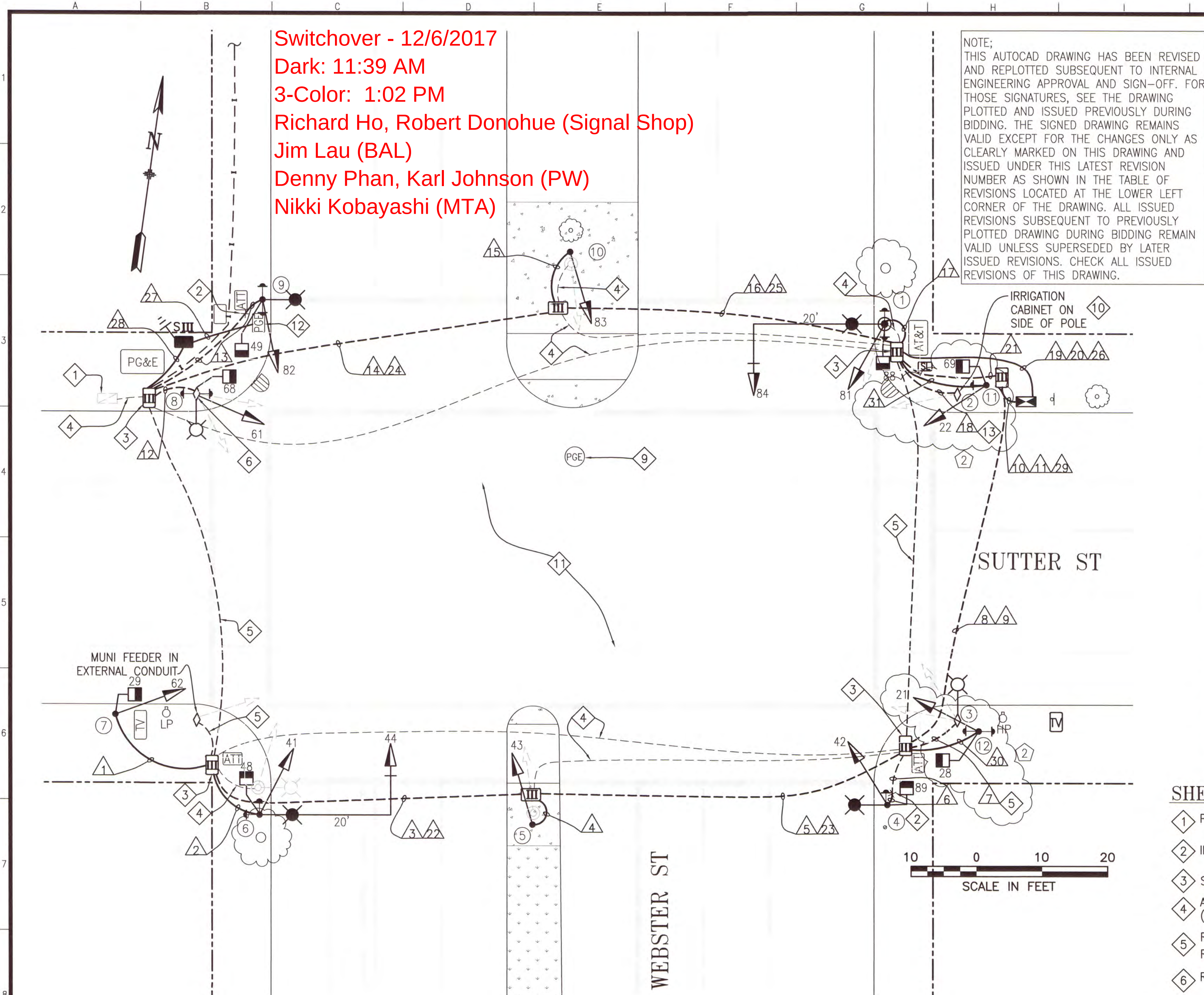




Switchover - 12/6/2017
Dark: 11:39 AM
3-Color: 1:02 PM
Richard Ho, Robert Donohue (Signal Shop)
Jim Lau (BAL)
Denny Phan, Karl Johnson (PW)
Nikki Kobayashi (MTA)

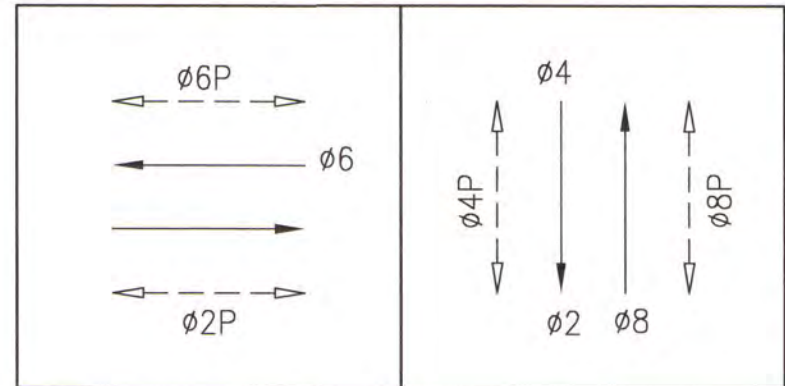
NOTE;
THIS AUTOCAD DRAWING HAS BEEN REVISED
AND REPLOTED SUBSEQUENT TO INTERNAL
ENGINEERING APPROVAL AND SIGN-OFF. FOR
THOSE SIGNATURES, SEE THE DRAWING
PLOTTED AND ISSUED PREVIOUSLY DURING
BIDDING. THE SIGNED DRAWING REMAINS
VALID EXCEPT FOR THE CHANGES ONLY AS
CLEARLY MARKED ON THIS DRAWING AND
ISSUED 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VALID UNLESS SUPERSEDED BY LATER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.

POLE AND EQUIPMENT SCHEDULE											
POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL				PEDESTRIAN SIGNAL			REMARKS	
			No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE		MOUNTING
①	17-2-100 WITH 20' MA AND 6' LA	LED 106W	81 84	3S12" 3S12"	SV-1-T MAS	T T		88	1S-COUNT	SP-1	2 x APS-2W BACKPLATE PPB
②	MUNI POLE										
③	MUNI POLE										
④	CITY STANDARD SL	LED 106W	42	3S12"	SV-1-T	T		89	1S-COUNT	SP-1	APS-2W
⑤	1-A (10')		43	3S12"	TV-1-T	T					
⑥	17-2-100 WITH 20' MA AND 6' LA	LED 106W	41 44	3S12" 3S12"	SV-1-T MAS	T T		48	1S-COUNT	SP-1	2 x APS-2W BACKPLATE
⑦	1-A (10')		62	3S12"	TV-1-T	T		29	1S-COUNT	SP-1	APS-2W
⑧	MUNI POLE		61	3S12"	SV-1-T	T		68	1S-COUNT	SP-1	APS-2W PPB
⑨	CITY STANDARD SL	LED 106W	82	3S12"	SV-1-T	T		49	1S-COUNT	SP-1	APS-2W PPB
⑩	1-A (10')		83	3S12"	TV-1-T	T					
⑪	1-A (10')		22	3S12"	TV-1-T	T		69	1S-COUNT	SP-1	APS-2W
⑫	1-A (10')		21	3S12"	TV-1-T	T		28	1S-COUNT	SP-1	APS-2W PPB

SHEET NOTES:

- ① PULL BACK 12C CABLE TO NEAREST PULL BOX, SPLICE EXISTING 12C AND EXTEND TO NEW IC PER CONDUIT AND WIRING SCHEDULE
- ② INTERCEPT (E) 2" PVC CONDUIT AND BRING INTO NEW CITY STANDARD STREET LIGHT POLE
- ③ SPLICE NEW STREET LIGHT WIRING TO EXISTING STREET LIGHT WIRING TO MAINTAIN STREET LIGHT CIRCUIT
- ④ ABANDON (E) CONDUIT AND WIRING. CUT (E) CONDUIT AND WIRING TO PULLBOX WALL AND CAP ENDS. PRIOR TO ABANDONING OF (E) CABLES IN (E) CONDUIT, FIELD VERIFY AND MAINTAIN INTERCONNECT, AS WELL AS SERVICES TO STREETLIGHTS AND TRAFFIC CONTROLLER
- ⑤ REMOVE (E) TRAFFIC SIGNAL CABLES EXCEPT SERVICE TO STREETLIGHTS AND INTERCONNECT CABLES WHERE APPLICABLE. PRIOR TO REMOVAL OF (E) CABLES IN (E) CONDUIT, FIELD VERIFY AND MAINTAIN (E) SERVICES TO STREETLIGHTS AND INTERCONNECT
- ⑥ R/C (E) EXTERNAL ABANDONED MUNI FEEDER CONDUIT AND CABLE TO ONE FOOT BELOW GRADE
- ⑦ CONTRACTOR TO PROVIDE WIRING, CITY FORCES TO PROVIDE APS & PPB BUTTONS ON POLES AS SHOWN
- ⑧ INSTALL CITY FURNISHED ONE SECTION LED PEDESTRIAN COUNTDOWN SIGNAL MODULE IN CONTRACTOR FURNISHED ONE SECTION PEDESTRIAN SIGNAL HOUSING
- ⑨ COORDINATE WITH PG&E THROUGH SFPUC FOR DEACTIVATION OF SERVICE CONNECTION WORK TO BE COMPLETED AFTER ACTIVATION OF NEW SERVICE POINT. TEN WORKING DAYS NOTICE IS REQUIRED
- ⑩ PULL BACK EXISTING IRRIGATION WIRES TO NEAREST PULLBOX. R/C EXISTING EXTERNAL ABANDONED IRRIGATION CONDUITS TO ONE FOOT BELOW GRADE. R/C ABANDONED IRRIGATION CABINET ON SIDE OF POLE.
- ⑪ MAINTAIN EXISTING TROLLEY WIRES
- ⑫ CONTROLLER SERVICE POINT IS A PG&E SECONDARY BOX LOCATED NORTH OF THE NORTHWEST CORNER OF SUTTER AND WEBSTER STREETS. COORDINATE WITH PG&E THROUGH SFPUC FOR ACTIVATION OF SERVICE POINT.
- ⑬ REMOVE (E) TRAFFIC SIGNAL CABLES.

PHASE DIAGRAM

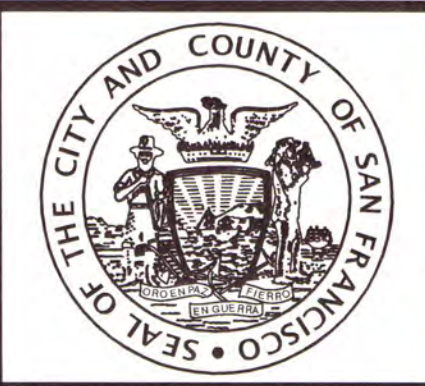


PHASE SEQUENCE

G		Y	R		SUTTER ST EB & WB (ø2 & ø6)	
R			G	Y	R	WEBSTER ST SB & NB (ø4 & ø8)
WM	FRH	RH		PEDS XING WEBSTER ST SS & NS (ø2P & ø6P)		
RH		WM	FRH	PEDS XING SUTTER ST WS & ES (ø4P & ø8P)		

②	9/2017	PCO 4-INSTALL 2 NEW 1-A POLES FOR TRAFFIC SIGNALS	CMF	PT
①	5/2017	PCO 1-REVISED PG&E SERVICE POINT CONNECTION	NL	SL
NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



DESIGN & ENGINEERING
CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr:	PHILIP THWIN	Date:	
Deputy Division Mgr:	IQBALBHAJ DHAPA		
Division Mgr:	PATRICK RIVERA		

DESIGNED:	DATE:
DY/NL	10/2016
DRAWN:	DATE:
DY/NL	10/2016
CHECKED:	DATE:
GD/SL	10/2016



SCALE:
AS SHOWN
SHEET OF SHEETS
19 OF 23

WEBSTER STREET
PEDESTRIAN COUNTDOWN SIGNAL UPGRADE

SUTTER STREET AND WEBSTER STREET
TRAFFIC SIGNAL WORK

CONTRACT NO.	2785J
DRAWING NO.	E-6.0
FILE NO.	108,883
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	20	21	22	23	24	25	26	27	28	29	30	31					
CONDUIT SIZE (INCH)		2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2
				EX		EX		EX	EX	EX		SP	EX		EX		EX		EX			SP	SP	SP	EX	EX				SP							
NOTES		GRS				GRS	GRS						GRS				GRS					EX	EX	EX													
	VEHICLE SIGNAL 62	3		3		3			3		3																										
	PED SIGNAL 29	2		2		2			2		2																										
	VEHICLE SIGNAL 41		3	3		3			3		3																										
	VEHICLE SIGNAL 44		3	3		3			3		3																										
	PED SIGNAL 48		2	2		2			2		2																										
	APS PPB FOR XING SUTTER ON POLE 6		2	2		2			2		2																										
	APS PPB FOR XING WEBSTER ON POLE 6		2	2		2			2		2																										
	VEHICLE SIGNAL 43				3	3			3		3																										
	VEHICLE SIGNAL 42						3			3	3																										
	PED SIGNAL 89						2			2	2																										
	APS PPB FOR XING WEBSTER ON POLE 4						2			2	2																										
	VEHICLE SIGNAL 21								3		3																										
	PED SIGNAL 28								2		2																										
	APS PPB & PPB FOR XING SUTTER ON POLE 3								2		2																										
	VEHICLE SIGNAL 61											3		3		3				3																	
	PED SIGNAL 68											2		2		2				2																	
	APS PPB & PPB FOR XING SUTTER ON POLE 8											2		2		2				2																	
	VEHICLE SIGNAL 82												3	3		3				3																	
	PED SIGNAL 49												2	2		2				2																	
	APS PPB & PPB FOR XING WEBSTER ON POLE 9												2	2		2				2																	
	VEHICLE SIGNAL 83													3	3					3																	
	VEHICLE SIGNAL 81																	3		3																	
	VEHICLE SIGNAL 84																	3		3																	
	PED SIGNAL 88																	2		2																	
	APS PPB & PPB FOR XING WEBSTER ON POLE 1																	2		2																	
	APS PPB XING SUTTER ON POLE 2																			2																	
	VEHICLE SIGNAL 22																				2																
	PED SIGNAL 69																				2																
	#14 NEUTRAL	2	3		1		2						2	2		1		3																			
	#14 SPARE			3		3			3		3				3		3																				
	TOTAL #14 WIRES	7	15	20	4	23	9		23	14	37		9	9	17	4	20	13		37																	
	#10 WIRES NEUTRAL			1		2			2	1	3				1		2		3																		
	#10 WIRES STREET LIGHT		2				2							2				2																			
	#8 WIRES STREET LIGHT																																				
	#8 WIRES (120 V SERVICE)																				2				2	2		3	2								
	#6 BSCW (SEE SHEET NOTE 1)																																				
	INTERCONNECT 12C CABLE																									1	1	1									