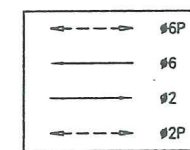
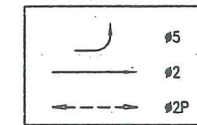


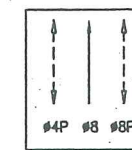
PHASE DIAGRAM: (STEADY DEMAND)



PHASES 2 & 6



PHASES 2 & 5



PHASES 4 & 8

PHASE SEQUENCE: (STEADY DEMAND)

G	Y	R	MISSION ST. E/B
G	Y	R	MISSION ST. W/B
OFF	ON	OFF	MISSION ST. E/B LEFT TURN
R	G	Y	MAIN ST.
WM	FRH	RH	PED XING MAIN ST. N/S
WM	FRH	RH	PED XING MAIN ST. S/S
RH	WM	FRH	PED XING MISSION ST. E/S
RH	WM	FRH	PED XING MISSION ST. W/S

SHEET NOTES:

- FOR BASEMENT ACCESS AND/OR SPECIAL SIDEWALK SPECS, PLEASE CONTACT,
 - STEVE GOODWIN @ 973-3841
77 BEALE ST. (PG&E BLDG; NW CORNER)
 - RON TALBOT @ 974-1942
123 MISSION ST. (SE CORNER)
- WORKING ON SUB SIDEWALK BASEMENT, THE CONTRACTOR SHALL CAREFULLY COREDRILL THROUGH BASEMENT RETAINING WALL TO BRING CONDUIT INTO BASEMENT PULL BOX. FILL THE GAP BETWEEN CONDUIT AND CORE DRILLED HOLE WITH NON-SHRINK GROUT. WATERPROOF SIDEWALK AND RETAINING WALL AROUND ALL PENETRATIONS IN THE BASEMENT AREA INCLUDING POLES, POLE FOUNDATIONS, PULL BOXES, AND CONDUITS, ETC.

DETAIL NOTES:

- A1 EX CONDUIT AND WIRING. R/C EX WIRING. F/I NEW WIRING AS NOTED.
- A2 EX CONDUIT AND WIRING. R/C EX TS WIRING. SL WIRING TO REMAIN. F/I NEW WIRING AS NOTED.
- A3 EX CONDUIT AND WIRING. R/C EX TS WIRING. EX SL WIRING TO REMAIN.
- A4 R/C EX WIRING AND CONDUIT. REPAIR SIDEWALK TO MATCH EX.
- A5 EX CONDUIT AND WIRING. R/C EX WIRING. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12" DEPTH, CAP OR DUCT SEAL END(S).
- B SPLICE NEW WIRING TO EX SL WIRING TO MAINTAIN SL CIRCUIT.
- F VEHICLE AND PEDESTRIAN SIGNALS SHALL USE NEW EXTERNAL CONDUIT. SURFACE MOUNTED CONDUIT SHALL BE INSTALLED ON THE SIDE OPPOSITE THE ROADWAY OR INTERSECTION.
- E R/C EX PULL BOX AND EX COVER. REPAIR SIDEWALK TO MATCH EX.
- S SEE APPLICABLE BASEMENT FOUNDATION ON DWG S-1.
- 11 EXTEND SERVICE WIRES TO NEW IC LOCATION.

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF SAN FRANCISCO

NO.	DATE	DESCRIPTION	BY	APP.
1	8/03	Pco #13, new IC foundation and related work	ET	BC
2	1/03	Pco #7, various	BC	BC
3	3/02	Pco #3, revised during construction layout 2/1/02	DSB	BC

REFERENCE INFORMATION
& FILE NO. OF SURVEYS

DESIGNED: DSB/DVS/WL 1/01
DATE: 1/01
DRAWN: JS DSB/WL 1/01
DATE: 1/01
CHECKED: SL/BW 1/01
DATE: 1/01

APPROVED
SECTION MANAGER
DIVISION MANAGER
CITY ENGINEER

SCALE:
1"=10'-0"
SHEET OF SHEETS
5 OF 39

SOMA MISSION STREET
TRAFFIC SIGNAL UPGRADE
MAIN ST. AND MISSION ST.

SPECIFICATION NO.
1663N
DRAWING NO.
E-1.0
FILE NO.
75,562
REV. NO.
3

8/21/03
OFF 9:10
Flash 10:30
3-color-10:34

EXTERNAL REFERENCES: S:\ELEV\1663N\1634x22.dwg
FINIS: 10/1/03
SCALE FACTOR: 10
PRINT: 10/1/03
ORIGIN: ELECTRICAL

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 (INCH)	EX	2	2	2	2	2	EX	2	EX	EX	2	2	2			EX	EX	2	2	2	3	3	2	2	
NOTES																									
#14 WIRES																									
SIGNAL 88	2	2		2																		2			
SIGNAL 81	3	3		3																	3				
SIGNAL 22	4	4		4																	3				
SIGNAL 23			4	4																	3				
SIGNAL 69			2	2																	2				
SIGNAL 21					3																3				
SIGNAL 89				2																	2				
SIGNAL 24				3																	3				
SIGNAL 28						2															2				
SIGNAL 84							3			3									3			3			
SIGNAL 68								2		2									2			2			
SIGNAL 82								3		3									3			3			
SIGNAL 61									3	3									3			3			
SIGNAL 49									2	2									2			2			
SIGNAL 48																2				2		2			
SIGNAL 29(EX)																3	2			2		2			
SIGNAL 62																					3				
SIGNAL 65			3	3																	3				
#14 WIRES (NEUTRAL)	2		2		3		1	1	2	2						2	1								
#14 WIRES (SPARE)				3																3					
TOTAL #14 WIRES	11	9	11	21	11		3	4	7	7	16					7	3		13	10	26	23			
#10 WIRES NEUTRAL		1		1							1									1					
#8 WIRES (ST. LIGHT)					2						2								2						
#10 WIRES (ST. LIGHT)					2																				
DLW												8													
DLC																									
1/4" PULL ROPE			1								1														
#8 SERVICE WIRES																									
12/C INTERCONNECT																									

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.
8/03		Pco#13, new IC foundation and related work	ET	BC
2/03		Pco#7, delete median island and related work		BC
3/02		Pco#3, revised during construction layout 2/1/02	DSB	BC

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

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)	
1	EX 1-A (10')		22 81	4S12"LA 3S12"	TV-2-T	88	1S-IN	SP-1	W/LOUVER
2	1-A (10')		23 65	4S12"LA 3S8"	TV-2-T	69	1S-IN	SP-1	
3	17-1-70 W/8' MAST ARM AND 6' LUMINAIRE ARM	200/240 B2	21 24	3S12" 3S12"	SV-1-T MAS (END)	89	1S-IN	SP-1-SF	BACKPLATE
4	EX MUNI					28	1S-IN	SP-1-SF	
5	EX SL					29 (EX)	1S-IN		
6	1-A (10')		62	3S12"	TV-1-T	48	1S-IN	SP-1	
7	NOT USED								
8	NOT USED								
9	EX MUNI		61	3S12"	SV-1-T	49	1S-IN	SP-1-T	EXTERNAL CONDUIT E-0.3
10	EX 1-A		82	3S8"	TV-1	68	1S-IN	SP-1	
11	16-1-70 W/20' MAST ARM		84	3S12"	MAS				BACKPLATE BASEMENT

DETAIL NOTES:

B2 F/I WITH INTEGRAL BALLAST AND PHOTOELECTRIC CONTROL F/I FUSE AND FUSE HOLDERS PER SPDPWSF FILE #49,092.

DESIGNED: DSB/DVS/WL	DATE: 1/01
DRAWN: DSB	DATE: 1/01
CHECKED: SL/BW	DATE: 1/01

APPROVED
SECTION MANAGER
DIVISION MANAGER
CITY ENGINEER

SCALE: NONE
SHEET OF SHEETS 6 OF 39

SOMA MISSION STREET TRAFFIC SIGNAL UPGRADE
MAIN ST AND MISSION ST TRAFFIC SIGNAL WORKS (SCHEDULES)

SPECIFICATION NO. 1663N
DRAWING NO. E-1.1
FILE NO. 75,563
REV. NO. 3

EXTERNAL REFERENCES: S:\ELE\1663N\163422.dwg
FILE NAME: 1663N-E-03.dwg
DATE: 01-06-1999 11:56
ORIGIN: ELECTRICAL