

PED SIGNALS ACTIVATED AS PART OF CT 32 ON 3/18/09

DETAIL NOTES:

- △ EX CONDUIT AND WIRING R/C EX WIRING F/I NEW WIRING AS NOTED
- ⊗ EX CONDUIT AND 12/C TO REMAIN

SHEET NOTES:

- FOR NEW VEHICLE SIGNAL 45, USE EXISTING 3/14 TS WIRES IN EX CONDUITS 1,2,4,5 AND 6; F/I 1/14 TS WIRE IN CONDUITS 1,2,4,5 AND 5 AND 6; AND USE EXISTING NEUTRALS.
- FOR NEW VEHICLE SIGNAL 63, USE EXISTING 3/14 TS WIRES IN EX CONDUITS 4,5, AND 6 AND USE EXISTING NEUTRALS.
- FOR NEW VEHICLE SIGNAL 41, USE EXISTING 3/14 TS WIRES IN EX CONDUITS 4,5 AND 6; F/I 1/14 TS WIRE IN EX CONDUITS 4,5 AND 6; AND USE SAME EXISTING NEUTRALS AS SIGNAL 63.
- FOR NEW PED SIGNAL 80, F/I 2/14 TS WIRES IN EX CONDUITS 12 AND 13; F/I 1/14 NEUTRAL IN EX CONDUIT 12; AND SPLICE NEW #14 NEUTRAL TO EXISTING NEUTRALS IN EXISTING PULL BOX NEXT TO POLE 4.
- FOR NEW VEHICLE SIGNALS 23 AND 53, F/I 6/14 TS WIRES IN (M) CONDUIT 14, AND IN (EX) CONDUITS 11 AND 13. F/I 2/14 NEUTRALS IN (M) CONDUIT 14; AND SPLICE NEW #14 NEUTRALS TO EXISTING NEUTRALS IN EXISTING PULL BOX NEXT TO POLE 3.
- FOR NEW PED SIGNAL 86, F/I 2/14 TS WIRES IN EX CONDUITS 7, 9, 11 AND 13 AND USE EXISTING NEUTRALS FOR VEHICLE SIGNAL 81 SINCE SIGNAL 81 WILL BE REMOVED.
- FOR EXISTING VEHICLE SIGNAL 81 WHICH WILL BE REMOVED, RELABEL EXISTING 2/14 TS WIRES AS SPARES.
- FOR NEW VEHICLE SIGNALS 85 AND 52, USE EXISTING 6/14 TS WIRES IN EX CONDUITS 8, 9, 11 AND 13 AND USE EXISTING NEUTRALS.
- ALL OTHER TS WIRING AT THIS INTERSECTION TO REMAIN, UNLESS ABOVE.

SYMBOLS BELOW APPLY TO DWGS E-22.0 & E-22.1

- △ INDICATES NEW CONDUIT
- ⊗ INDICATES EXISTING CONDUIT

ANS ARE TO BE RETURNED WITH CORRECTIONS MADE AND CERTIFIED TO IN RED INK AND DATED BY THE INSPECTOR IN CHARGE UPON COMPLETION OF THE WORK BEFORE FINAL PAYMENT CAN BE MADE.

Simothy C. Chen 10/25/09
SIGNED-INSPECTOR

AS-BUILT

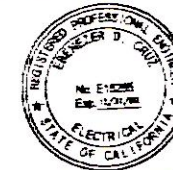
Date:

By:

Huf

NOTE:

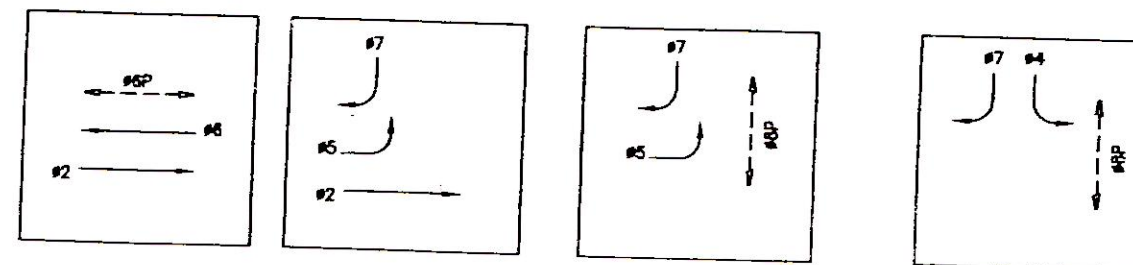
THIS AUTOCAD DRAWING HAS BEEN REVISED AND REPLOTED SUBSEQUENT TO INTERNAL ENGINEERING APPROVAL AND SIGN-OFF. FOR THOSE SIGNATURES, SEE THE DRAWING PLOTTED AND ISSUED PREVIOUSLY DURING BIDDING. THE SIGNED DRAWING REMAINS VALID EXCEPT FOR THE CHANGES ONLY AS CLEARLY MARKED ON THIS DRAWING AND ISSUED UNDER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

1. 8/26/08 POC #1: VARIOUS CHANGES BASED ON POLE LAYOUT NO. DATE DESCRIPTION BY APP		REFERENCE INFORMATION & FILE NO. OF SURVEYS		 BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO				DESIGNED: JS/GD 10/07 DRAWN: CXL 10/07 CHECKED: BC 10/07	APPROVED: SECTION MANAGER DATE: _____ DEPUTY BUREAU MANAGER DATE: _____ CITY ENGINEER DATE: _____	SCALE: AS SHOWN SHEET OF SHEETS: 71 of 78	CONTRACT 32 TRAFFIC SIGNAL MODIFICATIONS CLAREMONT BLVD & PORTOLA DR	SPECIFICATION NO. 0985J DRAWING NO. E-22.0 FILE NO. 87,557 REV. NO. 1
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POLE AND EQUIPMENT SCHEDULE										
POLE No.	TYPE OF POLE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
		No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	EX 1-A (10')						EX 88 8E	EX 15-COUNT 15-COUNT	EX SP-1 SP-1 (u)	REMOVE SIGNAL 81 AND CAP OFF TOP OF POLE
②	EX 1-A (10')	52 65	3812"-LA 388"	TV-2-T	T T					
③	19-1-100 W/B MAST ARM AND DUAL LUMINAIRE ARMS	23 53	3812"-GSA 3812"-LA	MAS SV-1-T	T T					BACKPLATE
④	EX 16-1-70 WITH 15' SIGNAL MAST ARM	24 EX 42	3512"-GSA EX 358"	MAS EX SV-1-T	EX FC EX FC		89	15-COUNT	SP-1	BACKPLATE ①
⑤	EX 1-A (13')	EX 25 EX 43	EX 358" EX 358"	EX SV-1-T (MOUNTED @10') EX TV-1 (MOUNTED @13')	EX FC EX FC					
⑥	EX SL	41 63	4812"-GRA 388"	SV-2-TA	T T					
⑦	EX 16-1-70 WITH 15' SIGNAL MAST ARM	EX 81 EX 64	EX 358" EX 3512"	EX SV-1-T EX MAS	EX FC EX FC		EX 68	EX 15-COUNT	EX SP-1	
⑧	EX 1-A (10')	45	4812"-GRA	TV-1-T	T					

① FOR SIGNAL 24, REPLACE (E) GREEN LED LENS WITH A (M) GREEN LED LENS WITH STRAIGHT ARROW.

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R	PORTOLA (EB) - #2
R	G	Y	CLAREMONT (SB LT) - #4
R	CLA	Y	PORTOLA (EB LT) - #5
G	Y	R	PORTOLA (WB) - #6
OFF	GRA		CLAREMONT (SB RT) - #7
WM	FRH	RH	PEDS XING CLAREMONT (N/S) - 8P
RH	WM	FRH	PEDS XING PORTOLA (E/S) - 8P

PLANS ARE TO BE RETURNED WITH CORRECTIONS MADE AND CERTIFIED TO IN RED INK AND DATED BY THE INSPECTOR IN CHARGE UPON COMPLETION OF THE WORK BEFORE FINAL PAYMENT CAN BE MADE.

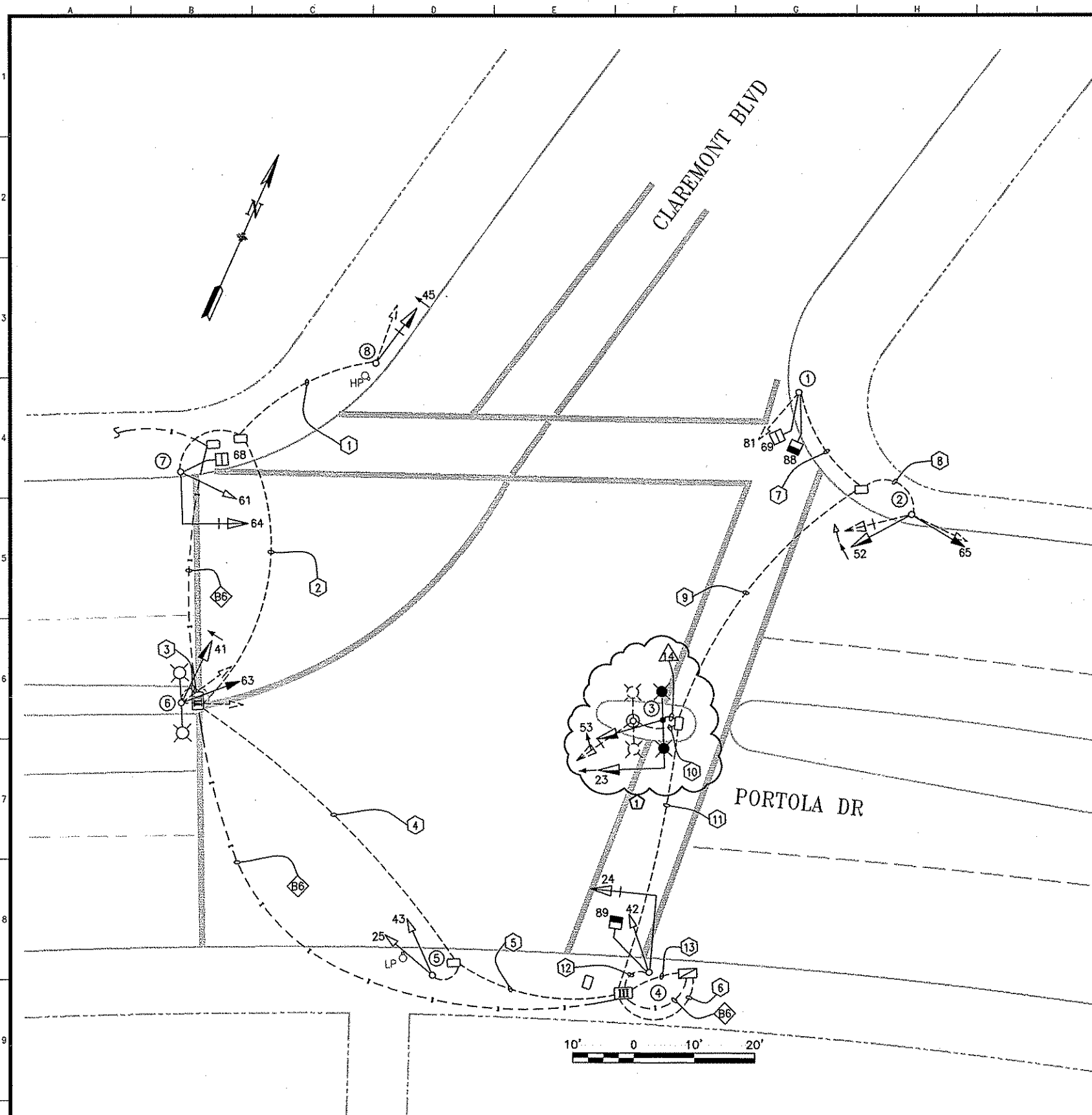
Sanjay Gdm 10/25/09
SIGNED-INSPECTOR

AS-BUILT

Date:

By: *Hanf*

8/25/08 PCD #1: VARIOUS CHANGES BASED ON POLE LAYOUT NO. DATE DESCRIPTION BY APP.		REFERENCE INFORMATION & FILE NO. OF SURVEY				BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO		DESIGNED: DATE: 10/07 DRAWN: DATE: 10/07 CHECKED: DATE: 10/07 BC		APPROVED: DATE: 10/07 SECTION MANAGER: DATE: 10/07 DEPUTY BUREAU MANAGER: DATE: 10/07 CITY ENGINEER: DATE: 10/07		SCALE: NONE SHEET OF SHEETS: 72 of 78		CONTRACT 32 TRAFFIC SIGNAL MODIFICATIONS CLAREMONT BLVD & PORTOLA DR SCHEDULE		SPECIFICATION NO. 0985J DRAWING NO. E-22.1 FILE NO. 87.538 REV. NO.	
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DETAIL NOTES:

- A1 EX CONDUIT AND WIRING. R/C EX WIRING. F/I NEW WIRING AS NOTED.
- B6 EX CONDUIT AND 12/C TO REMAIN

SHEET NOTES:

- FOR NEW VEHICLE SIGNAL 45, USE EXISTING 3#14 TS WIRES IN EX CONDUITS 1,2,4,5 AND 6; F/I 1#14 TS WIRE IN CONDUITS 1,2,4,5 AND 5 AND 6; AND USE EXISTING NEUTRALS.
- FOR NEW VEHICLE SIGNAL 63, USE EXISTING 3#14 TS WIRES IN EX CONDUITS 4,5, AND 6 AND USE EXISTING NEUTRALS.
- FOR NEW VEHICLE SIGNAL 41, USE EXISTING 3#14 TS WIRES IN EX CONDUITS 4,5 AND 6; F/I 1#14 TS WIRE IN EX CONDUITS 4,5 AND 6; AND USE SAME EXISTING NEUTRALS AS SIGNAL 63.
- FOR NEW PED SIGNAL 89, F/I 2#14 TS WIRES IN EX CONDUITS 12 AND 13; F/I 1#14 NEUTRAL IN EX CONDUIT 12; AND SPLICE NEW #14 NEUTRAL TO EXISTING NEUTRALS IN EXISTING PULL BOX NEXT TO POLE 4.
- FOR NEW VEHICLE SIGNALS 23 AND 53, F/I 6#14 TS WIRES IN (N) CONDUIT 14, AND IN (EX) CONDUITS 11 AND 13. F/I 2#14 NEUTRALS IN (N) CONDUIT 14; AND SPLICE NEW #14 NEUTRALS TO EXISTING NEUTRALS IN EXISTING PULL BOX NEXT TO POLE 3.
- FOR NEW PED SIGNAL 88, F/I 2#14 TS WIRES IN EX CONDUITS 7, 9, 11 AND 13 AND USE EXISTING NEUTRALS FOR VEHICLE SIGNAL 81 SINCE SIGNAL 81 WILL BE REMOVED.
- FOR EXISTING VEHICLE SIGNAL 81 WHICH WILL BE REMOVED, RELABEL EXISTING 2#14 TS WIRES AS SPARES.
- FOR NEW VEHICLE SIGNALS 65 AND 52, USE EXISTING 6#14 TS WIRES IN EX CONDUITS 8, 9, 11 AND 13 AND USE EXISTING NEUTRALS.
- ALL OTHER TS WIRING AT THIS INTERSECTION TO REMAIN, UNLESS ABOVE.

SYMBOLS BELOW APPLY TO DWGS E-22.0 & E-22.1

- △ INDICATES NEW CONDUIT
- ⊗ INDICATES EXISTING CONDUIT

NEW VEHICLE SIGNALS AND PED SIGNALS ACTIVATED
ON 3/18/09 AT 12:32 PM.

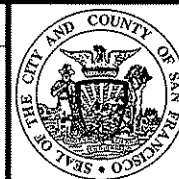
ATTENDED BY: GERARDINE DE LEON (CDPT), TIM WONG (DPW
BCM), PHONG NGUYEN (SIGNAL SHOP), AND FERDI
LUMBAD (SIGNAL SHOP)

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.

NO.	DATE	DESCRIPTION	BY	APP.
1	8/26/08	PCO #1: VARIOUS CHANGES BASED ON POLE LAYOUT	JS	SL
TABLE OF REVISIONS				
CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



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



DESIGNED: JS/GD
DATE: 10/07
DRAWN: CXL
DATE: 10/07
CHECKED: BC
DATE: 10/07

APPROVED
SECTION MANAGER
DEPUTY BUREAU MANAGER
CITY ENGINEER

SCALE:
AS SHOWN
SHEET OF SHEETS
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CONTRACT 32
TRAFFIC SIGNAL MODIFICATIONS
CLAREMONT BLVD & PORTOLA DR

SPECIFICATION NO.
0985J
DRAWING NO.
E-22.0
FILE NO.
87,537
REV. NO.
1

Drawing Path: V:\0985J_Contract\32_Traffic_Signal_Modification\2_Design\Working_Drawings\0985J_EEL\0985J_EEL Title Block_1.dwg
Plot Time: Fri, 03 Oct 2008 11:19:58 AM
Model Units: Feet

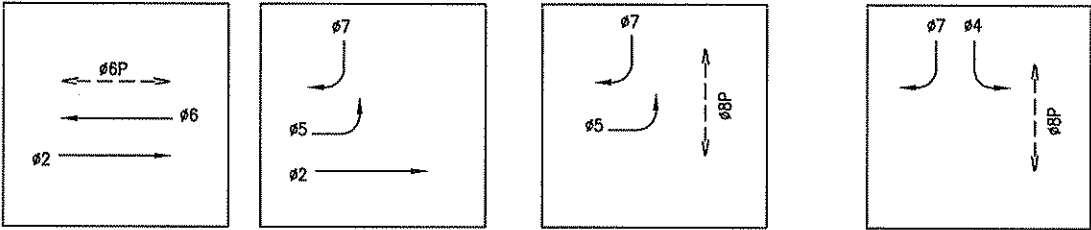
POLE AND EQUIPMENT SCHEDULE											CONTRACT WORK IN BOLD
POLE No.	TYPE OF POLE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS	
		No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING		
①	EX. 1-A (10')						EX. 69 88	EX. 1S-COUNT 1S-COUNT	EX. SP-1 SP-1 (ZZ)	REMOVE SIGNAL 81 AND CAP OFF TOP OF POLE	
②	EX. 1-A (10')	52 65	3S12"-LA 3S8"	TV-2-T	T T						
③	19-1-100 W/8' MAST ARM AND DUAL LUMINAIRE ARMS	23 53	3S12"-GSA 3S12"-LA	MAS SV-1-T	T T					BACKPLATE	
④	EX. 16-1-70 WITH 15' SIGNAL MAST ARM	24 EX. 42	3S12"-GSA EX. 3S8"	MAS EX. SV-1-T	EX. FC EX. FC		89	1S-COUNT	SP-1	BACKPLATE ①	
⑤	EX. 1-A (13')	EX. 25 EX. 43	EX. 3S8" EX. 3S8"	EX. SV-1-T (MOUNTED @10') EX. TV-1 (MOUNTED @13')	EX. FC EX. FC						
⑥	EX SL	41 63	4S12"-GRA 3S8"	SV-2-TA	T T						
⑦	EX. 16-1-70 WITH 15' SIGNAL MAST ARM	EX. 61 EX. 64	EX. 3S8" EX. 3S12"	EX. SV-1-T EX. MAS	EX. FC EX. FC		EX. 68	EX. 1S-COUNT	EX. SP-1		
⑧	EX. 1-A (10')	45	4S12"-GRA	TV-1-T	T						

① FOR SIGNAL 24, REPLACE (E) GREEN LED LENS WITH A (N) GREEN LED LENS WITH STRAIGHT ARROW.

* CHANGED TO 22" NIPPLE
PER VERBAL AGREEMENT W/
TIM WONG

GD

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R	PORTOLA (EB) - 02
R	G	Y	CLAREMONT (SB LT) - 04
R	GLA	Y	PORTOLA (EB LT) - 05
G	Y	R	PORTOLA (WB) - 06
OFF	GRA		CLAREMONT (SB RT) - 07
WM	FRH	RH	PEDS XING CLAREMONT (N/S) - 6P
RH	WM	FRH	PEDS XING PORTOLA (E/S) - 8P

TABLE OF REVISIONS			
NO.	DATE	DESCRIPTION	BY APP.
1	8/26/08	PCO #1: VARIOUS CHANGES BASED ON POLE LAYOUT	JS SL

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



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



DESIGNED:	DATE:
GD	10/07
DRAWN:	DATE:
CXL	10/07
CHECKED:	DATE:
BC	10/07

APPROVED	
SECTION MANAGER	DATE:
DEPUTY BUREAU MANAGER	DATE:
CITY ENGINEER	DATE:

SCALE:
NONE
SHEET OF SHEETS
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CONTRACT 32 TRAFFIC SIGNAL MODIFICATIONS
CLAREMONT BLVD & PORTOLA DR SCHEDULE

SPECIFICATION NO. 0985J
DRAWING NO. E-22.1
FILE NO. 87,538
REV. NO. 1