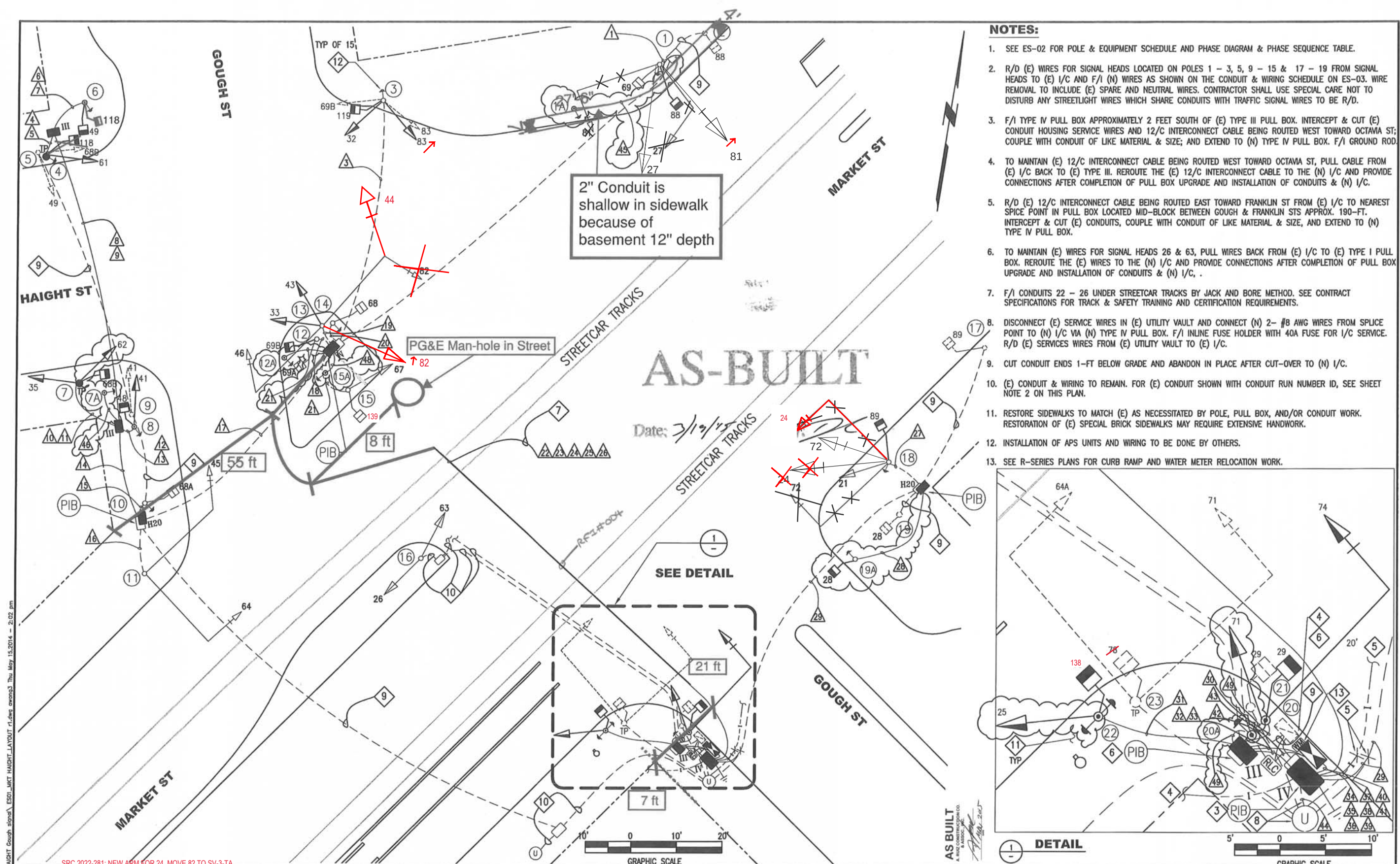




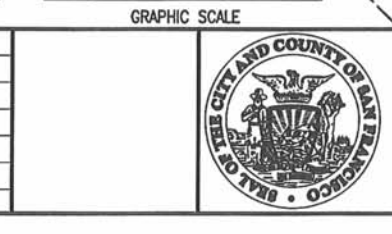
- NOTES:**
- SEE ES-02 FOR POLE & EQUIPMENT SCHEDULE AND PHASE DIAGRAM & PHASE SEQUENCE TABLE.
 - R/D (E) WIRES FOR SIGNAL HEADS LOCATED ON POLES 1 - 3, 5, 9 - 15 & 17 - 19 FROM SIGNAL HEADS TO (E) I/C AND F/I (N) WIRES AS SHOWN ON THE CONDUIT & WIRING SCHEDULE ON ES-03. WIRE REMOVAL TO INCLUDE (E) SPARE AND NEUTRAL WIRES. CONTRACTOR SHALL USE SPECIAL CARE NOT TO DISTURB ANY STREETLIGHT WIRES WHICH SHARE CONDUITS WITH TRAFFIC SIGNAL WIRES TO BE R/D.
 - F/I TYPE IV PULL BOX APPROXIMATELY 2 FEET SOUTH OF (E) TYPE III PULL BOX. INTERCEPT & CUT (E) CONDUIT HOUSING SERVICE WIRES AND 12/C INTERCONNECT CABLE BEING ROUTED WEST TOWARD OCTAVIA ST; COUPLE WITH CONDUIT OF LIKE MATERIAL & SIZE; AND EXTEND TO (N) TYPE IV PULL BOX. F/I GROUND ROD.
 - TO MAINTAIN (E) 12/C INTERCONNECT CABLE BEING ROUTED WEST TOWARD OCTAVIA ST, PULL CABLE FROM (E) I/C BACK TO (E) TYPE III. REROUTE THE (E) 12/C INTERCONNECT CABLE TO THE (N) I/C AND PROVIDE CONNECTIONS AFTER COMPLETION OF PULL BOX UPGRADE AND INSTALLATION OF CONDUITS & (N) I/C.
 - R/D (E) 12/C INTERCONNECT CABLE BEING ROUTED EAST TOWARD FRANKLIN ST FROM (E) I/C TO NEAREST SPICE POINT IN PULL BOX LOCATED MID-BLOCK BETWEEN GOUGH & FRANKLIN STS APPROX. 190'-FT. INTERCEPT & CUT (E) CONDUITS, COUPLE WITH CONDUIT OF LIKE MATERIAL & SIZE, AND EXTEND TO (N) TYPE IV PULL BOX.
 - TO MAINTAIN (E) WIRES FOR SIGNAL HEADS 26 & 63, PULL WIRES BACK FROM (E) I/C TO (E) TYPE I PULL BOX. REROUTE THE (E) WIRES TO THE (N) I/C AND PROVIDE CONNECTIONS AFTER COMPLETION OF PULL BOX UPGRADE AND INSTALLATION OF CONDUITS & (N) I/C.
 - F/I CONDUITS 22 - 26 UNDER STREETCAR TRACKS BY JACK AND BORE METHOD. SEE CONTRACT SPECIFICATIONS FOR TRACK & SAFETY TRAINING AND CERTIFICATION REQUIREMENTS.
 - DISCONNECT (E) SERVICE WIRES IN (E) UTILITY VAULT AND CONNECT (N) 2- #8 AWG WIRES FROM SPLICE POINT TO (N) I/C VIA (N) TYPE IV PULL BOX. F/I INLINE FUSE HOLDER WITH 40A FUSE FOR I/C SERVICE. R/D (E) SERVICES WIRES FROM (E) UTILITY VAULT TO (E) I/C.
 - CUT CONDUIT ENDS 1-FT BELOW GRADE AND ABANDON IN PLACE AFTER CUT-OVER TO (N) I/C.
 - (E) CONDUIT & WIRING TO REMAIN. FOR (E) CONDUIT SHOWN WITH CONDUIT RUN NUMBER ID, SEE SHEET NOTE 2 ON THIS PLAN.
 - RESTORE SIDEWALKS TO MATCH (E) AS NECESSITATED BY POLE, PULL BOX, AND/OR CONDUIT WORK. RESTORATION OF (E) SPECIAL BRICK SIDEWALKS MAY REQUIRE EXTENSIVE HANDWORK.
 - INSTALLATION OF APS UNITS AND WIRING TO BE DONE BY OTHERS.
 - SEE R-SERIES PLANS FOR CURB RAMP AND WATER METER RELOCATION WORK.

Project: 1276 Market Haight Gough signal ES01_MKT HAIGHT_LAYOUT.r1.dwg among3 Thu May 15, 2014 - 2:02 pm

C:\project\draw\1276 Market HALL

SRC 2022-281: NEW ARM FOR 24. MOVE 82 TO SV-3-TA								
6	12/17/22	CHANGE PH8 TO FYRA. NEW SGNL 44. LABEL 7P AS 13P				DYeung	GdeLeon	GdeLeon
5	9/27/22	PER FIELD: CLARIFY LOUVER QUANTITY & POSITION				DYeung	GdeLeon	GdeLeon
4	11/2/18	SRC 2018-411 INSTALL LOUVERS @ 71, 72, 74				ALAM	RLIM	MVELASCO
3	2/11/18	SRC 2017-385 REMOVE MA & REPLACE WITH 12". SGNL 24, 72, 27				DYeung	GdeLeon	GdeLeon
2	2/9/18	SRC 2017-365 REMOVE MA & REPLACE WITH 12". SGNL #81				DYeung	GdeLeon	GdeLeon
1	5/14/04	AS-BUILT WITH NO CHANGES				CH	BBD	JN
ADD VARIOUS PPB AND ETC.								
NO.	DATE	DESCRIPTION				REVISED	CHECKED	APPROVED
REVISIONS								
BORDER REVISED 11/17/05								

DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
RECOMMENDED	
APPROVED	
DATE	



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR of TRANSPORTATION

MUNI METRO SYSTEM MARKET AND HAIGHT STREETS TRANSIT AND PEDESTRIAN IMPROVEMENT PROJECT		1276
MARKET/HAIGHT/GOUGH TRAFFIC SIGNAL MODIFICATION WORK		CL-24581
ES-01	REVISION	
ES-04		6

FOR ORIGINAL SIGNATURES, SEE CL-24581, REV 0

POLE AND EQUIPMENT SCHEDULE (CONTRACT WORK IS SHOWN IN BOLD)									
POLE No	POLE TYPE (& ACCESSORIES)	VEHICLE SIGNAL				PEDESTRIAN SIGNAL			REMARKS
		No	TYPE	MOUNTING	VISORS	No	TYPE	MOUNTING	
①	MARKET STREET POLE	27	3S12" 3S12" 3S12" FYRA	MAS SV-1-T(36") SV-1-T(36")	T T	69	1S-COUNT	SP-1 (R/S)	BACKPLATE x2
1A	PPB POLE	81				88	1S-COUNT (F/I)	SP-2-T (F/I)	
②	TYPE 1-A 7-FT (R/D)	---	---	---	---	88	1S-COUNT (R/S)	TP-1-T (R/S)	---
③	TYPE 1-A 10-FT	69B 83 83 32	3S8" (R/S) 3S8" (R/S) 3S12" FYRA 3S12" (F/I)	TV-2-T (R/S) TV-2-T (F/I)	T (R/S) T (R/S) T (F/I) T (F/I)	119	1S-COUNT (F/I)	SP-1 (F/I)	---
④	TYPE 1-A 10-FT (F/I) (N) MUNI TROLLEY POLE	61	3S12" (F/I)	TV-1-T (F/I) SV-1-T (F/I)	T (F/I)				WIRELESS SENSOR RECEIVER (NOT IN USE)
⑤	CUT-OFF TROLLEY POLE (R/D)	49 68B	3S8" (R/S) 3S8" (R/S)	TV-2-T (R/S)	T (R/S) T (R/S)	---	---	---	---
⑥	TYPE 1-A 7-FT (F/I) TYPE 1-A 10-FT (F/I)	---	---	---	---	49	1S-COUNT (F/I)	TP-1-T (F/I) SP-1 (F/I)	---
⑦	(N) MUNI TROLLEY POLE	35 62	3S12" (F/I) 3S12" (F/I)	SV-1-T (F/I) SV-2-T (F/I)	T (F/I)	118 68B	1S-COUNT (F/I) 1S-COUNT (F/I)	SP-1 (F/I) SP-1 (F/I)	WIRELESS SENSOR RECEIVER
7A	PPB POLE								
⑧	TYPE 1-A 10-FT (F/I)	41	3S12" (F/I)	TV-1-T (F/I)	T (F/I)	48	1S-COUNT (F/I)	SP-1 (F/I)	---
⑨	TYPE 1-A 10-FT (R/D)	41	3S8" (R/S)	TV-1-T (R/S)	T (R/S)	---	---	---	---
⑩	TYPE 1-A 7-FT	---	---	---	---	68A	1S-COUNT	TP-1-T	---
⑪	MARKET STREET POLE	45 64	3S8" 3S8"	MAS MAS	T T	---	---	---	---
⑫	TYPE 1-A 7-FT	---	---	---	---	69A 69B	1S-COUNT 1S-COUNT (F/I)	TP-1-T (R/S) TP-2-T (F/I)	---
12A	PPB POLE								
⑬	MARKET STREET POLE	46 44 33 43 82	3S8" 3S8" 3S12" (F/I) 3S12" (F/I) 3S12" FYRA	MAS MAS SV-3-TA w/ flex conduit	T T T (F/I) T (F/I) T	---	---	---	
⑭	TYPE 1-A 7-FT	---	---	---	---	68	1S-COUNT	TP-1-T	---
⑮	TYPE 1-A 10-FT	67	3S12"	TV-1-T	T	139	1S-COUNT	SP-1	---
15A	PPB POLE								
⑯	TYPE 1-A 10-FT	26 63	3S12" 3S12"	TV-2-T	T T	---	---	---	---
⑰	TYPE 1-A 7-FT (R/D)	---	---	---	---	89	1S-COUNT (R/S)	TP-1-T (R/S)	---
⑱	MARKET STREET POLE	21 24 72	3S12" 3S12" 3S8" 3S12"	SV-1 MARKET ST ARM MAS SV-1-T(36")	T T T T	89	1S-COUNT (F/I)	SP-1 (F/I)	BACKPLATE x2 HORIZONTAL LOUVER ON 72 GREEN BALL ONLY LOUVER ROTATED 45 DEGREES COUNTERCLOCKWISE FROM HORIZONTAL
⑲	TYPE 1-A 7-FT (R/D)	---	---	---	---	28	1S-COUNT (R/S)	TP-1-T (R/S)	---
19A	TYPE 1-A 10-FT (F/I)	---	---	---	---	---	1S-COUNT (F/I)	SP-1 (F/I)	---
⑳	16-1-100 W/ 20' MASTARM (F/I)	74 71	3S12" (F/I) 3S12" (F/I)	MAS (F/I) SV-1-T	T (F/I) T (F/I)	29		SP-1 (F/I)	HORIZONTAL LOUVER ON 71 & 74 GREEN BALL ONLY LOUVER ROTATED 45 DEGREES COUNTERCLOCKWISE FROM HORIZONTAL
20A	PPB POLE								
㉑	TYPE 1-A 7-FT (R/D)	---	---	---	---	29	1S-COUNT (R/S)	TP-1-T (R/S)	---
㉒	TYPE 1-A 7-FT (F/I) TYPE 1-A 10-FT (F/I)	25	3S12" (F/I)	TV-1-T	T (F/I)	138	1S-COUNT (F/I)	TP-1-T (F/I)	SP-1-T
㉓	MARKET STREET POLE LOLLY POP MAST ARM X 2 (R/S)	64A 71	3S8" (R/S) 3S8" (R/S)	MAS (R/S) MAS (R/S)	T (R/S) T (R/S)	78	1S-COUNT (R/S)	SP-1 (R/S)	

NOTES:

- SEE ES-01 FOR TRAFFIC SIGNAL MODIFICATION WORK LAYOUT. SEE ES-03 FOR CONDUIT & WIRING SCHEDULE.
- F/I BACKPLATE FOR 3S12" VEHICLE SIGNAL WITH MAS MOUNTING.
- DUE TO MARKET STREET PORCELAIN FINISH, CONTRACTOR SHALL NOT DRILL INTO POLE. ROUTE TRAFFIC SIGNAL WIRES IN 1" WATERPROOF FLEXIBLE CONDUIT FROM HANDHOLE LOCATED ON (E) LOWER TRAFFIC SIGNAL MAST ARM TO TOP OF (N) TRAFFIC SIGNAL MOUNTING BRACKET FRAMEWORK. THE TOTAL NUMBER OF BENDS IN THE WATERPROOF FLEXIBLE CONDUIT SHALL NOT EXCEED 270 DEGREES. CONTRACTOR SHALL PROVIDE A SKETCH OF THIS WORK FOR APPROVAL BY THE SFMTA TRAFFIC SIGNAL SHOP THROUGH THE ENGINEER BEFORE COMMENCEMENT OF WORK.
- SEE OV-SERIES PLANS FOR TROLLEY POLE REMOVAL OR INSTALLATION WORK.

NOTE: 3S12"FYRA = RED BALL, YELLOW BALL, FLASHING YELLOW RIGHT ARROW

AS-BUILT

Date: 3/19/15 By: D. Leach

AS BUILT
A TRUE & ACCURATE
REPRODUCTION
OF THE ORIGINAL
DESIGN
DATE: 3/19/15

C:\project\1276 Market HIGHT GOUGH signed\ES02_MKT_HIGHT_POLE_SCHED_1.dwg esw03 Thu May 15 2014 - 2:11 pm

6	12/17/22	CHANGE PH8 TO FYRA, NEW SGNL 44, LABEL 7P AS 13P	DYeung GdeLeon GdeLeon
5	9/27/22	PER FIELD: CLARIFY LOUVER QUANTITY & POSITION	DYeung GdeLeon GdeLeon
4	11/2/18	SRC 2018-411 INSTALL LOUVERS @ 71, 72, 74	ALAM RLIM MVELASCO
3	2/11/18	SRC 2017-395 REMOVE MA & REPLACE WITH 12"; SGNL 24, 72, 74	DYeung GdeLeon GdeLeon
2	2/9/18	SRC 2017-365 REMOVE MA & REPLACE WITH 12"; SGNL #81	DYeung GdeLeon GdeLeon
2	3/8/2016	AS-BUILT, REVISED AS SHOWN	
1	5/14/04	ADD VARIOUS PPB AND ETC.	CH BBD JN
NO.	DATE	DESCRIPTION	REVISED CHECKED APPROVED
REVISIONS			

DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
RECOMMENDED	
APPROVED	
DATE	



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
APPROVED
for the DIRECTOR of TRANSPORTATION

MUNI METRO SYSTEM
MARKET AND HAIGHT STREETS
TRANSIT AND PEDESTRIAN IMPROVEMENT PROJECT
MARKET/HAIGHT/GOUGH
POLE & EQUIPMENT AND PHASE DIAGRAM & SEQUENCE TABLES

1276
CL-24582
ES-02
ES-04
6

CONDUIT & WIRING SCHEDULE (F/I UON)

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	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		
CONDUIT SIZE (INCH)		2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	
NOTES		(E)	(E)	(E)												(E)	(E)	(E)	(E)	(E)	(E)	(E)	GRSC	GRSC	GRSC	GRSC	GRSC	(E)	(E)	(E)																						
5	#14 WIRES																																																			
	VEH SIG 27: POLE 1	3	3																				3																													
	VEH SIG 81: POLE 1	3	3																				3																													
	PED SIG 69: POLE 1	2	2																				2																													
	PED SIG 88: POLE 1	2	2																				2																													
	VEH SIG 32: POLE 3				3																		3																													
	VEH SIG 83: POLE 3				3																		3																													
	PED SIG 119: POLE 3				2																		2																													
	VEH SIG 61: POLE 4				3				3							3			3					3																												
	PED SIG 118: POLE 6				2				2							2			2					2																												
	PED SIG 49: POLE 6					2										2			2					2																												
	VEH SIG 35: POLE 7															3			3				3																													
	VEH SIG 62: POLE 7															3			3				3																													
	PED SIG 68B: POLE 7															2			2				2																													
	VEH SIG 41: POLE 8																		3				3																													
	PED SIG 48: POLE 8																		2				2																													
	PED SIG 68A: POLE 10																		2					2																												
	VEH SIG 45: POLE 11																		3				3																													
	VEH SIG 64: POLE 11																		3				3																													
	PED SIG 69A: POLE 12																							2																												
	PED SIG 69B: POLE 12																		2					2																												
	VEH SIG 33: POLE 13																							3																												
	VEH SIG 43: POLE 13																							3																												
	VEH SIG 46: POLE 13																							3																												
	VEH SIG 82: POLE 13																							3																												
	PED SIG 68: POLE 14																						2																													
	VEH SIG 67: POLE 15																							3																												
	PED SIG 79: POLE 15																						2																													
	VEH SIG 21: POLE 18																								3																											
	VEH SIG 24: POLE 18																							3																												
	VEH SIG 72: POLE 18																							3																												
	PED SIG 89: POLE 18																							2																												
	PED SIG 28: POLE 19A																								2																											
	VEH SIG 74: POLE 20																																																			
	VEH SIG 71: POLE 20																																																			
	PED SIG 29: POLE 20																																																			
	PED SIG 25: POLE 22																																																			
	PED SIG 78: POLE 22																																																			
	NEUTRAL	3				2					2					1	2		1	3	1	2																														
	SPARE		3					3							6		9						6	9	3																											
	TOTAL #14 WIRES	13	13	8	7		3		10		10		7		26	3	8		37	5	15	3	7	24	37	26		15	3	16	11	7	13		24	37	26	16														
	TOTAL #10 WIRES (NEUTRAL)		1	1				1							2				3					2	3	1																										
	#8 WIRES (120V SERVICE)																																																			
	CONDUIT RUN NUMBER	1																																																		

NOTES:

- SEE ES-01 FOR TRAFFIC SIGNAL MODIFICATION WORK LAYOUT. SEE ES-02 FOR POLE & EQUIPMENT SCHEDULE, AND PHASE DIAGRAM & SEQUENCE TABLES.
- SEE ES-01 SHEET NOTES #1, 3, 4, & 5 FOR ADDITIONAL INFORMATION REGARDING TRAFFIC SIGNAL WIRING WORK.
- SEE ES-01 SHEET NOTES #3 & #4 FOR 12/C INTERCONNECT CABLE REROUTING WORK.
- SEE ES-01 SHEET NOTES #3 & #9 FOR ADDITIONAL INFORMATION REGARDING 120V SERVICE WIRE INSTALLATION WORK.
- IN POLE #3 HANDHOLE, SPLICE OFF (N) 1- #10 WITH 2- #14 AWG WIRES FOR SIGNAL HEAD NEUTRALS.
- F/I (N) GROUND WIRES PER GROUNDING LAYOUT DETAIL ON STD DWG 88,739.

AS-BUILT

Date: 3/17/15

By: P. Paul

AS BUILT
A. RUIZ CONSTRUCTION CO.
& ASSOCIATES, INC.

MUNI METRO SYSTEM
MARKET AND HAIGHT STREETS
TRANSIT AND PEDESTRIAN IMPROVEMENT PROJECT

MARKET AND HAIGHT ST
CONDUIT & WIRING SCHEDULE

1276
CL-24583

ES-03
ES-04 AB



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

for the DIRECTOR of TRANSPORTATION

DESIGNED
DRAWN
CHECKED
REVIEWED
RECOMMENDED
APPROVED
DATE

CH BBD JN
REVISIONS