

PROTECTED / PERMISSIVE

(4-SECTION FYA)
(BLANKOUT SIGN)
(RED SIGNAL AHEAD SIGN)

EIGHT PHASE OPERATION

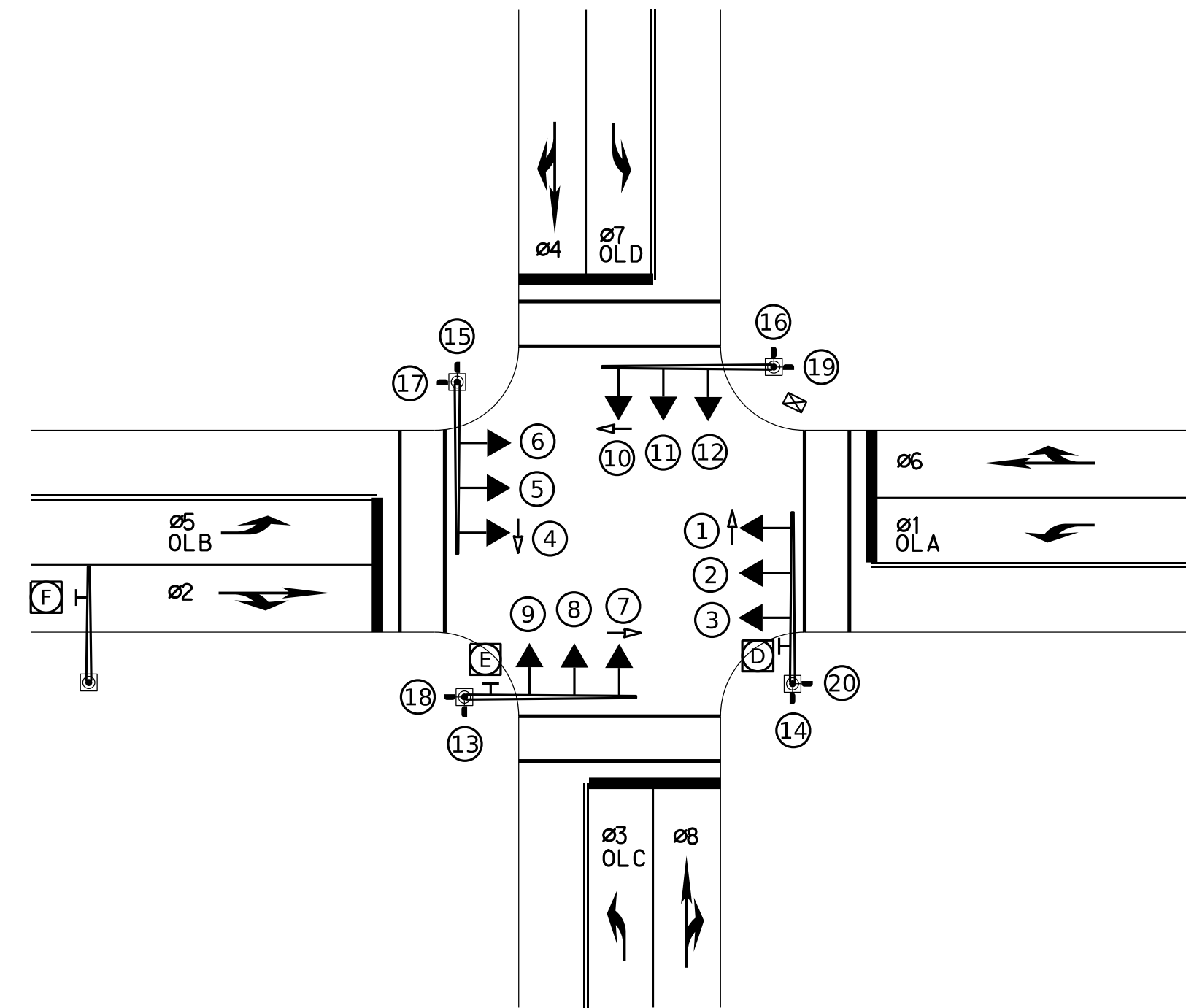
(8 VEHICLE PHASES)

LEFT TURN PHASES

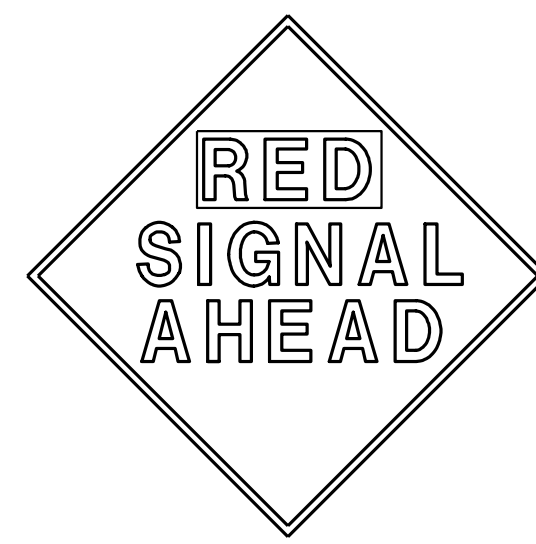
MAINLINE:
(2) PROTECTED/PERMISSIVE: 4-SECTION (FYA)
SIDE STREET:
(2) PROTECTED/PERMISSIVE: 4-SECTION (FYA)

RIGHT TURN PHASES

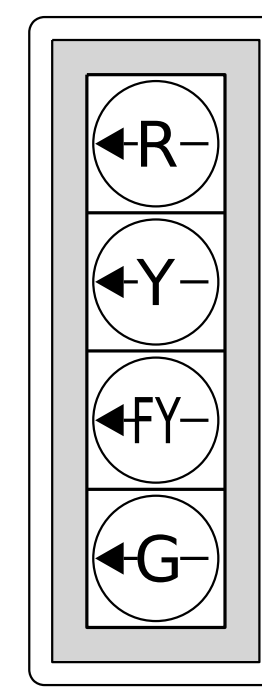
MAINLINE:
(2) PERMISSIVE: 3-SECTION
(1) NO TURN ON RED SIGN RESTRICTION
SIDE STREET:
(2) PERMISSIVE: 3-SECTION



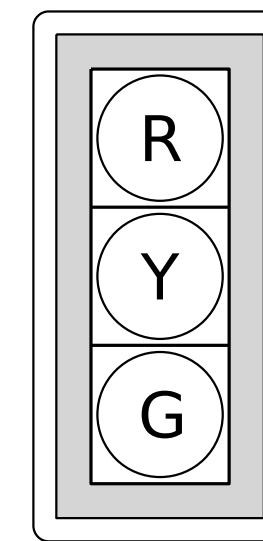
D E



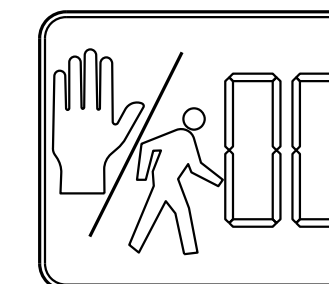
F



1,4,7,10



2,3,5,6
8,9,11,12

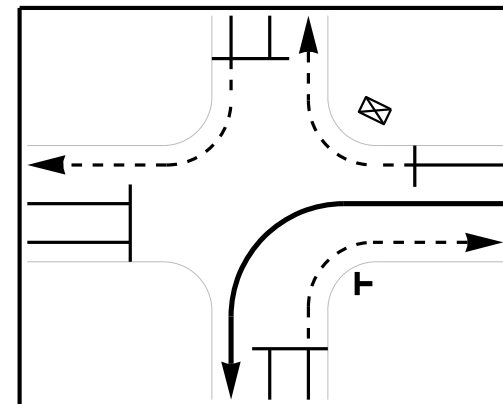


13,14,15,16
17,18,19,20

RING A

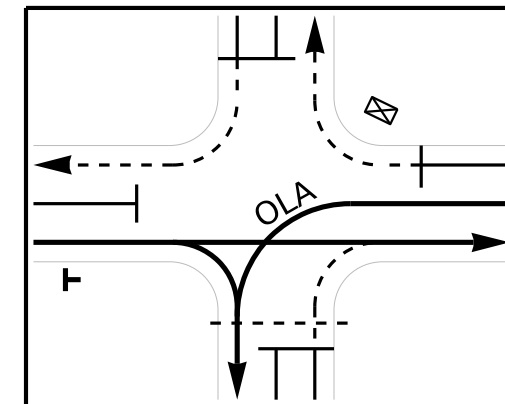
RING B

PHASE: 1



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
4	Ø1	⊗	←G-	←Y-	←R-
Ø	N/A	⊗	ON	ON	OFF

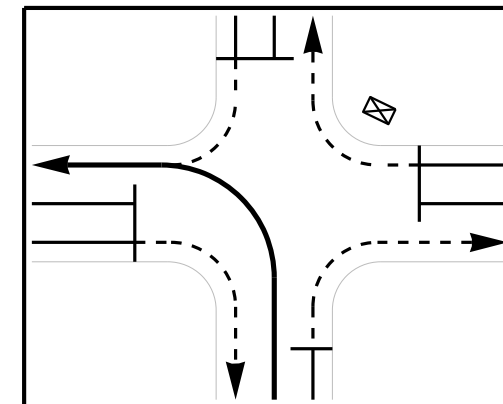
PHASE: 2 ACTIVE OVERLAP: A



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
2,3	Ø2	R	G	Y	R
Ø	N/A	SR	OFF/FR	SR	SR
13,14	Ø2P	W	W/FDW	DW	DW

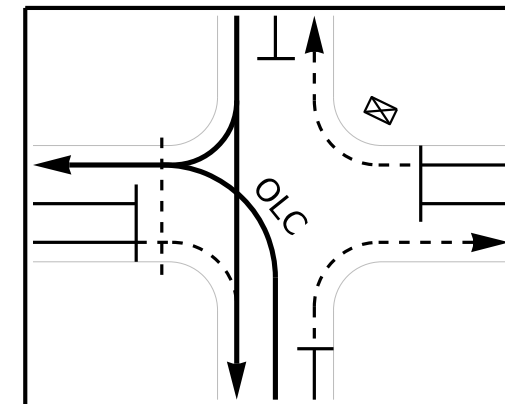
* FR FOR 10 SECONDS

PHASE: 3



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
10	Ø3	⊗	←G-	←Y-	←R-

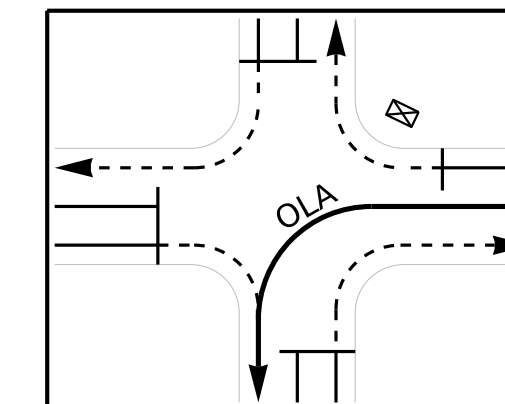
PHASE: 4 ACTIVE OVERLAP: C



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
8,9	Ø4	-	G	Y	R
17,18	Ø4P	-	W/FDW	DW	DW

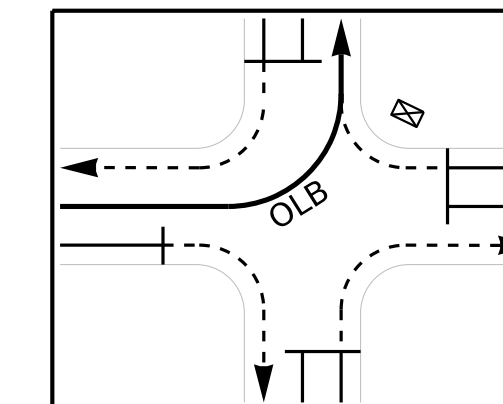
OVERLAPS

OVERLAP: A FYA



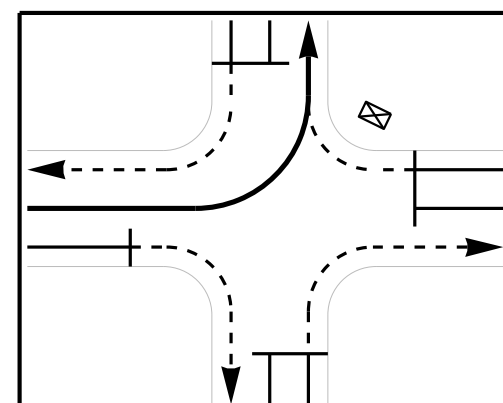
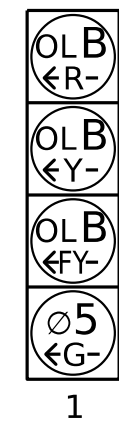
SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
4	OLA	⊗	←FY-	←Y-	←R-

OVERLAP: B FYA



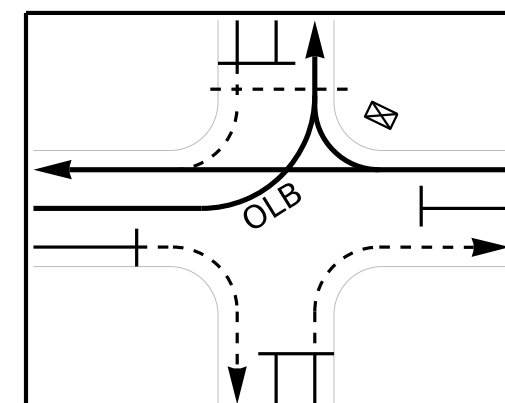
SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
1	OLB	⊗	←FY-	←Y-	←R-

PHASE: 5



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
1	Ø5	⊗	←G-	←Y-	←R-

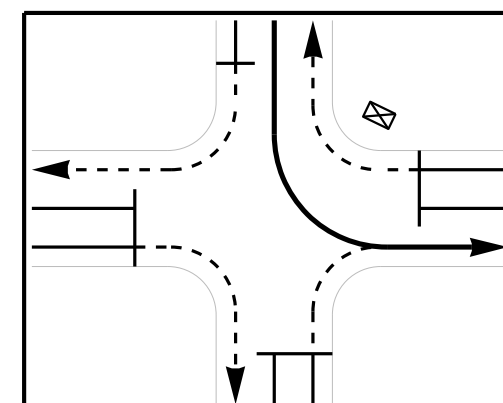
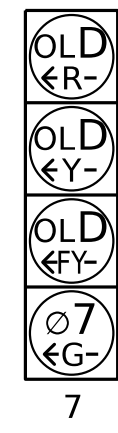
PHASE: 6 ACTIVE OVERLAP: B



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
5,6	Ø6	R	G	Y	R
15,16	Ø6P	W	W/FDW	DW	DW
Ø	N/A	ON*	ON*	OFF	OFF

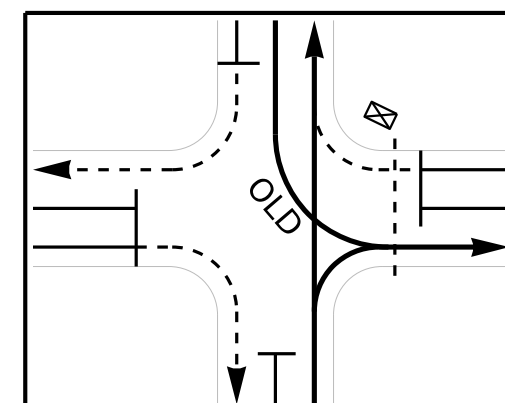
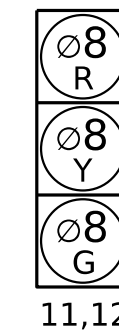
* ON DURING Ø6 W/FDW ONLY

PHASE: 7



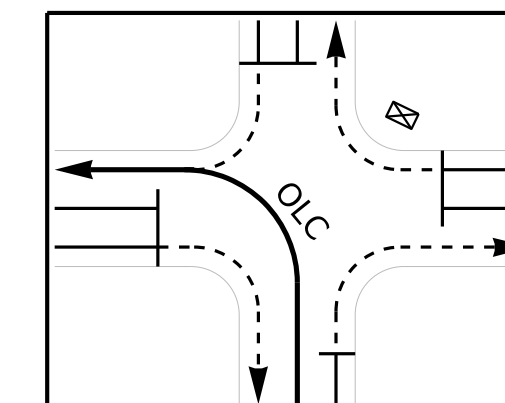
SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
7	Ø7	⊗	←G-	←Y-	←R-

PHASE: 8 ACTIVE OVERLAP: D



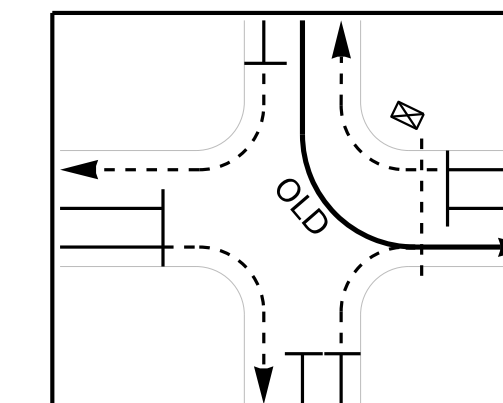
SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
11,12	Ø8	-	G	Y	R
19,20	Ø8P	-	W/FDW	DW	DW

OVERLAP: C FYA



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
10	OLC	⊗	←FY-	←Y-	←R-

OVERLAP: D FYA



SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
7	OLD	⊗	←FY-	←Y-	←R-

PHASE TIMING

PHASES	1	2	3	4	5	6	7	8
MIN GREEN	5	12	5	5	5	12	5	5
ADVANCE WALK		3				3		
WALK		7		7		7		7
DON'T WALK		15		15		15		15
VEH EXT	2	2	2	2	2	2	2	2
MAX 1	30	60	20	30	25	60	35	30
MAX 2	30	60	20	30	25	60	35	30
YELLOW	3	4	3	3	3	4	3	3
RED	3	3	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	NL	L	NL	NL

PREEMPTION

TYPE	EVP	EVP	EVP	EVP
CONFIRMATION SIGNAL	A	B	C	D
DWELL PHASES Ø	1,6	2,5	4,7	3,8
DWELL OVERLAPS				
PREEMPT MIN	10	10	10	10
PREEMPT MAX	60	60	60	60
EXIT PHASE Ø	1,6	2,5	4,7	3,8

OVERLAPS

OVERLAPS	A	B	C	D
SIGNALS	4	1	10	7
INDICATIONS	←R- ←Y- ←FY-	←R- ←Y- ←FY-	←R- ←Y- ←FY-	←R- ←Y- ←FY-
TYPE	FYA	FYA	FYA	FYA
INCLUDED Ø				
RIGHT EARLY START Ø				
FYA PROTECTED Ø	1	5	3	7
FYA PERMISSIVE Ø	2	6	4	8
FYA START DELAY	2	2	2	2
LAG GREEN	0	0	0	0
YELLOW	-	-	-	-
RED	-	-	-	-