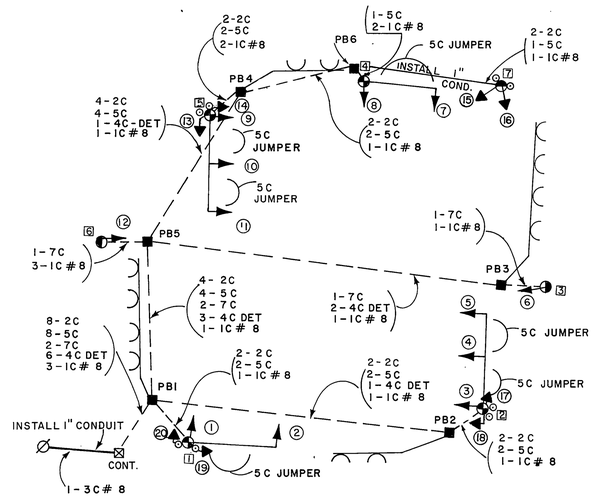


WIRING DIAGRAM

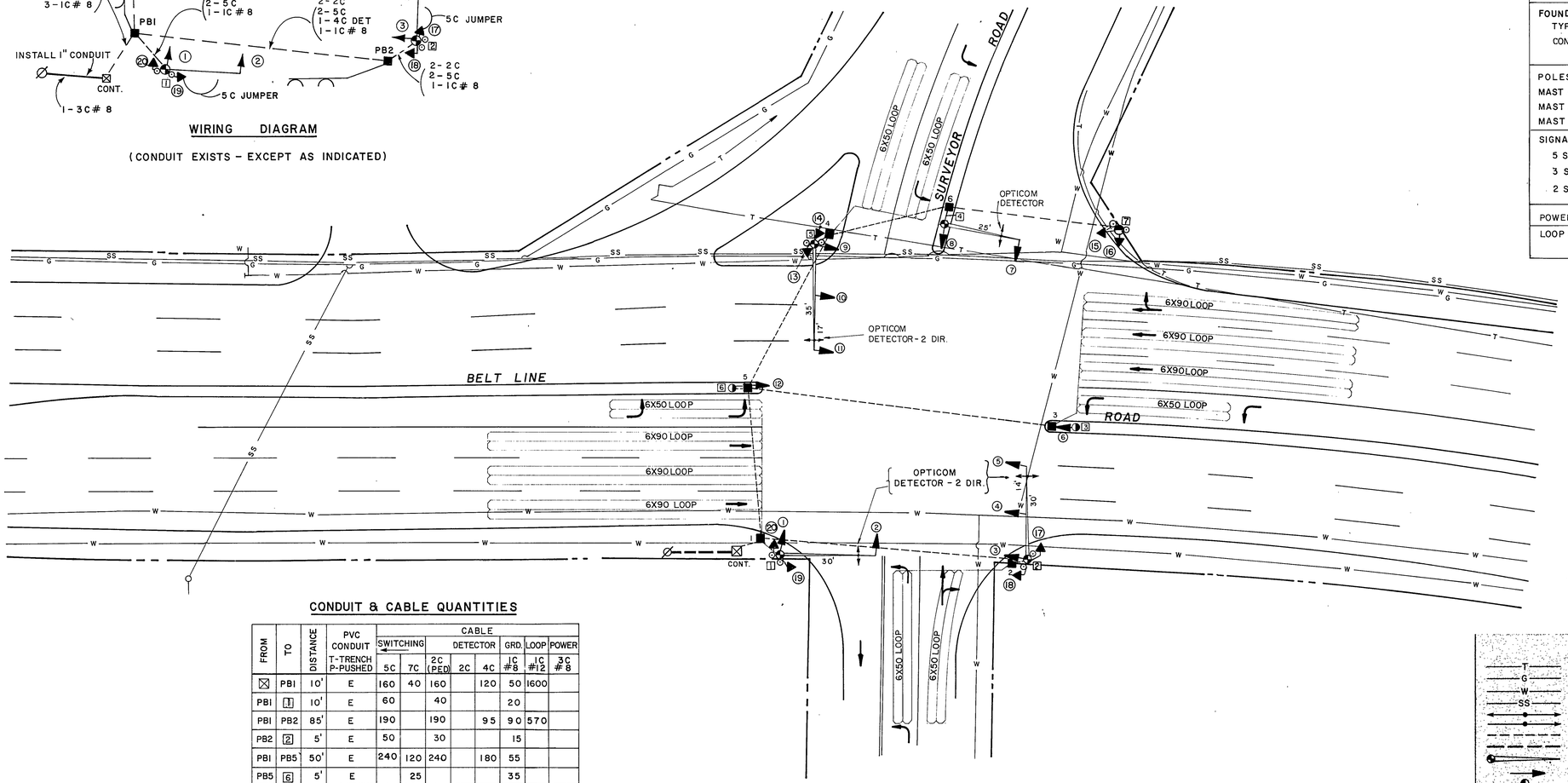
(CONDUIT EXISTS - EXCEPT AS INDICATED)

SIGNAL HEAD ARRAYS

HEAD NUMBERS →	3,4,5 9,10,11	6,12	1,2 7,8	13,14 15,16	17,18 19,20
LENS SIZE →	12"	12"	12"	12"	12"
TYPE →	CONV.	CONV.	CONV.	CONV. PED.	CONV. PED.
LENS CONFIGURATION	R	R	R	DW	DW
	Y	Y	Y	WALK	WALK
	G	G	G		
		←Y			
		←G			
TOTAL NUMBER OF UNITS →	6	2	4	4	4

QUANTITIES

ITEM	UNIT	QUAN.
PULL BOX (EXIST.)		
CONDUIT :		
1-INCH P.V.C. (IN TRENCH)	L.F.	35
1-INCH P.V.C. (PUSHED)	L.F	60
PEDESTRIAN PUSH BUTTONS	PR.	4
CABLE - WIRE :		
5 CONDUCTOR #12	L.F.	1465
7 CONDUCTOR #12	L.F.	320
2 CONDUCTOR DETECTOR	L.F.	—
4 CONDUCTOR DETECTOR	L.F.	685
1 CONDUCTOR # 8 - GROUND	L.F.	610
2 CONDUCTOR # 12 (PED. DET.)	L.F	1220
XHHW DETECTOR LOOP	L.F.	4360
3 CONDUCTOR # 8 - POWER	L.F.	65
FOUNDATIONS :		
TYPE C (PEDESTAL N.E. CORNER)	EA.	1
CONTROLLER, IN PLACE	EA.	1
POLES : SIGNAL PEDESTALS	EA.	3
MAST ARM POLE W/25' ARM	EA.	1
MAST ARM POLE W/30' ARM	EA.	2
MAST ARM POLE W/35' ARM	EA.	1
SIGNAL HEADS :		
5 SECTION - 12" LENS	EA.	2
3 SECTION - 12" LENS	EA.	10
2 SECTION - 12" PEDESTRIAN	EA.	8
POWER SUPPLY	EA.	1
LOOP DETECTOR AMPLIFIER	EA.	12



CONDUIT & CABLE QUANTITIES

FROM	TO	DISTANCE	PVC CONDUIT T-TRENCH P-PUSHED	CABLE SWITCHING 5C	7C	DETECTOR 2C (PED)	2C	4C	GRD. #8	LOOP #12	POWER 3C #8
⊠	PB1	10'	E	160	40	160		120	50	1600	
PB1	1	10'	E	60		40			20		
PB1	PB2	85'	E	190		190		95	90	570	
PB2	2	5'	E	50		30			15		
PB1	PB5	50'	E	240	120	240		180	55		
PB5	6	5'	E		25				35		
PB5	PB3	100'	E		110			220	105	1640	
PB3	3	5'	E		25				15		
PB5	PB4	60'	E	280		280		70	65	550	
PB4	5	10'	E	60		40			30		
PB4	PB6	40'	E	100		100			45		
∅	⊠	25'	1"T-35'								65
PB6	4	5'		25					20		
PB6	7	60'	1"P-60'	80		140			65		
(JUMPERS)				220							
TOTALS			1"T-35'	1465	320	1220		685	610	4360	65
			1"P-60'								

E = EXISTING

LEGEND

- T — TELEPHONE DUCT OR U.G. CABLE
- G — GAS MAIN OR SERVICE LINE
- W — WATER MAIN OR SERVICE LINE
- SS — SANITARY OR STORM SEWER
- INSTALL OPTICOM DETECTOR - 2 DIRECTIONS
- INSTALL OPTICOM DETECTOR - 1 DIRECTION
- EXISTING CONDUIT FOR SIGNAL CABLE
- INSTALL CONDUIT - IN TRENCH
- INSTALL SIGNAL MAST ARM & POLE
- INSTALL TRAFFIC SIGNAL HEAD
- INSTALL SIGNAL PEDESTAL POLE
- EXISTING PULL BOX
- INSTALL PULL BOX
- SERVICE POLE - A.C. SOURCE
- INSTALL PEDESTRIAN SIGNAL HEAD
- INSTALL PEDESTRIAN PUSH BUTTON W/INTEGRAL ILLUMINATED SIGN

5 PHASE FULLY ACTUATED SIGNAL CONTROL

SEE SHEET 1 FOR PHASING DIAGRAM AND INTERVAL CHART.

CONTROLLER FRAME TO BE OF AMPLE CAPACITY FOR FUTURE EXPANSION TO 6 PHASE OPERATION.

EMERGENCY VEHICLE PRE-EMPT SYSTEM (3M OPTICOM) WILL BE INCLUDED WITH THE CONTROLLER. IT WILL BE DETECTED FROM ALL 4 DIRECTIONS, PHASE 4 & 8.

CITY OF ADDISON

TRAFFIC SIGNAL INSTALLATIONS

BELT LINE ROAD

INTERSECTION LAYOUT

BELT LINE ROAD AND SURVEYOR ROAD

GINN, INC.

DESIGNED-	DRAWN-	DATE- JUNE, 1980	FILE-
APPROVED-	CHECKED-	SCALE- (PLAN) 1"= 20'	SHEET- 2 OF- 14