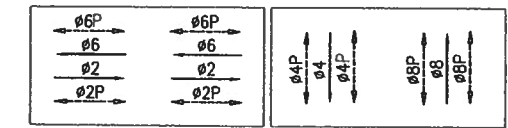


Removed ped push buttons
and signage for
movements crossing
Mission Bay Blvd North:
Mission Bay Blvd South.
SRC 2017-301, completed 10/25/17



PHASE DIAGRAM

GENERAL NOTES

ALL WORK AND MATERIALS SHALL CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS, SECTION 86, AND THE APPLICABLE CALTRANS STANDARD PLANS, BOTH DATED JULY 2002 UNLESS OTHERWISE SPECIFIED IN THE CCSF SPECIFICATIONS.

ALL CONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THIS SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.

THE CONDUCTOR AND EQUIPMENT SCHEDULES ARE FURNISHED FOR INSTALLATION GUIDELINES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE CORRECT WIRING AND EQUIPMENT FOR THE INTENDED OPERATION.

PULL BOXES SHALL BE CCSF TYPE II UNLESS OTHERWISE NOTED.

THE LOCATIONS OF POLES, CABINETS AND PULL BOXES SHALL BE MARKED IN THE PRESENCE OF THE ENGINEER AND SHALL BE APPROVED BY THE OWNER'S AGENT PRIOR TO INSTALLATION.

EXACT LOCATION OF EACH VIDEO DETECTION CAMERA ON THE MAST ARM SHALL BE DETERMINED BY THE MANUFACTURER'S REPRESENTATIVE.

THE CONTRACTOR SHALL POSSESS A CLASS "C10" LICENSE AT THE TIME THE CONTRACT IS AWARDED TO PERFORM THE ELECTRICAL WORK.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES WITH THE UTILITY PROVIDER BEFORE EXCAVATION. CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT LEAST 72 HOURS PRIOR TO EXCAVATION AT 1-800-227-2600.

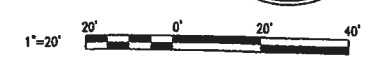
PROJECT NOTES

- FURNISH AND INSTALL TYPE 2070 CONTROLLER ASSEMBLY. THE CONTRACTOR SHALL ALSO FURNISH THE ANCHOR BOLTS AND CONSTRUCT THE CONTROLLER CABINET FOUNDATION - SEE SPECIFICATIONS FOR THE CONTROLLER ASSEMBLY AND CCSF "M-SF" CABINET FOUNDATION REQUIREMENTS.
- FURNISH AND INSTALL A 1-POLE SIMULTANEOUS DISCONNECTING WATERPROOF FUSEHOLDER FOR THE 120V TRAFFIC SIGNAL SERVICE PROTECTION IN ACCORDANCE WITH SFDWPSP 49.092.

APPLICABLE CALTRANS STANDARD PLANS

JULY 2002					
ES-1A	ES-3A	ES-3B	ES-3C	ES-4A	ES-4B
ES-4C	ES-4D	ES-4E	ES-5C	ES-7B	ES-7E
ES-7M	ES-7N	ES-13A	ES-13B		

THIS DRAWING IS ACCURATE FOR ELECTRICAL WORK ONLY



4TH & MISSION BAY BLVD NORTH/SOUTH
TRAFFIC SIGNALS
RESIDENTIAL AREA
MISSION BAY PROJECT, SAN FRANCISCO, CA

50% SUBMITTAL	9/27/06	DATE
90% SUBMITTAL	10/16/06	
100% SUBMITTAL	12/22/06	
SUBMITTAL TO THE BOARD	02/01/08	
100% SUBMITTAL 2	07/07/08	
100% SUBMITTAL 3	08/20/08	
DESCRIPTION		

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The Global Distribution Solution

F&L Freyer & Laureta, Inc.
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CHS Consulting
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1208 Franklin Street, Suite 208
Oakland, California 94612
PH: (415) 772-4897
FAX: (415) 772-4898

DATE: 12/20/06
DESIGNED: ECJ
DRAWN: ASL
CHECKED: -
PROJ. ENGR: ECJ
SCALE: 1"=20'
SHEET IS ONE INCH OR ORIGINAL
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALE ACCORDINGLY

SHEET
T1.2

JOB NO.
42024

POLE AND EQUIPMENT SCHEDULE - MISSION BAY BLVD SOUTH

POLE NO.	TYPE OF POLE	LUMINAIRE WATTAGE	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON		VIDEO DETECTION CAMERA	REMARKS
			NO.	TYPE	MOUNTING	NO.	TYPE	MOUNTING	Ø	ARROW		
I	1-A 10'		46	3S8"	TV-1-T	48	1S-LED	SP-1-T	Ø	→		2
J	770 MB N-4-P2	1	65A	3S8"	SV-1-T	69A	1S-LED	SP-1-T	4	→		1 2
K	761 MB 15'SA/8'LA N-4-P1	1	24A 21A	3S12" 3S12"	MAS SV-1-T	28A	1S-LED	SP-1-T	4	→	2A SOUTH	1 2 3
L	1-A 10'		42	3S12"	TV-1-T	49	1S-LED	SP-1-T	Ø	→		2
M	770 MB 15'SA/8'LA N-MBS-P15	1	44 41	3S12" 3S12"	MAS SV-1-T	448	1S-LED	SP-1-T	Ø	→	4 WEST	1 2 3
N	761 MB N-MBS-P14		62A 25A	3S12" 3S8"	SV-2-TA	29A	1S-LED	SP-1-T	4	→		1 2
O	770 MB 15'SA/8'LA N-MBS-P13	1	64A 61A	3S12"(PV) 3S12"(PV)	MAS SV-1-T	68A	1S-LED	SP-1-T	4	→	6A NORTH	1 2 3
P	LP6 N-MBS-P12		45	3S8"	SV-1-T	449	1S-LED	SP-1-T	Ø	→		1 2

POLE AND EQUIPMENT SCHEDULE - MISSION BAY BLVD NORTH

POLE NO.	TYPE OF POLE	LUMINAIRE WATTAGE	VEHICLE SIGNAL			PEDESTRIAN SIGNAL			PED PUSH BUTTON		VIDEO DETECTION CAMERA	REMARKS
			NO.	TYPE	MOUNTING	NO.	TYPE	MOUNTING	Ø	ARROW		
A	770 MB 15'SA/8'LA N-MBN-P12	1	84 81	3S12" 3S12"	MAS SV-1-T	88	1S-LED	SP-1-T	Ø	→	8 EAST	1 2 3
B	LP6 N-4-P6	1	22 65	3S12" 3S8"	SV-2-TA	69	1S-LED	SP-1-T	8	→		1 2
C	LP7 15'SA/8'LA N-4-P5	1	24 21	3S12"(PV) 3S12"(PV)	MAS SV-1-T	28	1S-LED	SP-1-T	8	→	2 SOUTH	1 2 3
D	LP6 N-MBN-P13	1	85	3S8"	SV-1-T	89	1S-LED	SP-1-T	Ø	→		1 2
E	1-A 10'		86	3S8"	TV-1-T	888	1S-LED	SP-1-T	Ø	→		2
F	770 MB N-4-P3	1	25	3S8"	SV-1-T	29	1S-LED	SP-1-T	8	→		1 2
G	770 MB 15'SA/8'LA N-4-P4	1	64 61	3S12" 3S12"	MAS SV-1-T	68	1S-LED	SP-1-T	8	→	6 NORTH	1 2 3
H	1-A 10'		82	3S12"	TV-1-T	889	1S-LED	SP-1-T	Ø	→		2

- SEE DRAWINGS OC-10 AND OC-11 FOR MISSION BAY STYLE LIGHTING AND POLE.
- POLES SHALL BE POWDER-COATED "STEEL GREY". #T028-GRO2, BY CARDINAL INDUSTRIAL FINISHES.
- IN LIEU OF THE CALTRANS CURVED SIGNAL MAST ARM, THE ARM SHALL BE HORIZONTAL AND CONNECTED TO THE POLE TO PROVIDE A 23'-6" CLEARANCE ABOVE THE SIDEWALK GRADE TO ACCOMMODATE FUTURE MUNI OVERHEAD CONTACT SYSTEM. SEE DRAWING T2.6 FOR SIGNING REQUIREMENTS.

Removed ped push buttons
and signage for movements
crossing Mission Bay Blvd North:
South.

SRC 2017-301, completed 10/25/17



CONDUIT AND WIRING SCHEDULE - MISSION BAY BLVD SOUTH

CONDUIT RUN NUMBER	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	S
CONDUIT SIZE (INCHES)	2"	2"	2"	3"	2"	2"	2"	3"	2"	3"	2"	2-3"	3"	2"	3"	2"	2"
CONDUCTORS																	
NO. 14 CONDUCTORS																	
SIGNAL 24A	3	3		3		3		3		3		3		3		3	
SIGNAL 21A	3	3		3		3		3		3		3		3		3	
SIGNAL 28A	2	2		2		2		2		2		2		2		2	
SIGNAL 42			3	3		3		3		3		3		3		3	
SIGNAL 49			2	2		2		2		2		2		2		2	
SIGNAL 44			2	2		2		2		2		2		2		2	
SIGNAL 41					3	3		3		3		3		3		3	
SIGNAL 448					3	3		3		3		3		3		3	
SIGNAL 62A					2	2		2		2		2		2		2	
SIGNAL 25A							3	3		3		3		3		3	
SIGNAL 29A							3	3		3		3		3		3	
SIGNAL 64A							2	2		2		2		2		2	
SIGNAL 61A									3	3		3		3		3	
SIGNAL 68A									3	3		3		3		3	
SIGNAL 45									2	2		2		2		2	
SIGNAL 449											3	3		3		3	
SIGNAL 46											2	2		2		2	
SIGNAL 48												3	3	3		3	
SIGNAL 65A												2	2	2		2	
SIGNAL 69A												3	3	2		3	
PPB#2A												2	2	2		2	
PPB#4	2	2		2	2	4		4		4		4		4		4	
PPB#6A							2	2		2		2		2		2	
NEUTRAL	3	2		3		2		3		2		2		2		2	
SPARES		3		3		3		3		3		3		3		3	
TOTAL #14 WIRES	13	13	9	20	13	30	12	40	13	50	9	74	17	9	10	9	
VIDEO DETECTOR CABLE (BELDEN #8691)																	
PHASE 2A	1	1		1		1		1		1		1		1		1	
PHASE 4					1	1		1		1		1		1		1	
PHASE 6A									1	1		1		1		1	
TOTAL VIDEO CABLES	1	1		1	1	2		2	1	3		3		3		3	
NO. 10 CONDUCTORS - NEUTRAL		1		1		1		1		1		2	1	1		1	
NO. 6 CONDUCTORS (120V SIGNAL SERVICE)																	
PULL ROPE		1		1		1		1		1		2	1	1		1	

CONDUIT AND WIRING SCHEDULE - MISSION BAY BLVD NORTH

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	S
CONDUIT SIZE (INCHES)	2"	2"	2"	3"	2"	2-3"	3"	2"	3"	2"	2"	2"	3"	2"	2"	2"	2"
CONDUCTORS																	
NO. 14 CONDUCTORS																	
SIGNAL 64	3	3		3		3		3		3		3		3		3	
SIGNAL 61	3	3		3		3		3		3		3		3		3	
SIGNAL 68	2	2		2		2		2		2		2		2		2	
SIGNAL 82			3	3		3		3		3		3		3		3	
SIGNAL 889			2	2		2		2		2		2		2		2	
SIGNAL 84					3	3		3		3		3		3		3	
SIGNAL 81					3	3		3		3		3		3		3	
SIGNAL 88					2	2		2		2		2		2		2	
SIGNAL 22							3	3		3		3		3		3	
SIGNAL 65							3	3		3		3		3		3	
SIGNAL 69							3	3		3		3		3		3	
SIGNAL 24							2	2		2		2		2		2	
SIGNAL 21							3	3		3		3		3		3	
SIGNAL 28							3	3		3		3		3		3	
SIGNAL 85							2	2		2		2		2		2	
SIGNAL 89							3	3		3		3		3		3	
SIGNAL 86							2	2		2		2		2		2	
SIGNAL 888							3	3		3		3		3		3	
SIGNAL 25							2	2		2		2		2		2	
SIGNAL 29							3	3		3		3		3		3	
PPB#2							2	2		2		2		2		2	
PPB#6							4	4		4		4		4		4	
PPB#8							2	2		2		2		2		2	
NEUTRAL	2	2		2		2		2		2		2		2		2	
SPARES		3		3		3		3		3		3		3		3	
TOTAL #14 WIRES	13	13	9	20	13	74	44	12	34	13	24	9	17	9	10	9	
VIDEO DETECTOR CABLE (BELDEN #8691)																	
PHASE 2					1	1		1		1		1		1		1	
PHASE 6							1	1		1		1		1		1	
PHASE 8									1	1		1		1		1	
TOTAL VIDEO CABLES	1	1		1	1	3	1	1		1	1	1		1	1	1	
NO. 10 CONDUCTORS - NEUTRAL		1		1		2	1	1		1		1		1		1	
NO. 6 CONDUCTORS (120V SIGNAL SERVICE)																	
PULL ROPE		1		1		2	1	1		1		1		1		1	

THIS DRAWING IS ACCURATE FOR ELECTRICAL WORK ONLY

LEGEND

SYMBOLS

EXISTING

TRAFFIC SIGNAL CONDUIT AND WIRING

VIDEO DETECTION AREA- DIMENSION AS NOTED

DETECTOR LOOP, TYPE OF INSTALLATION AS REQUIRED. SEE CTSP ES-5A, ES-5B, AND ES-5E (TYPE A CURB OR SHOULDER TERMINATION AS APPLICABLE, OR AS NOTED OTHERWISE)

R/S EX VEHICLE SIGNAL FACE AND MOUNTING

VEHICLE SIGNAL FACE - 8"

VEHICLE SIGNAL FACE - 12"

VEHICLE SIGNAL FACE WITH BACK PLATE

VEHICLE SIGNAL FACE WITH ARROW LENSES

MAST ARM MOUNTED SIGNAL FACE (TYPE AS INDICATED)

PEDESTRIAN SIGNAL

PEDESTRIAN PUSH BUTTON, TYPE B. SEE CTSP ES-5C AND APPLICABLE REQUIREMENTS OF SECTION 86-5.02 OF CTSS

GROUND ROD (5/8" X 10'-0")

INTERSECTION CONTROLLER ON "M-SF" FOUNDATION

MASTER TRAFFIC CONTROLLER ON "M-SF" FOUNDATION

BATTERY BACK-UP SYSTEM (BBS)

STREET LIGHT

STANDARD AND FOUNDATION

STEEL LIGHTING STANDARD

P.G.&E. SERVICE POLE

F/I RISER ON EX P.G.&E. SERVICE POLE

TYPE I, TYPE III, OR TYPE IV PULL BOX

JUNCTION BOX

TYPE III PULL BOX WITH EXTENSION

TYPE III PULL BOX WITH EXTENSION -TRAFFIC PULL BOX WITH STEEL COVER

PEDESTRIAN PUSH BUTTON

DUAL PEDESTRIAN PUSH BUTTONS

VIDEO DETECTION CAMERA

SHEET NOTE

LOCATION OF POLE

CONDUIT RUN NUMBERS

LIGHTING CONDUIT RUN

SPARE CONDUIT RUN

INSTALL PULL BOX IN EXISTING CONDUIT RUN, CUT AND MODIFY CONDUIT AS REQUIRED

F/I CONDUIT IN EXISTING PULL BOX

CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS REQUIRED.

DETECTOR HANDHOLE

ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

EQUIPMENT TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR

ABBREVIATIONS

BBS BATTERY BACK-UP SYSTEM

BCM BUREAU OF CONSTRUCTION MANAGEMENT

BSCW BARE STRANDED COPPER WIRE

C CONDUIT

CTSP STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS, BOTH DATED JULY 2002

CTSS

DF DOUBLE FACE

DLC DETECTOR LEAD IN CABLE

DPT DEPARTMENT OF PARKING AND TRAFFIC

DPW DEPARTMENT OF PUBLIC WORKS

DF DOUBLE FACE

DWG DRAWING

EMS EXTINGUISHABLE MESSAGE SIGN

EX EXISTING

F/I FURNISH AND INSTALL UNDER THIS CONTRACT

GND GROUND

GRSC GALVANIZED RIGID STEEL CONDUIT

IC INTERSECTION CONTROLLER

I/P IN PLACE OF

LA LUMINAIRE ARM

PPB PEDESTRIAN PUSH BUTTON

PPBP PEDESTRIAN PUSH BUTTON POST

PV PROGRAMMED VISIBILITY

R/C REMOVE FROM SITE OF WORK AS CONTRACTOR'S PROPERTY

R/R REMOVE AND RELOCATE, OR REMOVE AND REINSTALL AS APPLICABLE

R/S REMOVE AND SALVAGE AS CITY'S PROPERTY

SA SIGNAL ARM

SF SINGLE FACE

SIC SIGNAL INTERCONNECT CABLE

SL STREET LIGHT

SNS SNS STREET NAME SIGN

SPDPWSF STANDARD PLAN, DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF SAN FRANCISCO, SEPTEMBER, 1987.

TS TRAFFIC SIGNAL

TP TROLLEY POLE

UNO UNLESS NOTED OTHERWISE

VDA VIDEO DETECTION AREA

VTS MUNI VEHICLE TAGGING SYSTEM

WP WOOD POLE

12/C 12-CONDUCTOR CABLE

TWP TWISTED PAIR

CCSF CITY AND COUNTY OF SAN FRANCISCO

1-A CALTRANS TYPE OF SIGNAL STANDARD - SEE CTSP.

1S-LED 1-SECTION LED PEDESTRIAN SIGNAL

3S8" 3-SECTION 8" RED, YELLOW, GREEN

3S12" 3-SECTION 12" RED, YELLOW, GREEN

3S12*LA 3-SECTION 12" RED, YELLOW, GREEN LEFT ARROWS

3S12*PV PROGRAMMED VISIBILITY 3-SECTION RED, YELLOW, GREEN

GENERAL NOTES

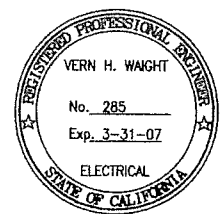
1. THESE ELECTRICAL PLANS ARE DIAGRAMMATIC AND ARE CORRECT FOR GENERAL DESIGN ONLY. THE EXACT LOCATIONS OF EQUIPMENT AND APPURTENANCES SHALL BE DETERMINED IN THE FIELD BY THE BCM OR THE TRAFFIC ENGINEER.

2. SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES SHALL BE APPLICABLE TO THE ATTACHED SIGNALIZATION PLANS.

3. THIS IS A GENERAL LEGEND. NOT ALL SYMBOLS AND/OR ABBREVIATIONS ARE USED.

4. SPECIAL INSTRUCTIONS TO THE CONTRACTOR: IT IS EXPECTED THAT AN ELECTRICAL CONTRACTOR WILL BE ABLE TO INTERPRET THE DESIGNED TRAFFIC PHASING AND THE WIRING SHOWN ON THE PLANS AND ENSURE THAT THE NET RESULTS WILL OPERATE CORRECTLY. ANY IRREGULARITIES SHALL BE BROUGHT TO THE ATTENTION OF THE BCM OR TRAFFIC ENGINEER.

5. EXISTING CONDITIONS SHOWN HEREIN ARE BASED ON INFORMATION PROVIDED BY THE CITY AND COUNTY OF SAN FRANCISCO OR THEIR REPRESENTATIVE. THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S REFERENCE. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS (INCLUDING ALL ELECTRICAL EQUIPMENT, CONDUCTORS AND CONDUIT RUNS). SHOULD CONDITIONS ENCOUNTERED DURING CONSTRUCTION PREVENT THE PERFORMANCE OF WORK AS DELINEATED ON THESE PLANS, THE CONTRACTOR SHALL INSTITUTE REMEDIAL MEASURES AS MAY BE REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM. PROPOSED REMEDIAL MEASURES SHALL BE SUBJECT TO THE REVIEW OF THE BCM AND SHALL BE UNDERTAKEN AT NO EXPENSE TO CCSF.



ELECTRICAL LEGEND
AND GENERAL NOTES

MISSION BAY PROJECT, SAN FRANCISCO, CA

50% SUBMITTAL	6/27/05	90% SUBMITTAL	10/18/05	100% SUBMITTAL	12/22/05	SUBMITTAL TO THE BOARD	02/01/06	100% SUBMITTAL 2	07/07/06	100% SUBMITTAL 3	09/30/06	DATE
DESCRIPTION												

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1045 California Street, Suite 225, Oakland, California 94612

(415) 778-6661 • Fax: (415) 778-6662

DATE: 12/20/05

DESIGNED: ECJ

DRAWN: ASI

CHECKED: -

PROJ. ENGR: ECJ

SCALE: 1"=20'

BAR IS ONE INCH ON ORIGINAL

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY

SHEET

T1.1

JOB NO.

42024