

LEGEND

- STUDY AREA
- EXISTING WATERCOURSES



LIMERICK CITY COUNCIL
COMHAIRE CATHRACH LUIMNIGH



An Roinn Iompair
Turasóireachta agus Spóirt
Department of Transport,
Tourism and Sport

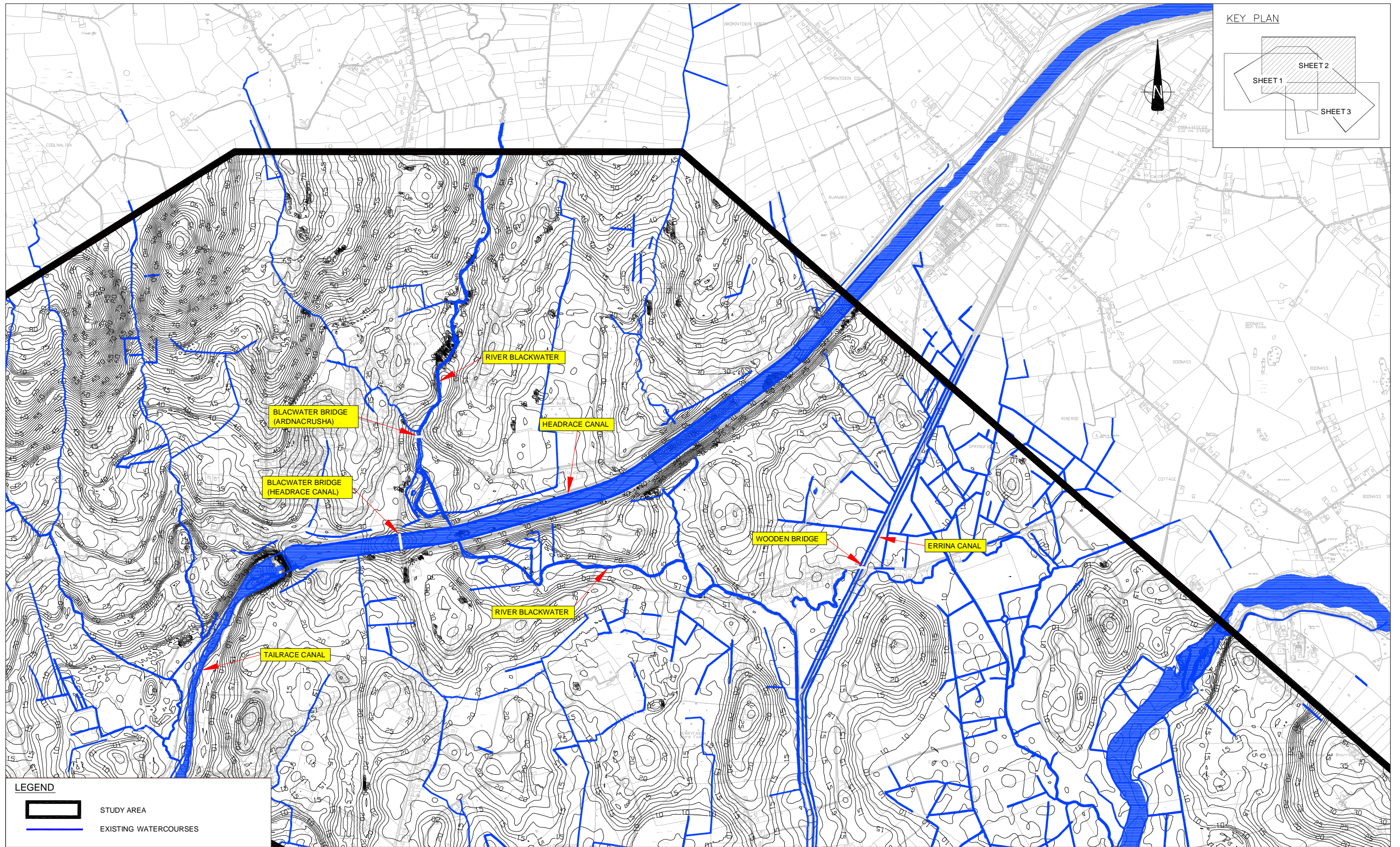
No.	Revision	Date	By	Chkd	App'd
	Stage				
	PRELIMINARY				
	APPROVAL				
	TENDER				
	CONSTRUCTION				

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Telex : (066) 71231304
E-Mail : info@mrge.ie
CIVIL AND STRUCTURAL ENGINEERS

Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		TOPOGRAPHY AND EXISTING WATERCOURSES SHEET 1 OF 3	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3402	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



LEGEND

- [Black outline] STUDY AREA
- [Blue line] EXISTING WATERCOURSES



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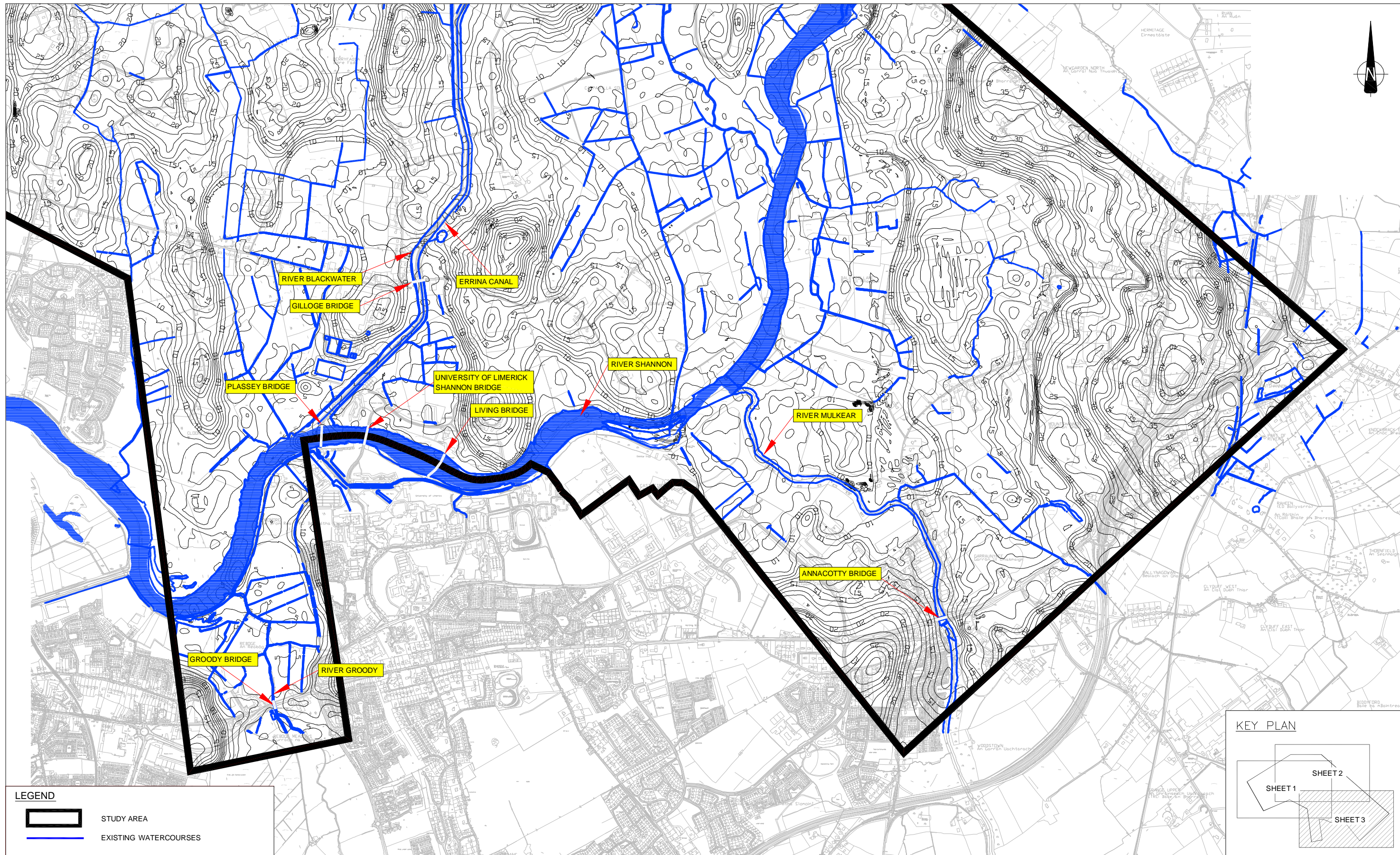
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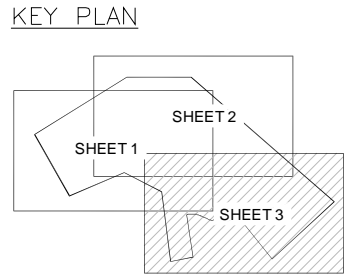
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Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		TOPOGRAPHY AND EXISTING WATERCOURSES SHEET 2 OF 3	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3403	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



LEGEND

 STUDY AREA
 EXISTING WATERCOURSES



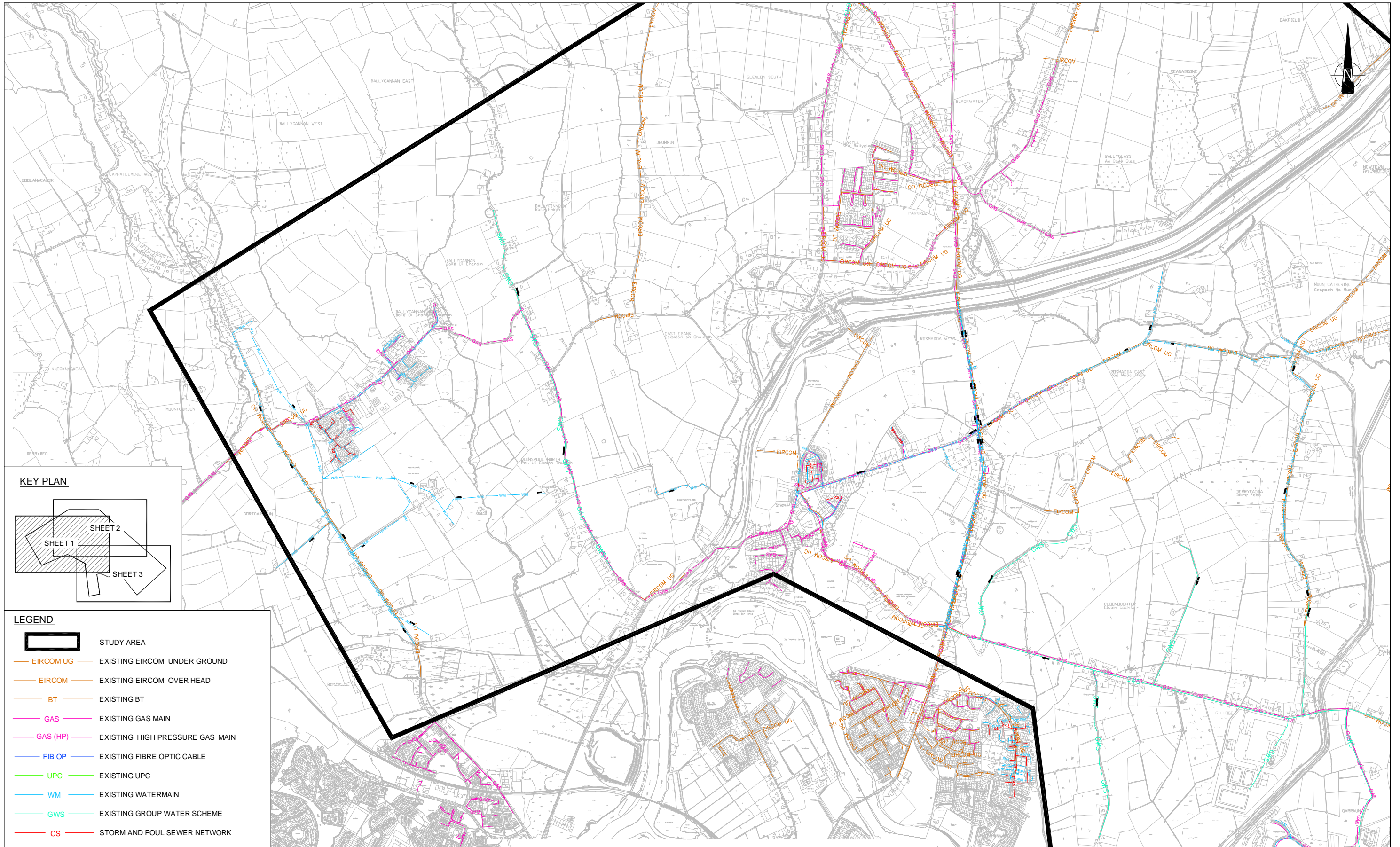
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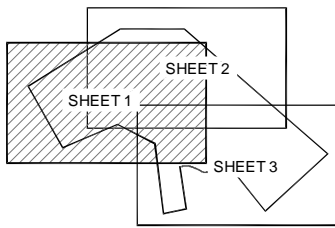
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Project Title	LIMERICK NORTHERN DISTRIBUTOR ROAD		
Drawing Title	TOPOGRAPHY AND EXISTING WATERCOURSES SHEET 3 OF 3		
Drawn:	RE	Job No:	10194
Scale:	1:20,000 @ A3	Date:	SEPTEMBER 2012
Rev:		Drawing No:	RCSR-3404
Designed:	LF	Checked:	MC
Approved:	RTP	Status:	WORK IN PROGRESS



KEY PLAN



LEGEND

- STUDY AREA
- EIRCOM UG EXISTING EIRCOM UNDER GROUND
- EIRCOM EXISTING EIRCOM OVER HEAD
- BT EXISTING BT
- GAS EXISTING GAS MAIN
- GAS (HP) EXISTING HIGH PRESSURE GAS MAIN
- FIB OP EXISTING FIBRE OPTIC CABLE
- UPC EXISTING UPC
- WM EXISTING WATERMAIN
- GWS EXISTING GROUP WATER SCHEME
- CS STORM AND FOUL SEWER NETWORK



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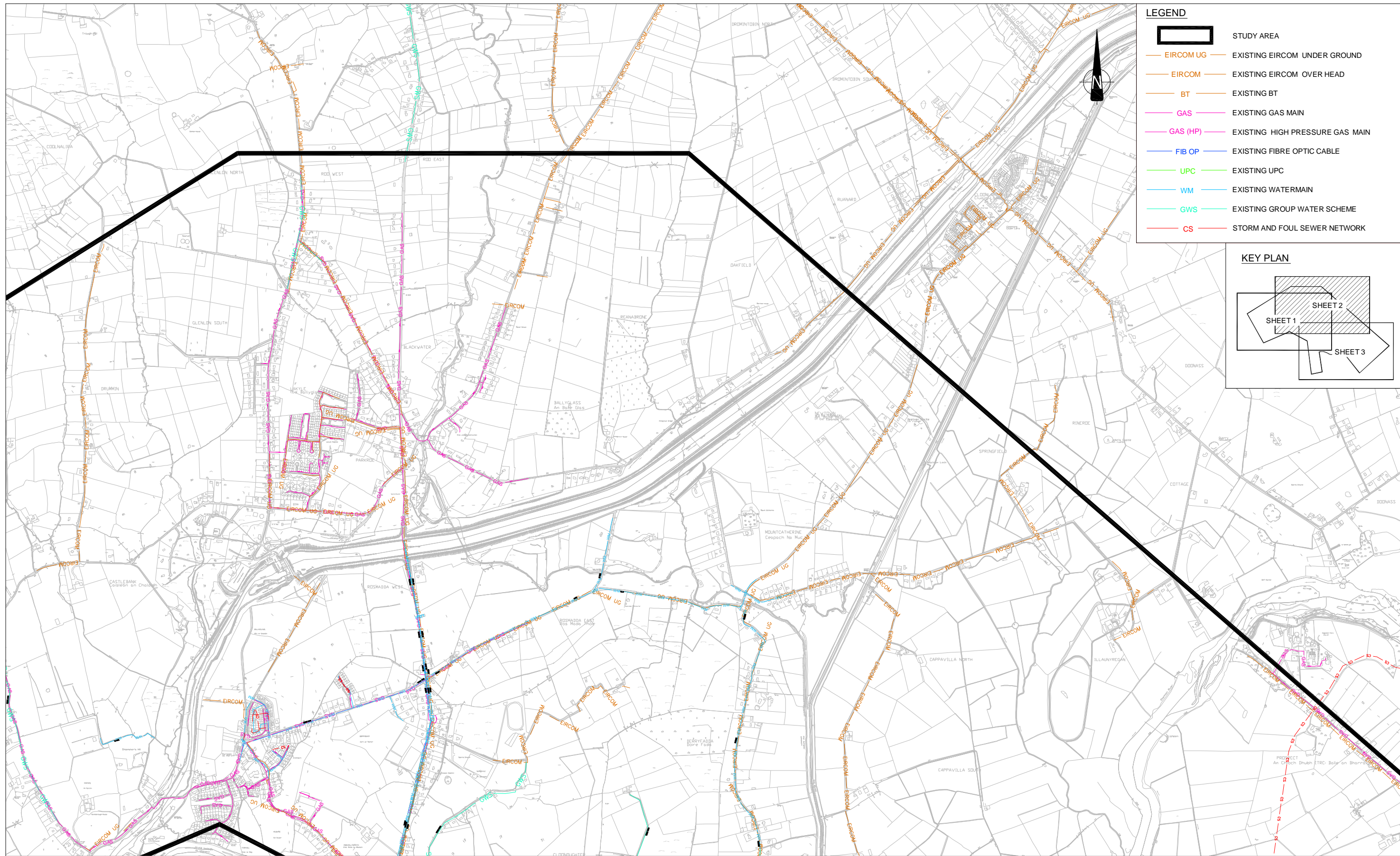
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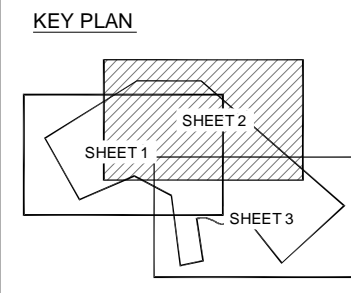
Malone O'Regan McGillicuddy

Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		UTILITIES CONSTRAINTS (EXCLUDING ELECTRICITY SUPPLY) SHEET 1 OF 3	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3405	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



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	BT EXISTING BT
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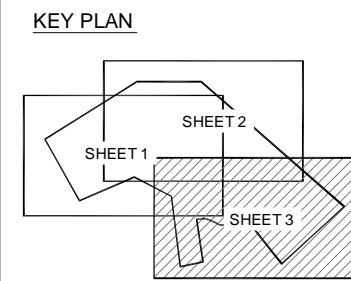
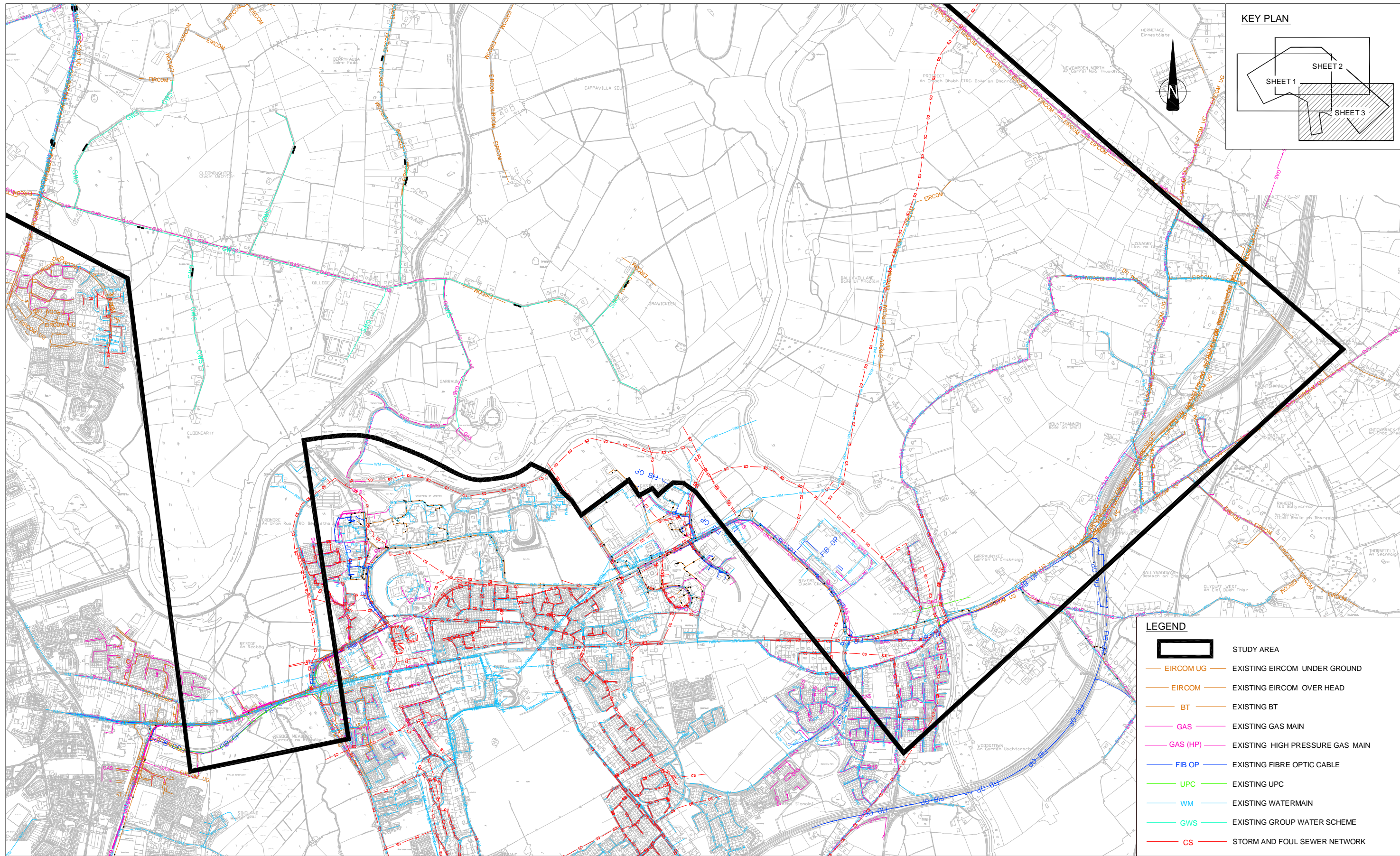
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Designed: LF Checked: MC Approved: MC Status: WORK IN PROGRESS

Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		UTILITIES CONSTRAINTS (EXCLUDING ELECTRICITY SUPPLY) SHEET 2 OF 3	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3406	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		

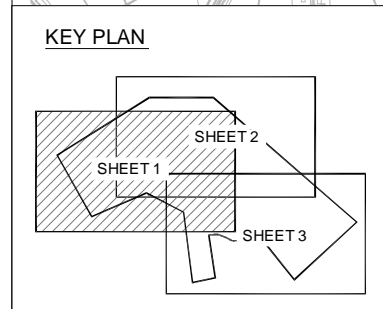
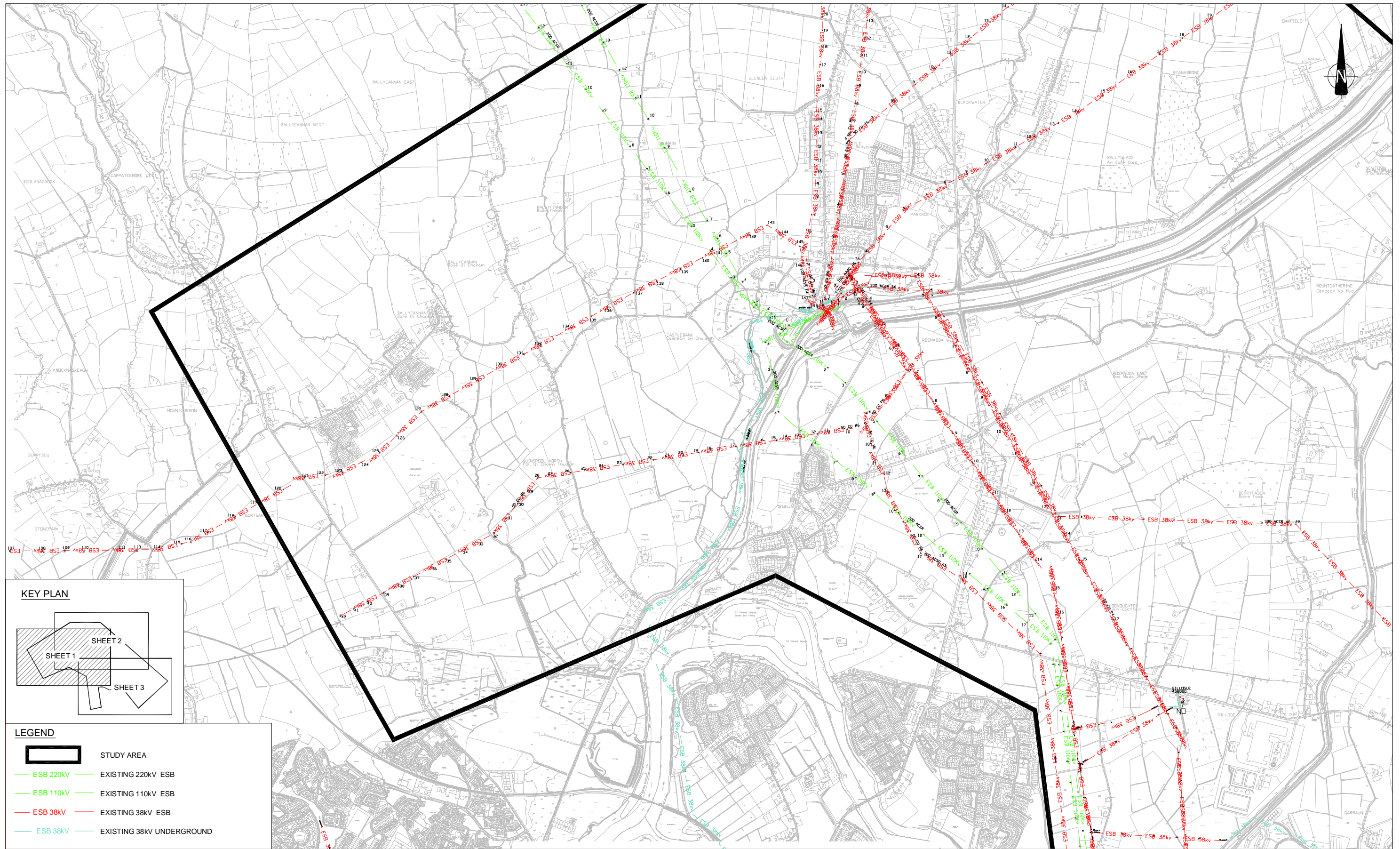


LEGEND

	STUDY AREA
	EIRCOM UG EXISTING EIRCOM UNDER GROUND
	EIRCOM EXISTING EIRCOM OVER HEAD
	BT EXISTING BT
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<p>LIMERICK CITY COUNCIL COMHAIRLE CATHRACH LUIMNIGH</p>	<p>An Roinn Iompair Turasóireachta agus Spóirt Department of Transport, Tourism and Sport</p>	<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>Date</th> <th>By</th> <th>Chkd</th> <th>App'd</th> </tr> </thead> <tbody> <tr> <td> </td> <td>Stage</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Revision	Date	By	Chkd	App'd		Stage											<p>Roughan & O'Donovan Consulting Engineers Civil - Structural - Transportation - Environmental www.roughanodonovan.com</p> <p>Arena House, Arena Road, Sandyford, Dublin 18. Tel : +353 1 294 0800 Fax : +353 1 294 0820 e-mail : info@rod.ie</p> <p>MRG consulting engineers Civil and Structural Engineers Malone O'Regan McGillicuddy</p> <p>No 4 Day Place, Tallin, Co. Kerry Telephone : (066) 7123130 Telex : (066) 7123134 E-Mail : info@mrge.ie</p>	<table border="1"> <tr> <td colspan="4">Project Title LIMERICK NORTHERN DISTRIBUTOR ROAD</td> </tr> <tr> <td colspan="4">Drawing Title UTILITIES CONSTRAINTS (EXCLUDING ELECTRICITY SUPPLY) SHEET 3 OF 3</td> </tr> <tr> <td>Drawn: RE</td> <td>Job No: 10194</td> <td>Drawing No: RCSR-3407</td> <td>Rev: </td> </tr> <tr> <td>Scale: 1:20,000 @ A3</td> <td>Date: SEPTEMBER 2012</td> <td> </td> <td> </td> </tr> </table>	Project Title LIMERICK NORTHERN DISTRIBUTOR ROAD				Drawing Title UTILITIES CONSTRAINTS (EXCLUDING ELECTRICITY SUPPLY) SHEET 3 OF 3				Drawn: RE	Job No: 10194	Drawing No: RCSR-3407	Rev:	Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		
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<p>Ordnance Survey Ireland Licence No EN 0006512 © Ordnance Survey Ireland and Government of Ireland.</p>		<p>Sep 20, 2012 - 12:28pm Drawing Location: L:\acad\dwg\2010\10194\Drge103-RSR\Final Issue\RCSR-3407.dwg</p>		<p>Designed: LF Checked: MC Approved: MC Status: DRAFT</p>																																		

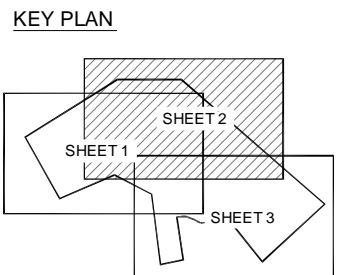
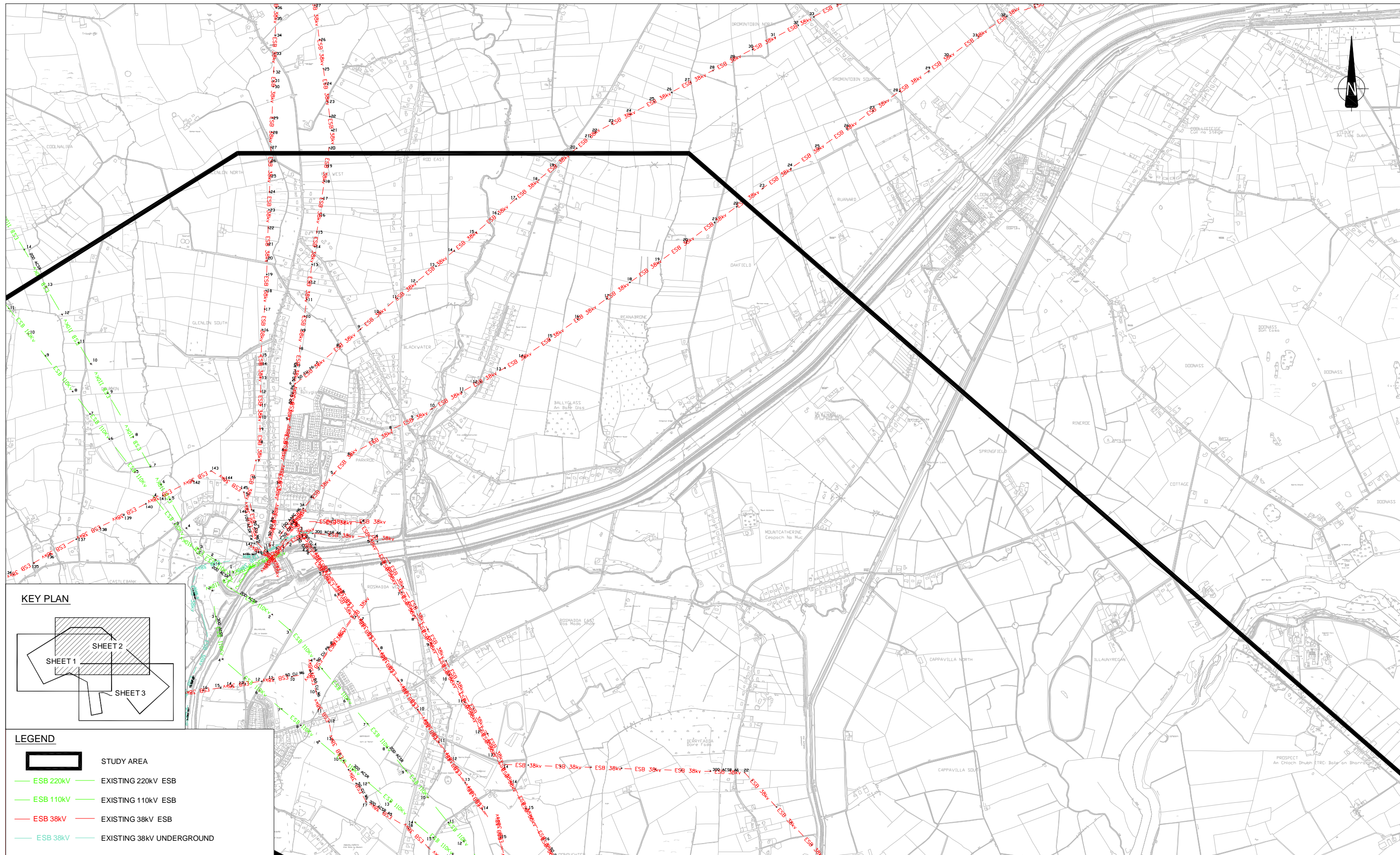
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LEGEND

	STUDY AREA
	ESB 220kV EXISTING 220kV ESB
	ESB 110kV EXISTING 110kV ESB
	ESB 38kV EXISTING 38kV ESB
	ESB 38kV EXISTING 38kV UNDERGROUND

 Comhairle Contae an Chláir CLAR: County Council	 LIMERICK CITY COUNCIL COMHAIRLE CATHRACH LUIMNIGH	 An Roinn Iompair Turasóireachta agus Spóirt Department of Transport, Tourism and Sport	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>No.</td> <td>Revision</td> <td>Date</td> <td>By</td> <td>Chkd</td> <td>Appd</td> </tr> <tr> <td></td> <td>Stage</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>PRELIMINARY</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>APPROVAL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>TENDER</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	No.	Revision	Date	By	Chkd	Appd		Stage						PRELIMINARY						APPROVAL						TENDER						CONSTRUCTION					 Roughan & O'Donovan Consulting Engineers Civil - Structural - Transportation - Environment www.roughanodonovan.com Arena House, Arena Road, Sandymount, Dublin 18. Tel : +353 1 294 0800 Fax : +353 1 294 0820 e-mail : info@rod.ie	 MRG consulting engineers No. 4 Day Place, Tralee, Co. Kerry Telephone : (066) 7123130 Telex : (066) 71231304 E-Mail : info@mrge.ie MALONE O'REGAN MCGILICADDY CIVIL AND STRUCTURAL ENGINEERS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">Project Title</td> </tr> <tr> <td colspan="4" style="text-align: center;">LIMERICK NORTHERN DISTRIBUTOR ROAD</td> </tr> <tr> <td colspan="4">Drawing Title</td> </tr> <tr> <td colspan="4" style="text-align: center;">ELECTRICITY SUPPLY CONSTRAINTS SHEET 1 OF 3</td> </tr> <tr> <td>Drawn: RE</td> <td>Job No: 10194</td> <td>Drawing No: RCSR-3408</td> <td>Rev:</td> </tr> <tr> <td>Scale: 1:20,000 @ A3</td> <td>Date: SEPTEMBER 2012</td> <td></td> <td></td> </tr> </table>	Project Title				LIMERICK NORTHERN DISTRIBUTOR ROAD				Drawing Title				ELECTRICITY SUPPLY CONSTRAINTS SHEET 1 OF 3				Drawn: RE	Job No: 10194	Drawing No: RCSR-3408	Rev:	Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		
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- LEGEND**
- STUDY AREA
 - EXISTING 220kV ESB
 - EXISTING 110kV ESB
 - EXISTING 38kV ESB
 - EXISTING 38kV UNDERGROUND



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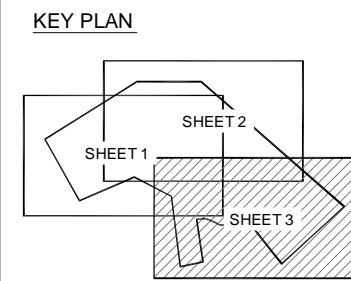
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Design: LF | Checked: MC | Approved: MC | Status: WORK IN PROGRESS

Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		ELECTRICITY SUPPLY CONSTRAINTS SHEET 2 OF 3	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3409	Rev:
Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



LEGEND

	STUDY AREA
	EXISTING 220kV ESB
	EXISTING 110kV ESB
	EXISTING 38kV ESB
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COMHAIRE CATHRACH LUIMNIGH



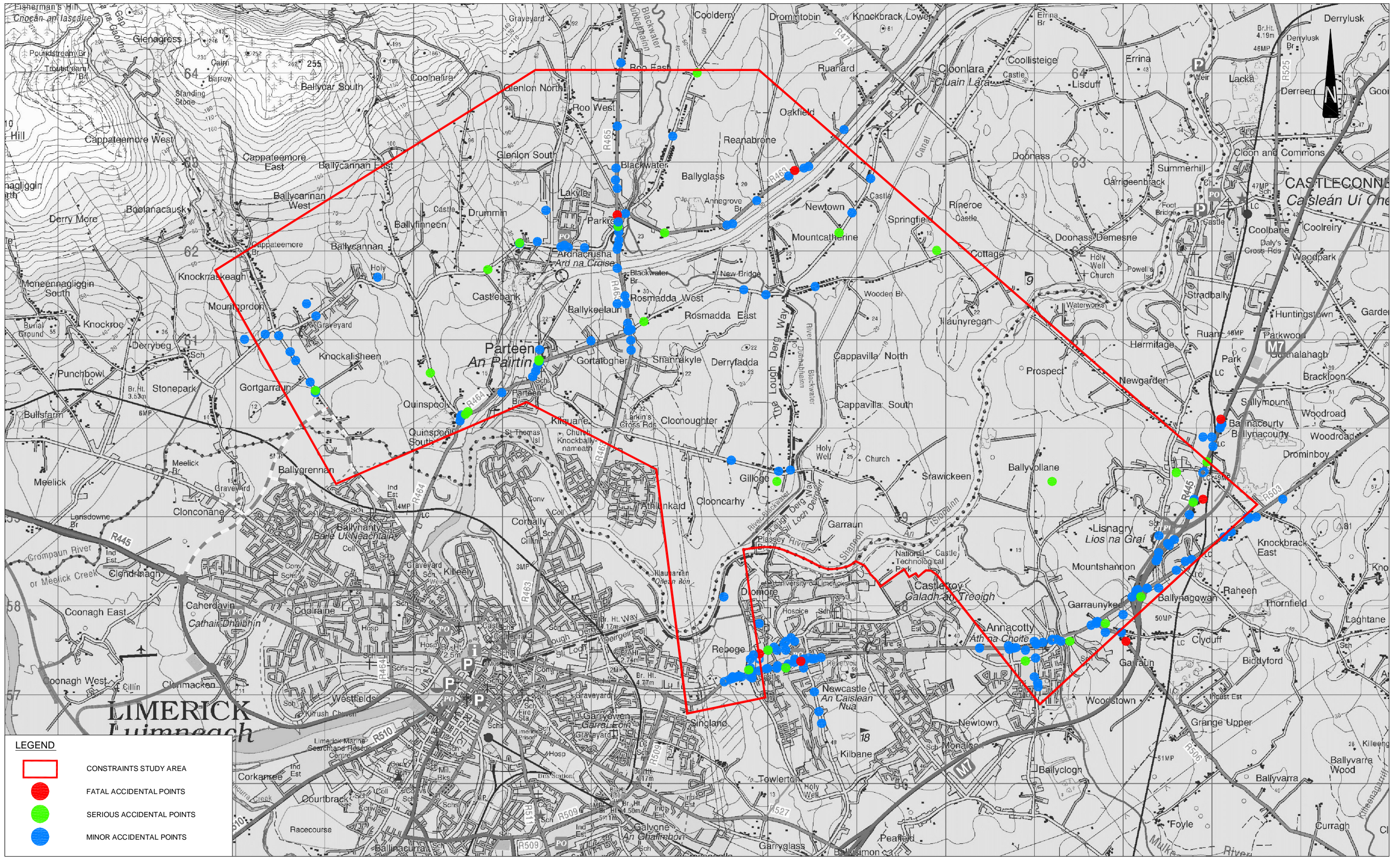
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Drawing Title	ELECTRICITY SUPPLY CONSTRAINTS SHEET 3 OF 3		
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Scale: 1:20,000 @ A3	Date: SEPTEMBER 2012		



LEGEND

	CONSTRAINTS STUDY AREA
	FATAL ACCIDENTAL POINTS
	SERIOUS ACCIDENTAL POINTS
	MINOR ACCIDENTAL POINTS



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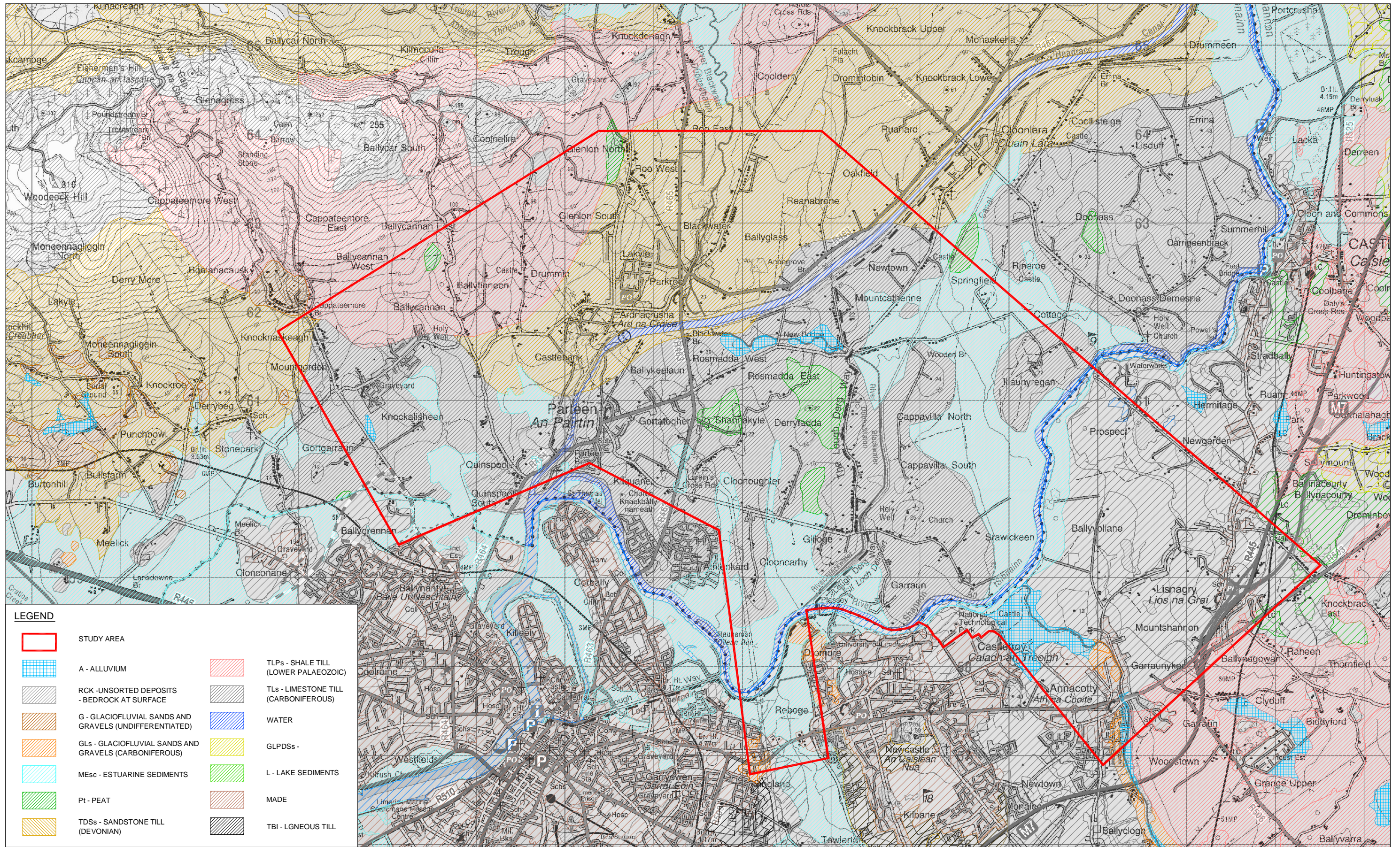
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Project Title	LIMERICK NORTHERN DISTRIBUTOR ROAD		
Drawing Title	TRAFFIC ROAD ACCIDENTS (1996-2009 PERIOD)		
Drawn:	LA	Job No:	10194
Scale:	1:40,000 @ A3	Date:	SEPTEMBER 2012
Drawing No:	RCSR-3501	Rec:	



LEGEND

	STUDY AREA		TLPs - SHALE TILL (LOWER PALAEOZOIC)
	A - ALLUVIUM		TLs - LIMESTONE TILL (CARBONIFEROUS)
	RCK - UNSORTED DEPOSITS - BEDROCK AT SURFACE		WATER
	G - GLACIOFLUVIAL SANDS AND GRAVELS (UNDIFFERENTIATED)		GLPDSs -
	GLs - GLACIOFLUVIAL SANDS AND GRAVELS (CARBONIFEROUS)		L - LAKE SEDIMENTS
	MEsc - ESTUARINE SEDIMENTS		MADE
	Pt - PEAT		TBI - LGNEOUS TILL
	TDSs - SANDSTONE TILL (DEVONIAN)		

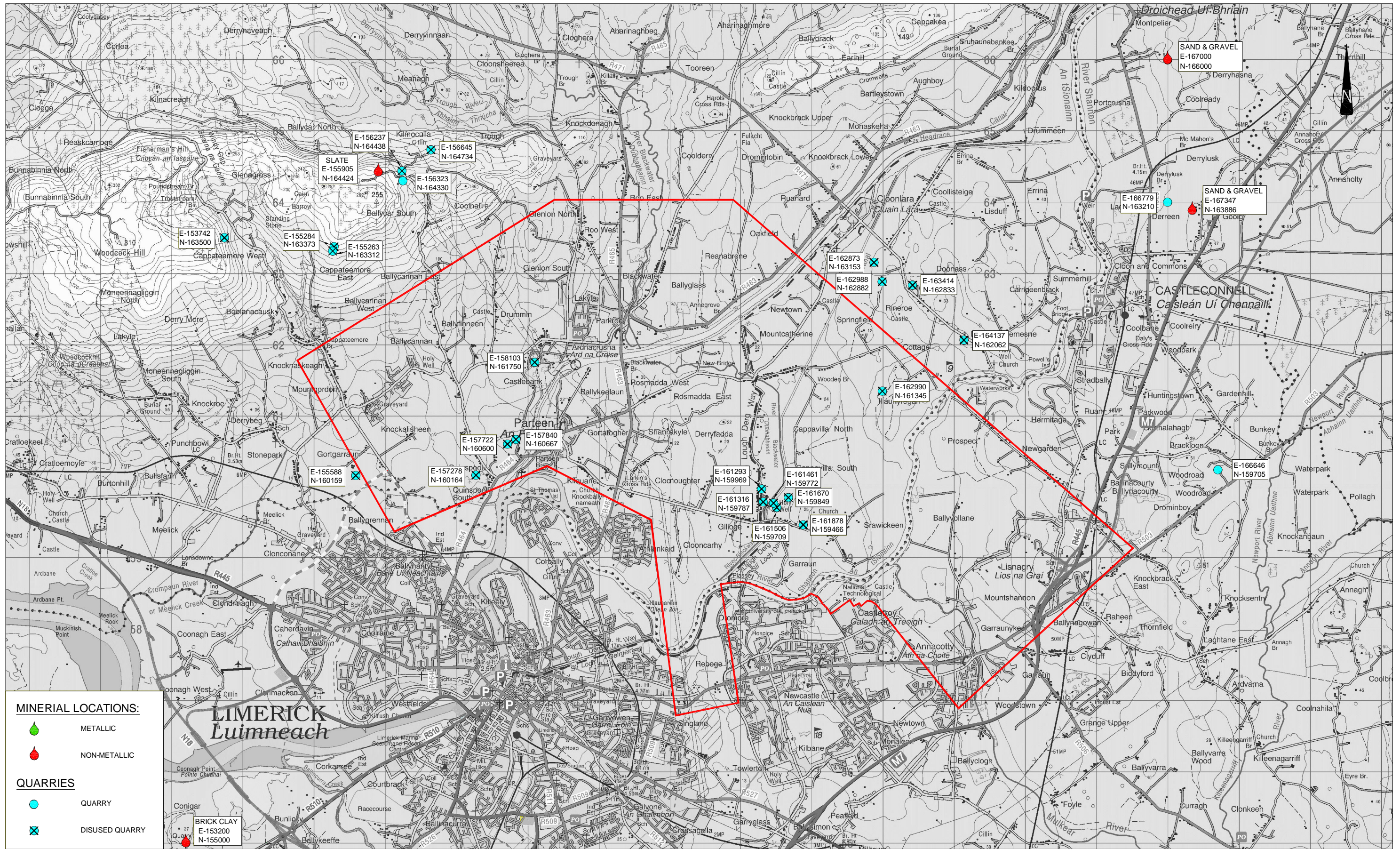
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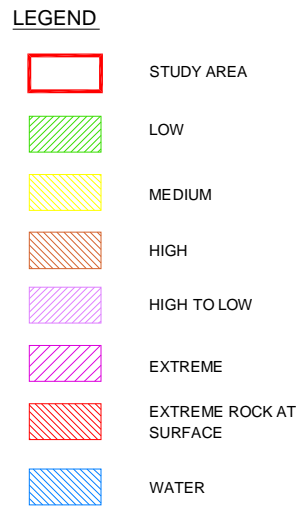
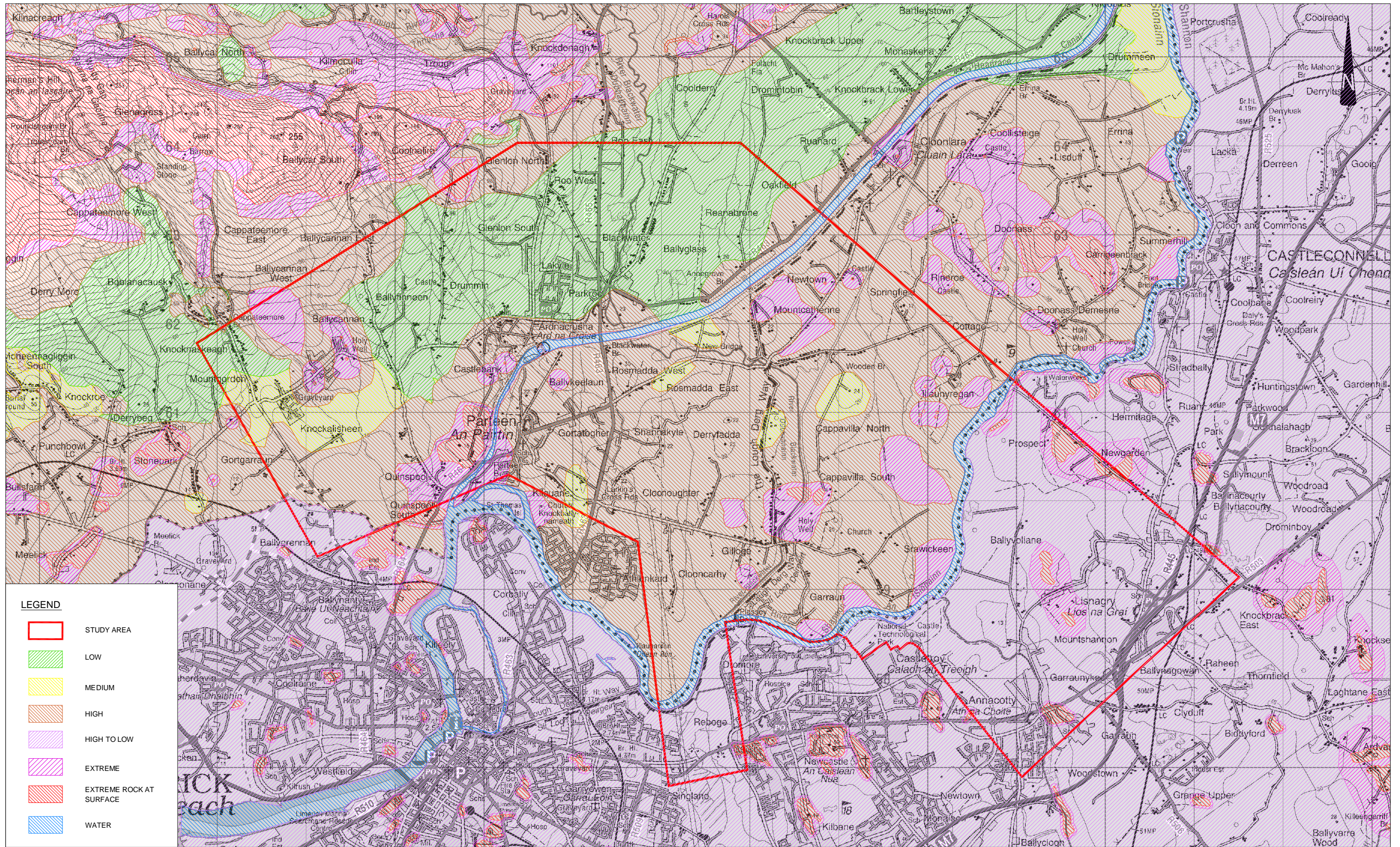
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 Comhairle Contae an Chairí Clare County Council	 LIMERICK CITY COUNCIL COMHAIRLE CATHRACH LUIMNIGH	 An Roinn Iompair Turasóireachta agus Spóirt Department of Transport, Tourism and Sport	 Roughan & O'Donovan Consulting Engineers Civil - Structural - Transportation - Environmental No. 4 Day Place, Tralee, Co. Kerry Telephone : (066) 7123130 Telefax : (066) 7123194 E-Mail : info@rmg.ie www.roughanodonovan.com	MRG Consulting Engineers Civil and Structural Engineers Malone O'Regan McGillicuddy	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Project Title</td> <td colspan="2">LIMERICK NORTHERN DISTRIBUTOR ROAD</td> </tr> <tr> <td colspan="2">Drawing Title</td> <td colspan="2">QUARRIES AND MINERAL LOCATIONS</td> </tr> <tr> <td>Drawn: RE</td> <td>Job No: 10194</td> <td>Drawing No: RCSR-3603</td> <td>Rev:</td> </tr> <tr> <td>Scale: 1:50,000 @ A3</td> <td>Date: SEPTEMBER 2012</td> <td></td> <td></td> </tr> </table>	Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD		Drawing Title		QUARRIES AND MINERAL LOCATIONS		Drawn: RE	Job No: 10194	Drawing No: RCSR-3603	Rev:	Scale: 1:50,000 @ A3	Date: SEPTEMBER 2012																											
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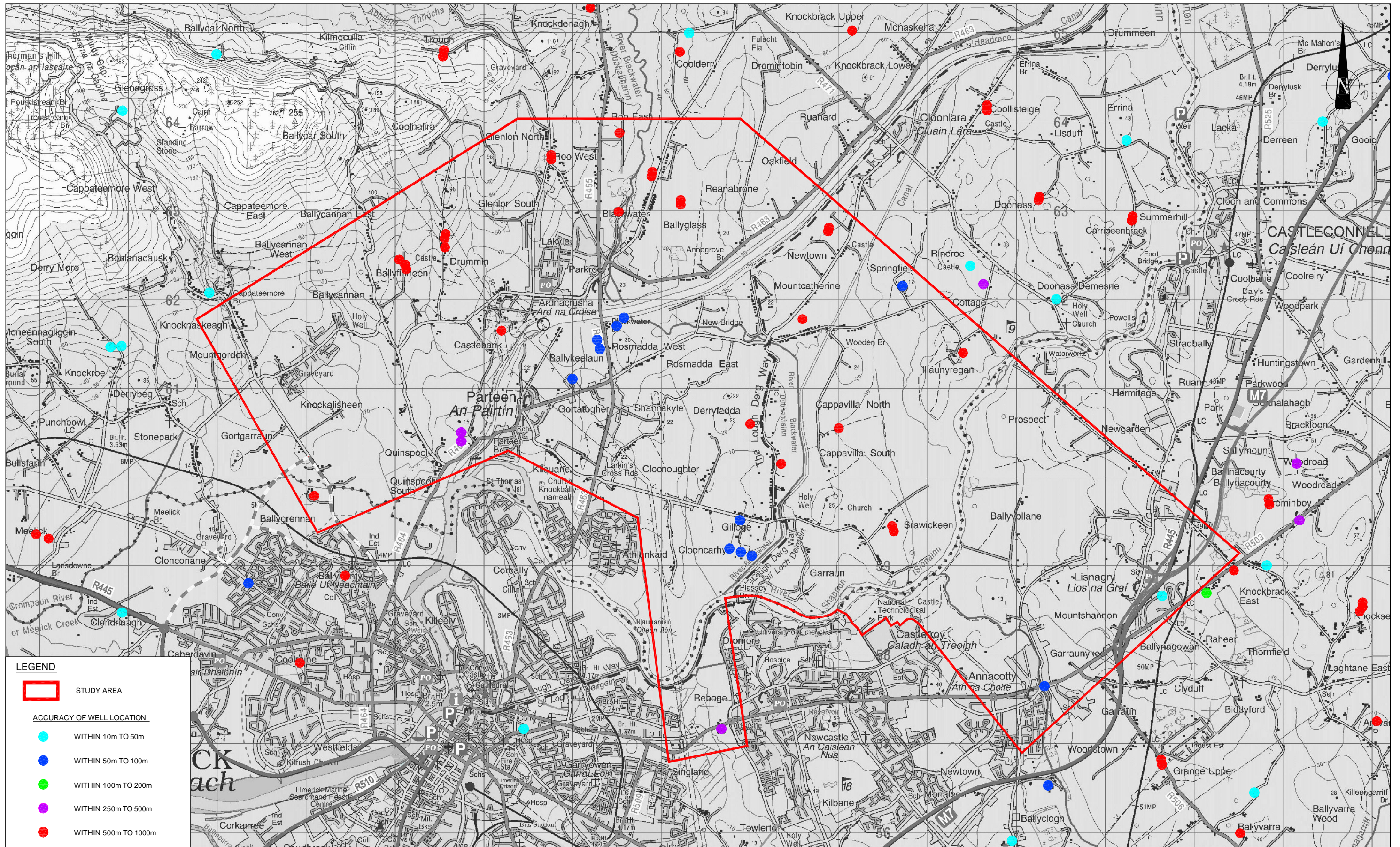
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LEGEND

STUDY AREA

ACCURACY OF WELL LOCATION

- WITHIN 10m TO 50m
- WITHIN 50m TO 100m
- WITHIN 100m TO 200m
- WITHIN 250m TO 500m
- WITHIN 500m TO 1000m

LIMERICK CITY COUNCIL
COMHAIRLE CATHRACH LUIMNIGH

An Roinn Iompair
Turasóireachta agus Spóirt
Department of Transport,
Tourism and Sport

Roughtan & O'Donovan
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Designed: PK Checked: LF Approved: MC Status: WORK IN PROGRESS

Project Title		LIMERICK NORTHERN DISTRIBUTOR ROAD	
Drawing Title		GROUNDWATER WELL LOCATIONS	
Drawn: RE	Job No: 10194	Drawing No: RCSR-3605	Rev:
Scale: 1:40,000 @ A3	Date: SEPTEMBER 2012		