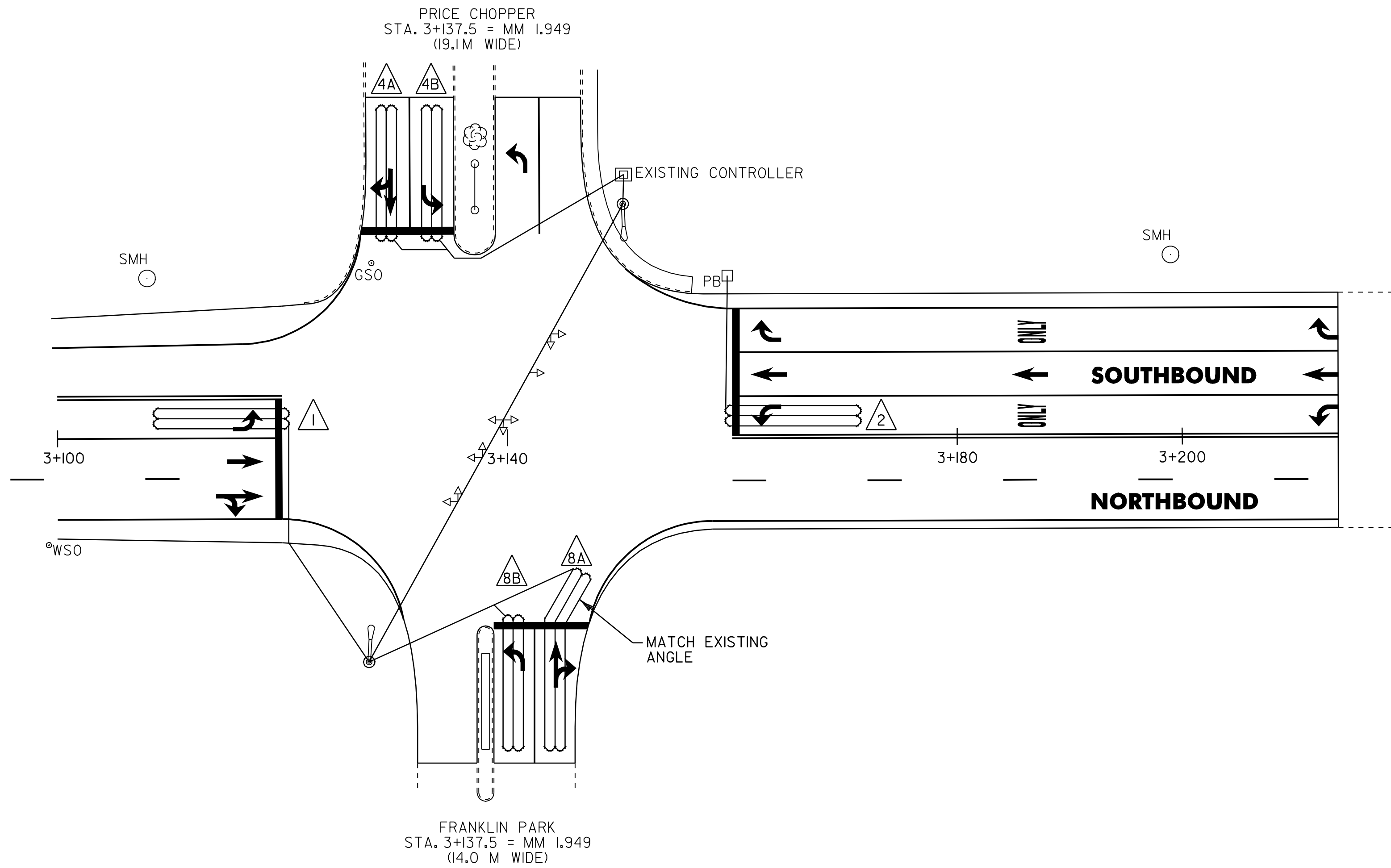


### U.S. ROUTE 7 /PRICE CHOPPER /FRANKLIN PARK INTERSECTION VEHICLE DETECTOR LOOPS

LAYOUT SHEET	LOOP NO.	LANE	CALL Ø	SIZE (M)	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE (µH)		RESISTANCE (OHMS)		LEAKAGE TO GROUND (MEGOHMS)	LOCKING MEMORY
							CALC.	ACT.	CALC.	ACT.		
U.S. ROUTE 7 - 4	1	NB - LEFT ONLY		1.8 X 12.0	QUAD - 2	PRESENCE	405		1.472			ON
U.S. ROUTE 7 - 4	2	SB - LEFT ONLY		1.8 X 12.0	QUAD - 2	PRESENCE	344		0.686			ON
U.S. ROUTE 7 - 4	4A	RIGHT AND THRU (PRICE CHOPPER)		1.8 X 12.0	QUAD - 2	PRESENCE	353		0.803			OFF
U.S. ROUTE 7 - 4	4B	LEFT ONLY (PRICE CHOPPER)		1.8 X 12.0	QUAD - 2	PRESENCE	350		0.760			ON
U.S. ROUTE 7 - 4	8A	RIGHT AND THRU (FRANKLIN PARK)		1.8 X 16.5	QUAD - 2	PRESENCE	211		1.262			OFF
U.S. ROUTE 7 - 4	8B	LEFT ONLY (FRANKLIN PARK)		1.8 X 12.0	QUAD - 2	PRESENCE	399		1.387			ON

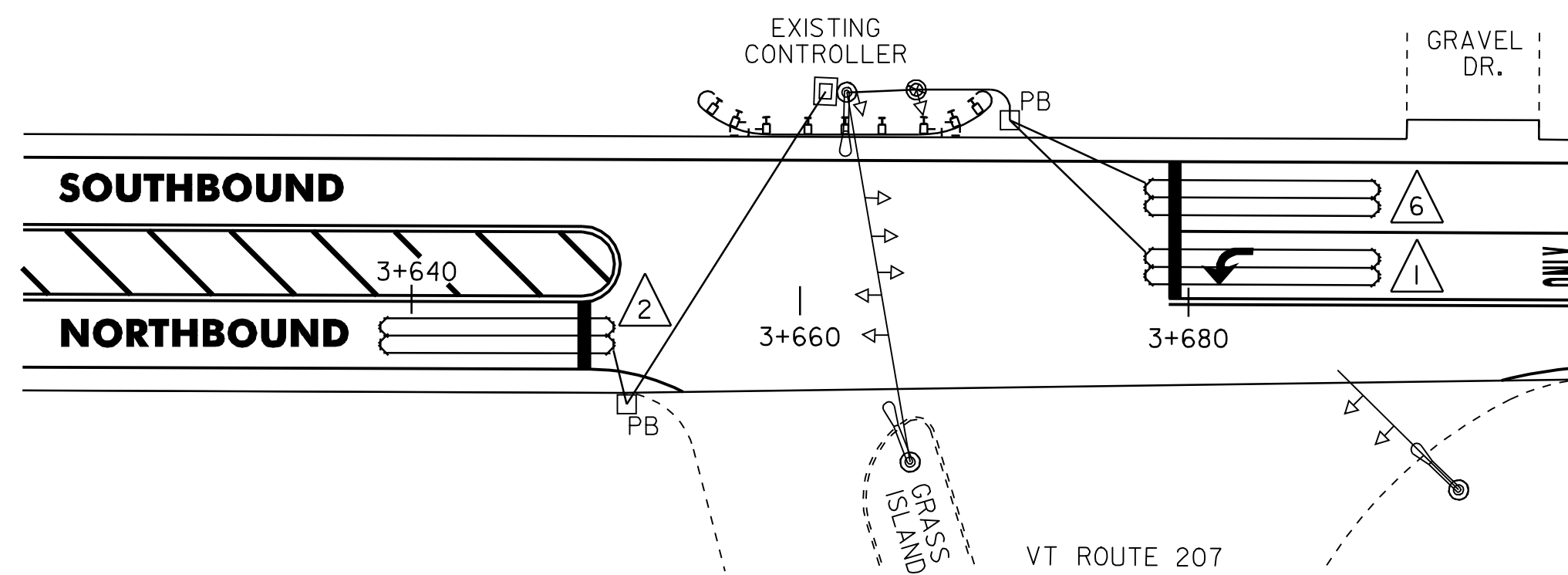


**NOTES:**

1. THIS PLAN SHEET SHALL ONLY BE USED AS A GUIDE FOR LOOP AND JUNCTION BOX PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
2. LOOPS ARE TO BE TERMINATED AT THE CONTROLLER WITH A 1M SLACK PER LOOP WIRE.
3. ALL BITUMINOUS AREAS TO RECEIVE NEW VEHICLE DETECTOR LOOPS SHALL BE LEVELED WITH TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AS DIRECTED BY THE RESIDENT ENGINEER PRIOR TO THE INSTALLATION OF THE NEW DETECTOR LOOPS. LOOPS SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF THE WEARING COURSE.
4. IF WATER VALVES, DROP INLETS OR OTHER OBSTRUCTIONS ARE ENCOUNTERED WITHIN THE AREA OF A PROPOSED LOOP, THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID THE OBSTRUCTION DURING LOOP INSTALLATION. IF LOOP SIZES OR SHAPES ARE TO BE MODIFIED DUE TO OBSTRUCTIONS THE RESIDENT ENGINEER MUST APPROVE LAYOUT PRIOR TO INSTALLATION.
5. AFTER THE NEW LOOPS ARE INSTALLED, THE INDUCTANCE, RESISTANCE AND LEAKAGE TO GROUND SHALL BE TESTED USING PROPERLY CALIBRATED EQUIPMENT. THE TEST RESULTS SHALL BE COMPARED WITH THE CALCULATED VALUES AND RECORDED ON THE PLANS. ALL LOAD TESTING SHALL BE PERFORMED AS PER VTrans STANDARD E-172M.
6. CALCULATED VALUES AT THE JUNCTION BOXES ARE BASED ON DIRECT CONDUIT ROUTING AS SHOWN ON THIS SHEET. ANY JUNCTION BOX MODIFICATION AND/OR RELOCATION PRIOR TO LOOP CONNECTION WILL REQUIRE RECALCULATION OF THESE VALUES.
7. ALL WORK SHALL BE SUBSIDIARY TO ITEM 678.22, VEHICLE DETECTOR LOOP. FOR ADDITIONAL DETAILS SEE VTrans STANDARDS E-172M & E-173M.
8. ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED.

### U.S. ROUTE 7/VT ROUTE 207 INTERSECTION VEHICLE DETECTOR LOOPS

LAYOUT SHEET	LOOP NO.	LANE	CALL Ø	SIZE (M)	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE (µH)		RESISTANCE (OHMS)		LEAKAGE TO GROUND (MEGOHMS)	LOCKING MEMORY
							CALC.	ACT.	CALC.	ACT.		
U.S. ROUTE 7 - 5	1	SB - LEFT ONLY		1.8 X 12.0	QUAD - 2	PRESENCE	350		0.760			ON
U.S. ROUTE 7 - 5	2	NB - RIGHT AND THRU		1.8 X 12.0	QUAD - 2	PRESENCE	355		0.824			OFF
U.S. ROUTE 7 - 5	6	SB - THRU		1.8 X 12.0	QUAD - 2	PRESENCE	348		0.739			ON



EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST
		STANCHION
		SWEEP
		LOOP NUMBER



**VEHICLE DETECTOR LOOP LAYOUT**

PROJECT NAME: ST. ALBANS - SWANTON

PROJECT NUMBER: STP 2335(I)S

FILE NAME: /pave/01c016/p01c016.dgn

PROJECT LEADER: JLL

DESIGNED BY: D-H

IPARM FILE NAME: p01c016pd+03.1

PLOT DATE: 16-SEP-2005

DRAWN BY: D-H

CHECKED BY: D-H

SHEET 51 OF 89