

**KEY:**

	HIGHWAY BOUNDARY		RELOCATED TRAFFIC SIGN
	EXISTING ROAD EDGE		PROPOSED POST & WIRE FENCE
	PROPOSED ROAD EDGE		PROPOSED GULLY
	PROPOSED WHITE ROAD MARKING		PROPOSED TRAFFIC SIGN
	NEW PAVEMENT		
	GRASS VERGE		
	PROPOSED EARTHWORKS		
	BULL NOSED KERB (FULL HEIGHT)		

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**  
THE WORKS ARE TO BE UNDERTAKEN BY A COMPETENT DELIVERY TEAM, AND THEREFORE ONLY EXCEPTIONAL RISKS RELATING TO THE WORKS ASSOCIATED WITH THIS DRAWING ARE IDENTIFIED BELOW. FOR FURTHER DETAILS AND PROPOSED SAFETY MEASURES REFER "EWR PHASE 2 HAZARD LOG WORKING COPY" EB DOC. REF: 133735-NWR-RSA-SSD-000001.

ID	HAZARD DESCRIPTION
EWR2-HAZ-02464	PRESENCE OF BURIED SERVICES/ UTILITIES

INDICATES PROJECT RISKS (EWR2-DRIS- .....)  
 INDICATES H&S RISKS (EWR2-HAZ- .....)



B01	14/05/20	FOR INFORMATION	N.T.	L.T.	G.J.
Rev	Date	Description of Revisions	Dend	Chkd	Appr
Status					
SHARED - for Information					S2



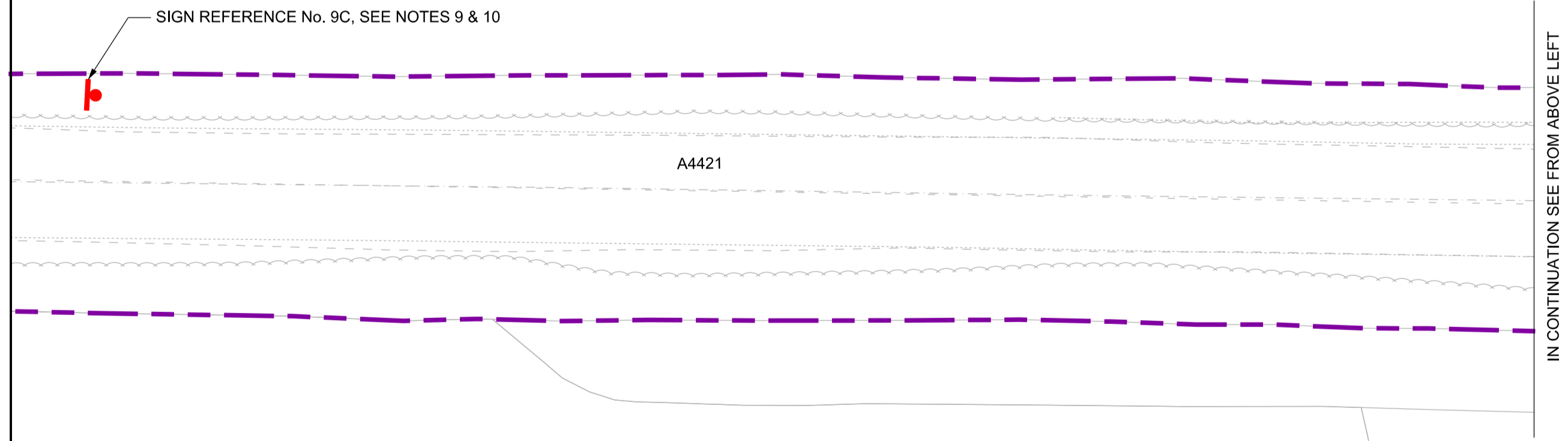
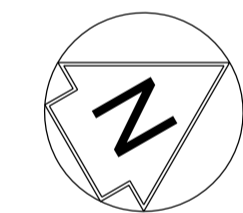
Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 GENERAL ARRANGEMENT**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			1 of 1
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010001		Revision
			B01

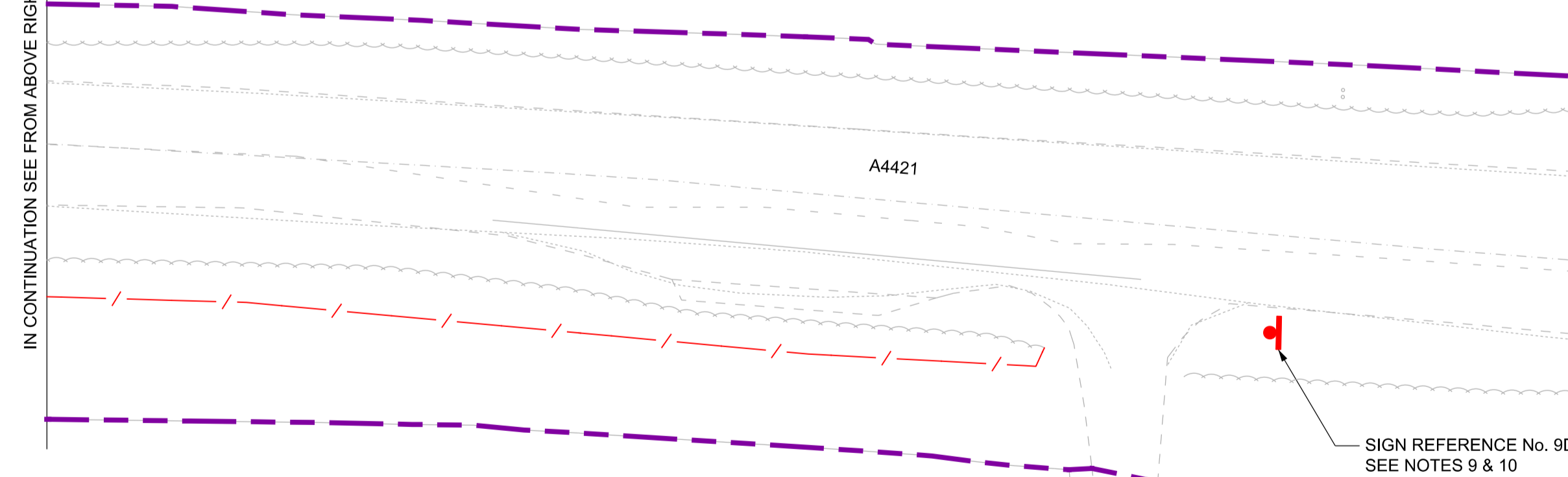
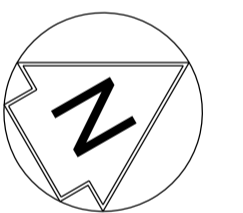
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SCALE 1:250 @ A1 SHEET SIZE



**KEY:**

	HIGHWAY BOUNDARY		RELOCATED TRAFFIC SIGN
	EXISTING ROAD EDGE		PROPOSED POST & WIRE FENCE
	PROPOSED ROAD EDGE		PROPOSED GULLY
	PROPOSED WHITE ROAD MARKING		PROPOSED TRAFFIC SIGN
	NEW PAVEMENT		
	GRASS VERGE		
	PROPOSED EARTHWORKS		
	BULL NOSED KERB (FULL HEIGHT)		

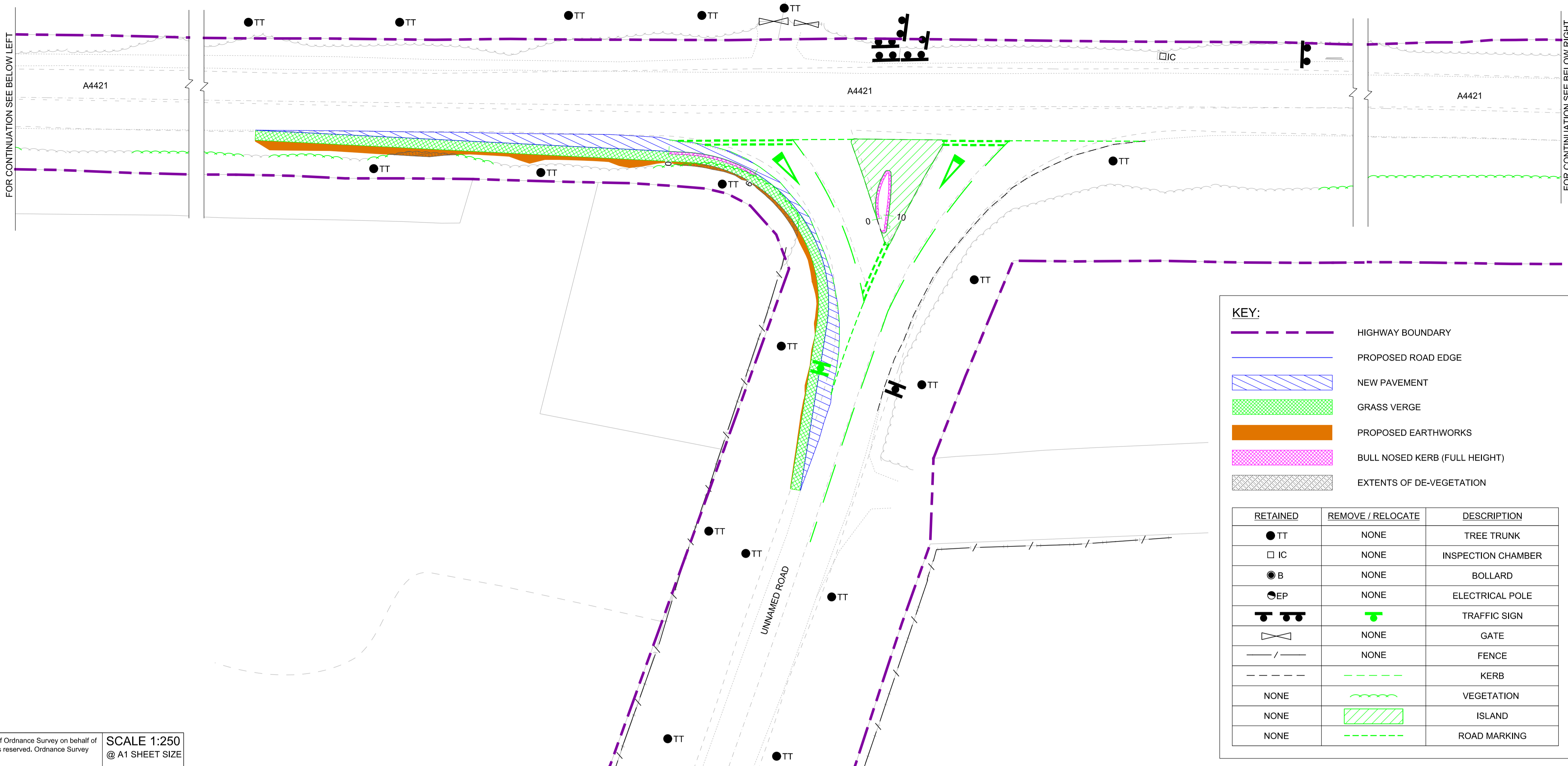
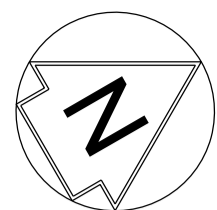
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SCALE 1:250 @ A1 SHEET SIZE



**KEY:**

	HIGHWAY BOUNDARY		RELOCATED TRAFFIC SIGN
	EXISTING ROAD EDGE		PROPOSED POST & WIRE FENCE
	PROPOSED ROAD EDGE		PROPOSED GULLY
	PROPOSED WHITE ROAD MARKING		PROPOSED TRAFFIC SIGN
	NEW PAVEMENT		
	GRASS VERGE		
	PROPOSED EARTHWORKS		
	BULL NOSED KERB (FULL HEIGHT)		

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**KEY:**

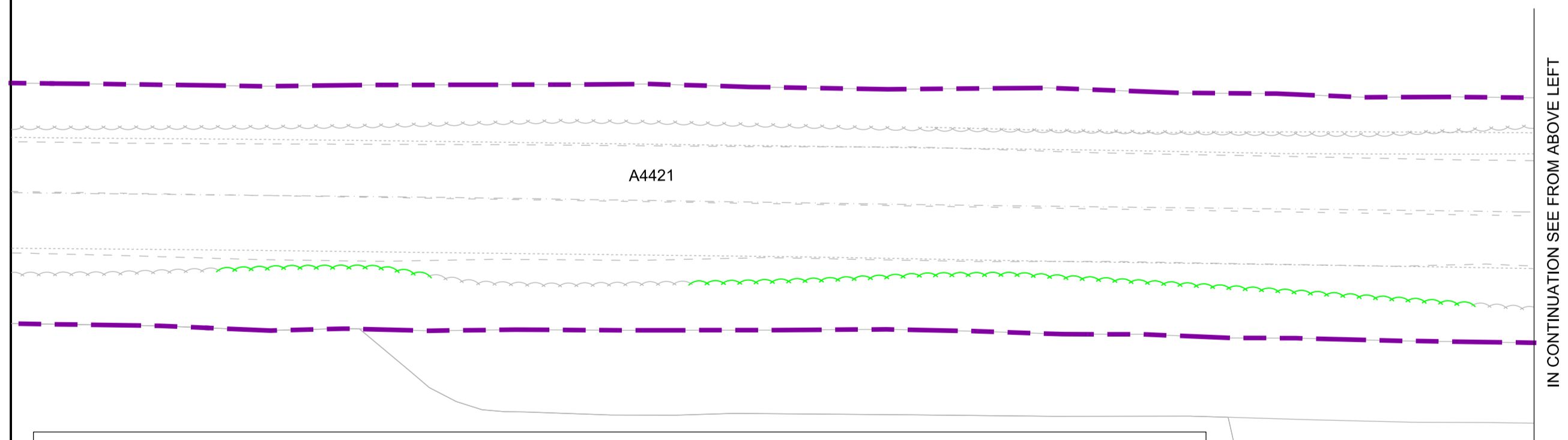
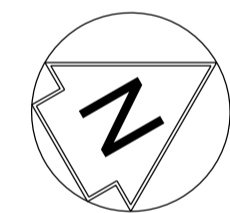
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- BULL NOSED KERB (FULL HEIGHT)
- EXTENTS OF DE-VEGETATION

RETAINED	REMOVE / RELOCATE	DESCRIPTION
● TT	NONE	TREE TRUNK
□ IC	NONE	INSPECTION CHAMBER
● B	NONE	BOLLARD
● EP	NONE	ELECTRICAL POLE
		TRAFFIC SIGN
	NONE	GATE
	NONE	FENCE
		KERB
NONE		VEGETATION
NONE		ISLAND
NONE		ROAD MARKING

- NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**
- NOTES:**
- THIS DRAWING IS NOT TO BE SCALED.
  - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
  - PRIOR TO THE COMMENCEMENT OF WORKS, A SUITABLY QUALIFIED ECOLOGIST SHALL INSPECT THE SITE FOR THE PRESENCE OF PROTECTED SPECIES AND HABITAT. THE ECOLOGIST SHALL THEN ADVISE EWR ALLIANCE ON THE REQUIRED PRECAUTIONARY METHODS AND AREAS OF EXCLUSION.
  - WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ARBORICULTURIST SHALL BE PRESENT TO ADVISE ON ROOT PROTECTION ZONE EXTENTS, ROOT PRUNING AND CROWN RAISING. WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS3998:2010.
  - SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST.
  - THE EXTENTS OF ALL SITE CLEARANCE WORKS SHALL BE RECORDED IN THE AS-BUILT SITE CLEARANCE DRAWINGS AND SHALL ALSO BE RECORDED, WITH PHOTOGRAPHS OF FEATURES PRIOR TO REMOVAL, IN THE SITE CLEARANCE REGISTER. THE SITE CLEARANCE REGISTER SHALL BE MAINTAINED BY EWR ALLIANCE AND WILL INFORM REINSTATEMENT DETERMINATION.
  - IN LOCATIONS WHERE EXISTING TREES OVERHANG THE NEW TEMPORARY CARRIAGEWAY EXTENTS CROWN LIFTING, TO GIVE 5m CLEARANCE ABOVE GROUND LEVEL, SHALL BE UNDERTAKEN TO THE BACK OF THE PROPOSED VERGE. THIS SHALL BE UNDERTAKEN UNDER THE SUPERVISION OF AN ARBORICULTURIST.
  - THE VEGETATION CLEARANCE SHOWN HERE ON THE DRAWING IS INDICATIVE ONLY. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.
  - FOR CLARITY ONLY THE TRUNKS OF EXISTING TREES ARE SHOWN, FOR CANOPY EXTENTS THE TREE SURVEY MODEL AND MASTER SCHEDULE ARE TO BE REFERRED TO.

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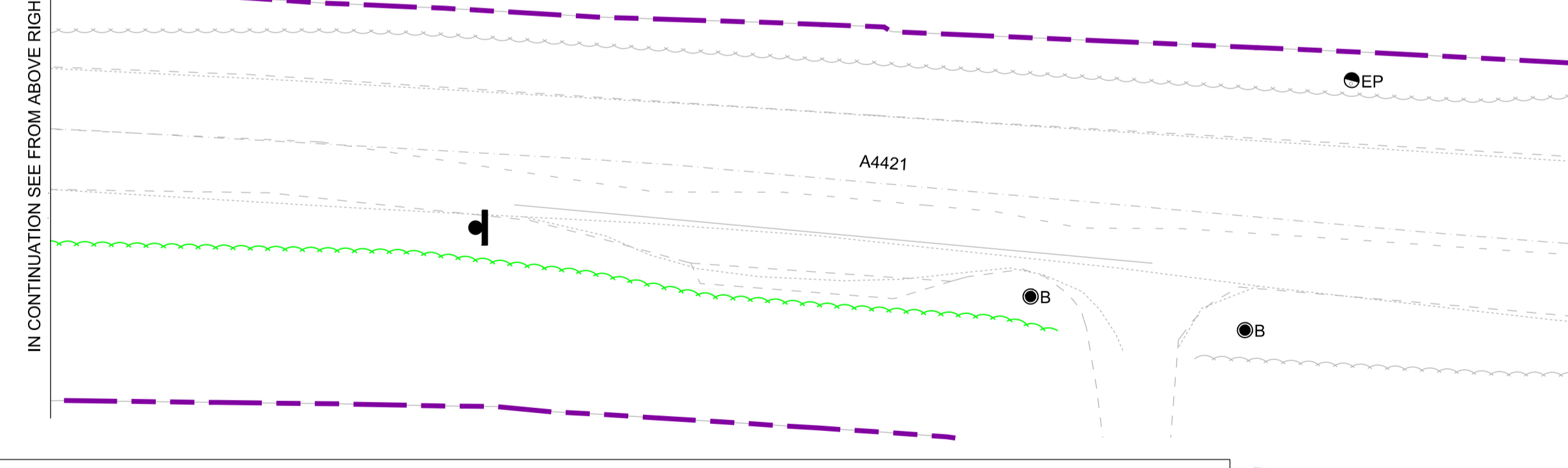
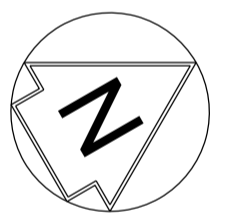
**KEY:**

- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- BULL NOSED KERB (FULL HEIGHT)
- EXTENTS OF DE-VEGETATION

RETAINED	REMOVE / RELOCATE	DESCRIPTION
● TT	NONE	TREE TRUNK
□ IC	NONE	INSPECTION CHAMBER
● B	NONE	BOLLARD
● EP	NONE	ELECTRICAL POLE
		TRAFFIC SIGN
	NONE	GATE
	NONE	FENCE
		KERB
NONE		VEGETATION
NONE		ISLAND
NONE		ROAD MARKING

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@ A1 SHEET SIZE



**KEY:**

- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- BULL NOSED KERB (FULL HEIGHT)
- EXTENTS OF DE-VEGETATION

RETAINED	REMOVE / RELOCATE	DESCRIPTION
● TT	NONE	TREE TRUNK
□ IC	NONE	INSPECTION CHAMBER
● B	NONE	BOLLARD
● EP	NONE	ELECTRICAL POLE
		TRAFFIC SIGN
	NONE	GATE
	NONE	FENCE
		KERB
NONE		VEGETATION
NONE		ISLAND
NONE		ROAD MARKING

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SCALE 1:250  
@ A1 SHEET SIZE

**DRAFT**

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION	N.T.	L.T.	G.J.	

Rev Status: **SHARED - for Information** Suitability: **S2**



Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 SITE CLEARANCE**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

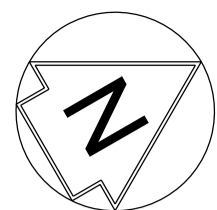
Scale(s)  
1:250  
ELR - Project Chainage (Miles Yards)  
OXD -

Design Package Risk Classification  
**Normal**

Sheet  
1 of 1

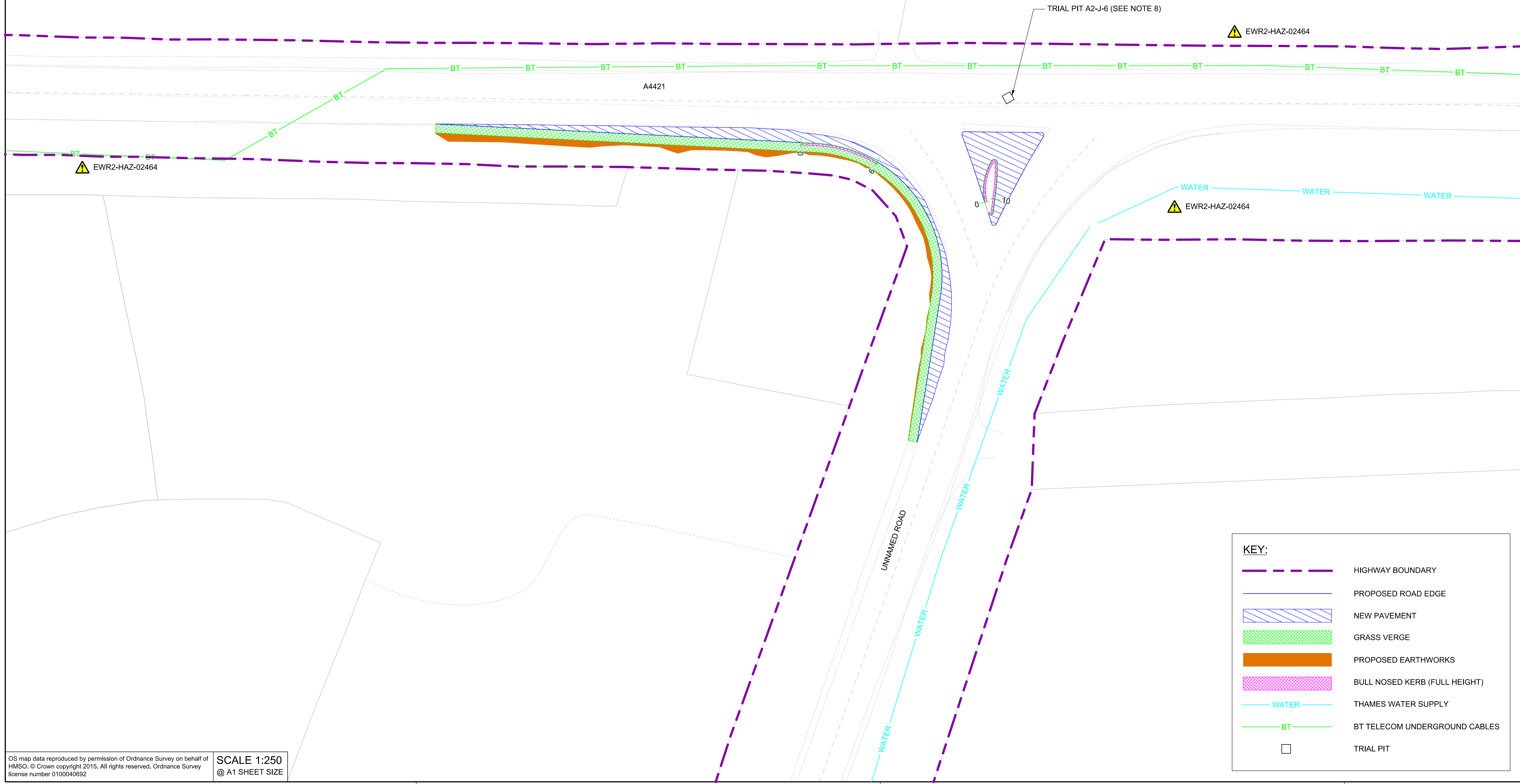
Alternative Reference  
Revision  
**B01**

Drawing Number  
133735\_2A-EWR-OXD-A2\_J\_6-DR-CH-010003



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
THE WORKS ARE TO BE UNDERTAKEN BY A COMPETENT DELIVERY TEAM, AND THEREFORE ONLY EXCEPTIONAL RISKS RELATING TO THE WORKS ASSOCIATED WITH THIS DRAWING ARE IDENTIFIED BELOW. FOR FURTHER DETAILS AND PROPOSED SAFETY MEASURES REFER "EWR PHASE 2 HAZARD LOG WORKING COPY" EB DOC. REF: 133735-NWR-RSA-SSD-000001.	
ID	HAZARD DESCRIPTION
EWR2-HAZ-02464	PRESENCE OF BURIED SERVICES/ UTILITIES
INDICATES PROJECT RISKS (EWR2-DRIS- .....)	INDICATES H&S RISKS (EWR2-HAZ- .....)

- NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**
- NOTES:**
- THIS DRAWING IS NOT TO BE SCALED.
  - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
  - THE EXACT LOCATION AND EXTENT OF BURIED SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. AGREEMENT WITH PRIVATE LAND OWNERS SHALL BE OBTAINED PRIOR TO WORKS WHERE ACCESS TO PRIVATE LAND IS REQUIRED.
  - THIS DRAWING SHOWS THE POSITION OF UTILITY COMPANIES APPARATUS KNOWN TO OPERATE IN THE AREA IMMEDIATELY ADJACENT TO AND WITHIN THE LAND TAKE BOUNDARY FOR EAST WEST RAIL.
  - THE POSITIONS INDICATED FOR THE APPARATUS ARE BASED ON RECORDS PROVIDED BY NETWORK RAIL. THE ACCURACY OF THE DRAWING IS THEREFORE LIMITED BY THE ACCURACY OF THE RECORDS MAINTAINED BY THE UTILITY COMPANIES. THE METHODS AVAILABLE TO PROCESS / REPRODUCE THIS INFORMATION IN THE DRAWINGS AND THE AGE OF THE INFORMATION. THERE IS THE POSSIBILITY THAT APPARATUS HAS BEEN ADDED OR REMOVED SINCE THE RECORDS WERE PROVIDED.
  - ALL SEARCHES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE WORK COMMENCES. IT IS THE RESPONSIBILITY OF THE EWR ALLIANCE TO IDENTIFY AND LOCATE UTILITY PLANT PRIOR TO WORK GOING AHEAD.
  - UTILITY PROTECTION SLAB MAY BE REQUIRED - REFER TO SCHEDULE 133735\_RW-EWR-XX-XXXXXXX-SH-CH-000017.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION				
			N.T.	L.T.	G.J.	
Status	SHARED - for Information					S2

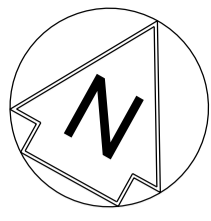


Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 EXISTING UTILITIES**

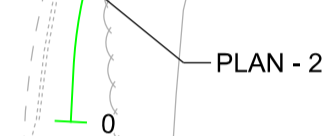
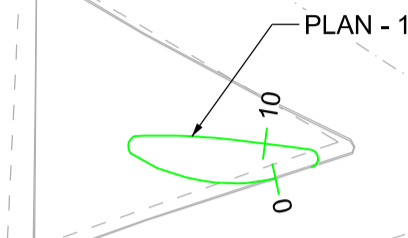
Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet 1 of 1
Alternative Reference			Revision B01
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010004		



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@ A1 SHEET SIZE



UNNAMED ROAD

A4421

NETWORK RAIL (EAST WEST  
RAIL WESTERN SECTION PHASE 2)

- NOTES:
1. THIS DRAWING IS NOT TO BE SCALED.
  2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	
B01	14/05/20	FOR INFORMATION		N.T.	L.T.	G.J.

SHARED - for Information S2

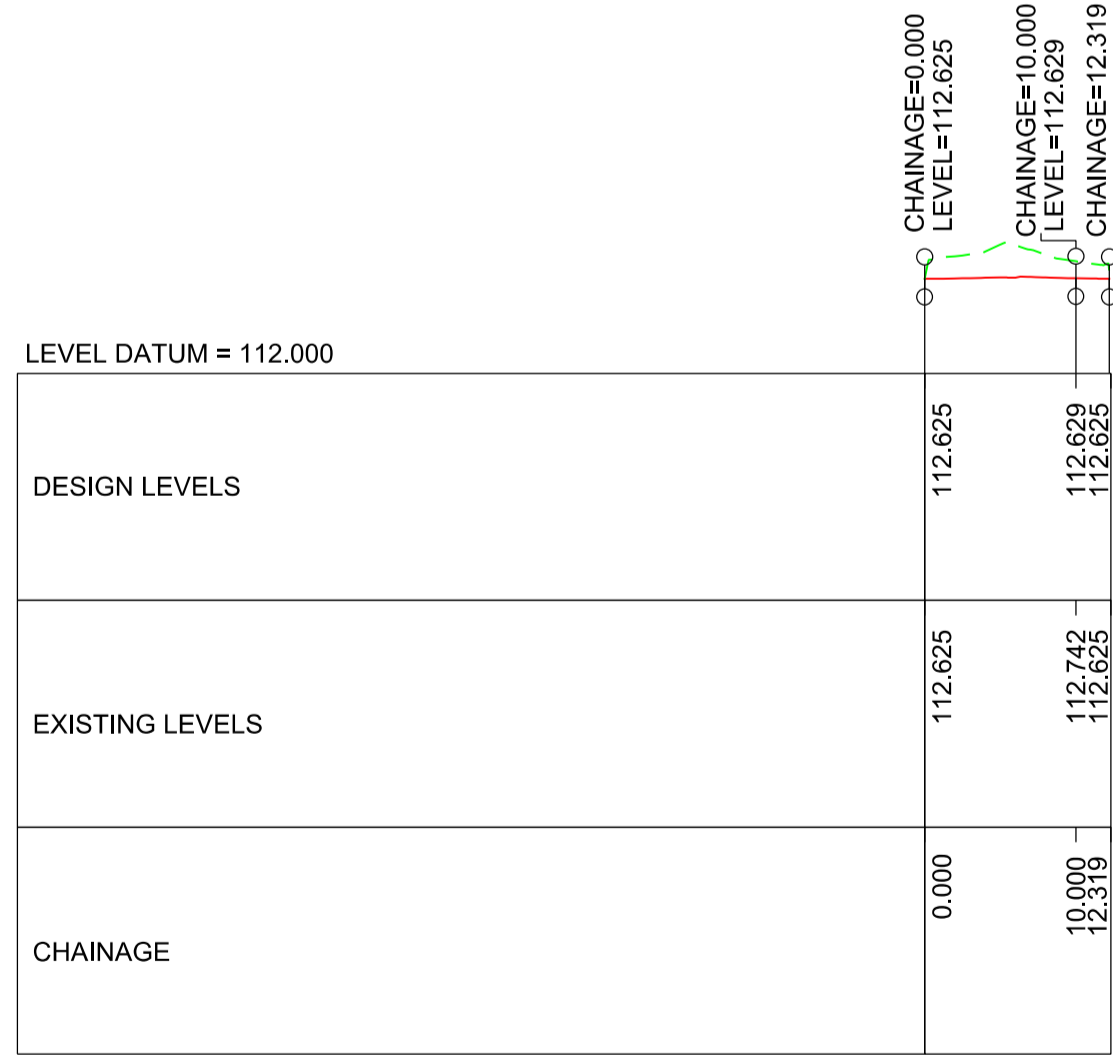


Project  
**East West Rail  
(Western Section)  
Phase 2**

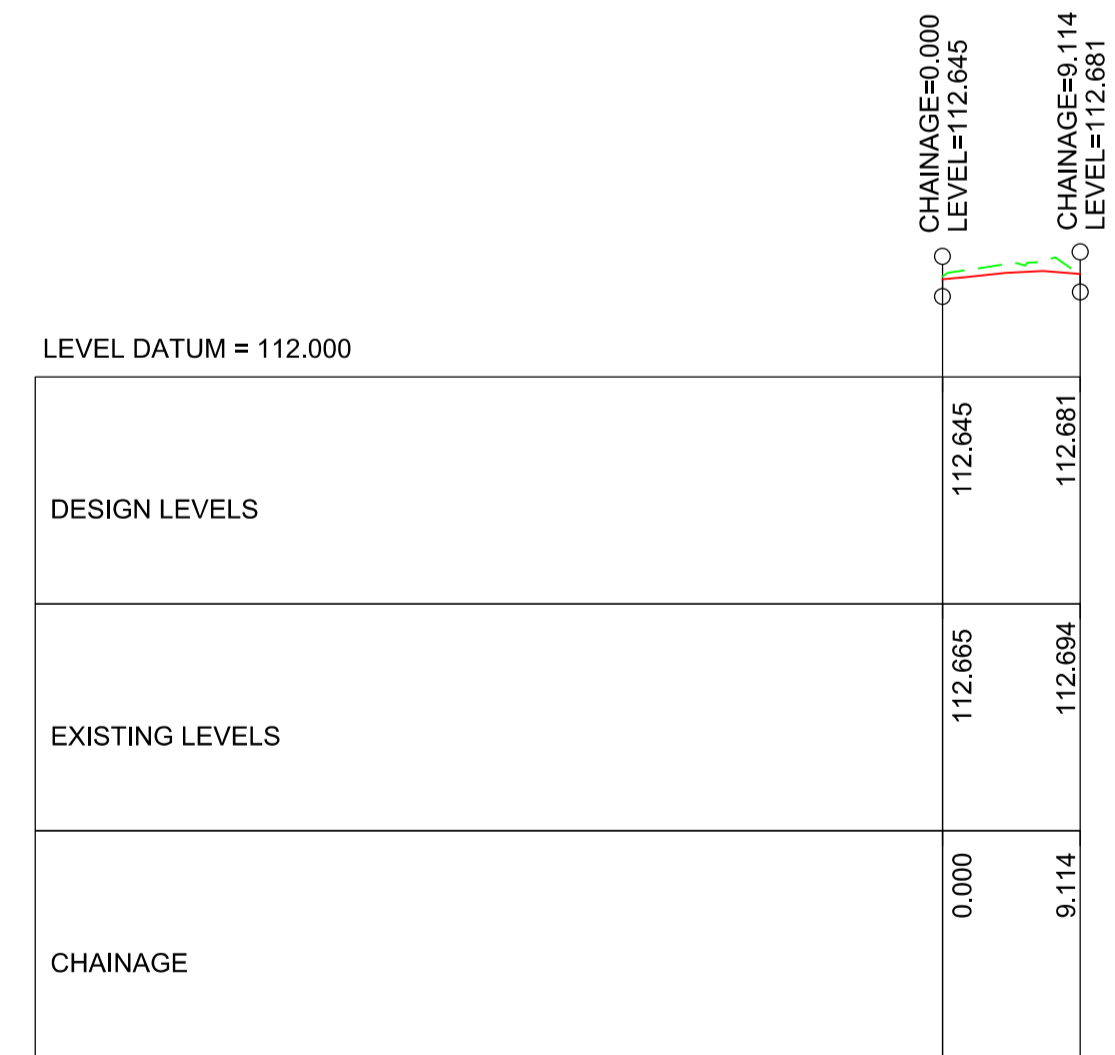
Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6  
KERB PLAN AND PROFILE**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	ELR - Project Chainage (Miles Yards)	AS SHOWN	OXD -
Design Package Risk Classification	Normal	Sheet	1 of 1
Alternative Reference		Revision	B01
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010007		



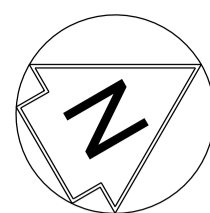
KERB PROFILE - 1  
SCALE = H - 1:500  
V - 1:50



KERB PROFILE - 2  
SCALE = H - 1:500  
V - 1:50

KEY:

- NEW ROAD EDGE LEVEL
- - - EXISTING SURFACE LEVEL



NETWORK RAIL (EAST WEST  
 RAIL WESTERN SECTION PHASE 2)

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
4. ALL WORKS TO BE IN ACCORDANCE WITH THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAYS WORKS VOL 1 (SPECIFICATION FOR HIGHWAYS WORKS) AND STANDARD CONSTRUCTION DETAILS.
5. THE DELIVERY TEAM IS TO VERIFY DIMENSIONS ON SITE AND ADVISE OF ANY INFORMATION DISCREPANCIES. TIE-IN POINTS SHOULD BE VERIFIED ON SITE WITH THE ENGINEER PRIOR TO CONSTRUCTION.



Rev	Date	Description of Revisions	Desd	Chkd	Appr
B01	14/05/20	FOR INFORMATION	N.T.	L.T.	G.J.
Status	SHARED - for Information				S2



Project  
 East West Rail  
 (Western Section)  
 Phase 2

Drawing Title  
 JUNCTION IMPROVEMENT A2\_J\_6  
 EXISTING AND PROPOSED  
 CONTOURS

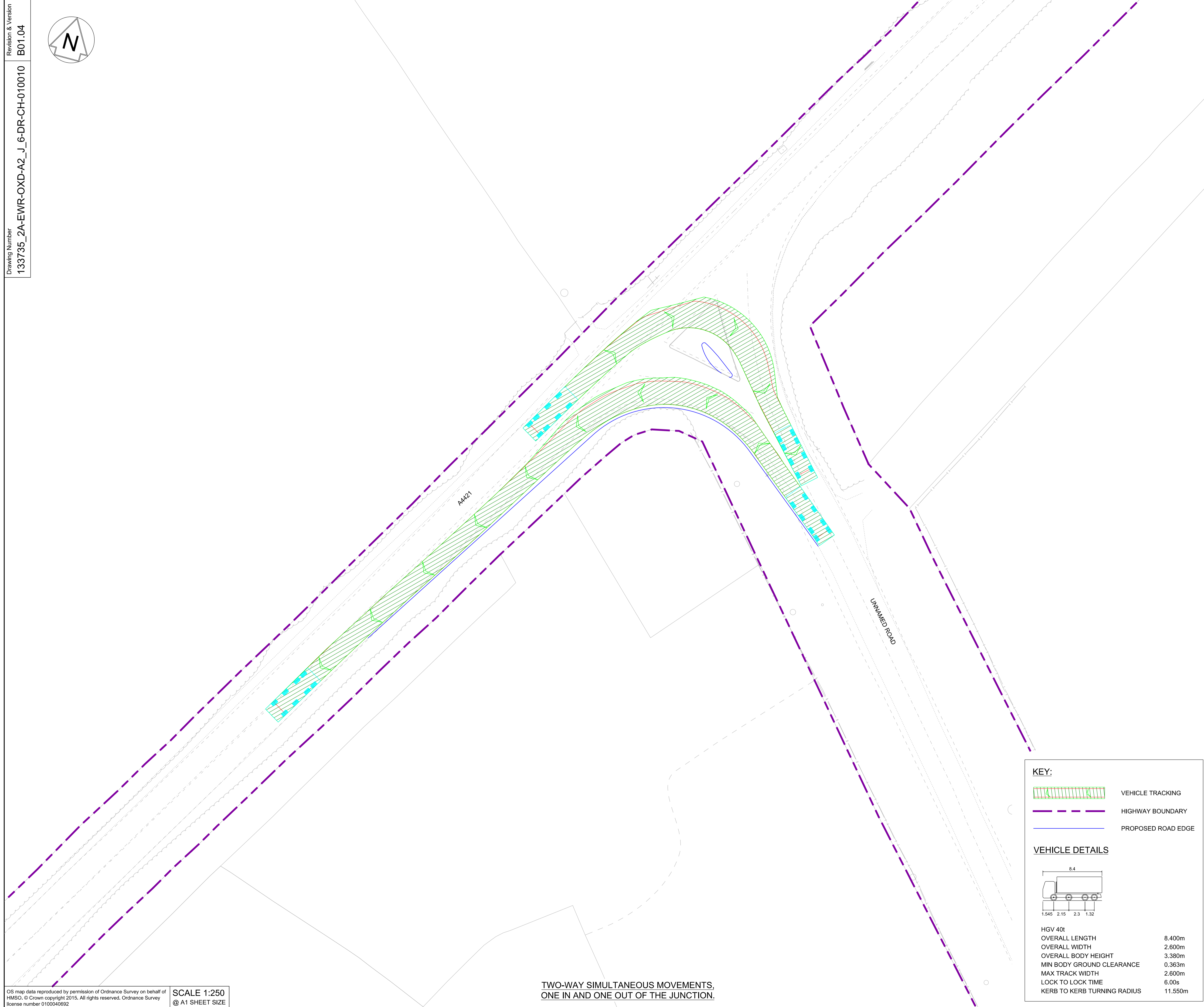
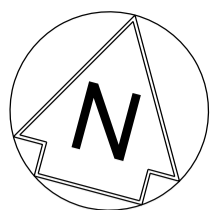
Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal	Sheet	1 of 1
Alternative Reference		Revision	B01

Drawing Number  
 133735\_2A-EWR-OXD-A2\_J\_6-DR-CH-010008

**KEY:**

	HIGHWAY BOUNDARY
	EXISTING CONTOUR MAJOR @ 0.05m INTERVALS
	EXISTING CONTOUR MINOR @ 0.01m INTERVALS
	PROPOSED CONTOUR MAJOR @ 0.05m INTERVALS
	PROPOSED CONTOUR MINOR @ 0.01m INTERVALS



TWO-WAY SIMULTANEOUS MOVEMENTS,  
ONE IN AND ONE OUT OF THE JUNCTION.

NETWORK RAIL (EAST WEST  
RAIL WESTERN SECTION PHASE 2)

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
5. APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.
6. JUNCTION HAVE BEEN DESIGNED FOR THE FOLLOWING VEHICLES AND MOVEMENTS:
  - A) SIMULTANEOUS TWO-WAY ONE IN AND ONE OUT MOVEMENT FOR A 40T HGV.
  - B) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A LOW LOADER.
  - C) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A MAX LEGAL (16.5m) ARTICULATED HGV.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability	
B01	14/05/20	FOR INFORMATION			N.T.	L.T.	G.J.
Status						SHARED - for Information	S2



Project  
**East West Rail  
(Western Section)  
Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6  
VEHICLE SWEEPED PATH ANALYSIS**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	26/03/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)  
**1:250**  
ELR - Project Chainage (Miles/Yards)  
OXD -  
Design Package Risk Classification  
**Normal**  
Sheet  
**1 of 4**  
Alternative Reference  
Revision  
**B01**

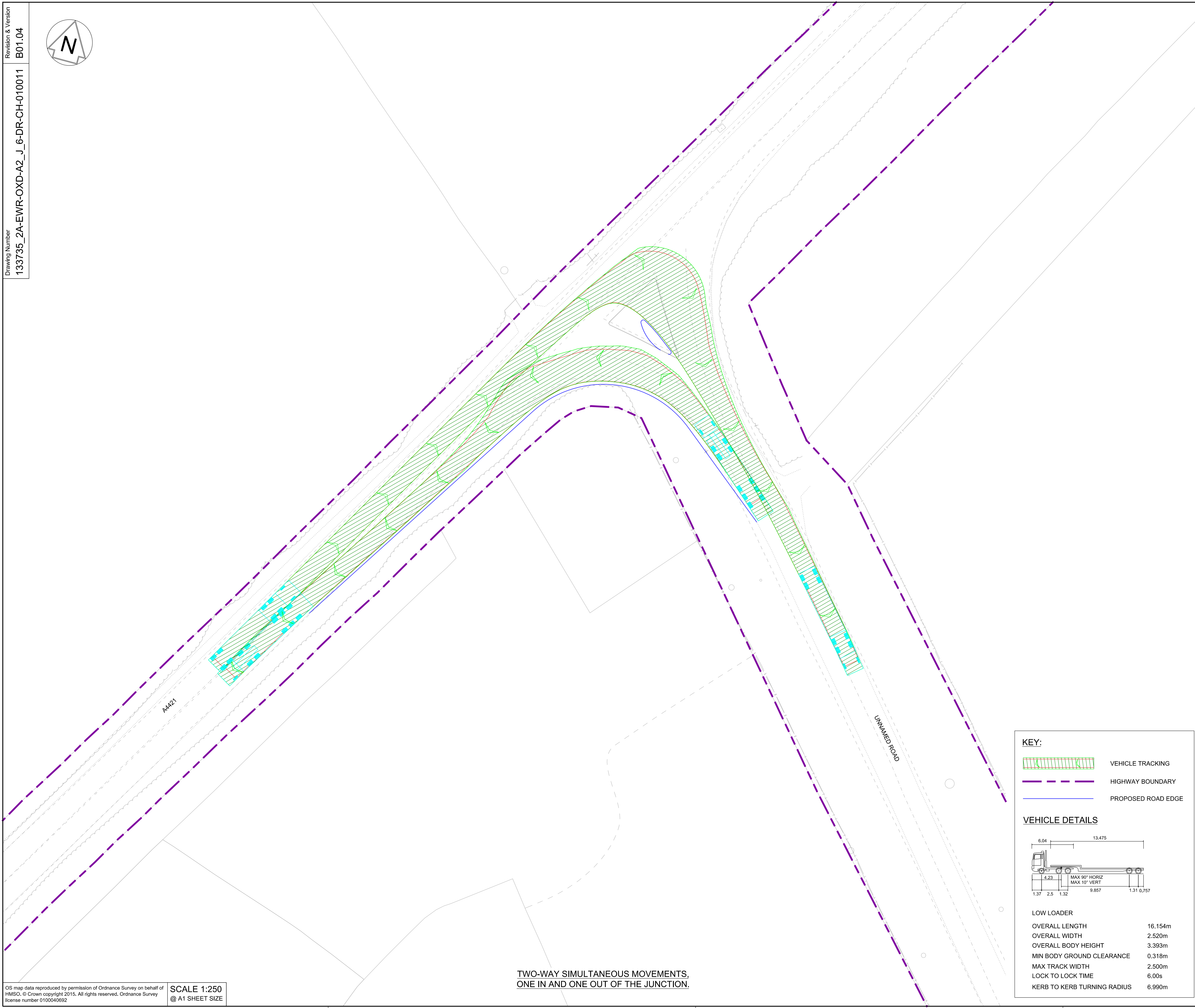
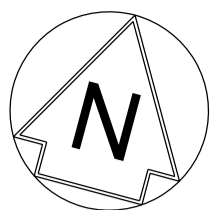
Drawing Number  
**133735\_2A-EWR-OXD-A2\_J\_6-DR-CH-010010**

**KEY:**

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

**VEHICLE DETAILS**

HGV 40t  
OVERALL LENGTH 8.400m  
OVERALL WIDTH 2.600m  
OVERALL BODY HEIGHT 3.380m  
MIN BODY GROUND CLEARANCE 0.363m  
MAX TRACK WIDTH 2.600m  
LOCK TO LOCK TIME 6.00s  
KERB TO KERB TURNING RADIUS 11.550m



TWO-WAY SIMULTANEOUS MOVEMENTS,  
ONE IN AND ONE OUT OF THE JUNCTION.

- NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**
- NOTES:**
- THIS DRAWING IS NOT TO BE SCALED.
  - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  - VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
  - THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
  - APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.
  - JUNCTION HAVE BEEN DESIGNED FOR THE FOLLOWING VEHICLES AND MOVEMENTS:
    - SIMULTANEOUS TWO-WAY ONE IN AND ONE OUT MOVEMENT FOR A 40T HGV.
    - ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A LOW LOADER.
    - ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A MAX LEGAL (16.5m) ARTICULATED HGV.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION				
			N.T.	L.T.	G.J.	

SHARED - for Information S2



Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 VEHICLE SWEEPED PATH ANALYSIS**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	08/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20
Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -		
Design Package Risk Classification	Normal	Sheet	2 of 4		
Alternative Reference		Revision	B01		
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010011				

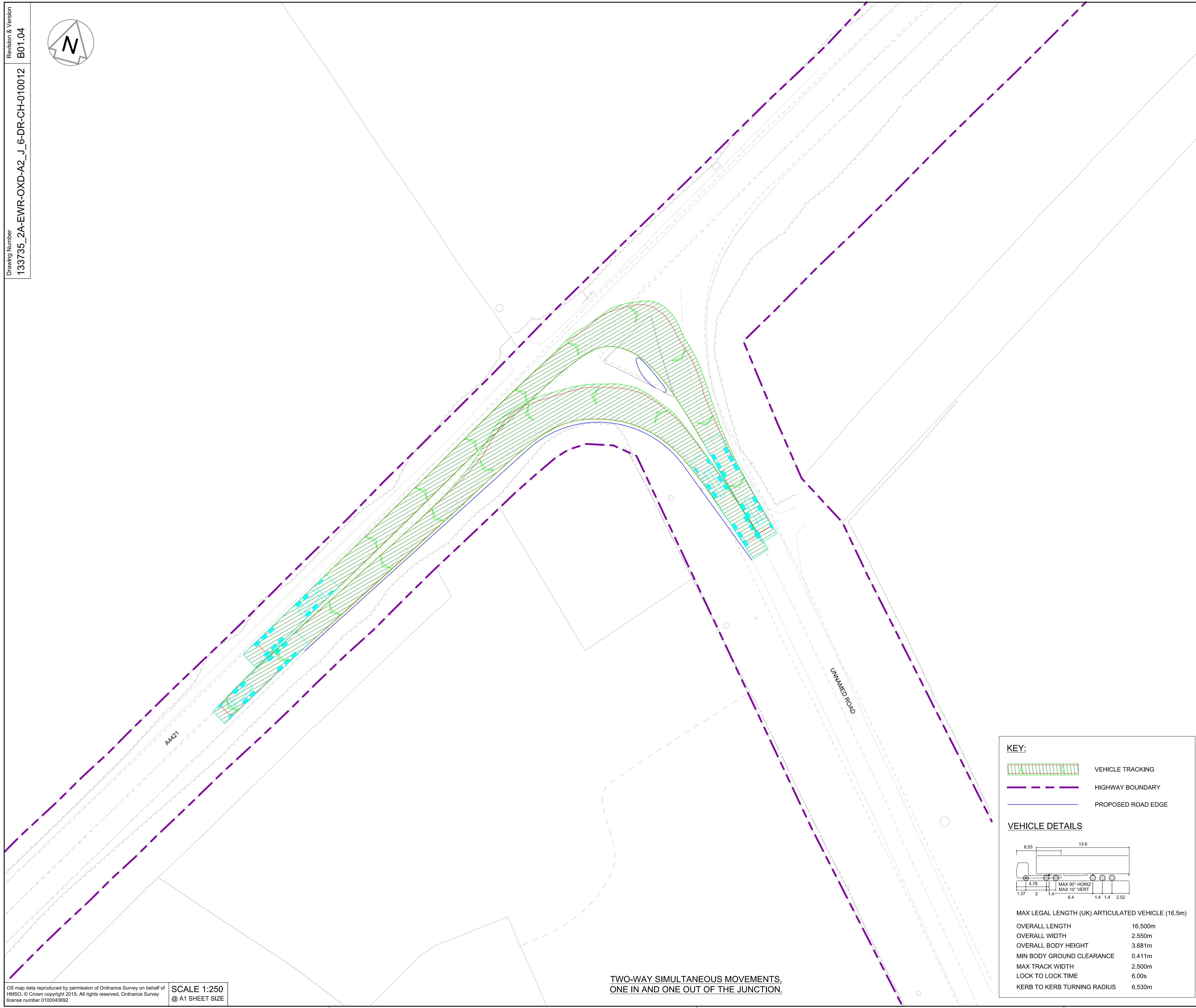
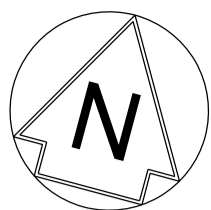
**KEY:**

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

**VEHICLE DETAILS**

**LOW LOADER**

OVERALL LENGTH	16.154m
OVERALL WIDTH	2.520m
OVERALL BODY HEIGHT	3.393m
MIN BODY GROUND CLEARANCE	0.318m
MAX TRACK WIDTH	2.500m
LOCK TO LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	6.990m



NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:**
1. THIS DRAWING IS NOT TO BE SCALED.
  2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
  4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
  5. APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.
  6. JUNCTION HAVE BEEN DESIGNED FOR THE FOLLOWING VEHICLES AND MOVEMENTS:
    - A) SIMULTANEOUS TWO-WAY ONE IN AND ONE OUT MOVEMENT FOR A 40T HGV.
    - B) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A LOW LOADER.
    - C) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A MAX LEGAL (16.5m) ARTICULATED HGV.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION		N.T.	L.T.	G.J.
Status						S2



Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 VEHICLE SWEEPED PATH ANALYSIS**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	08/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			Revision
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010012		B01

**KEY:**

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

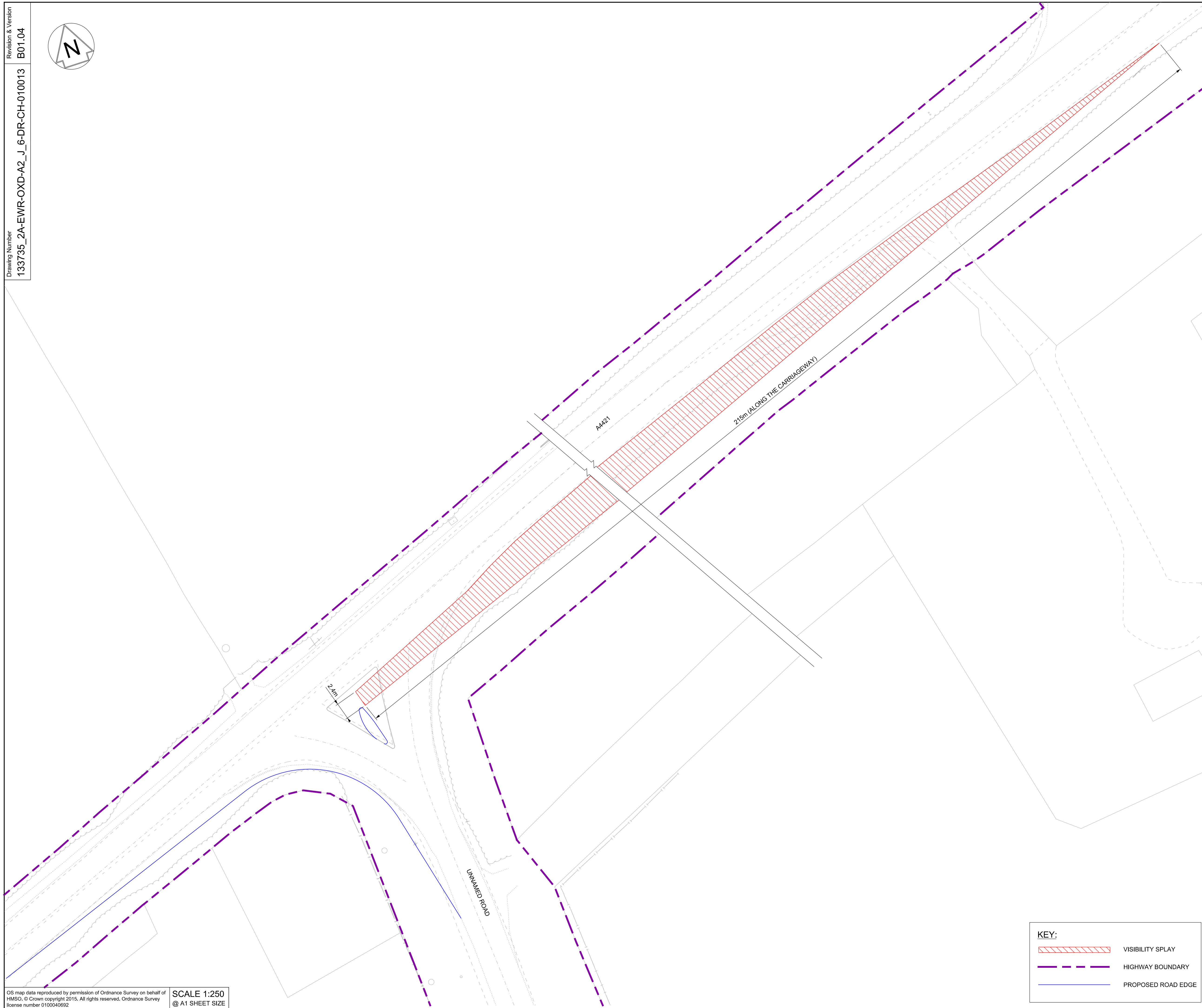
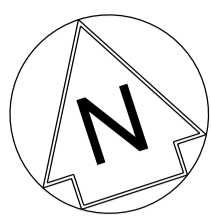
**VEHICLE DETAILS**

MAX LEGAL LENGTH (UK) ARTICULATED VEHICLE (16.5m)

OVERALL LENGTH	16.500m
OVERALL WIDTH	2.550m
OVERALL BODY HEIGHT	3.681m
MIN BODY GROUND CLEARANCE	0.411m
MAX TRACK WIDTH	2.500m
LOCK TO LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	6.530m

**TWO-WAY SIMULTANEOUS MOVEMENTS, ONE IN AND ONE OUT OF THE JUNCTION.**





**NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**

**NOTES:**

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.

**DRAFT**

Rev	Date	Description of Revisions	Desd	Chkd	Appr
B01	14/05/20	FOR INFORMATION	N.T.	L.T.	G.J.
Status					S2

SHARED - for Information



Project  
**East West Rail (Western Section) Phase 2**

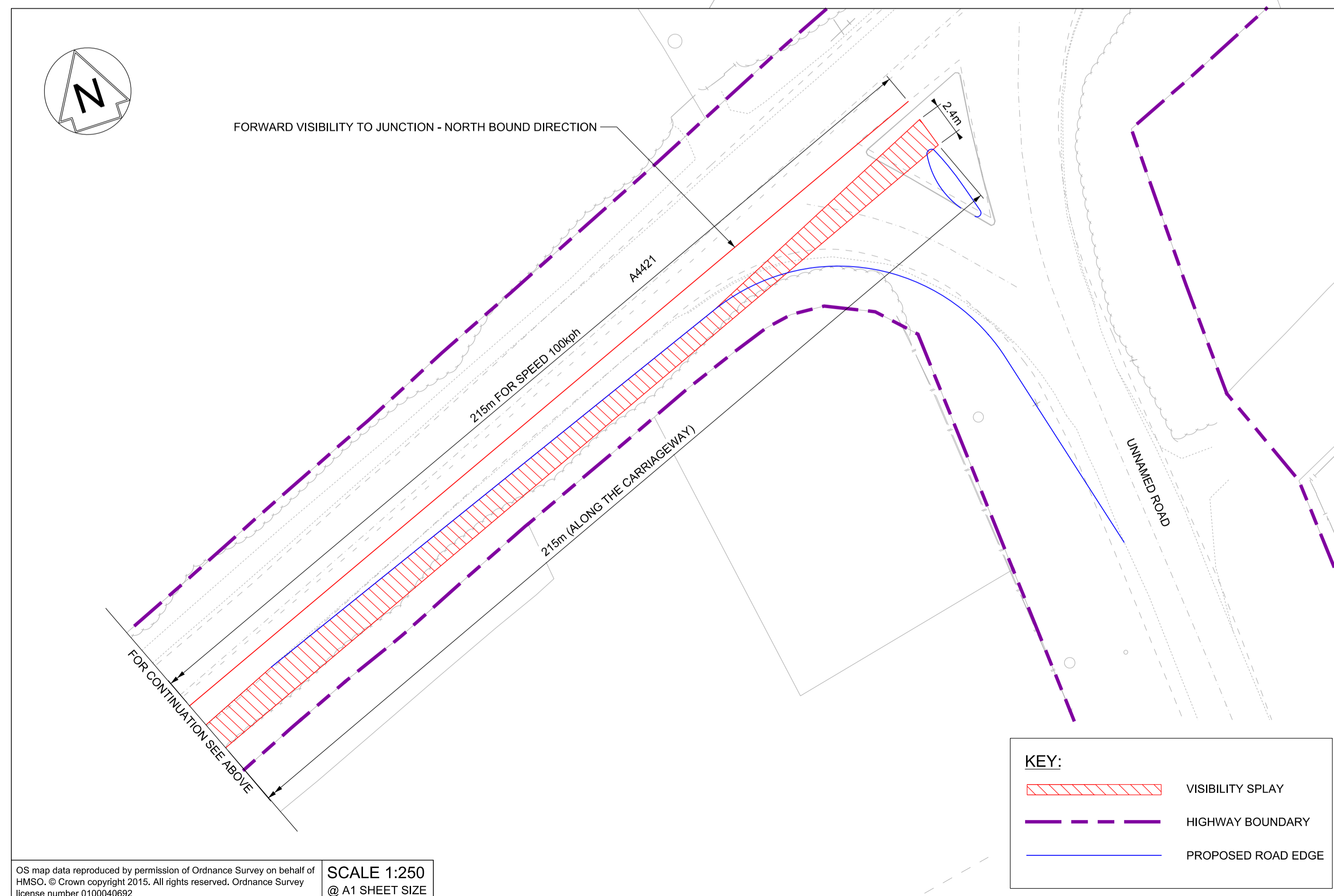
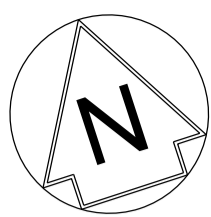
Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 VISIBILITY SPLAY**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	08/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			Revision
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010013		B01

**KEY:**

	VISIBILITY SPLAY
	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE



**KEY:**

	VISIBILITY SPLAY
	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE

**KEY:**

	VISIBILITY SPLAY
	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE

NETWORK RAIL (EAST WEST)  
 RAIL WESTERN SECTION PHASE 2

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION				

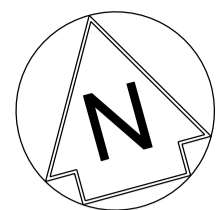


Project  
 East West Rail  
 (Western Section)  
 Phase 2

Drawing Title  
 JUNCTION IMPROVEMENT A2\_J\_6  
 VISIBILITY SPLAY

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	08/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal	Sheet	2 of 2
Alternative Reference		Revision	B01
Drawing Number	133735_2A-EWR-OXD-A2_J_6-DR-CH-010014		



**KEY:**

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

**VEHICLE DETAILS**

MAX LEGAL LENGTH (UK) ARTICULATED VEHICLE (16.5m)

OVERALL LENGTH	16.500m
OVERALL WIDTH	2.550m
OVERALL BODY HEIGHT	3.681m
MIN BODY GROUND CLEARANCE	0.411m
MAX TRACK WIDTH	2.500m
LOCK TO LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	6.530m

- NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**
- NOTES:**
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  - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
  - VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
  - THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
  - APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.
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    - A) SIMULTANEOUS TWO-WAY ONE IN AND ONE OUT MOVEMENT FOR A 40T HGV.
    - B) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A LOW LOADER.
    - C) ONE IN AND ONE OUT SINGLE DIRECTION MOVEMENT FOR A MAX LEGAL (16.5m) ARTICULATED HGV.
  - THIS DRAWING IS TO DEMONSTRATE THAT LARGE VEHICLES CAN NEGOTIATE THE PROPOSED ISLAND. EWR2 CONSTRUCTION TRAFFIC WILL NOT MAKE THESE TURNING MOVEMENTS.

TWO-WAY SIMULTANEOUS MOVEMENTS, ONE IN AND ONE OUT OF THE JUNCTION.

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SCALE 1:250  
@ A1 SHEET SIZE



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	14/05/20	FOR INFORMATION	N.T.	L.T.	G.J.	
Status	SHARED - for Information					S2



Project  
**East West Rail (Western Section) Phase 2**

Drawing Title  
**JUNCTION IMPROVEMENT A2\_J\_6 VEHICLE SWEEPED PATH ANALYSIS**

Designed	Nagoth Thomas Ravi Kuma	Signed	N. T. R. Kumar	Date	13/05/20
Drawn	Ravikumar KN	Signed	R. KN	Date	09/01/20
Checked	Lisa Taylor	Signed	L. Taylor	Date	13/05/20
Approved	Gareth Johnston	Signed	G. Johnston	Date	13/05/20

Scale(s)  
1:250

Design Package Risk Classification  
**Normal**

Alternative Reference

Drawing Number  
133735\_2A-EWR-OXD-A2\_J\_6-DR-CH-010015

Sheet  
4 of 4

Revision  
B01

**KEY:**

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

**VEHICLE DETAILS**

MAX LEGAL LENGTH (UK) ARTICULATED VEHICLE (16.5m)

OVERALL LENGTH	16.500m
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KERB TO KERB TURNING RADIUS	6.530m

TWO-WAY SIMULTANEOUS MOVEMENTS, ONE IN AND ONE OUT OF THE JUNCTION.

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