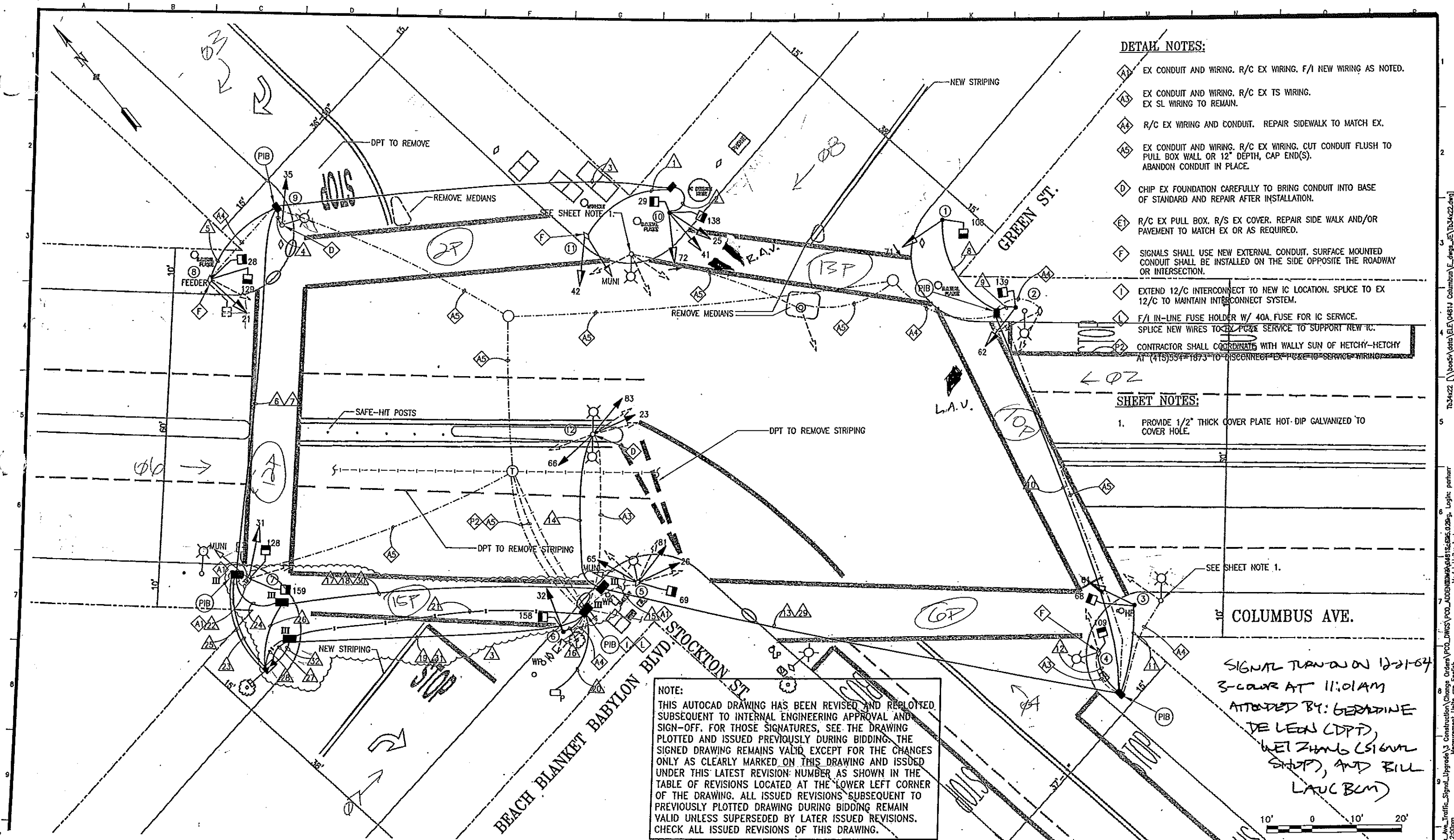


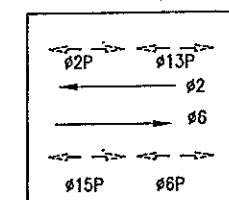


<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP.</th> </tr> <tr> <td>08/04</td> <td>PCO #5</td> <td>ADDED TWO TYPE III PULL BOXES</td> <td>RP</td> <td>BC</td> </tr> <tr> <td>02/04</td> <td>PCO #4</td> <td>RELOCATED SIGNALS & ADDED 1-A POLE</td> <td>RP</td> <td>BC</td> </tr> <tr> <td>12/03</td> <td>PCO #2</td> <td>DELETE GND ROD & REPLACE #10 GND W/ #6 BSCW</td> <td>RP</td> <td>BC</td> </tr> <tr> <td>0</td> <td>9/02</td> <td>ISSUED FOR BID</td> <td>RP</td> <td>BC</td> </tr> </table>		NO.	DATE	DESCRIPTION	BY	APP.	08/04	PCO #5	ADDED TWO TYPE III PULL BOXES	RP	BC	02/04	PCO #4	RELOCATED SIGNALS & ADDED 1-A POLE	RP	BC	12/03	PCO #2	DELETE GND ROD & REPLACE #10 GND W/ #6 BSCW	RP	BC	0	9/02	ISSUED FOR BID	RP	BC	BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO		REGISTERED PROFESSIONAL ENGINEER No. E16285 Exp. _____ ELECTRICAL STATE OF CALIFORNIA		DESIGNED: DATE: 9/02 RP DRAWN: DATE: 9/02 JS CHECKED: DATE: 9/02 BC APPROVED: _____ SECTION MANAGER: _____ DIVISION MANAGER: _____ CITY ENGINEER: _____		SCALE: 1" = 10 feet SHEET OF SHEETS		COLUMBUS AVENUE TRAFFIC SIGNAL UPGRADE COLUMBUS AVE., GREEN ST. AND STOCKTON ST.		SPECIFICATION NO. 0481J (R) DRAWING NO. E-5.0 FILE NO. 80,021 REV. NO. 3	
NO.	DATE	DESCRIPTION	BY	APP.																																		
08/04	PCO #5	ADDED TWO TYPE III PULL BOXES	RP	BC																																		
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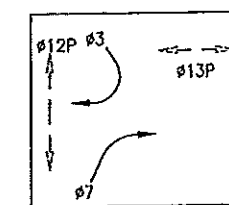
T:\34422 (V:\0481J Columbus Ave Traffic Signal Upgrade)\34422.dwg
 BOE Title Block [BOE Title Block.dwg]
 V:\0481J Columbus Ave Traffic Signal Upgrade\34422.dwg
 User: parhar
 Date: 01 Jul 2004
 Time: 12:00pm
 Model Units: Inches

POLE AND EQUIPMENT SCHEDULE											
POLE No.	TYPE OF POLE	LUMINAIRE (HPS)	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
		VOLTAGE/ WATTS	No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	1-A (10')		71	3S12"-RA	TV-1-T	T		108	1S-COUNT	SP-1	EXTERNAL CONDUIT SEE ① E-0.4
②	1-A (10')		62	3S12"	TV-1-T	T	L.A.V. **	139	1S-COUNT	SP-1	
③	1-A (10')		61	3S12"	TV-1-T	T		68	1S-COUNT	SP-1	
④	EX. MUNI W/ SL							109	1S-COUNT	SP-1-T	EXTERNAL CONDUIT SEE ① E-0.4
⑤	EX. MUNI W/ SL		26 65 81	3S8" 3S8" 3S8"	SV-3-TA	T T T		69	1S-COUNT	SP-1	
⑥	1-A (10')		32	3S12"-FY	TV-1	T		158	1S-COUNT	SP-1	
⑦	EX. MUNI		31	3S12"-FY	SV-1-T	T		128 159	1S-COUNT 1S-COUNT	SP-2-T	
⑧	EX. MUNI POLE (FEEDER)		21	3S12"	SV-1-T	T		28 129	1S-COUNT 1S-COUNT	SP-1 (22") SP-1-SF (12")	
⑨	EX. SL		35	3S8"-FY	SV-1-T	T					
⑩	1-A (13')		25 41 72	3S12" 3S12" 3S12"-RA	TV-3-TA	T T T	R.A.V. ** L.A.V. **	29 138	1S-COUNT 1S-COUNT	SP-1 (18") SP-1 (12")	MOUNT 72 ON WEST SIDE OF POLE
⑪	EX. MUNI		42	3S12"	SV-1-T	T					EXTERNAL CONDUIT MOUNT 42 @ 15' SEE ① E-0.4
⑫	EX. SL		23 83 66	3S8" 3S8" 3S8"	SV-3-TA	T T T					

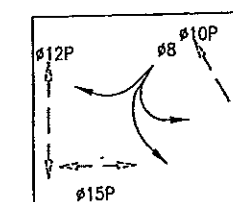
PHASE DIAGRAM



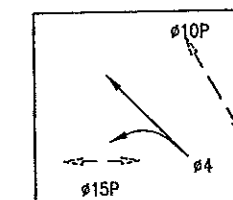
PHASES 2, 6, 2P, 6P,
13P, & 15P



PHASES 3, 7, 12P, & 13P



PHASES 8, 10P, 12P, & 15P



PHASE 4, 10P, & 15P

PHASE SEQUENCE:

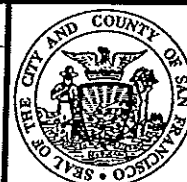
G	Y	R	NB COLUMBUS (#2)
G	Y	R	SB COLUMBUS (#6)
R	G	Y	EB BEACH BLANKET BABYLON (#7)
R	FY	Y	SB STOCKTON (#3)
R	G	Y	WB GREEN (#8)
R	G	Y	NB STOCKTON (#4)
WM	FRH	RH	PEDS XING BEACH BLANKET BABYLON (#7) (15P)
WM	FRH	RH	PEDS XING STOCKTON (SOUTH SIDE) (#6P)
WM	FRH	RH	PEDS XING GREEN (#8) (13P)
WM	FRH	RH	PEDS XING STOCKTON (NORTH SIDE) (#2P)
RH	WM	FRH	PEDS XING COLUMBUS (EAST SIDE) (#10P)
RH	WM	FRH	PEDS XING COLUMBUS (WEST SIDE) (#12P)

* 61D REQUESTED INSTALLATION OF LEFT ANGLE VISORS ON 12-13-04

* * ON THE DAY OF SWITCH OVER, 6D REQUESTED THESE ANGLE VISORS (12-21-04)

NO.	DATE	DESCRIPTION	BY	APP.
02/04	PCO #4 DELETED 1-A POLE	RP	BC	
09/02	ISSUED FOR BID	RP	BC	

REFERENCE INFORMATION
& FILE NO. OF SURVEYS



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



DESIGNED: DATE: 9/02	APPROVED: DATE: 9/02	SCALE: NONE	SPECIFICATION NO. 0481J
DRAWN: DATE: 9/02	SECTION MANAGER: DATE: 9/02		DRAWING NO. E-5.1
CHECKED: DATE: 9/02	DIVISION MANAGER: DATE: 9/02		FILE NO. 80,022
	CITY ENGINEER: DATE: 9/02		REV. NO. 1

COLUMBUS AVENUE TRAFFIC SIGNAL UPGRADE

COLUMBUS AVE., GREEN ST. AND STOCKTON ST.