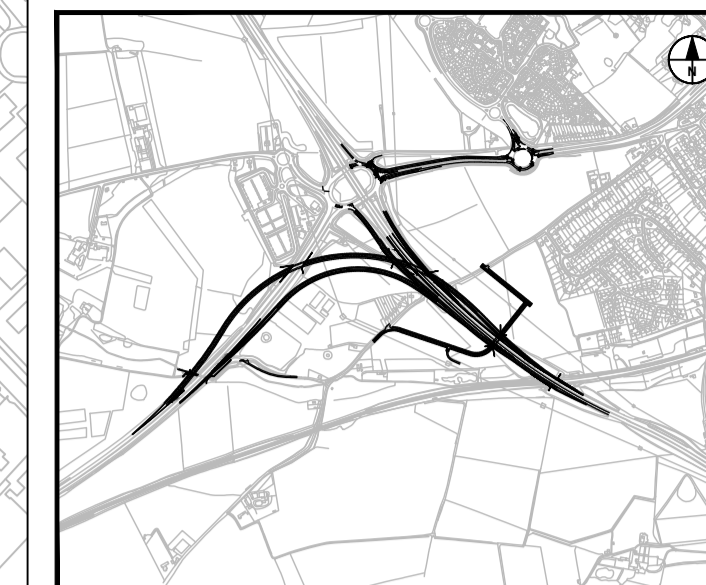
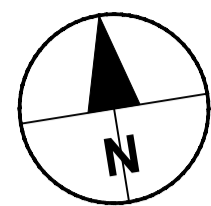


List of Appendices

- Appendix G – **Single Option Drawing**
- Appendix H – **Output of Analysis Merge/Diverge Single Option**
- Appendix I – **Departures from Standards Location Plan**
- Appendix J – **NMU Routes Plan**
- Appendix K – **Land Take/Ownership Drawing**
- Appendix L – **Structures Drawings – Single Option**

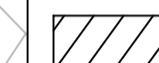

Appendix G – Single Option Drawing

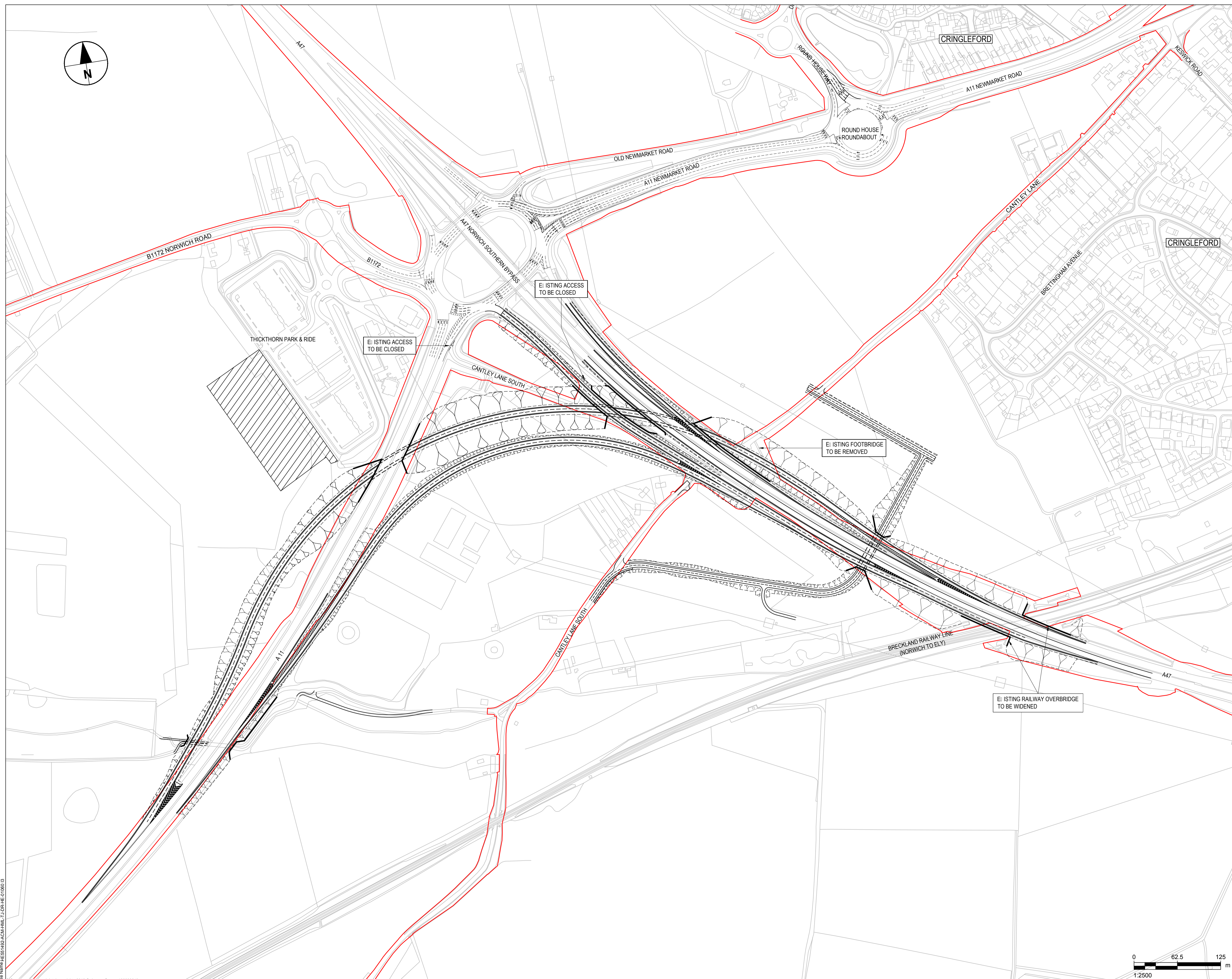




KEY LOCATION PLAN
SCALE 1:25000

KEY

-  POTENTIAL FUTURE PARK & RIDE EXPANSION
-  EXISTING HIGHWAY BOUNDARY



Revision Details	By	Date	Suffix
A47 WESTBOUND OFF-SLIP ALIGNMENT AMENDED. AMEY LOGO REMOVED.	PJB	07-02-17	I3
A11(N) TO A47(E) LINK ROAD RE-ALIGNED. STRUCTURES RE-POSITIONED AND AMENDED. PARK & RIDE ACCESS REMOVED. IMPROVEMENTS TO B1172 REMOVED.	PJB	06-02-17	I2
DRAWING TITLE REVISED. A47 DIVERGE AND SUCCESSIVE MERGES AMENDED. A11 MERGE AMENDED. A11 ACCESS TO PARK ADDED. CANTLEY LANE LINK ADDED. DEVELOPER DO MINIMUM SCHEME ADDED. B1172 IMPROVED. ROUNDHOUSE WAY IMPROVED.	PJB	17-01-17	I1

INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW



Project Title
A47 CORRIDOR PCF STAGE 2

Drawing Title
A47/A11 THICKTHORN SINGLE OPTION

Designed	Drawn	Checked	Approved	Date
R	PJB	EH	R	25-11-2016

Scale @ A1
1:2500

Suitability

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Drawing Number
HE551492-ACM-HML-TJ-DR-HE-01060

Rev
I3



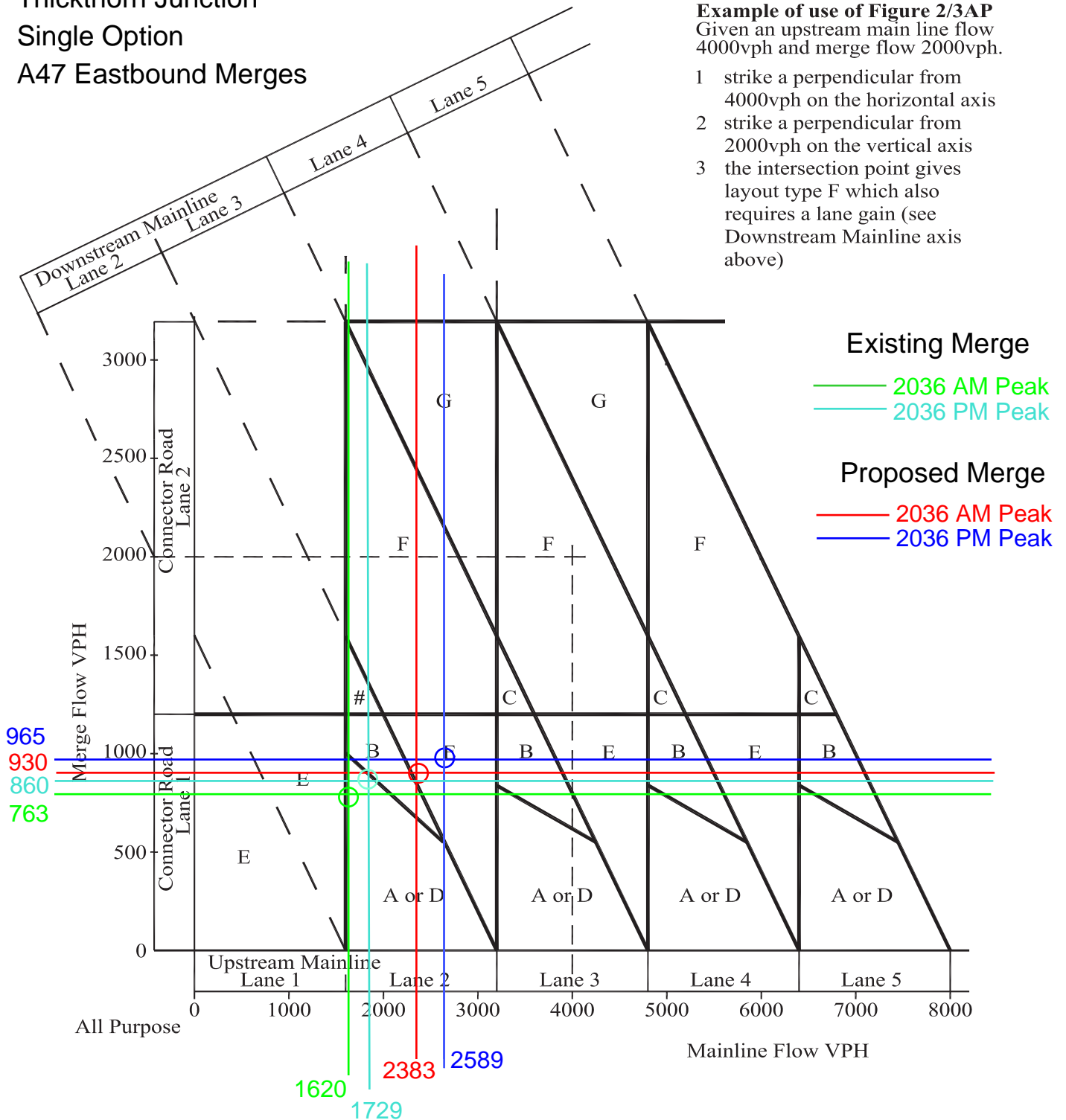
Appendix H – Output of Analysis Merge/Diverge Single Option



Thickthorn Junction
Single Option
A47 Eastbound Merges

Example of use of Figure 2/3AP
Given an upstream main line flow 4000vph and merge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type F which also requires a lane gain (see Downstream Mainline axis above)



Notes:

Area of uncertainty – In this area the choice will depend on the downstream provision. If there is a lane gain then use Layout E or F.

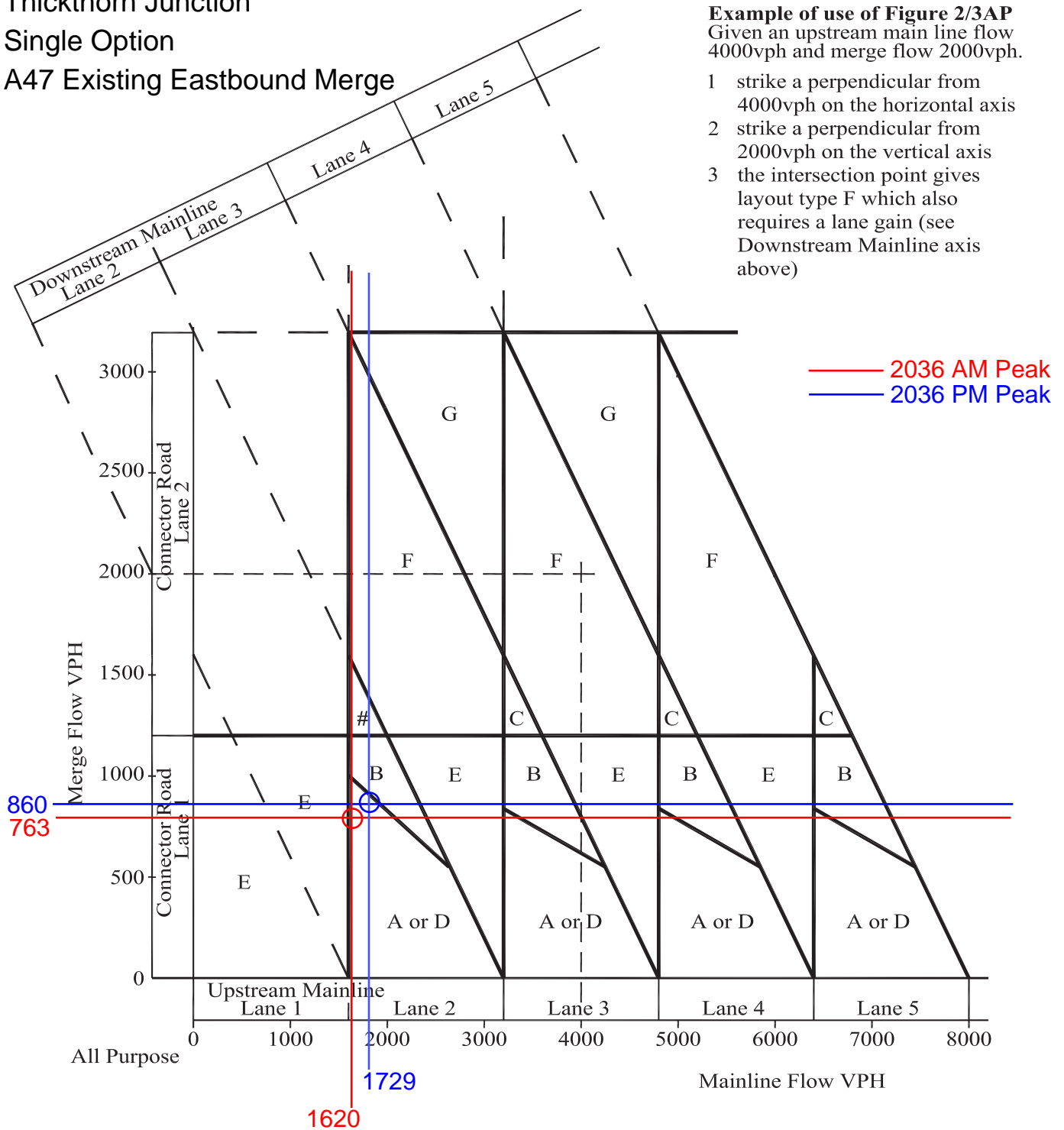
See paragraph 2.29 and the example above, for explanation of the usage of this diagram.

Figure 2/3 AP All-Purpose Road Merging Diagram

Thickthorn Junction
Single Option
A47 Existing Eastbound Merge

Example of use of Figure 2/3AP
Given an upstream main line flow 4000vph and merge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type F which also requires a lane gain (see Downstream Mainline axis above)



Notes:

Area of uncertainty – In this area the choice will depend on the downstream provision. If there is a lane gain then use Layout E or F.

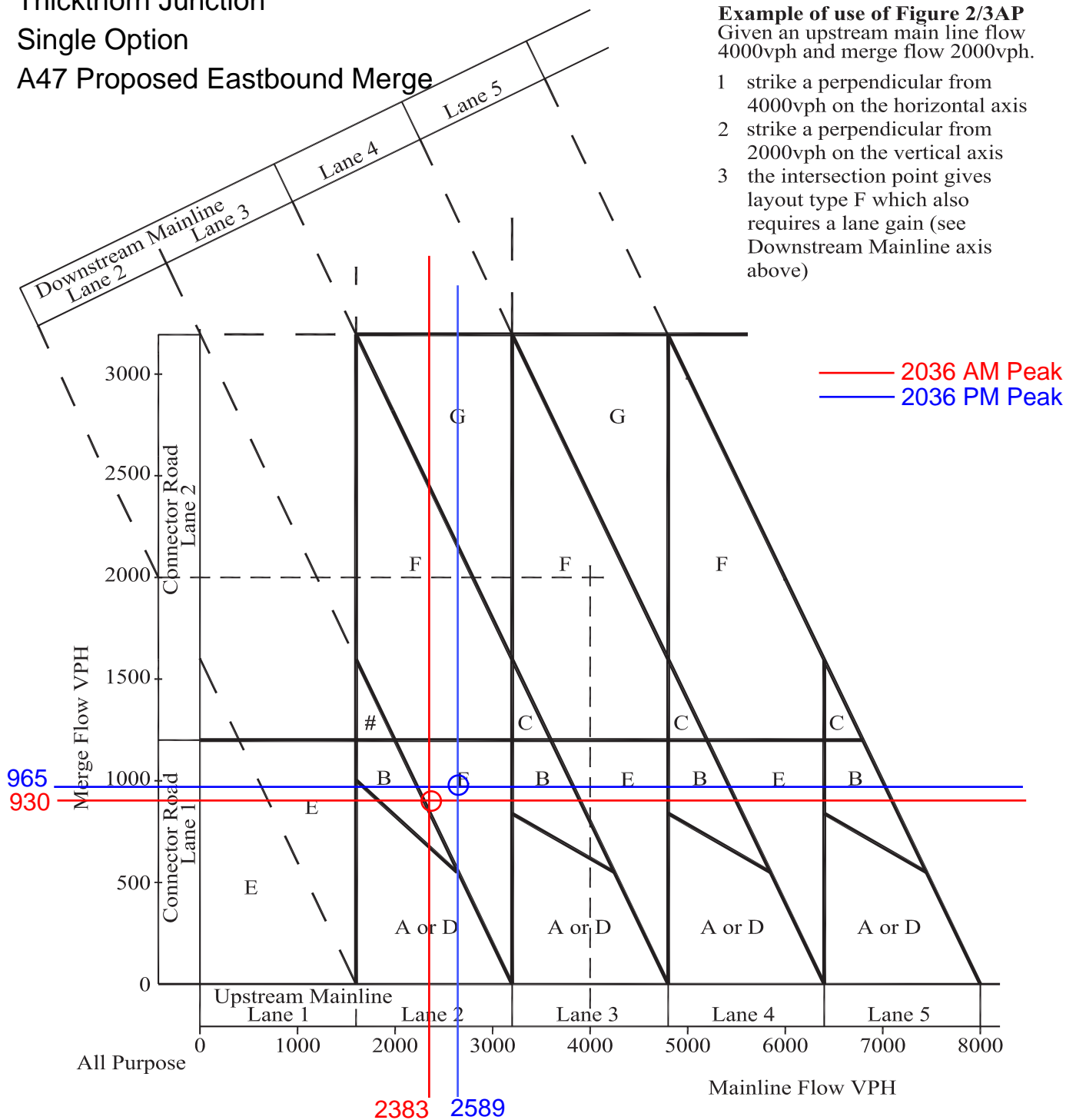
See paragraph 2.29 and the example above, for explanation of the usage of this diagram.

Figure 2/3 AP All-Purpose Road Merging Diagram

Thickthorn Junction
Single Option
A47 Proposed Eastbound Merge

Example of use of Figure 2/3AP
Given an upstream main line flow 4000vph and merge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type F which also requires a lane gain (see Downstream Mainline axis above)



Notes:

Area of uncertainty – In this area the choice will depend on the downstream provision. If there is a lane gain then use Layout E or F.

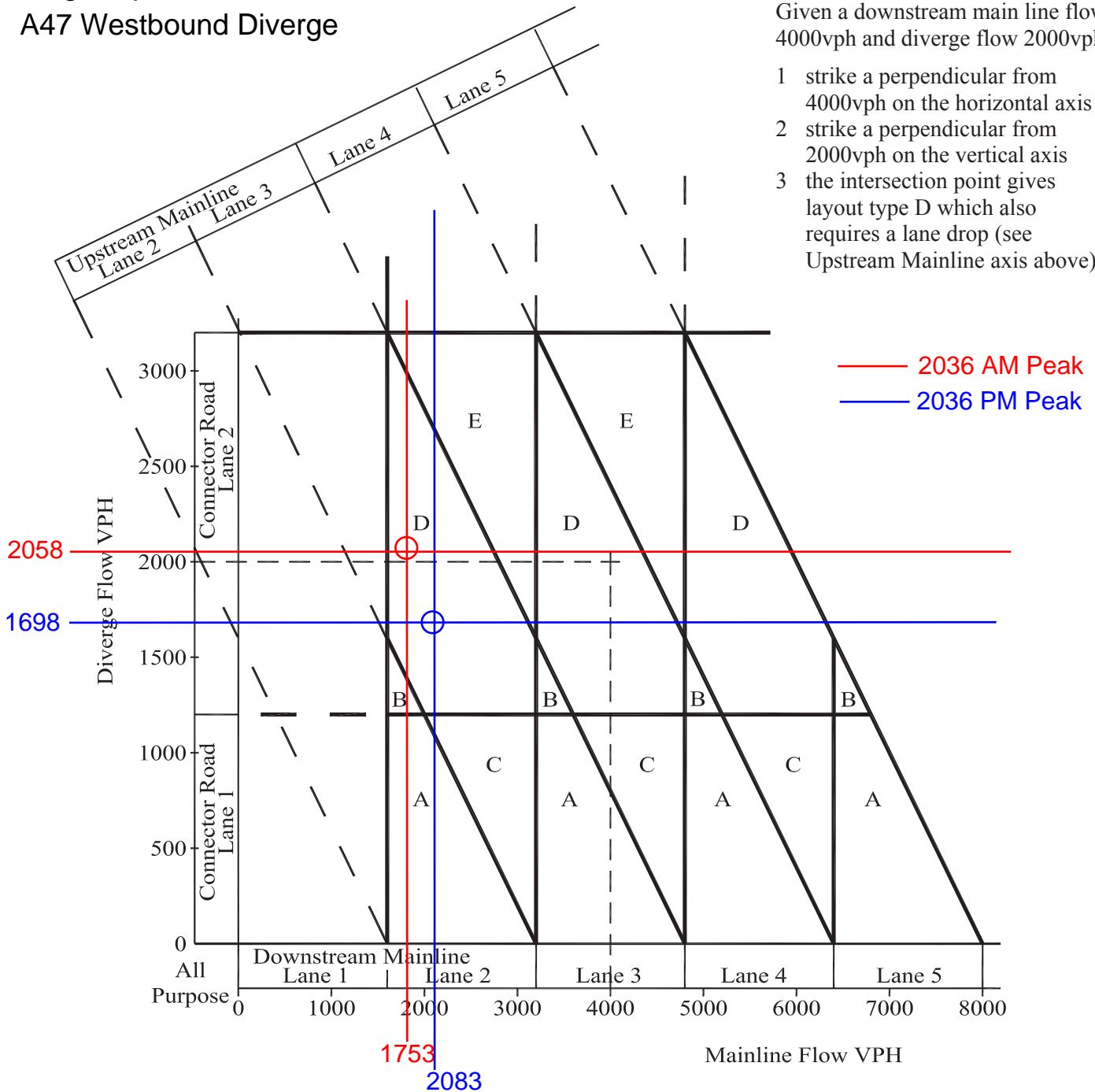
See paragraph 2.29 and the example above, for explanation of the usage of this diagram.

Figure 2/3 AP All-Purpose Road Merging Diagram

Thickthorn Junction
Single Option
A47 Westbound Diverge

Example of use of Figure 2/5AP
Given a downstream main line flow 4000vph and diverge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type D which also requires a lane drop (see Upstream Mainline axis above)



Notes:

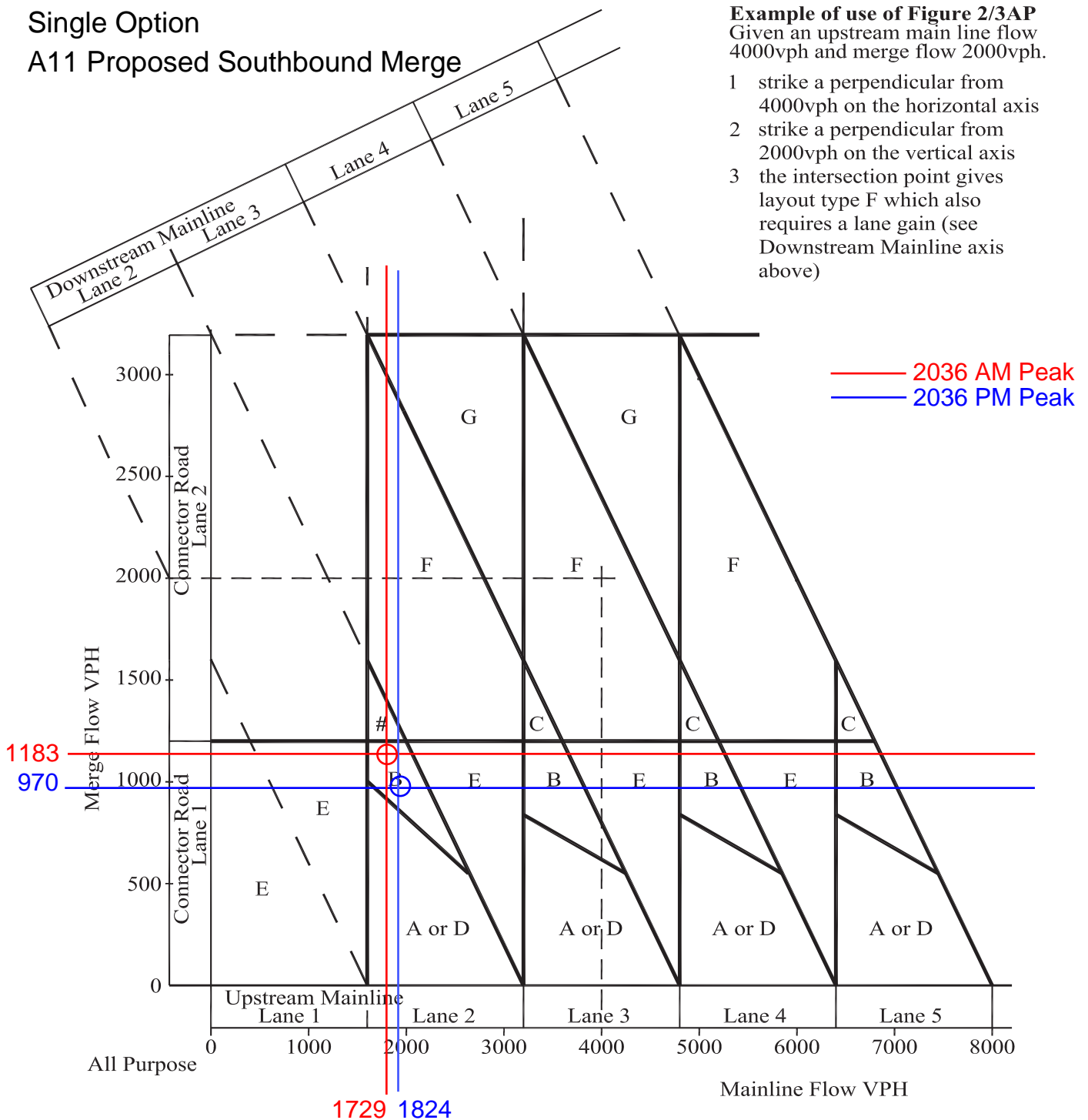
See paragraph 2.43 and the example above, for explanation of the usage of this diagram.

Figure 2/5 AP All-Purpose Road Diverging Diagram

Thickthorn Junction
Single Option
A11 Proposed Southbound Merge

Example of use of Figure 2/3AP
Given an upstream main line flow 4000vph and merge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type F which also requires a lane gain (see Downstream Mainline axis above)



Notes:

Area of uncertainty – In this area the choice will depend on the downstream provision. If there is a lane gain then use Layout E or F.

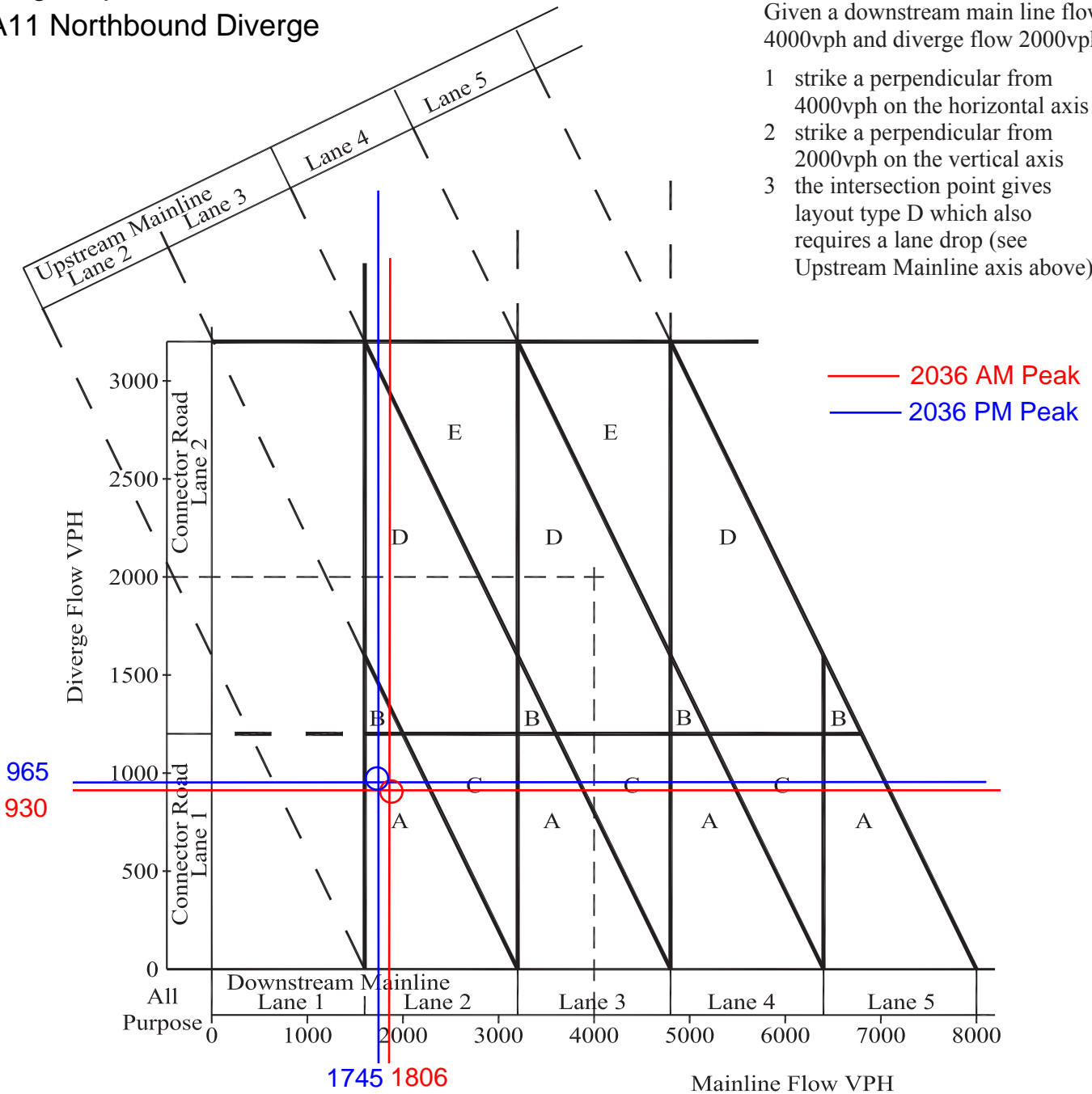
See paragraph 2.29 and the example above, for explanation of the usage of this diagram.

Figure 2/3 AP All-Purpose Road Merging Diagram

Thickthorn Interchange
Single Option
A11 Northbound Diverge

Example of use of Figure 2/5AP
Given a downstream main line flow 4000vph and diverge flow 2000vph.

- 1 strike a perpendicular from 4000vph on the horizontal axis
- 2 strike a perpendicular from 2000vph on the vertical axis
- 3 the intersection point gives layout type D which also requires a lane drop (see Upstream Mainline axis above)



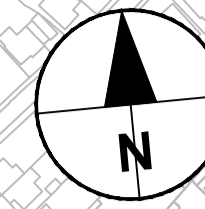
Notes:

See paragraph 2.43 and the example above, for explanation of the usage of this diagram.

Figure 2/5 AP All-Purpose Road Diverging Diagram

NOTES

- 2015 TURNING COUNT DATA IS DERIVED FROM TRAFFIC SURVEY DATA CARRIED OUT IN JUNE 2015.
- 2036 TURNING COUNT DATA IS DERIVED FROM JUNE 2015 TRAFFIC SURVEY DATA WITH NATIONAL TRANSPORT MODEL/NATIONAL TRIP END MODEL GROWTH FACTOR ADDED.



Revision Details	By	Date	Suffix
	Check		

INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways england

Project Title
A47 CORRIDOR STAGE 1

Drawing Title
A47/A11 THICKTHORN INTERCHANGE IMPROVEMENT TURNING COUNTS 2015 AND 2036

Designed JM	Drawn PJB	Checked EH	Approved RQ	Date 11/01/2016
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Scale @ A1
1:2500

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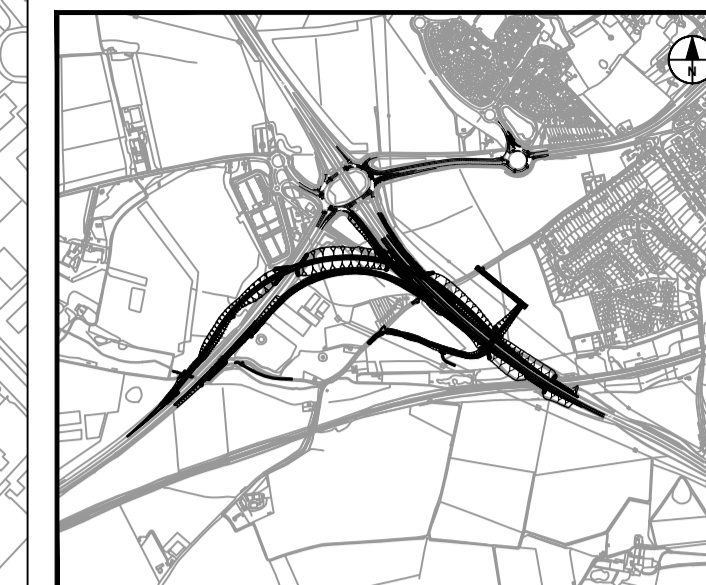
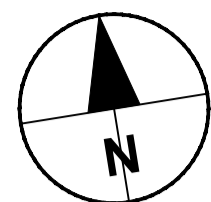
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HE551492-ACM-GEN-TJ-DR-HE-00101

Rev

File Date: 09/19/2016 4:19 PM
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Appendix I – Departures from Standards Location Plan





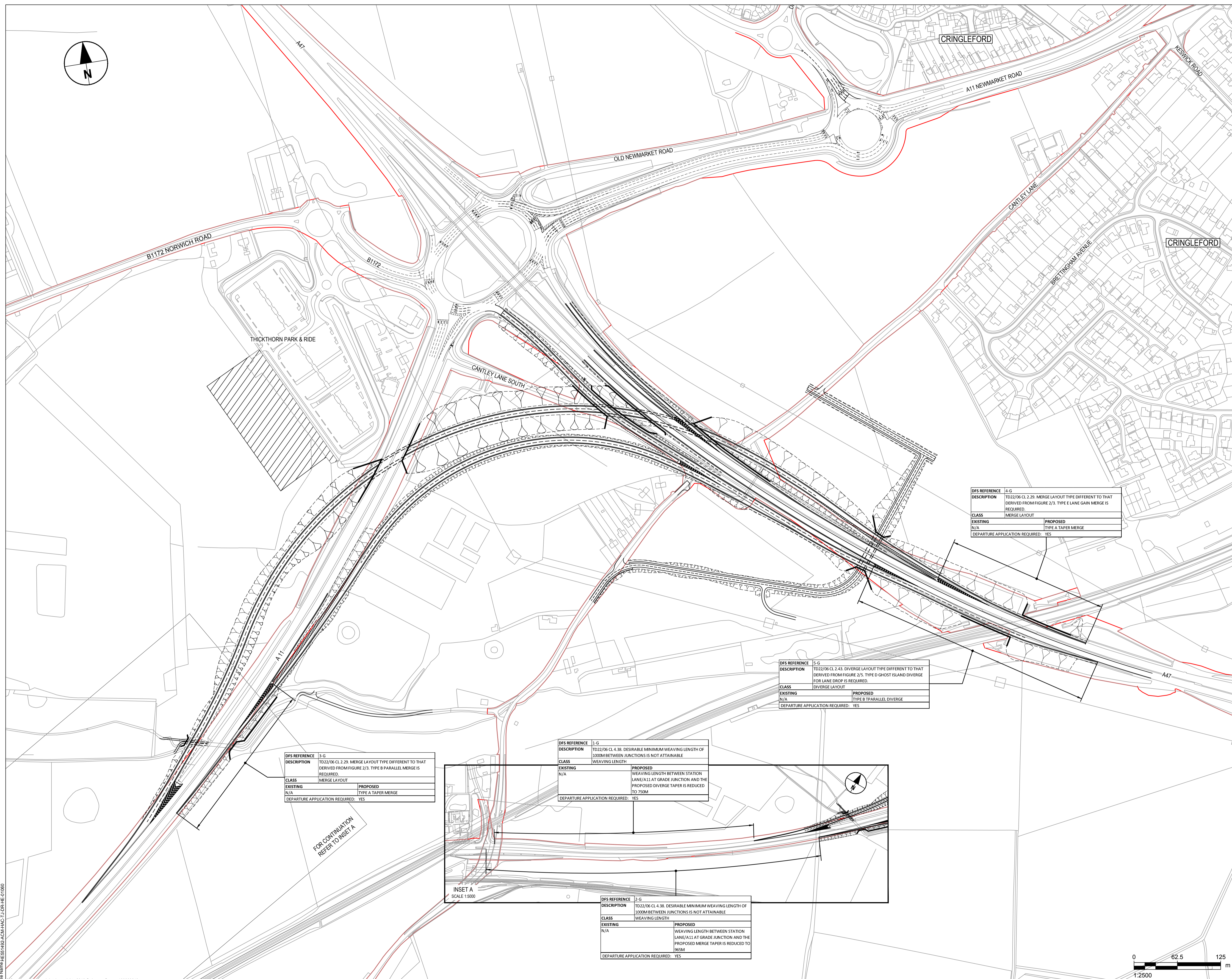
KEY LOCATION PLAN
SCALE 1:25000

KEY

- POTENTIAL PARK & RIDE EXPANSION
- EXISTING HIGHWAY BOUNDARY

NOTES

- FOR FURTHER INFORMATION REFER TO REPORT NUMBER HE551492-ACM-HAC-TJ-DS-HE-00003.
- THE ROAD MARKINGS, EXTENT OF EARTHWORKS AND STRUCTURES SHOWN ARE INDICATIVE ONLY AT THIS STAGE AND ARE SUBJECT TO CONFIRMATION AND FURTHER DETAILED DESIGN.
- EXISTING HIGHWAY BOUNDARY INFORMATION IS INDICATIVE AND HAS NOT BEEN VERIFIED.
- NO DIFFERENTIATION HAS BEEN MADE BETWEEN HIGHWAYS ENGLAND AND NORFOLK COUNTY COUNCIL'S HIGHWAY BOUNDARIES.

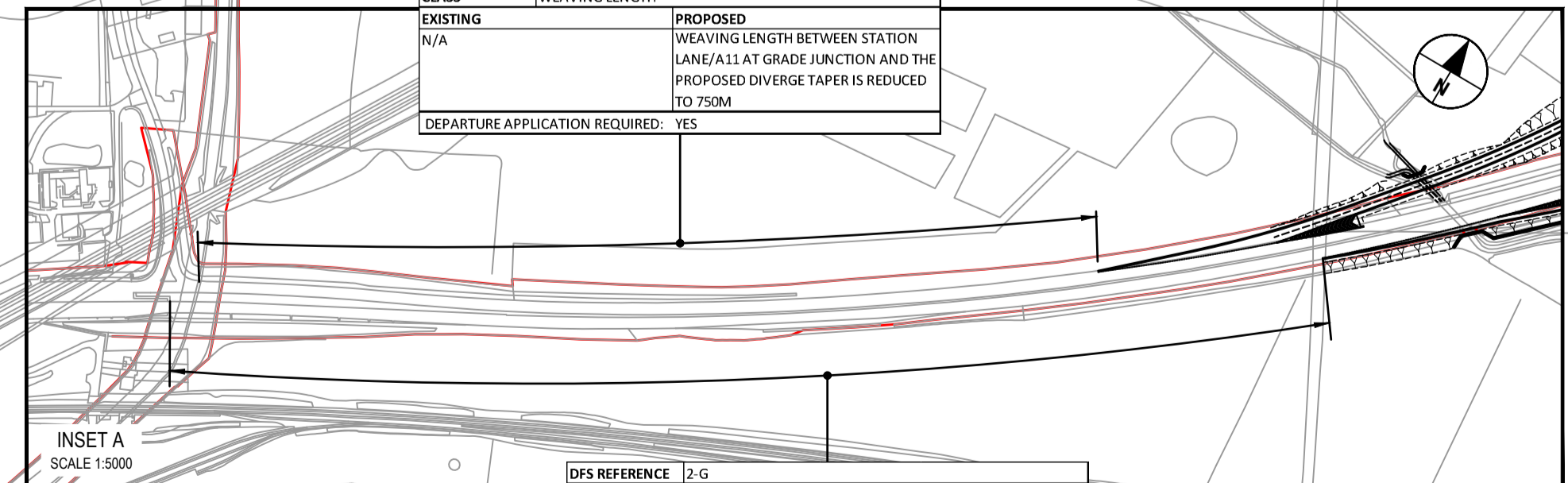


DFS REFERENCE	4-G
DESCRIPTION	TD22/06 CL 2.29 MERGE LAYOUT TYPE DIFFERENT TO THAT DERIVED FROM FIGURE 2/3. TYPE E LANE GAIN MERGE IS REQUIRED.
CLASS	MERGE LAYOUT
EXISTING	N/A
PROPOSED	TYPE A TAPER MERGE
DEPARTURE APPLICATION REQUIRED:	YES

DFS REFERENCE	1-G
DESCRIPTION	TD22/06 CL 2.43 DIVERGE LAYOUT TYPE DIFFERENT TO THAT DERIVED FROM FIGURE 2/5. TYPE D GHOST ISLAND DIVERGE FOR LANE DROP IS REQUIRED.
CLASS	DIVERGE LAYOUT
EXISTING	N/A
PROPOSED	TYPE B TP PARALLEL DIVERGE
DEPARTURE APPLICATION REQUIRED:	YES

DFS REFERENCE	1-G
DESCRIPTION	TD22/06 CL 4.38. DESIRABLE MINIMUM WEAVING LENGTH OF 1000M BETWEEN JUNCTIONS IS NOT ATTAINABLE
CLASS	WEAVING LENGTH
EXISTING	N/A
PROPOSED	WEAVING LENGTH BETWEEN STATION LANE/A11 AT GRADE JUNCTION AND THE PROPOSED DIVERGE TAPER IS REDUCED TO 750M
DEPARTURE APPLICATION REQUIRED:	YES

DFS REFERENCE	3-G
DESCRIPTION	TD22/06 CL 2.29 MERGE LAYOUT TYPE DIFFERENT TO THAT DERIVED FROM FIGURE 2/3. TYPE B PARALLEL MERGE IS REQUIRED.
CLASS	MERGE LAYOUT
EXISTING	N/A
PROPOSED	TYPE A TAPER MERGE
DEPARTURE APPLICATION REQUIRED:	YES



DFS REFERENCE	2-G
DESCRIPTION	TD22/06 CL 4.38. DESIRABLE MINIMUM WEAVING LENGTH OF 1000M BETWEEN JUNCTIONS IS NOT ATTAINABLE
CLASS	WEAVING LENGTH
EXISTING	N/A
PROPOSED	WEAVING LENGTH BETWEEN STATION LANE/A11 AT GRADE JUNCTION AND THE PROPOSED MERGE TAPER IS REDUCED TO 650M
DEPARTURE APPLICATION REQUIRED:	YES

FOR CONTINUATION REFER TO INSET A

Revision Details	By	Date	Suffix
	Check		

Purpose of issue

INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of

Project Title

**A47 CORRIDOR
PCF STAGE 2**

Drawing Title

**A47/A11 THICKTHORN
SINGLE OPTION
DEPARTURES FROM STANDARD
LOCATION PLAN**

Designed EH	Drawn MCJ	Checked KAM	Approved RQ	Date 16/05/17
Scale @ A1 1:2500	Suitability			

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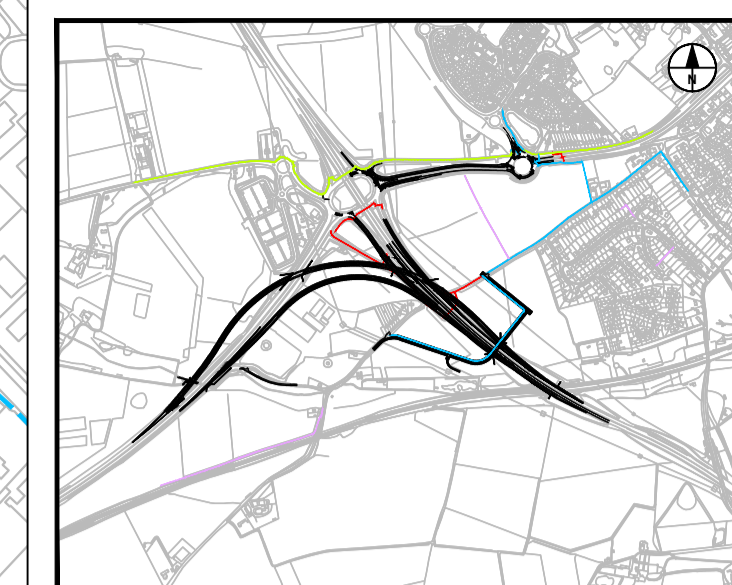
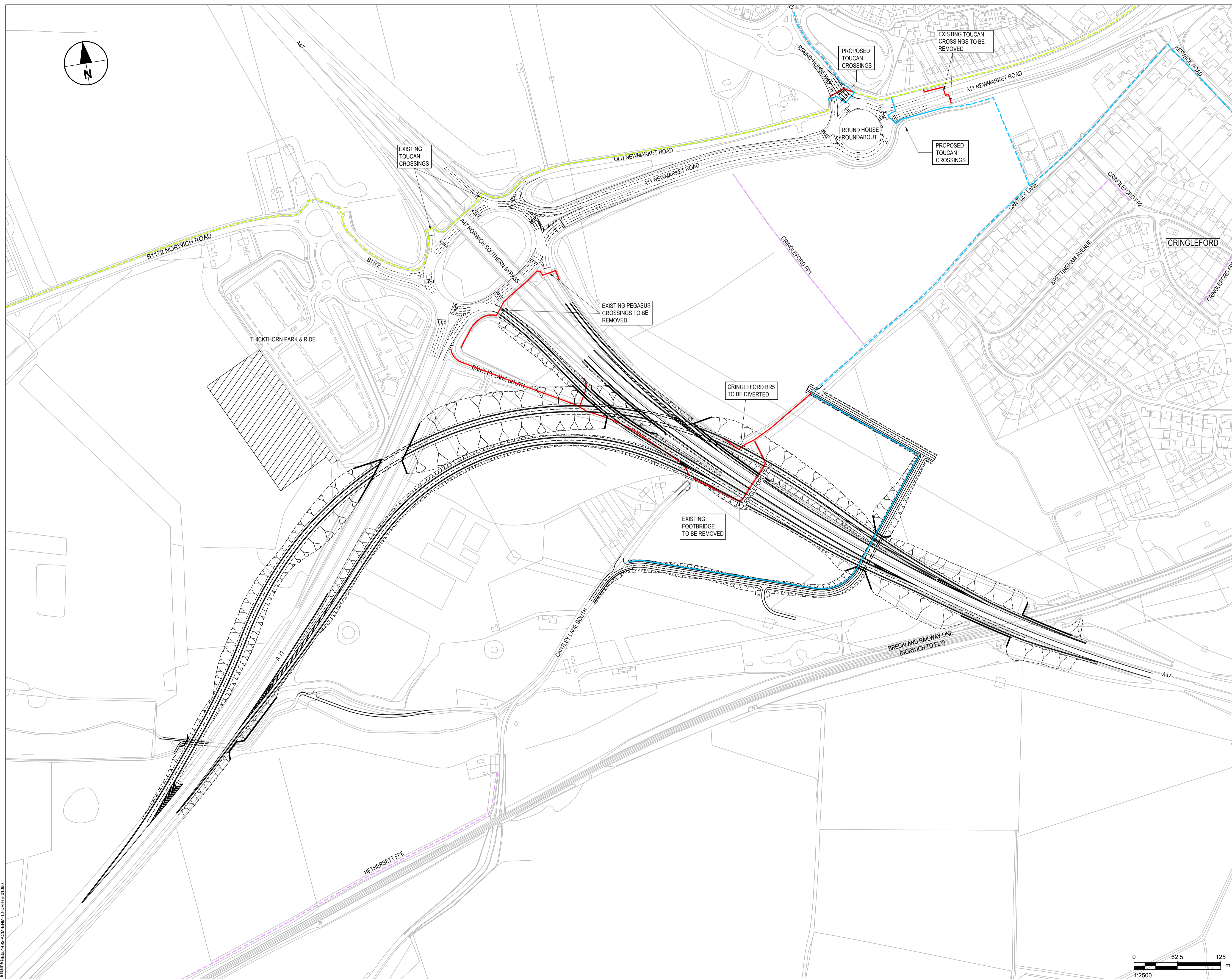
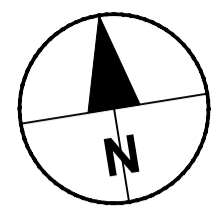
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HE551492-ACM-HAC-TJ-DR-HE-01060









File Date: 5/16/2017 12:10 PM
 File Name: HE551492-ACM-HAC-TJ-DR-HE-01060
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Appendix J – NMU Routes Plan





KEY LOCATION PLAN
SCALE 1:25000

- KEY**
-  POTENTIAL FUTURE PARK & RIDE EXPANSION
 -  EXISTING CRINGLEFORD - SPROWSTON CYCLE ROUTE
 -  EXISTING DEDICATED PUBLIC FOOTPATH
 -  EXISTING NEIGHBOURHOOD ROUTE (BASED ON THE CYCLING MAP FOR NORWICH)
 -  ROUTE TO BE STOPPED UP OR DIVERTED
 -  DIVERTED FOOTPATH/CYCLEWAY/BRIDLEWAY ROUTE

Revision Details	By	Date	Suffix

Purpose of issue **INFORMATION**

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of


Project Title
**A47 CORRIDOR
PCF STAGE 2**

Drawing Title
**A47/A11 THICKTHORN
SINGLE OPTION
NMU ROUTES**

Designed	Drawn	Checked	Approved	Date
EH	JDB	KAM	RQ	16/05/17

Scale @ A1
1:2500

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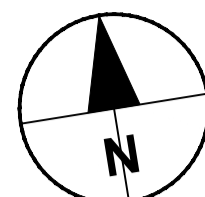
Drawing Number
HE551492-ACM-ENM-TJ-DR-HE-01060



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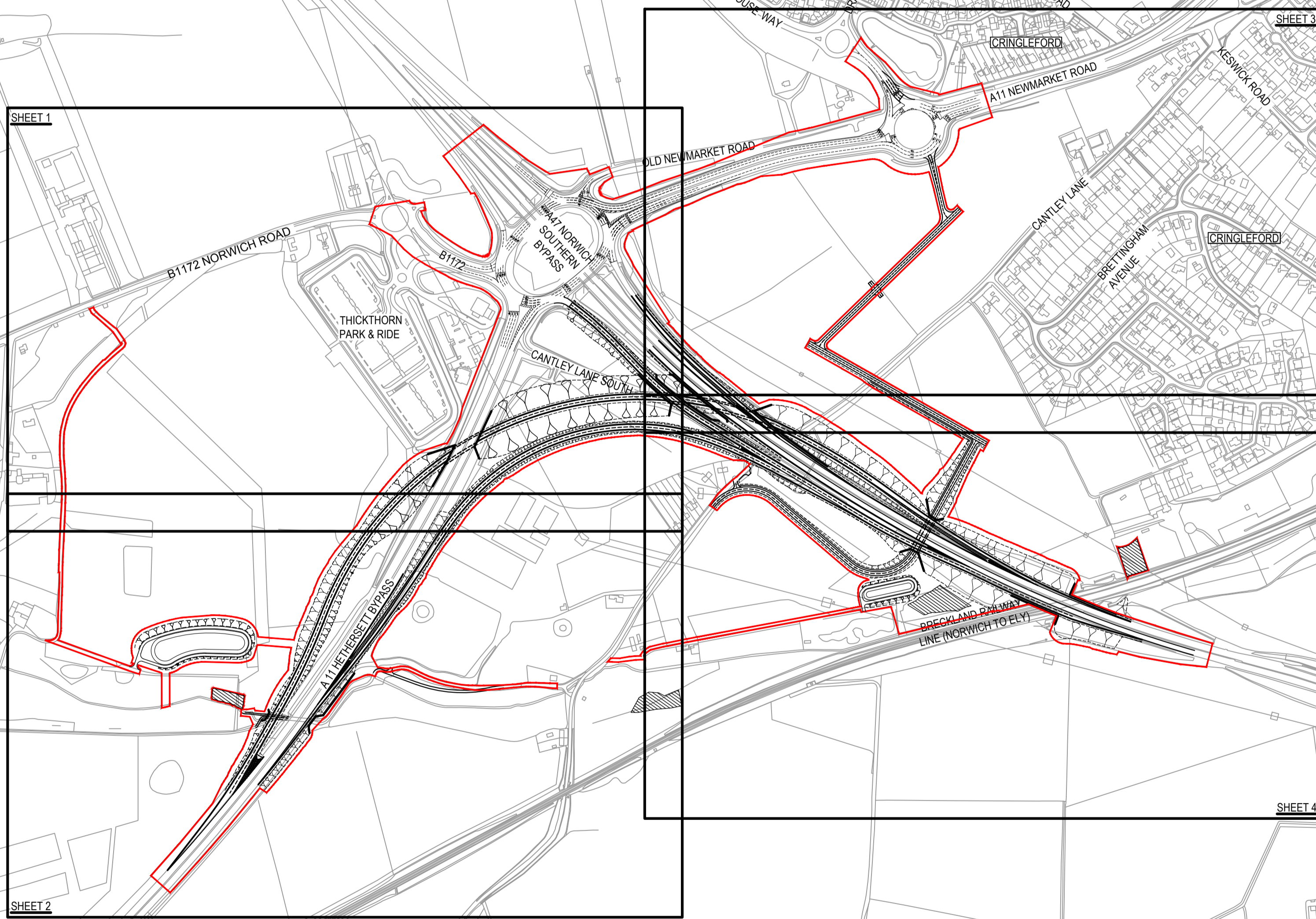
Appendix K – Land Take/Ownership Drawing





KEY
— DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
— LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY.

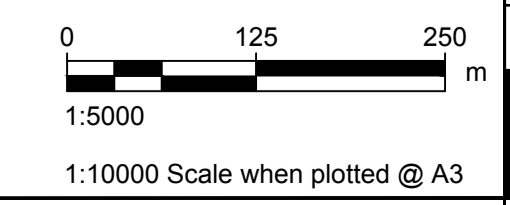
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
 3. ALL EASEMENTS, SERVITUDES AND PRIVATE RIGHTS OF ARE PROPOSED TO BE EXTINGUISHED ON LAND THAT IS TO BE ACQUIRED, UNLESS STATED OTHERWISE IN THE BOOK OF REFERENCE.
 4. THESE PLANS DO NOT SHOW THE FULL ORDER LIMITS BECAUSE THOSE AREAS ARE NOT SUBJECT TO COMPULSORY ACQUISITION AS THEY ARE LOCATED ON HIGHWAYS ENGLAND LAND.



Purpose of Issue					DCO SUBMISSION				
Project Title					A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2				
Drawing Title					OPTION 3 LAND PLANS REGULATION 5(2)(I) KEY PLAN				
Designed	Drawn	Checked	Approved	Date					
KP	PJB	PRB	JN	09-06-2017					
Scale @ A1					Suitability				
1:5000									
Drawing Number					HE551492-ACM-LSI-TJ-DR-HE-01030				
Rev					S1				
cm					A1				












Revision Details			
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MCJ	14/06/17		S1

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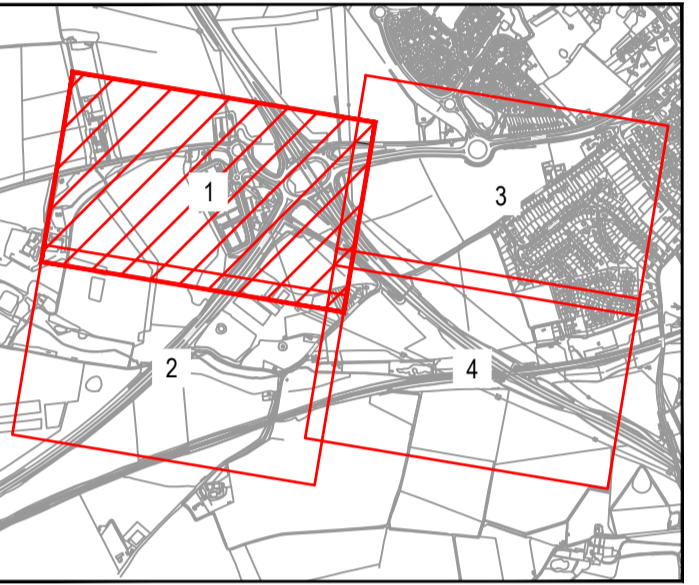
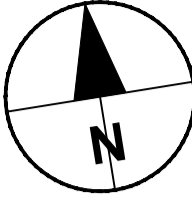
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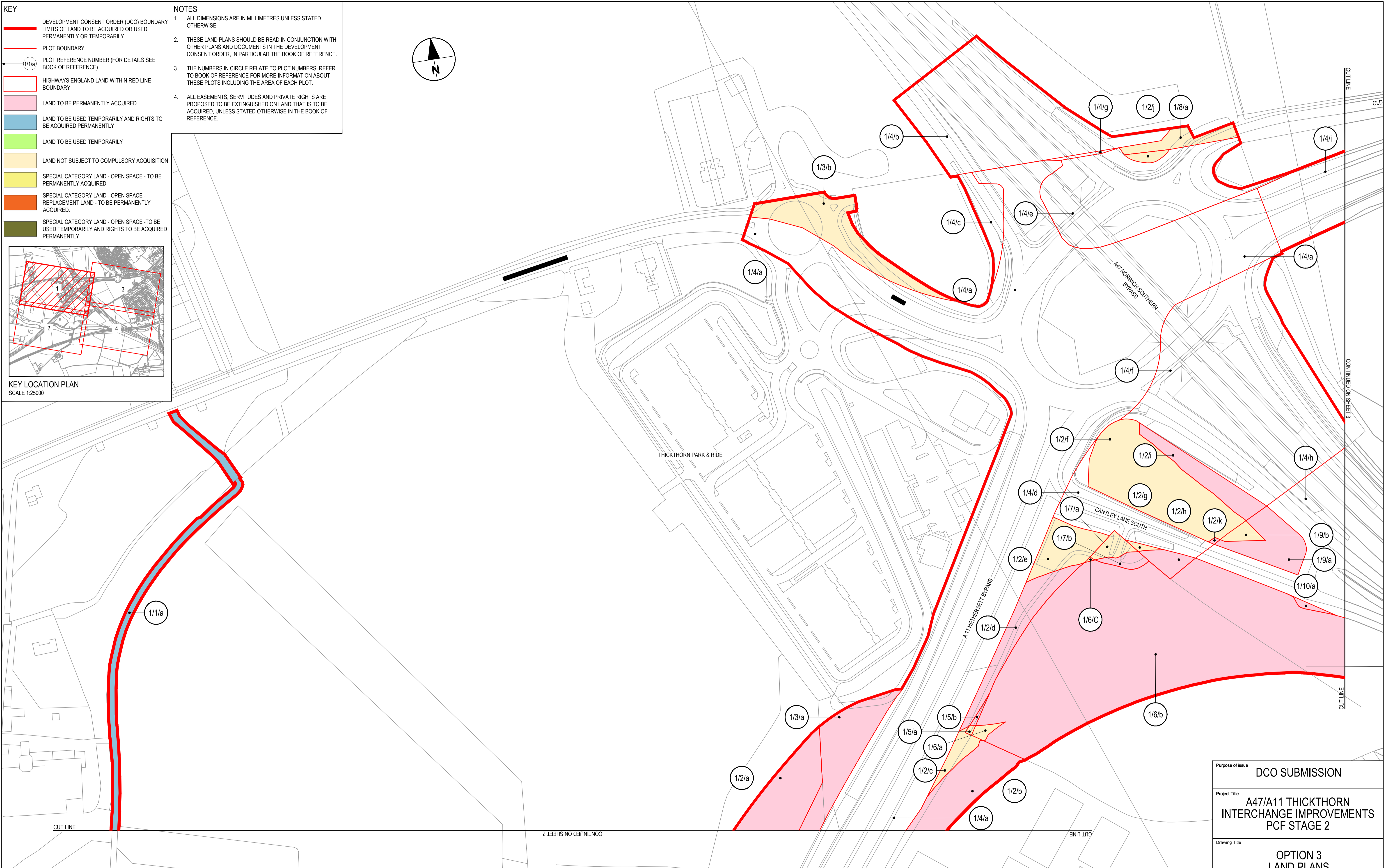
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-  PLOT BOUNDARY
-  PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
-  HIGHWAYS ENGLAND LAND WITHIN RED LINE BOUNDARY
-  LAND TO BE PERMANENTLY ACQUIRED
-  LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
-  LAND TO BE USED TEMPORARILY
-  LAND NOT SUBJECT TO COMPULSORY ACQUISITION
-  SPECIAL CATEGORY LAND - OPEN SPACE - TO BE PERMANENTLY ACQUIRED
-  SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED.
-  SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
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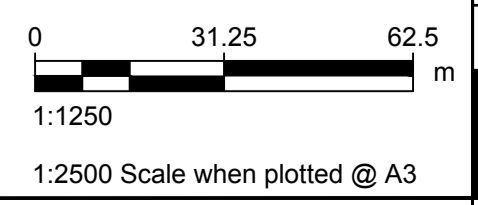


KEY LOCATION PLAN
SCALE 1:25000



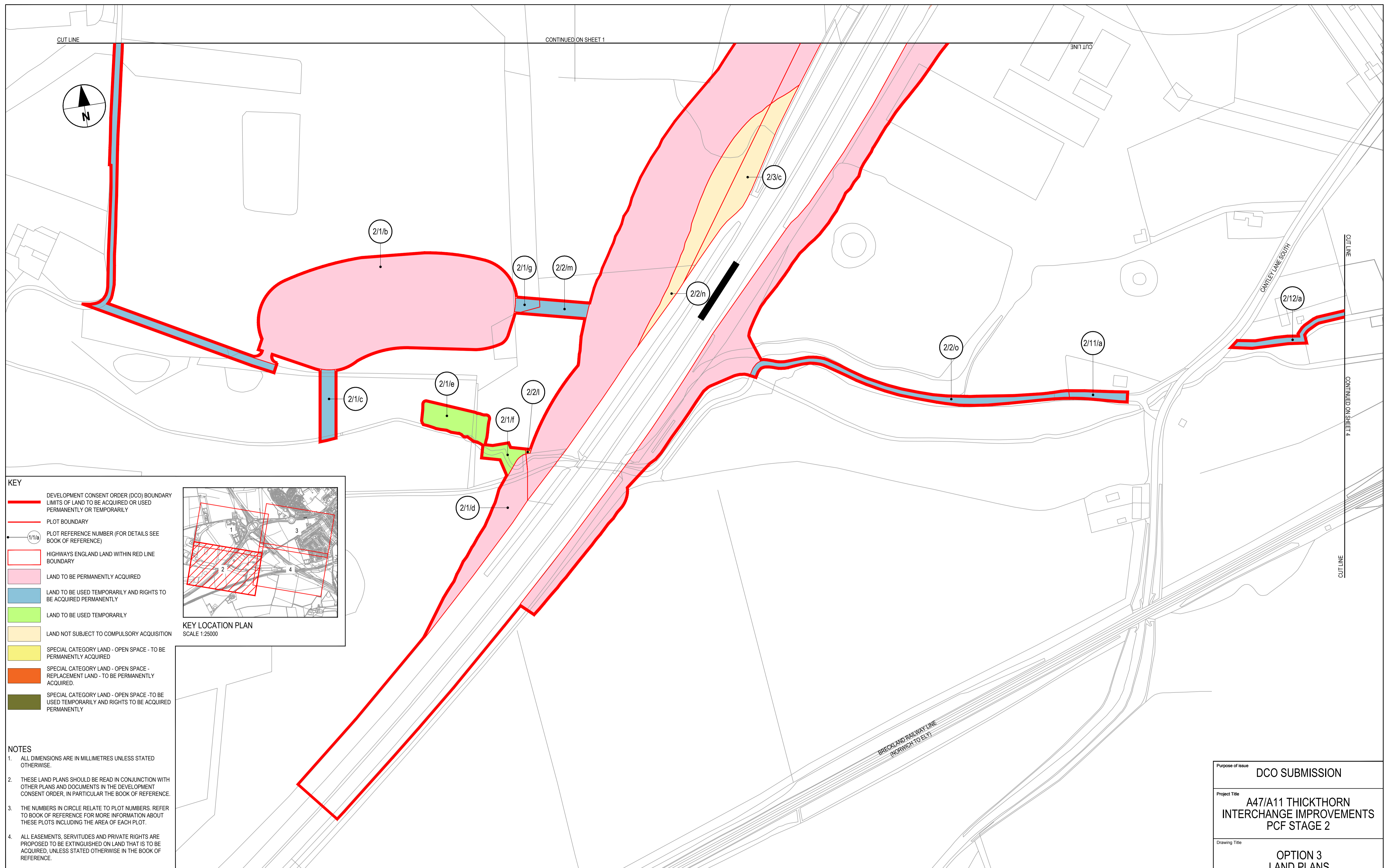
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DRAWING NUMBER AMENDED	MCJ	14/06/17	S1

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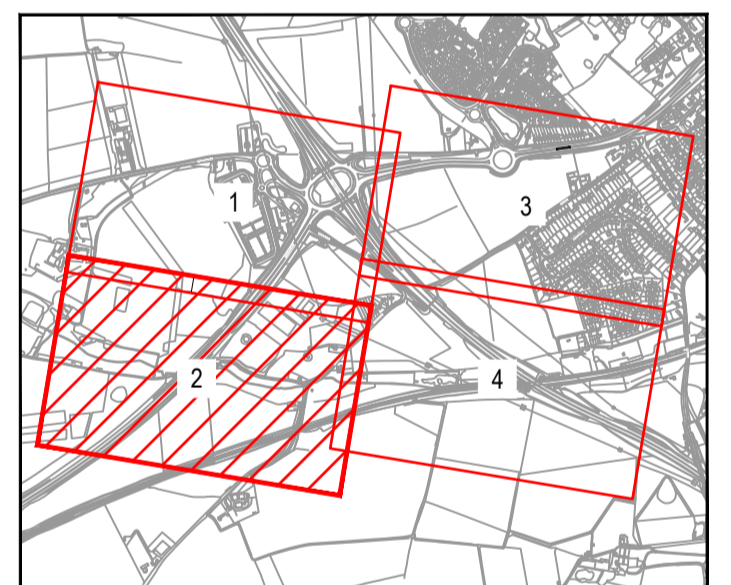


DCO SUBMISSION				
Project Title A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2				
Drawing Title OPTION 3 LAND PLANS REGULATION 5(2)(I) SHEET 1 of 4				
Designed K/P	Drawn PJB	Checked PRB	Approved J/N	Date 09-06-2017
Scale @ A1 1:1250			Suitability	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01031				Rev S1
cm				A1

File Date: 06/14/2017 12:12 PM
File Name: HE551492-ACM-LSI-TJ-DR-HE-01031



- KEY**
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 - PLOT BOUNDARY
 - (1/1/a) PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
 - HIGHWAYS ENGLAND LAND WITHIN RED LINE BOUNDARY
 - LAND TO BE PERMANENTLY ACQUIRED
 - LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
 - LAND TO BE USED TEMPORARILY
 - LAND NOT SUBJECT TO COMPULSORY ACQUISITION
 - SPECIAL CATEGORY LAND - OPEN SPACE - TO BE PERMANENTLY ACQUIRED
 - SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED.
 - SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

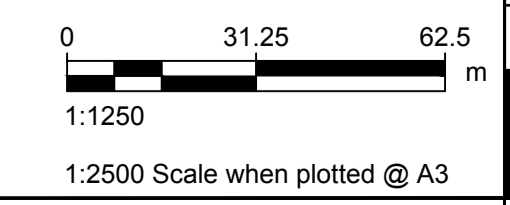


KEY LOCATION PLAN
SCALE 1:25000

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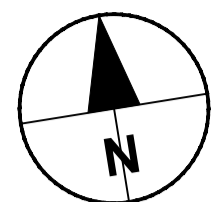
Revision Details	By	Date	Check	Suffix
DRAWING NUMBER AMENDED	MCJ	14/06/17		S1

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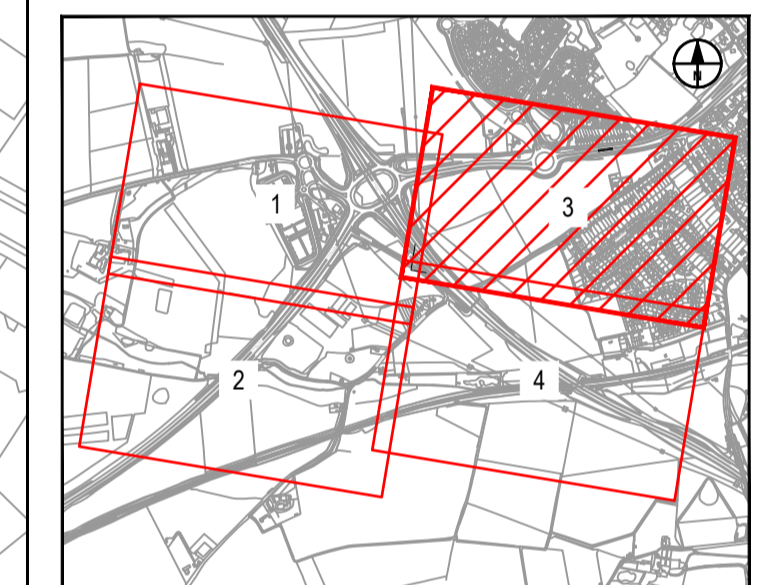
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DCO SUBMISSION			
Project Title			
A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2			
Drawing Title			
OPTION 3 LAND PLANS REGULATION 5(2)(i) SHEET 2 of 4			
Designed JJP	Drawn PJB	Checked PRB	Approved JUN
Scale @ A1 1:1250		Date 09-06-2017	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01032			Rev S1
cm			A1

File Date: 06/14/2017 12:01 PM
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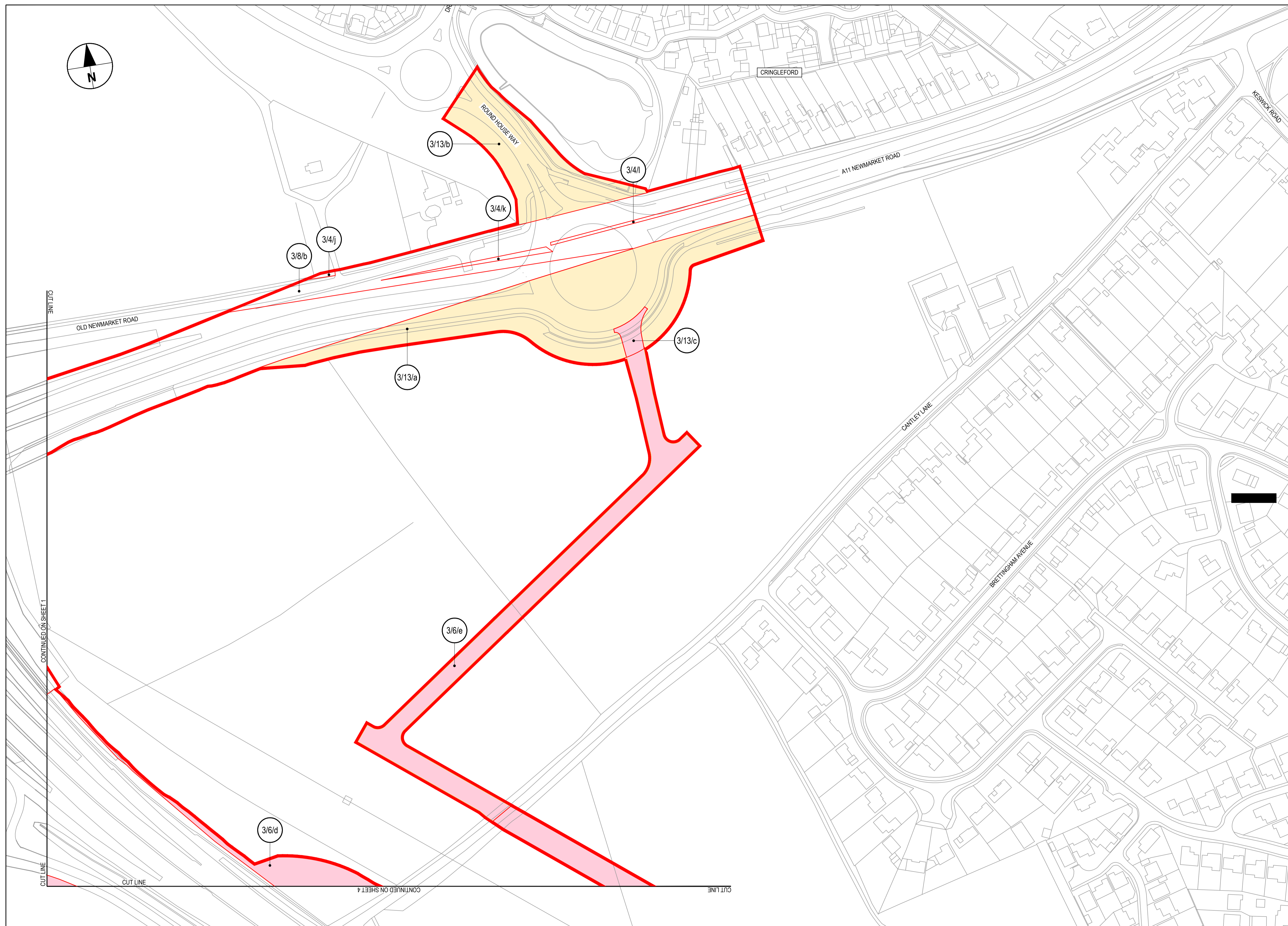


- KEY**
- DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
 - LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY
 - PLOT BOUNDARY
 - 1/1/a PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
 - HIGHWAYS ENGLAND LAND WITHIN RED LINE BOUNDARY
 - LAND TO BE PERMANENTLY ACQUIRED
 - LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
 - LAND TO BE USED TEMPORARILY
 - LAND NOT SUBJECT TO COMPULSORY ACQUISITION
 - SPECIAL CATEGORY LAND - OPEN SPACE - TO BE PERMANENTLY ACQUIRED
 - SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED
 - SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
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 4. ALL EASEMENTS, SERVITUDES AND PRIVATE RIGHTS ARE PROPOSED TO BE EXTINGUISHED ON LAND THAT IS TO BE ACQUIRED, UNLESS STATED OTHERWISE IN THE BOOK OF REFERENCE.



KEY LOCATION PLAN
SCALE 1:25000



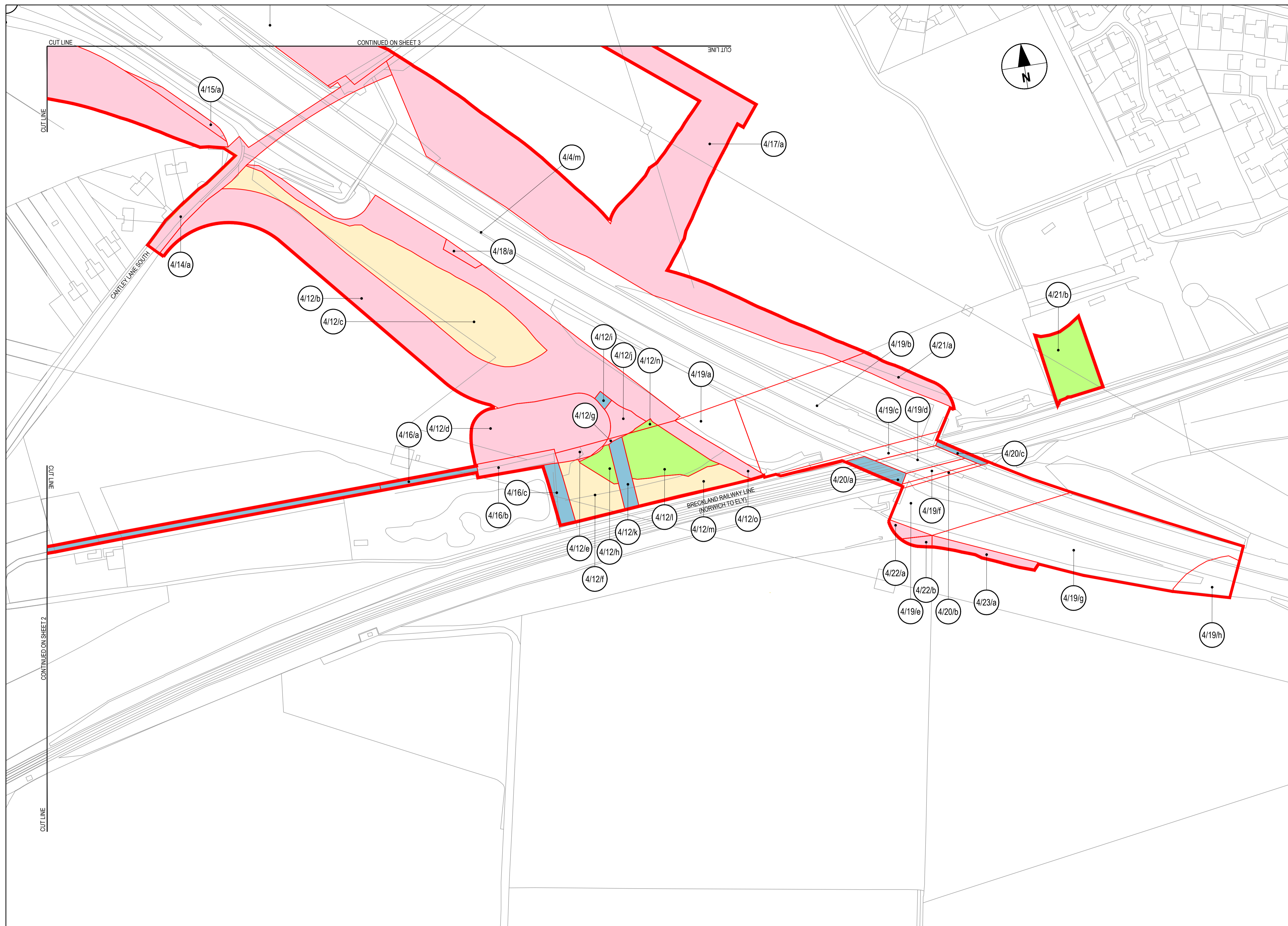
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DCO SUBMISSION			
Project Title			
A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2			
Drawing Title			
OPTION 3 LAND PLANS REGULATION 5(2)(i) SHEET 3 of 4			
Designed J/P	Drawn PJB	Checked PRB	Approved J/N
Scale @ A1 1:1250		Date 09-06-2017	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01033			Rev S1
cm			A1



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100030649 (2017)

Revision Details	
By	Date
Check	Suffix
MCJ	14/06/17 S1

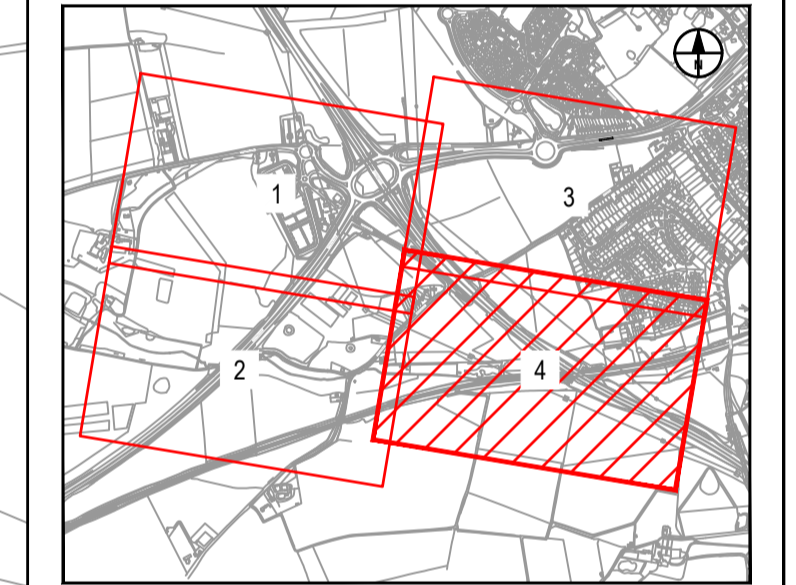
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File Name: HE551492-ACM-LSI-TJ-DR-HE-01033



KEY

- DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
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- SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED
- SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

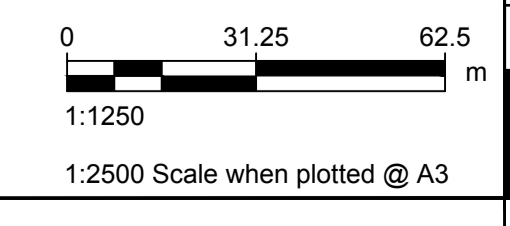
- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
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KEY LOCATION PLAN
SCALE 1:25000

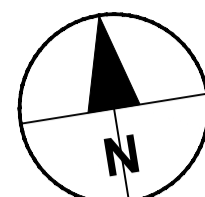
Revision Details	By	Date	Suffix
DRAWING NUMBER AMENDED	MCJ	14/06/17	S1

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DCO SUBMISSION			
Project Title A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2			
Drawing Title OPTION 3 LAND PLANS REGULATION 5(2)(i) SHEET 4 of 4			
Designed JJP	Drawn PJB	Checked PRB	Approved JUN
Scale @ A1 1:1250		Date 09-06-2017	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01034			Rev S1
cm			A1

File Date: 09/14/2017 11:03 AM
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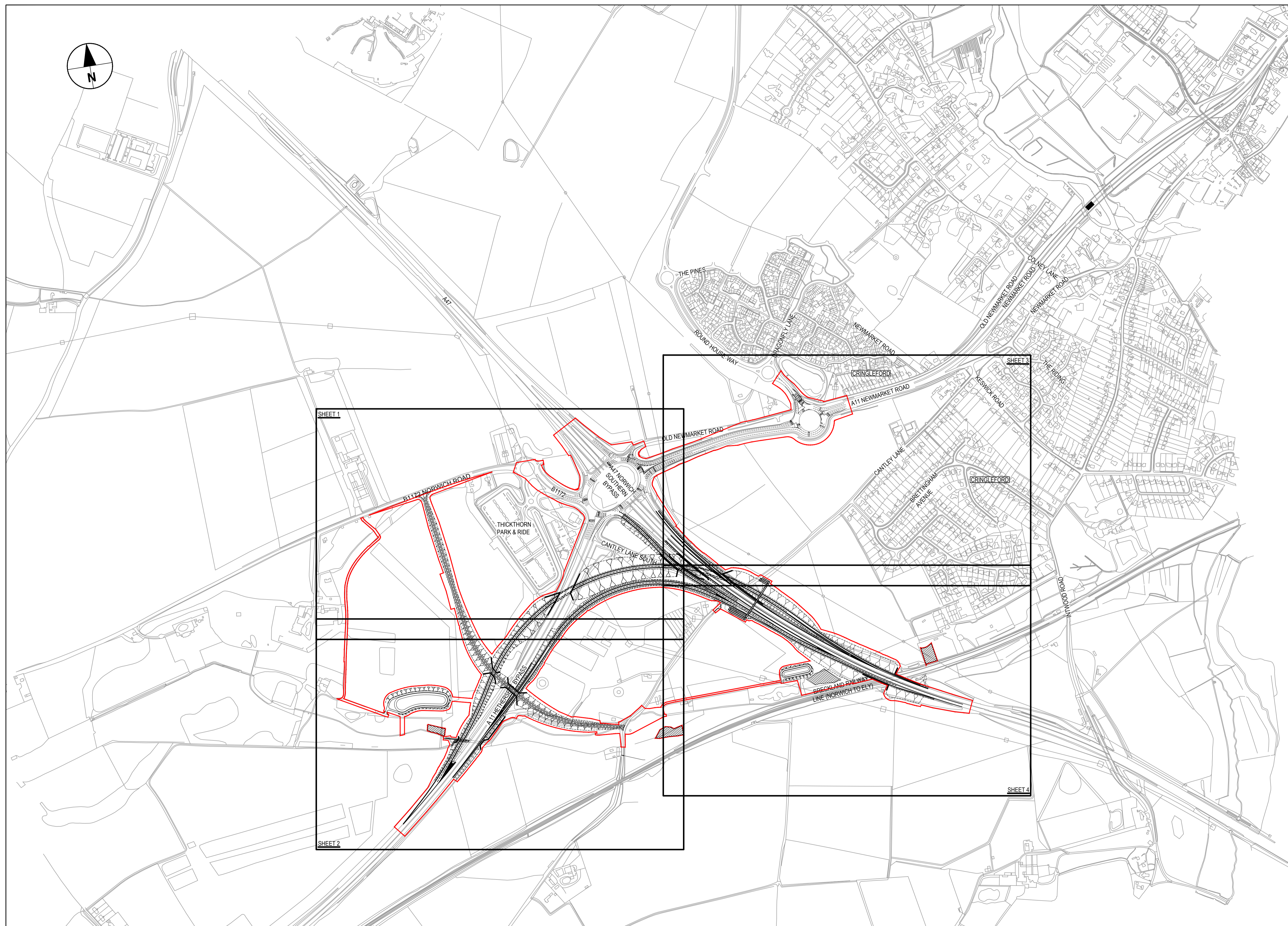


KEY

— DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
 — LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY.

NOTES

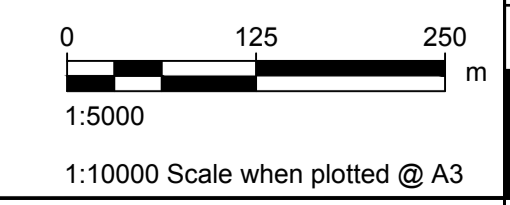
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
3. ALL EASEMENTS, SERVITUDES AND PRIVATE RIGHTS OF ARE PROPOSED TO BE EXTINGUISHED ON LAND THAT IS TO BE ACQUIRED, UNLESS STATED OTHERWISE IN THE BOOK OF REFERENCE.
4. THESE PLANS DO NOT SHOW THE FULL ORDER LIMITS BECAUSE THOSE AREAS ARE NOT SUBJECT TO COMPULSORY ACQUISITION AS THEY ARE LOCATED ON HIGHWAYS ENGLAND LAND.



Purpose of Issue		DCO SUBMISSION	
Project Title		A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2	
Drawing Title		OPTION 4 LAND PLANS REGULATION 5(2)(i) KEY PLAN	
Designed KP	Drawn PJB	Checked PRB	Approved JN
Scale @ A1 1:5000	Suitability		Date 09-06-2017
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01040			Rev S1
cm			A1

Revision Details	By	Date	Suffix
DRAWING NUMBER AMENDED	MCJ	14/06/17	S1
	Check		

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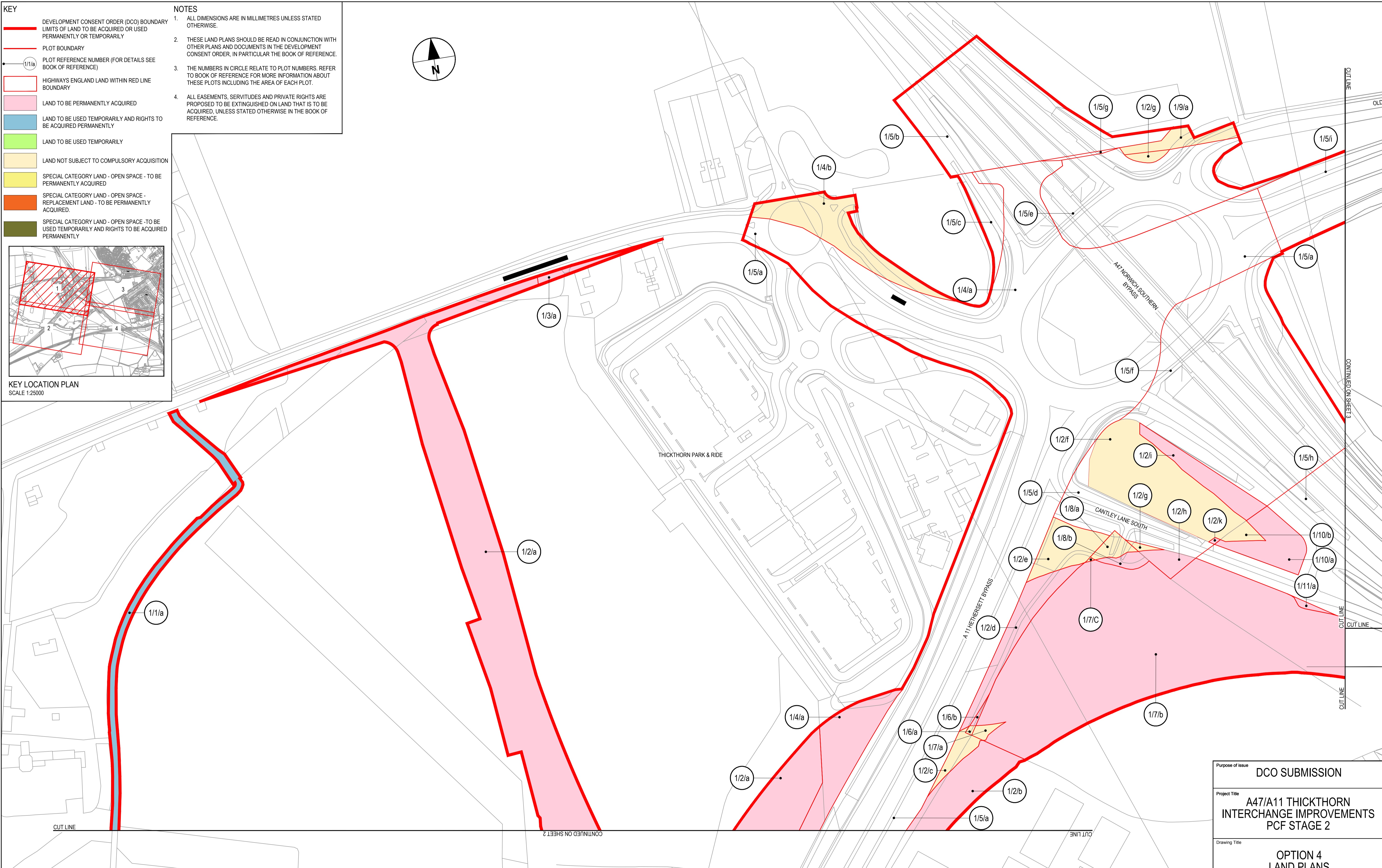
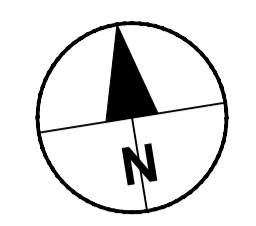
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KEY

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- PLOT BOUNDARY
- 1/1/a PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
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- SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED
- SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

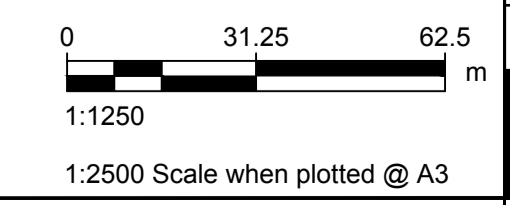
KEY LOCATION PLAN
SCALE 1:25000

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THESE LAND PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.
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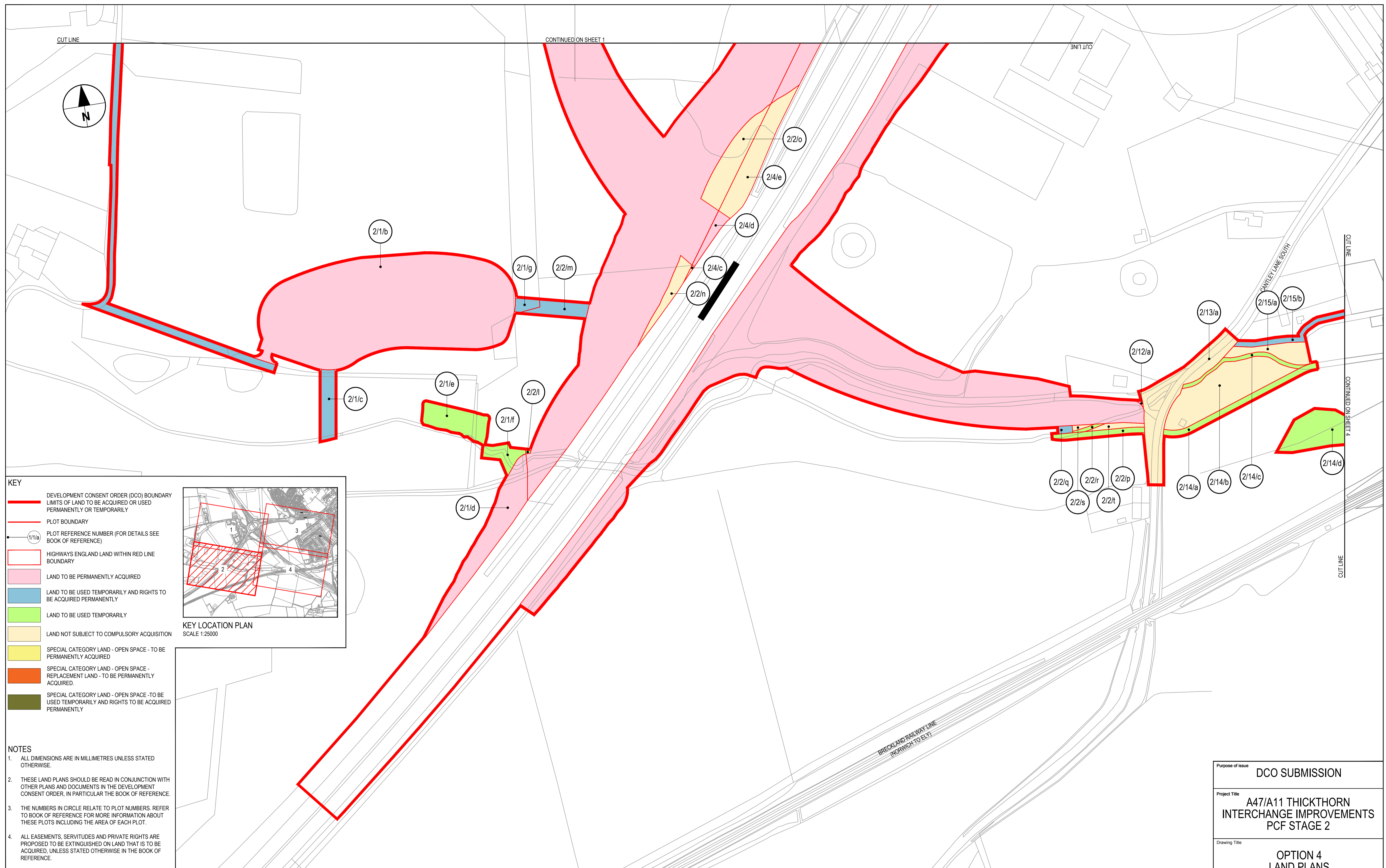


Revision Details	By	Date	Suffix
DRAWING NUMBER & PLOT REFERENCE AMENDED	MCJ	14/06/17	S1

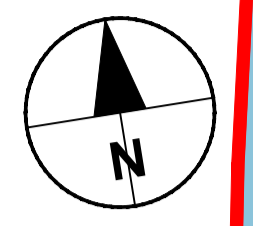
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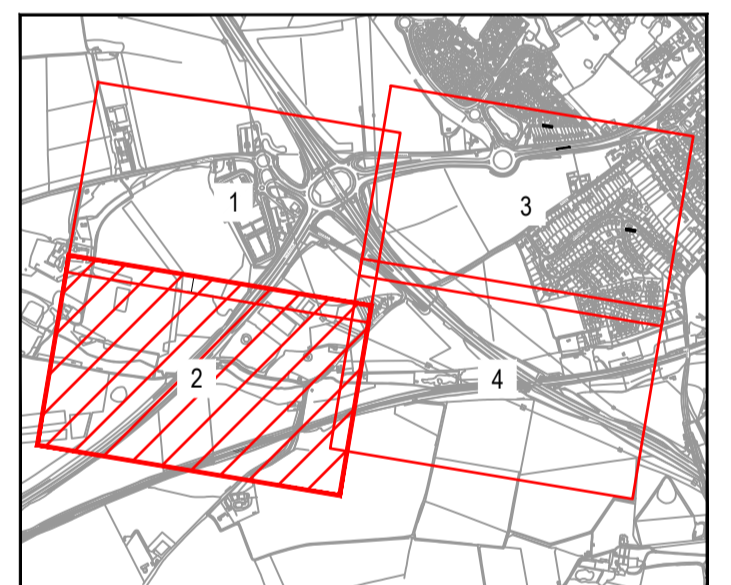
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Project Title A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2				
Drawing Title OPTION 4 LAND PLANS REGULATION 5(2)(i) SHEET 1 of 4				
Designed J/P	Drawn PJB	Checked PJB	Approved J/N	Date 09-06-2017
Scale @ A1 1:1250				Subsidiary
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01041				Rev S1
cm				A1



CUT LINE CONTINUED ON SHEET 1 CUT LINE



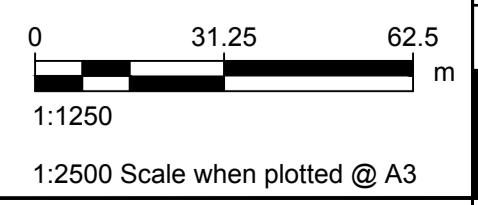
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 - PLOT BOUNDARY
 - PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
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KEY LOCATION PLAN
SCALE 1:25000

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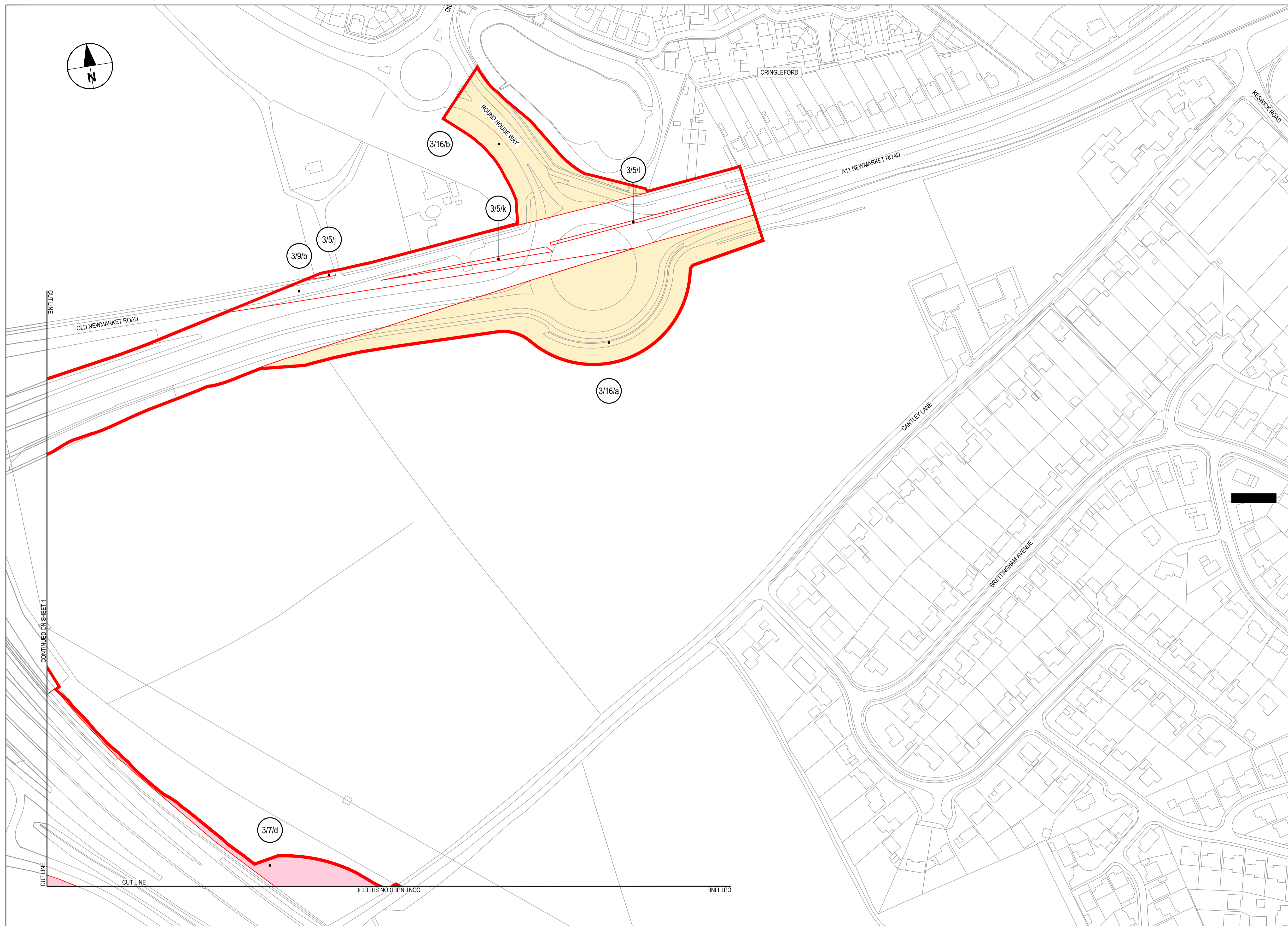
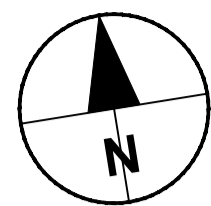
Purpose of Issue			
DCO SUBMISSION			
Project Title			
A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2			
Drawing Title			
OPTION 4 LAND PLANS REGULATION 5(2)(i) SHEET 2 of 4			
Designed JJP	Drawn PJB	Checked PRB	Approved JUN
Scale @ A1 1:1250		Date 09-06-2017	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01042			Rev S1
cm			A1



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Revision Details	By	Date	Suffix
DRAWING NUMBER AMENDED	MCJ	14/06/17	S1

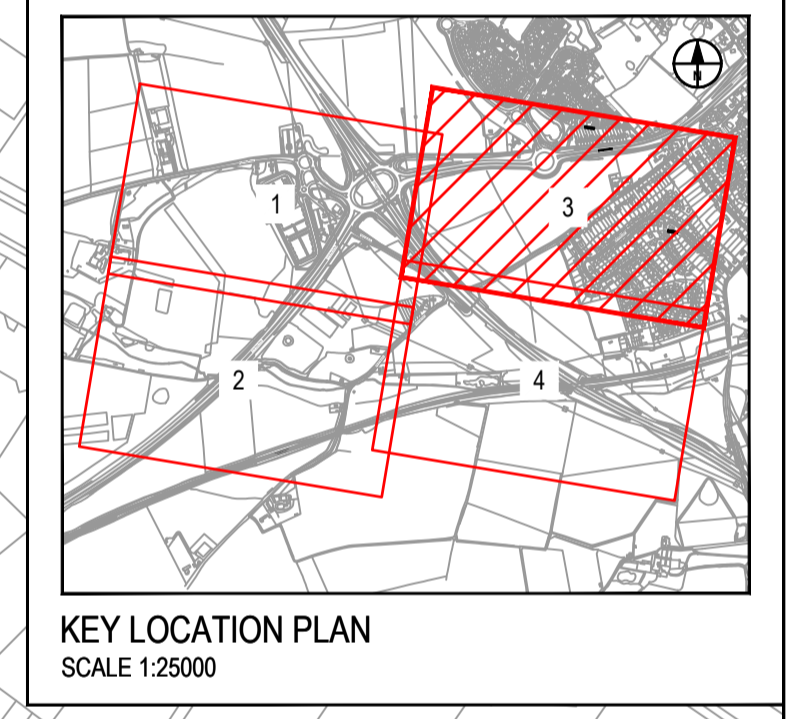
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KEY

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- LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY
- PLOT BOUNDARY
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- LAND TO BE PERMANENTLY ACQUIRED
- LAND TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY
- LAND TO BE USED TEMPORARILY
- LAND NOT SUBJECT TO COMPULSORY ACQUISITION
- SPECIAL CATEGORY LAND - OPEN SPACE - TO BE PERMANENTLY ACQUIRED
- SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED
- SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

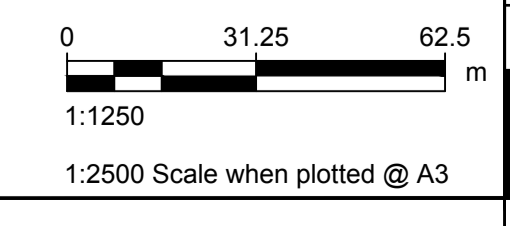
- NOTES**
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DESIGNED	Drawn	Checked	Approved	Date
KP	PJB	PRB	JN	09-06-2017
Scale @ A1		Suitability		
1:1250				
1:2500 Scale when plotted @ A3				

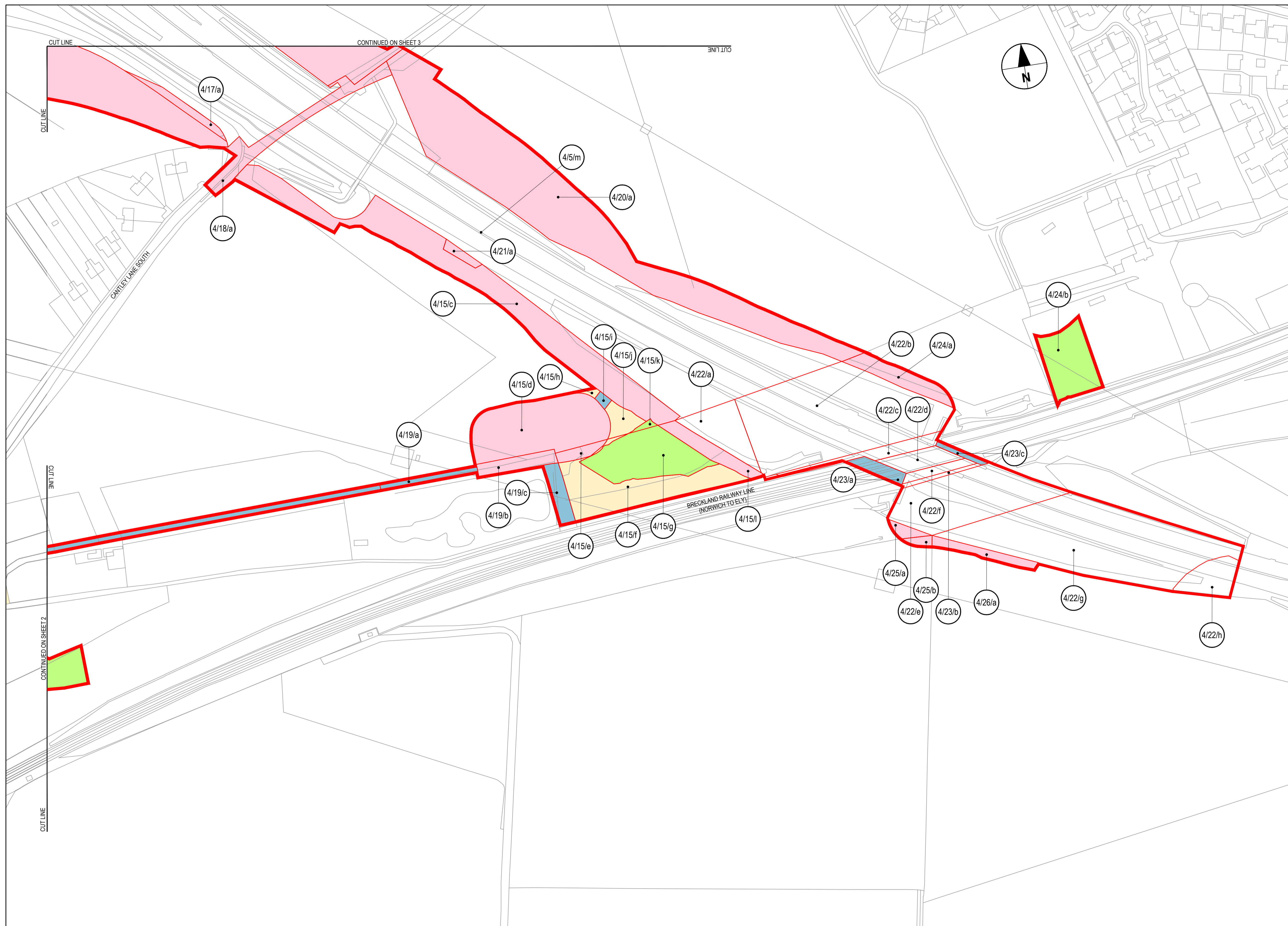
By	Date	Suffix
MCJ	14/06/17	S1

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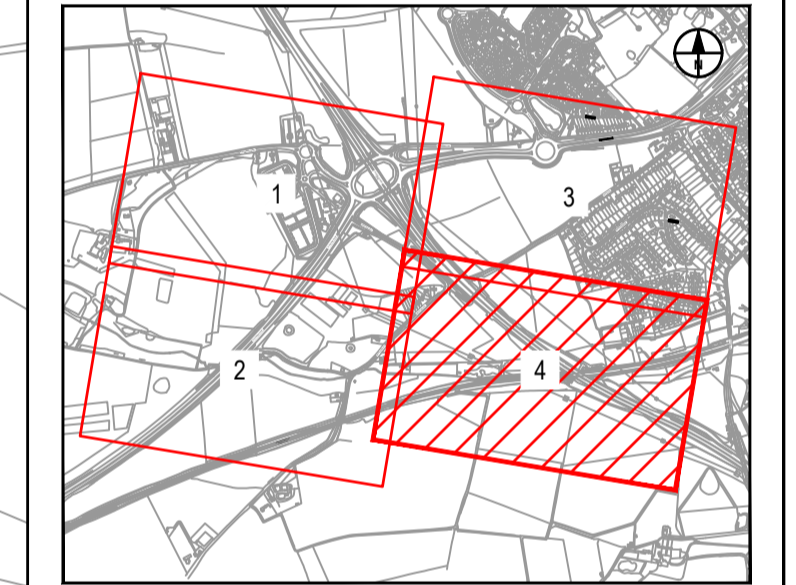
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Project Title		A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2	
Drawing Title		OPTION 4 LAND PLANS REGULATION 5(2)(i) SHEET 3 of 4	
Designed	Drawn	Checked	Approved
KP	PJB	PRB	JN
Date		09-06-2017	
Scale @ A1		Suitability	
1:1250			
1:2500 Scale when plotted @ A3			
Drawing Number			Rev
HE551492-ACM-LSI-TJ-DR-HE-01043			S1
cm			A1

File Date: 09/14/2017 10:29 AM
File Name: HE551492-ACM-LSI-TJ-DR-HE-01043



- KEY**
- DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY
 - LIMITS OF LAND TO BE ACQUIRED OR USED PERMANENTLY OR TEMPORARILY
 - PLOT BOUNDARY
 - 1/1/a PLOT REFERENCE NUMBER (FOR DETAILS SEE BOOK OF REFERENCE)
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 - SPECIAL CATEGORY LAND - OPEN SPACE - REPLACEMENT LAND - TO BE PERMANENTLY ACQUIRED.
 - SPECIAL CATEGORY LAND - OPEN SPACE - TO BE USED TEMPORARILY AND RIGHTS TO BE ACQUIRED PERMANENTLY

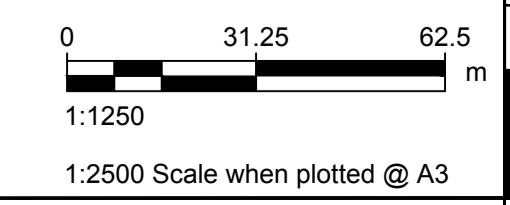
- NOTES**
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KEY LOCATION PLAN
SCALE 1:25000

Revision Details	By	Date	Suffix
DRAWING NUMBER AMENDED	MCJ	14/06/17	S1

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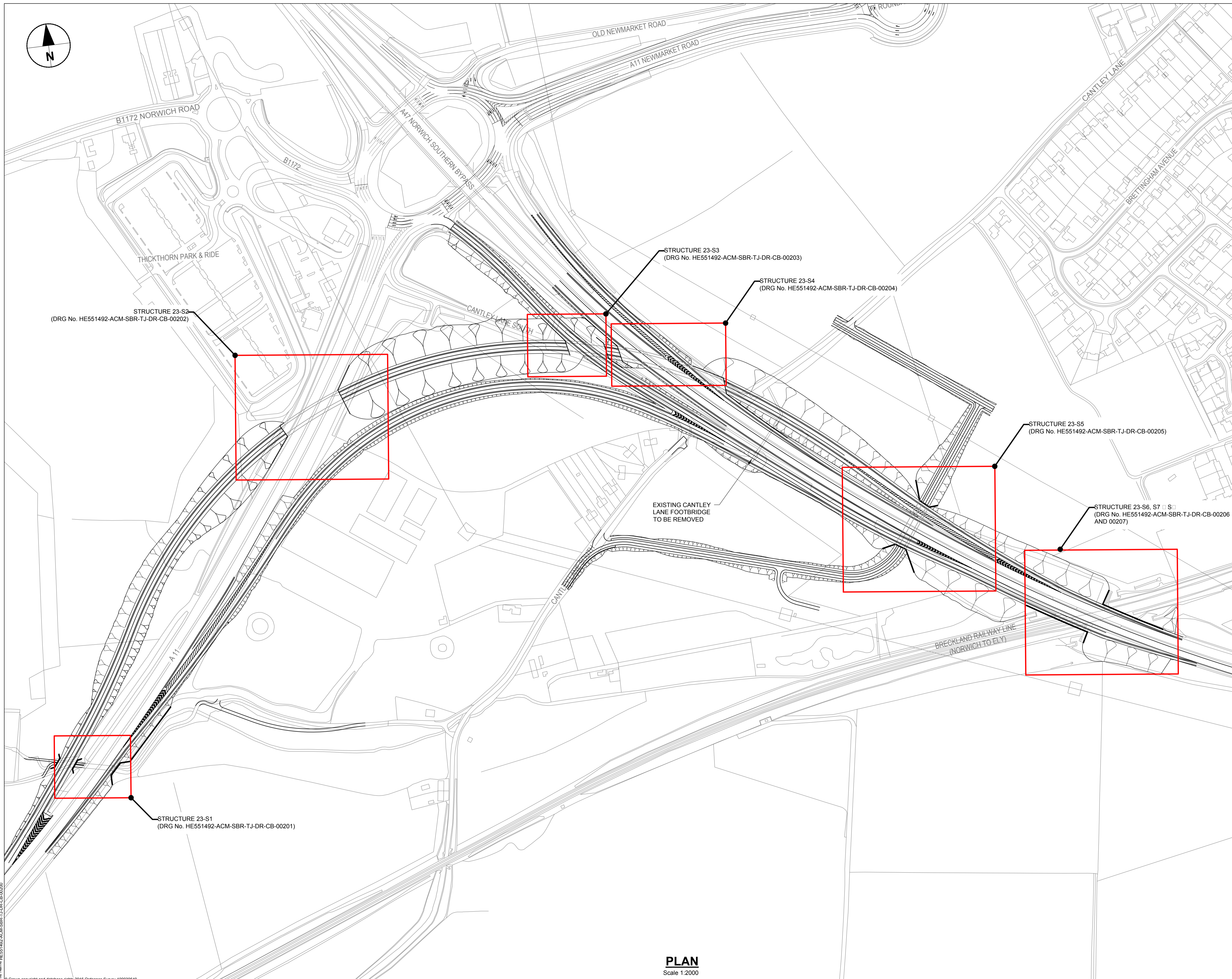
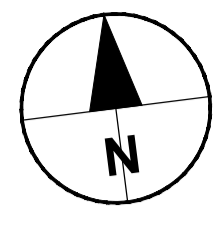


Purpose of issue				DCO SUBMISSION	
Project Title				A47/A11 THICKTHORN INTERCHANGE IMPROVEMENTS PCF STAGE 2	
Drawing Title				OPTION 4 LAND PLANS REGULATION 5(2)(i) SHEET 4 of 4	
Designed J/P	Drawn PJB	Checked PRB	Approved J/N	Date 09-06-2017	
Scale @ A1 1:1250				Suitability	
Drawing Number HE551492-ACM-LSI-TJ-DR-HE-01044				Rev S1	
cm				A1	

File Date: 06/14/2017 10:21 AM
File Name: HE551492-ACM-LSI-TJ-DR-HE-01044

Appendix L – Structures Drawings – Single Option





- NOTES
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
 2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 3. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN MILLIMETERS UNLESS DEFINED OTHERWISE.
 4. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.
 5. ROAD MARKINGS ARE INDICATIVE.

MINOR LAYOUT CHANGES	JAD	20/06/17	P02
FOR INFORMATION	JAD	10/05/17	P01
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways england

Project Title
**A47 CORRIDOR SCHEMES
PCF STAGE 2**

Drawing Title
**A47/A11 THICKTHORN
SINGLE OPTION
STRUCTURES NUMBERING**

Designed	Drawn	Checked	Approved	Date
AMW	JAD	AK	RQ	10/05/2017
Scale @ A1 AS SHOWN	Suitability S2			

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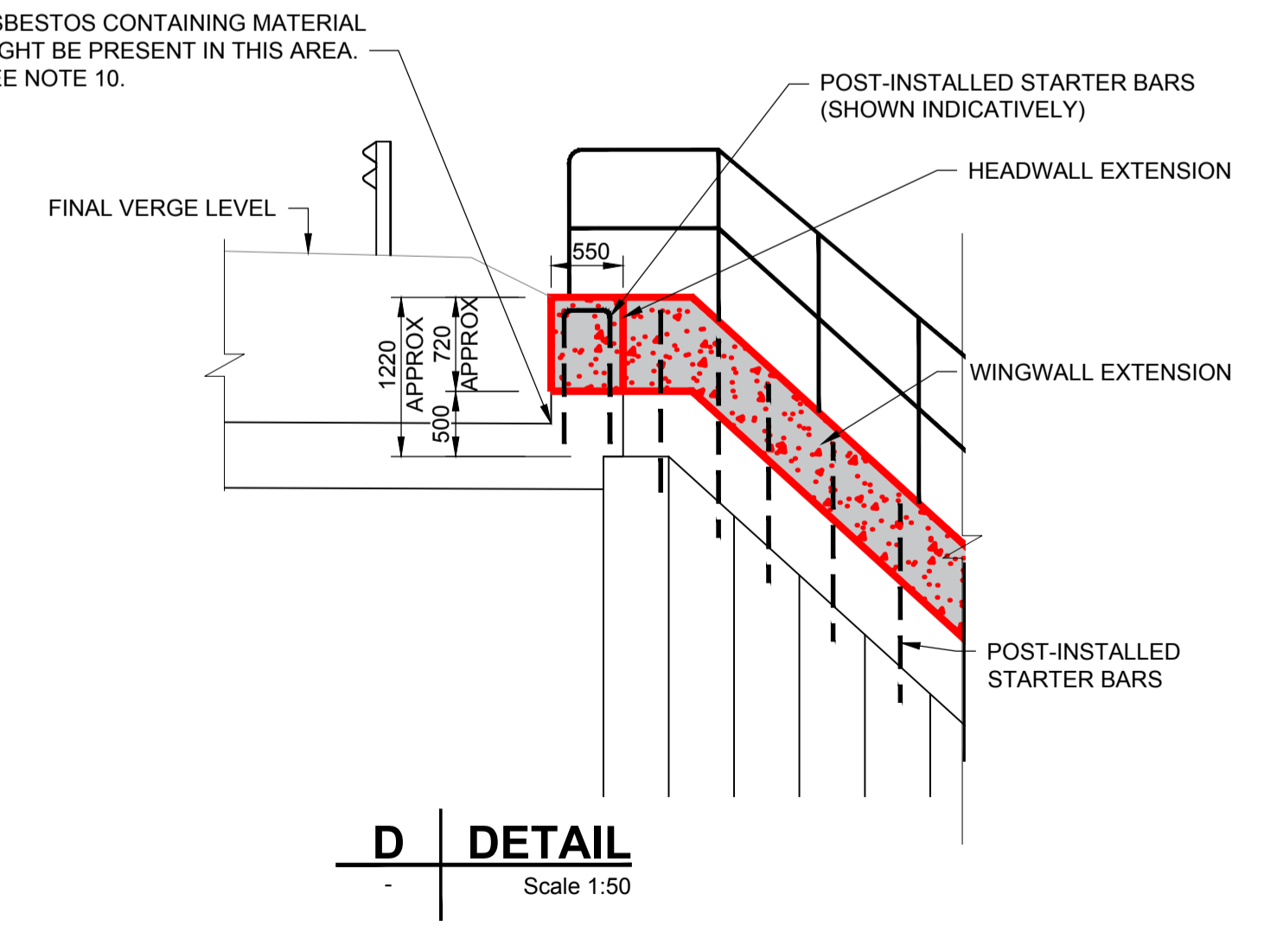
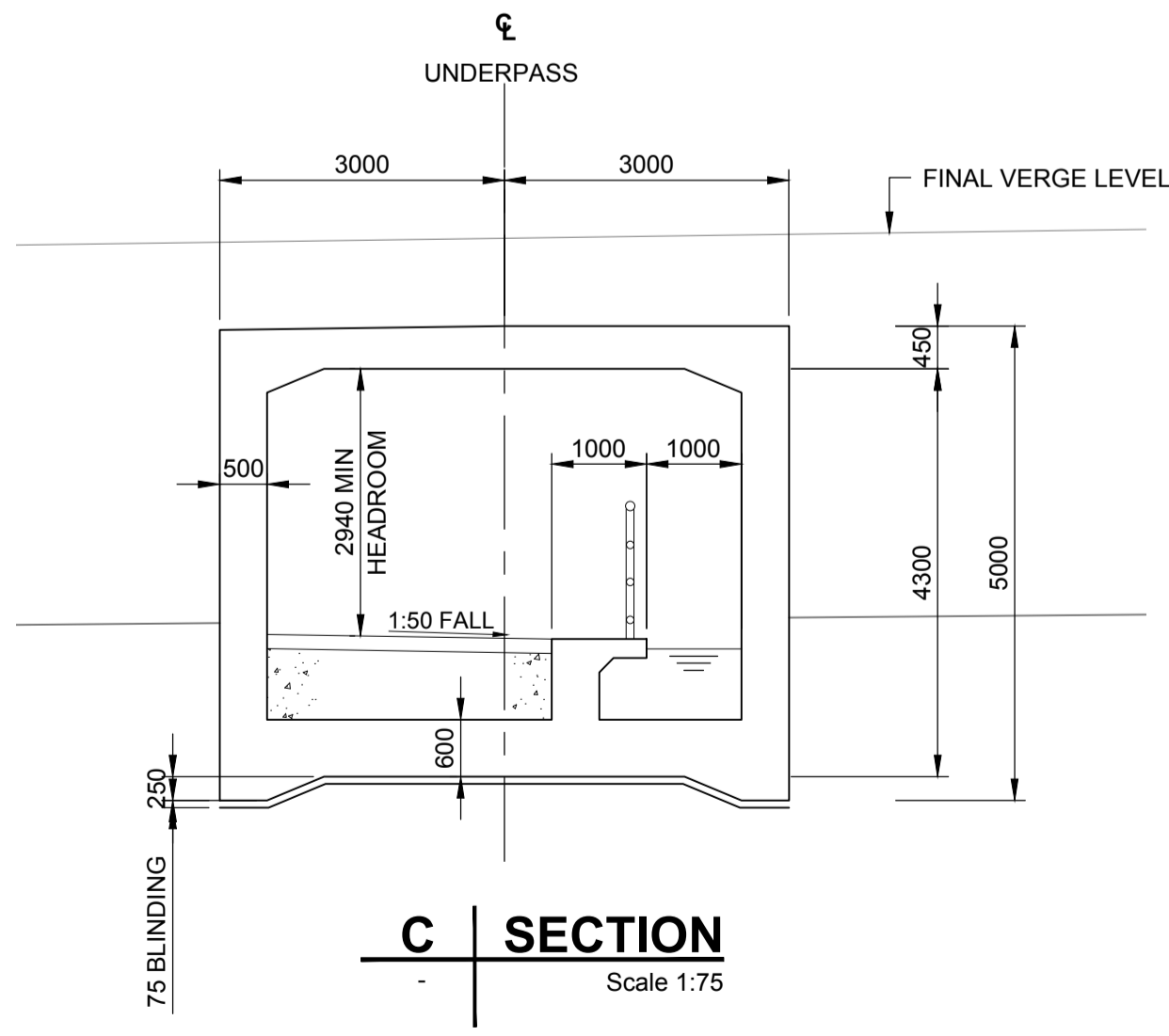
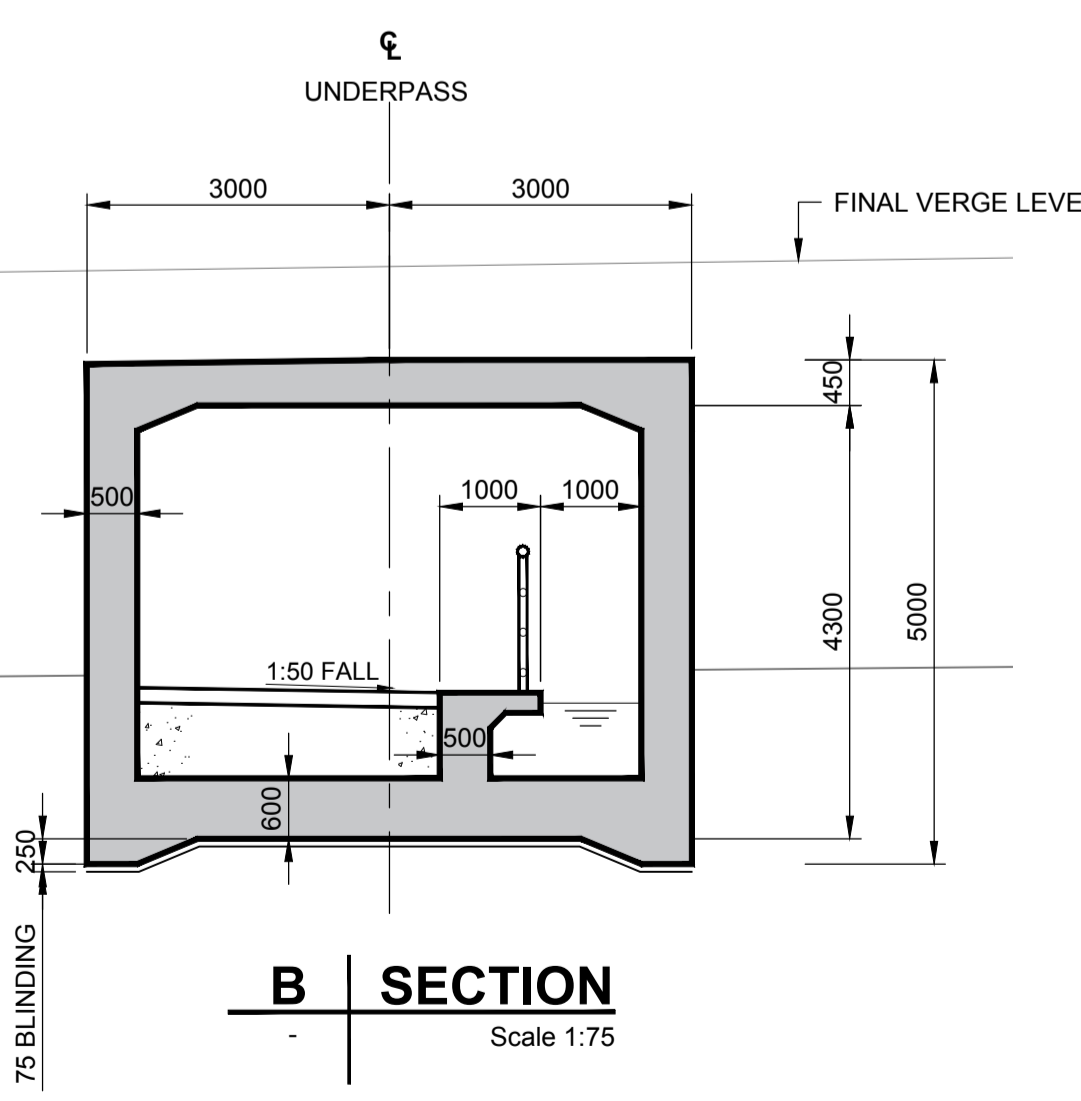
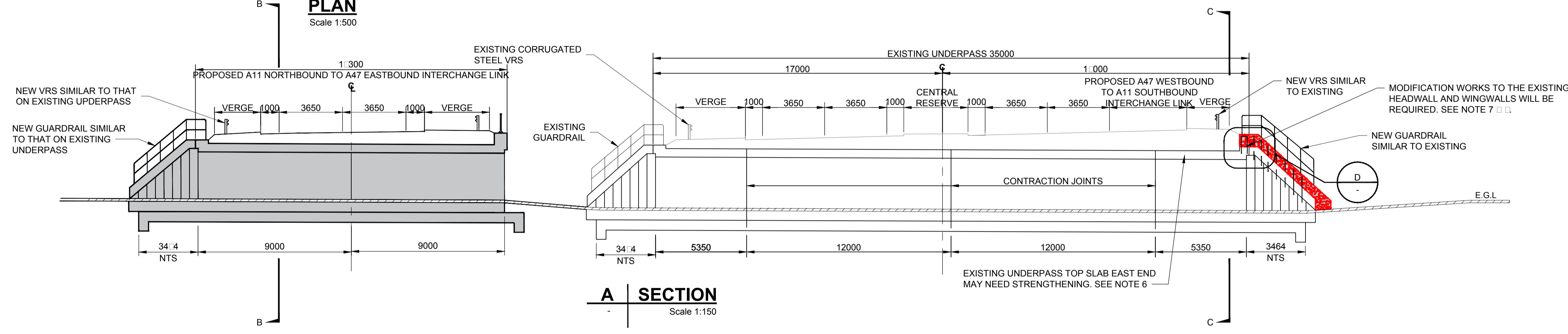
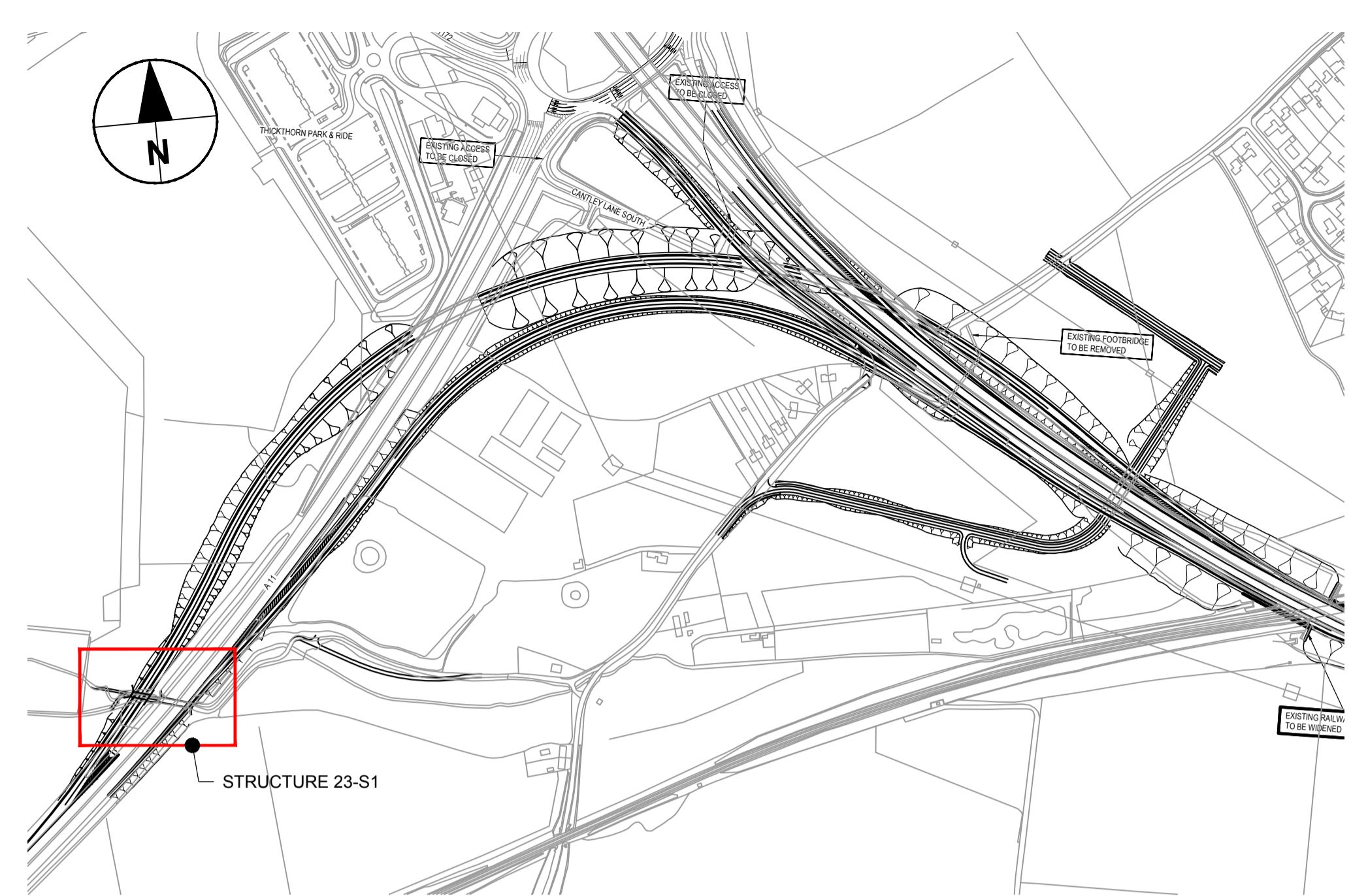
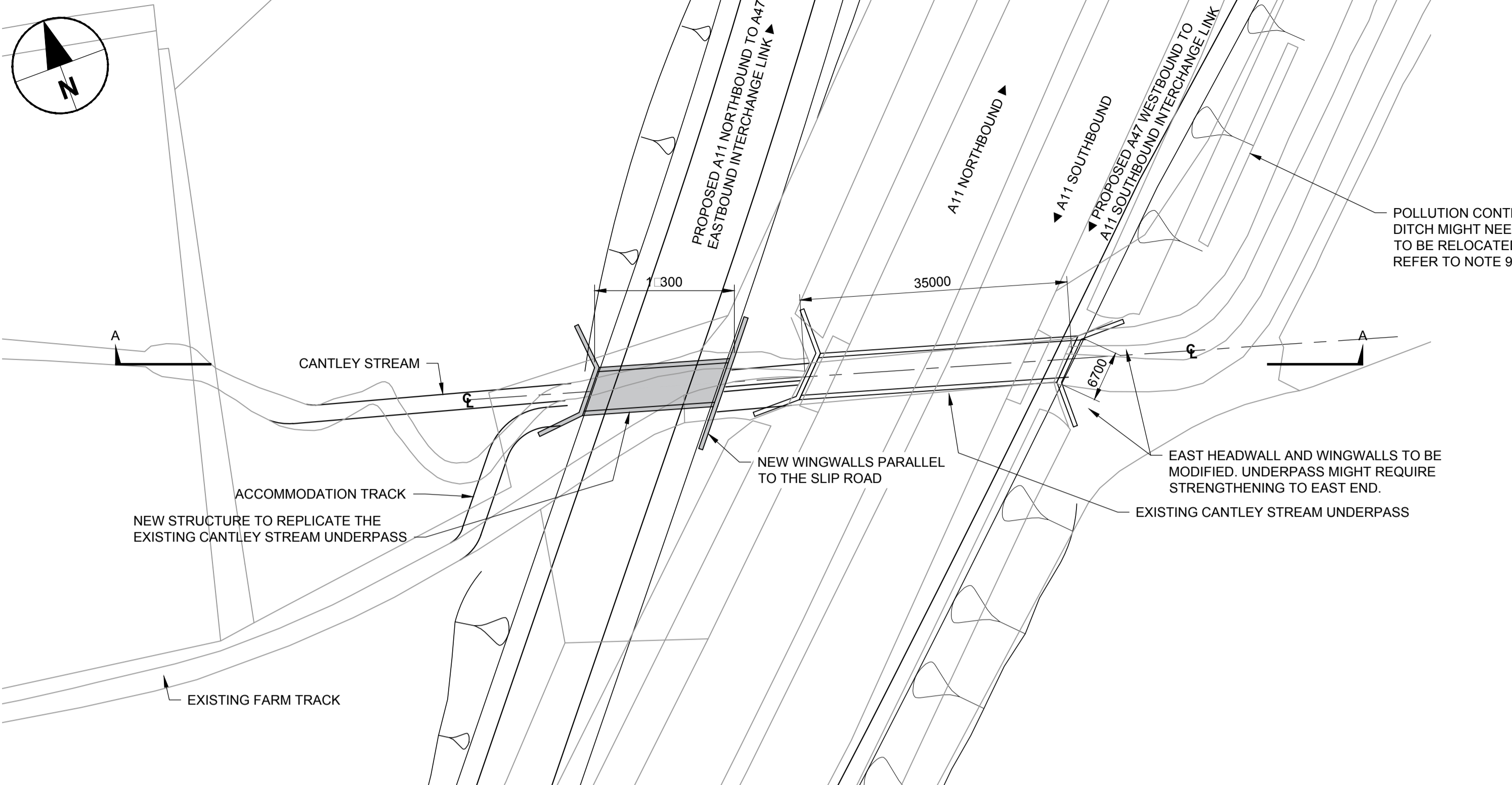
AECOM Infrastructure & Environment UK Limited
URS House, Home Lane
Bedford
MK40 1TS
Tel: +44 (0)1234 348 641
Fax: +44 (0)1234 261 268
www.aecom.com

AECOM

Drawing Number	Rev
HE551492-ACM-SBR-TJ-DR-CB-00200	P02

PLAN
Scale 1:2000

File Name: HE551492-ACM-SBR-TJ-DR-CB-00200
 File Date: 10/05/2017 14:48:04
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 4. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.
 5. ROAD MARKINGS ARE INDICATIVE.
 6. STRUCTURAL ASSESSMENT IS NEEDED IN ORDER TO DETERMINE WHETHER THE EXISTING STRUCTURE REQUIRES STRENGTHENING TO ACCOMMODATE THE PROPOSED CARRIAGEWAY LAYOUT.
 7. MODIFICATION OF THE EXISTING EAST HEADWALL AND WINGWALL WILL BE REQUIRED IN ORDER TO ACCOMMODATE THE INCREASED RETAINED HEIGHT OF THE PROPOSED ALIGNMENT.
 8. EXTENDING THE UNDERPASS TO THE EAST COULD BE CONSIDERED AS AN ALTERNATIVE TO RAISING THE EAST HEADWALL AND WINGWALLS.
 9. LIAISON WITH THE ENVIRONMENT AGENCY AND STAKEHOLDERS IS RECOMMENDED IN RELATION WITH THE TEMPORARY OR PERMANENT REALIGNMENT OF WATERCOURSES AND ITS IMPLICATIONS ON THE DESIGN OF AND WORKS TO UNDERPASSES. ADVICE SHALL BE SOUGHT ON THE POTENTIAL IMPACT OF THE PROJECT ON THE POLLUTION CONTROL DITCH AND ITS IMPLICATIONS.
 10. IT IS THOUGHT THAT ASBESTOS MAY BE PRESENT IN THE MATERIAL USED TO SEAL THE WATERPROOFING MEMBRANE TO THE EXISTING UNDERPASS ENDS. THE PROCEDURE FOR MANAGEMENT OF ASBESTOS SET OUT IN DMRB IAN63/05r3 SHALL BE FOLLOWED.

SECTION SIZES ARE SHOWN BASED ON THOSE OF THE EXISTING STRUCTURE. ALL DIMENSIONS OF STRUCTURAL ELEMENTS ARE INDICATIVE FOR CONCEPT DESIGN ONLY AND ARE SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED.

LEGEND

- PROPOSED ROAD LINE
- █ PROPOSED STRUCTURE EXTENSION

FOR INFORMATION	LJP	JN	20/06/17	P02
FOR INFORMATION	LJP	RQ	19/05/17	P01
Revision Details	By	Check	Date	Suffix
Purpose of issue				

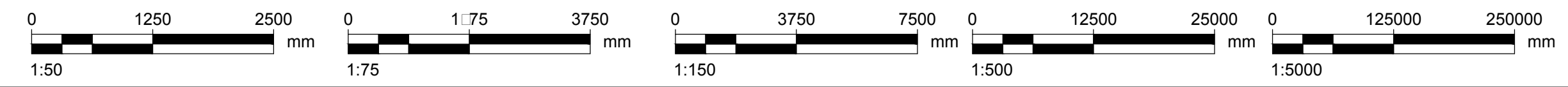
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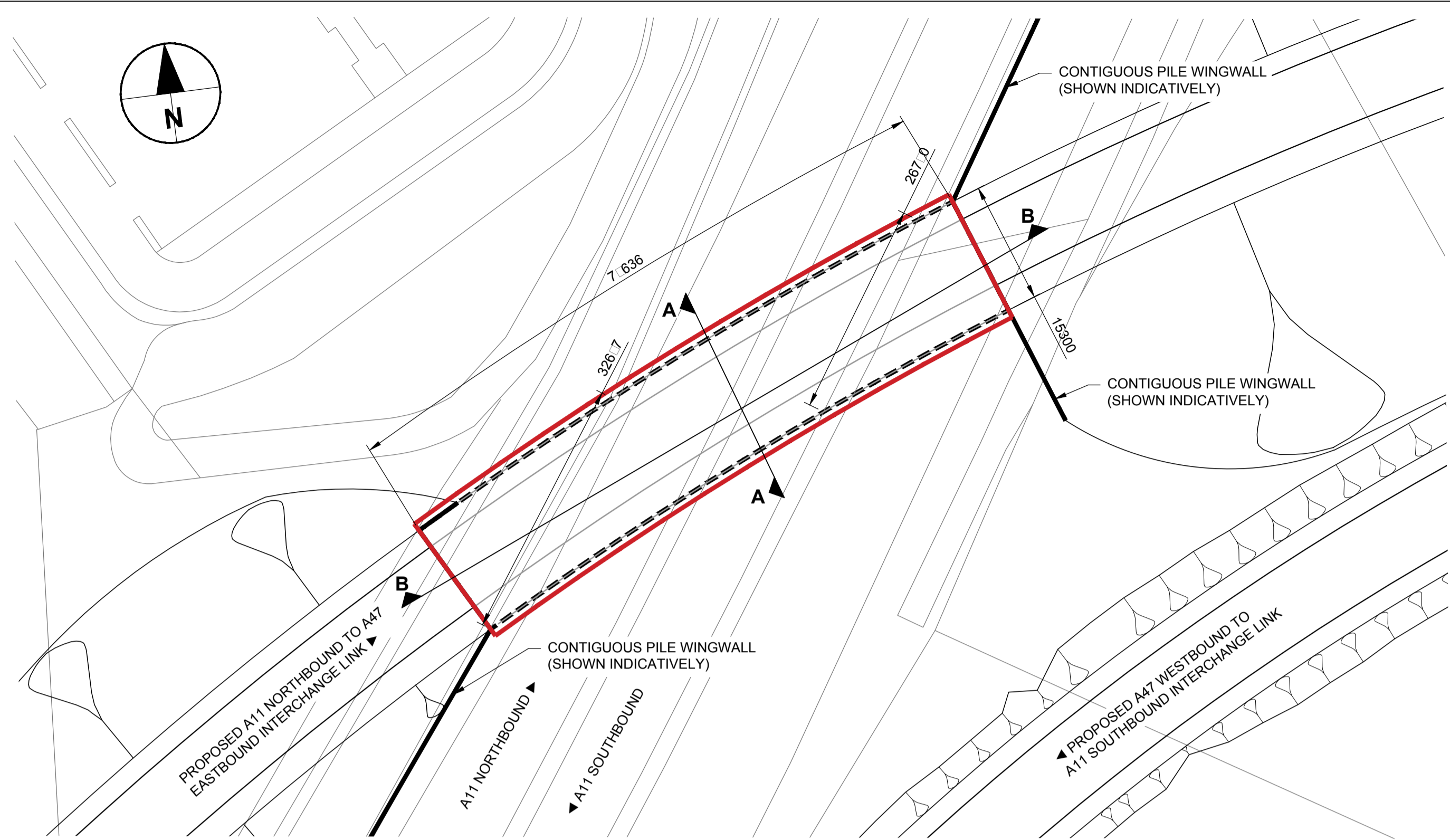
Client: Highways England
Woodlands Barton Lane Bedford MK41 7LW

A47 CORRIDOR SCHEMES PCF STAGE 2

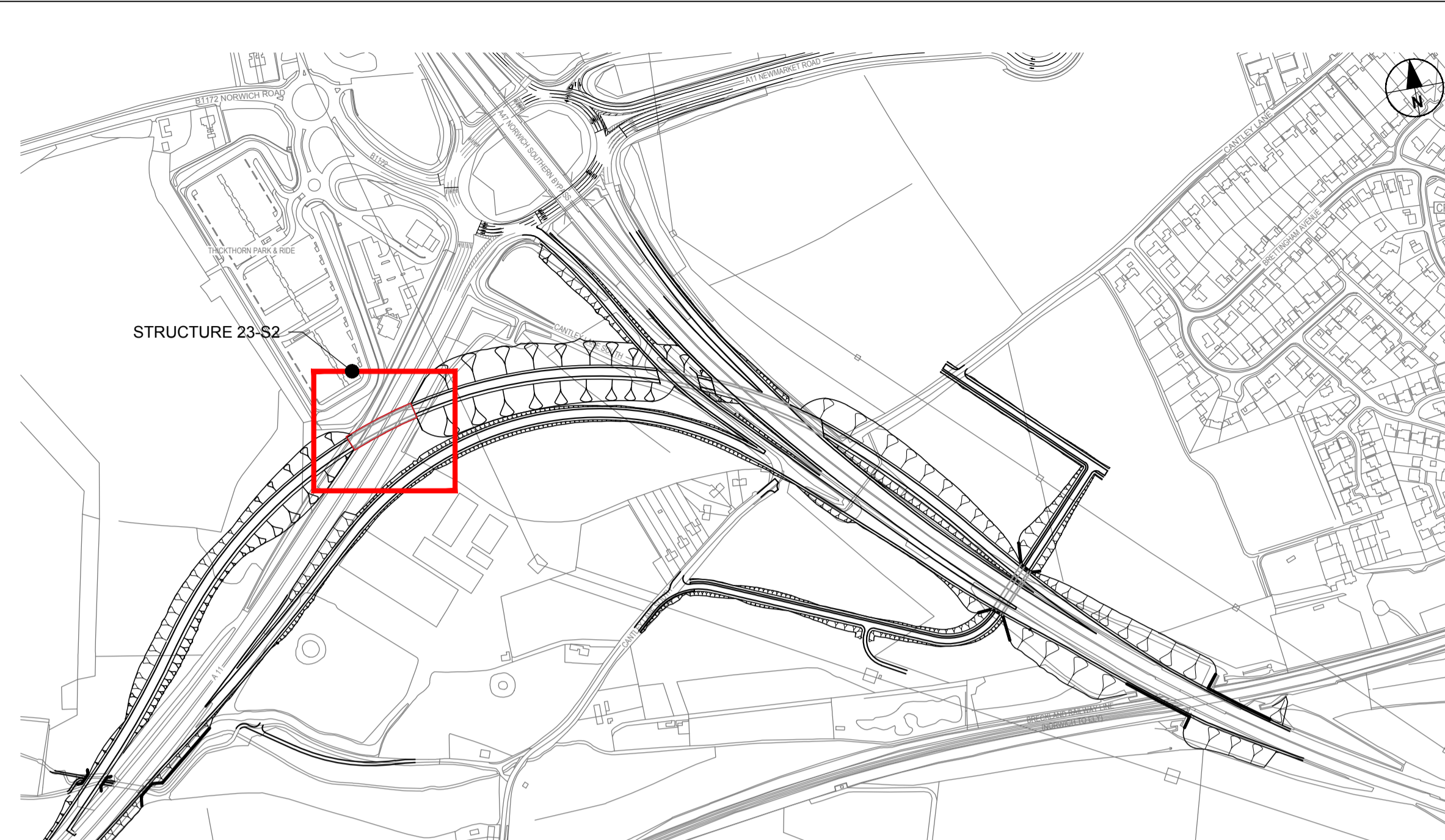
A47/A11 THICKTHORN SINGLE OPTION STRUCTURE 23-S1

Designed	Drawn	Checked	Approved	Date
AMW	LJP	AK	RQ	19/05/2017
Scale @ A1 AS SHOWN			Suitability S2	
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Drawing Number				Rev
HE551492-ACM-SBR-TJ-DR-CB-00201				P02





PLAN
Scale 1:500

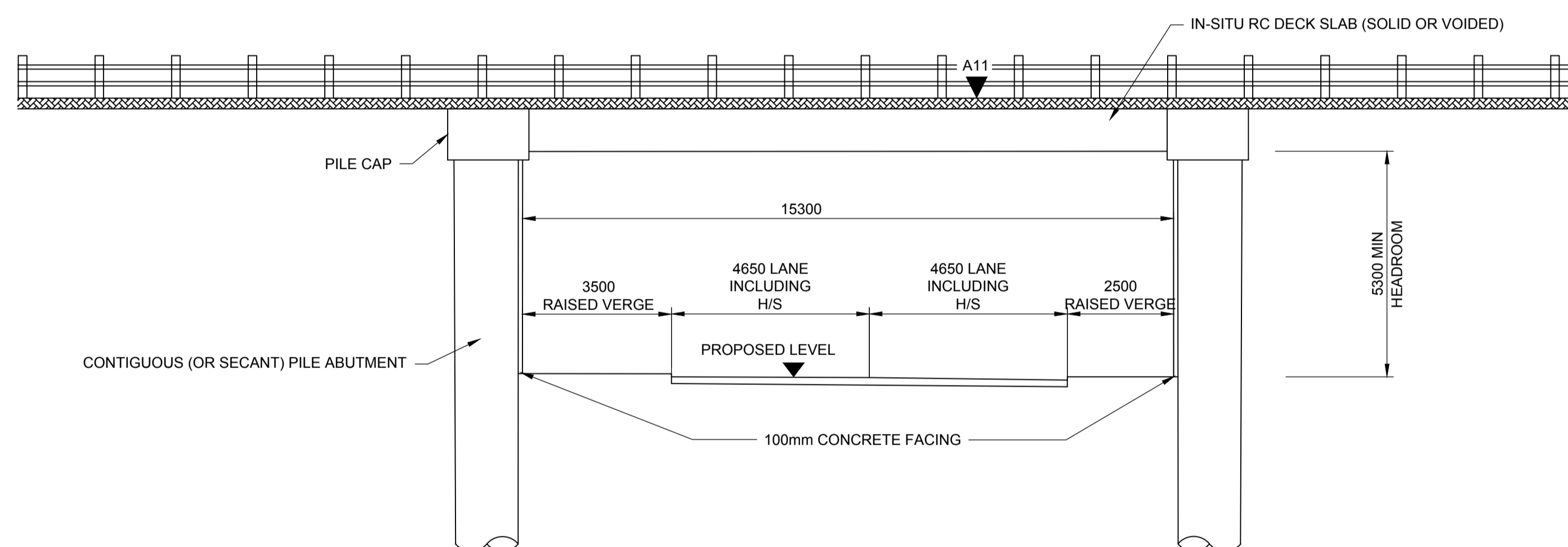


KEY PLAN
Scale 1:5000

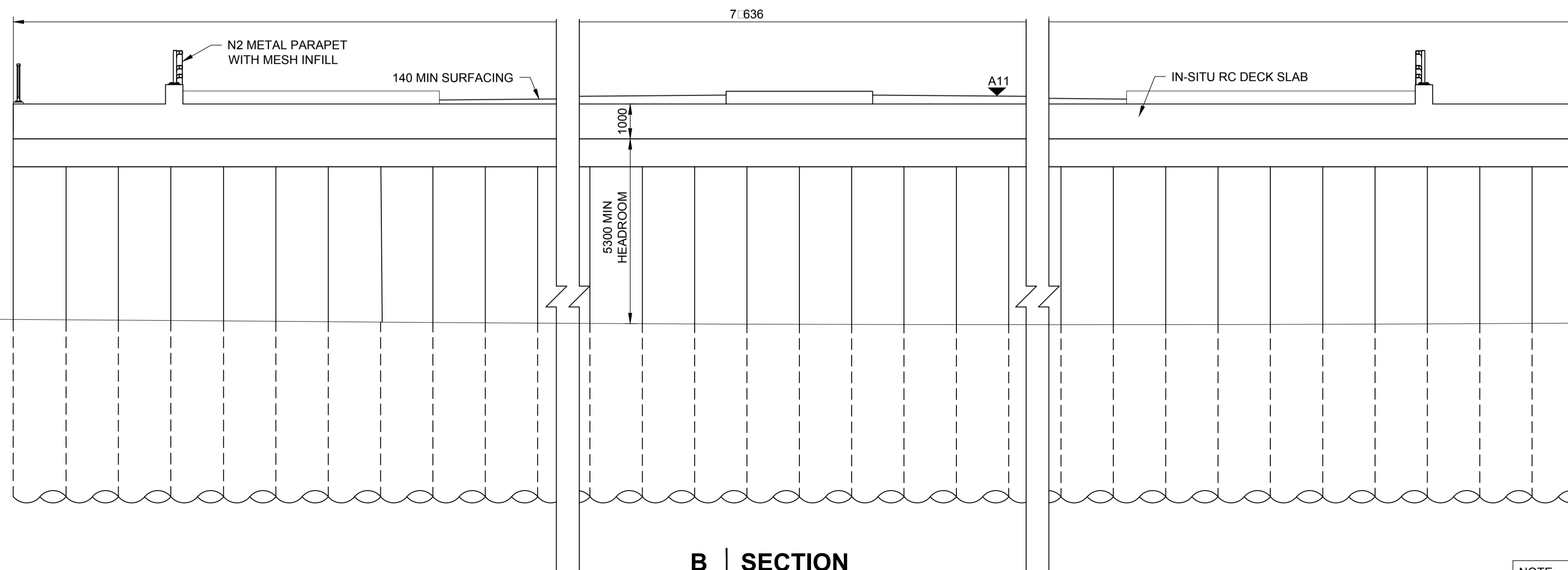
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- ROAD MARKINGS ARE INDICATIVE.
- WINGWALLS TO BE MADE OF CONTIGUOUS (OR SECANT) PILE WALLS.
- AESTHETIC CONCRETE CLADDING TO ABUTMENTS AND WINGWALLS IS PROPOSED.
- CONSULTATION WITH STATUTORY UNDERTAKERS IS STRONGLY RECOMMENDED IN ORDER TO IDENTIFY ANY UTILITIES IMPACTED BY THIS STRUCTURE. ANY POTENTIAL RELOCATION WOULD BE ACCOMMODATED EITHER ON TOP OF THE DECK OR BELOW THE PROPOSED ROAD LEVEL.
- SHOULD THIS OPTION BE PROGRESSED EARLY ENGAGEMENT WITH SPECIALIST CONTRACTORS IS RECOMMENDED PRIOR TO THE DESIGN OF THE CONTIGUOUS PILE WALLS.
- BRIDGE CONSTRUCTED IN TWO PHASES. TRAFFIC FROM BOTH DIRECTIONS TO BE ACCOMMODATED IN A SINGLE CARRIAGEWAY BY USING CONTRA-FLOW. TEMPORARY WIDENING OF THE CARRIAGEWAYS MAY BE NECESSARY AT EACH STAGE.

ALL DIMENSIONS OF STRUCTURAL ELEMENTS ARE INDICATIVE FOR CONCEPT DESIGN ONLY AND ARE SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED.



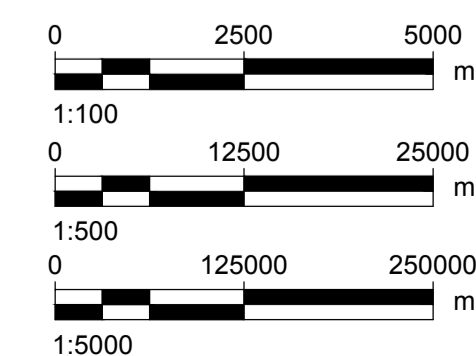
A SECTION
Scale 1:100



B SECTION
Scale 1:100

ROAD LEVEL OF PROPOSED A11 NORTHBOUND TO A47 EASTBOUND INTERCHANGE LINK

NOTE:
WINGWALLS OMITTED FOR CLARITY



FOR INFORMATION	LJP	20/06/17	P02
	JN		
FOR INFORMATION	LJP	19/05/17	P01
	RQ		
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways england

Project Title
**A47 CORRIDOR SCHEMES
PCF STAGE 2**

Drawing Title
**A47/A11 THICKTHORN
SINGLE OPTION
STRUCTURE 23-S2**

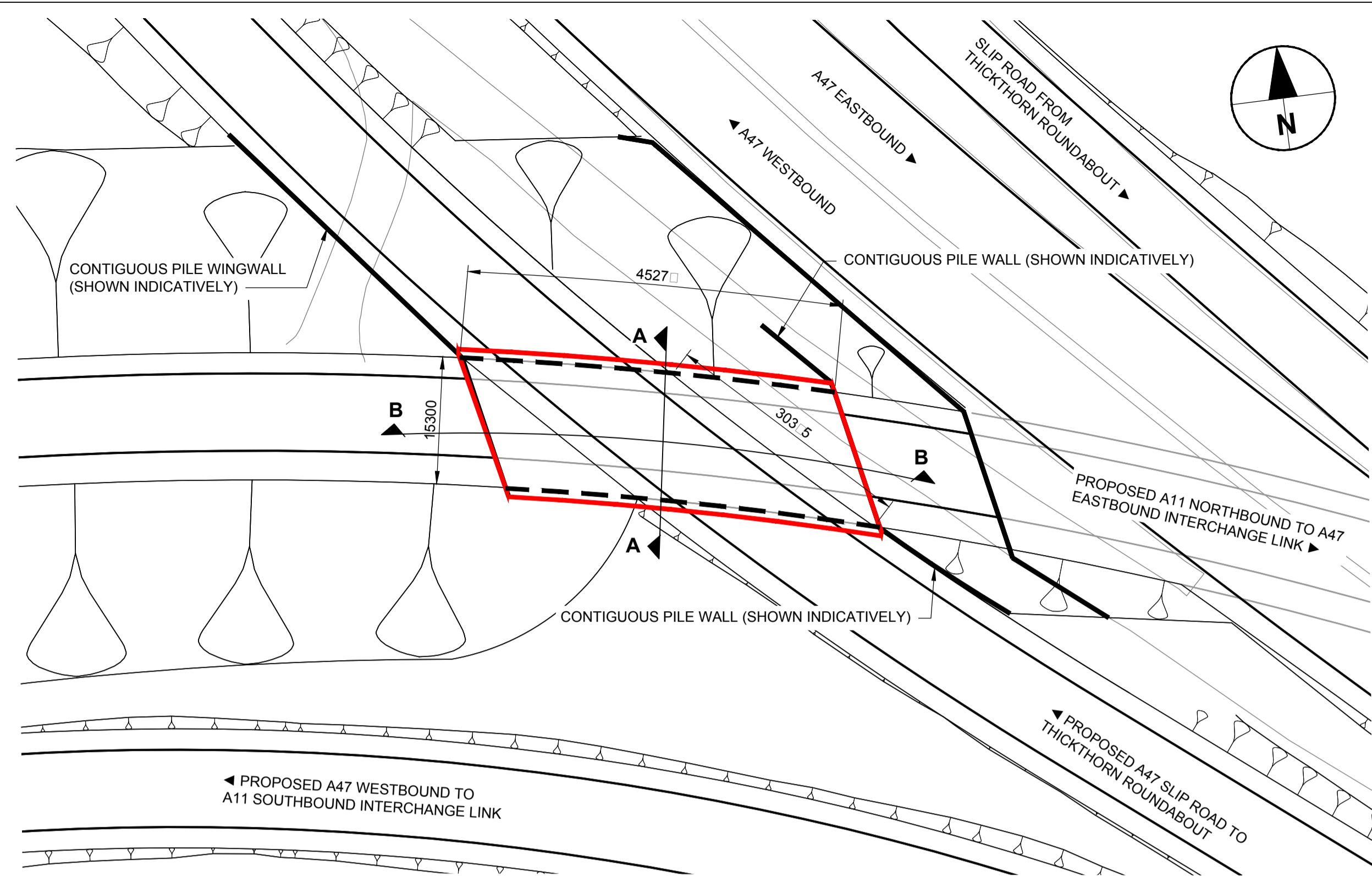
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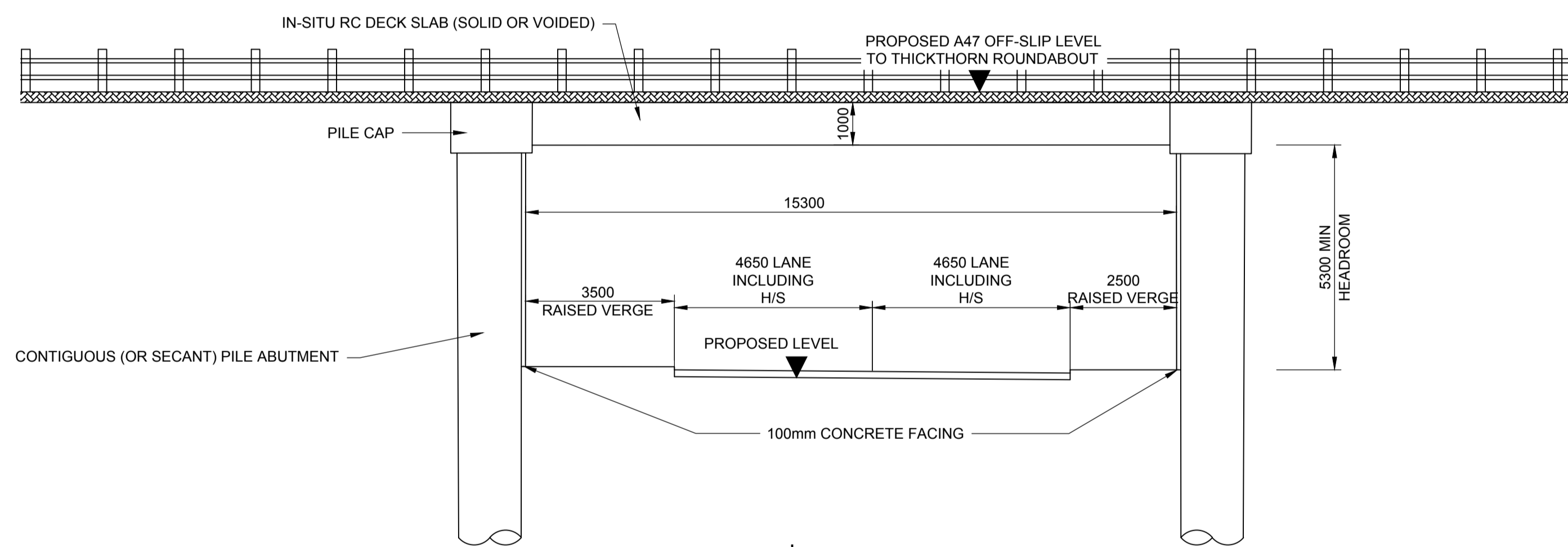
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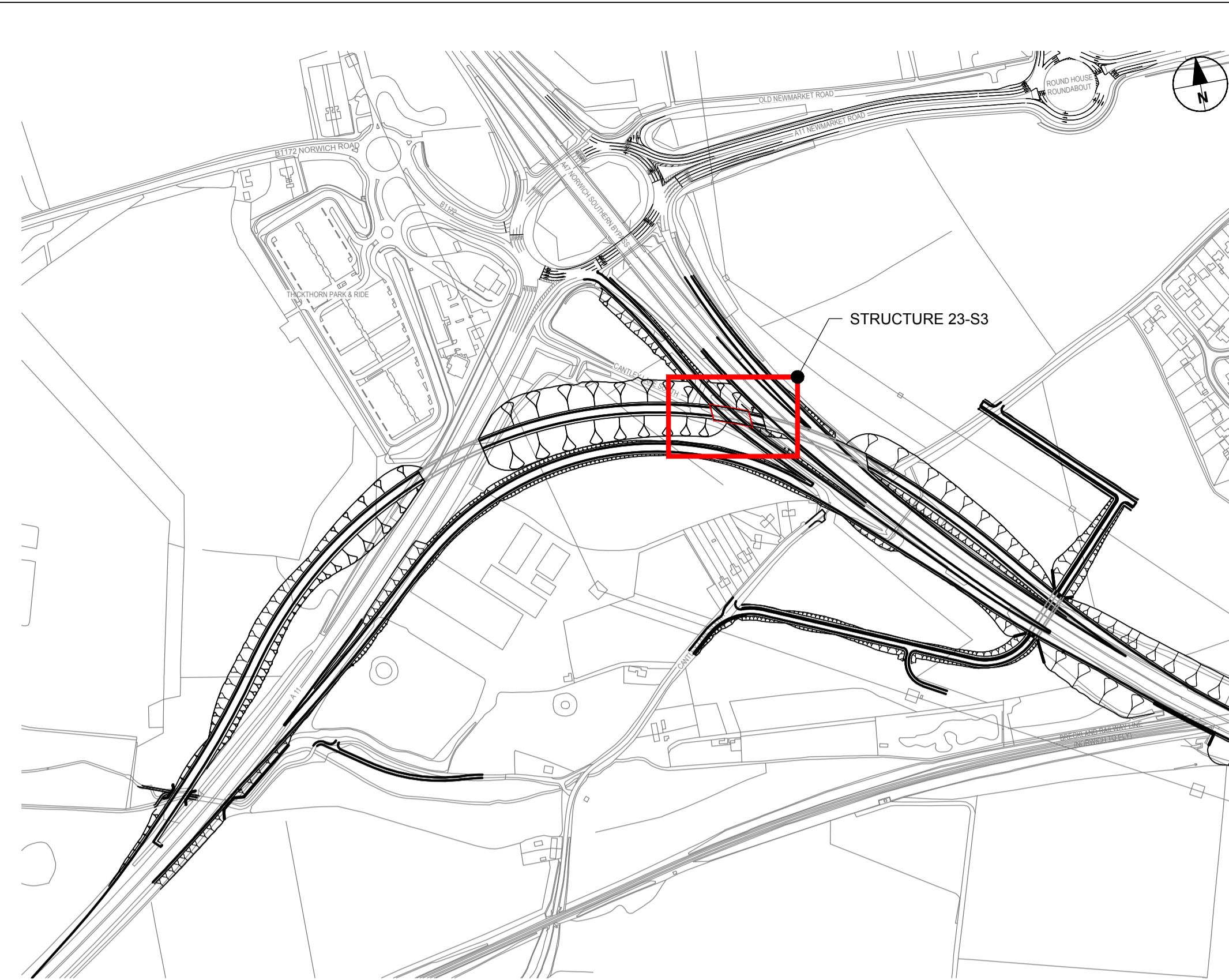
Drawing Number HE551492-ACM-SBR-TJ-DR-CB-00202	Rev P02
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PLAN
Scale 1:500



A SECTION
Scale 1:100



KEY PLAN
Scale 1:5000

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 - WINGWALLS TO BE MADE OF CONTIGUOUS PILE WALLS.
 - AESTHETIC CONCRETE CLADDING TO ABUTMENTS AND WINGWALLS IS PROPOSED.
 - CONSULTATION WITH STATUTORY UNDERTAKERS IS STRONGLY RECOMMENDED IN ORDER TO IDENTIFY ANY UTILITIES IMPACTED BY THIS STRUCTURE. ANY POTENTIAL RELOCATION WOULD BE ACCOMMODATED EITHER ON TOP OF THE DECK OR BELOW THE PROPOSED ROAD LEVEL.
 - SHOULD THIS OPTION BE PROGRESSED EARLY ENGAGEMENT WITH SPECIALIST CONTRACTORS IS RECOMMENDED PRIOR TO THE DESIGN OF THE CONTIGUOUS PILE WALLS.
 - SIGNIFICANT IMPACT TO THE TRAFFIC ON THE A11 SLIP ROAD IS ANTICIPATED AND APPROPRIATE TRAFFIC MANAGEMENT AND ENABLING WORKS PLANNING MUST BE IMPLEMENTED IN ORDER TO MITIGATE ANY DISRUPTION AND TRAFFIC CONGESTION ARISING FROM CONSTRUCTION OF THE UNDERBRIDGE. TEMPORARY WIDENING OF THE EXISTING SLIP ROAD CARRIAGEWAY COULD BE CONSIDERED TO ACCOMMODATE THE TRAFFIC WHILE CONSTRUCTION IS TAKING PLACE.

ALL DIMENSIONS OF STRUCTURAL ELEMENTS ARE INDICATIVE FOR CONCEPT DESIGN ONLY AND ARE SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED.

Revision Details	By	Check	Date	Suffix
FOR INFORMATION	LJP	JN	20/06/17	P02
	LJP	RQ	19/05/17	P01

FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways
england

Project Title
**A47 CORRIDOR SCHEMES
PCF STAGE 2**

Drawing Title
**A47/A11 THICKTHORN
SINGLE OPTION
STRUCTURE 23-S3**

Designed	Drawn	Checked	Approved	Date
AMW	LJP	AT	RQ	19/05/2017

Scale @ A1
AS SHOWN

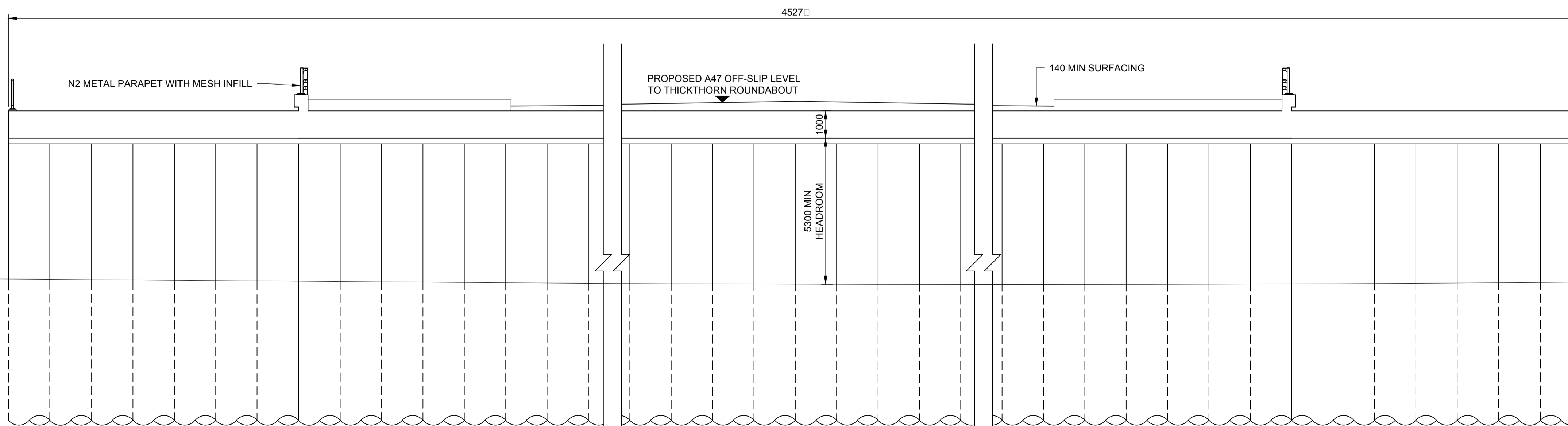
Suitability
S2

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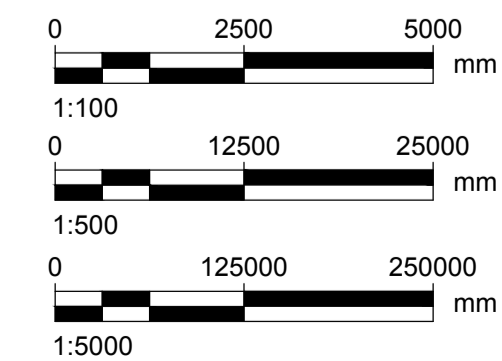
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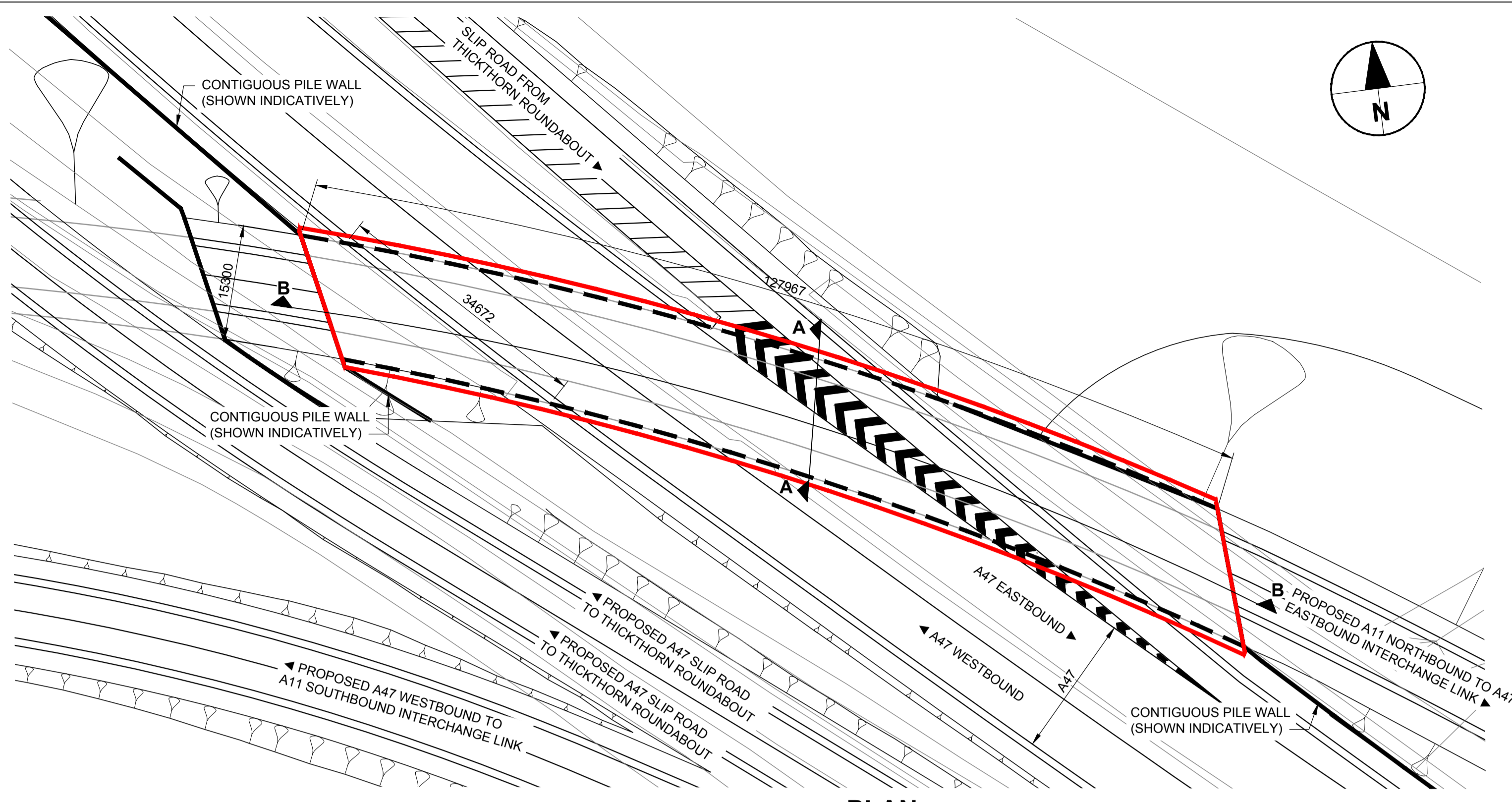
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HE551492-ACM-SBR-TJ-DR-CB-00203	P02



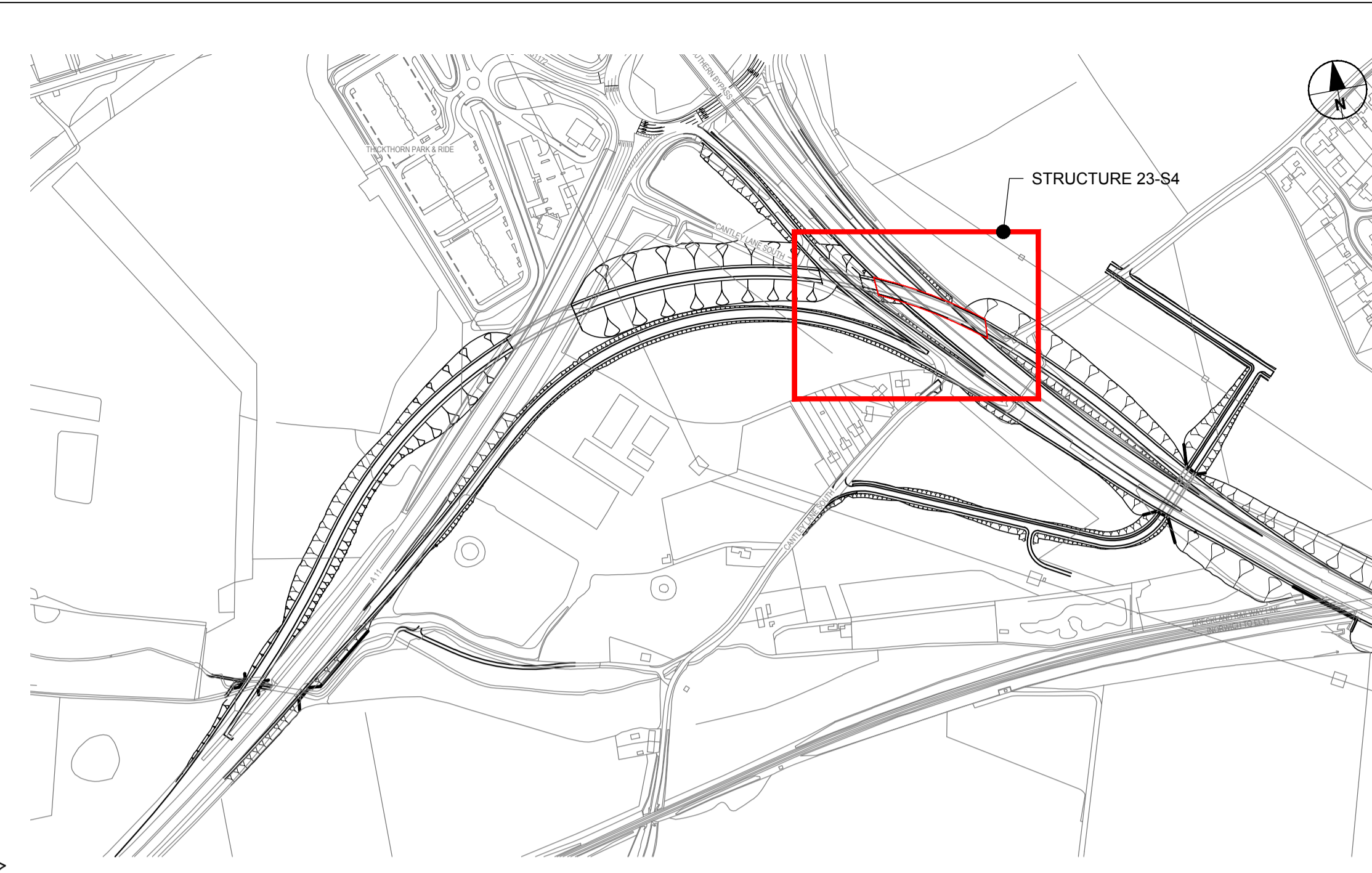
B SECTION
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NOTE:
WINGWALLS OMITTED FOR CLARITY



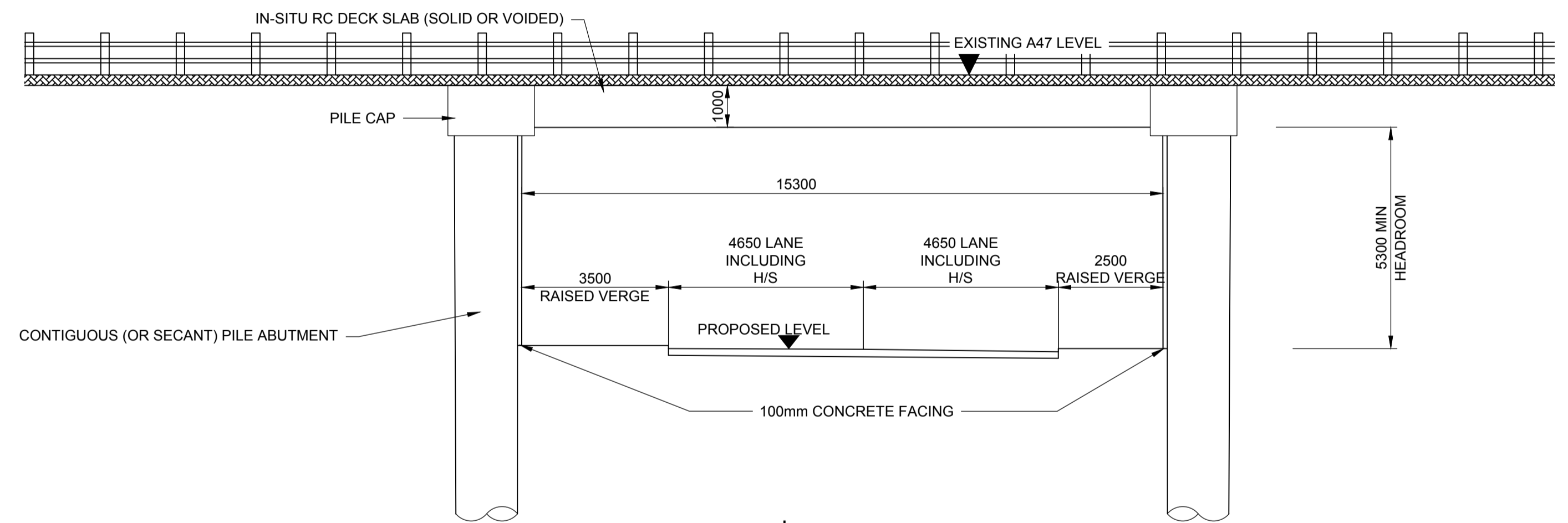


PLAN
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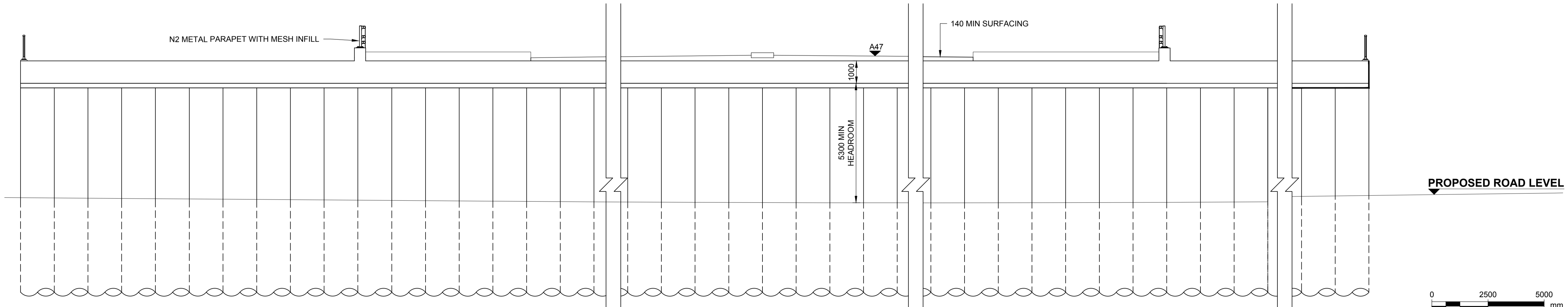


KEY PLAN
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 - SHOULD THIS OPTION BE PROGRESSED EARLY ENGAGEMENT WITH SPECIALIST CONTRACTORS IS RECOMMENDED PRIOR TO THE DESIGN OF THE CONTIGUOUS PILE WALLS.
 - BRIDGE CONSTRUCTED IN TWO PHASES. TRAFFIC FROM BOTH DIRECTIONS TO BE ACCOMMODATED IN A SINGLE CARRIAGEWAY BY USING CONTRA-FLOW. TEMPORARY WIDENING OF THE CARRIAGEWAYS MAY BE NECESSARY AT EACH STAGE.



A SECTION
Scale 1:100



B SECTION
Scale 1:100

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FOR INFORMATION	LJP	20/06/17	P02
	JN		
FOR INFORMATION	LJP	19/05/17	P01
	RQ		
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways england

**A47 CORRIDOR SCHEMES
PCF STAGE 2**

**A47/A11 THICKTHORN
SINGLE OPTION
STRUCTURE 23-S4**

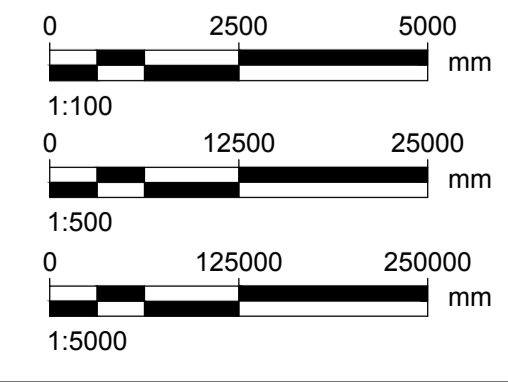
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Scale @ A1 AS SHOWN	Suitability S2			

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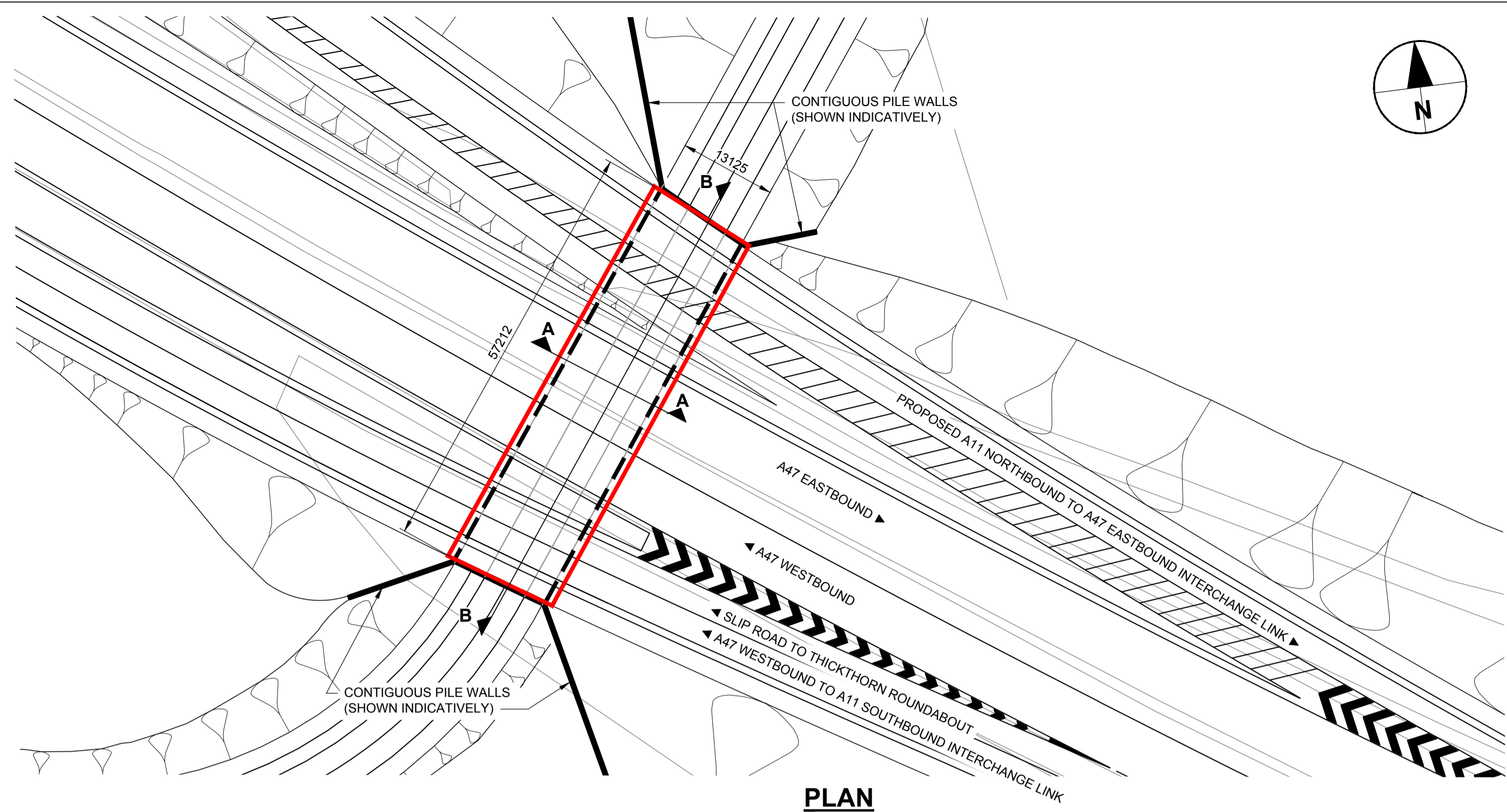
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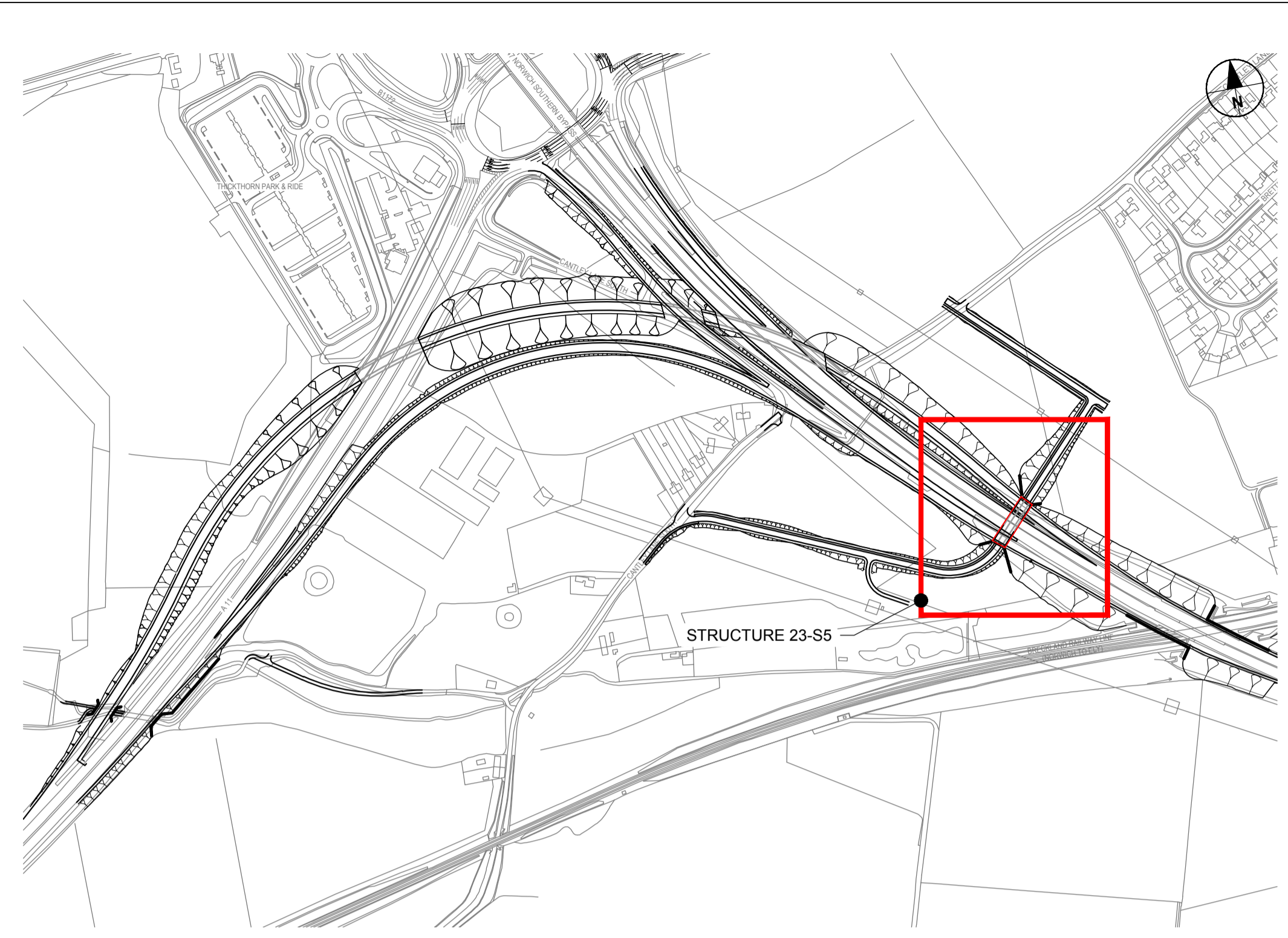
Drawing Number HE551492-ACM-SBR-TJ-DR-CB-00204	Rev P02
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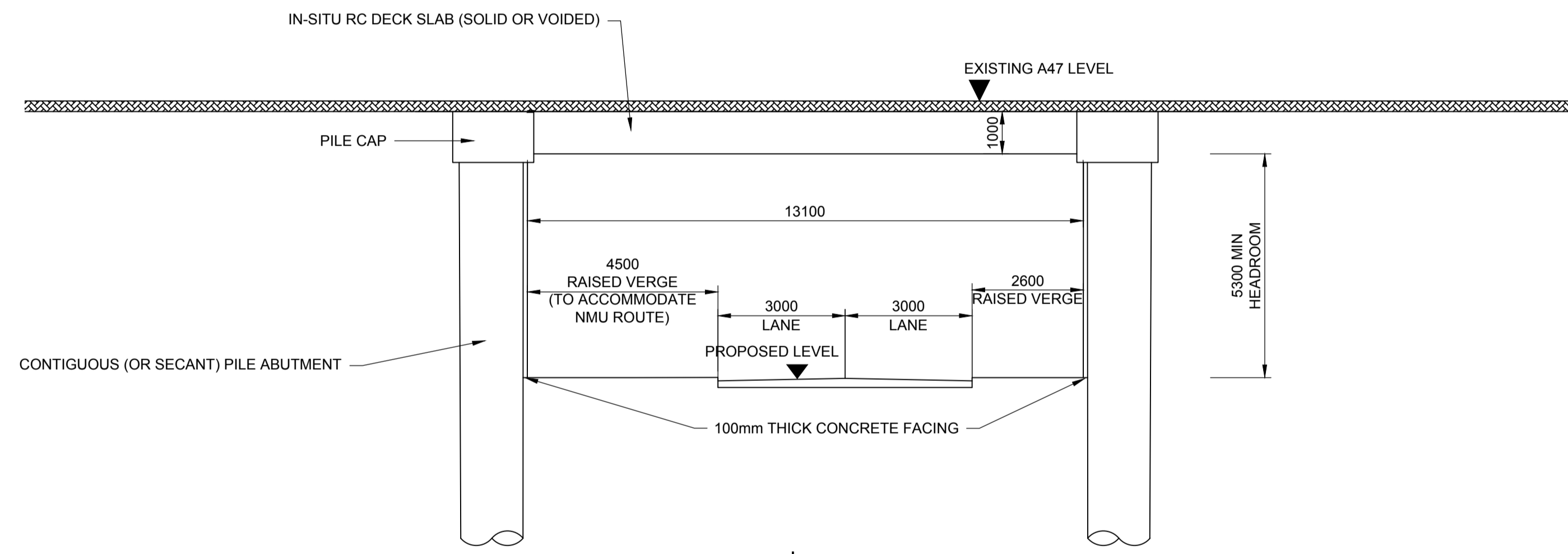
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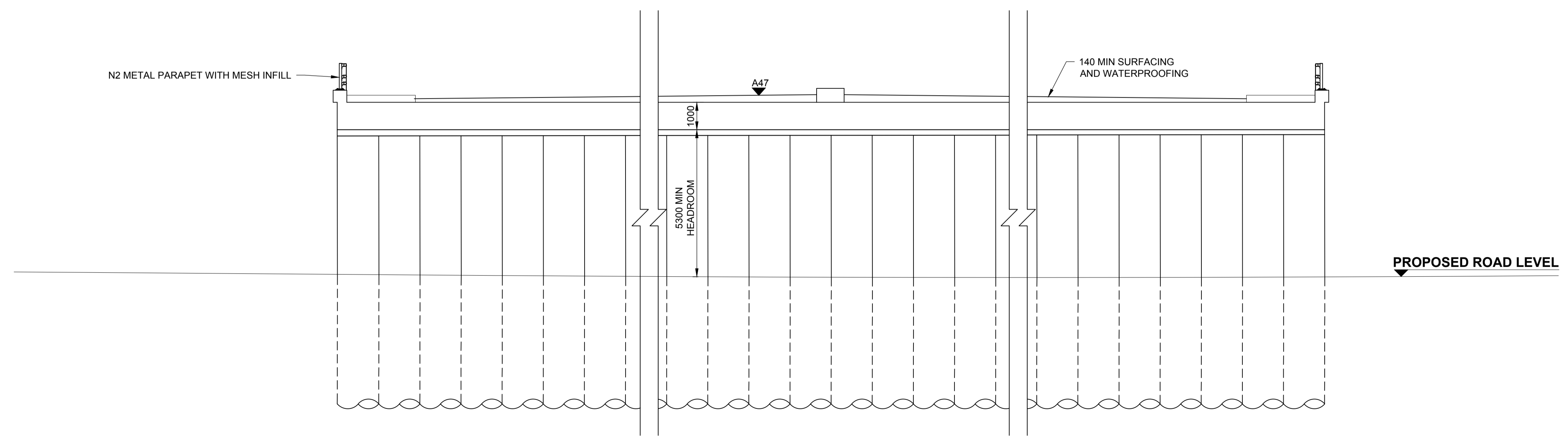
PLAN
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KEY PLAN
Scale 1:5000



A SECTION
Scale 1:100



B SECTION
Scale 1:100

NOTE:
WINGWALLS OMITTED FOR CLARITY

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 - AESTHETIC CONCRETE CLADDING TO ABUTMENTS AND WINGWALLS IS PROPOSED.
 - SHOULD THIS OPTION BE FINALLY PROGRESSED THE A47 CANTLEY ROAD FOOTBRIDGE WOULD NEED TO BE DEMOLISHED. PROVISION HAS BEEN MADE FOR THE REINSTATEMENT OF ANY SEVERED ROUTES THROUGH THIS UNDERPASS.
 - CONSULTATION WITH STATUTORY UNDERTAKERS IS STRONGLY RECOMMENDED IN ORDER TO IDENTIFY ANY UTILITIES IMPACTED BY THIS STRUCTURE. ANY POTENTIAL RELOCATION WOULD BE ACCOMMODATED EITHER ON TOP OF THE DECK OR BELOW THE PROPOSED ROAD LEVEL.
 - SHOULD THIS OPTION BE PROGRESSED EARLY ENGAGEMENT WITH SPECIALIST CONTRACTORS IS RECOMMENDED PRIOR TO THE DESIGN OF THE CONTIGUOUS PILE WALLS.
 - BRIDGE CONSTRUCTED IN TWO PHASES. TRAFFIC FROM BOTH DIRECTIONS TO BE ACCOMMODATED IN A SINGLE CARRIAGEWAY BY USING CONTRA-FLOW. TEMPORARY WIDENING OF THE CARRIAGEWAYS MAY BE NECESSARY AT EACH STAGE.

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FOR INFORMATION	LJP	20/06/17	P02
	JN		
FOR INFORMATION	LJP	19/05/17	P01
	RQ		
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of
highways
england

Project Title
**A47 CORRIDOR SCHEMES
PCF STAGE 2**

Drawing Title
**A47/A11 THICKTHORN
SINGLE OPTION
STRUCTURE 23-S5**

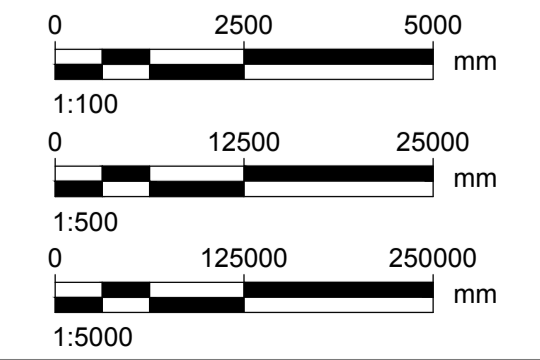
Designed AMW	Drawn LJP	Checked AK	Approved RQ	Date 19/05/2017
Scale @ A1 AS SHOWN	Suitability S2			

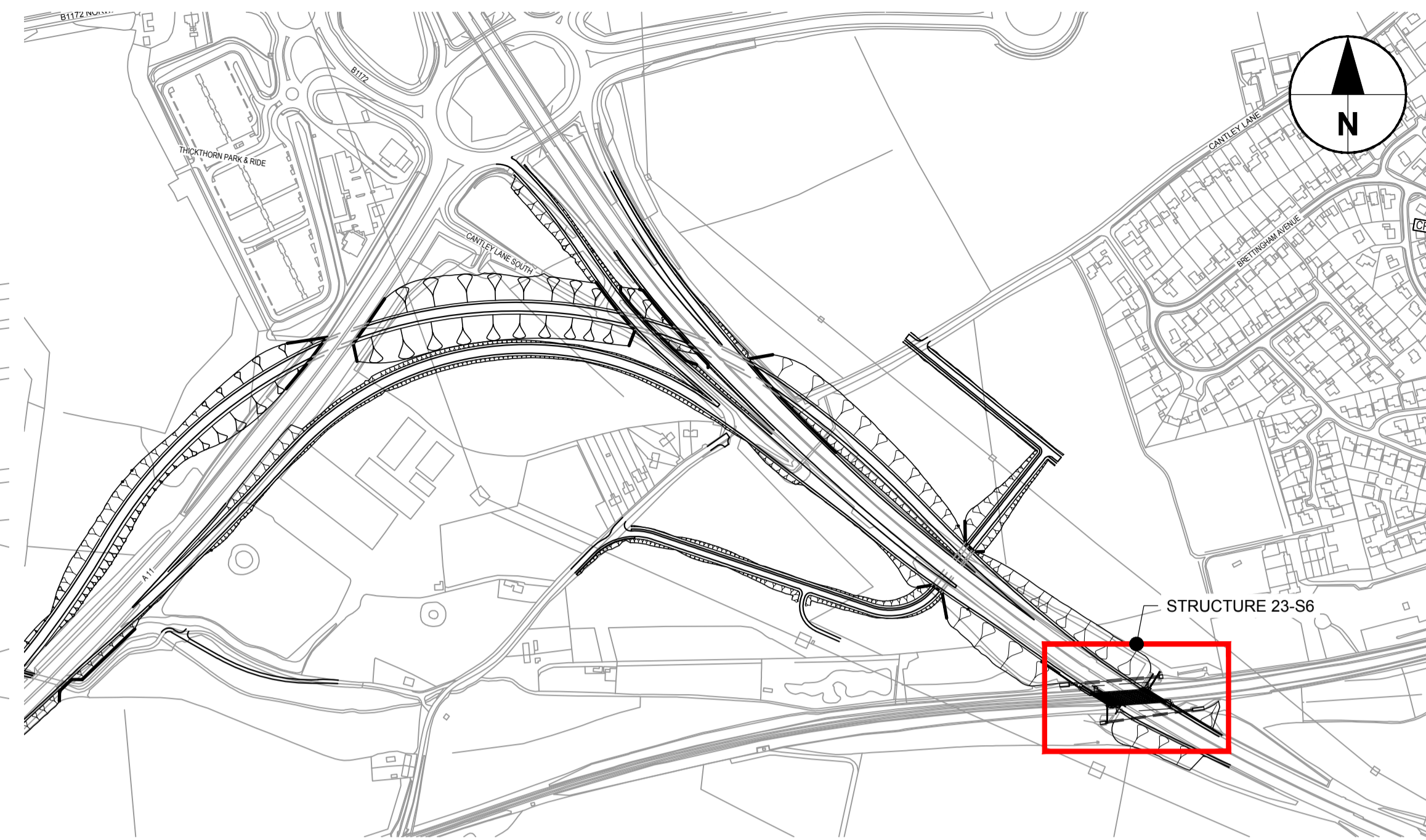
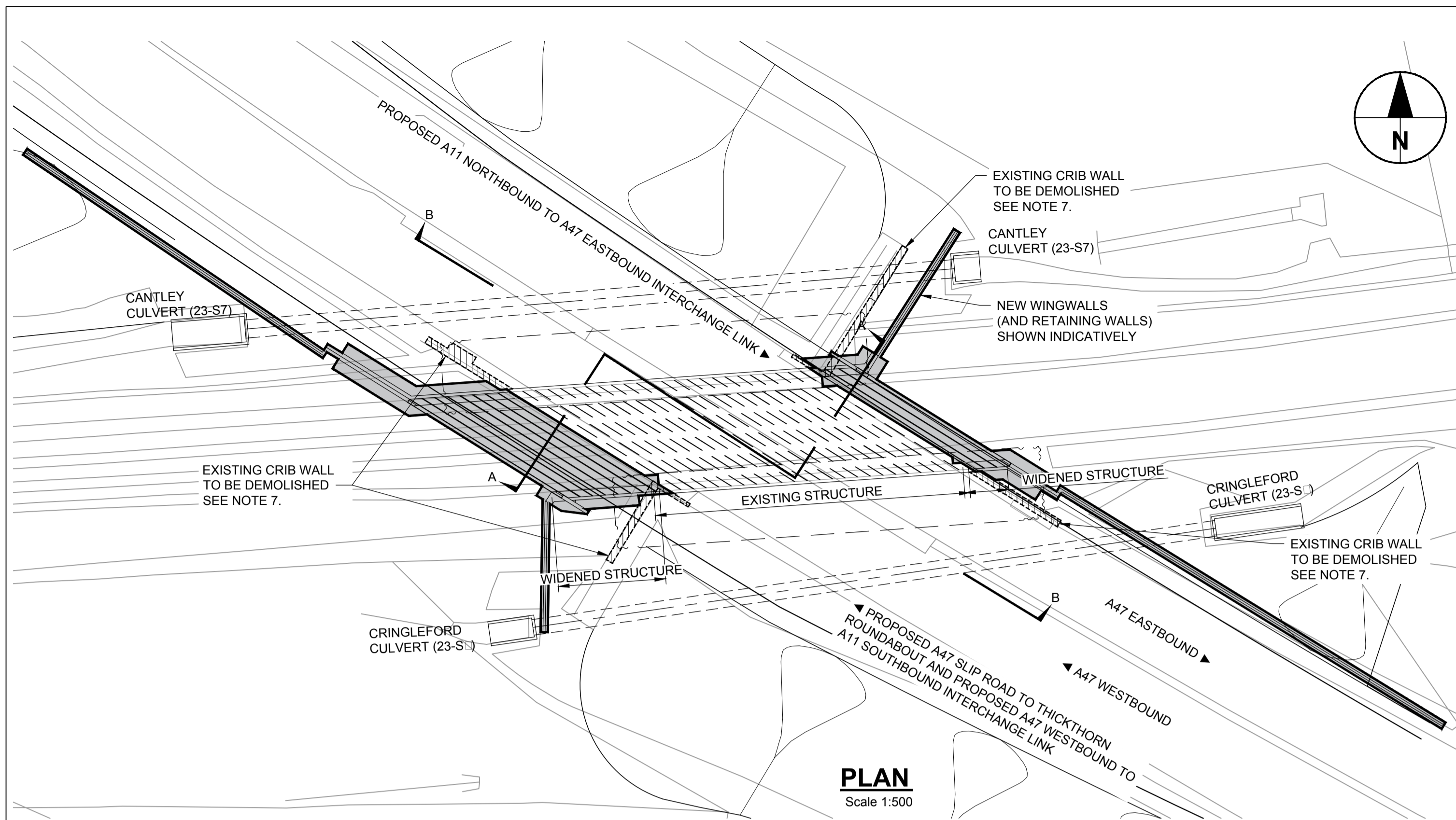
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- NEW WINGWALLS AND/OR RETAINING WALLS WILL BE REQUIRED IN ADDITION TO PARTIAL/TOTAL DEMOLITION OF EXISTING CRIB WALLS. IT IS ANTICIPATED THAT THE NEW RETAINING WALLS WILL COMPRISE REINFORCED CONCRETE WALLS FOUNDED ON BORED PILES. CRIB WALLS SIMILAR TO THE EXISTING COULD ALSO BE CONSIDERED AS ALTERNATIVE.
- STRUCTURAL ASSESSMENT IS REQUIRED IN ORDER TO DETERMINE WHETHER THE EXISTING STRUCTURE (INCLUDING THE FOUNDATIONS) NEEDS TO BE STRENGTHENED TO ACCOMMODATE THE PROPOSED CARRIAGEWAY LAYOUT. REPLACEMENT OF THE EXISTING EDGE BEAMS COULD BE REQUIRED. THERE IS A RISK THAT THE BRIDGE COULD BE UNSUITABLE FOR STRENGTHENING.
- SPECIAL TECHNICAL SOLUTIONS (e.g. LIGHTWEIGHT FILL, PILE LOAD TRANSFER PLATFORMS, ETC) MIGHT BE REQUIRED FOR THE WIDENING OF THE ROAD EMBANKMENT TO REDUCE ANY EFFECT ON THE EXISTING STRUCTURE.
- NEW PARTS OF THE ABUTMENTS AND FOUNDATION TO BE FIXED TO THE EXISTING WITH RESIN FIXED DOWELS.
- THE DECK MUST BE ENCAPSULATED DURING HYDRODEMOLITION. SETTLEMENT TANKS WILL BE REQUIRED TO CONTAIN WASTE WATER PRIOR TO OFFSITE DISPOSAL.

ALL DIMENSIONS OF STRUCTURAL ELEMENTS ARE INDICATIVE FOR CONCEPT DESIGN ONLY AND ARE SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED.

- LEGEND**
- PROPOSED ROAD LINE
 - PROPOSED STRUCTURE EXTENSION
 - PROPOSED DEMOLITIONS

NOTES ADDED	APM	20/06/17	P02
	JN		
FOR INFORMATION	LJP	19/05/17	P01
	RQ		
Revision Details	By	Date	Suffix
	Check		

FOR INFORMATION

Client: Highways England
Woodlands Manton Lane Bedford MK41 7LW

Working on behalf of **highways england**

A47 CORRIDOR SCHEMES PCF STAGE 2

A47/A11 THICKTHORN SINGLE OPTION STRUCTURE 23-S6 1/2

Designed	Drawn	Checked	Approved	Date
AMW	LJP	AK	RQ	19/05/2017

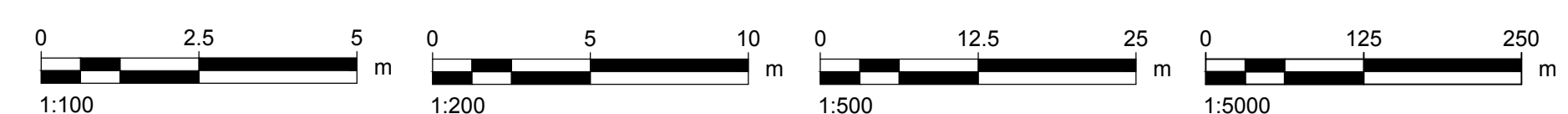
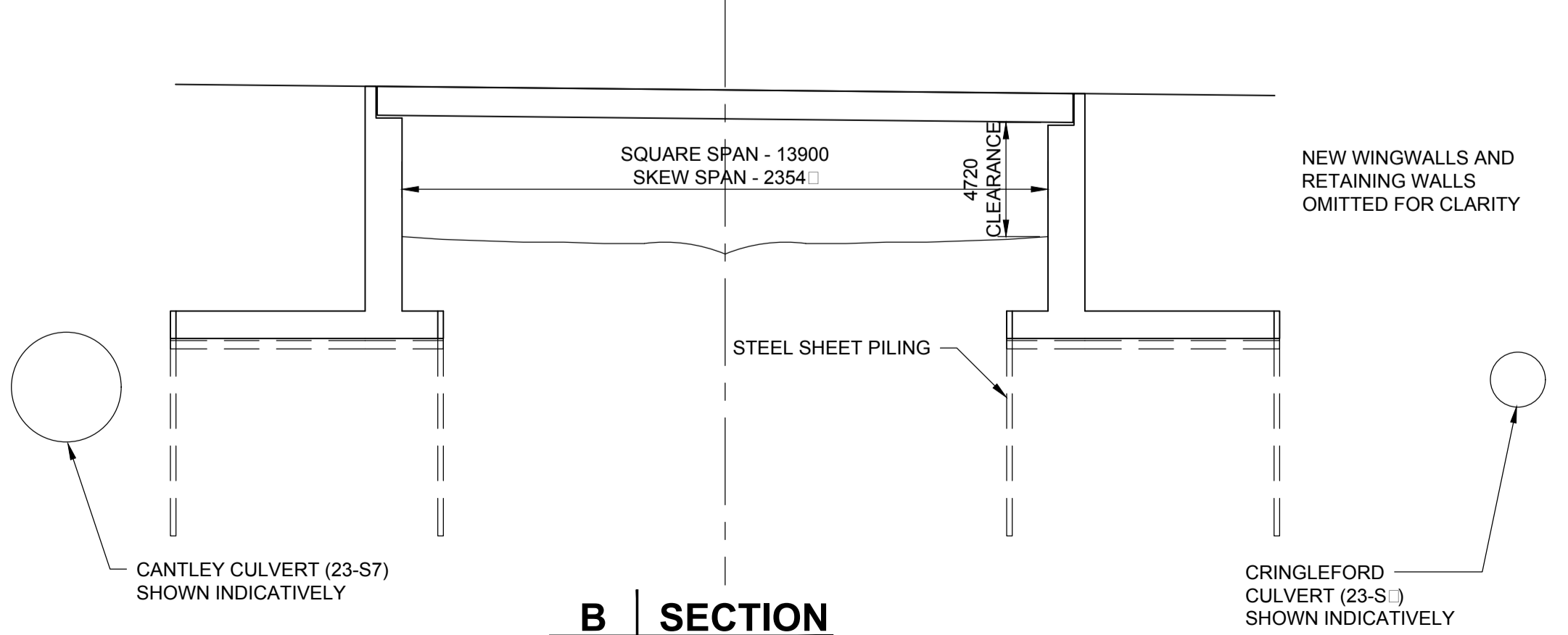
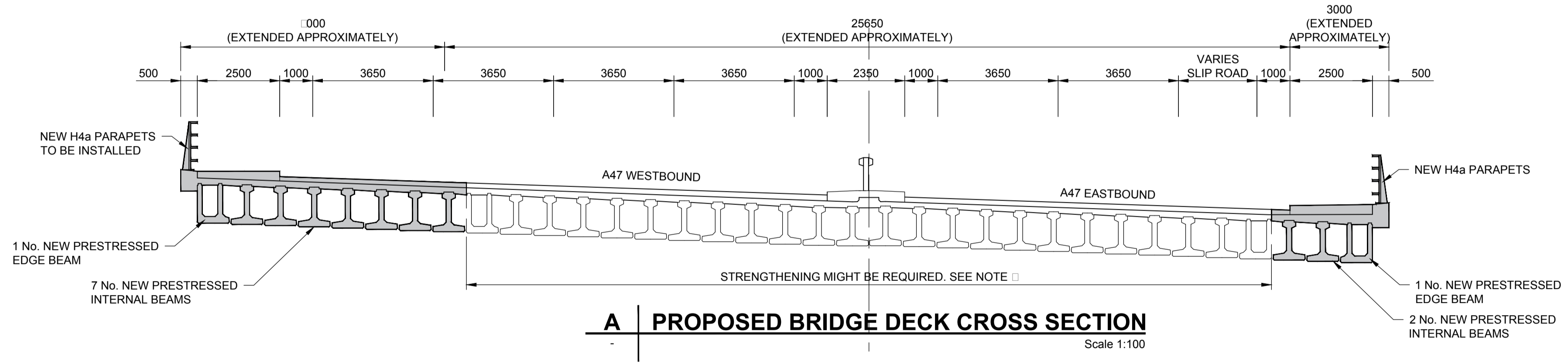
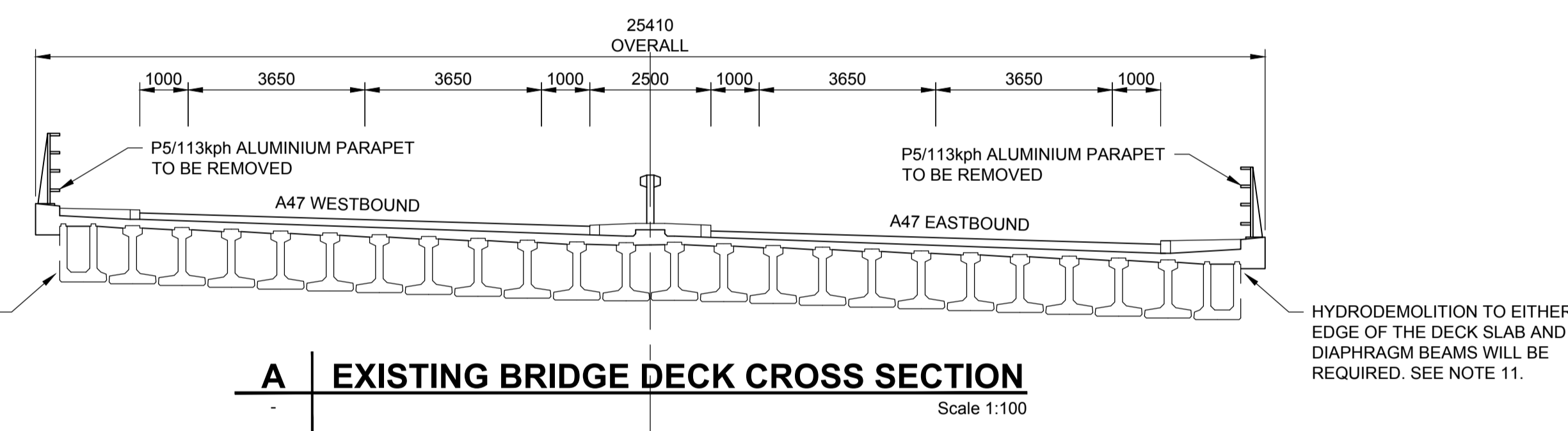
Scale @ A1 AS SHOWN Suitability S2

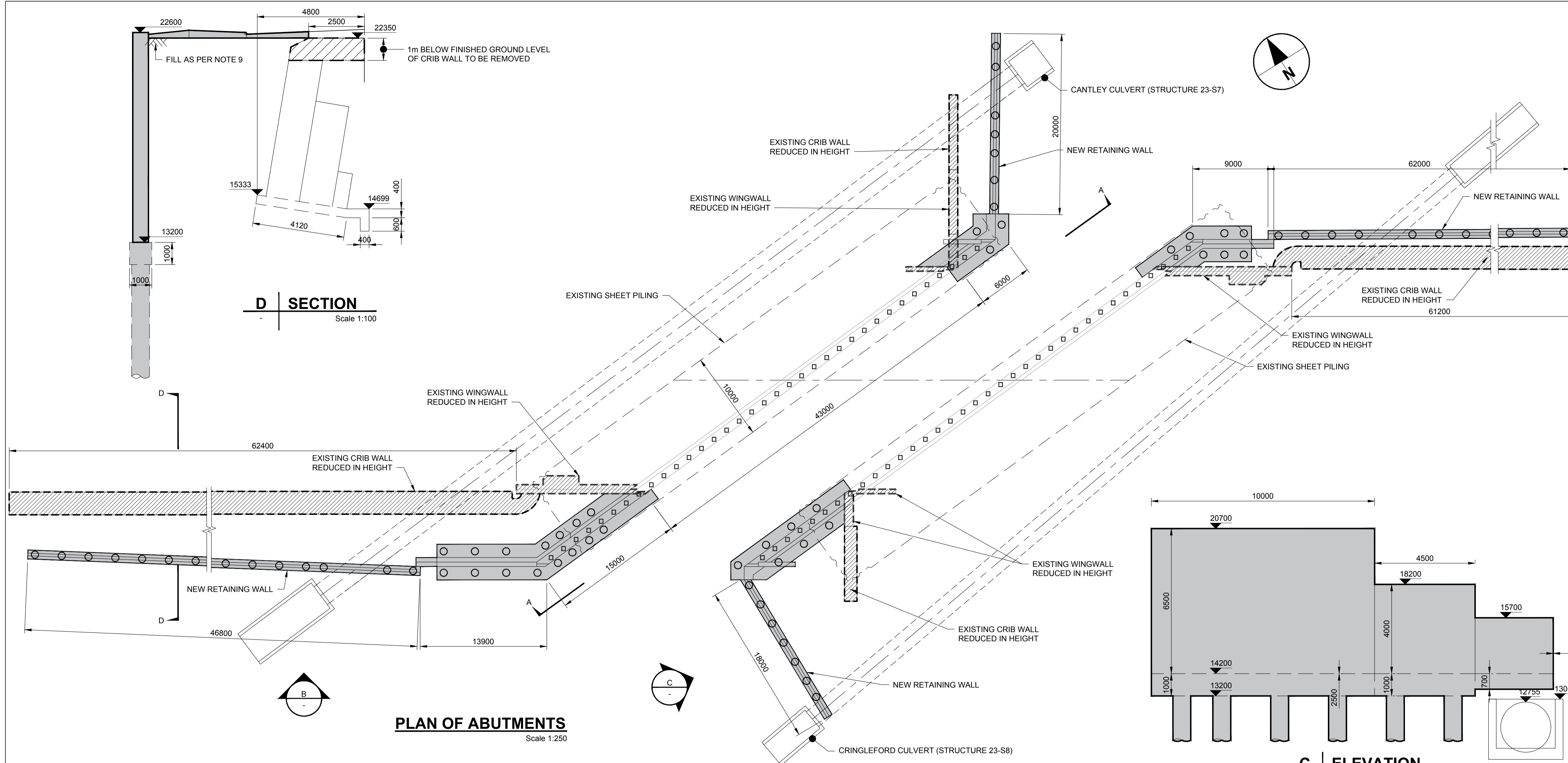
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HE551492-ACM-SBR-TJ-DR-CB-00206	P02

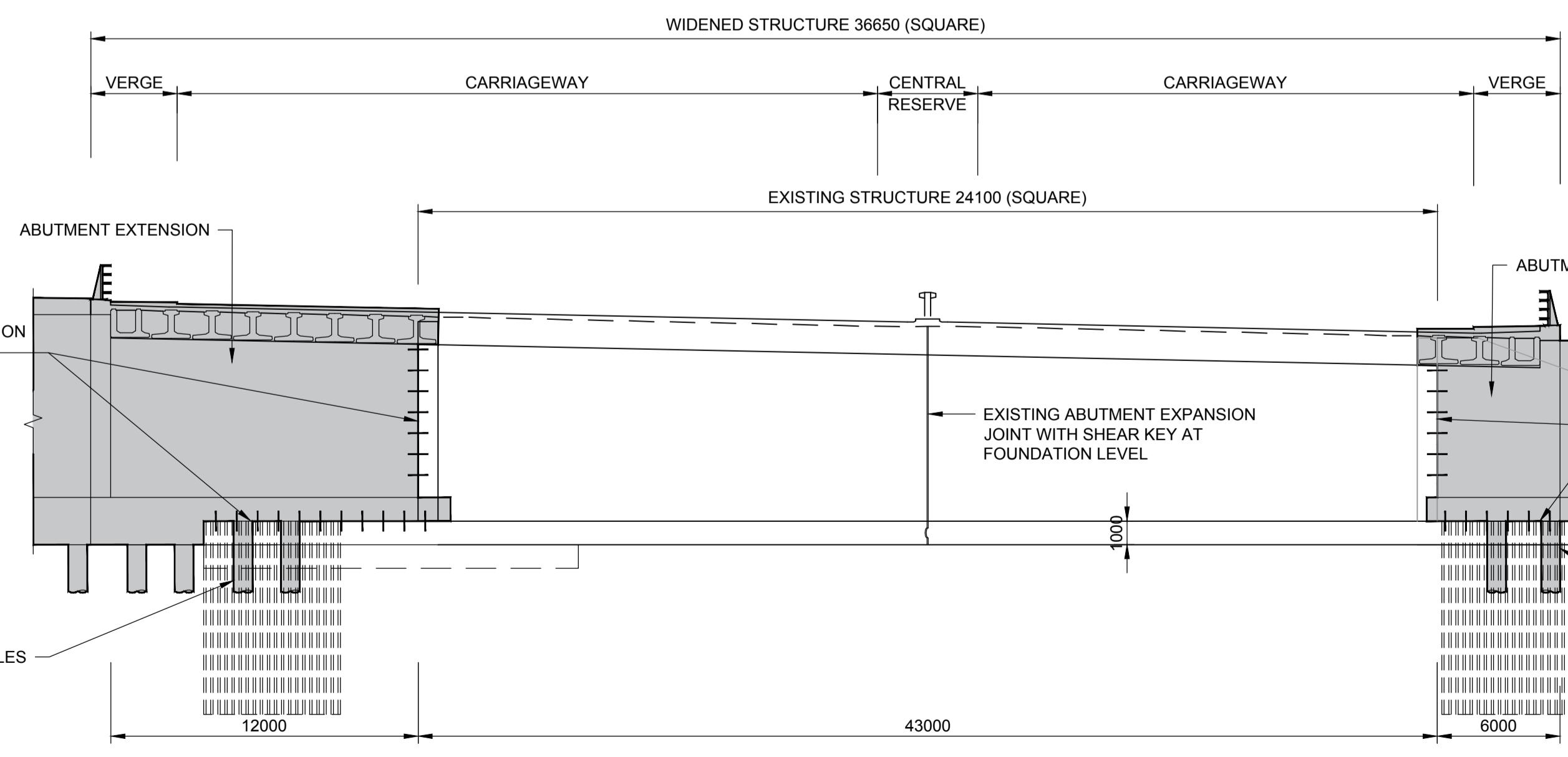




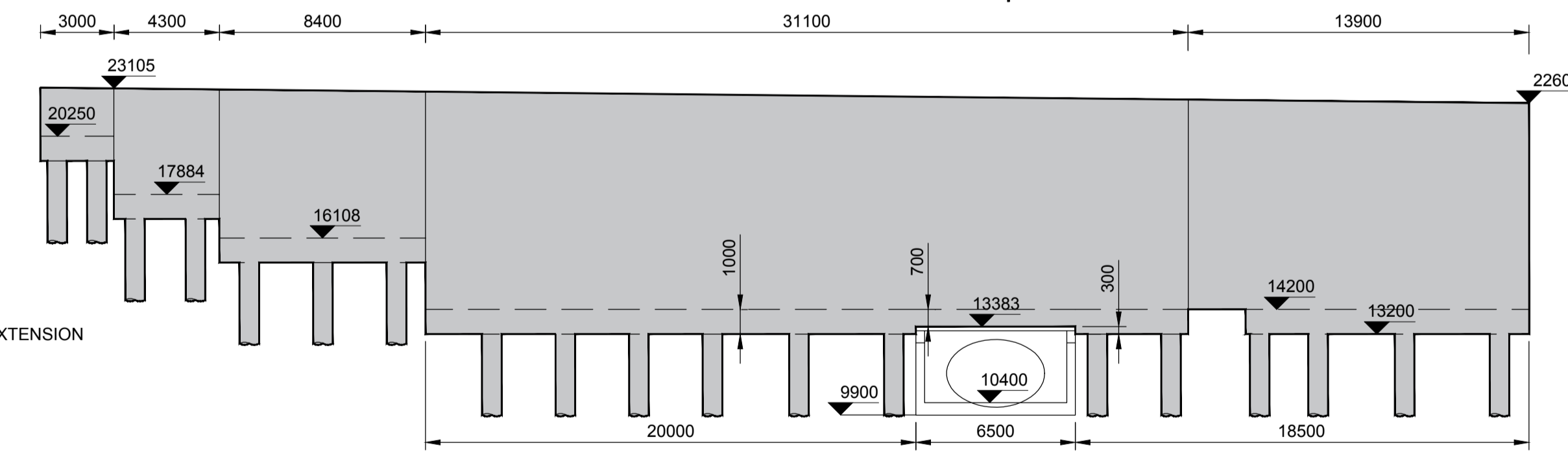
D SECTION
Scale 1:100

PLAN OF ABUTMENTS
Scale 1:250

C ELEVATION
Scale 1:100



ELEVATION A-A - PROPOSED WIDENED FRONT ELEVATION OF NORTH ABUTMENT
Scale 1:200



B ELEVATION
Scale 1:200

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
 - DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS, CHAINAGES LEVELS AND COORDINATES ARE IN MILLIMETERS UNLESS DEFINED OTHERWISE.
 - THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.
 - ROAD MARKINGS ARE INDICATIVE.
 - CONSULTATION WITH STATUTORY UNDERTAKERS IS STRONGLY RECOMMENDED IN ORDER TO IDENTIFY ANY UTILITIES IMPACTED BY THIS STRUCTURE. ANY POTENTIAL RELOCATION WOULD BE ACCOMMODATED EITHER ON TOP OF THE DECK OR BELOW THE PROPOSED ROAD LEVEL.
 - NEW WINGWALLS AND/OR RETAINING WALLS WILL BE REQUIRED IN ADDITION TO PARTIAL/ TOTAL DEMOLITION OF EXISTING CRIB WALLS. IT IS ANTICIPATED THAT THE NEW RETAINING WALLS WILL COMPRISE REINFORCED CONCRETE WALLS FOUNDED ON BORED PILES. CRIB WALLS SIMILAR TO THE EXISTING COULD ALSO BE CONSIDERED AS ALTERNATIVE. CONSTRUCTION JOINTS WILL BE REQUIRED.
 - STRUCTURAL ASSESSMENT IS REQUIRED IN ORDER TO DETERMINE WHETHER THE EXISTING STRUCTURE (INCLUDING THE FOUNDATIONS) NEEDS TO BE STRENGTHENED TO ACCOMMODATE THE PROPOSED CARRIAGEWAY LAYOUT. REPLACEMENT OF THE EXISTING EDGE BEAMS COULD BE REQUIRED. THERE IS A RISK THAT THE BRIDGE COULD BE UNSUITABLE FOR STRENGTHENING.
 - SPECIAL TECHNICAL SOLUTIONS (e.g. LIGHTWEIGHT FILL, PILE LOAD TRANSFER PLATFORMS, ETC) MIGHT BE REQUIRED FOR THE WIDENING OF THE ROAD EMBANKMENT TO REDUCE ANY EFFECT ON THE EXISTING STRUCTURE.
 - NEW PARTS OF THE ABUTMENTS AND FOUNDATION TO BE FIXED TO THE EXISTING WITH RESIN FIXED DOWELS.
 - THE GRANULAR BACKFILL MATERIAL MUST BE PLACED AND COMPACTED AS THE NEW RETAINING WALLS ARE CONSTRUCTED IN ACCORDANCE TO THE SPECIFICATIONS.
 - DEPTH OF NEW RETAINING WALL FOUNDATIONS TO BE REDUCED OVER CULVERTS TO ALLOW FOR ADEQUATE CLEARANCE ABOVE THEM. EXISTING HEADWALLS AND WINGWALLS MIGHT NEED TO BE EXTENDED TO ACCOMMODATE THE FILLING MATERIAL REQUIRED TO PROVIDE ADEQUATE FOUNDATION TO NEW RETAINING WALLS.
 - PILES ARE SHOWN INDICATIVELY.

ALL DIMENSIONS OF STRUCTURAL ELEMENTS ARE INDICATIVE FOR CONCEPT DESIGN ONLY AND ARE SUBJECT TO CHANGE AS THE SCHEME IS DEVELOPED.

LEGEND

FOR INFORMATION	APM	JN	20/06/17	P01
Revision Details	By	Check	Date	Suffix

Purpose of issue
FOR INFORMATION

Client
Highways England
Woodlands
Manton Lane
Bedford
MK41 7LW

Working on behalf of highways england

Project Title
A47 CORRIDOR SCHEMES PCF STAGE 2

Drawing Title
A47/A11 THICKTHORN SINGLE OPTION STRUCTURE 23-S6 2/2

Designed AMW	Drawn APM	Checked AK	Approved JN	Date 20/06/2017
Scale @ A1 AS SHOWN	Suitability S2			

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