THIS SHEET IS FOR INFORMATION ONLY

DOUBLE INTERSECTION WITH OVERLAPS:
(NO LAG GREEN TIMES)

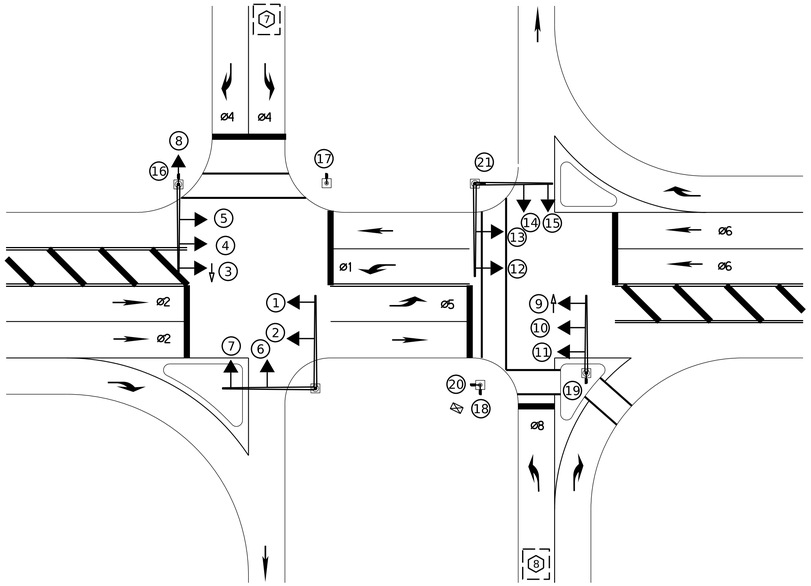
SIX PHASE OPERATION
(6 VEHICLE PHASES)

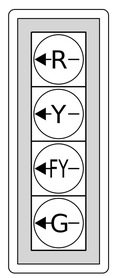
LEFT TURN PHASES

MAINLINE:
(2) PROTECTED/PERMISSIVE: 4-SECTION (FYA)
SIDE STREET:
(2) PERMISSIVE: 3-SECTION

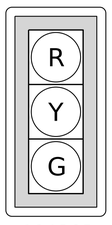
RIGHT TURN PHASES

MAINLINE:
(2) PERMISSIVE: YIELD
SIDE STREET:
(1) PERMISSIVE: 3-SECTION
(1) PERMISSIVE: YIELD





3,9



1,2,4,5,6,7
8,10,11,12
13,14,15

16,17,18,19
20,21

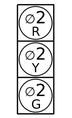
QUEUE PREEMPTION

TYPE	QUEUE	QUEUE
DETECTOR #	7	8
DELAY	20	20
DWELL PHASES ∅	4	8
DWELL OVERLAPS	C,D	A,F
PREEMPT MIN	35	35
PREEMPT MAX	35	35
EXIT PHASE ∅	2,6	2,6

BARRIER BARRIER BARRIER BARRIER

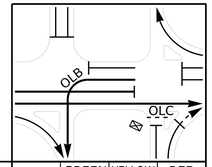
RING A

PHASE: 2 — ACTIVE OVERLAP: B,C



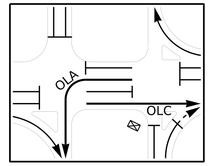
1,2

18,19

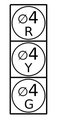


SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
1,2	∅2	-	G	Y	R
26,27	∅2P	-	W/FD DW	DW	DW

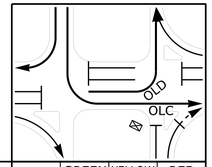
PHASE: 1 — ACTIVE OVERLAP: A,C



PHASE: 4 — ACTIVE OVERLAP: C,D

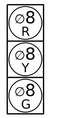


6,7,8



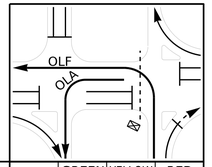
SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
6,7,8	∅4	-	G	Y	R

PHASE: 8 — ACTIVE OVERLAP: A,F



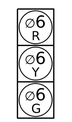
14,15

20,21



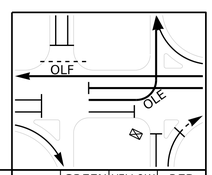
SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
14,15	∅8	-	G	Y	R
20,21	∅2P	-	W/FD DW	DW	DW

PHASE: 6 — ACTIVE OVERLAP: E,F



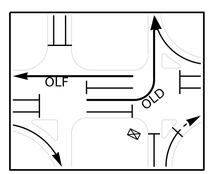
12,13

16,17



SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
12,13	∅6	-	G	Y	R
16,17	∅6P	-	W/FD DW	DW	DW

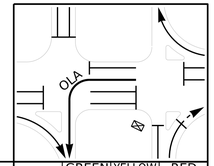
PHASE: 5 — ACTIVE OVERLAP: D,F



OVERLAPS

OVERLAP: A — NORMAL — INCLUDED PHASES: 1,8

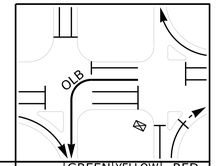
3



SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
3	OLA		←G−	←Y−	←R−

OVERLAP: B — FYA — FYA PERMISSIVE ∅: 2 — FYA PROTECTED ∅: A

3

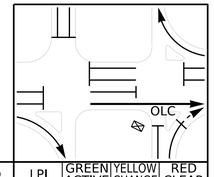


SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
3	OLB		←FY−	←Y− *	←R− *

* ←FY− IF OLA FOLLOWS

OVERLAP: C — NORMAL — INCLUDED PHASES: 1,2,4

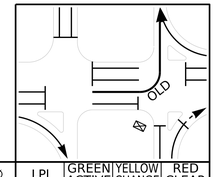
10,11



SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
10,11	OLC		G	Y	R

OVERLAP: D — FYA — INCLUDED PHASES: 4,5

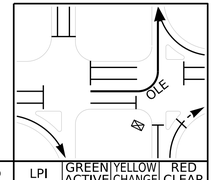
9



SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
9	OLD		←G−	←Y−	←R−

OVERLAP: E — FYA — FYA PERMISSIVE ∅: 6 — FYA PROTECTED ∅: D

9

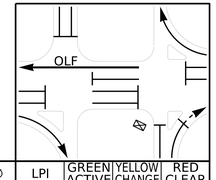


SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
9	OLE		←FY−	←Y− *	←R− *

* ←FY− IF OLD FOLLOWS

OVERLAP: F — NORMAL — INCLUDED PHASES: 5,6,8

4,5



SIGNALS	∅	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
4,5	OLF		G	Y	R

PHASE TIMING

PHASES	1	2	3	4	5	6	7	8
MIN GREEN	5	12		5	5	12		5
ADVANCE WALK								
WALK		7				7		7
DON'T WALK		16				12		20
VEH EXT	2	2		2	2	2		2
MAX 1	30	60		30	30	60		30
MAX 2	30	60		30	30	60		30
YELLOW	4	4		3	4	4		3
RED	3	3		3	3	3		3
MIN RECALL								
MAX RECALL								
SOFT RECALL		X				X		
PED RECALL								
REST IN WALK								
DUAL ENTRY								
MEMORY	NL	L		NL	NL	L		NL

PREEMPTION

TYPE	EVP	EVP	EVP	EVP
CONFIRMATION SIGNAL	A	B	C	D
DWELL PHASES Ø	6	2	4	8
DWELL OVERLAPS	A,F	C,D	C,D	A,F
PREEMPT MIN	10	10	10	10
PREEMPT MAX	60	60	60	60
EXIT PHASE Ø	1,6	2,5	4	8

OVERLAPS

OVERLAPS	A	B	C	D	E	F
SIGNALS	3	3	10,11	9	9	4,5
INDICATIONS	←R− ←Y− ←G−	←FY−	R Y G	←R− ←Y− ←G−	←FY−	R Y G
TYPE	NORMAL	FYA	NORMAL	NORMAL	FYA	NORMAL
INCLUDED PHASES ∅	1,8		1,2,4	4,5		5,6,8
FYA PROTECTED ∅		A			D	
FYA PERMISSIVE ∅		2			6	
FYA START DELAY		2			2	
LAG GREEN	0	0	0	0	0	0
YELLOW	-	-	-	-	-	-
RED	-	-	-	-	-	-

PLOTTED: 15-DEC-2025 10:28
FILE NAME: C:\Users\dafedio\OneDrive - Commonwealth of Pennsylvania\Dan\Signal Construction Projects\Helper Files\MST Phasing Examples (2025-10-24).dgn