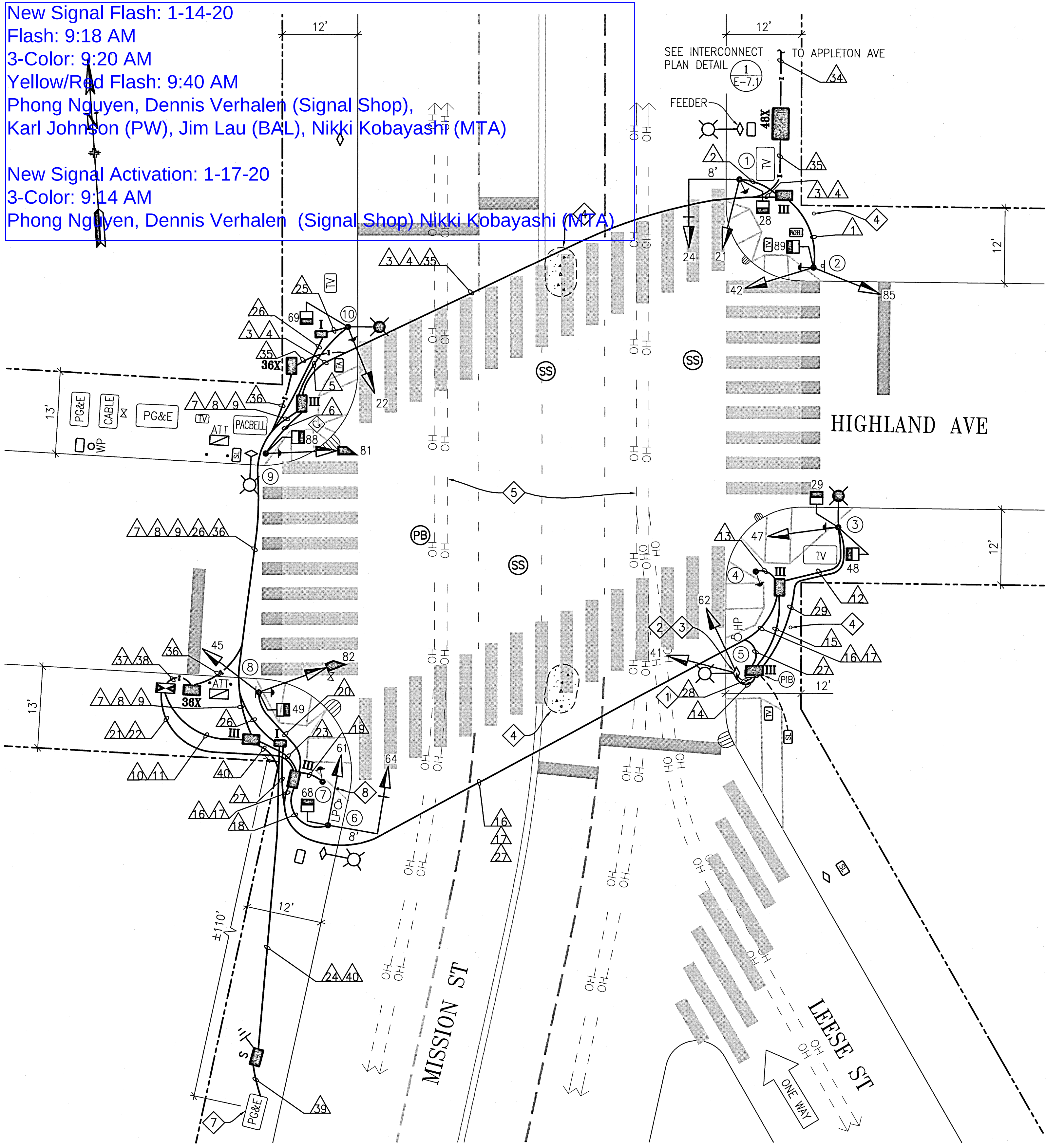


New Signal Flash: 1-14-20
Flash: 9:18 AM
3-Color: 9:20 AM
Yellow/Red Flash: 9:40 AM
Phong Nguyen, Dennis Verhalen (Signal Shop),
Karl Johnson (PW), Jim Lau (BAL), Nikki Kobayashi (MTA)

New Signal Activation: 1-17-20
3-Color: 9:14 AM
Phong Nguyen, Dennis Verhalen (Signal Shop) Nikki Kobayashi (MTA)



POLE AND EQUIPMENT SCHEDULE											
POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	16-2-100 WITH 8' MAST ARM		21 24	3S12" 3S12"	SV-1-T MAS ⑥	T T		28	1S-COUNT	SP-1	APS-2W BACKPLATE
②	1-A (10')		42 85	3S12" 3S12"	TV-2-T	T T		89	1S-COUNT	SP-1 (22")	APS-2W
③	CITY STANDARD STREET LIGHT	S3 108	47	3S12"	SV-1-T	T		29 48	1S-COUNT 1S-COUNT	SP-1-SF (12") with SP-1 (22")	APS-2W
④	PPB POLE (4')										APS-2W
⑤	EX MUNI POLE		41 62	3S12" 3S12"	SV-2-TC	T T					MOUNT SIGNAL 41 & 62 AT 13' EXTERNAL CONDUIT ① E-0.3
⑥	16-2-100 WITH 8' MAST ARM		61 64	3S12" 3S12"	SV-1-T MAS ⑥	T T		68	1S-COUNT	SP-1	MOUNT SIGNAL 61 AT 13' BACKPLATE
⑦	PPB POLE (4')										APS-2W
⑧	1-A (10')		45 82	3S12" 3S12"	TV-2-T	T RA		49	1S-COUNT	SP-1 (22")	APS-2W
⑨	1-A (10')		81	3S12"	TV-1-T	RA		88	1S-COUNT	SP-1 (22')	APS-2W
⑩	CITY STANDARD STREET LIGHT	S3 108	22	3S12"	SV-1-T	T		69	1S-COUNT	SP-1	MOUNT SIGNAL 22 AT 13' APS-2W

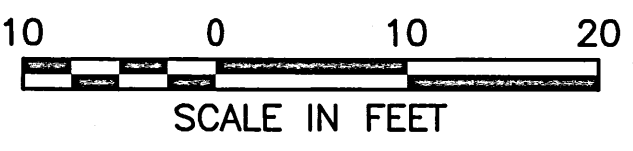
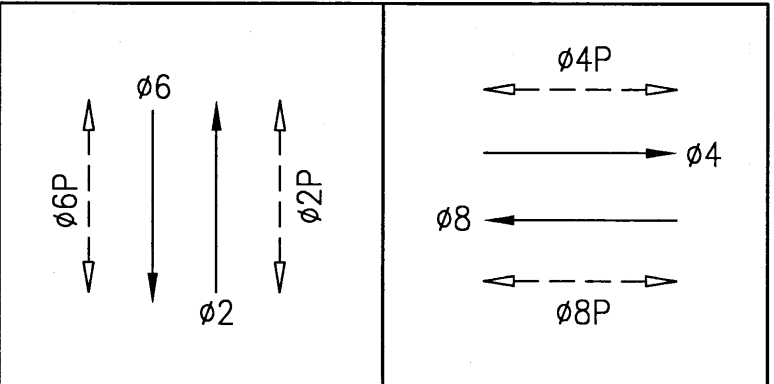
GENERAL NOTES:

1. FINAL STRIPING IS SHOWN.

SHEET NOTES:

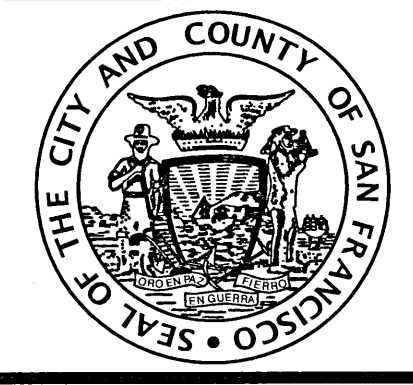
- ① DISCONNECT AND R/C (E) STREET LIGHT WIRE AT POLE 5. MAINTAIN (E) STREETLIGHT CIRCUIT. F/I WIRING FOR STREETLIGHT SHOWN IN CONDUIT & WIRING SCHEDULE.
- ② R/C 20 FT OF (E) EXTERNAL STREETLIGHT CONDUIT ON NORTH SIDE OF MUNI POLE. REPLACE WITH (N) EXTERNAL CONDUIT WITH BENDS WHERE NECESSARY TO ACCOMMODATE U-BOLTS FOR (N) SIGNAL ON POLE. SEE SPDPWSF 87,213 FOR DETAILS.
- ③ INSTALL EXTERNAL RISER TO "C" CONDUIT TO BE LOCATED ON EAST SIDE OF POLE, SEE EXTERNAL CONDUIT DETAIL ① E-0.3
- ④ BEFORE SIGNALS HAVE BEEN ACTIVATED, R/C EXISTING TRAFFIC ISLANDS, TRAFFIC SIGNS, AND REPAVE ROADWAY FLUSH WITH SURROUNDING STREET AREA.
- ⑤ EXERCISE CAUTION TO AVOID CONFLICT WITH OVERHEAD MUNI AND UTILITY WIRES AT THIS INTERSECTION.
- ⑥ CONTRACTOR SHALL MOUNT PLUMBIZER BETWEEN YELLOW AND GREEN SECTIONS.
- ⑦ PG&E SERVICE POINT IS A DISTRIBUTION BOX IN FRONT OF 3720 MISSION STREET. COORDINATE WITH PG&E THROUGH SFPUC FOR ACTIVATION OF SERVICE POINT.
- ⑧ PROTECT (E) BOLLARD.

PHASE DIAGRAM



NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

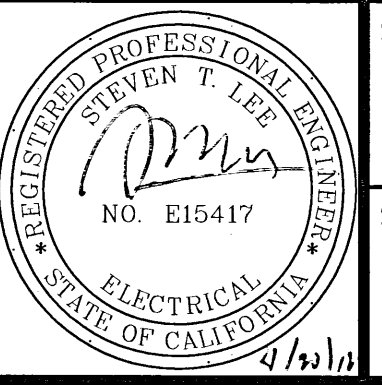
REFERENCE INFORMATION
& FILE NO. OF SURVEYS



BUREAU OF DESIGN & ENGINEERING
CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr: PHILIP THWIN
Deputy Bureau Mgr: IQBALBHAI DHAPA
Bureau Mgr: PATRICK RIVERA

DESIGNED: DATE: 4/23/18
NK/CMF
DRAWN: DATE: 4/23/18
NK/CMF
CHECKED: DATE: 4/24/18
GD/SL



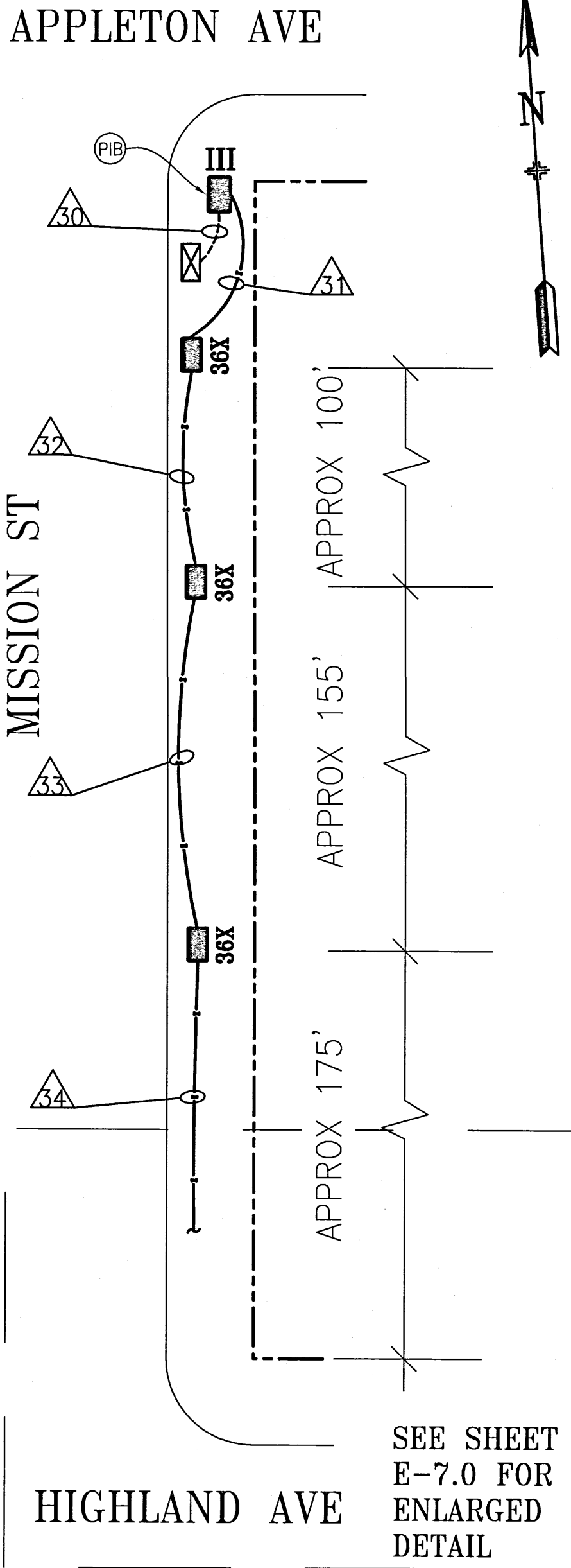
SCALE:
AS SHOWN
SHEET OF SHEETS
23 OF 43

CONTRACT 64
NEW TRAFFIC SIGNALS
HIGHLAND AVENUE & MISSION STREET
TRAFFIC SIGNAL WORK
POLE AND EQUIPMENT SCHEDULE

CONTRACT NO.
1000009385
DRAWING NO.
E-7.0
FILE NO.
111,770
REV. NO.
0

CONDUIT AND WIRING SCHEDULE (FURNISH AND INSTALL CONDUIT AND WIRES)

CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
CONDUIT SIZE (INCH)		2	2	2	2	2	2	2	2	2	3	2	2	1	2	2	2	2	2	1	2	3	2	2	2	2	2	2	2	2	UNK	2	1	1	1	2	2	2	2	3	2	
					SP					SP								SP					SP	SP	GRS	GRS	GRS	GRS	EX	GRS	EX									SP		
NOTES																																										
	VEHICLE SIGNAL 85	3		3				3			3																															
	VEHICLE SIGNAL 42	3		3				3			3																															
	PED SIGNAL 89	2		2				2			2																															
	APS PPB XING HIGHLAND ON POLE 2	2		2				2			2																															
	VEHICLE SIGNAL 24		3	3				3			3																															
	VEHICLE SIGNAL 21		3	3				3			3																															
	PED SIGNAL 28		2	2				2			2																															
	APS PPB XING ALEMANY ON POLE 1		2	2				2			2																															
	VEHICLE SIGNAL 22					3			3		3																															
	PED SIGNAL 69					2			2		2																															
	APS PPB XING HIGHLAND ON POLE 10					2			2		2																															
	VEHICLE SIGNAL 81						3		3		3																															
	PED SIGNAL 88						2		2		2																															
	APS PPB XING HIGHLAND ON POLE 9						2		2		2																															
	VEHICLE SIGNAL 47												3				3						3																			
	PED SIGNAL 29												2				2						2																			
	PED SIGNAL 48												2				2						2																			
	APS PPB XING HIGHLAND ON POLE 3												2				2						2																			
	APS PPB XING MISSION ON POLE 4													2			2						2																			
	VEHICLE SIGNAL 41														3	3	3						3																			
	VEHICLE SIGNAL 62														3	3	3						3																			
	VEHICLE SIGNAL 64																		3				3																			
	VEHICLE SIGNAL 61																		3				3																			
	PED SIGNAL 68																		2				2																			
	APS PPB XING MISSION ON POLE 7																			2			2																			
	VEHICLE SIGNAL 45																						3	3																		
	VEHICLE SIGNAL 82																						3	3																		
	PED SIGNAL 49																						2	2																		
	APS PPB XING HIGHLAND ON POLE 8																						2	2																		
	#14 NEUTRAL	3	3			2	2						3		2	2			3			3																				
	#14 SPARE			3				3			3						3					3																				
	TOTAL #14 WIRES	13	13	23		9	9	23	14		37		12	2	8	8	20		11	2	13	40																				
	#10 WIRES NEUTRAL			1				1	1		2						1					2																				
	#10 WIRES STREET LIGHT																									2			2	2												
	#8 WIRES STREET LIGHT																								2		2	2														
	#8 WIRES (120 V SERVICE)											2																												3	2	
	#8 AWG LOCATING WIRES																														2	2		2	2	2	2	2	2			



INTERCONNECT WIRING DETAIL
NOT TO SCALE

1

DETAIL NOTES:

1 F/1 4-2" HDPE CONDUIT WITH 3/8" PULL TAPE IN EACH CONDUIT. IN ONE OF THE EMPTY CONDUITS, INSTALL TWO #8 AWG STRANDED COPPER LOCATING WIRES (ONE WITH BLACK INSULATION AND THE OTHER WITH WHITE INSULATION). SEE SECTION 26-05-00 IN CONTRACT SPECIFICATIONS.