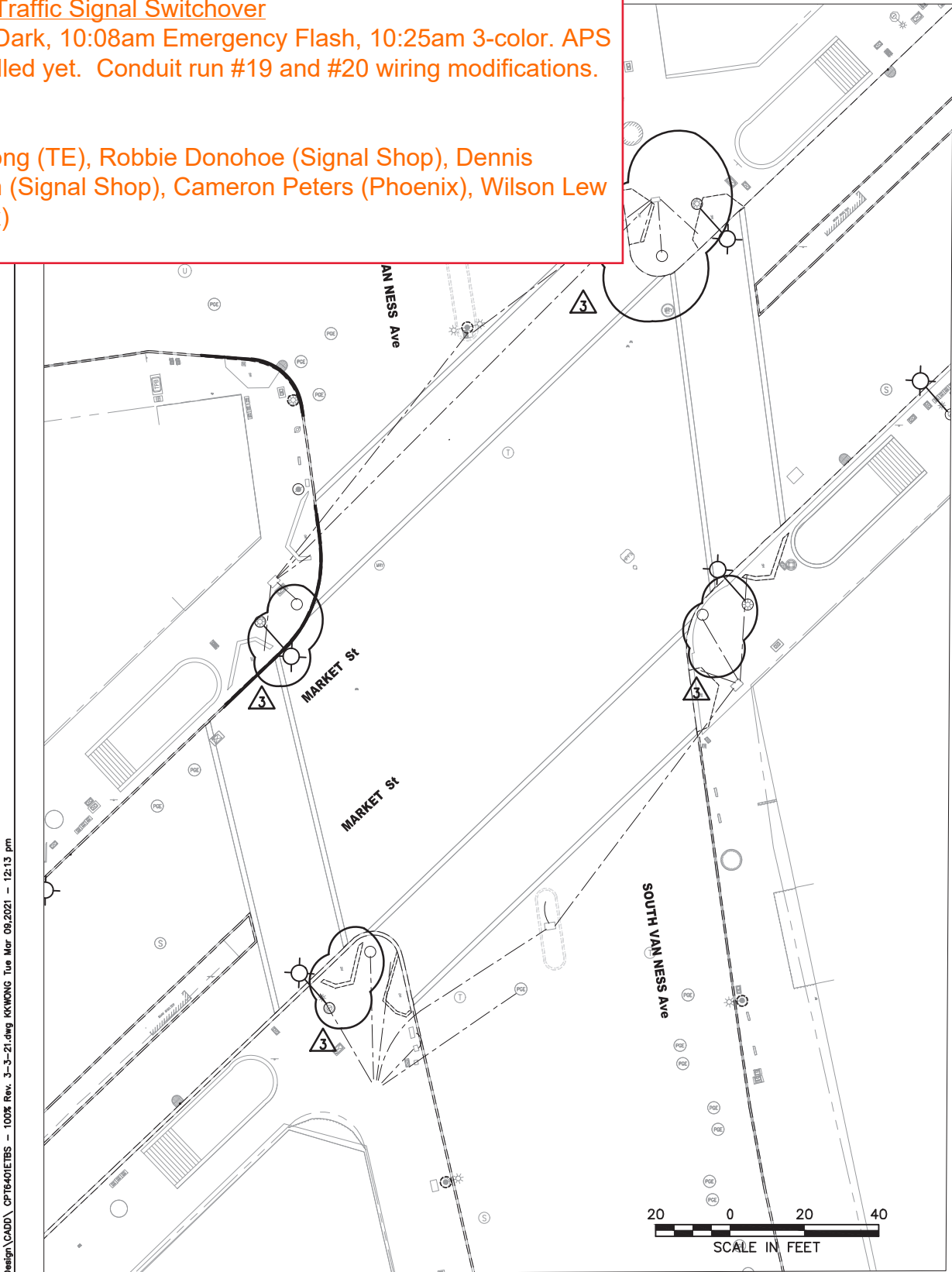


6/24/21 Traffic Signal Switchover
9:05am Dark, 10:08am Emergency Flash, 10:25am 3-color. APS
not installed yet. Conduit run #19 and #20 wiring modifications.

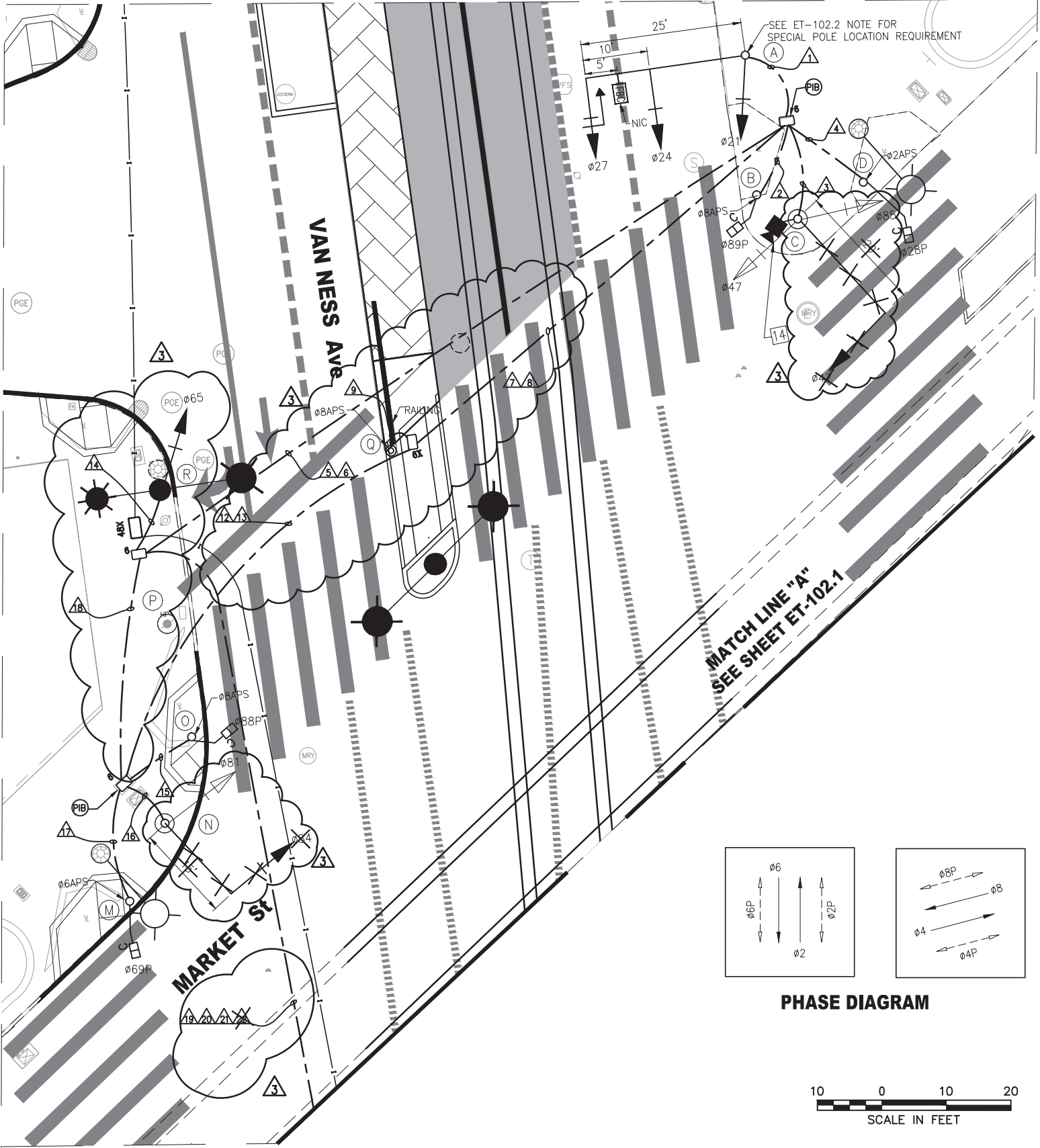
Staff

Ken Kwong (TE), Robbie Donohoe (Signal Shop), Dennis Verhalen (Signal Shop), Cameron Peters (Phoenix), Wilson Lew (Phoenix)



EXISTING EQUIPMENT

FOR ORIGINAL SIGNATURES, SEE ET-102.0, REV 0



PHASE DIAGRAM

SCALE IN FEET

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
3	11/10/20	CONFORM SET AND UPDATED W/ FM#305 & RF#625, 695	KK	MV	CL
SK	7/26/19	RF#695 - SIG 65 MOVED TO TYPE 15TS POLE AT OAK	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	03/2018	ADDED FBC SIGN ON POLE A, ADDED TYPE 6X PULLBOXES	KK	MV	CL

DESIGNED	K. KWONG
DRAWN	K. KWONG
CHECKED	R. ZAMORA/C. LIU
REVIEWED	C. LIU
RECOMMENDED	P. WILSON
APPROVED	R. OLEA
DATE	12/4/2015



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

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for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

MARKET STREET
TRAFFIC SIGNAL WORK

1289

ET-102.0

ET-204

REVISION

3

DETAIL NOTES:

- ⬠ INTERCEPT EXISTING CONDUITS, CONNECT WITH SIMILAR MATERIALS AND EXTEND TO NEW PULL BOX.



MATCH LINE "A"
SEE SHEET ET-102.0

MARKET St

SOUTH VAN NESS AVE



FOR ORIGINAL SIGNATURES, SEE ET-102.1, REV 0

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NO.	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED
3	11/10/20	CONFORMED SET: UPDATED W/ FM#305, RF#625 & #932	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	03/2018	REVISED CONDUIT RUN AT SE CORNER; ADDED FBC SIGN ON POLE 1; REMOVED BBS; ADDED TYPE 6X PULLBOXES	KK	MV	CL

DESIGNED	K. KWONG
DRAWN	K. KWONG
CHECKED	R. ZAMORA/C. LIU
REVIEWED	C. LIU
RECOMMENDED	P. WILSON
APPROVED	R. OLEA
DATE	12/4/2015



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MUNI BUS RAPID TRANSIT SYSTEM		1289
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT		
MARKET STREET TRAFFIC SIGNAL WORK		ET-102.1
		ET-204
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POLE AND EQUIPMENT SCHEDULE													
POLE NO.	POLE STANDARD			VEHICLE SIGNAL					PEDESTRIAN SIGNAL			HPS LUMINAIRE (WATTS)	SPECIAL REQUIREMENTS
	TYPE	SIG. MA (FEET)	OCS SL	No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING		
(A)	SPECIAL MAST ARM POLE (18-4-100)	25		21 24 27	3S12" 3S12" 3S12"GUA	SV-1-T MAS MAS	T T T		-	-	-	-	STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 21' HIGH COORDINATE WITH JC DECAUX (415-633-1210) TO RELOCATE KIOSK TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS
(B)	EXISTING PED POLE	-		-	-	-	-		89	1S-COUNT	TP-1	-	APS ①
(C)	EXISTING OCS POLE	20	1416	(E) 47 (E) 85	(E) 3S12" (E) 3S12"	(E) SV-1-T (36"NIPPLE) (E) SV-1-T	(E) T (E) T	③	-	-	-	-	MOUNT SIGNAL MA AT 20' HIGH ON EXISTING OCS POLE APS ② TRAFFIC CAMERA ③
(D)	EXISTING PED POLE	-		-	-	-	-		28	1S-COUNT	TP-1	-	APS ①
(E)	EXISTING PED POLE	-		-	-	-	-		29	1S-COUNT	TP-1	-	APS ①
(F)	EXISTING OCS POLE	5	1499	(E) 25 (E) 41 44	(E) 3S12" (E) 3S12" 3S12"	(E) SV-1-T (36"NIPPLE) (E) SV-1-T (36"NIPPLE) MAS	(E) T (E) T T	③	-	-	-	-	SIGNAL 25 - NO NEW SIGNAL HEAD NEEDED. AT SWITCHOVER CONTRACTOR SHALL ROTATE SOUTHBOUND SIGNAL 62 TO BECOME SIGNAL 25 ON (E) SV-1-T (36"NIPPLE) MOUNTING.
(G)	EXISTING PED POLE	-		-	-	-	-		48	1S-COUNT	TP-1	-	APS ①
(H)	PPBP POLE	-		-	-	-	-		-	-	-	-	APS ①
(I)	SPECIAL MAST ARM POLE (16-3-100)	20		61 64 67	3S12" 3S12" 3S12"GUA	SV-1-T MAS MAS	T T T		-	-	-	-	STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 23.5' HIGH TSP ② TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS
(J)	EXISTING PED POLE	-		-	-	-	-		49	1S-COUNT	TP-1	-	APS ①
(K)	EXISTING OCS POLE	10	1501	(E) 45 (E) 87	(E) 3S12" (E) 3S12"	(E) SV-1-T (36"NIPPLE) (E) SV-1-T (36"NIPPLE)	(E) T (E) T	③	-	-	-	-	MOUNT SIGNAL MA AT 20' HIGH ON EXISTING OCS POLE
(L)	EXISTING PED POLE	-		-	-	-	-		68	1S-COUNT	TP-1	-	APS ①
(M)	EXISTING PED POLE	-		-	-	-	-		69	1S-COUNT	TP-1	-	APS ①
(N)	EXISTING OCS POLE	15	1502	(E) 81 84	(E) 3S12" 3S12"	(E) SV-1-T (36"NIPPLE) MAS	(E) T T	③	-	-	-	-	MOUNT SIGNAL MA AT 20' HIGH ON EXISTING OCS POLE
(O)	EXISTING PED POLE	-		-	-	-	-		88	1S-COUNT	TP-1	-	APS ①
(P)	NOT USED	-	1500						-	-	-	-	③
(Q)	PPBP POLE	-		-	-	-	-		-	-	-	-	APS ①
(R)	STREETLIGHT 15TS			65	3S12"	SV-1-T	T						③

MOUNT SIGNAL 27 BETWEEN YELLOW AND GREEN ③

MOUNT SIGNAL 67 BETWEEN YELLOW AND GREEN ③

*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS.
FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE CALTRANS STANDARD PLANS OR DETAIL DRAWINGS.

- ① INSTALL APS WIRING AS SHOWN IN CONDUIT AND WIRING SCHEDULE. CITY FORCES TO INSTALL CITY FURNISHED APS UNIT.
② INSTALL CITY FURNISHED TSP WIRING FROM TS OR COMBINED POLES WITH 3 FEET OF SLACK TO TS CABINET.
③ INSTALL CITY FURNISHED TRAFFIC CAMERA AND CONTRACTOR FURNISHED WIRING.
④ FOR STREETLIGHT WORK, SEE SL-SERIES PLANS.

FOR ORIGINAL SIGNATURES, SEE ET-102.2, REV 0

3	11/10/20	CONFORMED SET: UPDATED W/RFI #895 AND #998	KK	MV	CL
SK	7/26/19	RFI #895 - SIG 65 MOVED TO TYPE 15TS POLE AT OAK	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	03/2018	UPDATED POLE STANDARD AND SPECIAL REQUIREMENT, UPDATED POLES A AND I; ADDED FBC TENON NOTE	KK	MV	CL
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

DESIGNED	K. KWONG
DRAWN	K. KWONG
CHECKED	R. ZAMORA/G. LIU
REVIEWED	C. LIU
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MARKET STREET
CONDUCTOR POLE AND EQUIPMENT SCHEDULES

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CONDUIT AND WIRING SCHEDULE

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	41	42	43	44	45	46	47	48		
CONDUIT SIZE (INCH)	2				2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2				2	2	2	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2	2	2	2		
		EX	EX	EX		SP	SP	SP			SP	SP	SP		EX	EX	EX		GRS	GRS	GRS	GRS	SP	EX	EX	EX		SP	SP	SP			SP	SP	SP		GRS	GRS	GRS			SP	SP							
VEHICLE SIGNAL 021	3				3					3	3	3							3				3											3																
VEHICLE SIGNAL 024	3				3					3	3	3							3				3																											
VEHICLE SIGNAL 027	3				3					3	3	3							3				3																											
PED SIGNAL 089P		2			2					2	2	2							2				2																											
APS PPB FOR XING VAN NESS NS ON POLE A		2			2					2	2	2							2				2																											
VEHICLE SIGNAL 047			3		3					3	3	3							3				3																											
VEHICLE SIGNAL 085			3		3					3	3	3							3				3																											
PED SIGNAL 028P				2	2					2	2	2							2				2																											
APS PPB FOR XING MARKET ES ON POLE D				2	2					2	2	2							2				2																											
APS PPB FOR XING VAN NESS NS ON POLE Q									2	2	3	3							2				2																											
VEHICLE SIGNAL 065													3					3				3																												
PED SIGNAL 088P														2				2				2																												
APS PPB FOR XING VAN NESS NS ON POLE O														2				2				2																												
VEHICLE SIGNAL 081																			3			3																												
VEHICLE SIGNAL 084																			3			3																												
PED SIGNAL 069P																			2			2																												
APS PPB FOR XING MARKET WS ON POLE M																		2			2																													
PED SIGNAL 029P																										2			2																					
APS PPB FOR XING MARKET ES ON POLE E																										2			2																					
VEHICLE SIGNAL 025																											3		3																					
VEHICLE SIGNAL 041																											3		3																					
VEHICLE SIGNAL 044																											3		3																					
PED SIGNAL 048P																											2		2																					
APS PPB FOR XING SOUTH VAN NESS SS ON POLE G																											2		2																					
APS PPB FOR XING VAN NESS SS ON POLE H																																																		
VEHICLE SIGNAL 061																																																		
VEHICLE SIGNAL 064																																																		
VEHICLE SIGNAL 067																																																		
PED SIGNAL 049P																																																		
APS PPB FOR XING VAN NESS SS ON POLE J																																																		
VEHICLE SIGNAL 045																																																		

FOR ORIGINAL SIGNATURES, SEE ET-102.3, REV 0

3	11/10/20	CONFORM SET-UPDATED W/RFI#591, 625, 695, 932, & 948	KK	MV	CL
SK	7/26/19	RFI #695 - SIG 65 MOVED TO TYPE 15TS POLE AT OAK	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	03/2018	REMOVED BBS	KK	MV	CL
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
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DESIGNED	K. KWONG
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CONDUIT & WIRING SCHEDULES

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