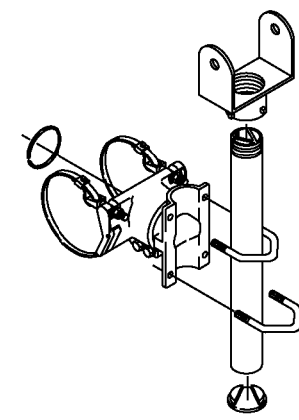


CAMERA EXTENSION BRACKET FOR MAST ARM

N.T.S.



TWO PIECE CAMERA MOUNT
TUBE LENGTHS: 23", 37", 46", OR 74"
BAND LENGTHS: 29", 36", 42", 48", OR 56"

NOTES:

ALL ASSEMBLIES SHALL HAVE STEEL FASTENERS AND STAINLESS STEEL CLAMP SCREW KITS.

FOR 2 PIECE BRACKET MOUNTS SHALL BE SPECIFIED FOR CAMERA TYPE.

SEE SHEET 90 FOR CROSS SECTIONS AT PROPOSED MAST ARM POLES

SEE SHEETS 56-59 FOR PAVEMENT MARKINGS AND SIGNS LAYOUT

MAJOR EQUIPMENT LIST

EQUIPMENT ITEM NO. 678.15	US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)
CANTILEVER POLES W/MAST ARMS	3
NEW 12" TRAFFIC SIGNAL HEADS (ONE-WAY, 3-SECTION) W/TUNNEL VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE	6
NEW 12" TRAFFIC SIGNAL HEADS (ONE-WAY, 5-SECTION) W/TUNNEL VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE	1
TS-2 TYPE I CONTROLLER/CABINET	1
CAMERA EXTENSION BRACKET (EA)	3
CAMERA ASSEMBLY (EA)	3
VIDEO DETECTION PROCESSOR (EA)	3
VIDEO DETECTION CABLE (LF)	352
GPS TIME SYNCHRONIZATION UNIT	1

EQUIPMENT	ITEM NO.	UNIT	US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)	NOTES
WIRED CONDUIT (2") (PVC)	678.23	LF	218	-
WIRED CONDUIT (2 1/2") (PVC)	678.23	LF	18	-
WIRED CONDUIT (3") (PVC)	678.23	LF	68	-
PULLBOX - STANDARD	678.25	EA	3	-
ELECTRICAL CONDUIT SLEEVE	678.30	LF	120	8 INCHES

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC., ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED.

US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)

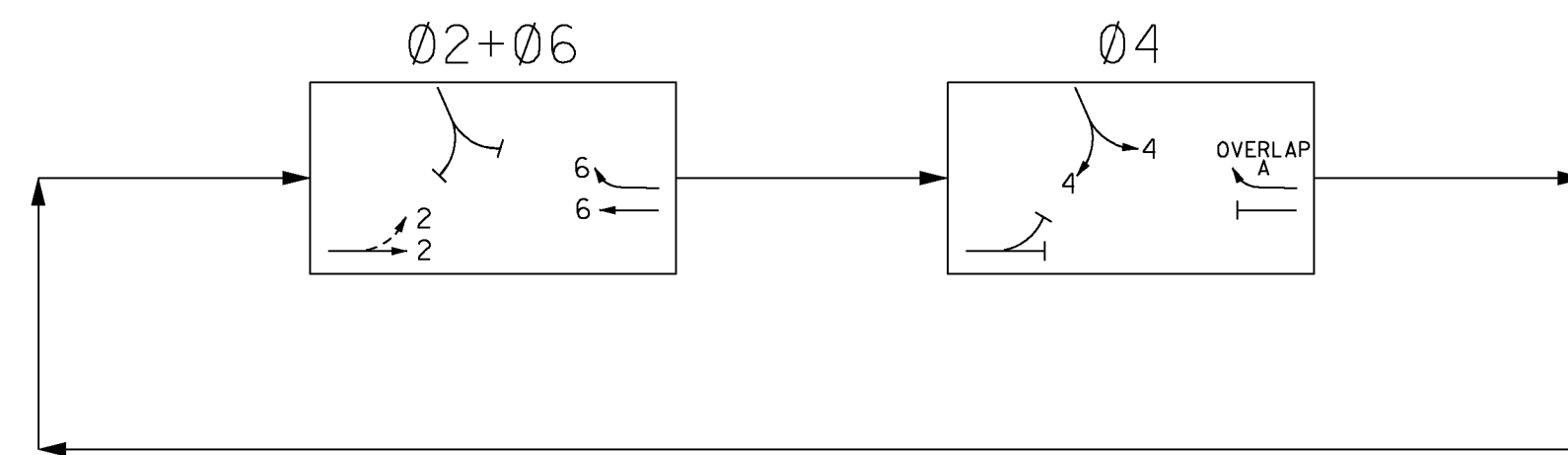
ELECTRICAL CONDUIT SLEEVE (8") (PVC)	WIRED CONDUIT (2") (PVC)	WIRED CONDUIT (2 1/2") (PVC)
PB1 TO CONTROLLER - 65' PB3 TO CONTROLLER - 55'	CONTROLLER TO SERVICE CONNECTION - 65' CONTROLLER TO PB1 - 86' PB1 TO MP1A - 5' PB2 TO PB3 - 54' PB2 TO MP1C - 8'	PB3 TO MP1B - 18'
	WIRED CONDUIT (3") (PVC)	CONTROLLER TO PB3 - 68'

NOTES:

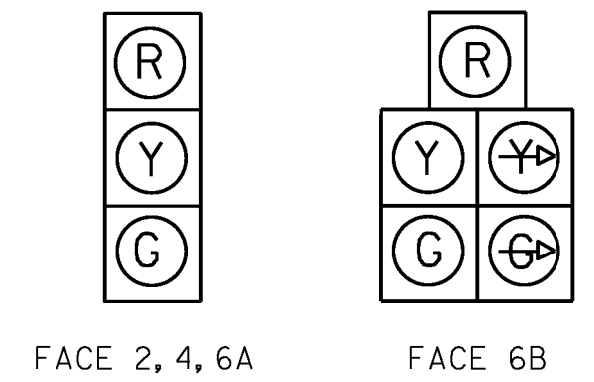
1) TRAFFIC SIGNAL CONDUIT PROPOSED IN ROADWAYS SHALL BE INSTALLED IN THE SAME TRENCHES AS THE TRAFFIC LIGHTING CONDUIT, REFER TO LIGHTING PLAN LAYOUT SHEET, 75.

PHASING DIAGRAM

US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)



PROPOSED SIGNAL FACE ARRANGEMENT 12" LENSES



US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)

TABLE OF CHANGE SEQUENCE

FACE	Ø2 + Ø6		Ø4		FLASHING OPERATION
	R/W	CLEAR TO ALL OTHER PHASES	R/W	CLEAR TO ALL OTHER PHASES	
2	G	Y R	R	R R	FY
4	R	R R	G	Y R	FR
6A	G	Y R	R	R R	FY
6B	G/Ø	Y/Ø R/Ø	R/Ø	R/Ø R/Ø	FY

US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD) COORDINATION TIMING (SECONDS)

DIAL SPLIT	CYCLE LENGTH	PHASES								OFFSETS	
		1	2	3	4	5	6	7	8	SEC	%
1 - 1	60		26		34		26			35	58
2 - 1	60		31		29		31			32	53
1 - 1		WEEKDAYS - 0600 - 0900									
2 - 1		WEEKDAYS - 1500 - 1900									

FOR ALL OTHER TIMES, THE INTERSECTION SHALL OPERATE IN FREE MODE, WITH MAX 2 GREEN TIMINGS.

NOTES:

- OFFSET IS REFERENCED AT THE END OF PHASE 4.
- SPLITS AND OFFSETS ARE SHOWN IN SECONDS.
- VIDEO DETECTION AREAS ARE IN NON-LOCK PRESENCE MODE.
- ANY PULL BOX OR JUNCTION BOX WITHIN SIDEWALK SHALL HAVE A SKID RESISTANT COVER.
- PROPOSED GPS SYSTEM WILL BE USED TO COORDINATE SIGNAL WITH THE SIGNAL AT THE INTERSECTION OF US ROUTE 2/1-89 SB OFF-RAMP.

US ROUTE 2 (WEST MAIN STREET) @ VT ROUTE 117 (RIVER ROAD)

CONTROLLER TIMING CHART

LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN		8		8		8		
PASSAGE/VEHICLE EXT		3		3		3		
YELLOW CLEARANCE		4		3		4		
ALL RED CLEARANCE		2		3		2		
MAX. 1 GREEN-60 SEC		20		28		20		
MAX. 2 GREEN-60 SEC		25		23		25		
SEC/AT		-		-		-		
TIME BEFORE REDUCE		-		-		-		
TIME TO REDUCE		-		-		-		
WALK		-		-		-		
FLASHING DON'T WALK		-		-		-		
DON'T WALK		-		-		-		
RECALL		N.L.		SOFT		N.L.		

NOTES:

- DETECTION ZONE 4A SHALL HAVE A 5 SECOND CALL DELAY

PROJECT NAME: RICHMOND
PROJECT NUMBER: STP 0284 (17)

FILE NAME: z97cl86trfbdr.dgn PLOT DATE: 4/29/2013
PROJECT LEADER: JEFFREY MAXTUTIS DRAWN BY: Y.CAO/LALMY
DESIGNED BY: J.SOBEL CHECKED BY: D.FLYNN
TRAFFIC SIGNAL PLANS SHEET 2 SHEET 67 OF 133