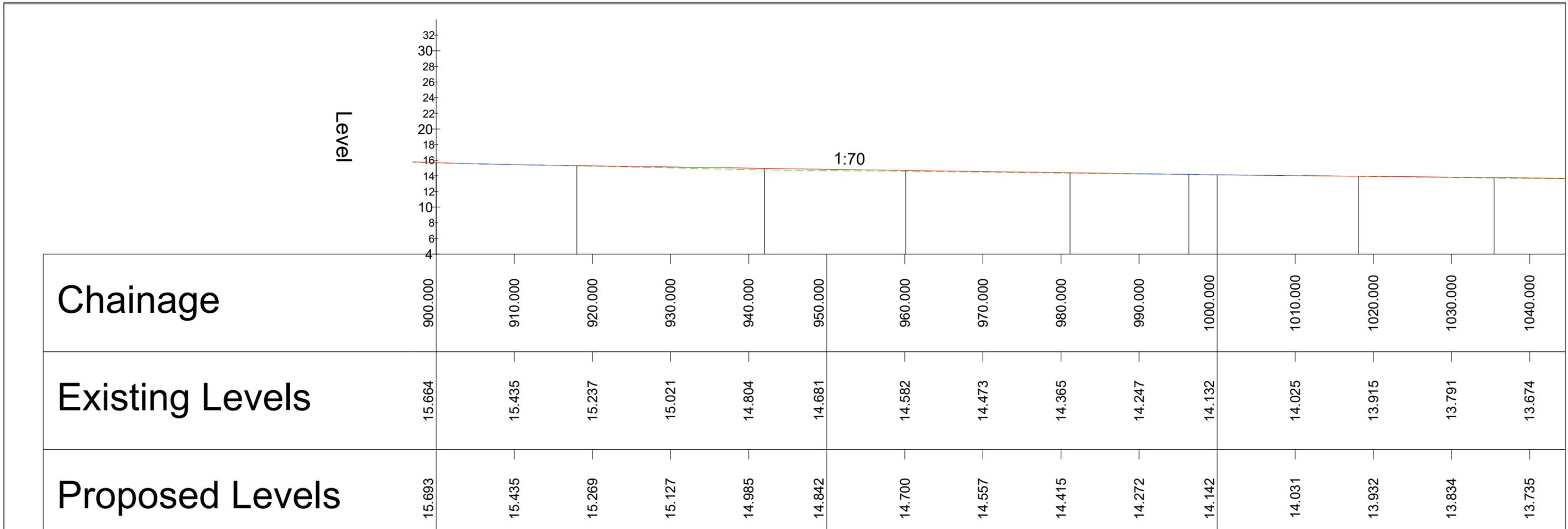
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
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Drg Title:	HIGHWAY LONGSECTIONS (SHEET 5 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95955					P01



TO BE READ IN CONJUNCTION WITH:

1. REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.

1:200		0		5m		10m		15m		20m	
1:1		0		10		20		30		40	
P01	PRELIMINARY ISSUE	17.02.26	ER	TH							
Rev:	Description:	Date:	By:	Chkd:							

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Project:	EAST HAVERING		Status:	S2		
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 6 OF 11)		Drawn By	NMH	Checked By	TH
			Designed By	NMH	Date	17.02.26
			Scales @ A3 1:200			
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision	
086318 - CUR - XX - 00 - DR - C - 95956					P01	

Level

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1:115

Chainage

Existing Levels

Proposed Levels

1500.000	1510.000	1520.000	1530.000	1540.000	1550.000	1560.000	1570.000	1580.000	1590.000	1600.000	1610.000	1620.000	1630.000	1640.000
8.453	8.344	8.238	8.160	8.083	8.007	7.934	7.886	7.823	7.725	7.629	7.557	7.421	7.338	7.277
8.519	8.433	8.346	8.259	8.172	8.086	7.999	7.912	7.825	7.738	7.657	7.595	7.539	7.482	7.426

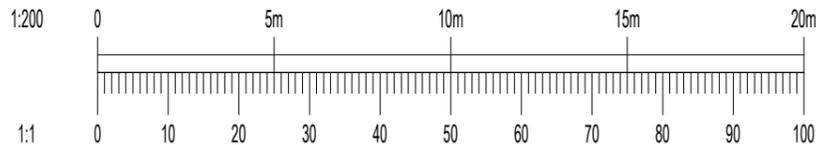
1:177

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1650.000	1660.000	1670.000	1680.000	1690.000	1700.000	1710.000	1720.000	1730.000	1740.000	1750.000	1760.000	1770.000	1780.000	1790.000
7.216	7.202	7.169	7.158	7.130	7.084	7.064	7.064	7.057	7.048	7.032	6.960	6.904	6.853	6.748
7.369	7.313	7.256	7.200	7.143	7.087	7.037	6.987	6.937	6.887	6.837	6.787	6.737	6.687	6.637

TO BE READ IN CONJUNCTION WITH:

- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.



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Project: EAST HAVERING

Status: S2

Drg Title: HIGHWAY LONGSECTIONS
(SHEET 8 OF 11)

Drawn By NMH Checked By TH

Designed By NMH Date 17.02.26

Scales @ A3 1:200

Project No - Originator - Function - Spatial - Form - Discipline - Number

Revision

086318 - CUR - XX - 00 - DR - C - 95958

P01

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Level

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Chainage

1800.000 1810.000 1820.000 1830.000 1840.000 1850.000 1860.000 1870.000 1880.000 1890.000 1900.000 1910.000 1920.000 1930.000 1940.000

Existing Levels

6.715 6.634 6.564 6.450 6.387 6.346 6.294 6.282 6.298 6.337 6.334 6.343 6.363 6.374 6.238

Proposed Levels

6.588 6.538 6.488 6.438 6.388 6.342 6.310 6.282 6.254 6.226 6.198 6.170 6.142 6.114 6.086

1:357

1950.000 1960.000 1970.000 1980.000 1990.000 2000.000

6.119 6.013 5.928 5.860 5.806 5.773

6.058 6.030 6.002 5.974 5.946 5.918

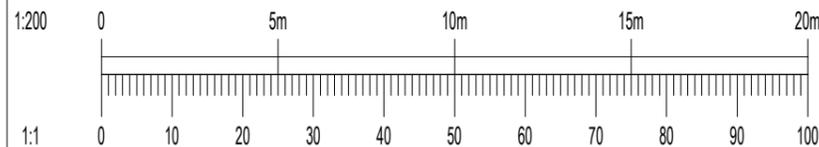
2010.000 2020.000 2030.000 2040.000 2050.000 2060.000 2070.000 2080.000 2090.000

5.734 5.692 5.689 5.688 5.697 5.697 5.684 5.680 5.679

5.890 5.862 5.834 5.806 5.778 5.750 5.722 5.694 5.666

TO BE READ IN CONJUNCTION WITH:

- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.



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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 9 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95950					P01

Level

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Chainage

Existing Levels

Proposed Levels

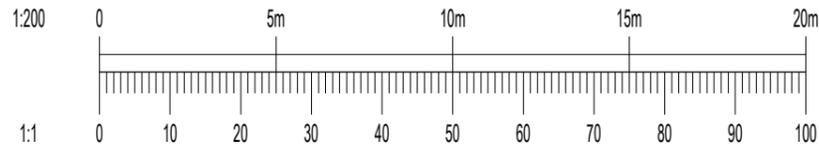
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5.687	5.652	5.604	5.579	5.574	5.577	5.485	5.452	5.426	5.471	5.595	5.718	5.823	5.772	5.698
5.638	5.610	5.582	5.554	5.526	5.498	5.470	5.442	5.418	5.441	5.466	5.491	5.515	5.540	5.565

1:158

2250.000	2260.000	2270.000	2280.000	2290.000	2300.000	2310.000	2320.000	2330.000	2340.000	2350.000	2360.000	2370.000	2380.000	2390.000
5.658	5.636	5.633	5.577	5.451	5.324	5.228	5.152	5.085	5.012	4.975	4.970	4.968	4.945	4.893
5.589	5.614	5.635	5.584	5.520	5.457	5.394	5.330	5.267	5.203	5.140	5.076	5.013	4.949	4.886

TO BE READ IN CONJUNCTION WITH:

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Project:	EAST HAVERING		Status:	S2		
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 10 OF 11)		Drawn By	NMH	Checked By	TH
			Designed By	NMH	Date	17.02.26
			Scales @ A3 1:200			
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision	
086318 - CUR - XX - 00 - DR - C - 95960					P01	

P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

Level

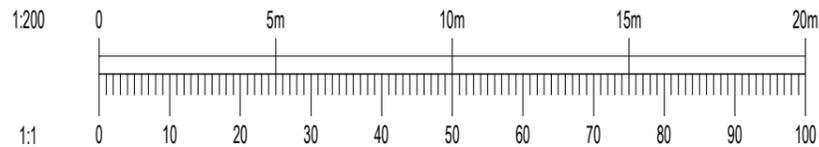
32
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1:776

Chainage	2400.000	2410.000	2420.000	2430.000	2440.000	2450.000	2460.000	2470.000	2480.000	2490.000	2500.000	2510.000	2520.000	2526.121
Existing Levels	4.851	4.868	4.854	4.869	4.953	4.924	4.934	4.952	4.957	4.961	4.981	5.019	5.040	5.024
Proposed Levels	4.857	4.870	4.883	4.896	4.909	4.922	4.935	4.948	4.960	4.973	4.978	4.972	4.959	4.950

TO BE READ IN CONJUNCTION WITH:

- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95950 FOR GENERAL NOTES & DRAWING KEY.



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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY LONGSECTIONS (SHEET 11 OF 11)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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Appendix 5d: Contours Plan



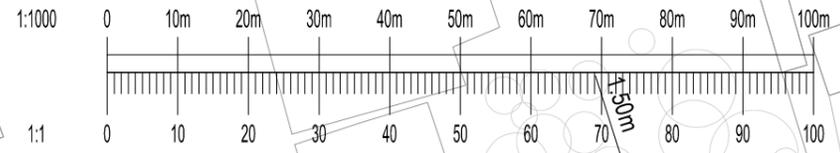
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3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

KEY

	HIGHWAY BOUNDARY
	MAJOR CONTOUR (0.5m)
	MINOR CONTOUR (0.1m)

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havinging_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95151 (SHEET 2)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

DESIGN RISKS AND ASSUMPTIONS

THE FOLLOWING DESIGN NOTES AND ASSUMPTIONS HAVE BEEN MADE IN THE PRODUCTION OF THIS DRAWING:

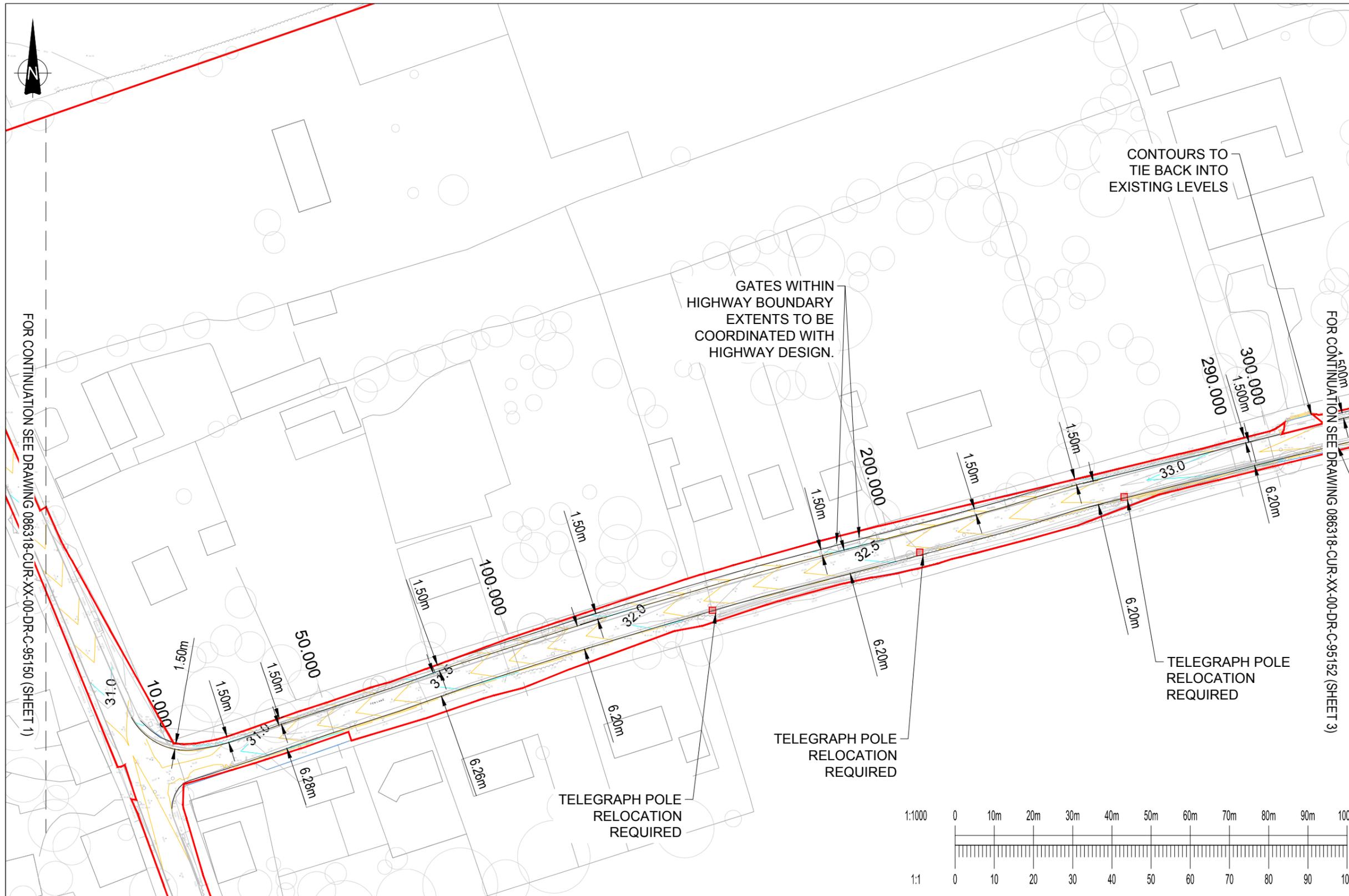
1. TO BE COORDINATED WITH ARBORCULTURALIST.
2. DESIGN SUBJECT TO CONFIRMATION FROM THE LOCAL PLANNING AUTHORITY
3. DESIGN SUBJECT TO ROAD SAFETY AUDIT.
4. DESIGN SUBJECT TO FURTHER SURVEYS REGARDING THE EXISTING DITCHES. DRAINAGE MAY BE REQUIRED FOLLOWING OUTCOME OF SURVEYS.



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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 1 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95150					P03



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3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.

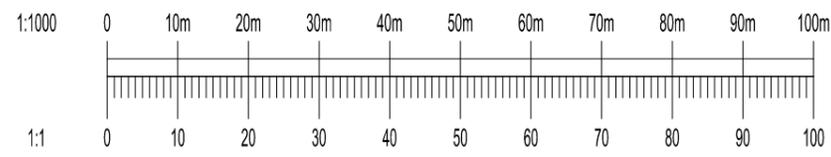
KEY

—	HIGHWAY BOUNDARY
—	MAJOR CONTOUR (0.5m)
—	MINOR CONTOUR (0.1m)

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havering_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95150 (SHEET 1)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95152 (SHEET 3)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

DESIGN RISKS AND ASSUMPTIONS

THE FOLLOWING DESIGN NOTES AND ASSUMPTIONS HAVE BEEN MADE IN THE PRODUCTION OF THIS DRAWING:

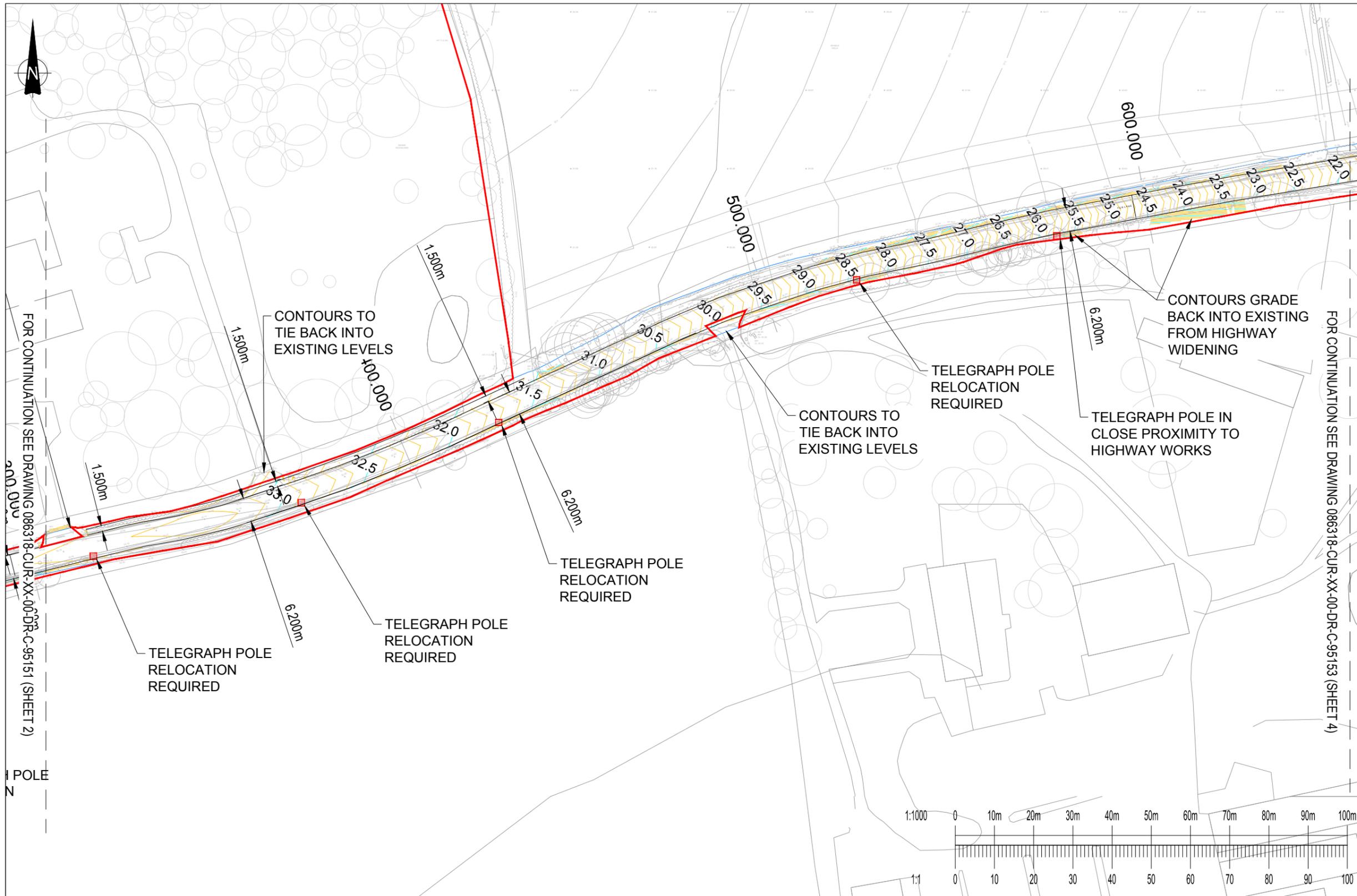
1. TO BE COORDINATED WITH ARBORCULTURALIST.
2. DESIGN SUBJECT TO CONFIRMATION FROM THE LOCAL PLANNING AUTHORITY
3. DESIGN SUBJECT TO ROAD SAFETY AUDIT.
4. DESIGN SUBJECT TO FURTHER SURVEYS REGARDING THE EXISTING DITCHES. DRAINAGE MAY BE REQUIRED FOLLOWING OUTCOME OF SURVEYS.

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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 2 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95151					P03



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KEY

	HIGHWAY BOUNDARY
	MAJOR CONTOUR (0.5m)
	MINOR CONTOUR (0.1m)

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Having_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95151 (SHEET 2)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95153 (SHEET 4)

POLE

P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
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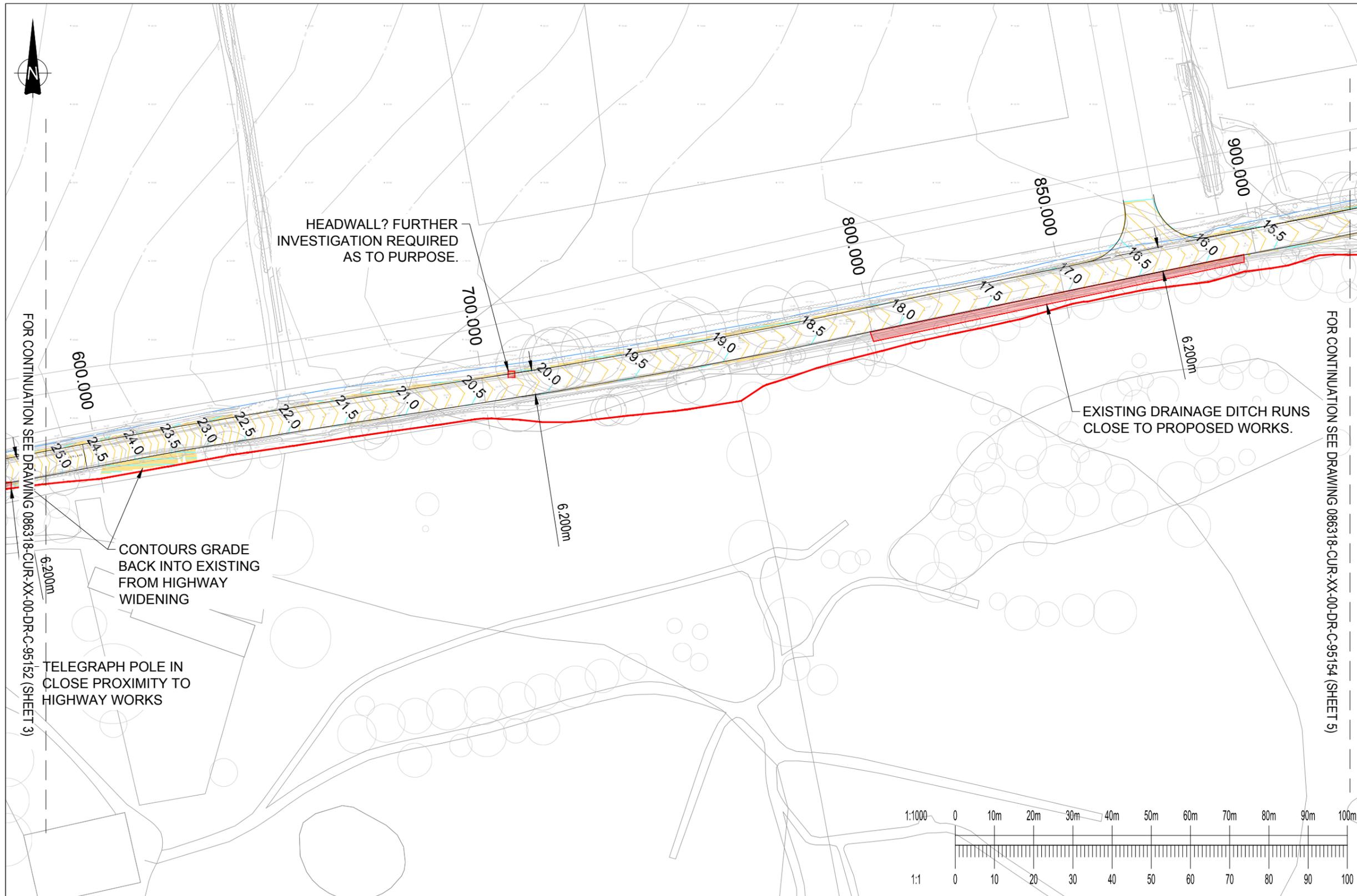
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Project: EAST HAVERING		Status: S2
Drg Title: HIGHWAY CONTOURS SHEET 3 OF 11		Drawn By NMH Checked By TH
		Designed By NMH Date 17.02.26
		Scales @ A3 1:1000
Project No - Originator - Function - Spatial - Form - Discipline - Number		Revision
086318 - CUR - XX - 00 - DR - C - 95152		P03



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5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95152 (SHEET 3)

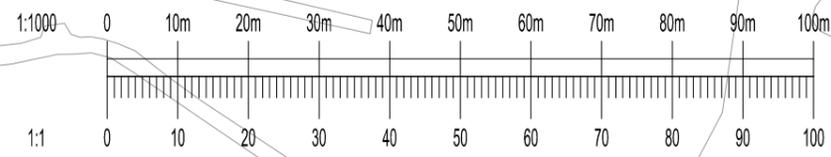
FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95154 (SHEET 5)

HEADWALL? FURTHER INVESTIGATION REQUIRED AS TO PURPOSE.

EXISTING DRAINAGE DITCH RUNS CLOSE TO PROPOSED WORKS.

CONTOURS GRADE BACK INTO EXISTING FROM HIGHWAY WIDENING

TELEGRAPH POLE IN CLOSE PROXIMITY TO HIGHWAY WORKS



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
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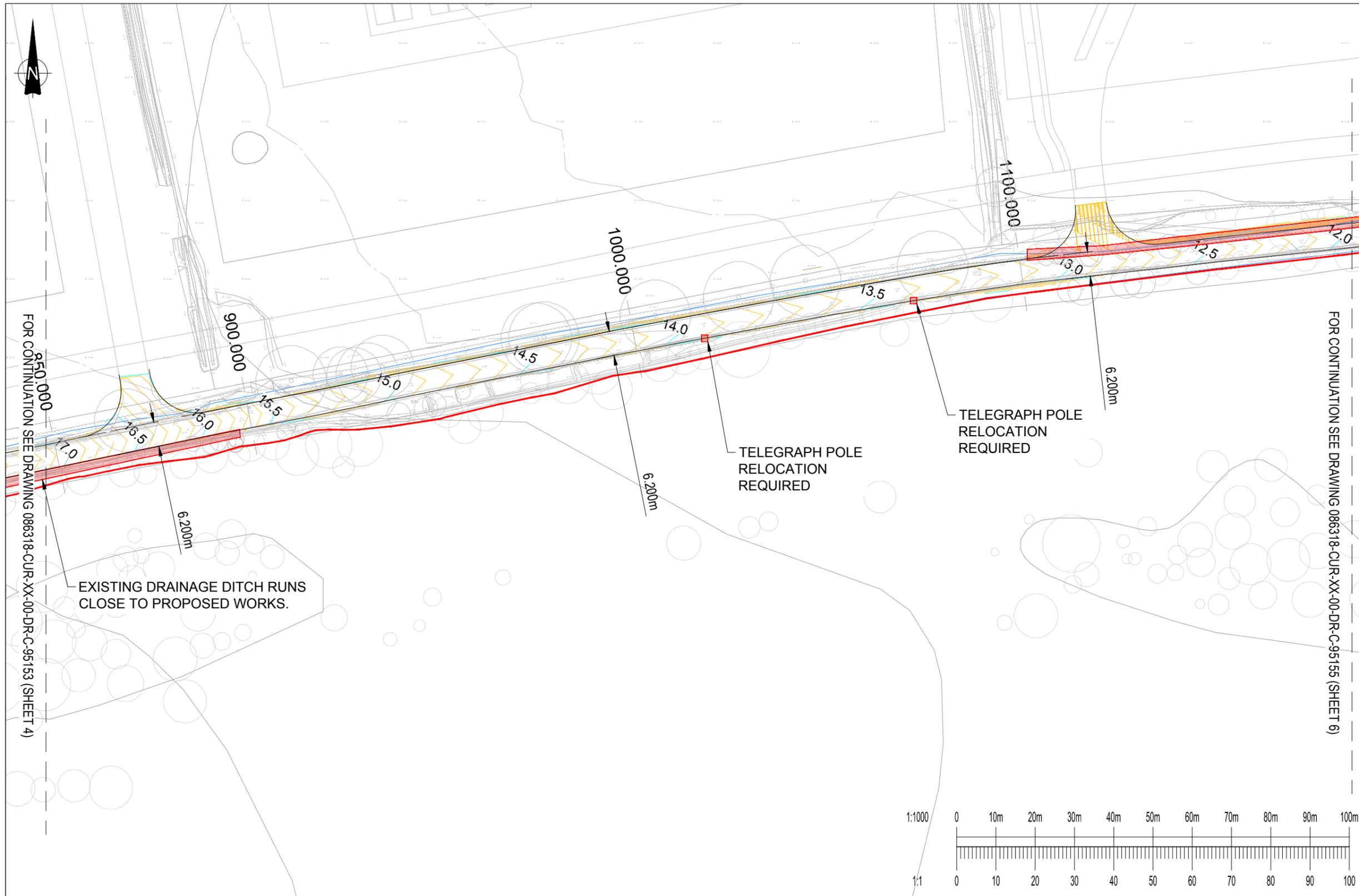
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 4 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95153					P03



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3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

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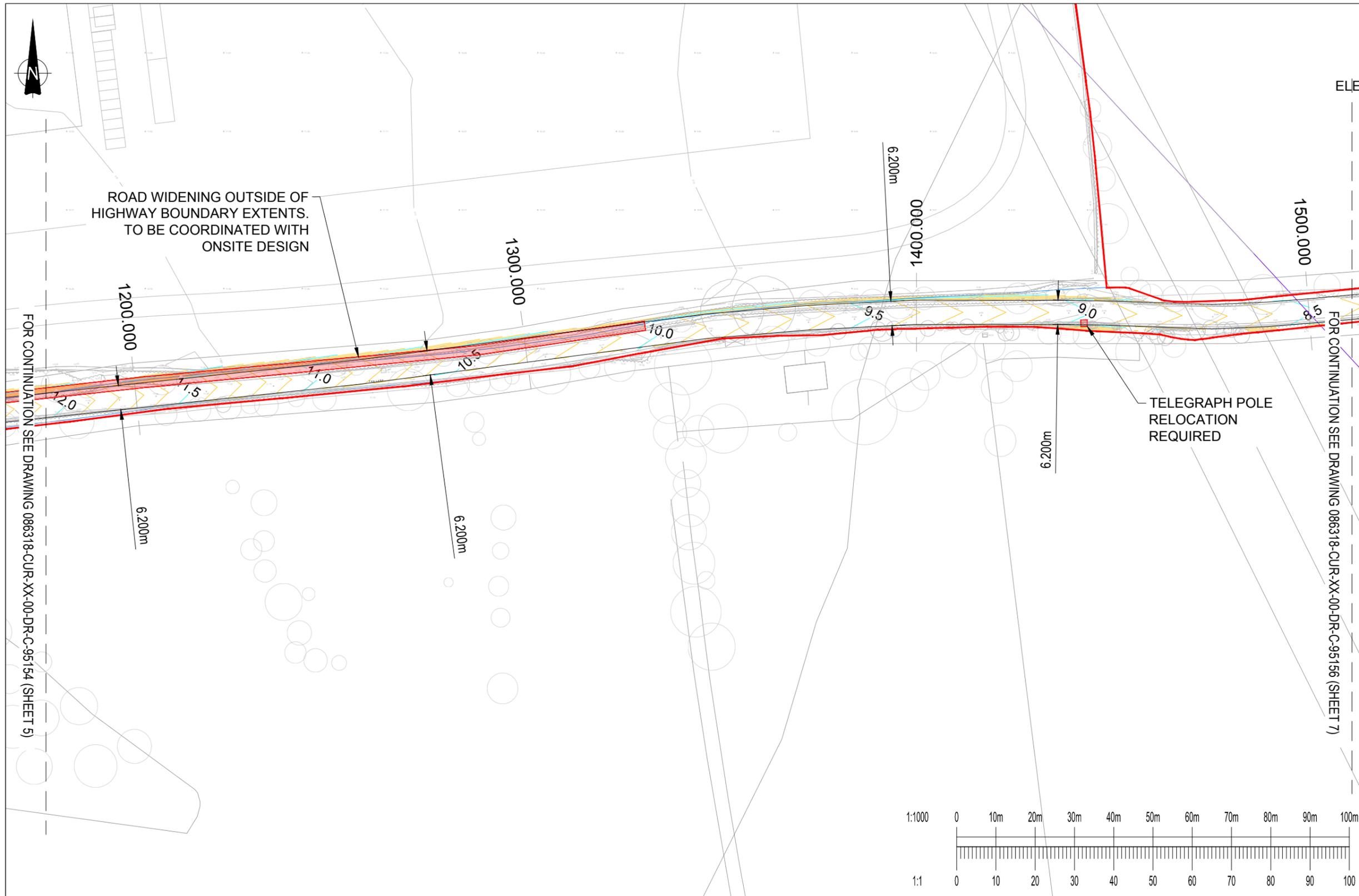


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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 5 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95154					P03

P03	REFERENCES UPDATED	23.02.26	HWH	TH
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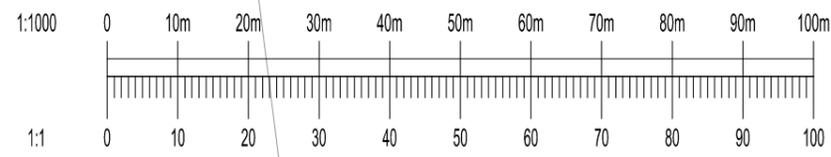
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7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95154 (SHEET 5)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95156 (SHEET 7)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
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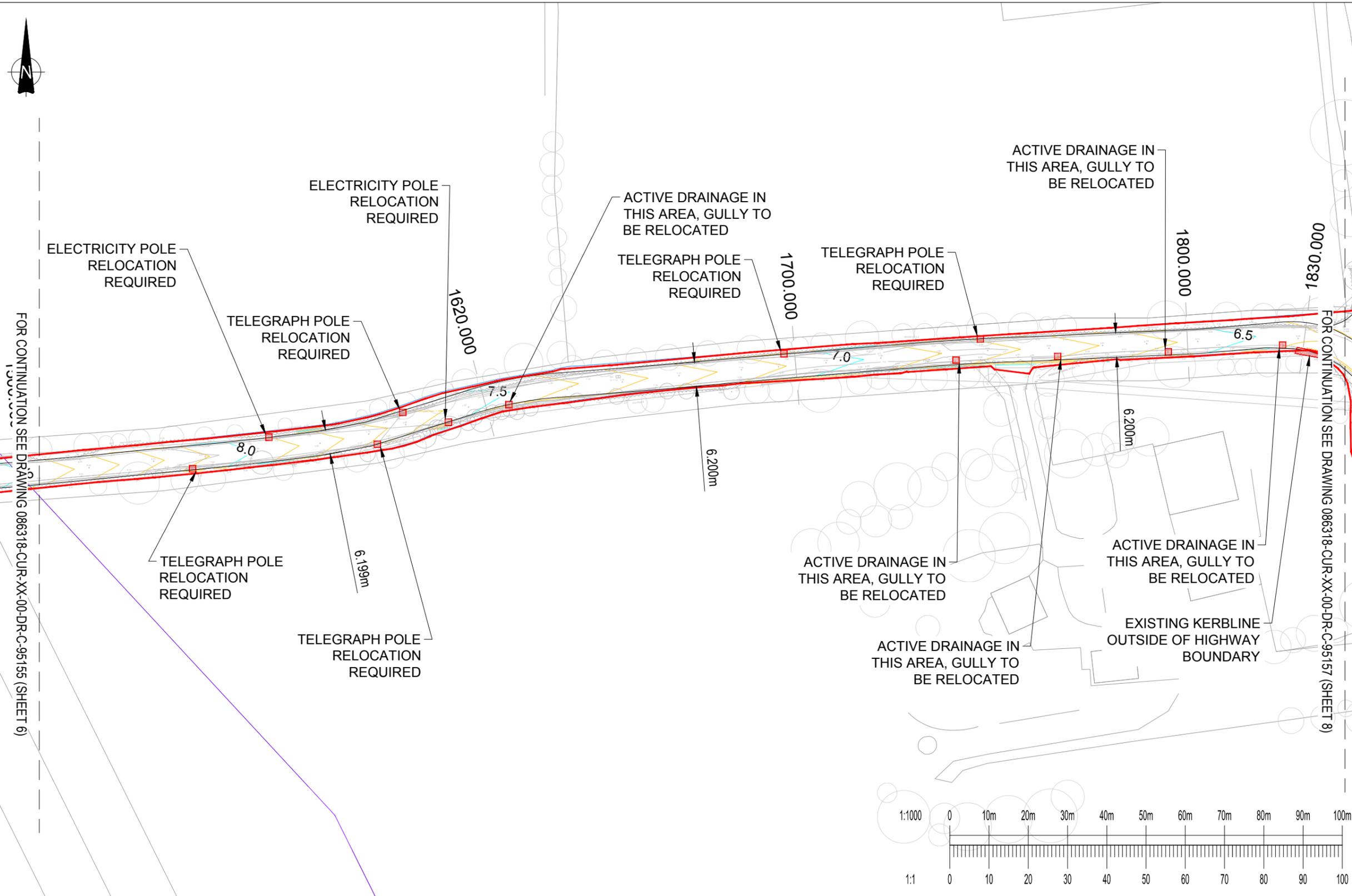
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 6 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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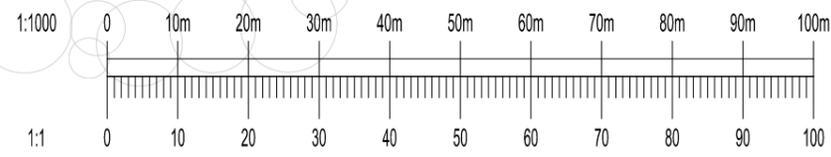
KEY

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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95155 (SHEET 6)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95157 (SHEET 8)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
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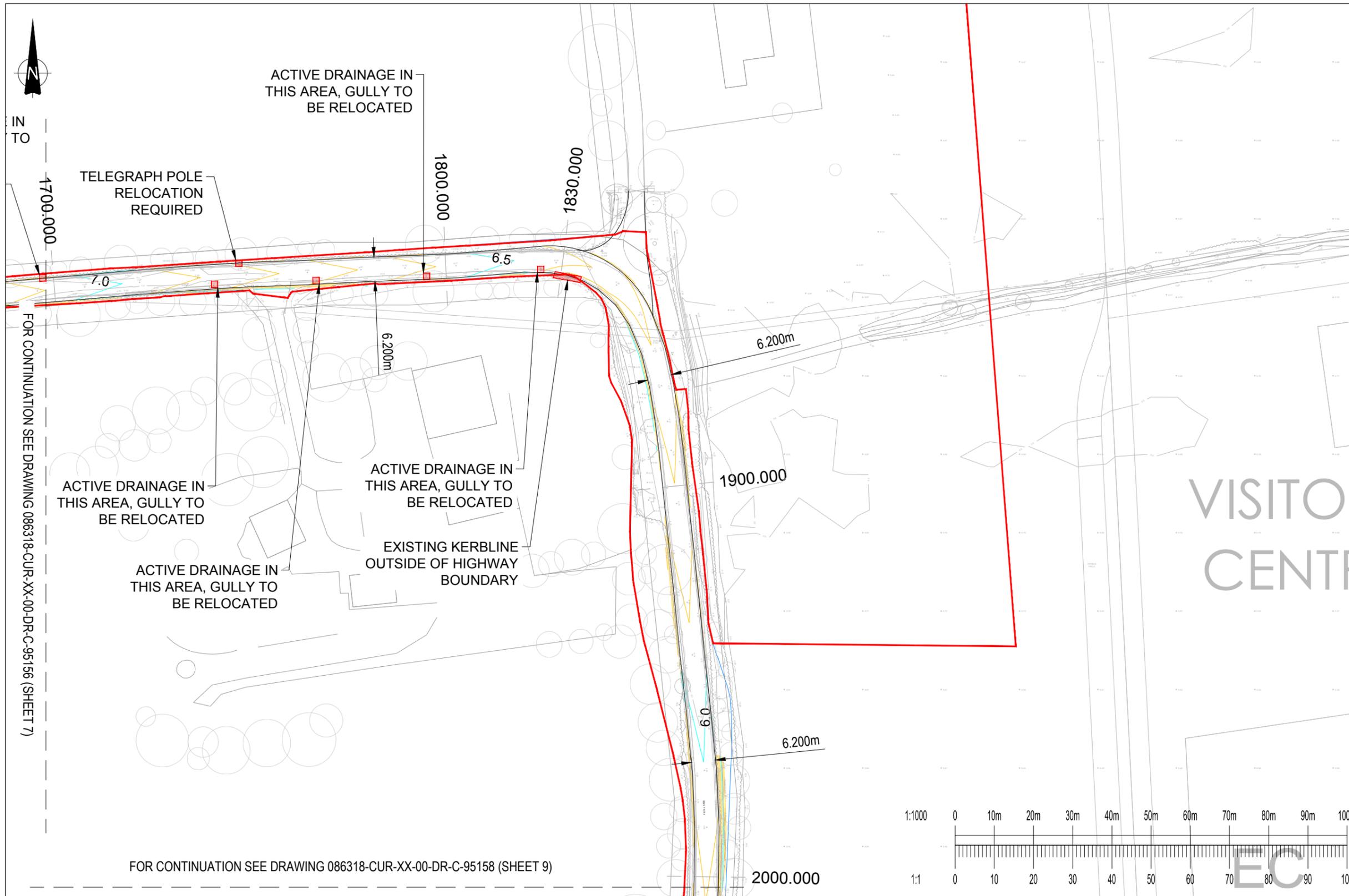
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 7 OF 11		Drawn By	NMH	Checked By TH
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Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95156 (SHEET 7)

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95158 (SHEET 9)

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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 8 OF 11		Drawn By	NMH	Checked By TH
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Rev:	Description:	Date:	By:	Chkd:



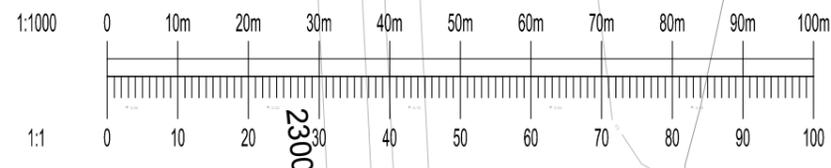
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 4. FOR GENERAL NOTES REFER TO DRAWING.
- KEY**
- HIGHWAY BOUNDARY
 - MAJOR CONTOUR (0.5m)
 - MINOR CONTOUR (0.1m)

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havering_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95159 (SHEET 10)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

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3. DESIGN SUBJECT TO ROAD SAFETY AUDIT.
4. DESIGN SUBJECT TO FURTHER SURVEYS REGARDING THE EXISTING DITCHES. DRAINAGE MAY BE REQUIRED FOLLOWING OUTCOME OF SURVEYS.

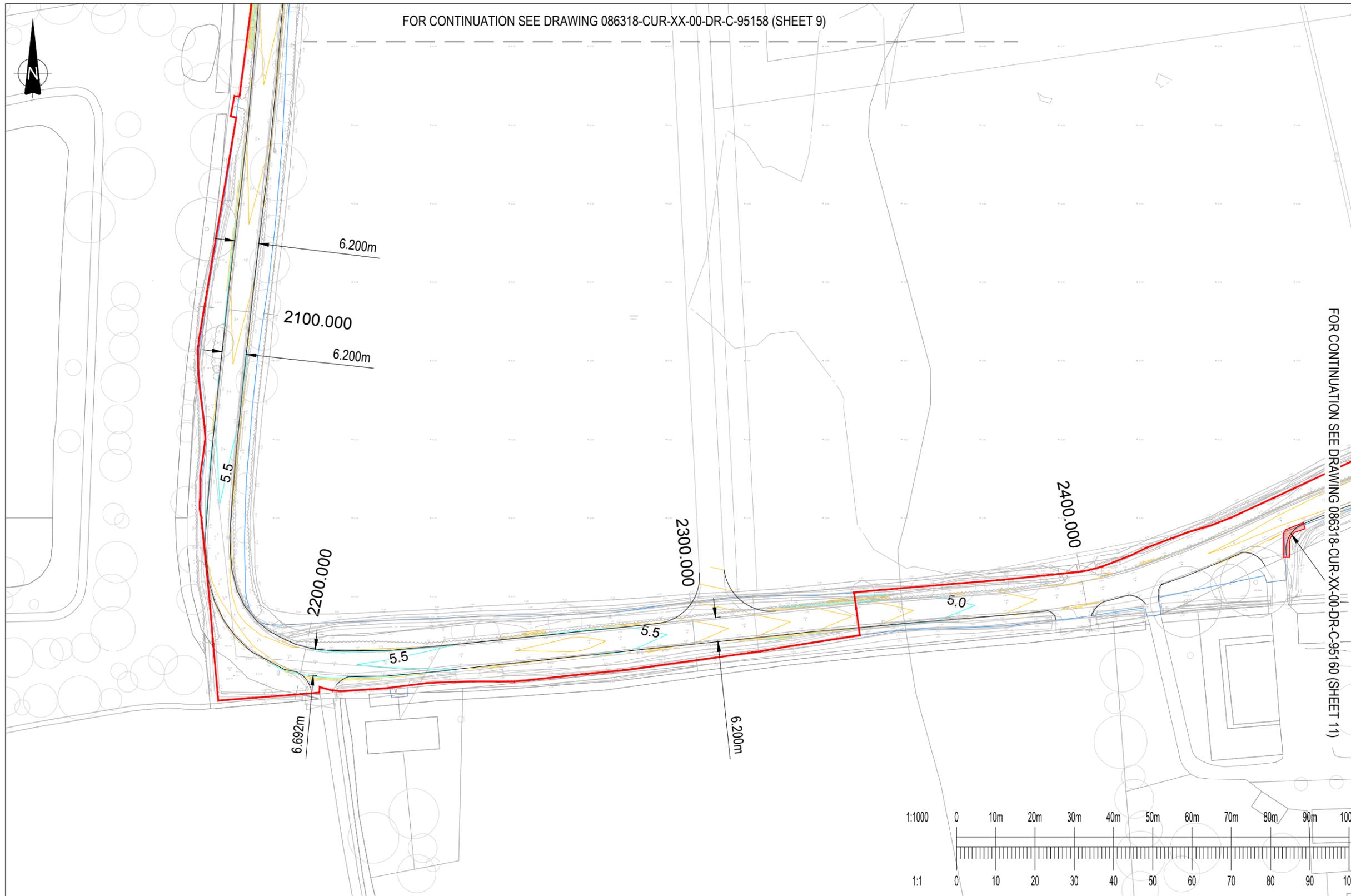


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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 9 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95158					P03

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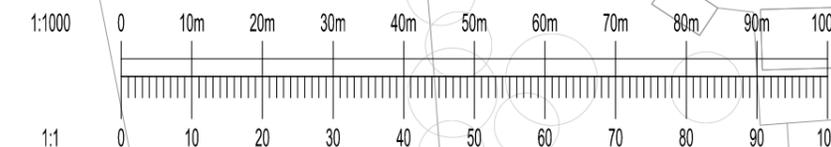
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KEY

	HIGHWAY BOUNDARY
	MAJOR CONTOUR (0.5m)
	MINOR CONTOUR (0.1m)

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havering_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
3. FOR FEN LANE ROAD WIDENING DRAWINGS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95400 TO 086318-CUR-XX-00-DR-C-95436
4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95160 (SHEET 11)



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

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4. DESIGN SUBJECT TO FURTHER SURVEYS REGARDING THE EXISTING DITCHES. DRAINAGE MAY BE REQUIRED FOLLOWING OUTCOME OF SURVEYS.

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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 10 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95159					P03

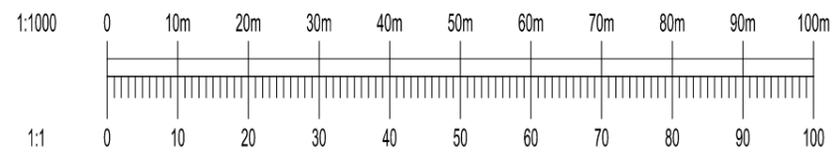


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KEY

	HIGHWAY BOUNDARY
	MAJOR CONTOUR (0.5m)
	MINOR CONTOUR (0.1m)

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4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
6. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
7. FOR FEN LANE DRAINAGE LAYOUT REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95085 TO 086318-CUR-XX-00-DR-C-95093



P03	REFERENCES UPDATED	23.02.26	HWH	TH
P02	SCALE, REFERENCES AND EXTENTS UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
Rev:	Description:	Date:	By:	Chkd:

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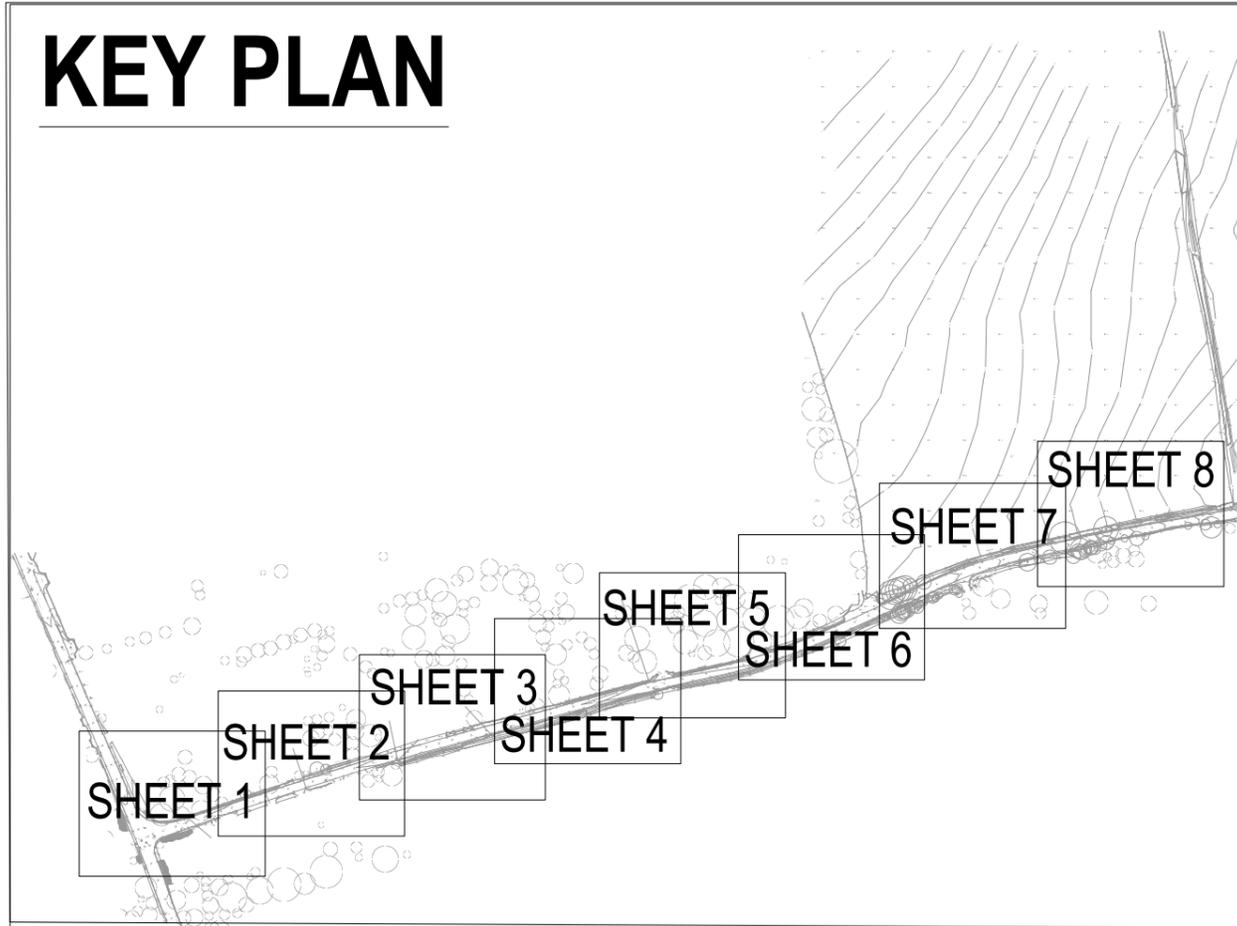
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	HIGHWAY CONTOURS SHEET 11 OF 11		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:1000		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95160					P03

Appendix 5e:

Fen Lane drainage drawings

KEY PLAN



KEY	
	125x150mm PCC BULLNOSED (BN) KERB (0mm UPSTAND).
	ROAD GULLY, 150Ø OUTLET PRECAST ROAD GULLY CHAMBER WITH DOUBLE TRIANGLE GULLY GRATING TYPE EN124/405, D450 TO SEWERS FOR ADOPTION 7th EDITION.
	HYDROROCKK® INFILTRATION BLOCKS WITH 600Ø PPIC WITH D400 ACCESS COVERS.
	PROPOSED WORKS BOUNDARY
	CARRIAGEWAY WIDENING FULL DEPTH CARRIAGEWAY CONSTRUCTION.
	EXISTING CARRIAGEWAY RE-SURFACING WEARING COURSE REPLACEMENT.
	SOFT LANDSCAPING EMBANKMENT

TO BE READ IN CONJUNCTION WITH:

1. TOPOGRAPHICAL SURVEY BASED ON SLR CONSULTING TOPOGRAPHICAL SURVEY DRAWING REF: 403.065936.00001.09.0_Havering_Topo_0325-A0L, DATED MARCH 2025
2. REFER TO CBA TREES ARBORCULTURAL CONSULTANCY REPORT FOR AGRICULTURAL IMPLICATIONS ASSESSMENT. REF:11656, DATED JAN 2026
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4. FOR CONSTRUCTION DETAILS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95067 TO 086318-CUR-XX-00-DR-C-95069
5. FOR HIGHWAY CONTOURS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95150 TO 086318-CUR-XX-00-DR-C-95160
6. FOR HIGHWAY LONGSECTIONS REFER TO CURTINS DRAWINGS 086318-CUR-XX-00-DR-C-95950 TO 086318-CUR-XX-00-DR-C-95961
7. FOR HIGHWAY CROSS SECTIONS REFER TO CURTINS DRAWING 086318-CUR-XX-00-DR-C-95850 TO 086318-CUR-XX-00-DR-C-95852
8. HYDROROCK ATTENUATION SIZING BASED ON ATTENUATING THE ADDITIONAL FOOTWAY. HYDROROCK TO DISCHARGE VIA INFILTRATION BASED ON AN ASSUMED INFILTRATION RATE OF 1x10⁻⁶m/s. HYDROROCK SIZING WILL BE MODIFIED IF A MINIMUM 1.2M FOOTWAY WIDTH REQUIRED WHERE 1.5M FOOTWAY IS NOT FEASIBLE (SEE SHEET 3 OF 8)

DESIGN RISKS AND ASSUMPTIONS

THE FOLLOWING DESIGN NOTES AND ASSUMPTIONS HAVE BEEN MADE IN THE PRODUCTION OF THIS DRAWING:

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2. DESIGN SUBJECT TO CONFIRMATION FROM THE LOCAL PLANNING AUTHORITY
4. DESIGN SUBJECT TO ROAD SAFETY AUDIT.
5. COORDINATION REQUIRED WITH UTILITIES

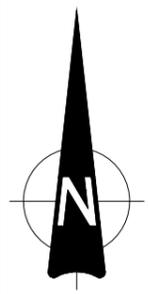
P03	NOTE 9 UPDATED	23.02.26	HWH	TH
P02	NOTES UPDATED	23.02.26	HWH	TH
P01	PRELIMINARY ISSUE	17.02.26	ER	TH
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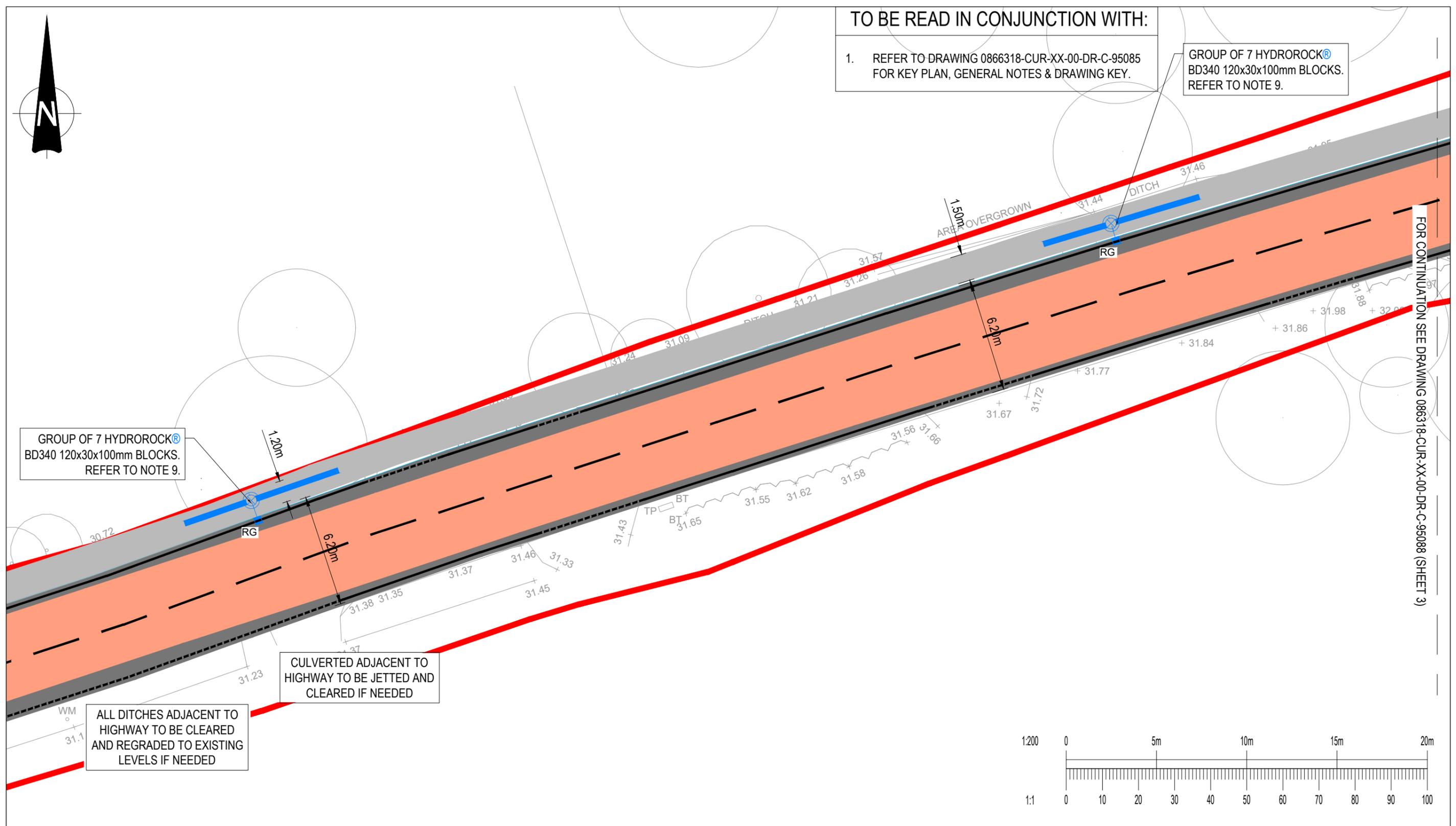
Project:	EAST HAVERING		Status:	S2	
Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT OVERVIEW		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:200		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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GROUP OF 7 HYDROROCK®
BD340 120x30x100mm BLOCKS.
REFER TO NOTE 9.

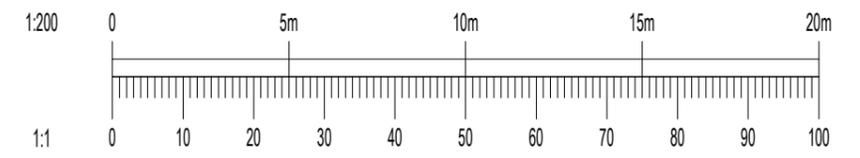


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CULVERTED ADJACENT TO
HIGHWAY TO BE JETTED AND
CLEARED IF NEEDED

ALL DITCHES ADJACENT TO
HIGHWAY TO BE CLEARED
AND REGRADED TO EXISTING
LEVELS IF NEEDED



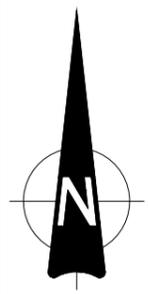
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Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 2 of 8)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3	1:200	
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086318 - CUR - XX - 00 - DR - C - 95087					P01



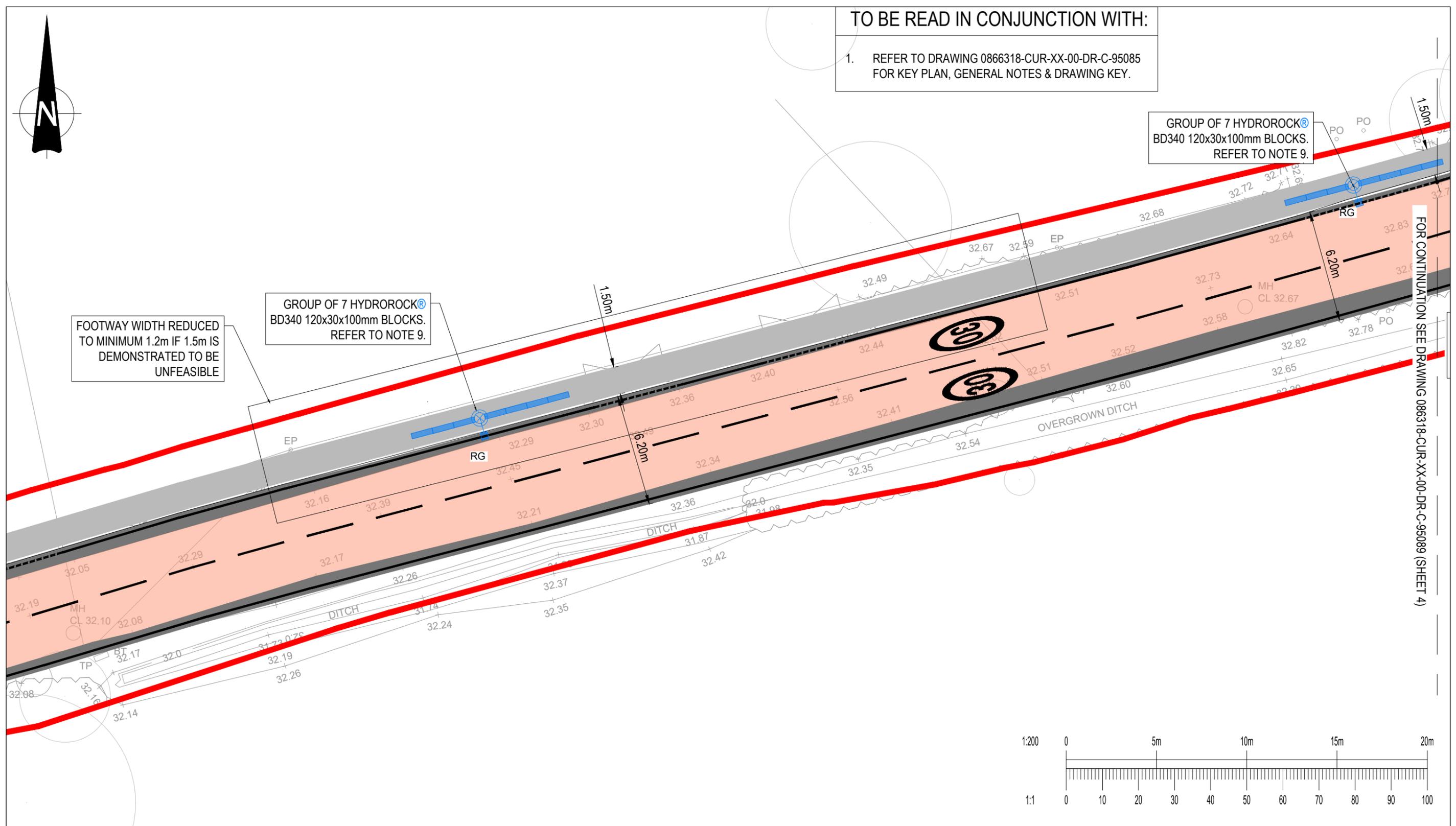
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1. REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95085 FOR KEY PLAN, GENERAL NOTES & DRAWING KEY.

GROUP OF 7 HYDROROCK®
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REFER TO NOTE 9.

FOOTWAY WIDTH REDUCED
TO MINIMUM 1.2m IF 1.5m IS
DEMONSTRATED TO BE
UNFEASIBLE

GROUP OF 7 HYDROROCK®
BD340 120x30x100mm BLOCKS.
REFER TO NOTE 9.



FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95089 (SHEET 4)

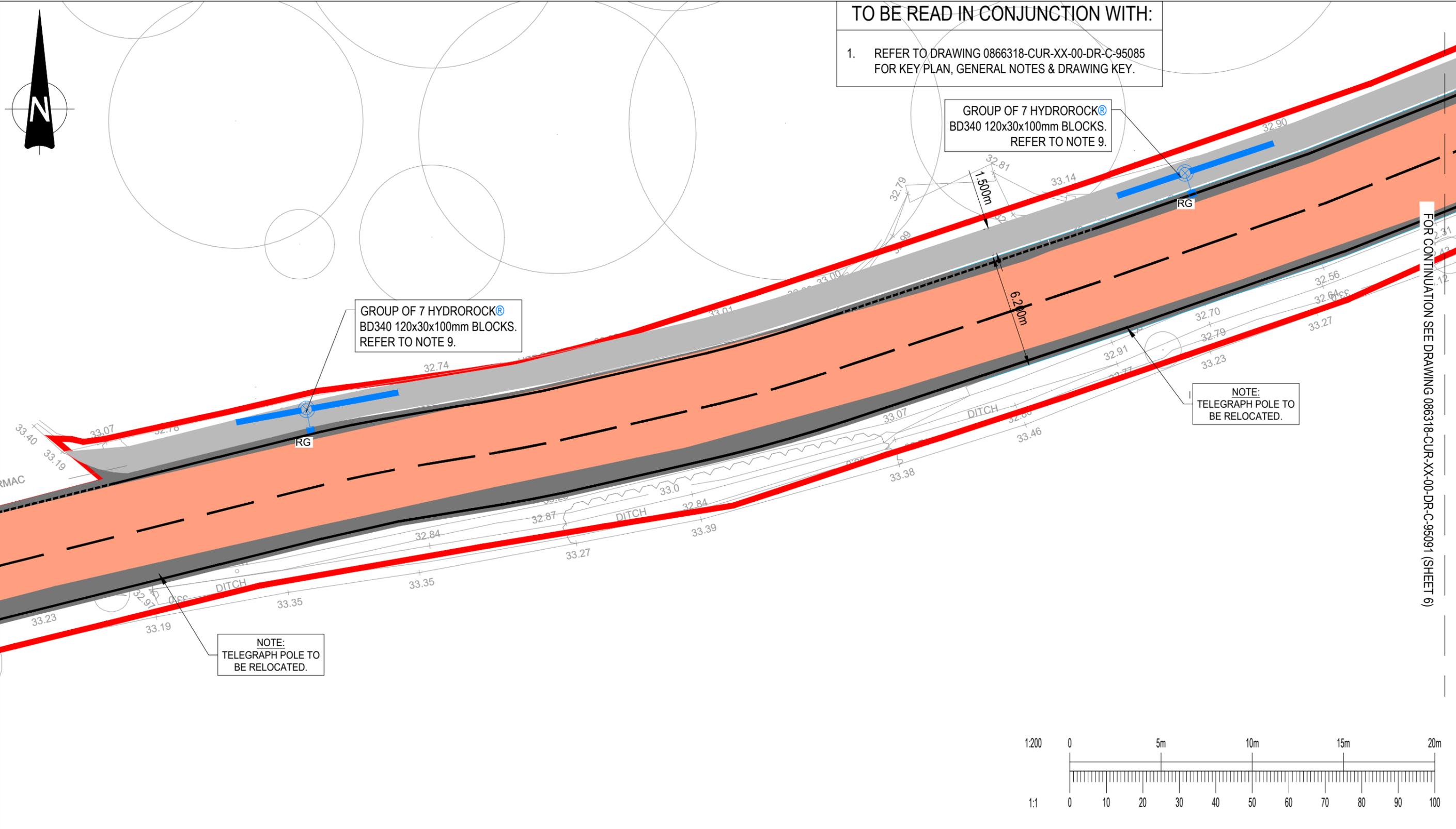
P03	FOOTWAY & HYDROCK NLOVKD UPA	23.02.26	HWH	TH
P02	NOTE ADDED REGARDING 1.2m FOOTWAY	23.02.26	HWH	TH
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Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 3 of 8)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3	1:200	
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	086318 - CUR - XX - 00 - DR - C - 95088				P03



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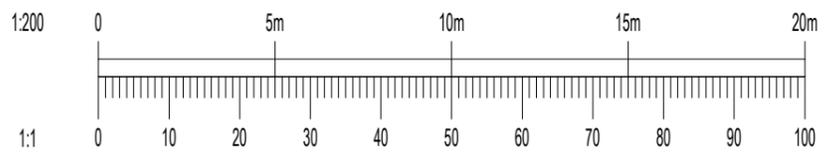
- REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95085 FOR KEY PLAN, GENERAL NOTES & DRAWING KEY.

GROUP OF 7 HYDROROCK®
BD340 120x30x100mm BLOCKS.
REFER TO NOTE 9.

GROUP OF 7 HYDROROCK®
BD340 120x30x100mm BLOCKS.
REFER TO NOTE 9.

NOTE:
TELEGRAPH POLE TO
BE RELOCATED.

NOTE:
TELEGRAPH POLE TO
BE RELOCATED.



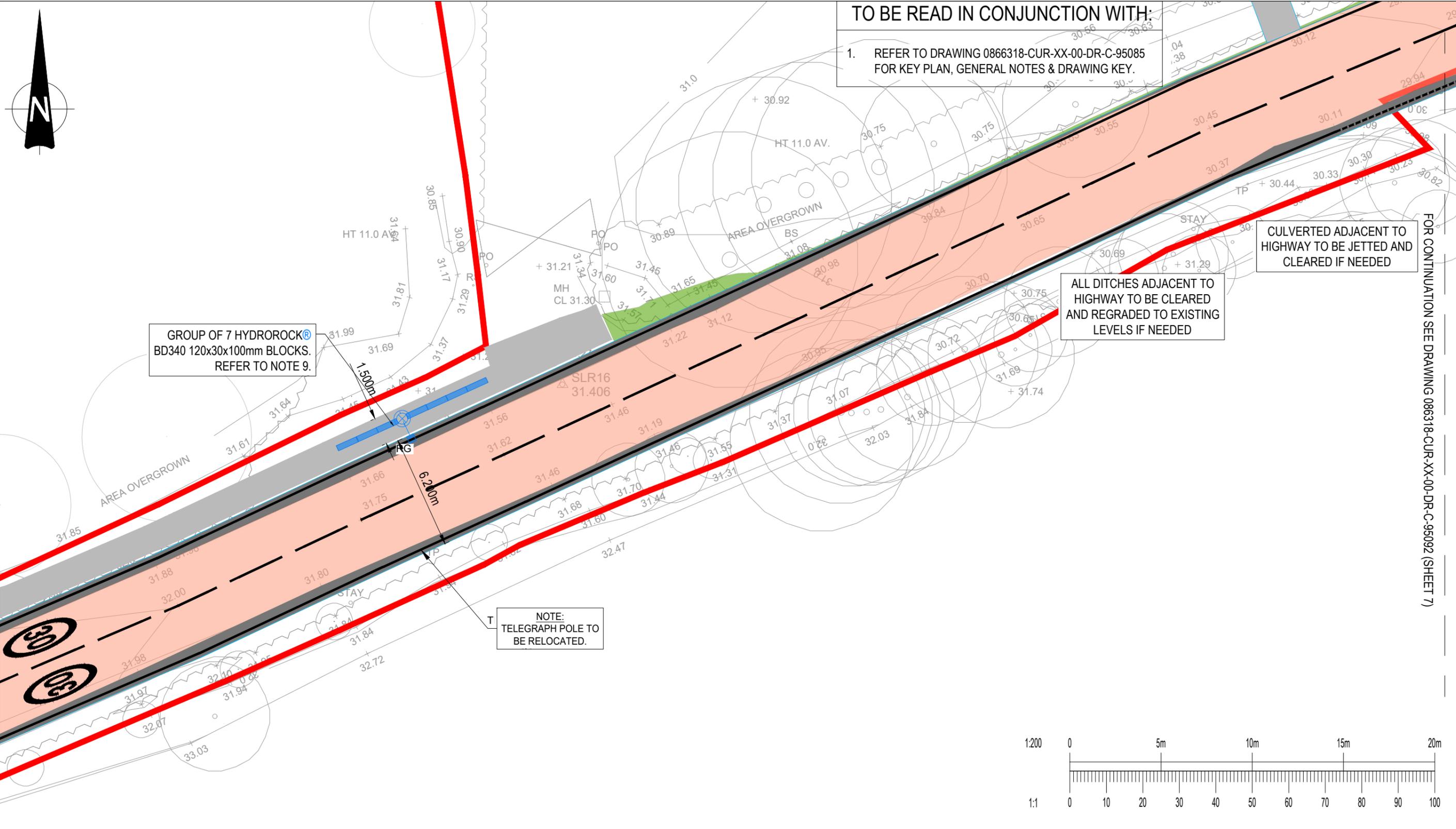
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Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 5 of 8)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3	1:200	
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95090					P01



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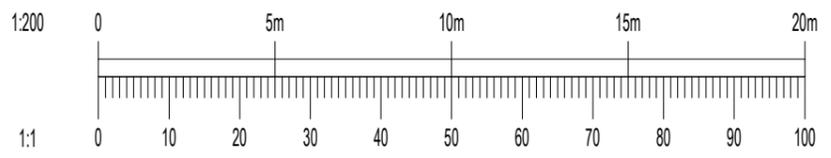
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 REFER TO NOTE 9.

ALL DITCHES ADJACENT TO
 HIGHWAY TO BE CLEARED
 AND REGRADED TO EXISTING
 LEVELS IF NEEDED

CULVERTED ADJACENT TO
 HIGHWAY TO BE JETTED AND
 CLEARED IF NEEDED

NOTE:
 TELEGRAPH POLE TO
 BE RELOCATED.

FOR CONTINUATION SEE DRAWING 086318-CUR-XX-00-DR-C-95092 (SHEET 7)



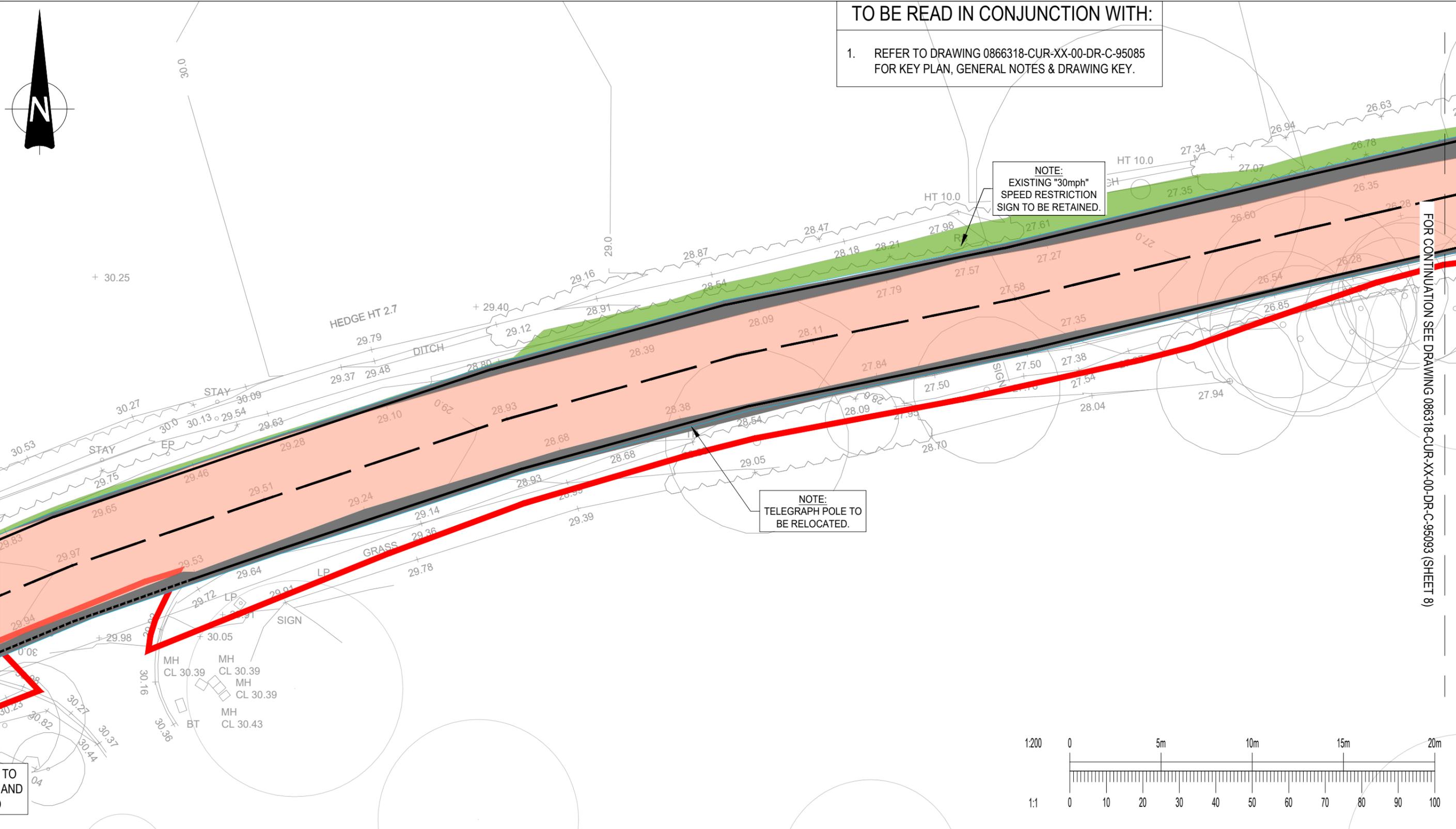
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Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 6 of 8)		Drawn By	NMH	Checked By TH
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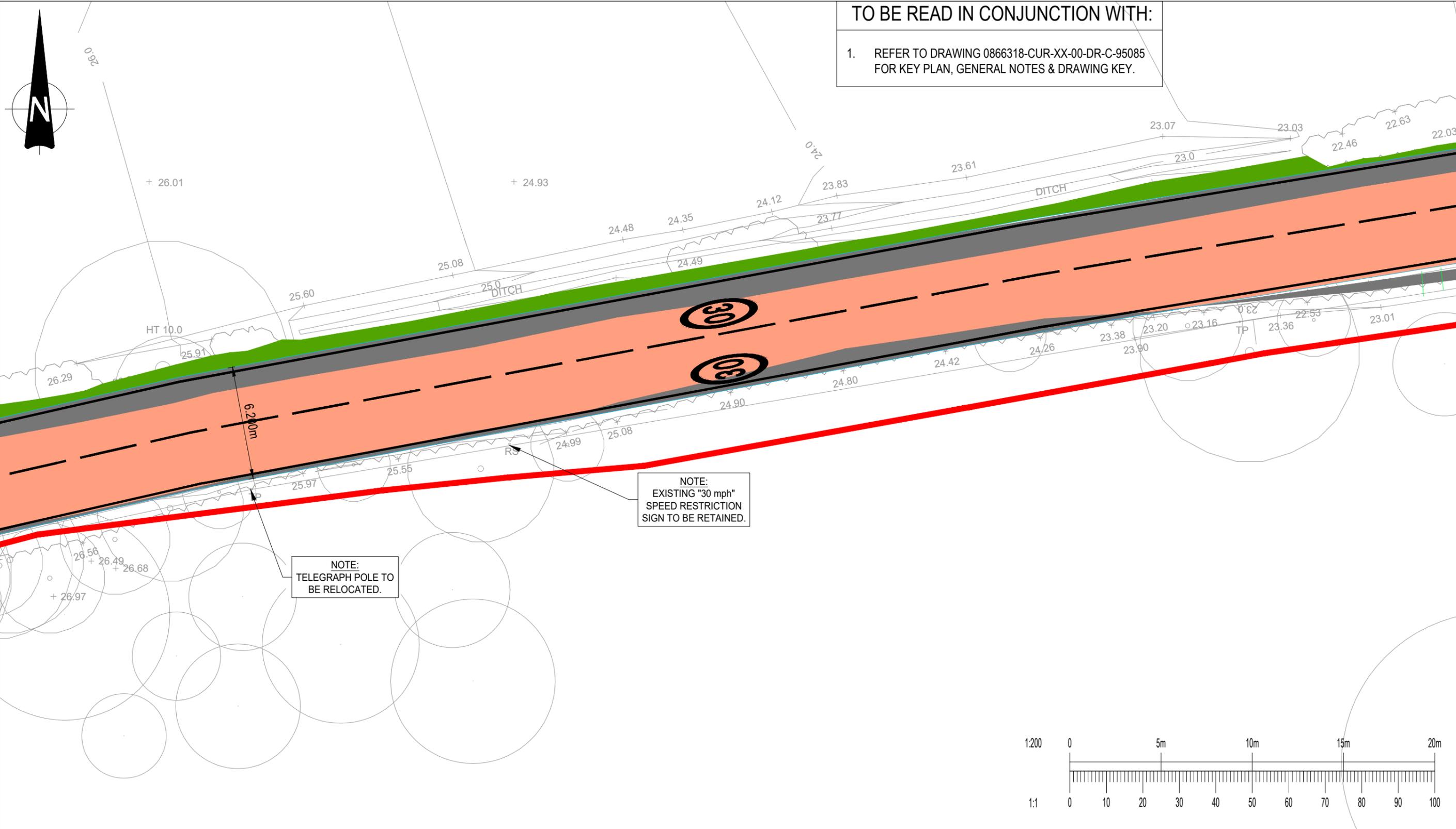
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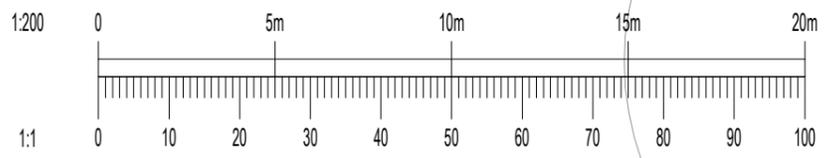
Project:	EAST HAVERING		Status:	S2	
Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 7 of 8)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scale	@ A3 1:200	
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95092					P01



TO BE READ IN CONJUNCTION WITH:
 1. REFER TO DRAWING 0866318-CUR-XX-00-DR-C-95085 FOR KEY PLAN, GENERAL NOTES & DRAWING KEY.

NOTE:
 EXISTING "30 mph"
 SPEED RESTRICTION
 SIGN TO BE RETAINED.

NOTE:
 TELEGRAPH POLE
 TO BE RELOCATED.



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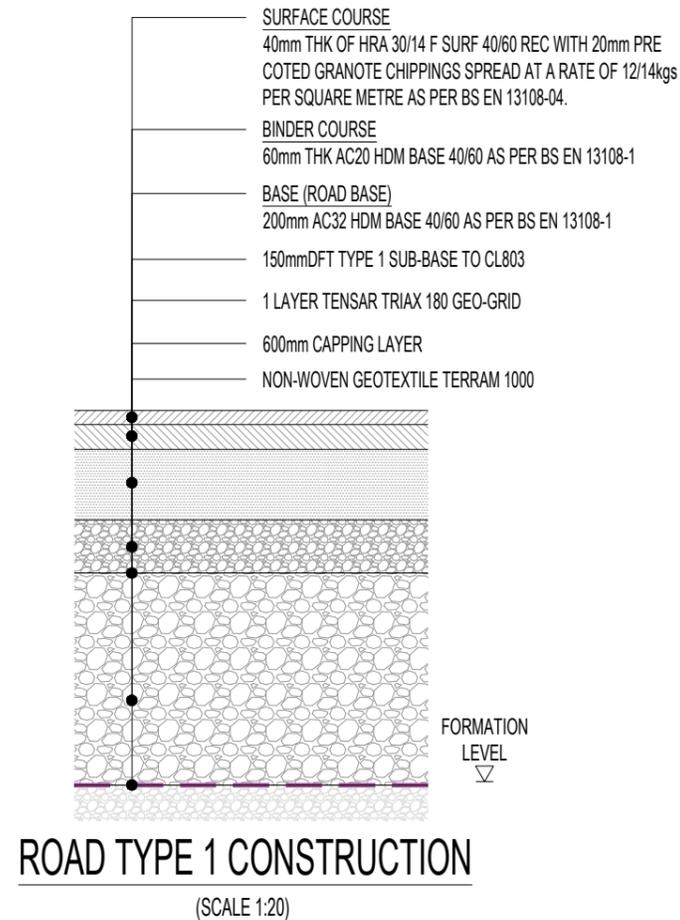
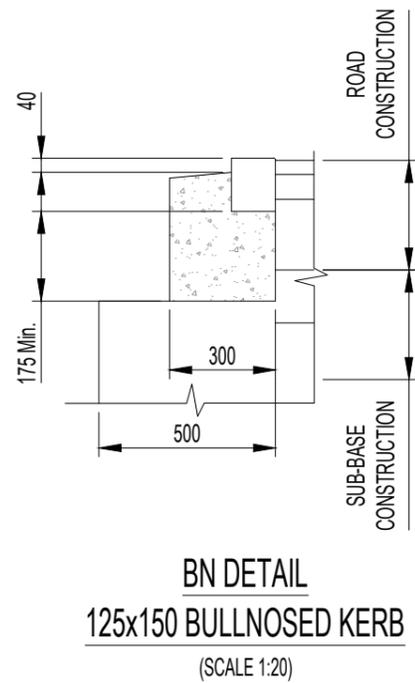
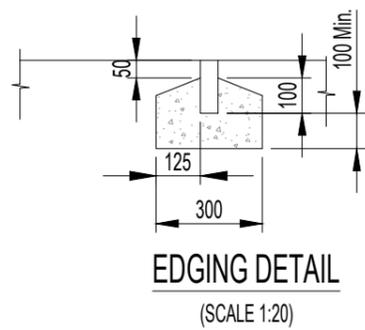
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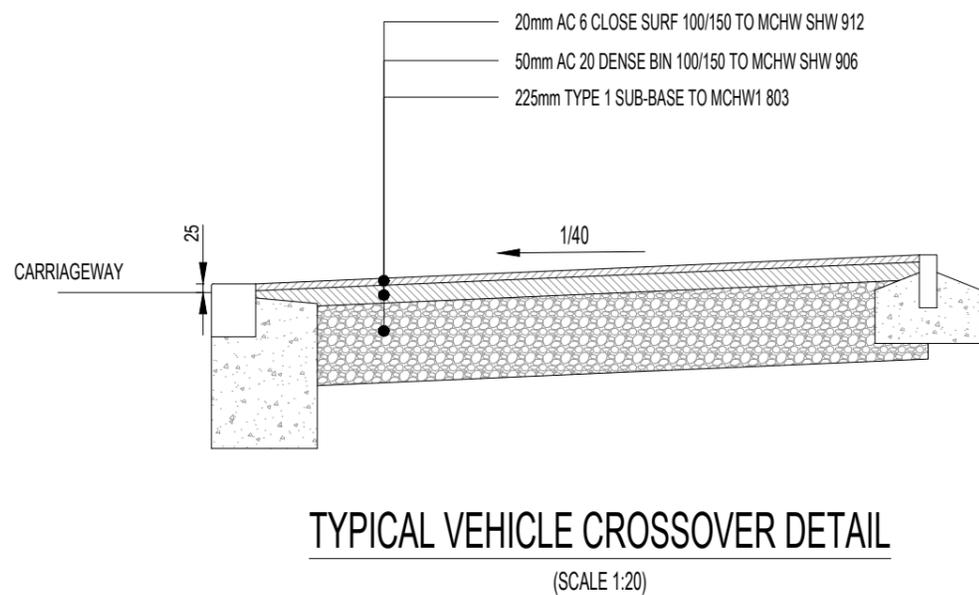
Project:	EAST HAVERING		Status:	S2	
Drg Title:	FEN LANE ROAD WIDENING DRAINAGE LAYOUT (SHEET 8 of 8)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scale @ A3	1:200	
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
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Appendix 5f:

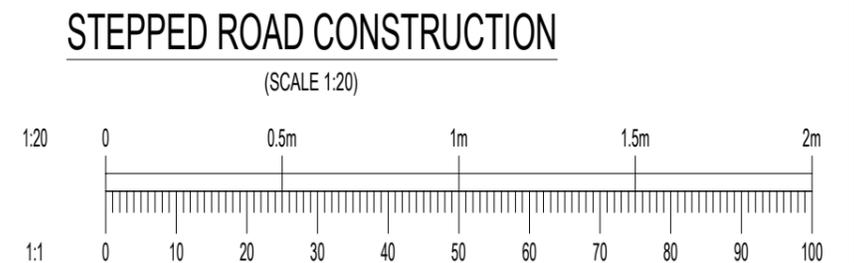
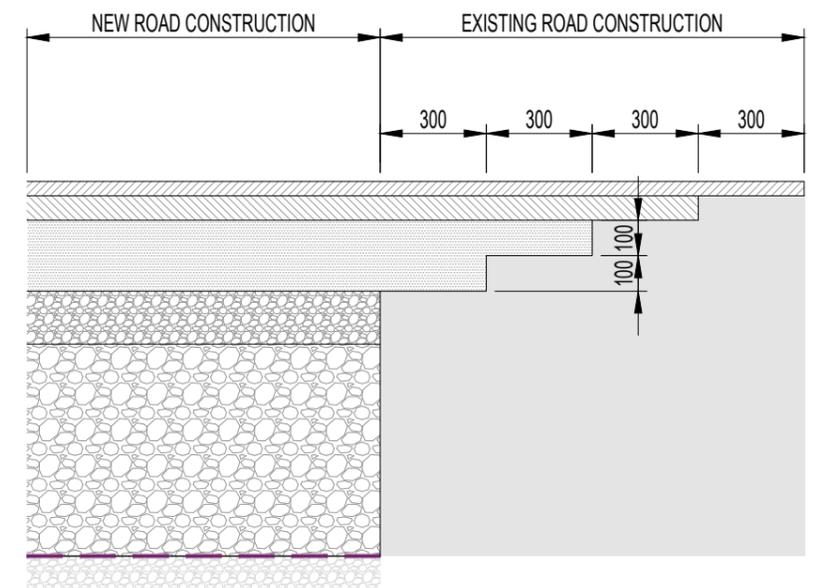
Construction detail drawing



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.



CARRIAGEWAY CONSTRUCTION			
	OPTION 1		OPTION 2
CBR% VALUE	FURTHER DISCUSSION NECESSARY	SUB-BASE	SUB-BASE
<2	CAPPING	SUB-BASE	SUB-BASE
2	600	150	-
3	350	150	300
4	300	150	270
5	250	150	230
8	210	150	190
10	180	150	180
15+	-	150	150



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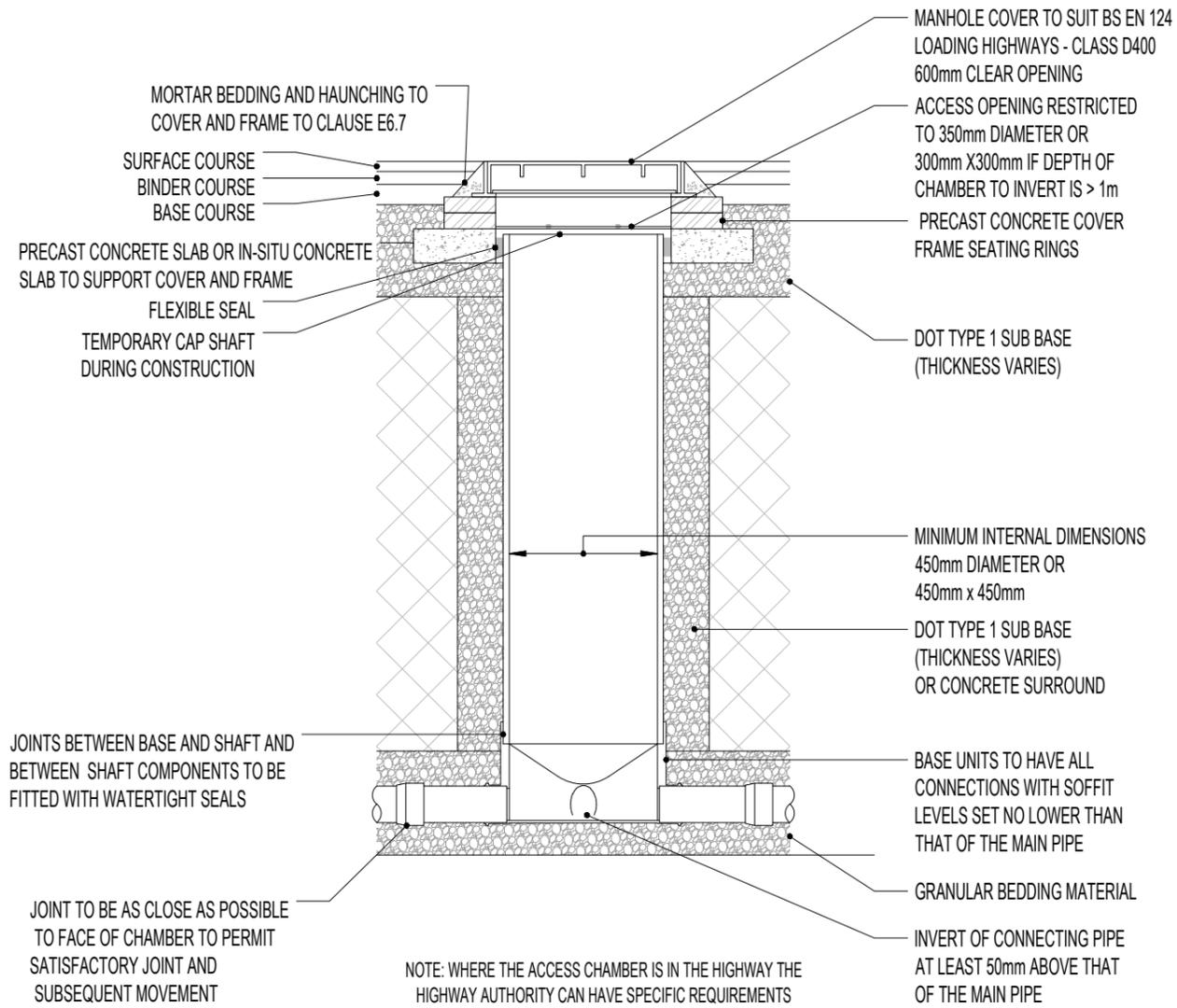
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Project:	EAST HAVERING		Status:	S2	
Drg Title:	CONSTRUCTION DETAILS (SHEET 1 OF 3)		Drawn By	NMH	Checked By TH
			Designed By	NMH	Date 17.02.26
			Scales @ A3 1:20		
Project No - Originator - Function - Spatial - Form - Discipline - Number					Revision
086318 - CUR - XX - 00 - DR - C - 95067					P01

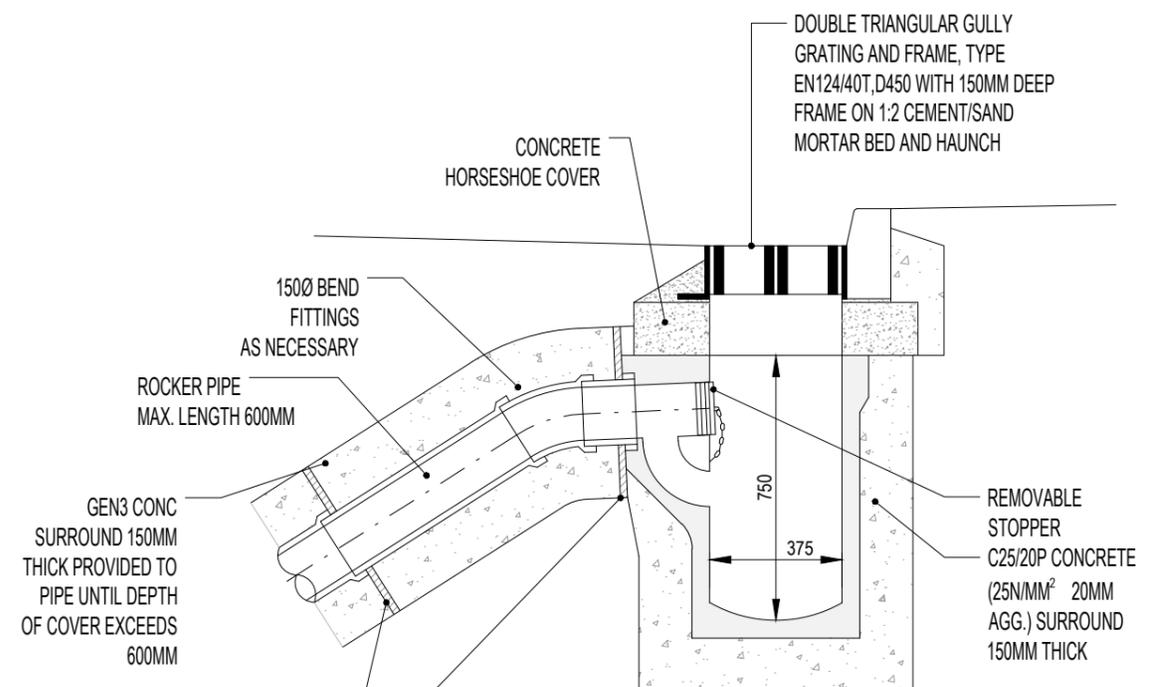
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
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TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3
(FLEXIBLE MATERIAL DETAIL)

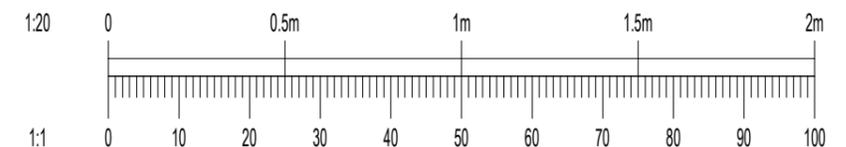
MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3m IN AREAS SUBJECT TO VEHICLE LOADING, NON-ENTRY

(SCALE 1:20)



ROAD GULLY DETAIL

(SCALE 1:20)



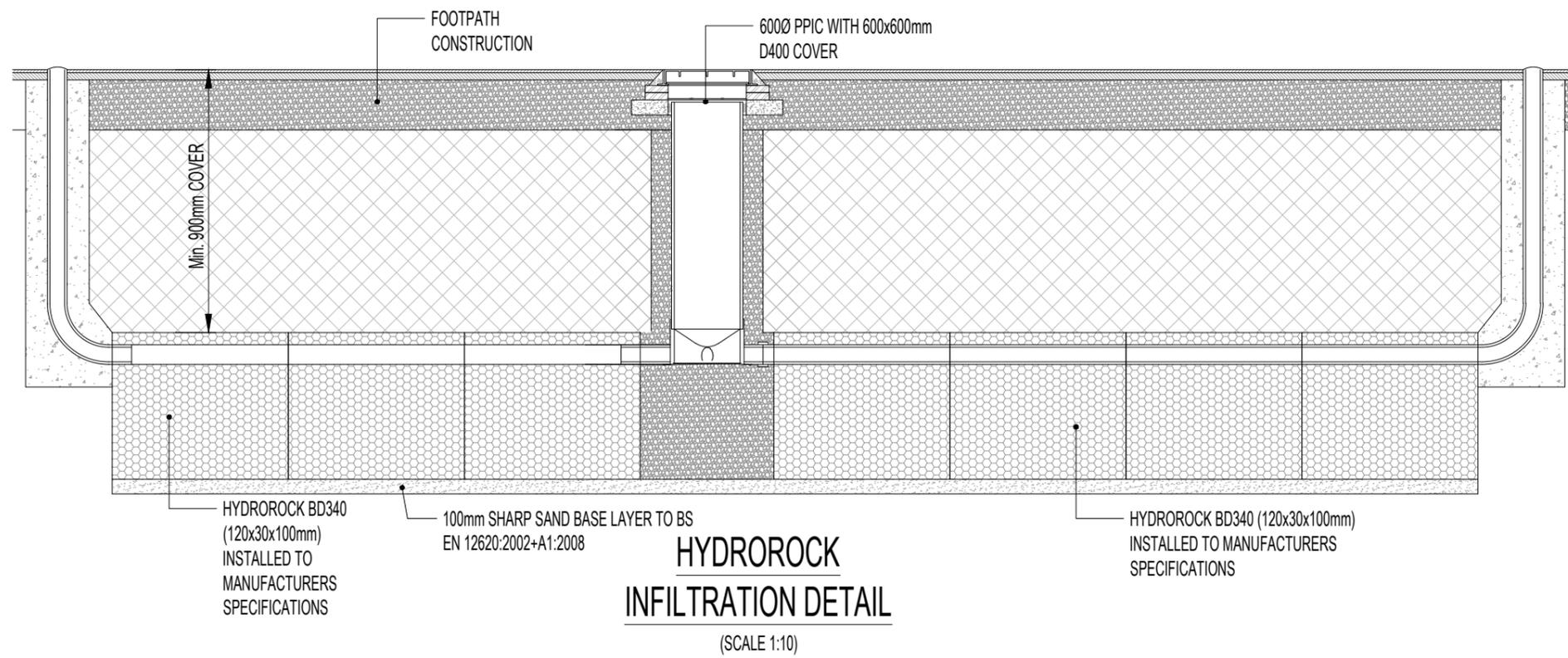
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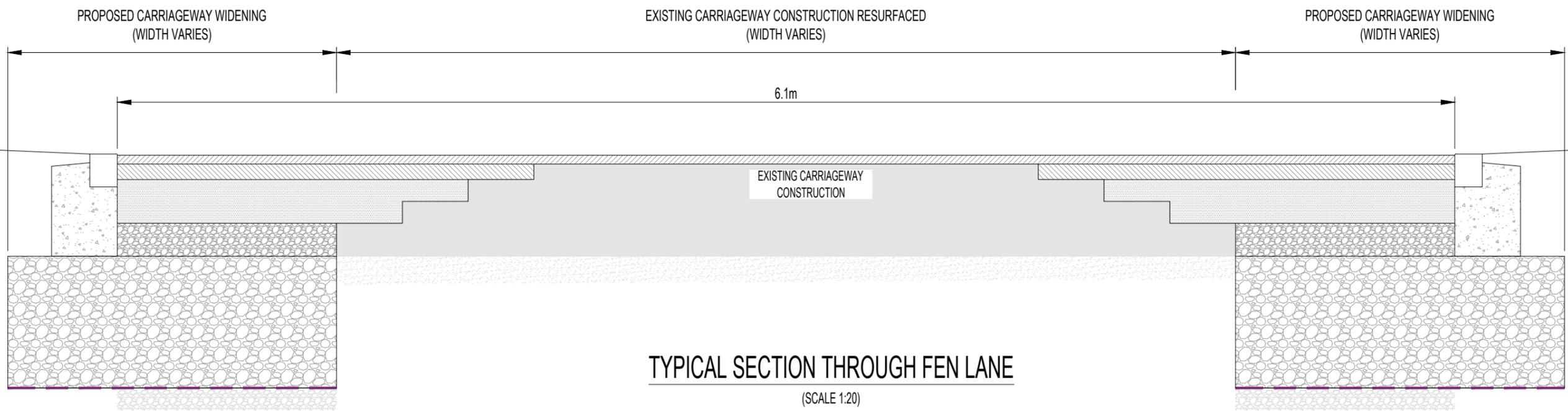
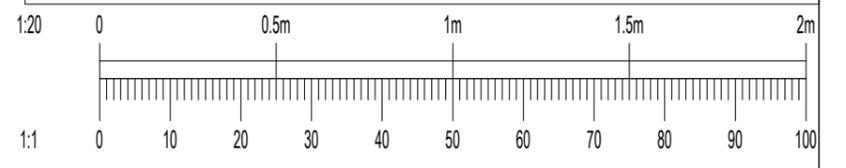
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Project: EAST HAVERING		Status: S2	
Drg Title: CONSTRUCTION DETAILS (SHEET 2 OF 3)			
Drawn By	NMH	Checked By	TH
Designed By	NMH	Date	17.02.26
Scales @ A3 1:20			
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Project: EAST HAVERING		Status: S2	
Drg Title: CONSTRUCTION DETAILS (SHEET 3 OF 3)		Drawn By: NMH	Checked By: TH
		Designed By: NMH	Date: 17.02.26
		Scales @ A3: N/A	
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