

Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

Narborough Level Crossing Table

Document reference: 18.5.1

Revision: 01

24 October 2023

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
Regulation 5(2)(q)

Explanation to the Narborough Level Crossing Table

Further to the Examining Authority's ("ExA") Rule 17 Letter of 22nd September 2023 and as indicated in the Applicant's response submitted on 3 October 2023 (REP1-002), the Applicant has now obtained Network Rail train time data through Narborough for the week commencing Wednesday 11th October 2023. Their level crossing data could not be analysed to provide the highway closure times (red light to raised barrier) required by the ExA.

The Applicant has also commissioned and undertaken a video survey over 7 days from Wednesday 11th October 2023, in order to record and analyse the highway activities at the Narborough level crossing.

At this stage therefore, the Applicant has only been able to provide the analysis requested in the Rule 17 Letter for Wednesday 11th October, and will complete the analysis for the remaining 6 days upon receipt of the additional data from the video data relating to the traffic movements and checking the train data with Network Rail.

The purpose of the analysis is to provide the detailed timetable information with analysis of the closure time of the level crossing throughout each hour in every 24 hours to the ExA and to record the traffic movements around the crossing. From a highway perspective the road is closed when the level crossing warning lights turn red; and open when the level crossing barriers are lifted.

The outcome of the analysis in the attached schedule is a snap shot of a typical weekday, based on the Wednesday 11th October as explained above. It should be treated as Work In Progress, but is provided as a helpful indication of barrier downtime at Narborough level crossing. As noted above, the 24/7 version will be completed and submitted to the ExA as soon as possible.

Whilst the ExA's questions in the Rule 17 Letter are restricted to the number of trains per hour; total minutes closed in an hour; and minimum time between openings in an hour, this has been supplemented with further information to better inform the ExA of the overall performance of the level crossing.

As this is an analysis including the perturbations of the day, there are examples where the minimum opening time is as low as 19 seconds, which on its own would be completely misleading. The maximum single open time in the same period is 19 minutes 47 seconds, with only 18:00 minutes closed, with 7 trains passing the level crossing.

It should also be noted that as the open and close times will not start or end on the hour, the period of each 'hours' review will be slightly longer or shorter than an exact hour. The total assessment though is over 24 hours. This is evident from the schedule (see column titled: Actual Assessed Period).

The ExA's Schedule required three assessments, being the current situation, with 4 HNRFI trains and with 16 HNRFI trains. The Application has predicated a maximum of 10 trains per day via Narborough and this is the limit of the pathing study agreed with Network Rail. The attached therefore shows the levels associated with the Application. An additional 6 trains each way could be readily accommodated between 23:00 and 06:00, as the ExA will no doubt appreciate.

The Applicant is concerned that any suggestion that more than 10 trains would run via Narborough would lead to confusion, when the recognised purpose of the request is to establish clarity. It is hoped therefore that the attached schedule provides sufficient detail.

The Applicant will provide a Technical Note with the completed 24/7 schedule. The Note will also deal with other issues raised in Representations, taking on board the outcomes of the video survey and timetable analysis.

To assist, Network Rail has provided a letter setting out its position regarding the 45 minutes for a town centre level crossing. This is the point at which additional traffic over and above 45 minutes in an hour might need special measures to be considered by Network Rail. This letter is appended to the Applicant's Responses to the Local Impact Reports (Appendix D: National Transportation Policy Note Document ref 18.4.4).

The Applicant has also worked with Network Rail to validate its closure time for the level crossing at Narborough, which is maintained at 2:31 seconds, at 75mph for freight trains, which would be the running speed for HNRFI rail traffic at this point. Further detail will be provided as part of the Technical Note to be submitted in due course, but it relates in part to improvements underway at the Derby control centre for this line.

TABLE SETTING OUT NARBOROUGH LEVEL CROSSING OPEN & CLOSED TIMES

BETA MODEL

EXA s17 LETTER ANALYSIS								CURRENT SITUATION							
Wed 11th October 2023								CURRENT SITUATION							
HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD	HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD
00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22	00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22
06:00-07:00	6	00:20:24	00:02:12	00:07:10	00:13:11	00:43:02	01:03:26	06:00-07:00	7	00:22:55	00:01:43	00:05:47	00:13:11	00:40:31	01:03:26
07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48	07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48
08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16	08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16
09:00 - 10:00	5	00:11:31	00:03:29	00:12:32	00:17:54	00:50:07	01:01:38	09:00 - 10:00	6	00:14:02	00:01:00	00:09:31	00:17:54	00:47:36	01:01:38
10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41	10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41
11:00 - 12:00	4	00:11:32	00:00:44	00:11:18	00:18:36	00:45:10	00:56:42	11:00 - 12:00	6	00:16:34	00:00:44	00:06:41	00:13:17	00:40:08	00:56:42
12:00 - 13:00	8	00:23:13	00:02:11	00:03:19	00:04:28	00:37:16	01:00:29	12:00 - 13:00	9	00:23:28	00:02:26	00:03:21	00:04:28	00:37:01	01:00:29
13:00 - 14:00	5	00:13:06	00:02:23	00:12:25	00:22:14	00:49:39	01:02:45	13:00 - 14:00	6	00:16:37	00:02:23	00:09:14	00:13:58	00:46:08	01:02:45
14:00 - 15:00	3	00:09:46	00:06:32	00:16:02	00:23:00	00:48:07	00:57:53	14:00 - 15:00	3	00:09:46	00:06:32	00:16:02	00:23:00	00:48:07	00:57:53
15:00 - 16:00	6	00:22:51	00:00:57	00:06:19	00:21:01	00:37:54	01:00:45	15:00 - 16:00	6	00:22:51	00:00:57	00:06:19	00:21:01	00:37:54	01:00:45
16:00 - 17:00	5	00:15:00	00:02:50	00:08:39	00:14:02	00:43:13	00:58:13	16:00 - 17:00	6	00:17:29	00:02:50	00:08:09	00:14:02	00:40:44	00:58:13
17:00 - 18:00	6	00:19:16	00:00:51	00:07:23	00:17:34	00:44:17	01:03:33	17:00 - 18:00	7	00:21:47	00:00:51	00:05:58	00:13:53	00:41:46	01:03:33
18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17	18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17
19:00 - 20:00	3	00:09:18	00:10:32	00:15:08	00:17:46	00:45:23	00:54:41	19:00 - 20:00	3	00:09:18	00:10:32	00:15:08	00:17:46	00:45:23	00:54:41
20:00 - 21:00	7	00:18:00	00:00:19	00:07:16	00:19:47	00:50:52	01:08:52	20:00 - 21:00	7	00:18:00	00:00:19	00:07:16	00:19:47	00:50:52	01:08:52
21:00 - 22:00	5	00:15:20	00:03:52	00:10:27	00:17:34	00:41:49	00:57:09	21:00 - 22:00	5	00:15:20	00:03:52	00:10:27	00:17:34	00:41:49	00:57:09
22:00 - 23:00	2	00:08:41	00:23:37	00:24:00	00:24:23	00:48:00	00:56:41	22:00 - 23:00	2	00:08:41	00:23:37	00:24:00	00:24:23	00:48:00	00:56:41
23:00 - 24:00	4	00:11:15	00:01:58	00:14:31	00:35:17	00:43:33	00:54:48	23:00 - 24:00	4	00:11:15	00:01:58	00:14:31	00:35:17	00:43:33	00:54:48

23:59:59

EXA s17 LETTER ANALYSIS								4 TRAINS EACH WAY							
Wed 11th October 2023								4 TRAINS EACH WAY							
HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD	HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD
00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22	00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22
06:00-07:00	7	00:22:55	00:01:43	00:05:47	00:13:11	00:40:31	01:03:26	06:00-07:00	7	00:22:55	00:01:43	00:05:47	00:13:11	00:40:31	01:03:26
07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48	07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48
08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16	08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16
09:00 - 10:00	5	00:11:31	00:03:29	00:12:32	00:17:54	00:50:07	01:01:38	09:00 - 10:00	6	00:14:02	00:01:00	00:09:31	00:17:54	00:47:36	01:01:38
10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41	10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41
11:00 - 12:00	4	00:11:32	00:00:44	00:11:18	00:18:36	00:45:10	00:56:42	11:00 - 12:00	6	00:16:34	00:00:44	00:06:41	00:13:17	00:40:08	00:56:42
12:00 - 13:00	8	00:23:13	00:02:11	00:03:19	00:04:28	00:37:16	01:00:29	12:00 - 13:00	9	00:23:28	00:02:26	00:03:21	00:04:28	00:37:01	01:00:29
13:00 - 14:00	5	00:13:06	00:02:23	00:12:25	00:22:14	00:49:39	01:02:45	13:00 - 14:00	6	00:16:37	00:02:23	00:09:14	00:13:58	00:46:08	01:02:45
14:00 - 15:00	3	00:09:46	00:06:32	00:16:02	00:23:00	00:48:07	00:57:53	14:00 - 15:00	3	00:09:46	00:06:32	00:16:02	00:23:00	00:48:07	00:57:53
15:00 - 16:00	6	00:22:51	00:00:57	00:06:19	00:21:01	00:37:54	01:00:45	15:00 - 16:00	6	00:22:51	00:00:57	00:06:19	00:21:01	00:37:54	01:00:45
16:00 - 17:00	5	00:15:00	00:02:50	00:08:39	00:14:02	00:43:13	00:58:13	16:00 - 17:00	6	00:17:29	00:02:50	00:08:09	00:14:02	00:40:44	00:58:13
17:00 - 18:00	6	00:19:16	00:00:51	00:07:23	00:17:34	00:44:17	01:03:33	17:00 - 18:00	7	00:21:47	00:00:51	00:05:58	00:13:53	00:41:46	01:03:33
18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17	18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17
19:00 - 20:00	3	00:09:18	00:10:32	00:15:08	00:17:46	00:45:23	00:54:41	19:00 - 20:00	3	00:09:18	00:10:32	00:15:08	00:17:46	00:45:23	00:54:41
20:00 - 21:00	7	00:18:00	00:00:19	00:07:16	00:19:47	00:50:52	01:08:52	20:00 - 21:00	7	00:18:00	00:00:19	00:07:16	00:19:47	00:50:52	01:08:52
21:00 - 22:00	5	00:15:20	00:03:52	00:10:27	00:17:34	00:41:49	00:57:09	21:00 - 22:00	5	00:15:20	00:03:52	00:10:27	00:17:34	00:41:49	00:57:09
22:00 - 23:00	2	00:08:41	00:23:37	00:24:00	00:24:23	00:48:00	00:56:41	22:00 - 23:00	2	00:08:41	00:23:37	00:24:00	00:24:23	00:48:00	00:56:41
23:00 - 24:00	4	00:11:15	00:01:58	00:14:31	00:35:17	00:43:33	00:54:48	23:00 - 24:00	4	00:11:15	00:01:58	00:14:31	00:35:17	00:43:33	00:54:48

23:59:59

EXA s17 LETTER ANALYSIS								10 TRAINS EACH WAY							
Wed 11th October 2023								10 TRAINS EACH WAY							
HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD	HOURS	Number of trains in hours	TOTAL Minutes CLOSED	MINIMUM Minutes OPEN between events	AVERAGE Minutes OPEN between events	MAXIMUM Minutes OPEN between events	TOTAL Minutes OPEN	ACTUAL ASSESSED PERIOD
00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22	00:00-06:00	4	00:13:19	00:01:16	01:10:01	02:33:14	05:50:03	06:03:22
06:00-07:00	7	00:22:55	00:01:43	00:05:47	00:13:11	00:40:31	01:03:26	06:00-07:00	7	00:22:55	00:01:43	00:05:47	00:13:11	00:40:31	01:03:26
07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48	07:00 - 08:00	4	00:16:01	00:00:55	00:15:36	00:24:35	00:46:47	01:02:48
08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16	08:00 - 09:00	5	00:18:51	00:04:05	00:08:21	00:17:29	00:33:25	00:52:16
09:00 - 10:00	5	00:11:31	00:03:29	00:12:32	00:17:54	00:50:07	01:01:38	09:00 - 10:00	6	00:14:02	00:01:00	00:09:31	00:17:54	00:47:36	01:01:38
10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41	10:00 - 11:00	3	00:20:41	00:06:12	00:13:00	00:22:28	00:39:00	00:59:41
11:00 - 12:00	4	00:11:32	00:00:44	00:11:18	00:18:36	00:45:10	00:56:42	11:00 - 12:00	6	00:16:34	00:00:44	00:06:41	00:13:17	00:40:08	00:56:42
12:00 - 13:00	8	00:23:13	00:02:11	00:03:19	00:04:28	00:37:16	01:00:29	12:00 - 13:00	9	00:23:28	00:02:26	00:03:21	00:04:28	00:37:01	01:00:29
13:00 - 14:00	5	00:13:06	00:02:23	00:12:25	00:22:14	00:49:39	01:02:45	13:00 - 14:00	8	00:18:46	00:02:23	00:07:20	00:13:58	00:43:59	01:02:45
14:00 - 15:00	3	00:09:46	00:06:32	00:16:02	00:23:00	00:48:07	00:57:53	14:00 - 15:00	5	00:12:17	00:06:32	00:10:39	00:15:35	00:42:36	00:54:53
15:00 - 16:00	6	00:22:51	00:00:57	00:06:19	00:21:01	00:37:54	01:00:45	15:00 - 16:00	7	00:28:22	00:00:57	00:05:03	00:14:16	00:35:23	01:03:45
16:00 - 17:00	5	00:15:00	00:02:50	00:08:39	00:14:02	00:43:13	00:58:13	16:00 - 17:00	6	00:17:29	00:02:50	00:08:09	00:14:02	00:40:44	00:58:13
17:00 - 18:00	6	00:19:16	00:00:51	00:07:23	00:17:34	00:44:17	01:03:33	17:00 - 18:00	7	00:21:47	00:00:51	00:05:58	00:13:53	00:41:46	01:03:33
18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17	18:00 - 19:00	5	00:16:38	00:02:57	00:09:32	00:17:27	00:47:39	01:04:17
19:00 - 20:00	3	00:09:18	00:10:32	00:15:08	00:17:46	00:45:23	00:54:41	19:00 - 20:00	5	00:14:51	00:05:43	00:09:57	00:14:44	00:39:50	00:54:41
20:00 - 21:00	7	00:18:00	00:00:19	00:07:16	00:19:47	00:50:52	01:08:52	20:00 - 21:00	8	00:18:46	00:00:19	00:06:00	00:15:47	00:41:58	01:00:44
21:00 - 22:00	5	00:15:20	00:03:52	00:10:27	00:17:34	00:41:49	00:57:09	21:00 - 22:00</							