

Rt Hon Andy Burnham,
Mayor of Greater Manchester

Dear Mayor Burnham,

We wrote to you on 20/05/24 to alert you to critical failings in Transport for the North's 2024 Strategic Transport Plan (STP). These failings will effectively sabotage any prospect of the STP delivering the transformation in railway network connectivity and capacity, necessary to bring about Levelling-up and Net Zero in the Northern Powerhouse. In terms of lost economic growth, they will cost the Northern economy £100 billion per annum, over £6,000 per citizen every year.

At Network North, we are in a unique position to level this criticism against Transport for the North, the official body charged with developing the region's railway network. You will hopefully recall our brief discussions at the Northern Transport Summit on 21st March, and the flyer that we circulated, setting out our Network North scheme. Network North (NN) comprises a detailed suite of railway engineering interventions extending across the Northern Powerhouse. Its routes have been designed to a scale of 1:10,000, bespoke station solutions have been developed in all major cities, and a 'demonstrator timetable' is now in place to illustrate both the journey time savings that Network North can achieve, and its overall performance as a transformed railway network for the North.

All this demonstrates how Network North will vastly outperform the official Northern Powerhouse Rail (NPR) proposals, on any conceivable metric – either connectivity, capacity, integration with local networks, or adherence to TfN's own journey time targets.

We would like to take this opportunity to explain the key features of Network North, and the particular advantages that it will bring for the Greater Manchester region that you represent.

Network North – A Fully Integrated Network for Passengers and Freight

Network North is the Northern element of the High Speed UK concept for an alternative Integrated Rail Plan covering all of Great Britain, completely independent of HS2, Northern Powerhouse Rail and all other official schemes. Network North comprises an integrated blend of new construction, upgrading of existing lines and restoration of abandoned lines, holistically designed as a network to achieve the following:

Comprehensive Direct Links between all Principal Cities (see Figures A01 & A02)

Network North will provide high-quality and frequent services comprehensively interlinking the 7 principal cities of the Northern Powerhouse – Liverpool, Manchester, Sheffield, Bradford, Leeds, Hull and Newcastle, plus Manchester Airport – and extending to most communities, large and small. *By contrast, NPR will fail to deliver comprehensive services, not only for major cities such as Sheffield and Bradford, but also most of the region's smaller communities.*

Transpennine Capacity Transformed (see Figure A03)

Network North will provide 4 new tracks for Transpennine passenger services, and 2 new tracks for freight. Only with an intervention of such scale can sufficient extra capacity be provided to support Levelling-up and Net Zero in the Northern Powerhouse. *By contrast, NPR will provide only 2 new Transpennine tracks.*

Achievement of TfN Journey Time Specification (see Figure A04)

Network North will meet or beat all of TfN's targets for intercity journey times, and overall it will achieve 9 out of 11 specified timings. *By contrast, NPR will achieve only 1 out of 11.*

Full Integration with Existing Network (see Figure A05)

Network North will be fully integrated with the North's existing rail network. Its services will access all stations served by the present intercity network, and bespoke solutions have been developed in all

principal cities (and at Manchester Airport) to deliver a step-change increase in capacity – necessary both for planned Network North intercity services and for local services which will be approximately doubled in frequency. *By contrast, the Strategic Transport Plan is devoid of any substantive proposals for an integrated and higher capacity transport system.*

Establishment of a Coast-to-Coast Transpennine Freight Railway (see Figure A06)

Network North’s plans include the establishment of a dedicated route from Liverpool to Immingham on which railfreight will be ‘prime user’. This will realise TfN’s own vision for a ‘Freight Superhighway connecting Liverpool and the Humber’ as set out in the 2018 Strategic Transport Plan – *now regrettably deleted from all subsequent iterations of Transport for the North’s Strategic Transport Plan.*

Network North in Greater Manchester (see Figures A07GM & A08GM)

Network North within Greater Manchester has been designed to address all aspects of the critical congestion that afflicts east-west rail flows through the heart of the conurbation. The following principal interventions are envisaged:

- A new east-west tunnel from Ardwick to Eccles, with new underground platforms at Manchester Piccadilly and Manchester Central – for both trunk Transpennine intercity traffic and local traffic.
- A new ‘South Manchester Loop’, allowing direct services from most major Northern Powerhouse communities to access Manchester Airport at its existing station, converted from terminus to ‘through’ configuration, and largely eliminating the need to pass through central Manchester.
- The abandoned ‘Tiviotdale’ route restored and reengineered as the ‘South Manchester Bypass’ element of a dedicated coast-to-coast freight railway extending from Liverpool to Immingham.

Taken in combination, these developments will transform Greater Manchester’s railway network, allowing local passenger services to be approximately doubled in frequency.

Network North’s performance for Greater Manchester, far exceeding that of Northern Powerhouse Rail, is summarised below:

Northern Powerhouse Community / Station	Refer Figure	Average journey time reduction (percentage)		Direct links** within Northern Powerhouse (o/o 17)		Direct links** outside Northern Powerhouse (o/o 37)	
		NPR	NN	NPR	NN	NPR	NN
** including existing links		NPR	NN	NPR	NN	NPR	NN
Manchester (Picc)	A09	10%	37%	17	17	18	29
Manchester Airport	A10	2%	39%	12	17	0	6
Stockport	A11	5%	39%	10	16	17	27

Northern Powerhouse Rail’s demonstrably huge performance deficit renders it utterly unfit for purpose as a regional railway network, and – in its failure to deliver on either economic or environmental priorities – directly contrary to the public interest. Our massively superior Network North scheme shows a clear way forward for a higher-capacity, better-connected and fully integrated public transport system in the Northern Powerhouse, and we wish to engage with all Northern Mayors as a matter of urgency. We are of course keen to ensure that our proposals best meet the needs of the people you represent; but most importantly, we would respectfully request your cooperation to ensure that clear railway corridors through cities are preserved, and safeguarded from urban development, and that – where tunnelling is required – pile-free corridors are also maintained.

We will contact you shortly with a view to arranging a meeting.

Yours sincerely,

Colin Elliff BSc CEng MICE
Civil Engineering Principal, HSUK

PS Further information regarding HSUK and Network North can be found on www.highspeeduk.co.uk.

APPENDIX A

Diagrams showing HSUK/Network North proposals for development of railway network in Greater Manchester

- A01 HSUK/Network North 'Tube Map'
- A02 HSUK/Network North Intercity Services
- A03 HSUK/NN Proposed Passenger Works
- A04 HSUK/NN Intercity & Local Network
- A05 Compliance with TfN Journey Time Spec
- A06 HSUK/NN Proposed Freight Works
- A07_{GM} HSUK/NN proposed New Works & Upgrades in Greater Manchester
- A08_{GM} Indicative HSUK/NN Greater Manchester suburban services
- A09_{MA} Direct intercity/local links from Manchester
- A10_{MAN} Direct intercity/local links from MAN Airport
- A11_{SK} Direct intercity/local links from Stockport

**HSUK PRIMARY LINKS
IN NORTHERN
POWERHOUSE REGION
ALL PRINCIPAL CITIES
FULLY INTERLINKED**

To calculate journey times on longer routes
(e.g. Newcastle-Leeds) add **2** minutes 'dwell
time' at intermediate stations

Newcastle-Leeds JT = $15+2+26+2+15 = 60$

Journey times & routes interlinking major
Northern Powerhouse cities based on
detailed HSUK 'Demonstrator Timetable'

*HSUK Northern Powerhouse services
continue to Edinburgh & Glasgow via
new cross-Border high speed line*

Newcastle - Edinburgh: **37** minutes
Edinburgh - Glasgow: **20** minutes

**Network
North** working
with...
High Speed UK

A01

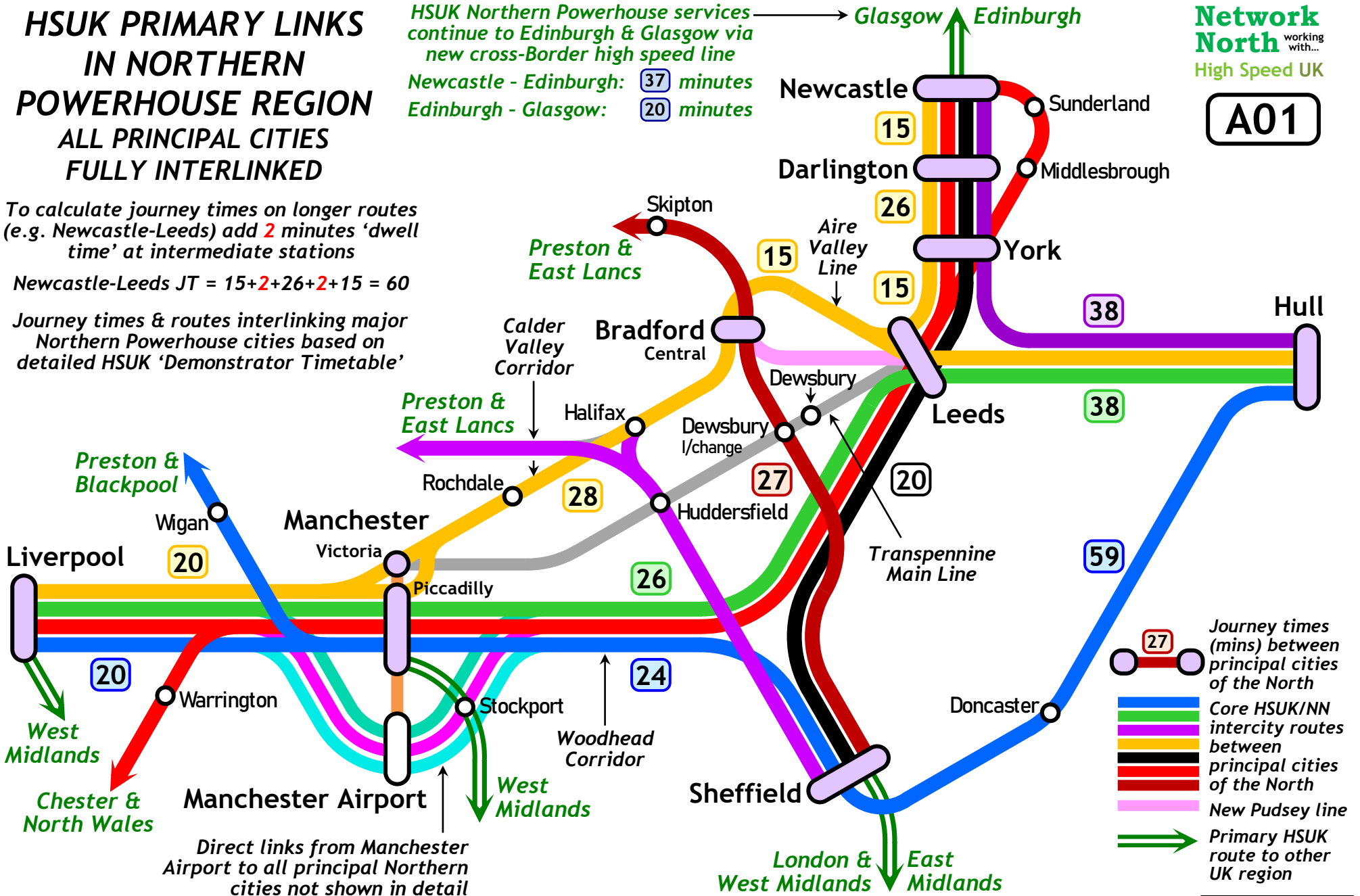


Figure I03J : HSUK / Network North 'Tube Map' showing primary intercity links & key journey times

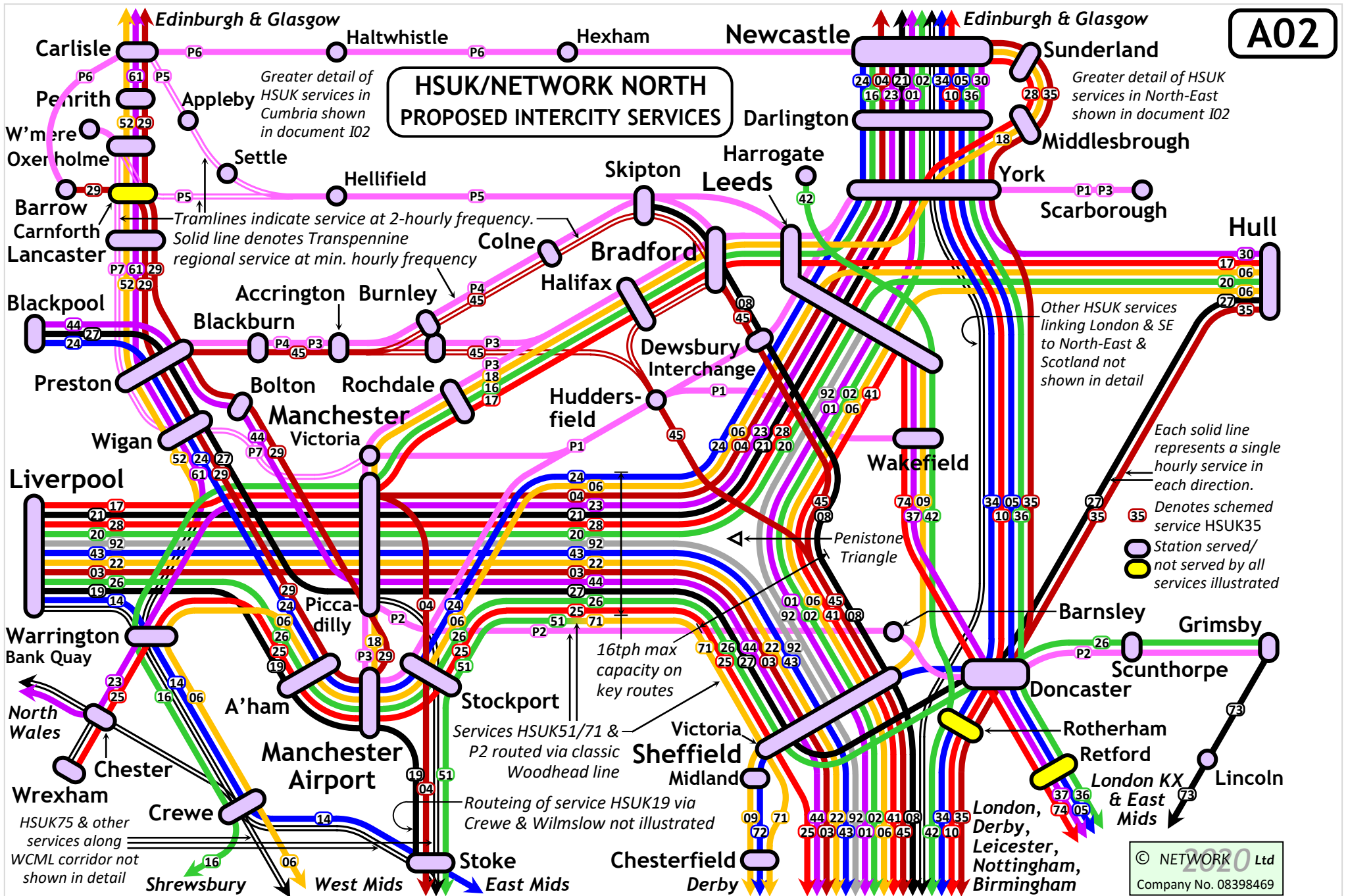
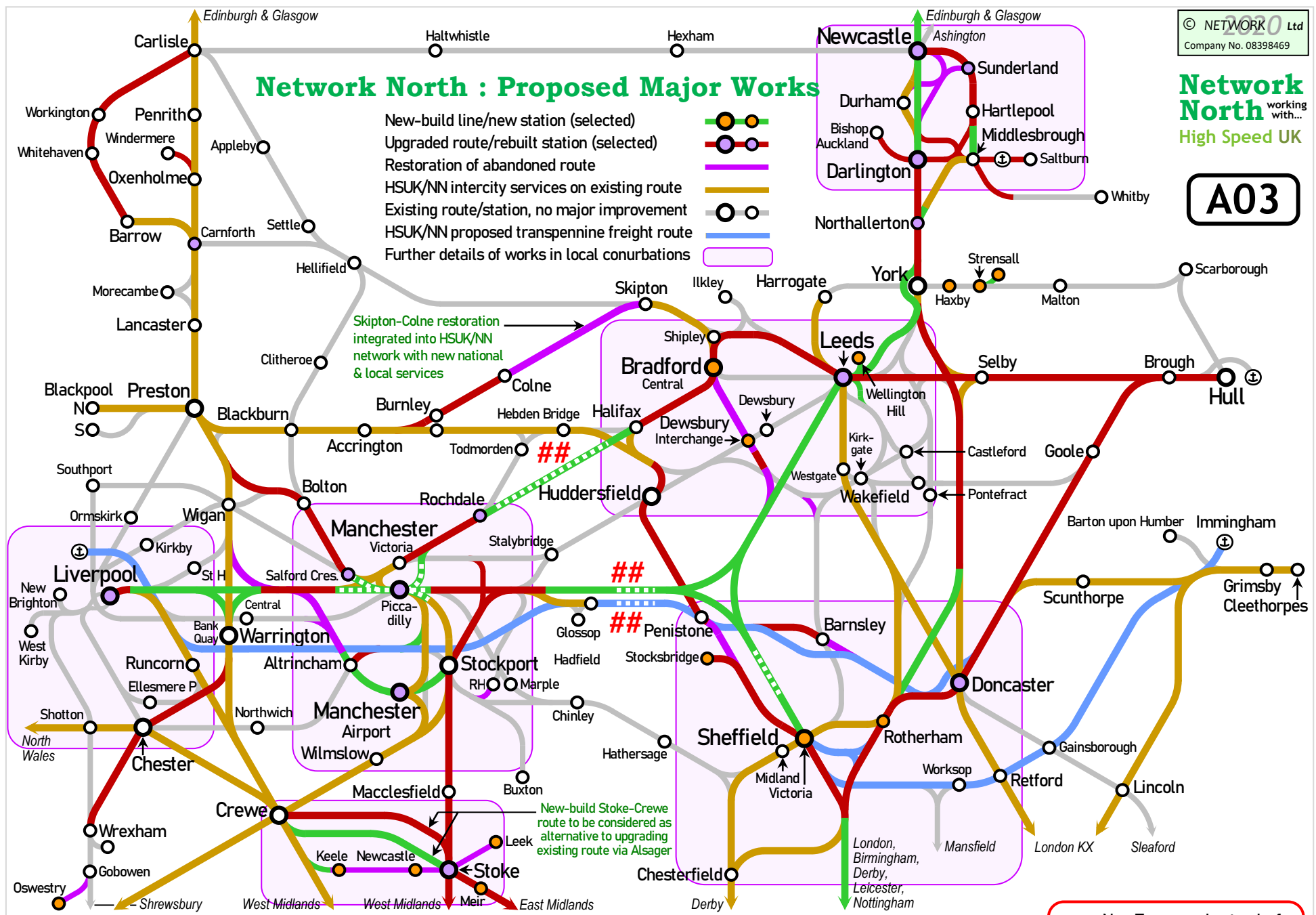
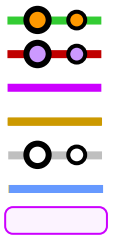


Figure I03I : HSUK / Network North 'Toothpaste Diagram' showing proposed intercity services across Northern Powerhouse

Network North : Proposed Major Works

- New-build line/new station (selected)
- Upgraded route/rebuilt station (selected)
- Restoration of abandoned route
- HSUK/NN intercity services on existing route
- Existing route/station, no major improvement
- HSUK/NN proposed transpennine freight route
- Further details of works in local conurbations



Skipton-Colne restoration integrated into HSUK/NN network with new national & local services

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New-build Stoke-Crewe route to be considered as alternative to upgrading existing route via Alsager

London, Birmingham, Derby, Leicester, Nottingham

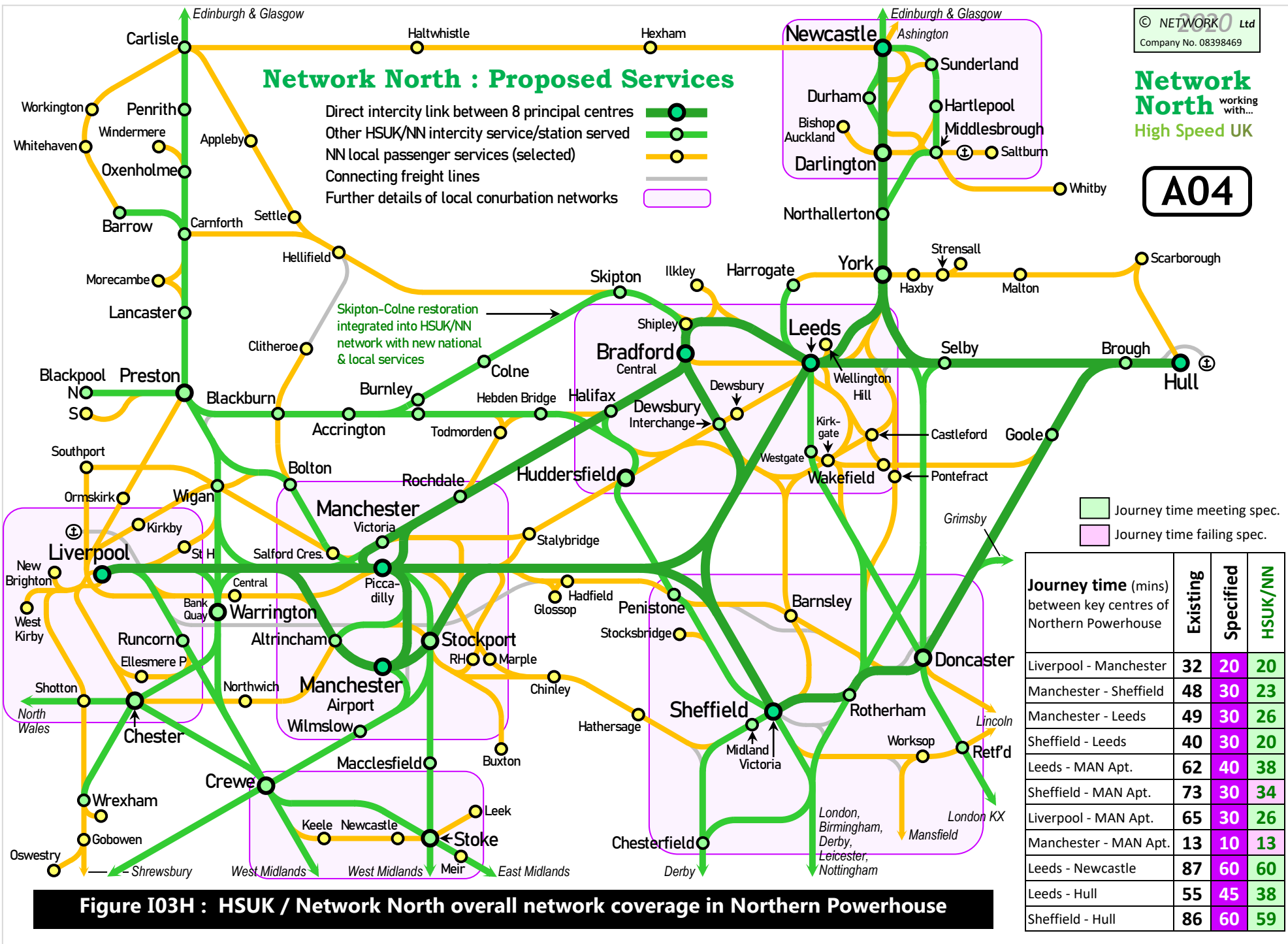
Mansfield

London KX

Sleaford

Figure I03B : Proposed HSUK / Network North Major Works for Passenger Services

New Transpennine tracks for passenger or freight traffic

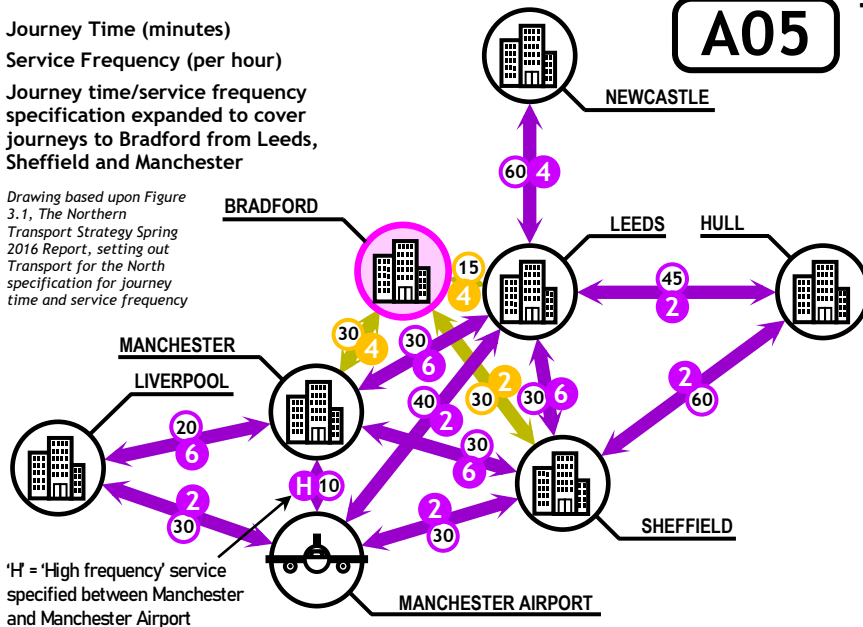


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Transport for the North Specification for Intercity Journey Time & Service Frequency (March 2016)

- 60 Journey Time (minutes)
- 4 Service Frequency (per hour)
- 30 Journey time/service frequency specification expanded to cover journeys to Bradford from Leeds, Sheffield and Manchester
- 4

Drawing based upon Figure 3.1, The Northern Transport Strategy Spring 2016 Report, setting out Transport for the North specification for Journey time and service frequency

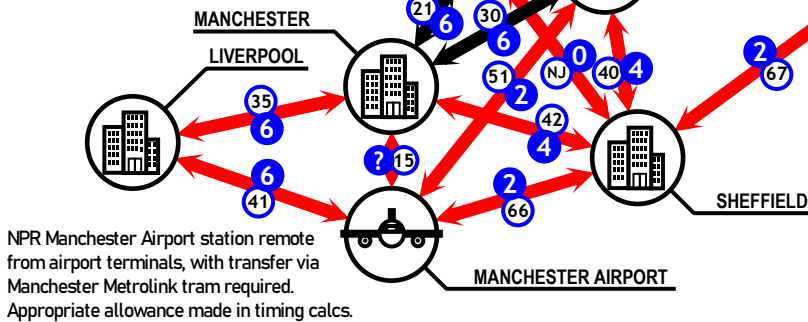


Specified Journey Time (mins)		
Existing Journey Time (mins)		
Liverpool - Manchester	32	20
Manchester - Sheffield	48	30
Manchester - Leeds	49	30
Sheffield - Leeds	40	30
Leeds - MAN Airport	62	40
Sheffield - MAN Airport	73	30
Liverpool - MAN Airport	65	30
Manchester - MAN Apt.	13	10
Leeds - Newcastle	87	60
Leeds - Hull	55	45
Sheffield - Hull	86	60

Northern Powerhouse Rail Performance against TfN Journey Time / Service Specification (April 2024)

- 60 NPR Journey Time (minutes)
- 4 NPR Service Frequency (per hour)
- ↔ Journey Time Spec achieved
- ↔ Journey Time Spec not achieved
- NJ No Direct Journey

Timings to new NPR Bradford station, remote from city centre & from existing Interchange & Forster Square stations. Note NPR Manchester-Leeds route via Bradford

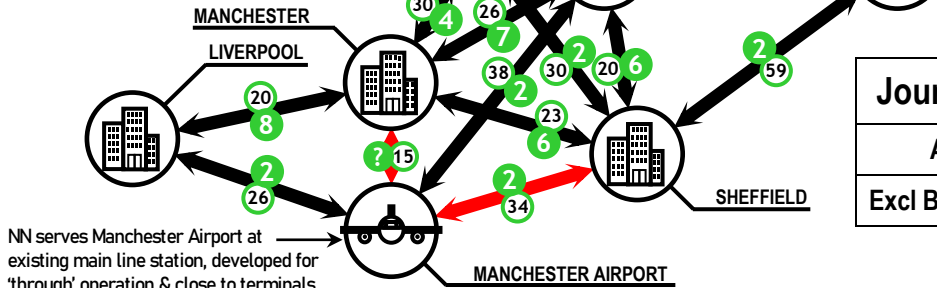


Journeys	Meeting JT spec	Failing JT spec	Total
All	3	11	14
Excl Bradford	1	10	11

Network North (NN) Performance against TfN Journey Time / Service Specification (April 2024)

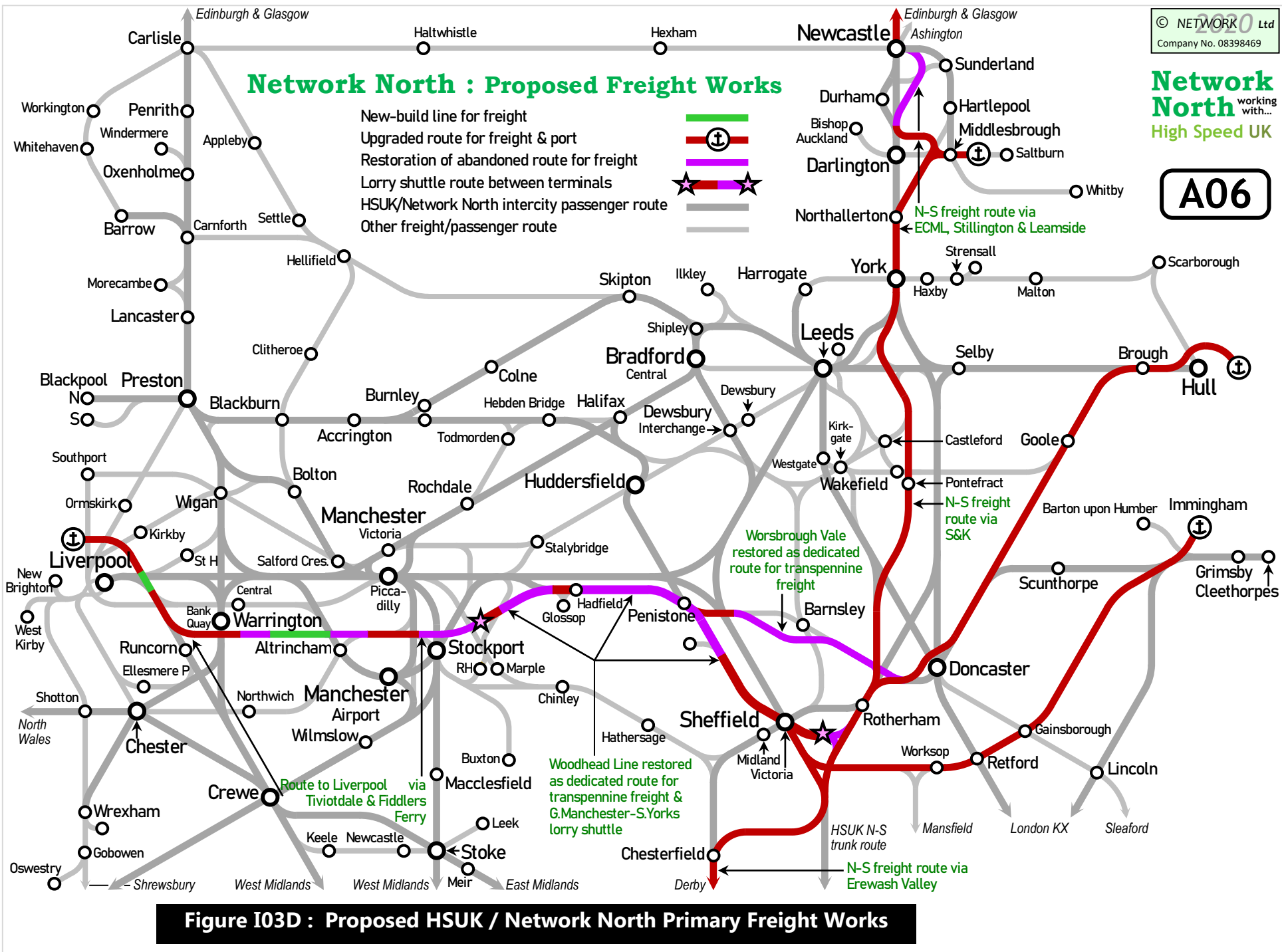
- 60 NN Journey Time (minutes)
- 4 NN Service Frequency (per hour)
- ↔ Journey Time Spec achieved
- ↔ Journey Time Spec not achieved
- NJ No Direct Journey

NN serves Bradford at new Central station, fully integrated with existing Bradford termini. Note separate 'Woodhead' route linking Manchester & Leeds



Journeys	Meeting JT spec	Failing JT spec	Total
All	12	2	14
Excl Bradford	9	2	11

Figure J03D2 : Performance of Network North and NPR against TfN Specification



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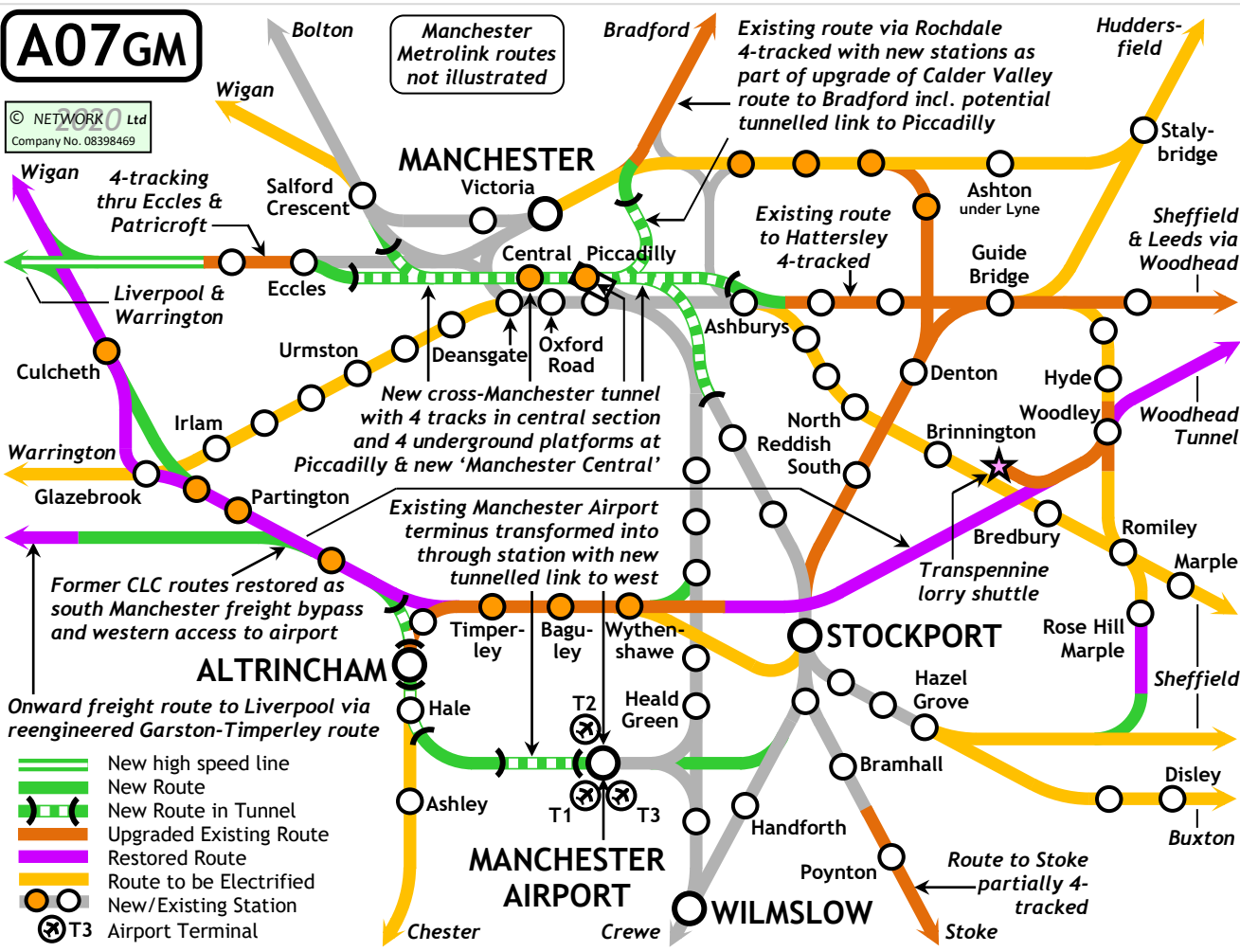


Figure I12C : HSUK/NN proposed New Works & Upgrades in Greater Manchester

A08GM

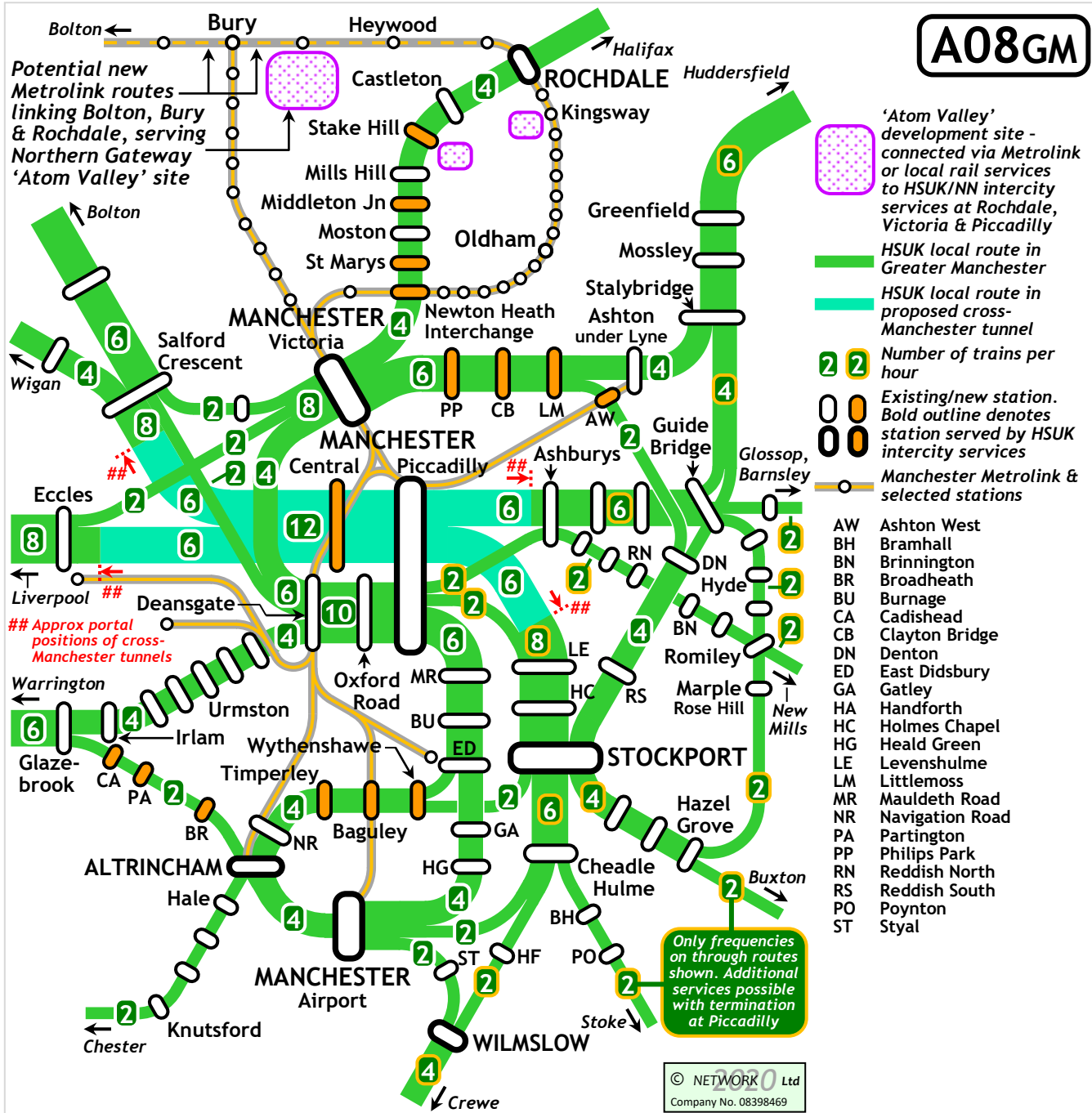
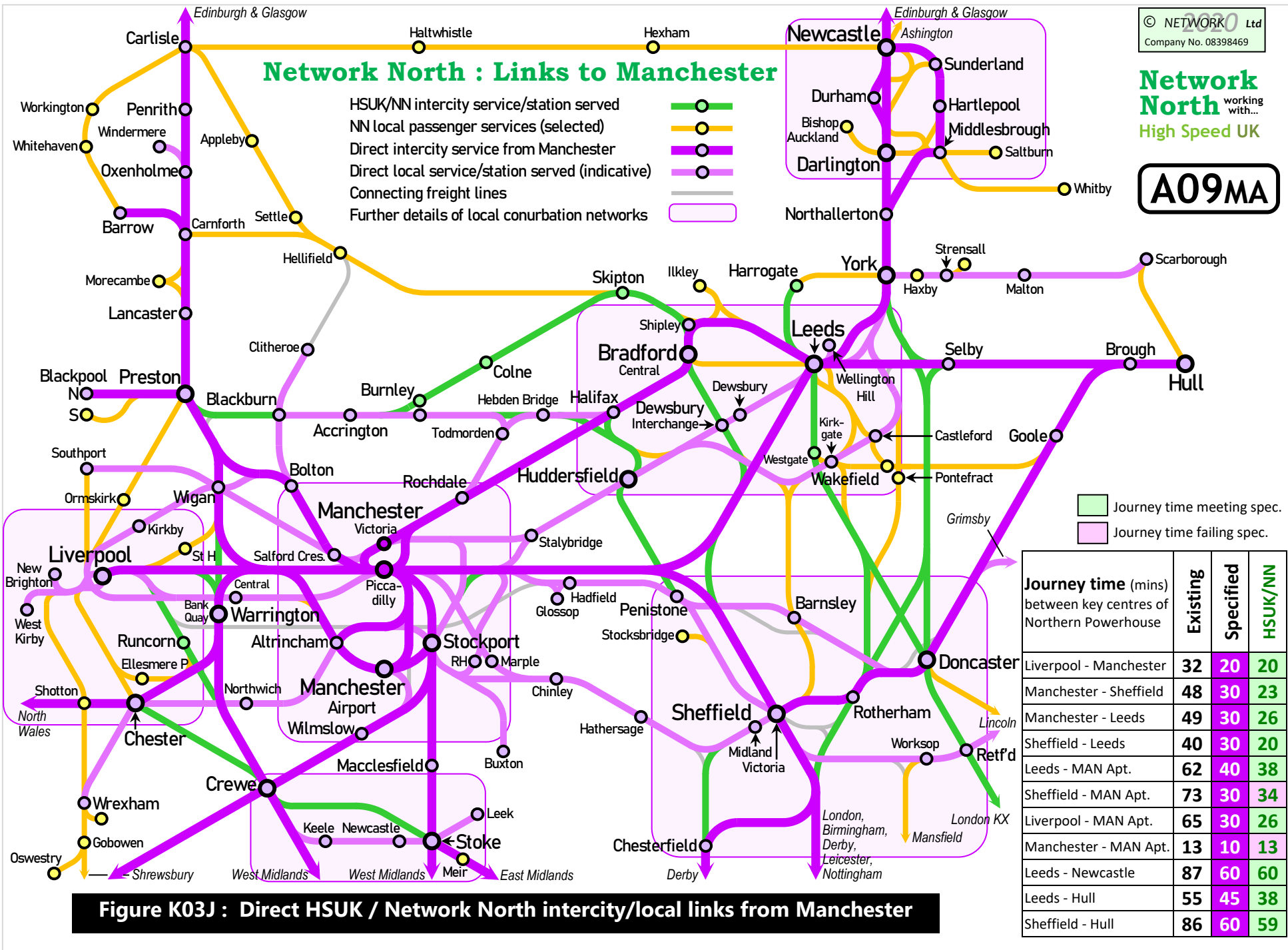


Figure I12D : Indicative HSUK/NN cross-Manchester suburban services



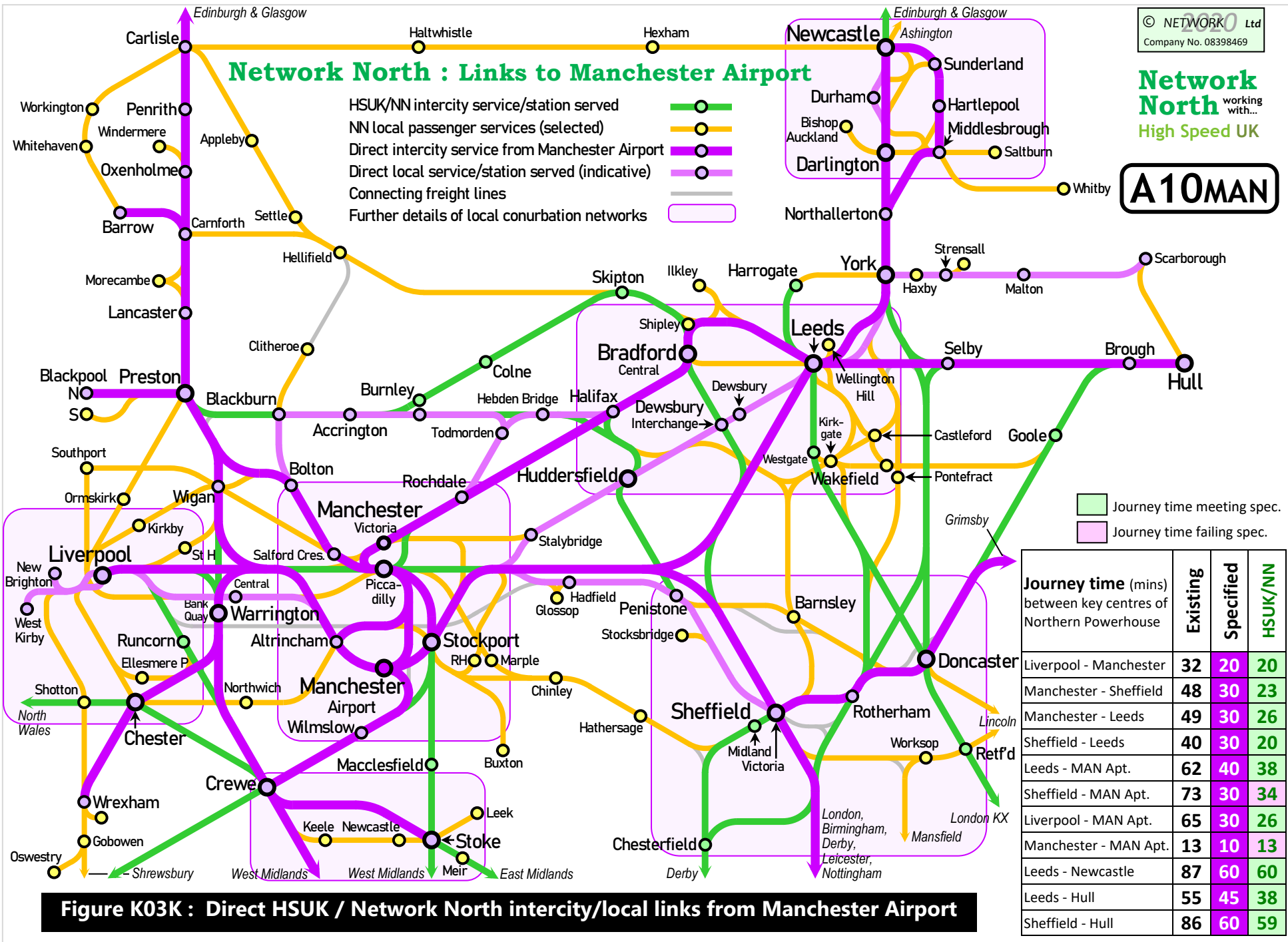


Figure K03K : Direct HSUK / Network North intercity/local links from Manchester Airport

