

Work Specification

Leeds

Potternewton Lane

Harrogate Road

Version:

Potternewton_Lane_HarrogateRd_V7

	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

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description

- AR1 is used to delay ped phase G from appearing, if there is traffic in the middle of the junction approaching the crossing
- AR2 is used to delay ped phase H from appearing, if there is traffic in the middle of the junction approaching the crossing
- P Loop (Dummy phase O) is used to call stage 3 if there are right turners queueing at phase E stopline (offside lane)
- NMVD is used to extend stage 2 so traffic from phase A can get to phase D and not block the middle of the junction impeding traffic coming from phase C

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phase conditions

Name	Nr	Weg phase type	Min Green	Min Red	state at init/break	turn on sequence	turn off sequence	junction part
A	1	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
B	2	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
C	3	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
D	4	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
E	5	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
F	6	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
G	7	pedestrian	10 s	1 s	red		blackout 3s	1
H	8	pedestrian	5 s	1 s	red		blackout 3s	1
I	9	driver	7 s	1 s	off	red/yellow 2s	yellow 3s	1
J	10	pedestrian	5 s	1 s	red		blackout 3s	1
K	11	pedestrian	9 s	1 s	red		blackout 3s	1
L	12	pedestrian	5 s	1 s	red		blackout 3s	1
M	13	pedestrian	5 s	1 s	red		blackout 3s	1
N	14	single green	3 s	1 s	off			1
O	15	single green	4 s	1 s	off			1
P	16	single green	2 s	1 s	off			1
pbG	17	buzzer/tactile	10 s	1 s	off			1
pbH	18	buzzer/tactile	5 s	1 s	off			1
pbJ	19	buzzer/tactile	5 s	1 s	off			1
pbK	20	buzzer/tactile	9 s	1 s	off			1
pbL	21	buzzer/tactile	5 s	1 s	off			1
pbM	22	buzzer/tactile	5 s	1 s	off			1

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signal

phase	Nr	signal	Nr	aspect	Name	tech / Ø	collar	si.-monit.
A	1	A[1]	1	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
		A[2]	2	1	red	 LED 200mm		
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
A	1	A[12]	12	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
B	2	B[11]	11	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
B	2	B[13]	13	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
		B[13p]	13p	1	red	 LED 200mm		
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
C	3	C[5]	5	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
		C[6]	6	1	red	 LED 200mm		
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
D	4	D[14]	14	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
		D[14p]	14p	1	red	 LED 200mm		
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		

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signal

phase	Nr	signal	Nr	aspect	Name	tech / Ø	collar	si.-monit.
E	5	E[17]	17	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
E	5	E[20p]	20p	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
E	5	E[26]	26	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
F	6	F[20]	20	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
F	6	F[21]	21	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
	F[21p]	21p	1	red	 LED 200mm		observed	
			2	yellow	 LED 200mm			
			3	green	 LED 200mm			
G	7	G[18]	18	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
G	7	G[19]	19	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
H	8	H[24]	24	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
H	8	H[25]	25	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
I	9	I[15]	15	1	red	 LED 200mm		observed
				2	yellow	 LED 200mm		
				3	green	 LED 200mm		
	I[16]	16	1	red	 LED 200mm		observed	
			2	yellow	 LED 200mm			
			3	green	 LED 200mm			

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signal

phase	Nr	signal	Nr	aspect	Name	tech / Ø	collar	si.-monit.
J	10	J[22]	22	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
J	10	J[23]	23	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
K	11	K[3]	3	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
K	11	K[4]	4	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
L	12	L[7]	7	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
L	12	L[8]	8	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
M	13	M[9]	9	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
M	13	M[10]	10	1	red	 LED 200mm		observed
				3	green	 LED 200mm		
pbG	17	pbG[18p]	18p	3	tactile	 push button tactile		observed
pbG	17	pbG[19p]	19p	3	tactile	 push button tactile		observed
pbH	18	pbH[24p]	24p	3	tactile	 push button tactile		observed
pbH	18	pbH[25p]	25p	3	tactile	 push button tactile		observed
pbJ	19	pbJ[22p]	22p	3	tactile	 push button tactile		observed
pbJ	19	pbJ[23p]	23p	3	tactile	 push button tactile		observed
pbK	20	pbK[3p]	3p	3	tactile	 push button tactile		observed
pbK	20	pbK[4p]	4p	3	tactile	 push button tactile		observed
pbL	21	pbL[7p]	7p	3	tactile	 push button tactile		observed
pbL	21	pbL[8p]	8p	3	tactile	 push button tactile		observed
pbM	22	pbM[9p]	9p	3	tactile	 push button tactile		observed
pbM	22	pbM[10p]	10p	3	tactile	 push button tactile		observed

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digital outputs

output address Name

1	G1
2	G2
3	G3
4	G4
5	G5
6	G6
7	CF
8	DR3
9	DR4
10	DR5
11	DR6

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detectors

Name	phase	signal	input	function	gap time	DFM active	DFM InActive
AMVVD[1]	A	A[1]	1	ext+demand	1.5	600.0	3200.0
pbK[3]	K	K[3]	1	demand	0.0	3276.0	3276.0
pbK[4]	K	K[4]	1	demand	0.0	3276.0	3276.0
CMVD[6]	C	C[6]	1	ext+demand	1.5	600.0	3200.0
pbL[7]	L	L[7]	1	demand	0.0	3276.0	3276.0
pbL[8]	L	L[8]	1	demand	0.0	3276.0	3276.0
pbM[9]	M	M[9]	1	demand	0.0	3276.0	3276.0
pbM[10]	M	M[10]	1	demand	0.0	3276.0	3276.0
BMVD[11.1]	B	B[11]	1	ext+demand	1.5	600.0	3200.0
NMVD[11.2]	N	B[11]	2	ext+demand	0.5	600.0	3200.0
DMVD[14]	D	D[14]	1	ext+demand	1.5	600.0	3200.0
IMVD[15]	I	I[15]	1	ext+demand	1.5	600.0	3200.0
AR1[16]		I[16]	1	extension	2.0	600.0	3200.0
AR2[16.2]		I[16]	2	extension	2.0	600.0	3200.0
EMVD[17.1]	E	E[17]	1	ext+demand	1.5	600.0	3200.0
pbG[18]	G	G[18]	1	demand	0.0	3276.0	3276.0
pbG[19]	G	G[19]	1	demand	0.0	3276.0	3276.0
FMVD[20]	F	F[20]	1	ext+demand	1.5	600.0	3200.0
pbJ[22]	J	J[22]	1	demand	0.0	3276.0	3276.0
pbJ[23]	J	J[23]	1	demand	0.0	3276.0	3276.0
pbH[24]	H	H[24]	1	demand	0.0	3276.0	3276.0
pbH[25]	H	H[25]	1	demand	0.0	3276.0	3276.0
P loop[26]	O	E[26]	1	extension	4.0	600.0	3200.0
F1		IOBox	1	Login	0.0	600.0	3200.0
F2		IOBox	2	Login	0.0	600.0	3200.0
#F3		IOBox	3	Login	0.0	600.0	3200.0
#F4		IOBox	4	Login	0.0	600.0	3200.0
#F5		IOBox	5	Login	0.0	600.0	3200.0
#F6		IOBox	6	Login	0.0	600.0	3200.0
GO		IOBox	7	Login	0.0	600.0	3200.0
D3		IOBox	8	Login	0.0	600.0	3200.0

DFM InActive: no detection for that time can be a trigger to use default values
 DFM active: enduring activation can be used for congestion detection
 Traffic dependency is then reactivated on first change in detector state

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detectors

Name	phase	signal	input	function	gap time	DFM active	DFM InActive
D4		IOBox	9	Login	0.0	600.0	3200.0
D5		IOBox	10	Login	0.0	600.0	3200.0
D6		IOBox	11	Login	0.0	600.0	3200.0

DFM InActive: no detection for that time can be a trigger to use default values
 DFM active: enduring activation can be used for congestion detection
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conflicting and opposing phases

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	pbG	pbH	pbJ	pbK	pbL	pbM
A			X								X		X	X						X		X
B			X								X		X							X		X
C	X	X									X	X		X						X	X	
D						X	X	X	X						X		X	X				
E						X	X	X	X								X	X				
F				X	X				X	X				X	X				X			
G				X	X				X					X	X	X						
H				X	X				X					X	X							
I				X	X	X	X	X						X	X		X	X				
J						X																
K	X	X	X											X								
L			X																			
M	X	X												X	X							
N	X		X			X	X	X	X		X		X		X		X	X		X		X
O				X		X	X	X	X				X	X			X	X				X
P							X										X					
pbG				X	X				X					X	X	X						
pbH				X	X				X					X	X							
pbJ						X																
pbK	X	X	X											X								
pbL			X																			
pbM	X	X												X	X							

left: losing right of way top: gaining right of way

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intergreens

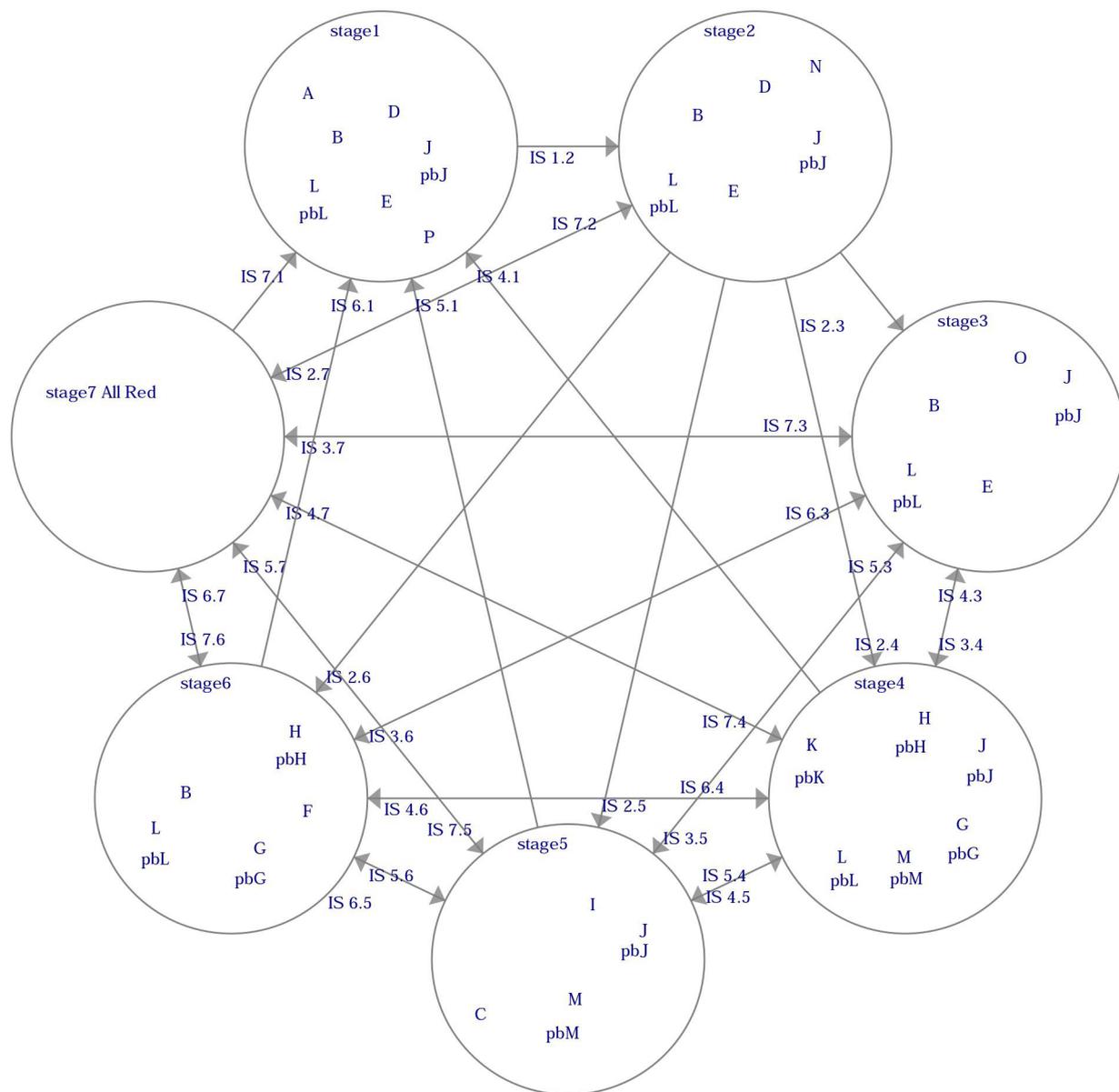
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	pbG	pbH	pbJ	pbK	pbL	pbM
A		X	5	X	X	X	X	X	X	X	5	X	9	3	X	X	X	X	X	5	X	9
B	X		6	X	X	X	X	X	X	X	8	X	9	X	X	X	X	X	X	8	X	9
C	5	5		X	X	X	X	X	X	X	7	6	X	3	X	X	X	X	X	7	6	X
D	X	X	X		X	6	8	8	5	X	X	X	X	X	5	X	8	8	X	X	X	X
E	X	X	X	X		5	5	9	6	X	X	X	X	X	X	X	5	9	X	X	X	X
F	X	X	X	6	5		X	X	6	5	X	X	X	3	5	X	X	X	5	X	X	X
G	X	X	X	12	14	X		X	12	X	X	X	X	3	14	14	X	X	X	X	X	X
H	X	X	X	6	6	X	X		6	X	X	X	X	3	6	X	X	X	X	X	X	X
I	X	X	X	6	6	7	8	8		X	X	X	X	3	6	X	8	8	X	X	X	X
J	X	X	X	X	X	7	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
K	13	11	11	X	X	X	X	X	X	X		X	X	3	X	X	X	X	X	X	X	X
L	X	X	7	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
M	6	7	X	X	X	X	X	X	X	X	X	X		3	8	X	X	X	X	X	X	X
N	2	X	2	X	X	2	2	2	2	X	2	X	2		2	X	2	2	X	2	X	2
O	X	X	X	5	X	5	5	8	5	X	X	X	5	3		X	5	8	X	X	X	5
P	X	X	X	X	X	X	2	X	X	X	X	X	X	X	X		2	X	X	X	X	X
pbG	X	X	X	12	14	X	X	X	12	X	X	X	X	3	14	14		X	X	X	X	X
pbH	X	X	X	6	6	X	X	X	6	X	X	X	X	3	6	X	X		X	X	X	X
pbJ	X	X	X	X	X	7	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
pbK	13	11	11	X	X	X	X	X	X	X	X	X	X	3	X	X	X	X	X		X	X
pbL	X	X	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X
pbM	6	7	X	X	X	X	X	X	X	X	X	X	X	3	8	X	X	X	X	X	X	

left: losing right of way top: gaining right of way

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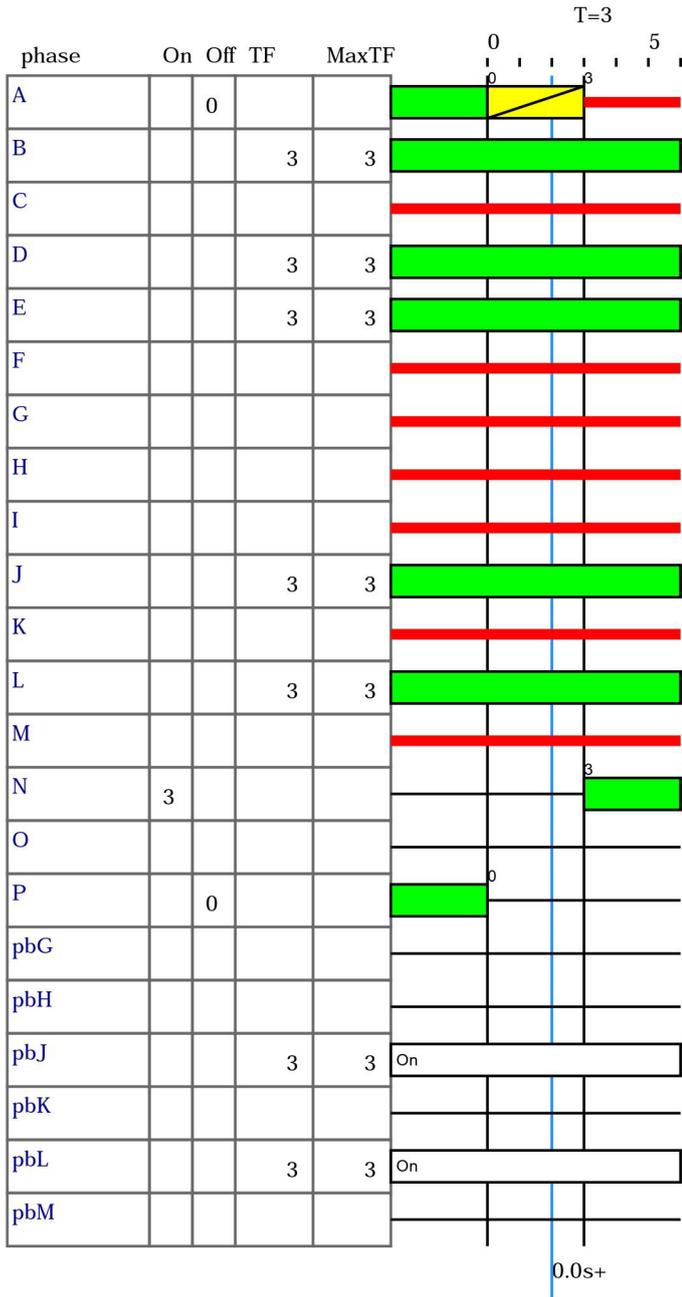
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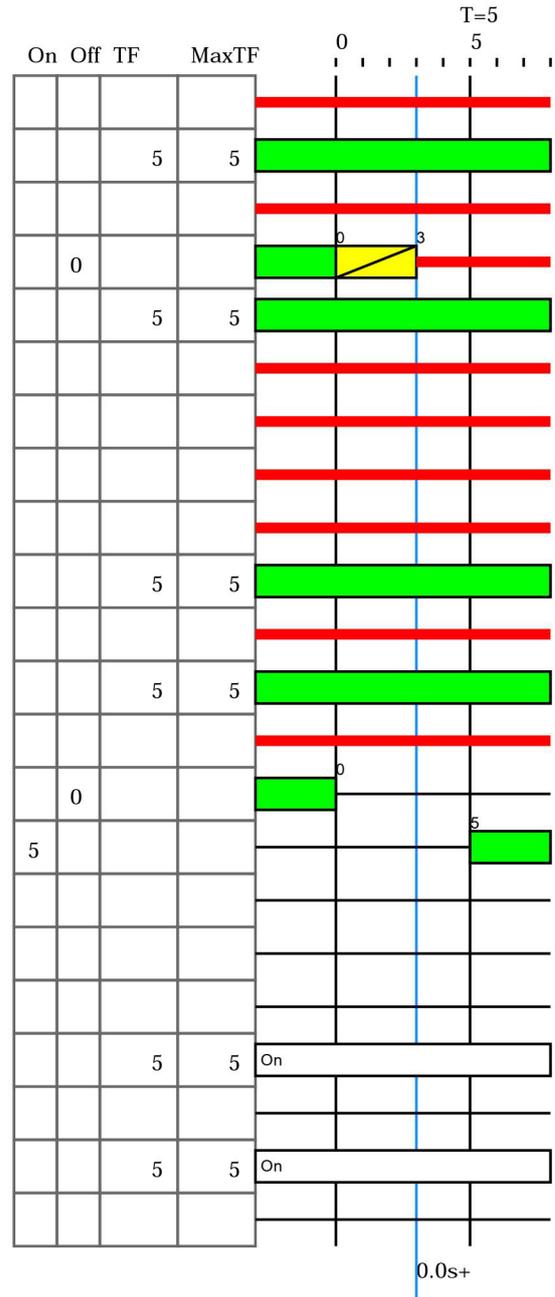
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IS 1.2



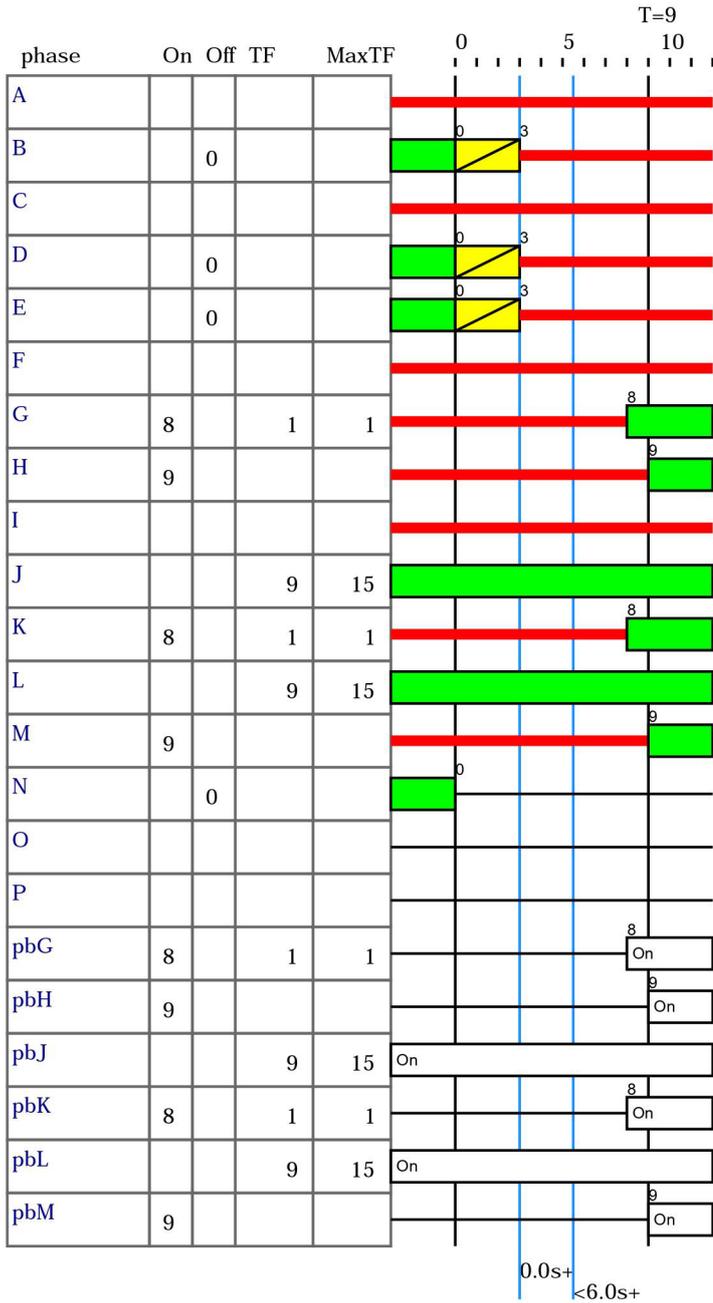
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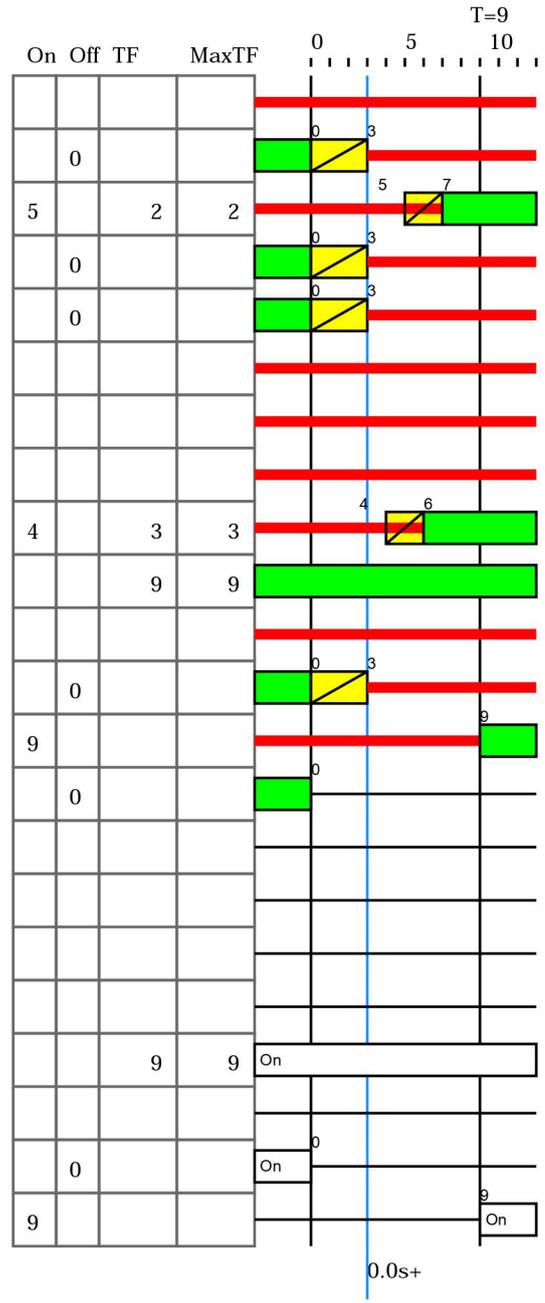
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IS 2.4



IS 2.5

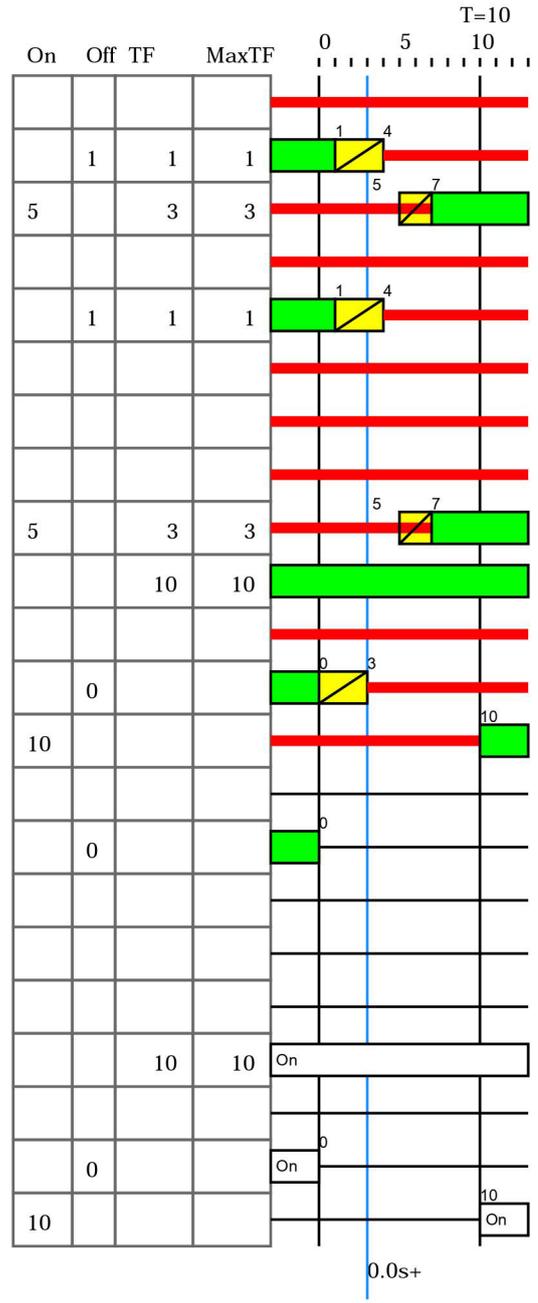
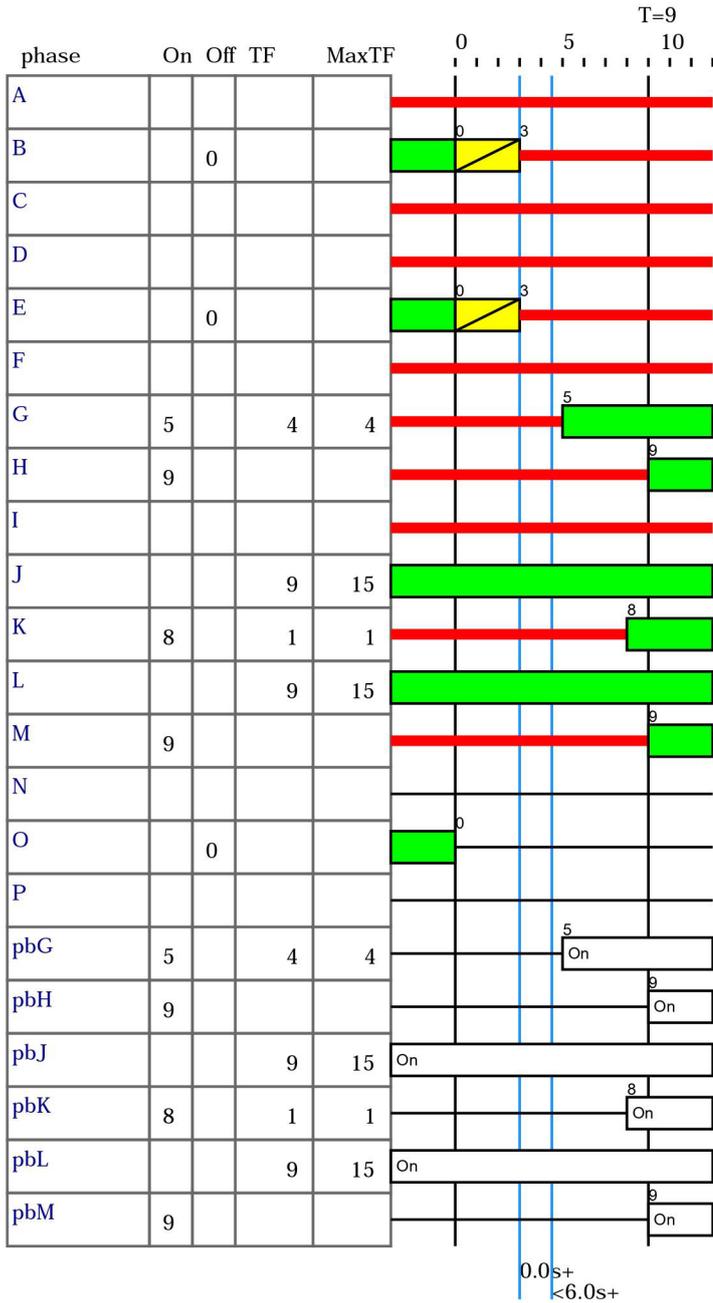


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IS 3.4

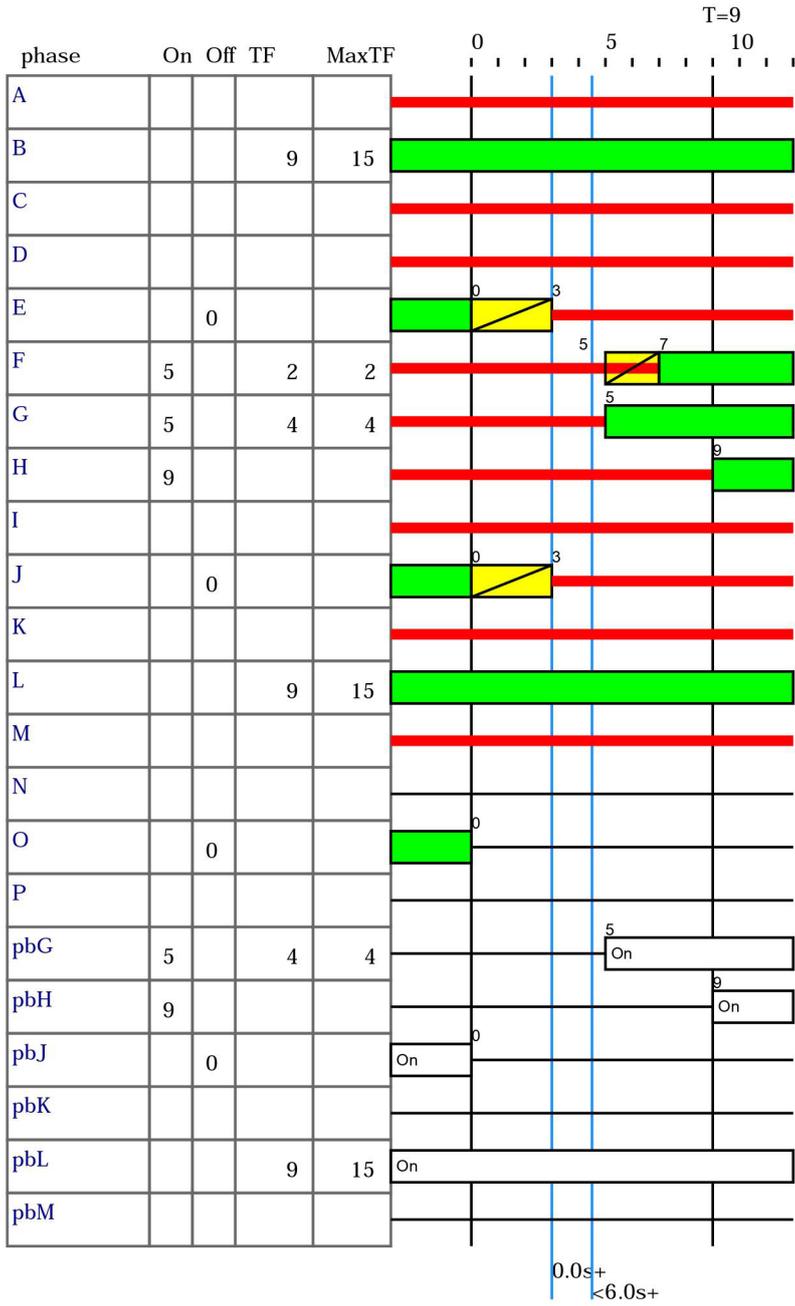
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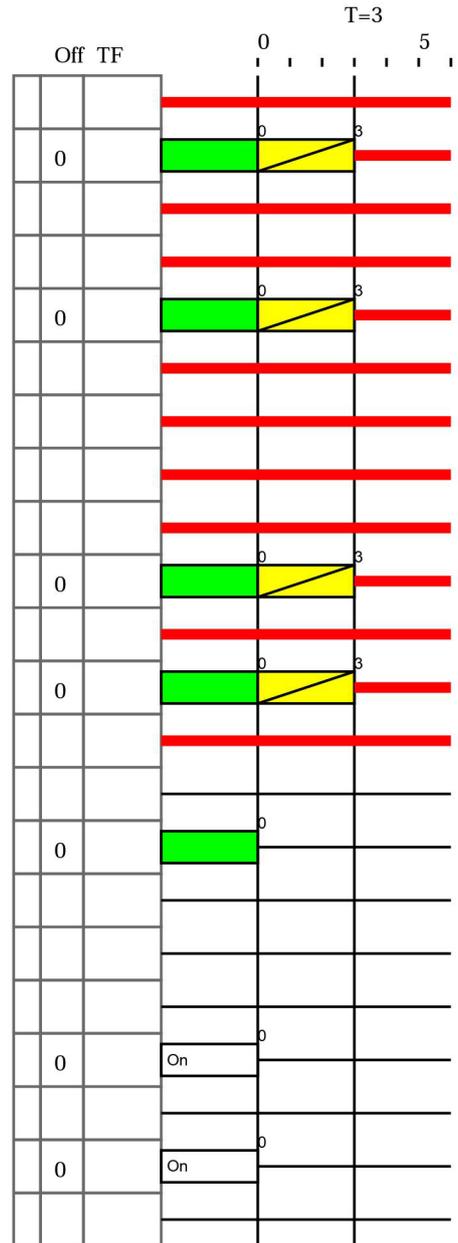
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IS 3.6



IS 3.7

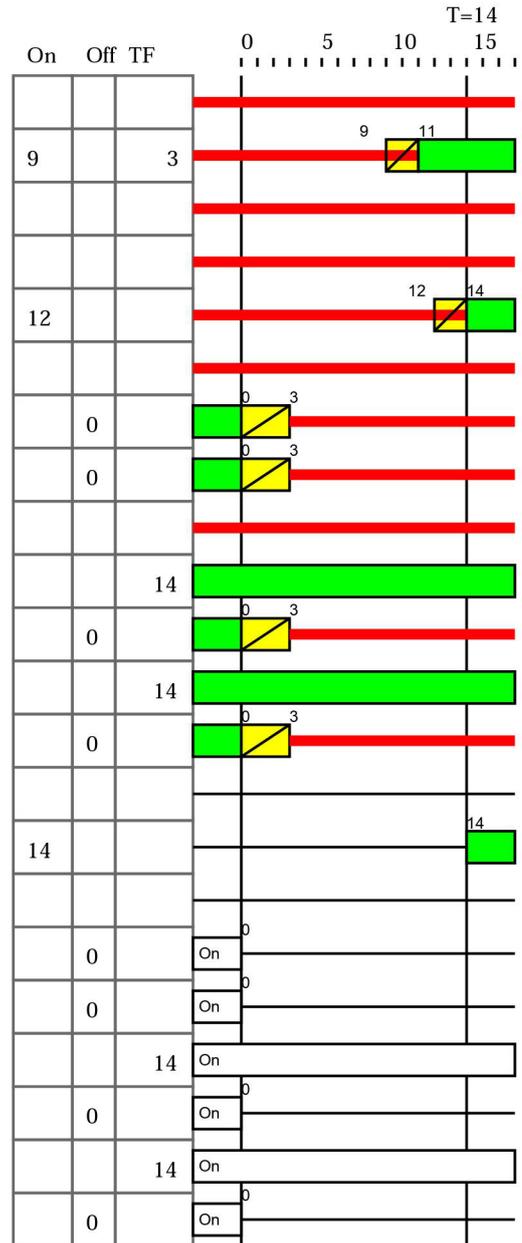
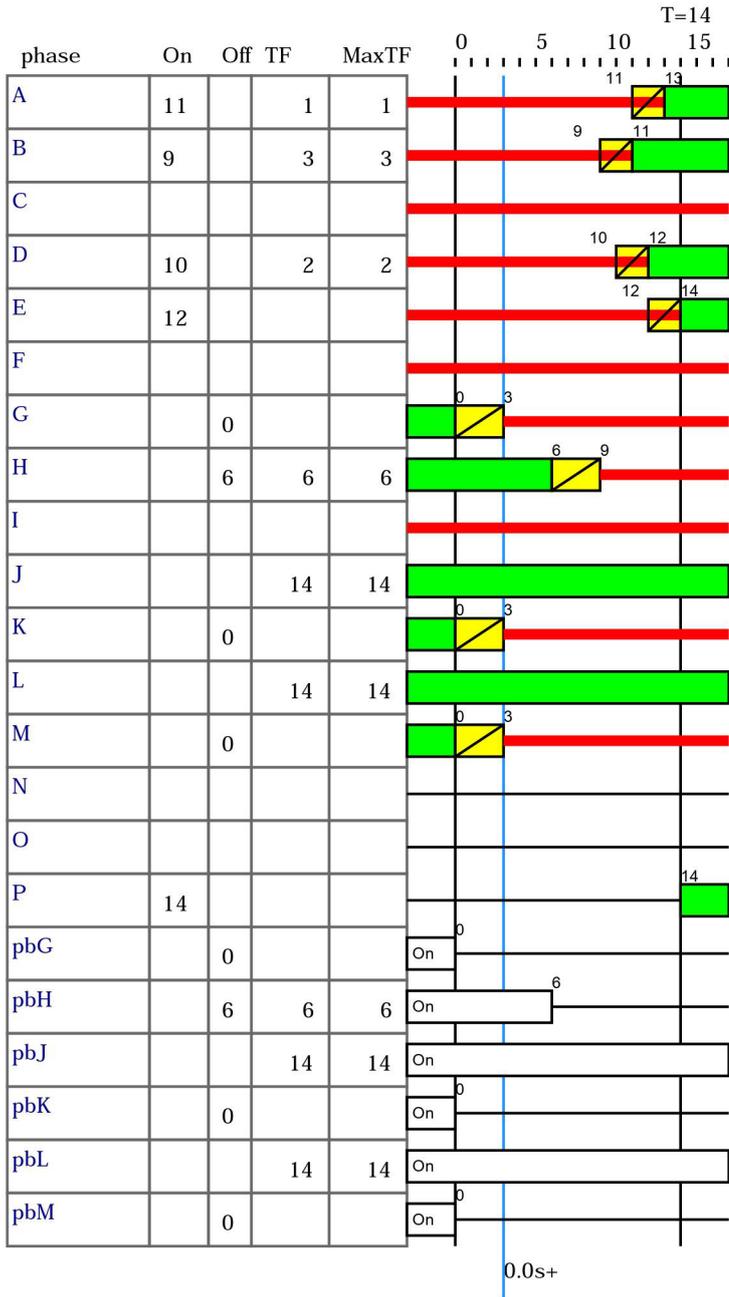


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IS 4.1

IS 4.3

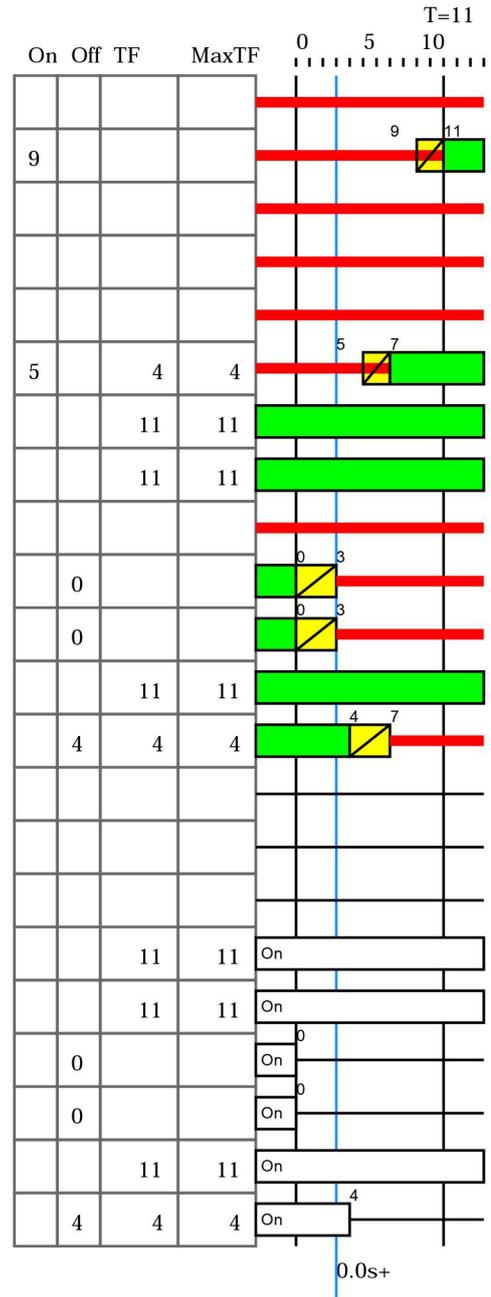
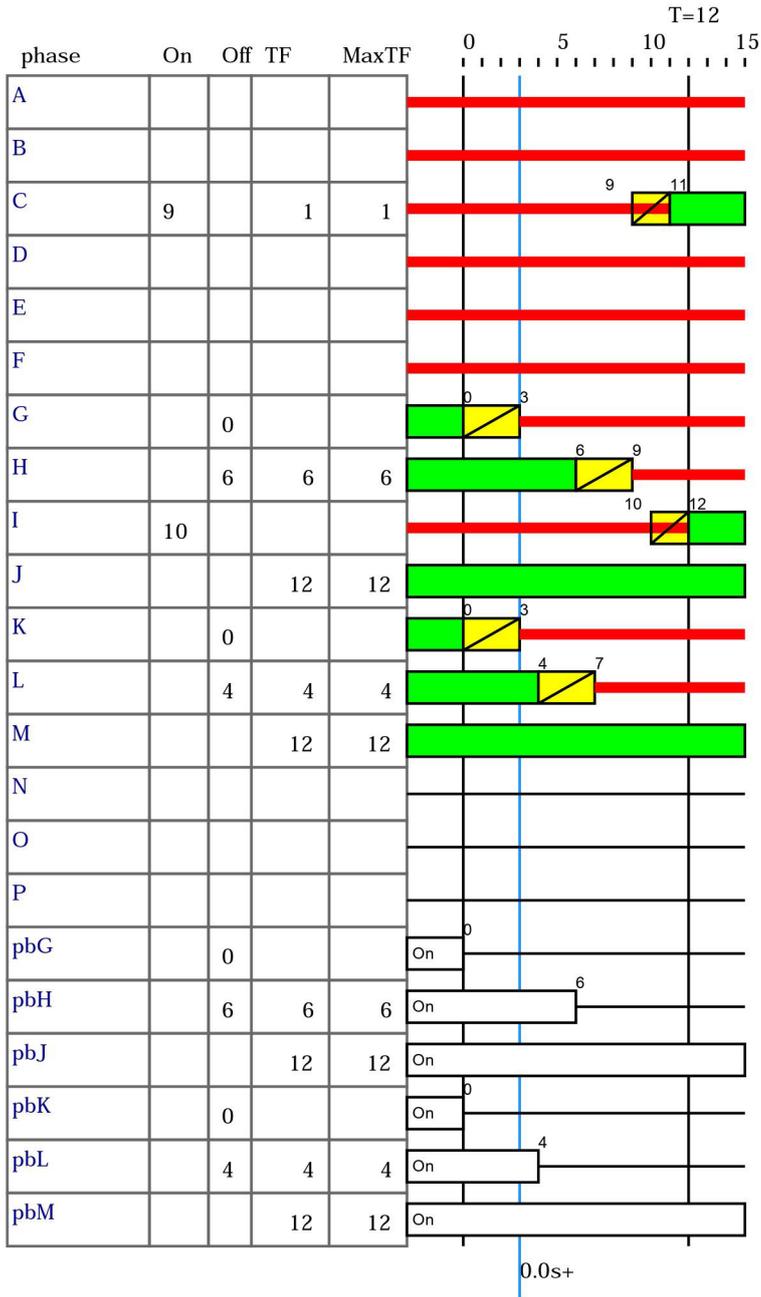


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IS 4.5

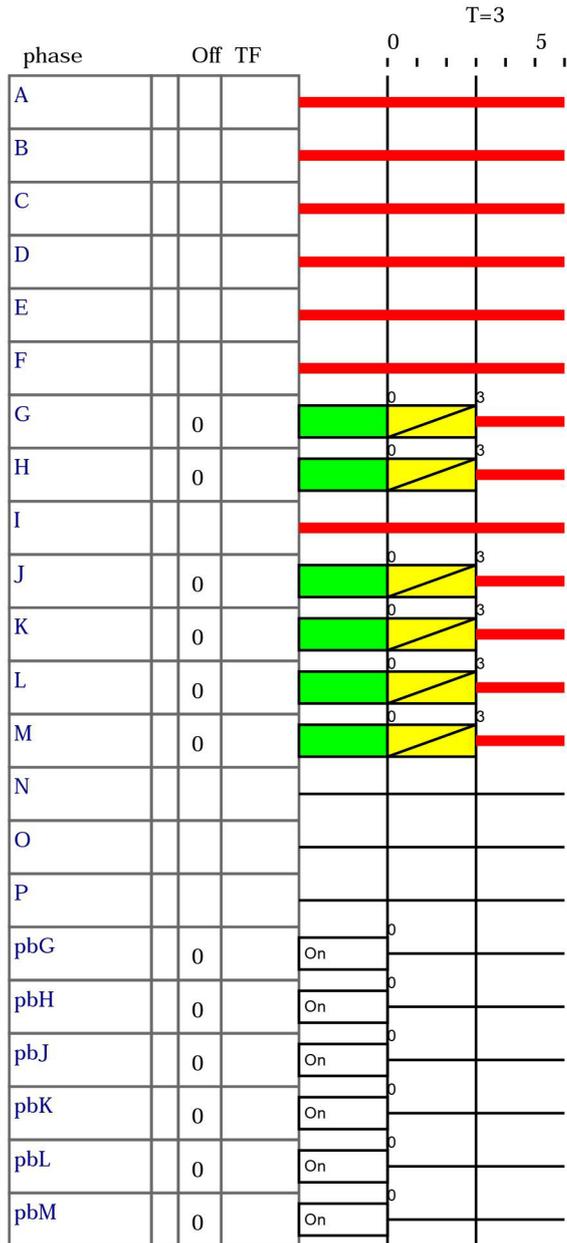
IS 4.6



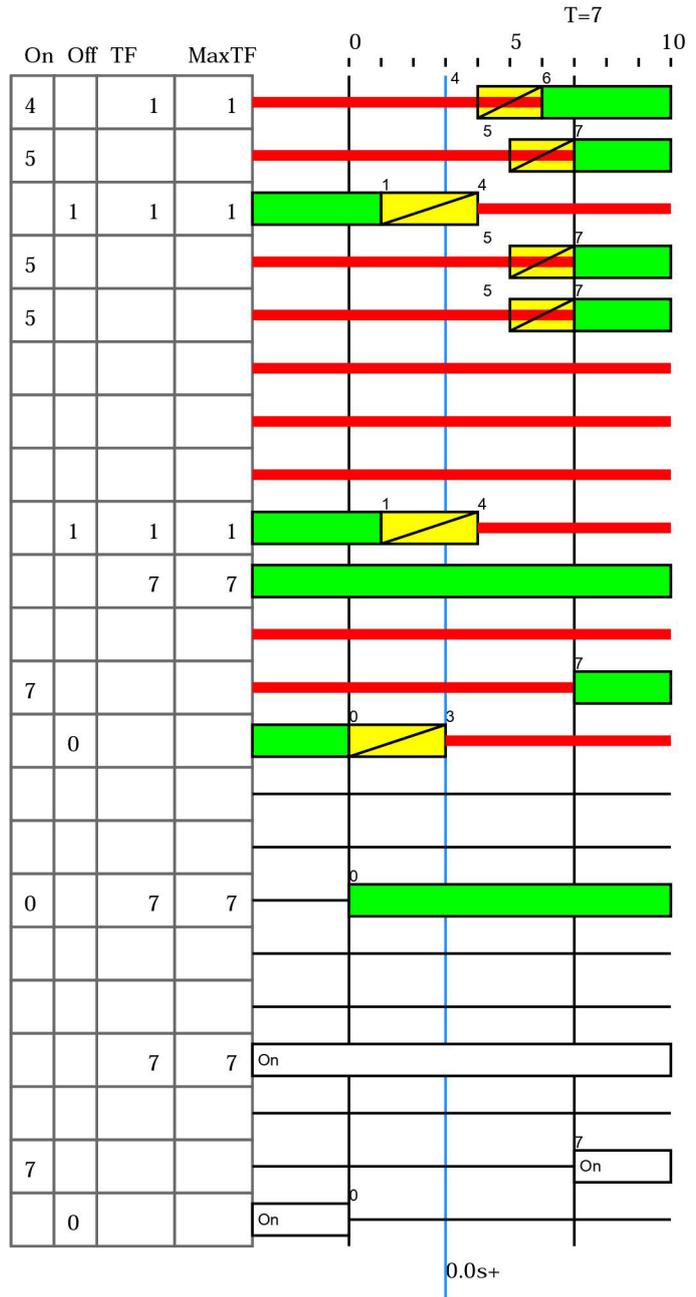
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IS 4.7



IS 5.1

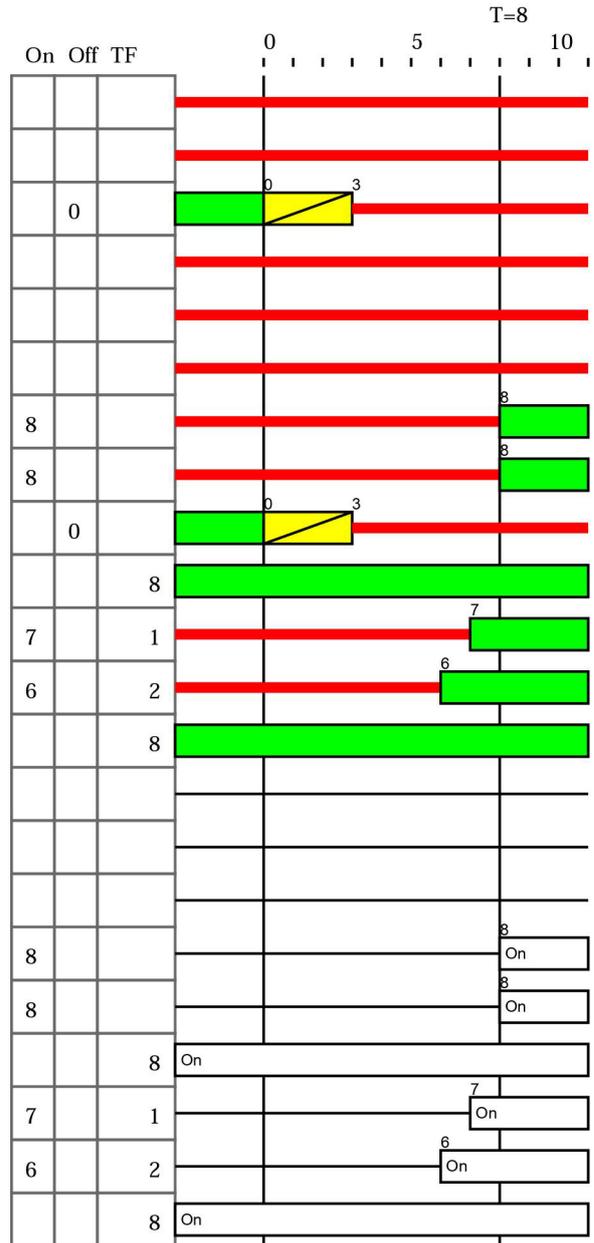
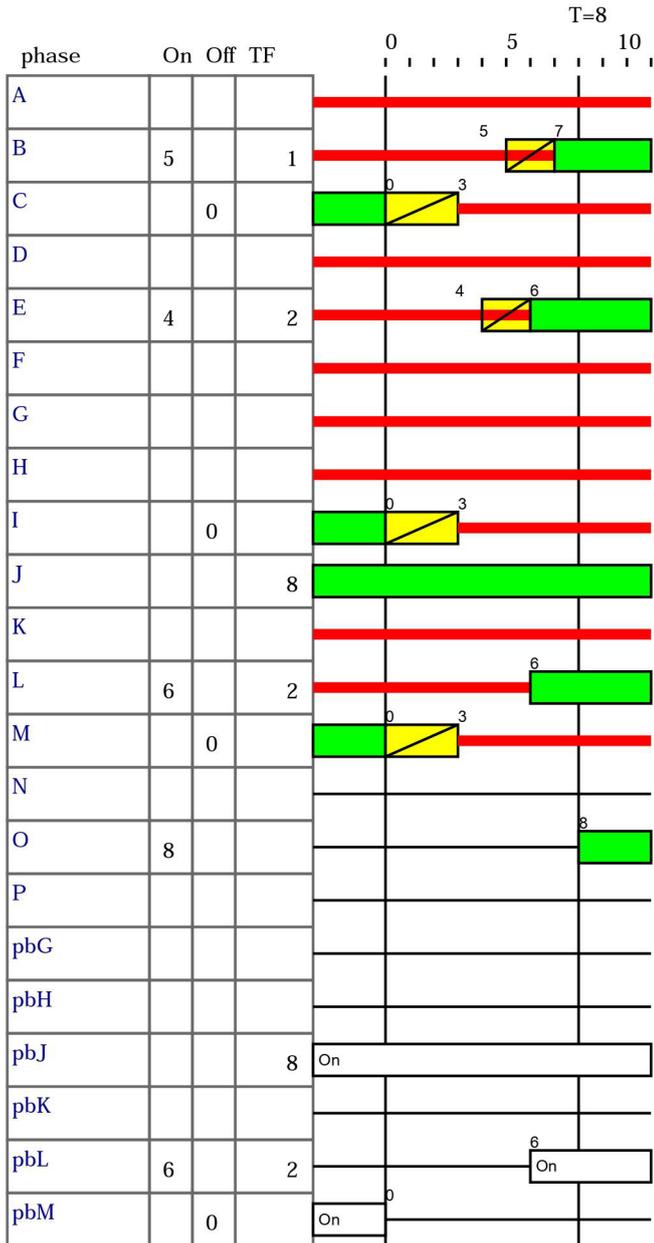


	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road
Proj.Nr.	
traffic system	Potternewton_Lane_HarrogateRd_V7
customer	

IS 5.3

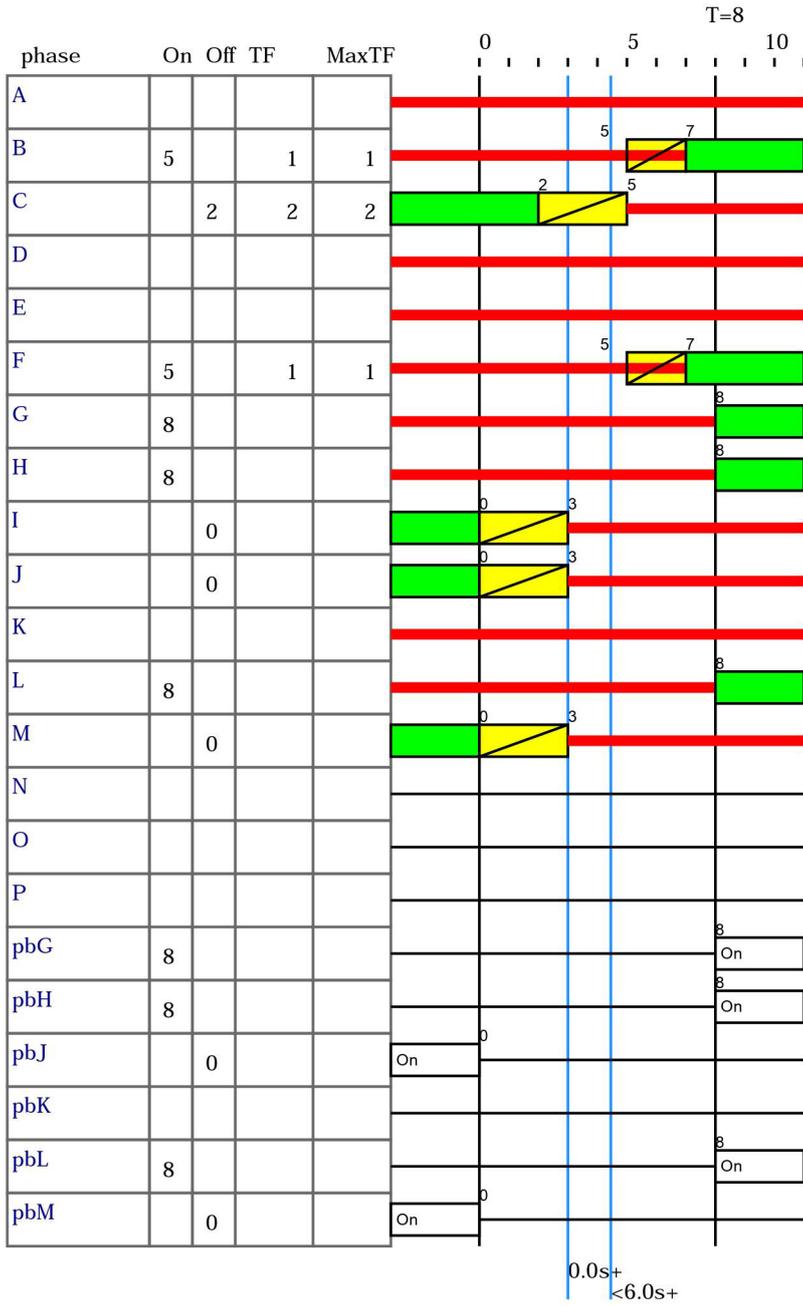
IS 5.4



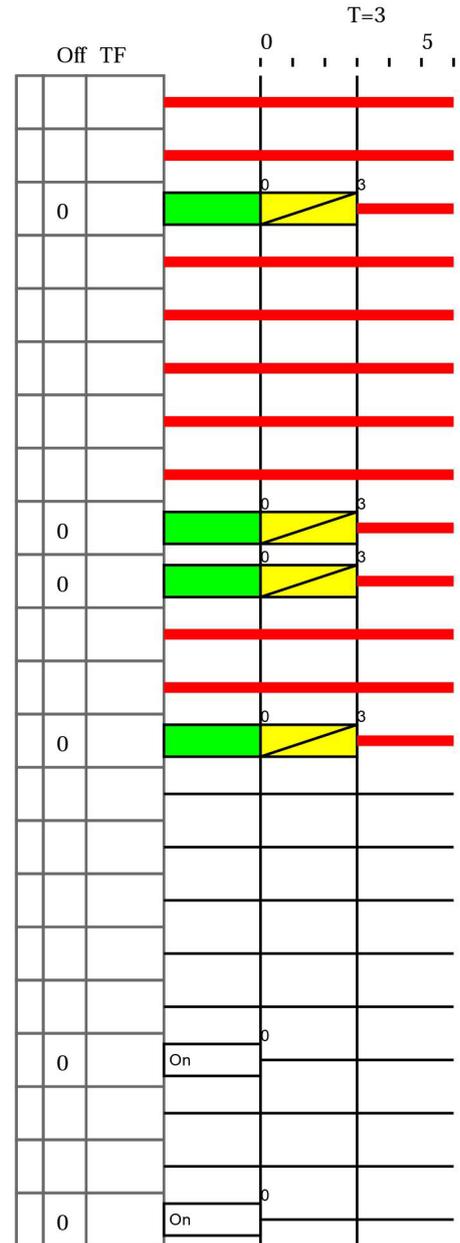
	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

IS 5.6



IS 5.7

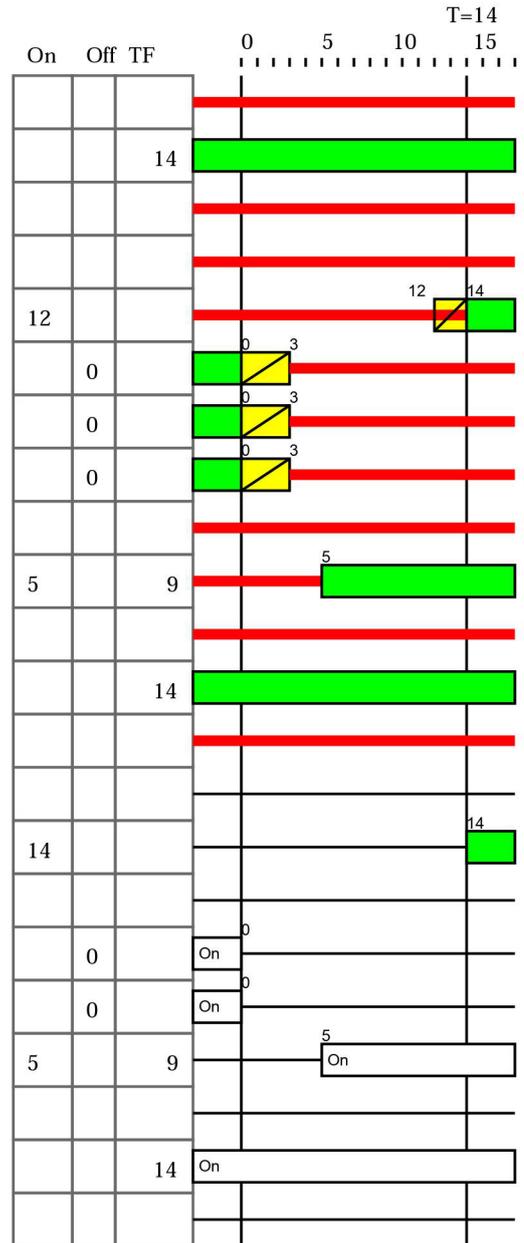
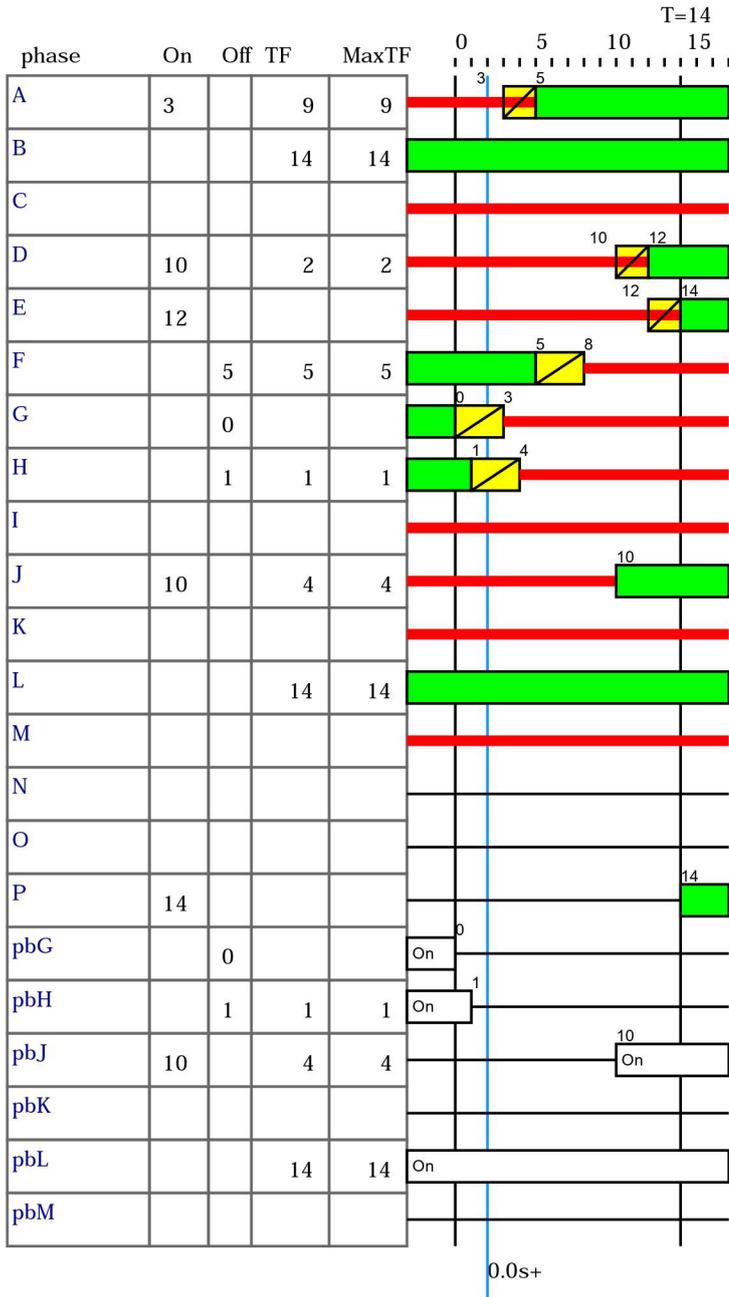


	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

IS 6.1

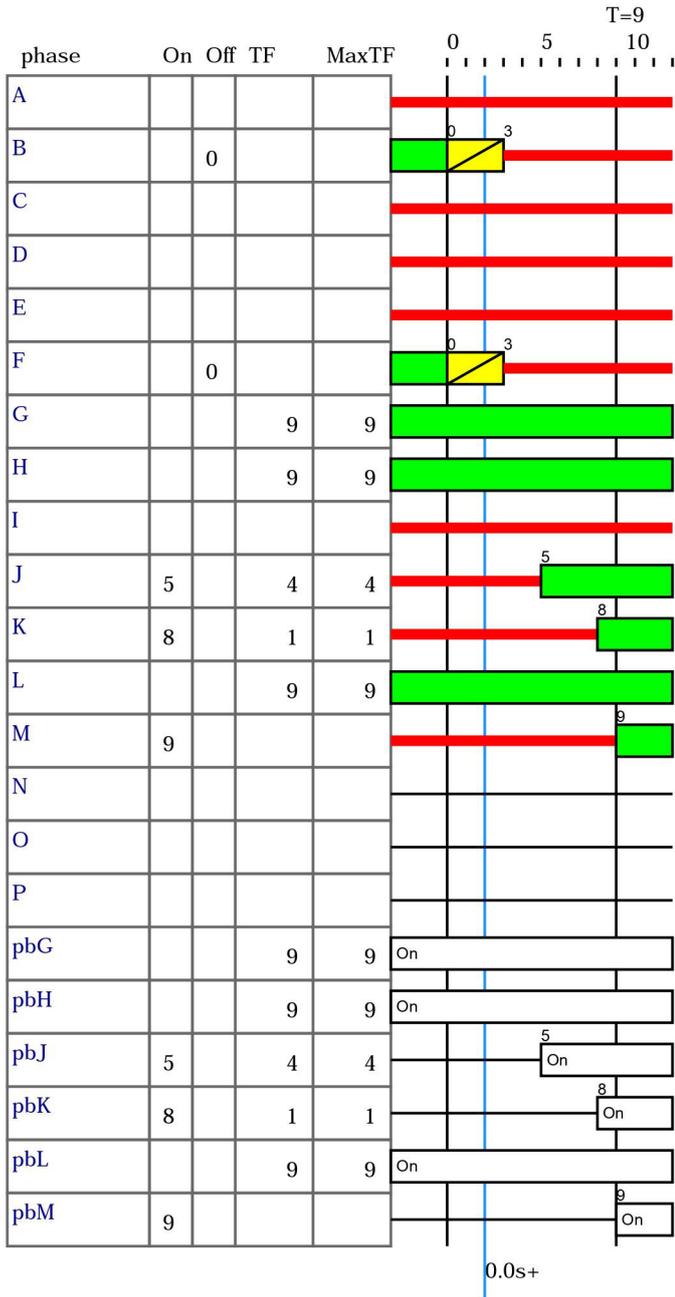
IS 6.3



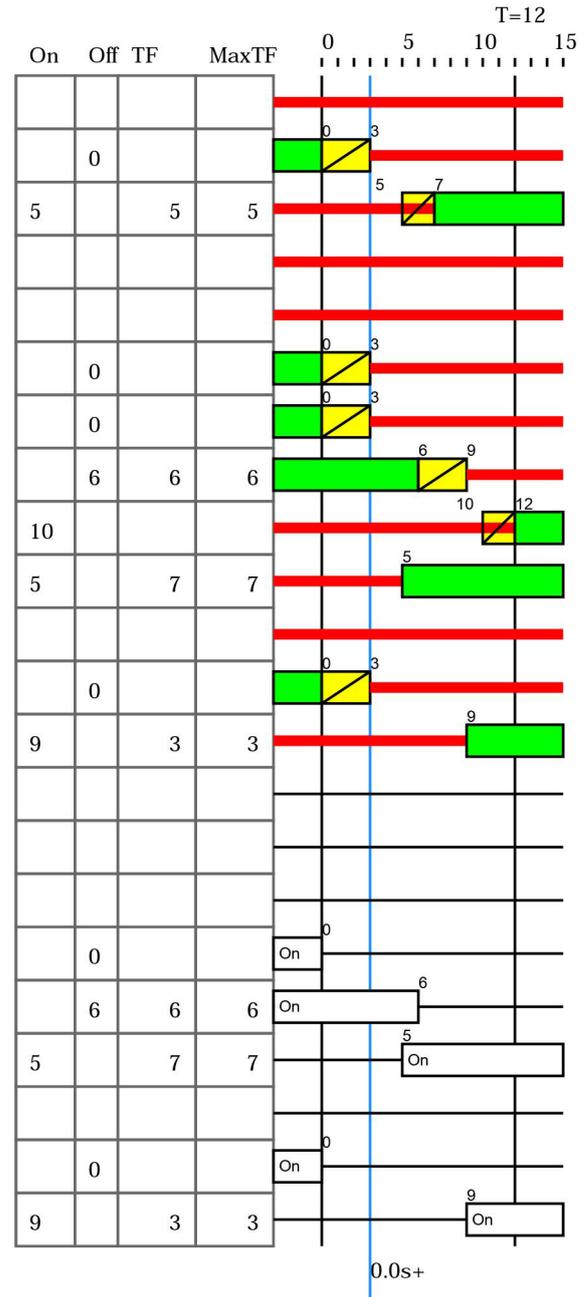
	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

IS 6.4



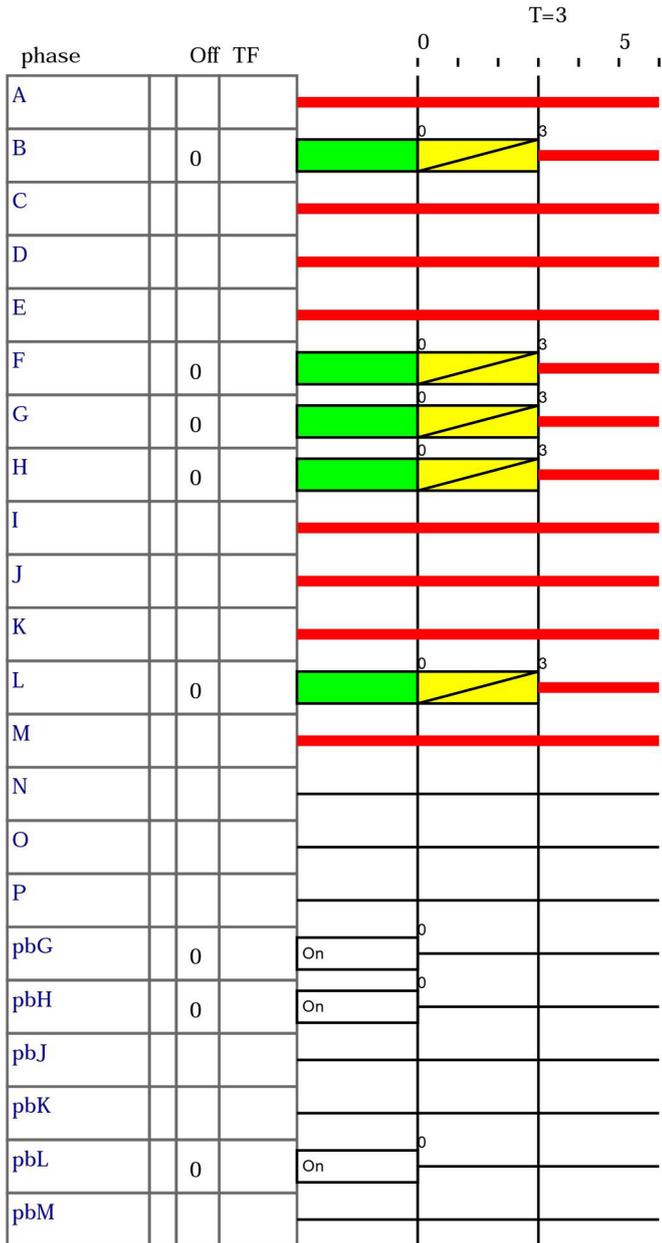
IS 6.5



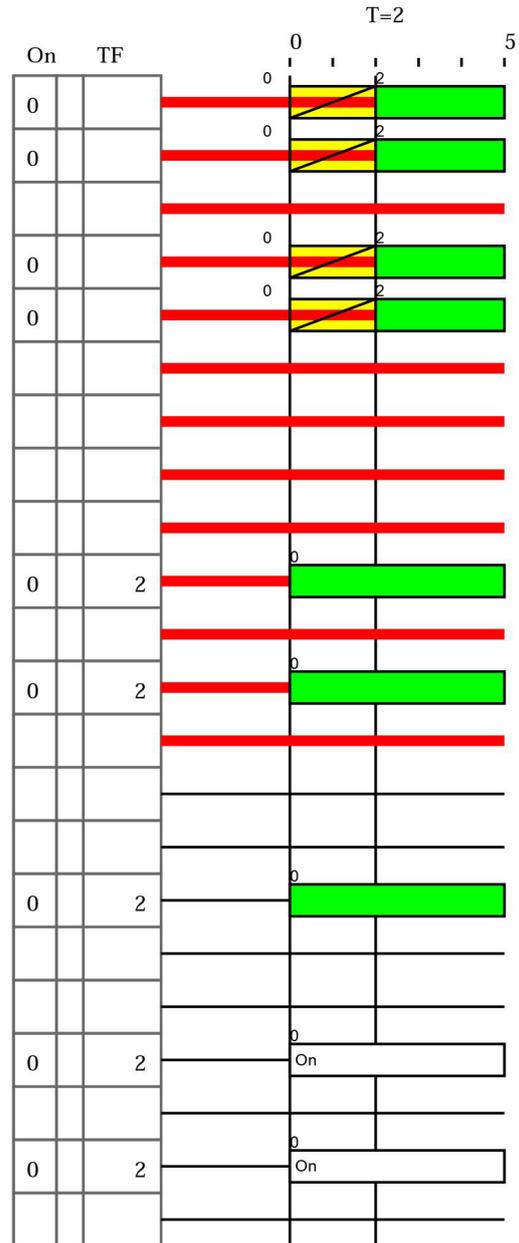
	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

IS 6.7



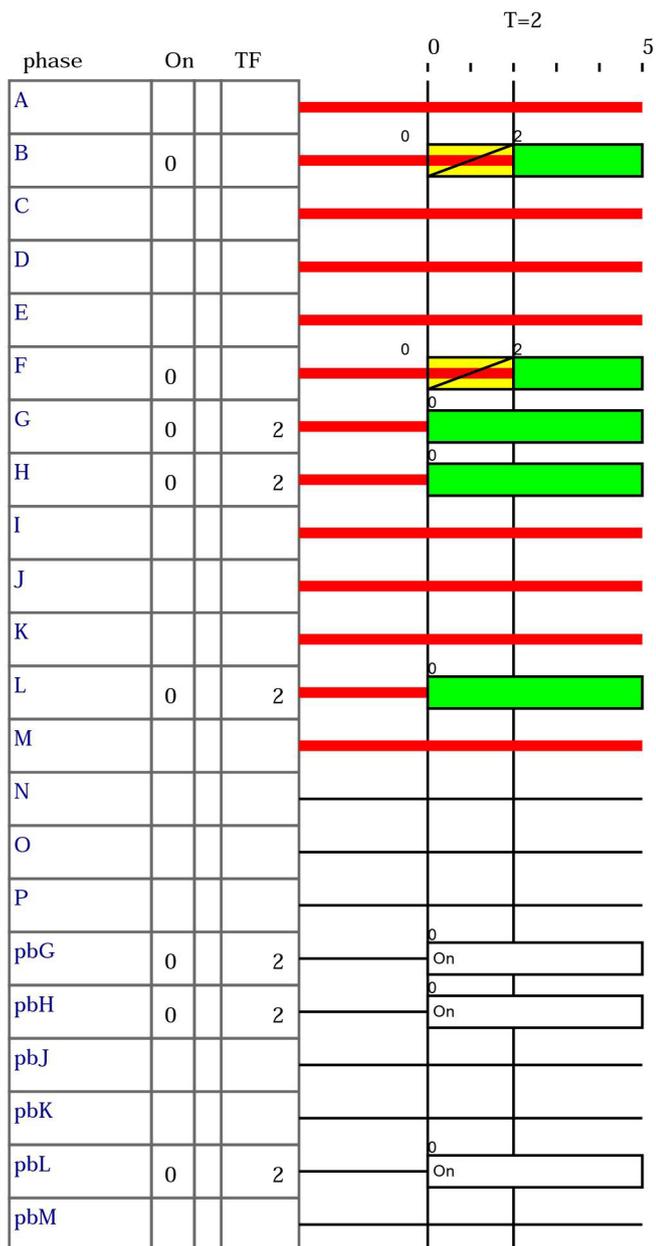
IS 7.1



	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

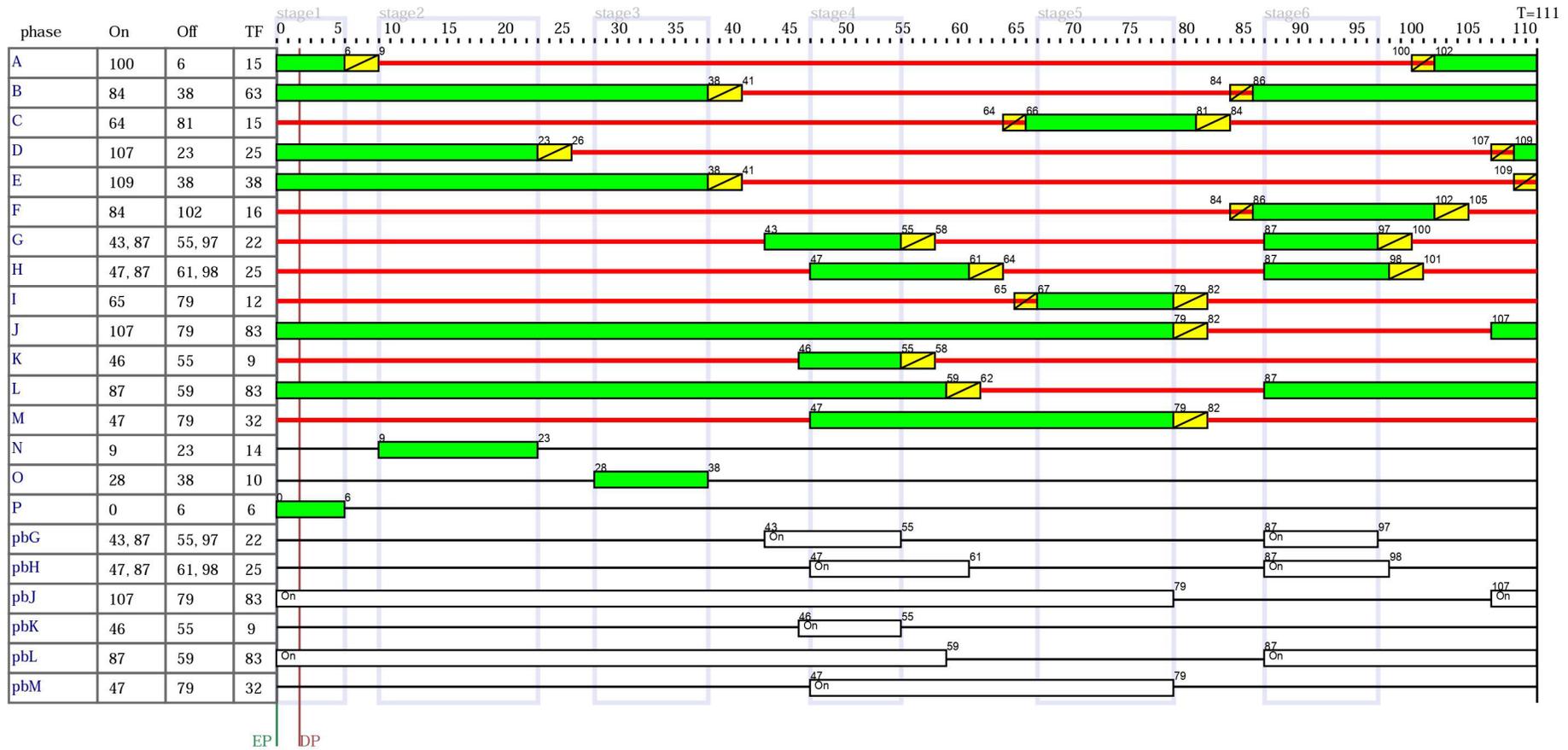
IS 7.6



	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

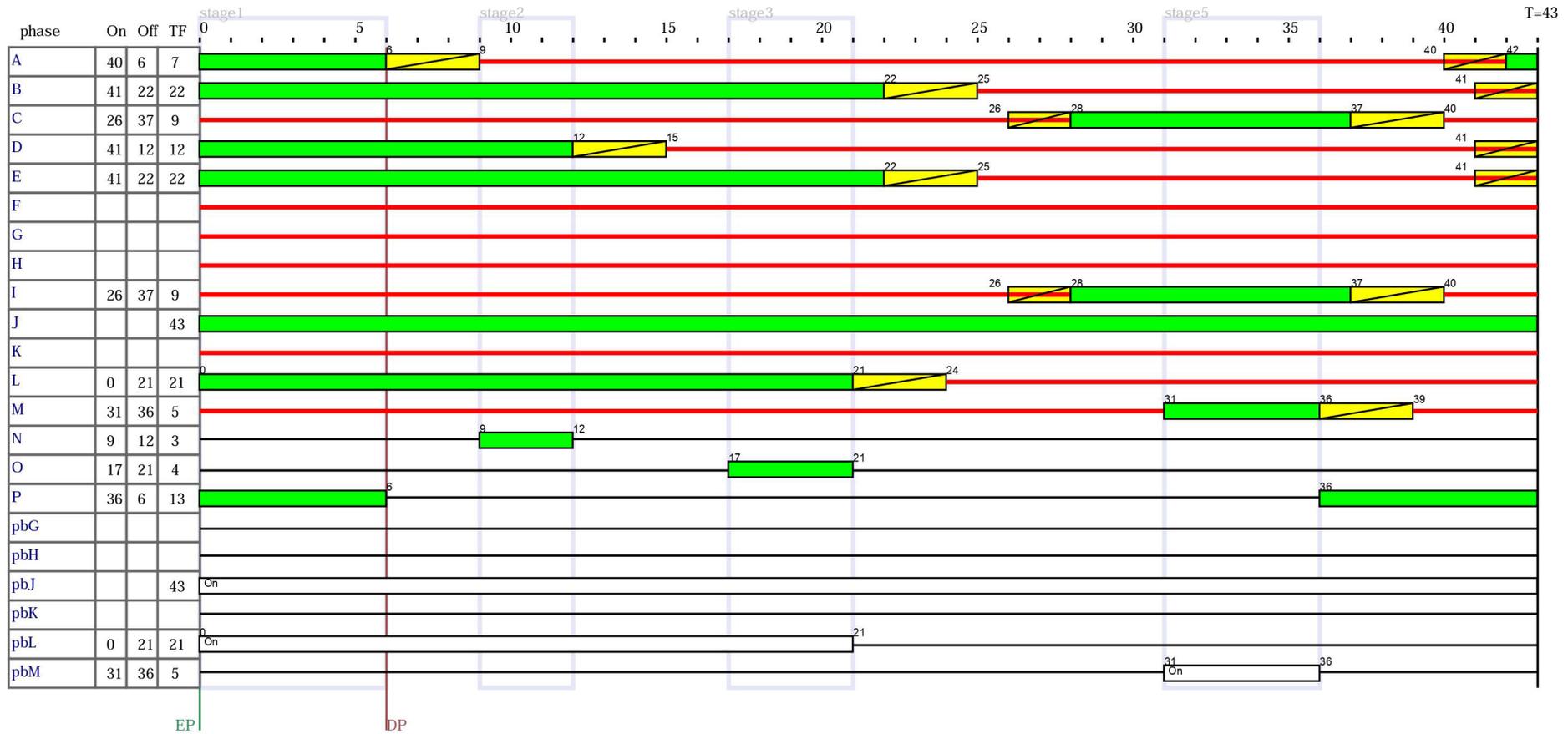
P1 view 01



	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road
Proj.Nr.	
traffic system	Potternewton_Lane_HarrogateRd_V7
customer	

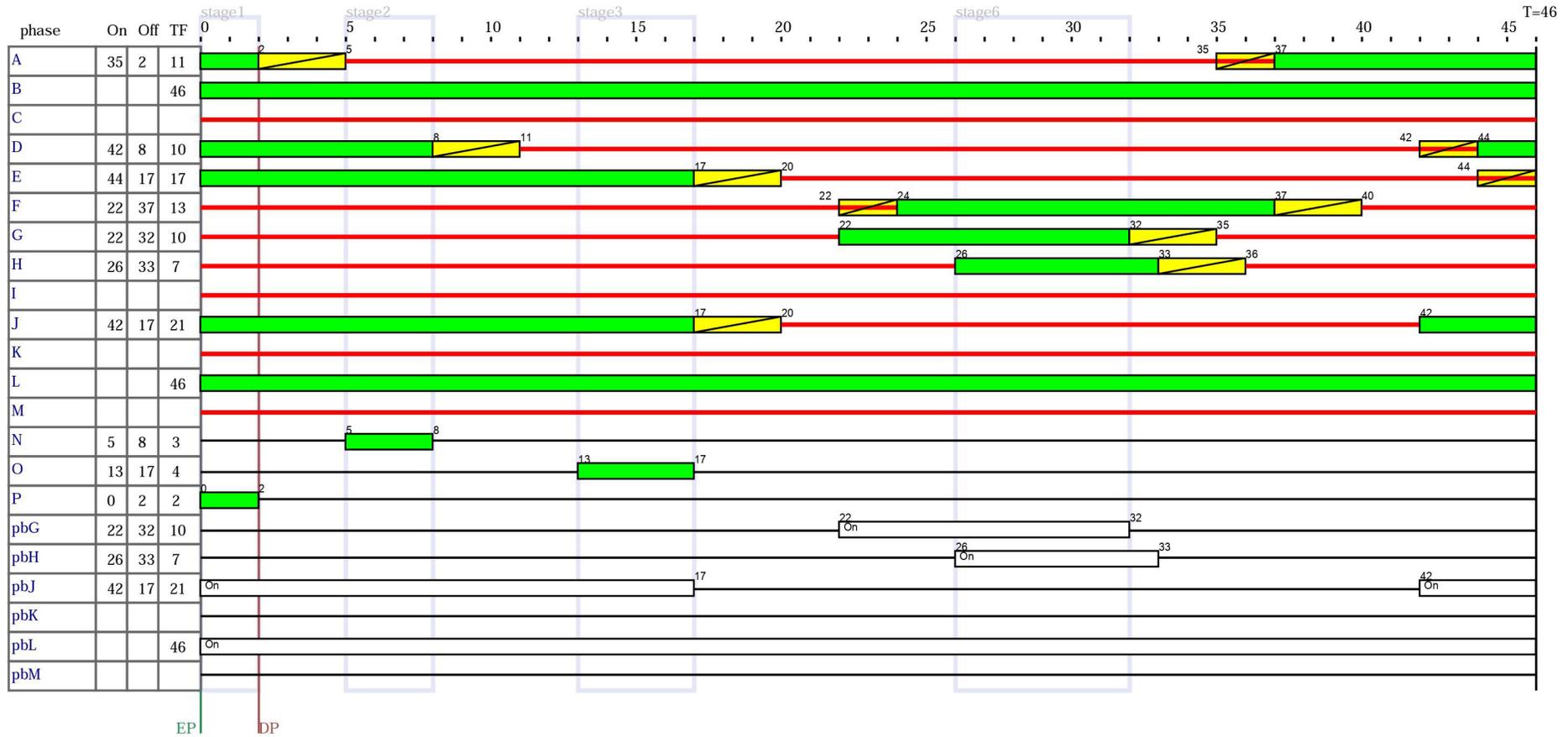
P1 view 03



	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road
Proj.Nr.	
traffic system	Potternewton_Lane_HarrogateRd_V7
customer	

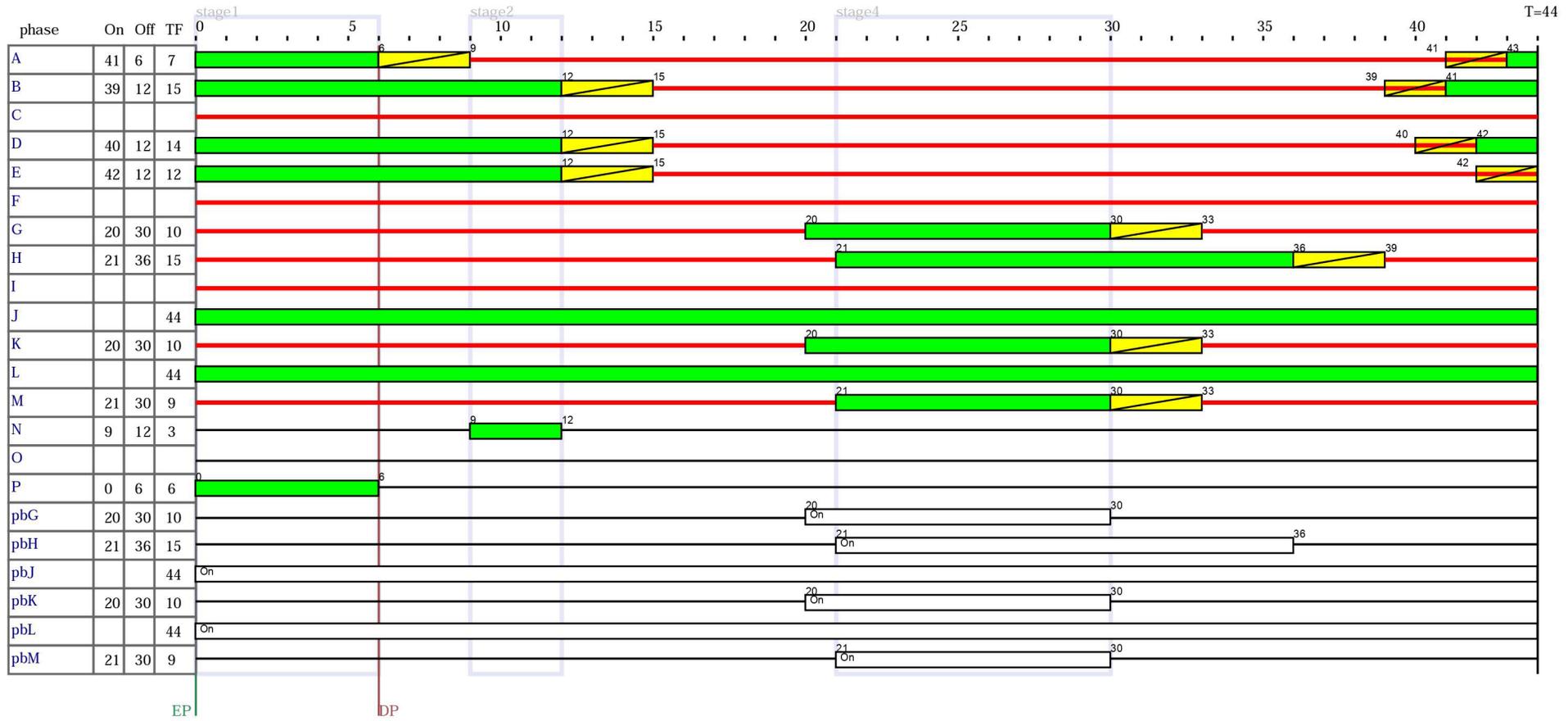
P1 view 05



	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road
Proj.Nr.	
traffic system	Potternewton_Lane_HarrogateRd_V7
customer	

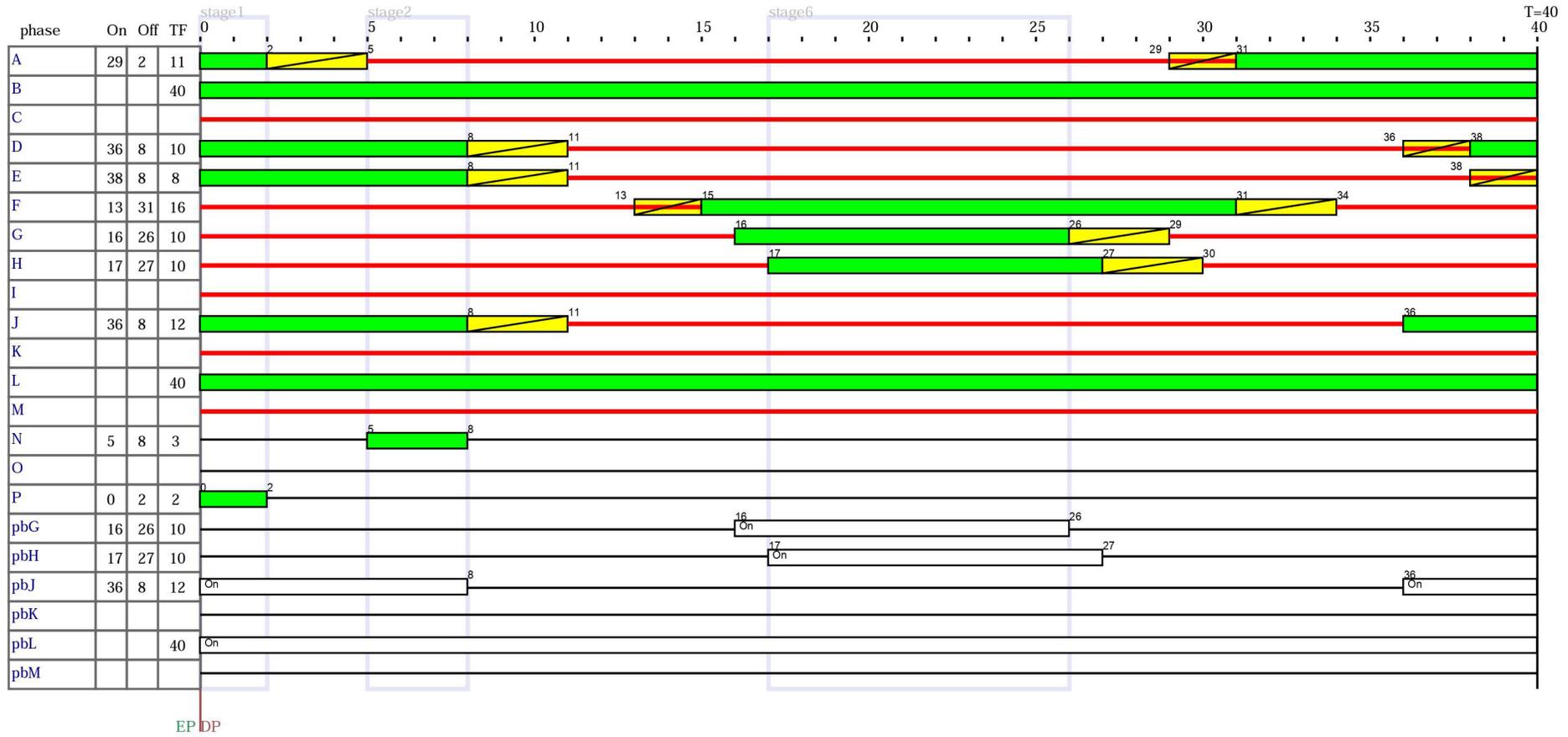
P1 view 02



	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

P1 view 04



	date	subsrption
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road
Proj.Nr.	
traffic system	Potternewton_Lane_HarrogateRd_V7
customer	

parameters

Nr	description	value
0	useUtc	3.0
1	utcTimeout	1.0
2	InvertGOuts	3.0
3	InvertMDOuts	3.0
4	IS12	0.0
5	IS23	0.0
6	IS24	0.0
7	IS25	0.0
8	IS26	0.0
9	IS34	0.0
10	IS35	0.0
11	IS36	0.0
12	IS41	0.0
13	IS45	0.0
14	IS46	0.0
15	IS51	0.0
16	IS56	0.0
17	IS61	0.0
18	IS64	0.0
19	IS65	0.0
20	CallO	3.0
21	CancelO	2.0
22	All Red Ext	6.0

	date	subsrption
developed		
inspected		
mandated		

site location		Leeds Potternewton Lane Harrogate Road
Proj.Nr.		
traffic system		Potternewton_Lane_HarrogateRd_V7
customer		

parameters

Nr	description	P1	P2	P3	P4
1	MaxA	25,0	30,0	30,0	20,0
2	MaxB	25,0	30,0	30,0	20,0
3	MaxC	12,0	12,0	12,0	12,0
4	MaxD	25,0	30,0	30,0	20,0
5	MaxE	25,0	30,0	30,0	20,0
6	MaxF	12,0	12,0	12,0	12,0
7	MaxI	12,0	12,0	12,0	12,0
8	MaxN	6,0	6,0	6,0	6,0
9	MaxO	10,0	10,0	10,0	10,0

	date	subsrption
developed		
inspected		
mandated		

site location		Leeds Potternewton Lane Harrogate Road
Proj.Nr.		
traffic system		Potternewton_Lane_HarrogateRd_V7
customer		

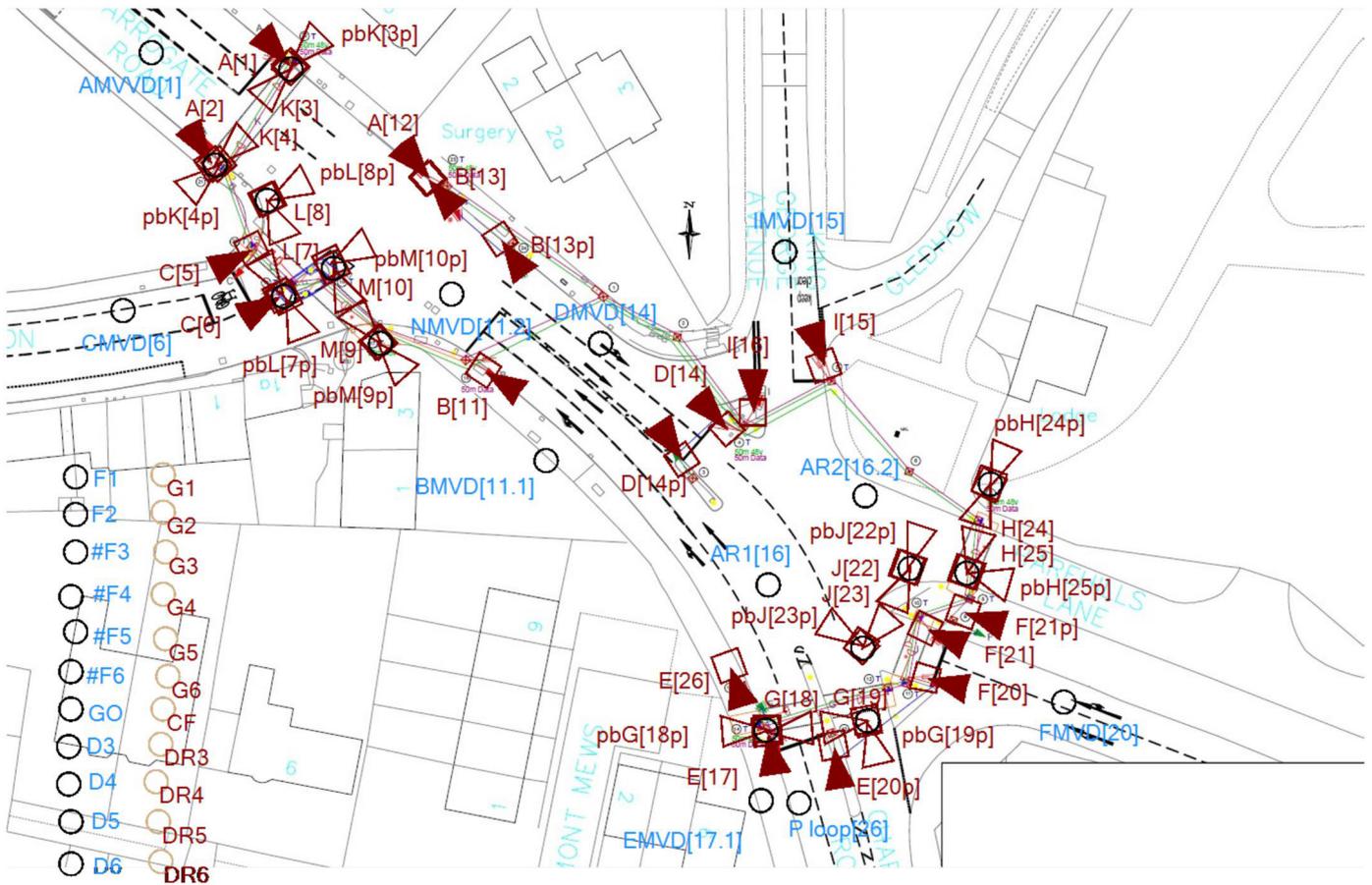
weekplan

Sunday	Monday - Thursday	Friday	Saturday
from Prog	from Prog	from Prog	from Prog
00:00 P4	00:00 P4	00:00 P4	00:00 P4
07:00 P1	07:00 P2	07:00 P2	07:00 P1
19:00 P4	10:00 P1	10:00 P1	19:00 P4
	15:45 P3	15:00 P3	
	19:00 P4	19:00 P4	

	date	subsription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		

signal positions view



	date	subscription
developed		
inspected		
mandated		

site location	Leeds Potternewton Lane Harrogate Road	
Proj.Nr.		
traffic system	Potternewton_Lane_HarrogateRd_V7	
customer		