

NEW SIGNAL

ACTIVATION ON 12/20/2002

FLASH @ 12" PM

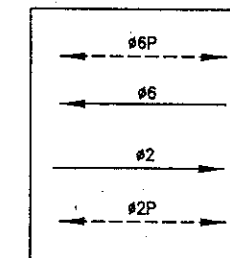
3-COLOR (TEST) @ 12²⁶ PM

3-COLOR (PERMANENT) ON 12/23/2002

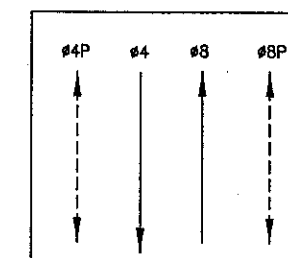
@ 2³⁷ PM

—BBD

STEADY DEMAND PHASE DIAGRAM



PHASES 2 & 6



PHASES 4 & 8

PHASE SEQUENCE

G	Y	R
R	G	Y
WM	FRH	RH
RH	WM	FRH

OCEAN AVE

CERRITOS/WESTGATE

PEDS XING WESTGATE/CERRITOS

PEDS XING OCEAN

SHEET NOTE:

1. ADDITIONAL CONDUIT AND 12/C TO BE FURNISHED AND INSTALLED AT THIS INTERSECTION ARE SHOWN ON DWG ET-38.

DETAIL NOTES:

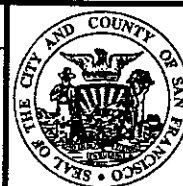
- ⬡ F/I IN-LINE FUSE HOLDER W/ 40 AMP FUSE FOR IC SERVICE.
- ⬡ COORDINATE WITH PG&E FOR SERVICE CONNECTION.

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-9, REV. 0

NO.	DATE	DESCRIPTION	BY	APP.
3/02	PCO#3 - REISSUE PCO#1 (SUPERSEDES REV. 1)	BC	BBD	
4/18/01	PER NEW M-SF REQUIREMENT	BC	BBD	

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: DATE: 8/00
CL/CF
DRAWN: DATE: 8/00
EF/JS
CHECKED: DATE: 8/00
TS/NKS

APPROVED
SECTION MANAGER DATE:
DIVISION MANAGER DATE:
CITY ENGINEER DATE:

SCALE:
1 : 100
SHEET OF SHEETS

MUNI METRO SYSTEM
OCEAN AVENUE RECONSTRUCTION
AND IMPROVEMENTS PROJECT
OCEAN AVE. TRAFFIC SIGNAL UPGRADE
OCEAN, CERRITOS AVES AND WESTGATE DR.

SPECIFICATION NO.
MR-1130
DRAWING NO.
ET-9
FILE NO.
75,259
REV. NO.
2

CONDUIT AND WIRING SCHEDULE																									
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
CONDUIT SIZE (mm)	53	53	53	53	53	53	53	53	53	53	53	53	40	40	40	53	53	53	53						
NOTES																									
#14 WIRES																									
SIGNAL 41	3	3			3							3													
SIGNAL 62	3	3			3							3													
SIGNAL 48	2	2			2							2													
SIGNAL 29	2	2			2							2													
SIGNAL 42			3		3							3													
SIGNAL 89			2		2							2													
SIGNAL 21				3	3							3													
SIGNAL 24				3	3							3													
SIGNAL 28				2	2							2													
SIGNAL 61						3			3																
SIGNAL 64						3			3																
SIGNAL 68						2			2																
SIGNAL 82							3		3																
SIGNAL 49							2		2																
SIGNAL 22												3													
SIGNAL 81												3													
SIGNAL 88												2													
SIGNAL 69												2													
SPARE			3			3						3													
#14 WIRES NEUTRAL	3			2	3		3	2		3															
TOTAL #14 WIRES	13	13	7	11	26	11	7	16	13	26															
#10 WIRES NEUTRAL			1			2				1		2													
#8 WIRES (120V SERVICE)													2	2											
ST. LIGHT #10 WIRES																									
ST. LIGHT #8 WIRE																									
#6 BSCW													1												
6.35mm (1/4") NYLON PULL ROPE																									

POLE AND EQUIPMENT SCHEDULE									
POLE No.	TYPE OF POLE	LUMINAIRE (HPS)	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			REMARKS
		VOLTAGE/WATTS	No.	TYPE	MOUNTING (F/I)	No.	TYPE	MOUNTING (F/I)	
(A)	1-A(10')		41 62	3S8" 3S8" V1	TV-2-T	29 48	1S-IN 1S-IN	SP-1 SP-1	
(B)	16-1-70 WITH 8' MASTARM		61 64	3S8" 3S12" V1 V3	SV-1-T MAS	68	1S-IN	SP-1	BACKPLATE
(C)	1-A(10')		82	3S8" V1	TV-1	49	1S-IN	SP-1	
(D)	1-A(10')		22 81	3S8" 3S8" V1 V1	TV-2-T	69 88	1S-IN 1S-IN	SP-1 SP-1	
(E)	16-1-70 WITH 8' MASTARM		21 24	3S8" 3S12" V1 V3	SV-1-T MAS	28	1S-IN	SP-1	BACKPLATE
(F)	1-A(10')		42	3S8" V1	TV-1	89	1S-IN	SP-1	

DETAIL NOTE:

V1 LED RED, INCANDESCENT YELLOW, LED GREEN

V3 LED RED, LED YELLOW, LED GREEN

3/02	PCO#3 - REISSUE PCO#1 (SUPERSEDES REV. 1)	BC	BBD
4/18/01	PER NEW M-SF REQUIREMENT	BC	BBD
NO.	DATE	DESCRIPTION	BY

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

FOR ORIGINAL SIGNATURES, SEE DRAWING NO. ET-10, REV. 0

DESIGNED: DATE: CL/CF/JM 8/00	APPROVED: SECTION MANAGER DATE:	SCALE: NONE
DRAWN: DATE: EF/JS 8/00	DIVISION MANAGER DATE:	SHEET OF SHEETS
CHECKED: DATE: TS/NKS 8/00	CITY ENGINEER DATE:	

MUNI METRO SYSTEM
OCEAN AVENUE RECONSTRUCTION AND IMPROVEMENTS PROJECT

OCEAN AVE. TRAFFIC SIGNAL UPGRADE
OCEAN, CERRITOS AVES AND WESTGATE DR

SPECIFICATION NO. MR-1130
DRAWING NO. ET-10
FILE NO. 75,260
REV. NO. 2