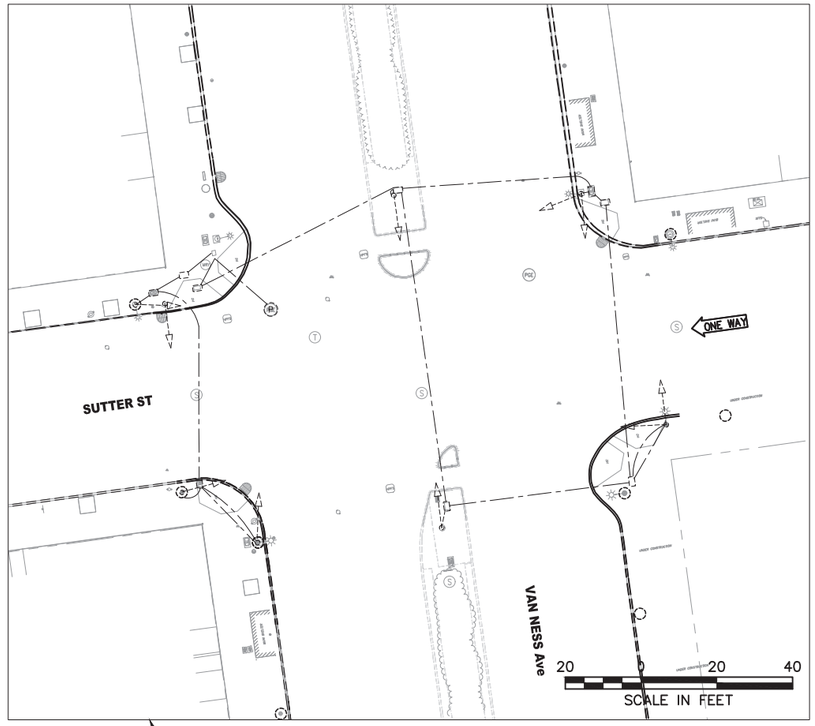
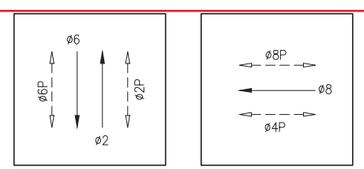


9 | 10 | 11

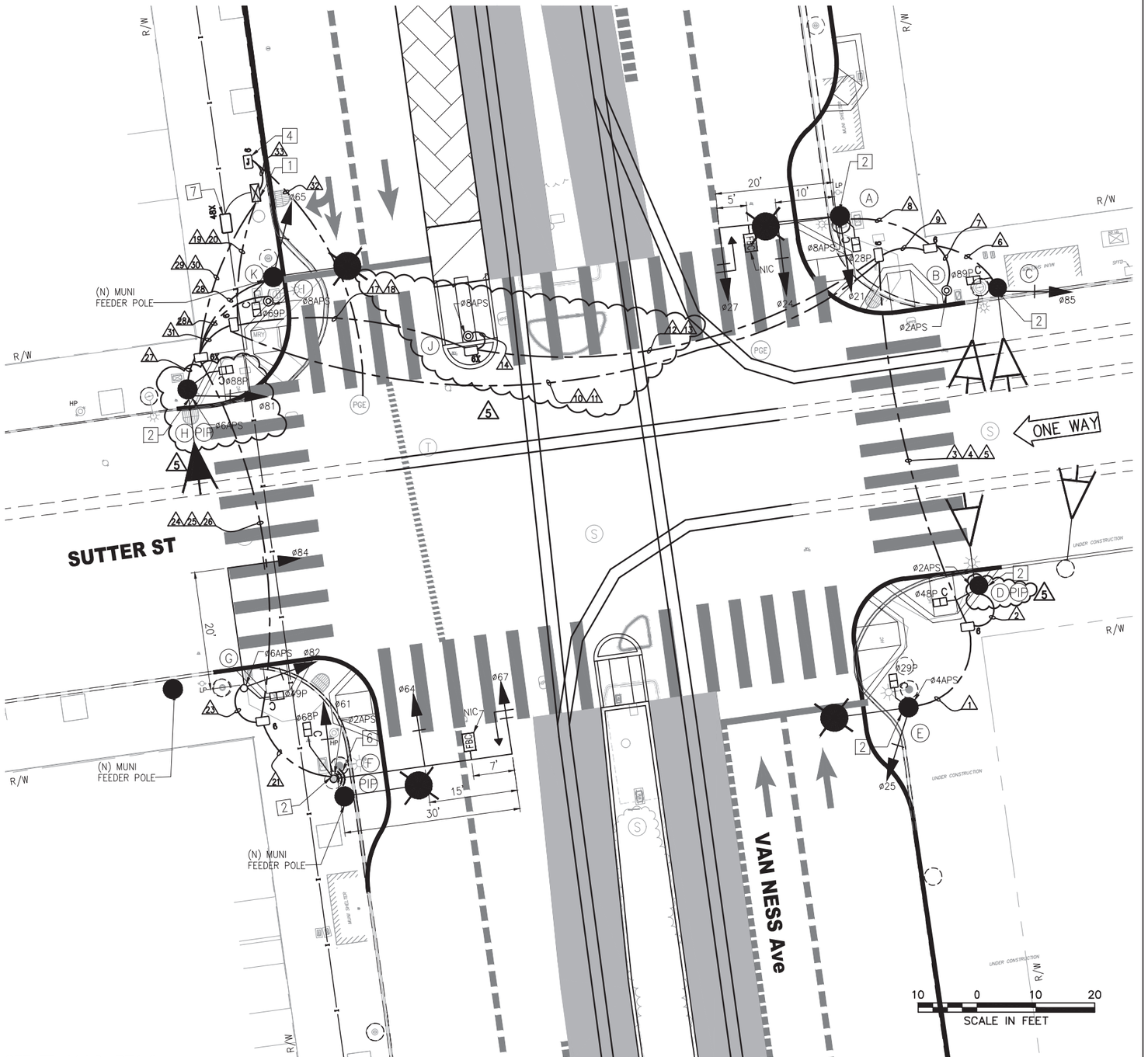
EXISTING EQUIPMENT

5/25/21 Traffic Signal Switchover
9:30am Dark, 9:39am Emergency Flash, 9:49am 3-color. APS not installed yet.

Staff
Ken Kwong (TE), Manito Velasco (TE), Glenn Wilson (CP&C), Phong Nguyen (Signal Shop), Dennis Verhalen (Signal Shop), Cameron Peters (Phoenix), Wilson Lew (Phoenix), Christian Ponio (Walsh)



PHASE DIAGRAM



FOR ORIGINAL SIGNATURES, SEE ET-114.0, REV 0

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
5	11/10/20	CONFORMED SET: UPDATED W/ RFI #932, FMs #342 & 348	KK	MV	CL
4	7/16/19	LATEST DRAWING	KK	MV	CL
3	12/11/18	RFI #559: POLE H IS A STAND-ALONE TYPE 1-A POLE. PIP POLE F PER POLE LAYOUT	KK	MV	CL
2	NOT USED	NOT USED			
1	03/2018	ADDED FBC SIGNS ON POLES A AND F; MOVED APS TO POLE F, ADDED TYPE 6X PULLBOXES	KK	MV	CL

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

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

SUTTER STREET
TRAFFIC SIGNAL WORK

1289

ET-114.0
ET-204

REVISION 5

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POLE AND EQUIPMENT SCHEDULE

POLE NO.	POLE STANDARD TYPE	POLE STANDARD SIG. MA (FEET)	POLE STANDARD OCS / SL	VEHICLE SIGNAL No.	VEHICLE SIGNAL TYPE	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL VISORS	VEHICLE SIGNAL LOUVERS	PEDESTRIAN SIGNAL No.	PEDESTRIAN SIGNAL TYPE	PEDESTRIAN SIGNAL MOUNTING	HPS LUMINAIRE (WATTS)	SPECIAL REQUIREMENTS
Ⓐ	SIGNAL, SL & OCS COMBO POLE	20	1304 / 132	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 APS ◇1 TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS
Ⓑ	PPBP POLE	–		–	–	–	–		–	–	–	–	APS ◇1
Ⓒ	SIGNAL, SL & OCS COMBO POLE	–	1288	85	3S12"	SV-1-T	T		89	1S-COUNT	SP-1	–	
Ⓓ	SIGNAL, SL & OCS COMBO POLE △5	–		–	–	–	–		48	1S-COUNT	SP-1 △5	–	APS ◇1 PIP – INSTALL NEW POLE IN PLACE OF EXISTING POLE △5
Ⓔ	SIGNAL, SL & OCS COMBO POLE	–	1242 / 128	25	3S12"	SV-1-T	T		29	1S-COUNT	SP-1	–	APS ◇1
Ⓕ	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 TSP ◇2 △5 TENON FOR FUTURE FBC MIDWAY BETWEEN MAS SIGNALS PIP – INSTALL NEW POLE IN PLACE OF EXISTING POLE
Ⓖ	16-2-100	20		82 84	3S12" 3S12"	SV-1-T MAS	T T		49	1S-COUNT	SP-1	–	SIGNAL 82 MOUNT AT 13' HIGH APS ◇1
Ⓗ	SIGNAL, SL & OCS COMBO POLE △5	– △5	1300A	81	3S12"	SV-1-T △5	T		88	1S-COUNT	SP-1	–	PIP – INSTALL NEW POLE IN PLACE OF EXISTING POLE MOUNT SIGNAL 81 AT 13' HIGH △5 APS ◇1
Ⓘ	SIGNAL, SL & OCS COMBO POLE (FEEDER)	–	1301B / 131	65	3S12"	SV-1-T	T		69	1S-COUNT	SP-1-T	–	△5 EXTERNAL CONDUIT
Ⓙ	PPBP POLE	–		–	–	–	–		–	–	–	–	APS ◇1
Ⓚ	PPBP POLE	–		–	–	–	–		–	–	–	–	APS ◇1

MOUNT SIGNAL 27 BETWEEN YELLOW AND GREEN △5

MOUNT SIGNAL 67 BETWEEN YELLOW AND GREEN △5

*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.

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
5	11/10/20	CONFORMED SET AND UPDATED WITH RFI#908, #998 & FM#342, #348	KK	MV	CL
4	7/18/19	LATEST DRAWING	KK	MV	CL
3	12/11/18	RFI #559: POLE H IS A STAND-ALONE TYPE 1-A POLE.	KK	MV	CL
		PIP POLE F PER POLE LAYOUT			
2	NOT USED	NOT USED			
1	03/2018	UPDATED POLE STANDARD AND SPECIAL REQUIREMENT;	KK	MV	CL
		UPDATED POLES A & F, AND RELOCATED APS ON POLE			
		F; ADDED FBC TENON NOTE			

REVISIONS

FOR ORIGINAL SIGNATURES, SEE ET-114.1, 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

1289

SUTTER STREET
CONDUCTOR POLE AND EQUIPMENT SCHEDULES

ET-114.1
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REVISION 5

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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	28A	29	30	31	32	33
CONDUIT SIZE (INCH)	2	2	2	2	2	2	1	2	3	2	2	2	2	1	2	2	2	2	3	2	2	1	2	2	2	2	2	2	1	3	2	2	3	2
				SP	SP							SP	SP				3P	SP		SP								GRS			SP	SP			
VEHICLE SIGNAL Ø25	3		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															
PED SIGNAL Ø48P		2	2							2					2				2															
APS PPB FOR XING SUTTER ES ON POLE D		2	2							2					2				2															
VEHICLE SIGNAL Ø85						3			3		3					3			3															
PED SIGNAL Ø89P						2			2		2					2			2															
APS PPB FOR XING SUTTER 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															
PED SIGNAL Ø28P								2	2		2					2			2															
APS PPB FOR XING VAN NESS NS ON POLE A								2	2		2					2			2															
APS PPB FOR XING VAN NESS NS ON POLE (J) 3														2		2	2		2															
VEHICLE SIGNAL Ø61																					3			3						3				
VEHICLE SIGNAL Ø64																					3			3						3				
VEHICLE SIGNAL Ø67																					3			3						3				
PED SIGNAL Ø68P																					2			2						2				
APS PPB FOR XING VAN NESS SS ON POLE F																					2	2		2						2				
VEHICLE SIGNAL Ø82																							3	3						3				
VEHICLE SIGNAL Ø84																							3	3						3				
PED SIGNAL Ø49P																							2	2						2				
APS PPB FOR XING SUTTER WS ON POLE G																							2	2						2				
VEHICLE SIGNAL Ø81																											3			3				
PED SIGNAL Ø88P																											2			2				
APS PPB FOR XING SUTTER WS ON POLE H																											2			2				
VEHICLE SIGNAL Ø65																												3		3				
PED SIGNAL Ø69P																												2		2				
APS PPB FOR XING VAN NESS NS ON POLE K																													2	2				
#14 NEUTRAL	2	1				2		4													4		3				2	2						
#14 SPARE			3						3	3	3				3	3			6					3						3				
TOTAL #14 WIRES	9	5	14			7	2	17	23	14	23			2	4	25	2		39		17	2	13	26			9	7	2	40				
#10 WIRES NEUTRAL			1						1	1	1				1	1			2					1						2				
3 #4 WIRES (120 V SERVICE)																															3	3 2		
#8 WIRES (120 V SERVICE)																																		
#6 BSCW (SEE GENERAL NOTE 10)																																		
TSP RECEIVER (10 CONDUCTOR CABLE)																					1			1						1				

FOR ORIGINAL SIGNATURES, SEE ET-114.2, REV 0

NO.	DATE	DESCRIPTION	REVISED	CHECKED	APPROVED
3	11/10/20	CONFORM SET & UPDATED W/RFI#535,591,932;FM#342,348	KK	MV	CL
2	7/18/19	LATEST DRAWING	KK	MV	CL
1	3/2018	RELOCATED APS TO POLE F	KK	MV	CL

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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SUTTER STREET
CONDUIT & WIRING SCHEDULES

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ET-204

REVISION 3

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