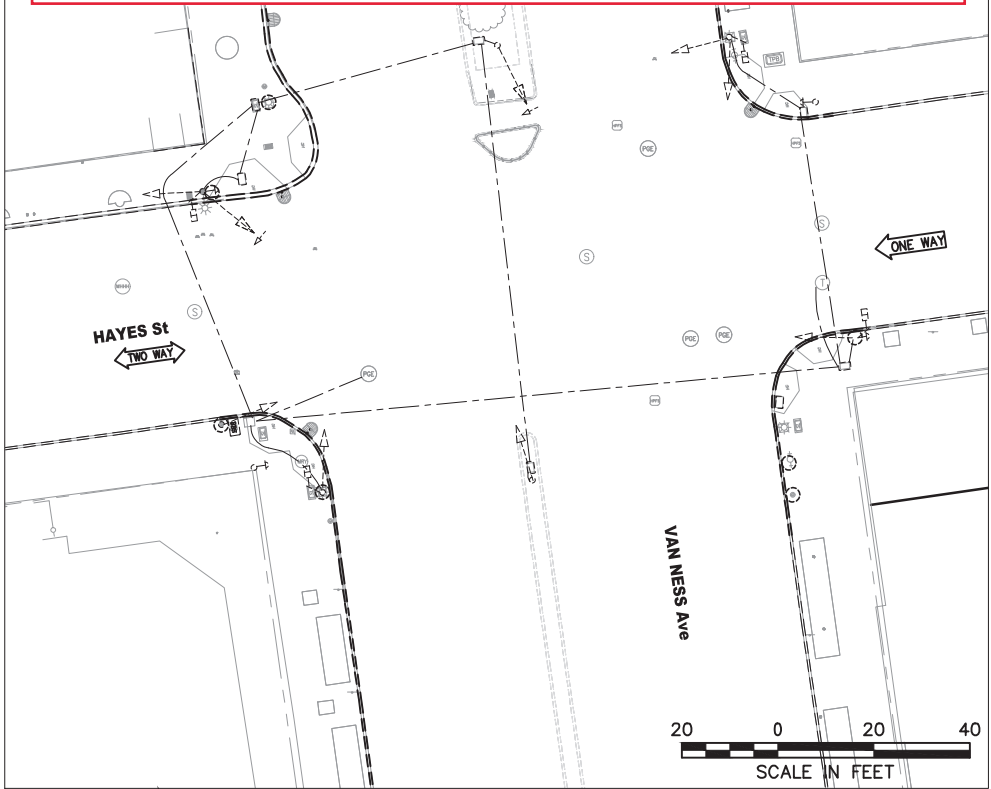


5/20/21 Traffic Signal Switchover
10:22am Dark, 11:08am Emergency Flash, 11:11am 3-color.
APS not installed yet and Transit Signals 132 & 133 disabled.

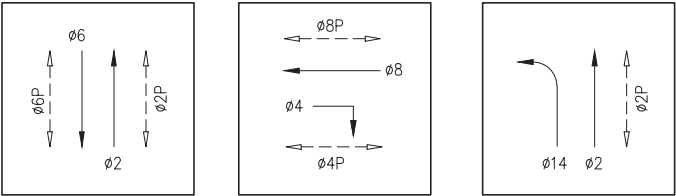
Staff

Ken Kwong (TE), Manito Velasco (TE), Robbie Donohoe (Signal Shop), Danny Guevara (Signal Shop), Glenn Wilson (CPC), Cameron Peters (Phoenix), Wilson Lew (Phoenix)



EXISTING EQUIPMENT

SRC 2022-150: CHANGED SIGNAL 41, 42, AND 45 TO A 3-SECTION RED RIGHT ARROW, YELLOW RIGHT ARROW, AND FLASHING YELLOW RIGHT ARROW ON 7/15/22 BY K.KWONG



PHASE DIAGRAM

4/1/22: TRANSIT SIGNALS ACTIVE

3	11/10/20	CONFORMED SET: UPDATED W/ RFI #870 & 932: FM#330	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
SK	3/26/19	RFI# 608: POLE B & H ADJUST PER LAYOUT & G IS PIP.	KK	MV	CL
1	03/2018	CHANGED DISTANCE BETWEEN SIGNALS 84 AND 87 FROM 10' TO 12'; ADDED FBC SIGNS ON POLES A AND G; REMOVED BBS; MOVE SIGNALS 41 AND 48 ONTO EXISTING OCS POLE D USING EXISTING CONDUIT; PIB EXISTING PB TO TYPE 6, ADDED TYPE 6X PULLBOX	KK	MV	CL
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

FOR ORIGINAL SIGNATURES, SEE ET-104.0, REV 0

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
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

HAYES STREET
TRAFFIC SIGNAL WORK

1289

ET-104.0

ET-204

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I:\T.E. FILES\SP\Projects\Van Ness BRT\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09 09:2021 - 12:13 pm
BORDER REVISED 11/17/05

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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)	SIGNAL, SL & OCS COMBO POLE	30	202 22	21 24 27	3S12" 3S12" 3S12"GUA	SV-1-T MAS MAS	T T T		28	1S-COUNT	SP-1	-	STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 21' HIGH SEE ST PLANS FOR POLE DETAILS TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS MOUNT SIGNAL 27 BETWEEN YELLOW AND GREEN 3
(B)	1-A (5')	-		-	-	-	-		-	-	-	-	APS X 2 1
(C)	SIGNAL & OCS COMBO POLE	-	196	42 85	3S12"FYRA 3S12"	SV-2-TA	T T		89	1S-COUNT	SP-1	-	
(D)	EXISTING OCS POLE	-		41	3S12"FYRA	SV-1-T	T		48	1S-COUNT	SP-1	-	APS 1
(E)	SIGNAL, SL & OCS COMBO POLE	-	190 18	25	3S12"	SV-1-T	T		29	1S-COUNT	SP-1	-	APS 1
(F)	TSB POLE	-		-	-	-	-		-	-	-	-	TSB
(G)	SPECIAL MAST ARM POLE (18-4-100)	30		61 64 67	3S12" 3S12" 3S12"GUA	SV-1-T MAS MAS	T T T		68	1S-COUNT	SP-1	-	STRAIGHT HORIZONTAL SIGNAL MA MOUNT AT 21' HIGH APS 1 AND TSP 2 TRAFFIC CAMERA 3 TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS INSTALL NEW POLE IN PLACE OF EXISTING POLE
(H)	18-1-100 3	25		45 82 84 87	3S12"FYRA 3S12" 3S12" 3S12"	SV-2-TA MAS MAS	T T T		49	1S-COUNT	SP-1	-	APS 1
(I)	1-A (10')	-		81	3S12"	TV-1-T	T		88	1S-COUNT	SP-1	-	APS 1
(J)	1-A (10')	-		65 132	3S12" 3S12"LB	TV-2-T	T T		69	1S-COUNT	SP-1	-	APS 1
(K)	1-A (10')	-		133	3S12"LB	TV-1-T	T		-	-	-	-	

*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.

SRC 2022-150: CHANGED SIGNAL 41, 42, AND 45 TO A 3-SECTION RED RIGHT ARROW, YELLOW RIGHT ARROW, AND FLASHING YELLOW RIGHT ARROW ON 7/15/22 BY K.KWONG

FOR ORIGINAL SIGNATURES, SEE ET-104.1, REV 0

3	11/10/20	CONFORMED SET: UPDATED W/RFI #870 & #998; FM#330	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
SK	3/28/19	RFI# 608: POLE G IS PIP PER LAYOUT.	KK	MV	CL
1	03/2018	UPDATED POLE STANDARD AND SPECIAL REQUIREMENT; UPDATED POLES A AND G; POLE D CHANGED TO EX. OCS POLE; SIGNAL 41 MOUNTING; ADDED FBC TENON	KK	MV	CL
		NOTE			
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

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



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HAYES STREET
CONDUCTOR POLE AND EQUIPMENT SCHEDULES

1289

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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	
CONDUIT SIZE (INCH)	2	1	2	2	2	2	2	2	3	2	2	2	2	1	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2	2	2
VEHICLE SIGNAL Ø21	3			3		SP	SP	EX					SP	SP	GRS			SP	SP								SP	SP				SP	SP					
VEHICLE SIGNAL Ø24	3			3						3										3																		
VEHICLE SIGNAL Ø27	3			3						3										3																		
PED SIGNAL Ø28P	2			2						2										2																		
APS PPB FOR XING VAN NESS NS ON POLE B		2		2						2										2																		
VEHICLE SIGNAL Ø42			3	3						3										3																		
VEHICLE SIGNAL Ø85			3	3						3										3																		
PED SIGNAL Ø89P			2	2						2										2																		
APS PPB FOR XING HAYES ES ON POLE B		2		2						2										2																		
VEHICLE SIGNAL Ø41							3		3		3						3			3																		
PED SIGNAL Ø48P							2		2		2						2			2																		
APS PPB FOR XING HAYES ES ON POLE D							2		2		2						2			2																		
VEHICLE SIGNAL Ø25								3	3		3						3			3																		
PED SIGNAL Ø29P								2	2		2						2			2																		
APS PPB FOR XING VAN NESS SS ON POLE E								2	2		2						2			2																		
TSB ON POLE F														2		2	2			2																		
TRANSIT SIGNAL Ø133																					3	3					3											
TRANSIT SIGNAL Ø132																										3	3					3						
VEHICLE SIGNAL Ø65																									3	3						3						
PED SIGNAL Ø69P																									2	2						2						
APS PPB FOR XING VAN NESS NS ON POLE J																									2	2						2						
VEHICLE SIGNAL Ø81																									3	3						3						
PED SIGNAL Ø88P																									2	2						2						
APS PPB FOR XING HAYES WS ON POLE I																									2	2						2						
VEHICLE SIGNAL Ø45																																						
VEHICLE SIGNAL Ø82																																						
VEHICLE SIGNAL Ø84																																						
VEHICLE SIGNAL Ø87																																						
PED SIGNAL Ø49P																																						
APS PPB FOR XING HAYES WS ON POLE H																																						
VEHICLE SIGNAL Ø61																																						
VEHICLE SIGNAL Ø64																																						
VEHICLE SIGNAL Ø67																																						
PED SIGNAL Ø68P																																						
APS PPB FOR XING VAN NESS SS ON POLE G																																						
#14 NEUTRAL	4		2				2	2																	3	2		3	3	4								
#14 SPARE				3					3	3	3				3	3		6			3				3					3	3							
TOTAL #14 WIRES	15	4	10	26			9	9	17	26	17			2	26	19	2	45		3	6		13	9	23		3	16	17	23	29	3						
#10 WIRES NEUTRAL				1					1	1	1				1	1		2			1				1						2	1						
#4 WIRES (120 V SERVICE)																																						
#8 WIRES (120 V SERVICE)																																						
#6 BSCW (SEE GENERAL NOTE 10)																																						
#8 WIRES (BBS)																																						
#8 GROUND (BBS)																																						

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FOR ORIGINAL SIGNATURES, SEE ET-104.2, REV 0

3	11/10/20	CONFORMED SET: UPDATED WITH RFI #870, #932, #948	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	03/2018	REMOVED BBS; CHANGED CONDUIT 7 TO EXISTING	KK	MV	CL
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

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



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