

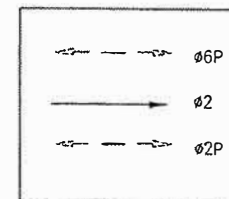
NO NEED TO INSTALL THIS PB PER CONVERSATION W/ BILL LAY ON 3-18-03. GD

POLE AND EQUIPMENT SCHEDULE

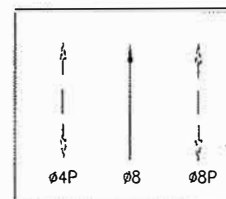
POLE No.	TYPE OF POLE	LUMINAIRE (HPS) VOLTAGE/ WATTS	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	CITY STANDARD STREET LIGHT W/ 6' LUMINAIRE ARM	120V/200W	81	3S8" 3S12"	SV-1-T @ 13'	T		88	1S-COUNT	SP-1	
②	16-1-70 20' MAST ARM		22 24	3S8" 3S12"	SV-1-T MAS	T		69	1S-COUNT	SP-1	BACKPLATE
③	CITY STANDARD STREET LIGHT W/ 6' LUMINAIRE ARM	120V/200W	21	3S8" 3S12"	SV-1-T SV-1	T		28 89	1S-COUNT 1S-COUNT	SP-1 (22") SP-1-SF (12") SP-2-SF	
④	1-A (7')							29 48	1S-COUNT 1S-COUNT	TP-2-T	
⑤	1-A (13')		82	3S8" 3S12"	TV-1 TV-1-T	T		49 68	1S-COUNT 1S-COUNT	SP-1 (22") SP-1-SF (12")	

SWITCH ON: 3-25-04 @ 9:40 AM (3 COLOR)

PHASE DIAGRAM:



PHASES 2, 2P & 6P



PHASES 8, 4P & 8P

PHASE SEQUENCE:

G	Y	R				BUSH ST.
R		G	Y	R		LEAVENWORTH ST
RH		WM	FRH	RH		PED XING BUSH ST
WM	FRH		RH			PED XING LEAVENWORTH ST

NEW SERVICE POINT ACTIVATED ON 11/8/06

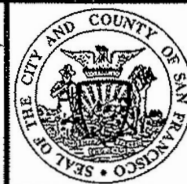
DETAIL NOTES:

- A4 R/C EX WIRING AND CONDUIT. REPAIR SIDEWALK TO MATCH EX.
- A5 EX CONDUIT AND WIRING. R/C EX WIRING. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12" DEPTH. CAP END(S). ABANDON CONDUIT IN PLACE.
- A7 R/C EX TS WIRING. 12C CABLE TO REMAIN.
- B2 F/I WITH INTEGRAL BALLAST AND PHOTOELECTRIC CONTROL. F/I FUSE AND FUSE HOLDERS PER SPDWSF FILE #49,092.
- B3 SPLICE NEW SL WIRING TO SERVICE WIRES TO SUPPORT NEW SL(S).

- I1 SPLICE EX 12/C AS REQUIRED TO MAINTAIN INTERCONNECT SYSTEM.
- L5 CONTRACTOR SHALL COORDINATE WITH WALLY SUN OF HETCH HETCHY AT (415) 554-1873 TO DISCONNECT EX PG&E IC SERVICE WIRING. R/C EXISTING WIRING. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12" DEPTH. CAP END(S). ABANDON CONDUIT IN PLACE.
- L6 F/I IN-LINE FUSE HOLDER W/ 40A FUSE FOR IC SERVICE.
- L7 COORDINATE WITH PG&E VIA WALLY SUN OF HETCH HETCHY AT (415) 554-1873 FOR CONNECTION WORK.
- P CONTRACTOR SHALL COORDINATE WITH RAY YAMAGISHI OF BLHP @ 554-0728 TO DISCONNECT EX SL SERVICE WIRING. R/C EX WIRING AND CONDUIT. RESTORE SIDEWALK AND/OR PAVEMENT TO MATCH EX OR AS REQUIRED.

NOTE:
THIS AUTOCAD DRAWING HAS BEEN REVISED AND REPLOTED SUBSEQUENT TO INTERNAL ENGINEERING APPROVAL AND SIGN-OFF. FOR THOSE SIGNATURES, SEE THE DRAWING PLOTTED AND ISSUED PREVIOUSLY DURING BIDDING. THE SIGNED DRAWING REMAINS VALID EXCEPT FOR THE CHANGES ONLY AS CLEARLY MARKED ON THIS DRAWING AND ISSUED UNDER THIS LATEST REVISION NUMBER AS SHOWN IN THE TABLE OF REVISIONS LOCATED AT THE LOWER LEFT CORNER OF THE DRAWING. ALL ISSUED REVISIONS SUBSEQUENT TO PREVIOUSLY PLOTTED DRAWING DURING BIDDING REMAIN VALID UNLESS SUPERSEDED BY LATER ISSUED REVISIONS. CHECK ALL ISSUED REVISIONS OF THIS DRAWING.

REFERENCE INFORMATION & FILE NO. OF SURVEYS			
4	12/1/21	UPGRADE 22, 61 & 82 TO 12" (SRC2021-222)	C. Leung M. Velasco
3	10/15/21	UPGRADE 21 TO 12-INCH PER FIELD	D. Young G. deLeon
12/02	PCO-3: VARIOUS	TP	BC
10/02	PCO-1: NEW SERVICE	TP	BC
NO.	DATE	DESCRIPTION	BY APP.
TABLE OF REVISIONS			
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION			



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO



DESIGNED: DATE:	APPROVED:
GD/JP/TP 1/02	
DRAWN: DATE:	SECTION MANAGER DATE:
JN/JS 1/02	
CHECKED: DATE:	DIVISION MANAGER DATE:
DSB/STL 1/02	
	CITY ENGINEER DATE:

SCALE:
1" = 10'
SHEET OF SHEETS
45 OF 73

BUSH STREET TRAFFIC SIGNAL UPGRADE

BUSH ST AND LEAVENWORTH ST



SPECIFICATION NO.	0286J
DRAWING NO.	E-20.0
FILE NO.	78237
REV. NO.	2

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
CONDUIT SIZE (INCH)	2	2	2	2	2	2	2	2	2	2	3	2	3	2	2	3			
CONDUIT SIZE (mm)	53	53	53	53	53	53	53	53	53	53	77	53	77	53	53	77			
NOTES														SP	Q	Q1	NOT USED		
PED. SIGNAL 29	2	2		2							2								
PED. SIGNAL 48	2	2		2							2								
VEH. SIGNAL 21			3	3							3								
PED. SIGNAL 28			2	2							2								
PED. SIGNAL 89			2	2							2								
VEH. SIGNAL 22						3					3								
VEH. SIGNAL 24						3					3								
PED. SIGNAL 69					2						2								
PED. SIGNAL 49							2	2					2						
PED. SIGNAL 68							2	2					2						
VEH. SIGNAL 82							3	3					3						
VEH. SIGNAL 81									3				3						
PED. SIGNAL 88									2				2						
SIGNAL																			
SIGNAL																			
#14 NEUTRAL	1		3			3	3		2										
#14 SPARE		3		3				3			3		3						
TOTAL #14 WIRES	5	7	10	14		11	10	10	7		22		15						
#10 WIRES NEUTRAL		1		2				1			2		1						
#10 WIRES STREET LIGHT			2						2										
#8 WIRES STREET LIGHT					2				2								2		
#8 WIRES (120 V SERVICE)											2						2		
#6 BSCW											1						1		
INTERCONNECT FIBER-OPTIC CABLE W/ 12 STRANDS																1			
INTERCONNECT-FIBER-OPTIC CABLE W/ 144 STRANDS																			

NOTE:
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DETAIL NOTES:

- Q F/I 4-2" POLYETHYLENE SCHEDULE 80 CONDUIT WITH 3/8" PULL TAPE IN EACH CONDUIT. F/I FIBER-OPTIC CABLE WITH 144 STRANDS IN ONE OF THE CONDUITS.
- Q1 F/I 3" PVC SCHEDULE 80 CONDUIT WITH 1/4" PULL ROPE. F/I FIBER-OPTIC CABLE WITH 12 STRANDS (SPliced FROM 144 STRANDS).

REFERENCE INFORMATION & FILE NO. OF SURVEYS			BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO		DESIGNED: DATE: JP/TP 1/02	APPROVED: _____	SCALE: NONE	SPECIFICATION NO. 0286J
TABLE OF REVISIONS					DRAWN: DATE: JP/JS 1/02	SECTION MANAGER: _____	SHEET OF SHEETS 46 OF 73	
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION					CHECKED: DATE: DS8/STL 1/02	DIVISION MANAGER: _____		FILE NO. 78238
					CITY ENGINEER: _____			REV. NO. 2