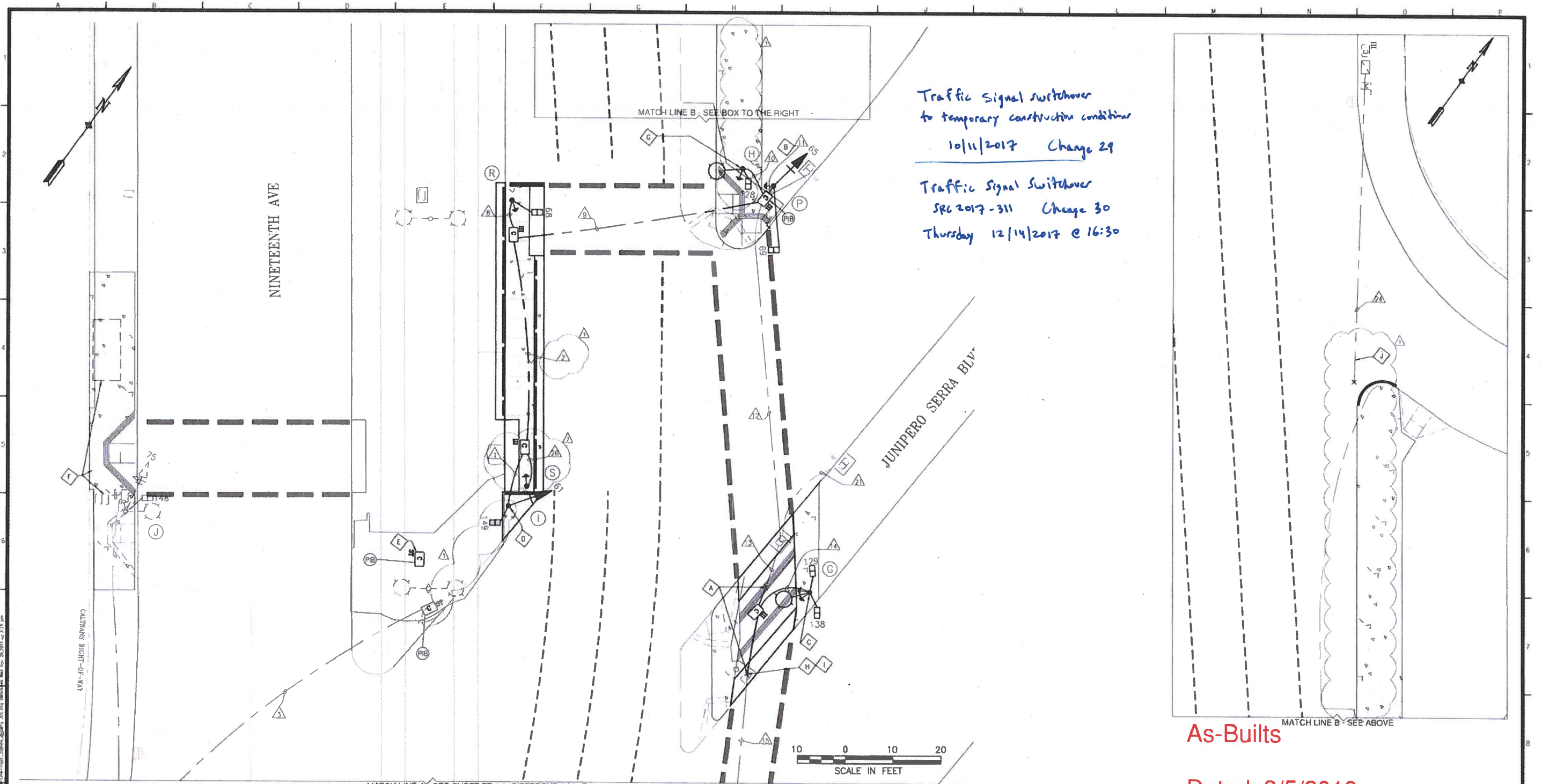
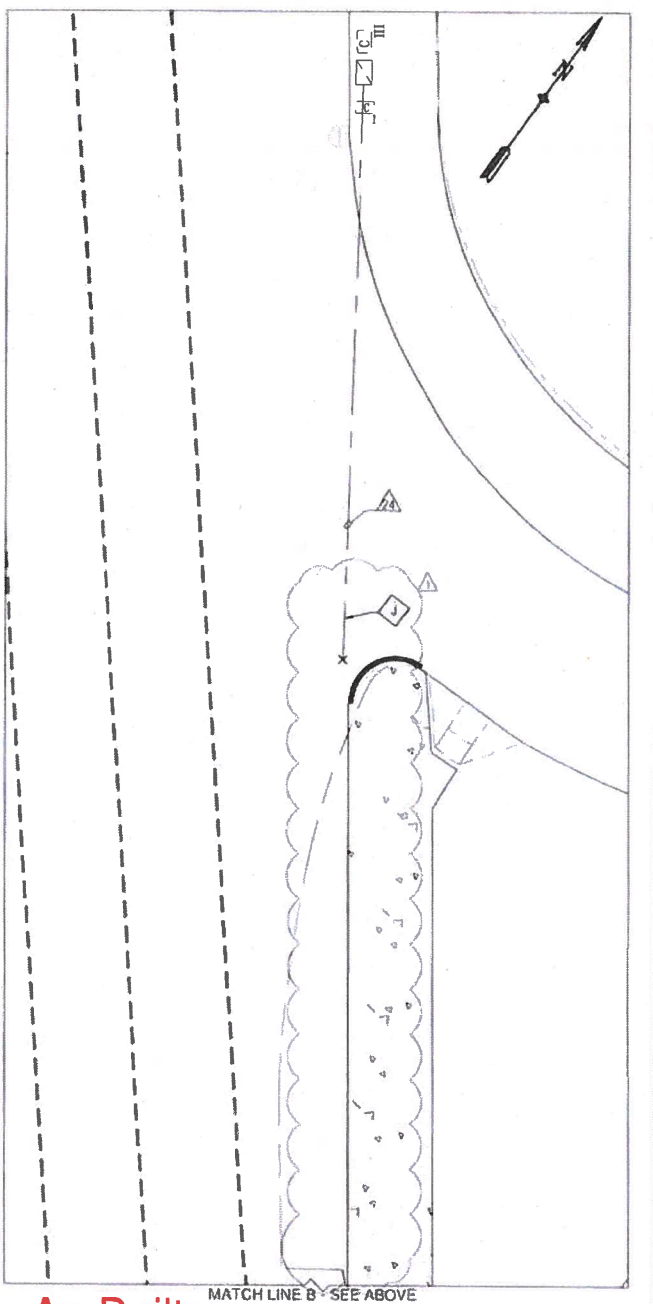




Traffic Signal switchover
to temporary construction conditions
10/11/2017 Change 29

Traffic Signal Switchover
SPC 2017-311 Change 30
Thursday 12/14/2017 @ 16:30



As-Built

Dated: 3/5/2018
Signed: Dominic Creedon
Phoenix Electric Company

SHEET NOTES

- A REMOVE (E) WIRES TO NEAREST PULLBOX OR SPLICE POINT. REPULL WIRES AFTER CONDUIT MODIFICATION.
- B DO NOT SPLICE WIRES. IF EXISTING #65 OR #69 WIRES ARE NOT LONG ENOUGH, R/C EXISTING WIRES AND RUN NEW WIRES DIRECTLY TO THE CABINET.
- C REUSE (E) SL POLE ON (N) FOUNDATION. RUN NEW #129 AND #138 WIRES DIRECTLY TO CABINET (R/C EXISTING WIRES). DO NOT SPLICE WIRES.
- D DO NOT SPLICE WIRES. R/C EXISTING WIRES, AND RUN NEW #61 AND #149 WIRES DIRECTLY TO CABINET.
- E NEW LID FOR TRAFFIC RATED PULLBOX SHALL BE LABELED "STREET LIGHT".
- F COORDINATE WITH CLEARCHANNEL THROUGH THE ENGINEER TO RELOCATE EXISTING BUS SHELTER AND RESTORE THE POWER AND DATA CONNECTION.
- G INTERCEPT AND MODIFY EXISTING STREET LIGHT CONDUIT AND CIRCUIT, AND EXTEND TO NEW STREET LIGHT/TRAFFIC SIGNAL PULLBOX.
- H R/C EXISTING PULLBOX. INTERCEPT EXISTING CONDUIT AND COUPLE TO NEW CONDUIT.
- I INTERCEPT AND MODIFY EXISTING STREET LIGHT CIRCUIT AND EXTEND AND RECONNECT TO NEW STREET LIGHT ON POLE.
- J ABANDON (E) CONDUIT. CUT CABLE AND STORE SLACK IN NEAREST PULLBOX OR CABINET.
- K REUSE (E) SL POLE ON (N) FOUNDATION. RECONNECT NEW STREET LIGHT TO EXISTING STREET LIGHT CIRCUIT.

NO.	DATE	DESCRIPTION	BY	APP
2	11/29/17	ADD NEW PPB POLE S AND CONDUIT 26.	DNM	MV
1	5/15/17	REMOVE UNNEEDED NEW CONDUIT RUNS	DNM	MV

TABLE OF REVISIONS
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS



SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
TRANSPORTATION ENGINEERING
CITY AND COUNTY OF SAN FRANCISCO

DESIGNED: DATE: 4/10/2015	APPROVED: 03/07/17
DRAWN: DATE: 4/10/2015	SECTION ENGINEER: DATE:
CHECKED: DATE: 4/10/2015	CITY TRAFFIC ENGINEER: DATE:

19TH AVENUE AND JUNIPERO SERRA BOULEVARD INTERSECTION IMPROVEMENT PROJECT
NINETEENTH AVE AND JUNIPERO SERRA BLVD
TRAFFIC SIGNAL MODIFICATION
NEW EQUIPMENT

CONTRACT NO.
DRAWING NO. ET-1.1
FILE NO.
REV NO. 1

CONDUIT AND WIRING SCHEDULE (FURNISH AND INSTALL CONDUIT AND WIRES)																										CONTRACT WORK IN BOLD									
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								
CONDUIT SIZE (INCH)		2	2-2	2	2 1/2	3	3	3-3	2	2-2	2	2	2	2	2	3	2-3	2-3	2-3	2-3	1 1/2				2	3-3	2								
		PVC	PVC	EX	EX	EX	EX	EX	PVC	PVC	PVC	PVC	EX	EX	PVC	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX								
NOTES																																			
PED SIGNAL 129																2	2	2	2	2	2														
PPB 129																2	2	2	2	2	2														
PED SIGNAL 138																2	2	2	2	2	2														
PPB 138																2	2	2	2	2	2														
VEHICLE SIGNAL 65												3	3	3		3	3	3	3	3															
PED SIGNAL 69												2	2	2		2	2	2	2	2															
PPB 69												2	2	2		2	2	2	2	2															
PED SIGNAL 128											2		2	2		2	2	2	2	2															
PPB 128											2		2	2		2	2	2	2	2															
PED SIGNAL 68									2	2			2	2		2	2	2	2	2															
PPB 68									2	2			2	2		2	2	2	2	2															
VEHICLE SIGNAL 61		3	3						3			3	3		3	3	3	3	3	3															
PED SIGNAL 149		2	2						2			2	2		2	2	2	2	2	2															
PPB 149		X	2						2			2	2		2	2	2	2	2	2															
NOT ALL SIGNALS AND CONDUCTORS ARE LISTED HERE.																																			

POLE AND EQUIPMENT SCHEDULE							CONTRACT WORK IN BOLD			
POLE No.	TYPE OF POLE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
		No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
(A)	(E) 1-A (10')	41	3S12*TA	TV-1-T	T	BP	29	1S-COUNT	SP-1-T	APS
(B)	(E) 1-A (10')	43	3S12*PV	TV-1-T	T		20 20	1S-COUNT 1S-COUNT	SP-2-T	APS APS
(C)	(E) 15TS STREET LIGHT POLE	85	3S12"	SV-1-T	T	BP	28	1S-COUNT	SP-1-T	APS
(D)	(E) 16-2-100 MAST ARM POLE	81 84	3S12" 3S12"	SV-1-T MAS	T T	BP BP				AUTOSCOPE
(E)	(E) 19-3-100 MAST ARM POLE W/ STREETLIGHT	21 23 24	3S12" 3S12" 3S12"	SV-1-T MAS MAS	T T T	BP BP BP				AUTOSCOPE
(F)	(E) 15TS STREET LIGHT POLE						139	1S-COUNT	SP-1-T	APS
(G)	(E) 15TS STREET LIGHT POLE						129 138	1S-COUNT 1S-COUNT	SP-2-T	APS APS
(H)	(E) 19A-1-100 STREET LIGHT POLE						128	1S-COUNT	SP-1-T	APS
(I)	(N) 1-A (10')	61	3S12"	TV-1-T	T	BP	149	1S-COUNT	SP-1-T	APS
(J)	(E) 15TS STREET LIGHT POLE	75	3S12*RA	SV-1-T	T	BP	148	1S-COUNT	SP-1-T	APS
(K)	(E) 28-5-100 MAST ARM POLE	71 74 44	3S12*RA 3S12*RA 3S12*TA	SV-1-T MAS MAS	T T T	BP BP BP				AUTOSCOPE
(L)	(E) 61A-5-100 MAST ARM POLE W/ STREETLIGHT	63 64	3S12" 3S12"	MAS MAS	T T	BP BP				AUTOSCOPE
(M)	(E) STREET LIGHT POLE									
(N)	(E) 1-A (10')	26	3S12"	TV-1-T	T					
(O)	R/C EXISTING PPB POST									
(P)	(N) 1-A (10')	65	3S12"	TV-1-T	T	BP	69	1S-COUNT	SP-1-T	APS
(Q)	(E) 15TS STREET LIGHT POLE									
(R)	(N) 1-A (7')						68	1S-COUNT	TP-1-T	APS
(S)	(N) PPB POLE									APS

As-Built

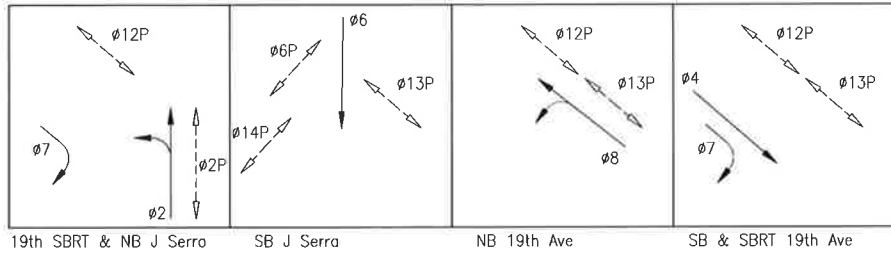
Dated: 3/5/2018
Signed: Dominic Creedon
Phoenix Electric Company

FOR ORIGINAL SIGNATURES, SEE ET-1.2, REV. 0

SHEET NOTES:

- A SOME EXISTING TRAFFIC SIGNAL CONDUITS ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTING CONDUIT ROUTING. THERE ARE (E) WIRES IN CONDUITS. CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE EXISTING WIRES. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE.
- B ABANDON (E) CONDUIT. CUT CABLE AND STORE SLACK IN NEAREST PULLBOX OR CABINET.
- C MODIFY EXISTING CONDUIT AS NECESSARY. REFER TO NOTE A ON ET-1.1.

PHASE DIAGRAM

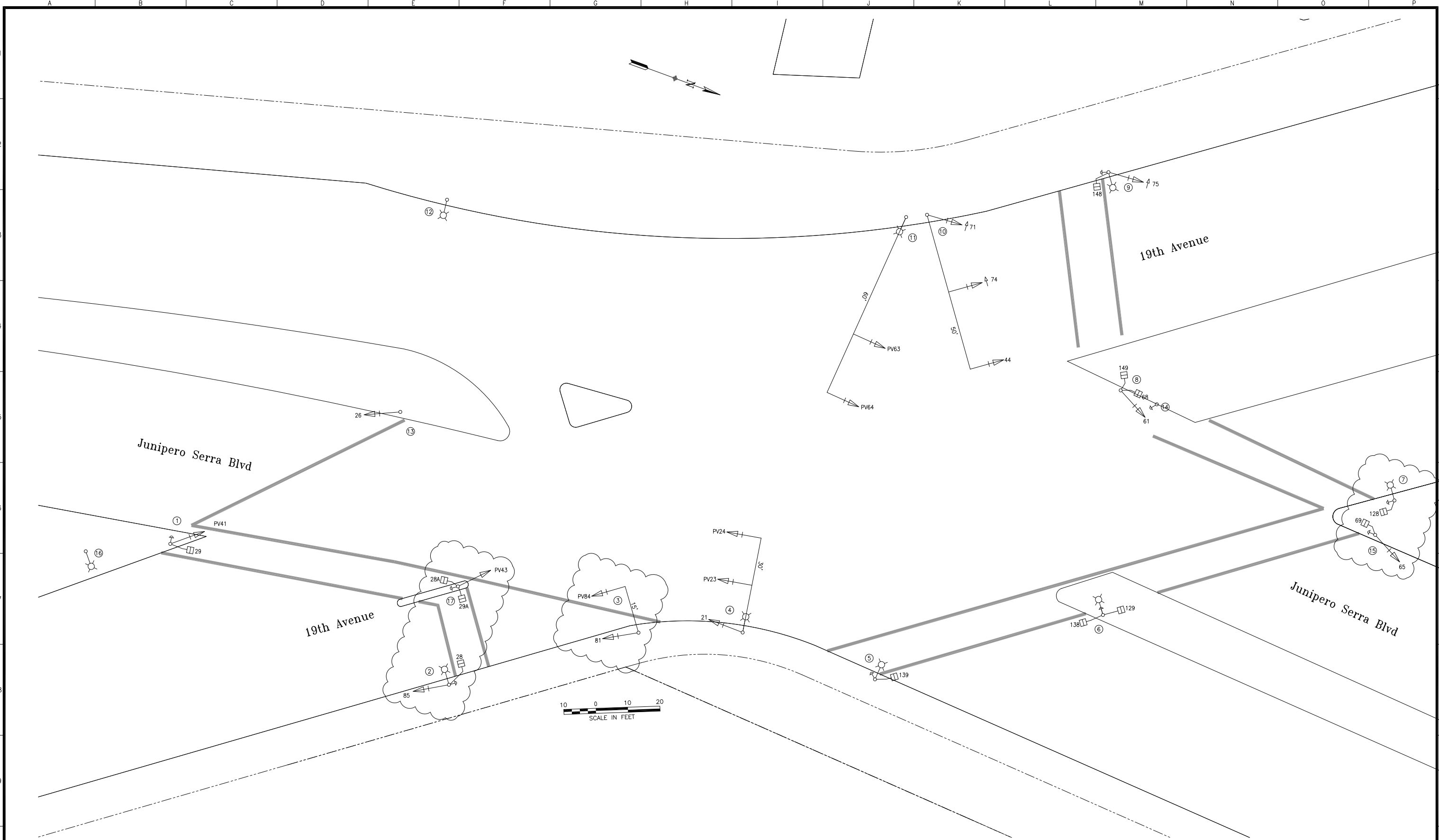


DESIGNED: DATE: 4/10/2015 DNM/VA DRAWN: DATE: 4/10/2015 DNM CHECKED: DATE: 4/10/2015 KK		APPROVED CHERYL LIU 03/07/17 SECTION ENGINEER DATE: MANITO VELASCO FOR RICARDO OLEA 03/07/17 CITY TRAFFIC ENGINEER DATE:		SCALE: AS SHOWN SHEET OF SHEETS	19TH AVENUE AND JUNIPERO SERRA BOULEVARD INTERSECTION IMPROVEMENT PROJECT NINETEENTH AVE AND JUNIPERO SERRA BLVD TRAFFIC SIGNAL MODIFICATION POLE AND EQUIPMENT SCHEDULE	CONTRACT NO. DRAWING NO. ET-1.2 FILE NO. REV. NO. 1
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SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
TRANSPORTATION ENGINEERING
CITY AND COUNTY OF SAN FRANCISCO

REFERENCE INFORMATION & FILE NO. OF SURVEYS			
2	11/29/17	NEW CONDUIT 26 TO POLE S. UPDATED APS WIRING.	DNM MV
1	5/15/17	REMOVE DELETED CONDUITS. ALLOW SL POLE REUSE.	DNM MV
NO.	DATE	DESCRIPTION	BY APP
TABLE OF REVISIONS			
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION			



NO.	DATE	DESCRIPTION	BY	APP.
1	9/2012	PER FIELD CHECK	GD	ET
0	4/30/2009	SIGNAL UPGRADE ACTIVATED THROUGH CONTRACT # 04-162514; CONVERTED FROM CONTRACT PLANS	GD	ET
TABLE OF REVISIONS CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE INFORMATION & FILE NO. OF SURVEYS
SIGNAL UPGRADE THROUGH CALTRANS 19TH AVE PHASE #1



SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY
CITY AND COUNTY OF SAN FRANCISCO

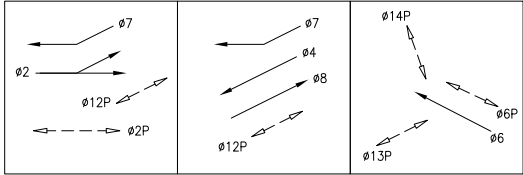
DRAWN:	DATE:
GD	10/23/2012
CHECKED:	DATE:
ET	10/23/2012

SCALE:
AS SHOWN
SHEET OF SHEETS
1 OF 2

TRAFFIC SIGNAL INVENTORY DIAGRAM
19TH AVENUE AND JUNIPERO SERRA BLVD

CNN NO.
22556000
REV NO.
1

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R				JUNIPERO SERRA BLVD (NB) – Ø2					
R			G	Y	R		19TH AVENUE (SB) – Ø4				
R				G		Y	R	JUNIPERO SERRA BLVD (SB) – Ø6			
R	G			Y	R		19TH AVENUE (SBRT) – Ø7				
R			G	Y	R		19TH AVENUE (NB) – Ø8				
W	FRH	RH				PED XING 19TH AVENUE (S/S) – Ø2P					
RH				W	FRH	RH	PED XING 19TH AVENUE (N/S) – Ø6P				
W		FRH	RH			PED XING JUNIPERO SERRA BLVD (E/S) – Ø12P					
RH				W	FRH	RH	PED XING JUNIPERO SERRA BLVD (E/S) – Ø13P				
RH				W	FRH	RH	PED XING 19TH AVENUE (N/S) – Ø14P				

POLE AND EQUIPMENT SCHEDULE

POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/ WATTAGE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS/BP	No.	TYPE	MOUNTING	
①	1-A (10')		PV41	3S12"TA	TV-1-T	CAP	BP	29	1S-COUNT	SP-1-T	PPB
②	15TS WITH 8' LUMINAIRE ARM	310	85	3S12"	SV-1-T	T	BP	28	1S-COUNT	SP-1-T	PPB
③	16-2-100 WITH 15' MAST ARM		81 PV84	3S12" 3S12"	SV-1-T MAS	T CAP	BP BP				AUTOSCOPE
④	19-3-100 WITH 30' MAST ARM AND 8' LUMINAIRE ARM	310	21 PV23 PV24	3S12" 3S12" 3S12"	SV-1-T MAS MAS	T CAP CAP	BP BP BP				AUTOSCOPE
⑤	15TS WITH 8' LUMINAIRE ARM	310						139	1S-COUNT	SP-1-T	PPB
⑥	15TS WITH 8' LUMINAIRE ARM	310						129 138	1S-COUNT 1S-COUNT	SP-2-T	PPB
⑦	19A-1-100 WITH 8' LUMINAIRE ARM	310						128	1S-COUNT	SP-1-T	PPB
⑧	1-A (10')		61	3S12"	TV-1-T	T	BP	68 149	1S-COUNT 1S-COUNT	SP-2-T	
⑨	15TS WITH 8' LUMINAIRE ARM	310	75	3S12"RA	SV-1-T	T	BP	148	1S-COUNT	SP-1-T	PPB
⑩	28-5-100 WITH 50' MAST ARM		71 74 44	3S12"RA 3S12"RA 3S12"TA	SV-1-T MAS MAS	T T T					AUTOSCOPE
⑪	61A-5-100 WITH 60' MAST ARM AND 8' LUMINAIRE ARM	310	PV63 PV64	3S12" 3S12"	MAS MAS	CAP CAP	BP BP				AUTOSCOPE
⑫	STREET LIGHT	310									
⑬	1-A (10')		26	3S12"	TV-1-T	T	BP				
⑭	PPB POST										PPB
⑮	1-A (10')		65	3S12"	TV-1-T	T	BP	69	1S-COUNT	SP-1-T	PPB
⑯	15TS WITH 8' LUMINAIRE ARM	310									
⑰	1-A (10')		PV43	3S12"	TV-1-T	CAP		28A 29A	1S-COUNT 1S-COUNT	SP-2-T	PPB