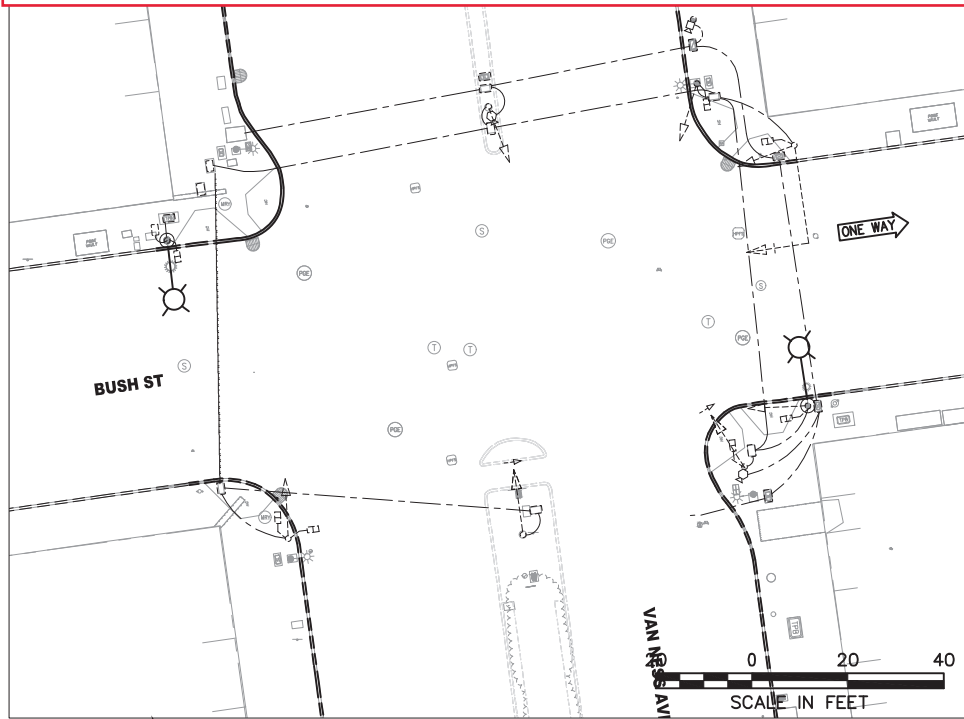


4/20/21 Traffic Signal Switchover

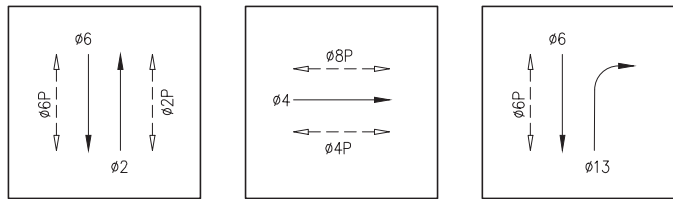
11:27am Dark, 12:00pm Emergency Flash, 12:04pm 3-color. Transit Signals 131 and 133 Removed. APS not installed yet.

Staff

Ken Kwong (TE), Kevin Shue (TE), Manito Velasco (TE), Kristen Nugent (TE), Danny Guevara (Signal Shop), Dennis Verhalen (Signal Shop), Glenn Wilson (CPC), Christian Ponio (Walsh), Wilson Lew (Phoenix)



EXISTING EQUIPMENT



PHASE DIAGRAM

DETAIL NOTES:

- 1 F/I NEW MODEL 342 COMMUNICATIONS HUB CABINET AND MODEL 332 FOUNDATION.
- 2 F/I 2-2" HDPE CONDUIT SETS FROM TYPE 48X PULL BOX TO NEW COMMUNICATIONS HUB AND TRAFFIC SIGNAL CABINET.
- 3 CONNECT NEW VAN NESS INTERCONNECT CONDUITS TO EXISTING TYPE 48X PULL BOX.
- 4 R/S EXISTING COMMUNICATIONS HUB CABINET AND R/C EXISTING HUB CABINET FOUNDATION.
- 5 COORDINATE WITH THE XEROX CORPORATION TO REMOVE RED LIGHT CAMERA SYSTEM.

FOR ORIGINAL SIGNATURES, SEE ET-115.0, REV 0

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
3	11/10/20	CONFORM SET: UPDATED W/RF#706, 932 & FM#346, 391	KK	MV	CL
SK	8/12/19	RF#706 TSB RELOCATED	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	06/2018	ADDED POLE K, ADDED TRANSIT SIGNALS 131 AND 133; ADDED TSB POLE F; UPDATED PHASE DIAGRAM; ADDED FBC SIGNS ON POLES A AND G; UPDATED CONDUITS AND PULLBOXES NEAR POLE I; ADDED TYPE 6X PULLBOX; ADDED NRT EMS	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

APPROVED

for the DIRECTOR OF TRANSPORTATION

MUNI BUS RAPID TRANSIT SYSTEM
VAN NESS CORRIDOR TRANSIT IMPROVEMENT PROJECT

BUSH STREET
TRAFFIC SIGNAL WORK

1289

ET-115.0

ET-204

REVISION

3

I:\T_E_FILES\SPo\Projects\Van Ness BRT\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09 09:2021 - 12:15 pm

BORDER REVISED 11/17/05

F:\T.E. FILES\Spgo\Projects\Van Ness BR\Signal Design\CADD\ CPTB401ETBS - 100% Rev. 3-3-21.dwg KKWONG Tue Mar 09,2021 - 12:15 pm

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		
Ⓐ	SIGNAL, SL & OCS COMBO POLE	30	1400 142	21 24 27 131	3S12" 3S12" 3S12"GUA 3S12"RB	SV-1-T MAS MAS SV-1-T	T T T T		28	1S-COUNT	SP-1	-	STRAIGHT HORZ. SIGNAL MA MOUNT AT 21' HIGH SIGNAL 131 MOUNT AT 18' HIGH APS ① SEE ST PLANS FOR POLE DETAILS "NO RIGHT TURN" BLANK-OUT SIGN TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS
Ⓑ	18-2-100	25		42 44	3S12" 3S12"	SV-1-T MAS	T T		89	1S-COUNT	SP-1	-	APS ①
Ⓒ	EXISTING SL	-		41	3S12"	SV-1-T	T		48	1S-COUNT	SP-1	-	APS ①
Ⓓ	SIGNAL, SL & OCS COMBO POLE	-	1356 138	25	3S12"	SV-1-T	T		29	1S-COUNT	SP-1	-	APS ①
Ⓔ	PPBP POLE	-		-	-	-	-		-	-	-	-	APS ① TSB KEY BOX - CITY TO INSTALL ABOVE APS UNIT
Ⓕ	NOT USED	③		-	-	-	-		-	-	-	-	
Ⓖ	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 TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS
Ⓗ	1-A (10')	-		45	3S12"	TV-1-T	T		49	1S-COUNT	SP-1	-	APS ①
Ⓘ	EXISTING SL	-		-	-	-	-		88	1S-COUNT	SP-1	-	APS ①
Ⓙ	1-A (10')	-		65	3S12"	TV-1-T	T		69	1S-COUNT	SP-1	-	APS ① TSP ②
Ⓚ	1-A (10')	-		133	3S12"RB	TV-1-T	T		-	-	-	-	

MOUNT SIGNAL 27 BETWEEN YELLOW AND GREEN ③

③

MOUNT SIGNAL 67 BETWEEN YELLOW AND GREEN ③
PIP - INSTALL NEW POLE IN PLACE OF EXISTING POLE

*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-115.1, REV 0

3	11/10/20	CONFORMED SET: UPDATED W/RFI #706 & #998; FM#346	KK	MV	CL
SK	8/12/19	RFI #706 TSB RELOCATED	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	06/2018	ADDED POLES F AND K, ADDED TRANSIT SIGNALS 131 AND 133; UPDATED POLES A AND G; ADDED FBC TENON	KK	MV	CL
		NOTE: ADDED NRT EMS			
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

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

BUSH STREET
CONDUCTOR POLE AND EQUIPMENT SCHEDULES

1289

ET-115.1

ET-204

REVISION

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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	29A	30	31	32	33	34	35	36
CONDUIT SIZE (INCH)	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2	1	1	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
		EX		SP	SP						SP	SP					SP						SP				SP	SP	EX				SP	SP			
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 D	2		2						2					2				2																			
VEHICLE SIGNAL Ø41		3	3						3					3				3																			
PED SIGNAL Ø48P		2	2						2					2				2																			
APS PPB FOR XING BUSH ES ON POLE C		2	2						2					2				2																			
VEHICLE SIGNAL Ø42						3		3		3				3				3																			
VEHICLE SIGNAL Ø44						3		3		3				3				3																			
PED SIGNAL Ø89P						2		2		2				2				2																			
APS PPB FOR XING BUSH ES ON POLE B						2		2		2				2				2																			
VEHICLE SIGNAL Ø21							3	3		3				3				3																			
VEHICLE SIGNAL Ø24							3	3		3				3				3																			
VEHICLE SIGNAL Ø27							3	3		3				3				3																			
TRANSIT SIGNAL Ø131							3	3		3				3				3																			
PED SIGNAL Ø28P							2	2		2				2				2																			
APS PPB FOR XING VAN NESS NS ON POLE A							2	2		2				2				2																			
TRANSIT SIGNAL Ø133													3			3			3																		
TSB ON POLE E																																					
APS PPB FOR XING VAN NESS SS ON POLE E																																					
VEHICLE SIGNAL Ø61																																					

3	11/10/20	CONFORMED SET: UPDATED W/RFI #591, #706 AND #932	KK	MV	CL
SK	8/12/19	RFI #706 TSB RELOCATED	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	06/2018	ADDED TRANSIT SIGNALS 131 AND 133. TSB: ADDED CONDUIT RUN 29A & WIRES; CONDUIT RUN 2 IS EXISTING; ADDED NRT EMS	KK	MV	CL
NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
REVISIONS					

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



APPROVED

for the DIRECTOR OF TRANSPORTATION

BUSH STREET CONDUIT & WIRING SCHEDULES

1289

ET-115.2

REVISION

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