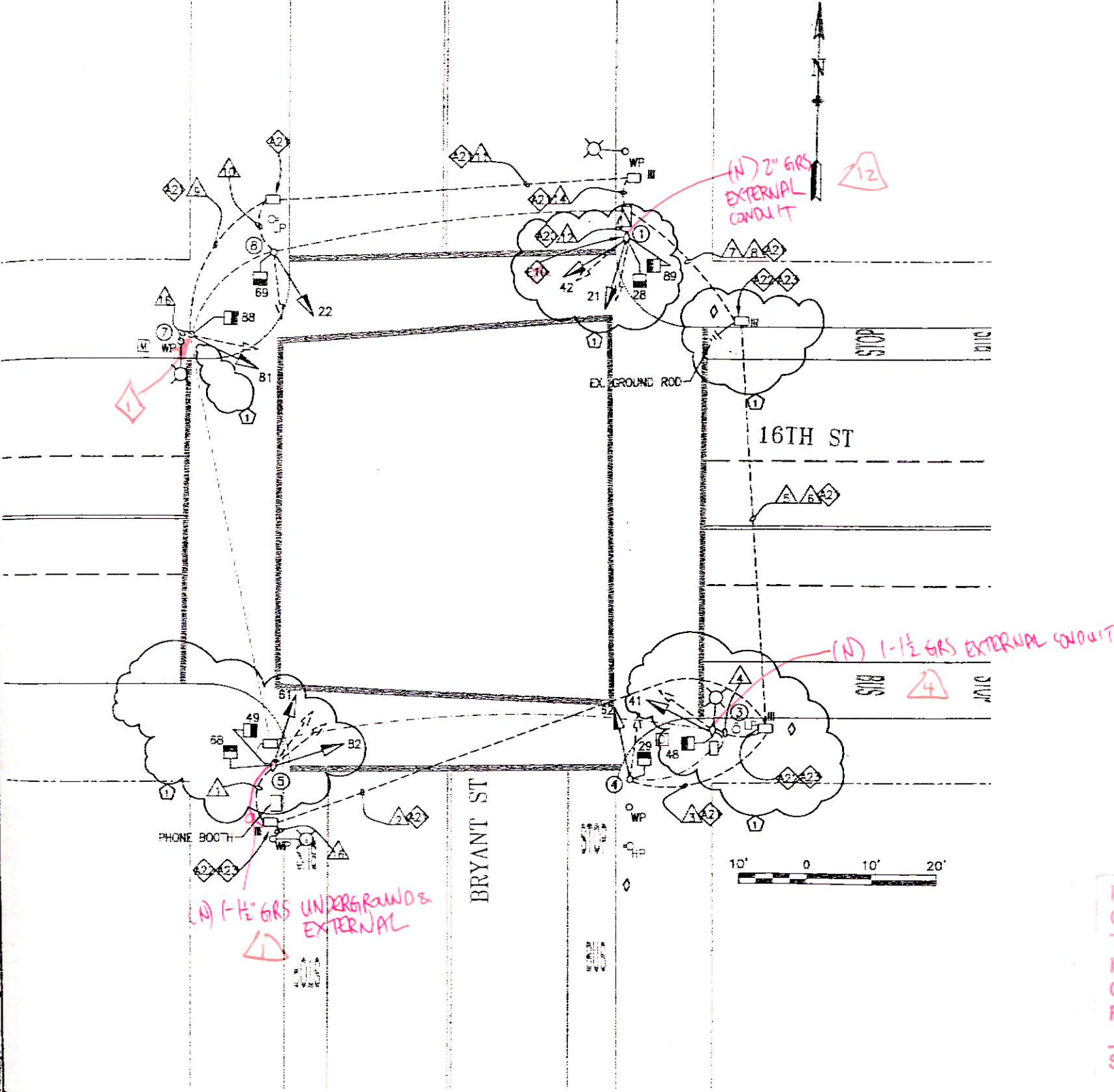


PED SIGNALS ACTIVATED AS PART OF CT 32 ON 2/10/09



DETAIL NOTES:

- 44 R/C EX CONDUIT AND WIRING. REPAIR SIDEWALK TO MATCH EX.
- 14 AFTER NEW SIGNALS HAVE BEEN ACTIVATED, PULL UNUSED EX. TS WIRING TO CLOSEST PS AND LABEL AS SPARES. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12\"/>
- 20 AFTER NEW SIGNALS HAVE BEEN ACTIVATED, R/C UNUSED EX. TS WIRING.
- 42 EX. CONDUIT AND TS WIRING TO REMAIN. F/I NEW WIRING AS NOTED.
- 42 SPLICE NEW #14 NEUTRALS TO EX. #10 TS NEUTRAL. IF NEEDED, AFTER NEW SIGNALS HAVE BEEN ACTIVATED, DISCONNECT AND REMOVE UNUSED EX. #14 TS NEUTRALS FROM EX. #10 TS NEUTRAL.
- 42 SPLICE NEW #6 BSCW TO EX. BSCW GROUNDING SYSTEM. IF NEEDED, AFTER NEW SIGNALS HAVE BEEN ACTIVATED, DISCONNECT AND REMOVE UNUSED BSCW FROM EX. GROUNDING SYSTEM.
- 49 CHIP FOUNDATION CAREFULLY TO BRING CONDUIT INTO BASE OF STANDARD OR CONTROLLER CABINET AND REPAIR AFTER INSTALLATION.
- 44 R/C EX PULL BOX. REPAIR SIDEWALK AND/OR PAVEMENT TO MATCH EX OR AS REQUIRED.
- 43 F/I NEW EXTERNAL CONDUIT FOR VEHICLE SIGNAL AND PED SIGNAL. SURFACE MOUNTED CONDUIT SHALL BE INSTALLED ON THE SIDE OPPOSITE THE ROADWAY OR INTERSECTION, JON.
- 41 F/I NEW TS WIRING IN EXISTING EXTERNAL CONDUIT.
- 49 RELOCATE AND RE-INSTALL SL ARM TO MUNI POLE AS SHOWN. RE-PULL EX. SL WIRING IN NEW CONDUIT.
- 44 CONTRACTOR SHALL REMOVE AND SALVAGE MUNI POLE AND DELIVER TO MUNI YARD LOCATED AT 1401 BRYANT STREET. CALL RICH HAHN FROM MUNI AT (415) 554-9223 WITH 72 HOURS ADVANCE NOTICE TO SCHEDULE DELIVERIES.

1 Service wires are at base of pole

AS-BUILT

Date:

By:

huf

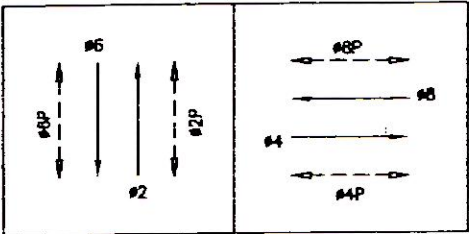
PLANS ARE TO BE RETURNED WITH CORRECTIONS MADE AND CERTIFIED TO IN RED INK AND DATED BY THE INSPECTOR IN CHARGE UPON COMPLETION OF THE WORK BEFORE FINAL PAYMENT CAN BE MADE.

Timothy C. Chen 11/5/09
SIGNED-INSPECTOR

NOTE:
THIS AUTOCAD DRAWING HAS BEEN REVISED AND REPLOTTED 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.

POLE AND EQUIPMENT SCHEDULE										CONTRACT WORK IN BOLD>
POLE No.	TYPE OF POLE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
		No.	TYPE	MOUNTING	VISORS	LOWERS	No.	TYPE	MOUNTING	
①	EX. MUNE (FEEDER)	21 42	3812" 3812"	SV-2-T-SF	T T		28 89	18-COUNT 18-COUNT	SP-2-T-SF	USE EXISTING EXTERNAL CONDUIT FOR NEW TS WIRING
②	NOT USED									
③	EX. MUNE W/ 6' LUMINAIRE ARM AND LUMINAIRE	41	3812"	SV-1-T	T		45	18-COUNT	SP-1-T	
④	EX. STEEL PEDESTAL(10')	62	3812"	TV-1-T	T		29	18-COUNT	SP-1	
⑤	EX. MUNE	81 82	3812" 3812"	SV-2-T-SF	T		49 68	18-COUNT 18-COUNT	SP-1-SF(12") SP-1(22")	
⑥	NOT USED									
⑦	EX. STEEL PEDESTAL(10')	81	3812"	TV-1-T	T		88	18-COUNT	SP-1	
⑧	EX. STEEL PEDESTAL(10')	22	3812"	TV-1-T	T		69	18-COUNT	SP-1	

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R	BRYANT ST (NB AND SB) - #2 AND #6	
R	G	Y	R	16TH ST (EB AND WB) - #4 AND #8
WM	FRH	RH	PED XING 16TH ST (E/S AND W/S) - 2P AND 8P	
RH	WM	FRH	RH	PED XING BRYANT ST (S/S AND N/S) - 4P AND 8P



AS-BUILT

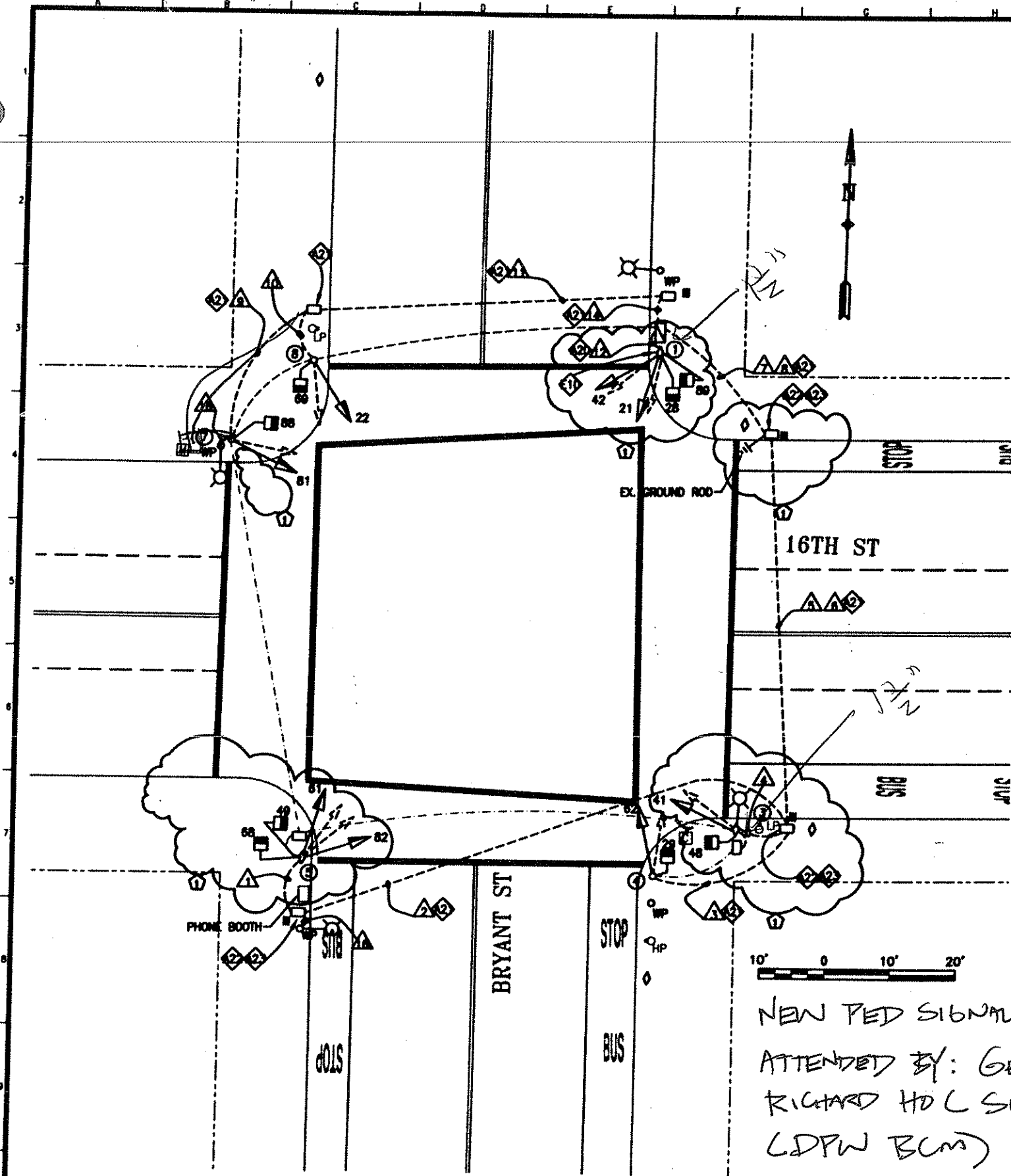
Date:

By:

PLANS ARE TO BE RETURNED WITH CORRECTIONS MADE AND CERTIFIED TO IN RED INK AND DATED BY THE INSPECTOR IN CHARGE UPON COMPLETION OF THE WORK BEFORE FINAL PAYMENT CAN BE MADE.

Sumathy C/ten 11/5/09
SIGNED-INSPECTOR

REFERENCE INFORMATION & FILE NO. OF SURVEYS		BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF SAN FRANCISCO		DESIGNED: DATE GD 10/07 DRAWN: DATE CXL 10/07 CHECKED: DATE BC 10/07	APPROVED SECTION MANAGER DATE DEPUTY BUREAU MANAGER DATE CITY ENGINEER DATE	SCALE NONE SHEET OF SHEETS 57 of 78	CONTRACT 32 TRAFFIC SIGNAL MODIFICATIONS 16TH ST & BRYANT ST SCHEDULE	SPECIFICATION NO. 0985J DRAWING NO. E-17.1 FILE NO. 87.523 REV. NO. 1
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DETAIL NOTES:

- ④ R/C EX CONDUIT AND WIRING. REPAIR SIDEWALK TO MATCH EX.
- ① AFTER NEW SIGNALS HAVE BEEN ACTIVATED, PULL UNUSED EX. TS WIRING TO CLOSEST PB AND LABEL AS SPARES. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12" DEPTH, CAP OR DUCT SEAL END(S).
- ② AFTER NEW SIGNALS HAVE BEEN ACTIVATED, R/C UNUSED EX. TS WIRING.
- ② EX. CONDUIT AND TS WIRING TO REMAIN. F/I NEW WIRING AS NOTED.
- ② SPLICE NEW #14 NEUTRALS TO EX. #10 TS NEUTRAL. IF NEEDED, AFTER NEW SIGNALS HAVE BEEN ACTIVATED, DISCONNECT AND REMOVE UNUSED EX. #14 TS NEUTRALS FROM EX. #10 TS NEUTRAL.
- ② SPLICE NEW #6 BSCW TO EX. BSCW GROUNDING SYSTEM. IF NEEDED, AFTER NEW SIGNALS HAVE BEEN ACTIVATED, DISCONNECT AND REMOVE UNUSED BSCW FROM EX. GROUNDING SYSTEM.
- ④ CHIP FOUNDATION CAREFULLY TO BRING CONDUIT INTO BASE OF STANDARD OR CONTROLLER CABINET AND REPAIR AFTER INSTALLATION.
- ④ R/C EX PULL BOX. REPAIR SIDEWALK AND/OR PAVEMENT TO MATCH EX OR AS REQUIRED.
- ④ F/I NEW EXTERNAL CONDUIT FOR VEHICLE SIGNAL AND PED SIGNAL SURFACE MOUNTED CONDUIT SHALL BE INSTALLED ON THE SIDE OPPOSITE THE ROADWAY OR INTERSECTION, UOM.
- ① F/I NEW TS WIRING IN EXISTING EXTERNAL CONDUIT.
- ④ RELOCATE AND RE-INSTALL SL ARM TO MUNI POLE AS SHOWN. REPULL EX. SL WIRING IN NEW CONDUIT.
- ④ CONTRACTOR SHALL REMOVE AND SALVAGE MUNI POLE AND DELIVER TO MUNI YARD LOCATED AT 1401 BRYANT STREET. CALL RICH HAHN FROM MUNI AT (415) 554-9223 WITH 72 HOURS ADVANCE NOTICE TO SCHEDULE DELIVERIES.

* BASED ON FIELD SURVEY ON 1/4/08, CONTRACTOR WAS DIRECTED TO TO INSTALL NEW EXTERNAL CONDUIT ON POLES 1, 3, AND 5. NEW FIELD WIRING FOR VEHICLE SIGNALS ALSO TO BE RUN.

NOTE:
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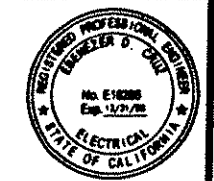
NO.	DATE	DESCRIPTION	BY	APP.
①	8/29/08	PCD #1: VARIOUS CHANGES BASED ON POLE LAYOUT	JS	SL

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: 10/7
GD/EF
DRAWN: DATE: 10/07
CKL
CHECKED: DATE: 10/07
BC

APPROVED
SECTION MANAGER DATE:
DEPUTY BUREAU MANAGER DATE:
CITY ENGINEER DATE:

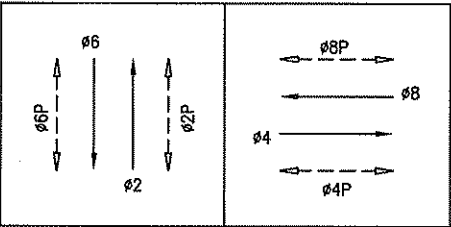
SCALE:
AS SHOWN
SHEET OF SHEETS
56 of 78

CONTRACT 32
TRAFFIC SIGNAL MODIFICATIONS
16TH ST & BRYANT ST

SPECIFICATION NO. 0985J
DRAWING NO. E-17.0
FILE NO. 87.522
REV. NO. 1

POLE AND EQUIPMENT SCHEDULE										CONTRACT WORK IN BOLD
POLE No.	TYPE OF POLE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
		No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	EX. MUNI (FEEDER)	21 42	3S12" 3S12"	SV-2-T-SF	T T		28 89	1S-COUNT 1S-COUNT	SP-2-T-SF	USE EXISTING EXTERNAL CONDUIT FOR NEW TS WIRING
②	NOT USED									
③	EX. MUNI W/ 6' LUMINAIRE ARM AND LUMINAIRE	41	3S12"	SV-1-T	T		48	1S-COUNT	SP-1-T	
④	EX. STEEL PEDESTAL(10')	62	3S12"	TV-1-T	T		29	1S-COUNT	SP-1	
⑤	EX. MUNI	61 82	3S12" 3S12"	SV-2-T-SF	T		49 68	1S-COUNT 1S-COUNT	SP-1-SF(12") SP-1(22")	
⑥	NOT USED									
⑦	EX. STEEL PEDESTAL(10')	81	3S12"	TV-1-T	T		88	1S-COUNT	SP-1	
⑧	EX. STEEL PEDESTAL(10')	22	3S12"	TV-1-T	T		69	1S-COUNT	SP-1	

PHASE DIAGRAM



PHASE SEQUENCE

G	Y	R	BRYANT ST (NB AND SB) - 2 AND 6	
R	G	Y	R	16TH ST (EB AND WB) - 4 AND 8
WM	FRH	RH	PED XING 16TH ST (E/S AND W/S) - 2P AND 6P	
RH	WM	FRH	RH	PED XING BRYANT ST (S/S AND N/S) - 4P AND 8P

1		8/29/08	PCO #1: VARIOUS CHANGES BASED ON POLE LAYOUT	JS	SL
NO.	DATE	DESCRIPTION	BY	APP.	
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:
GD	10/07
DRAWN:	DATE:
CXL	10/07
CHECKED:	DATE:
BC	10/07

APPROVED	
SECTION MANAGER	DATE:
DEPUTY BUREAU MANAGER	DATE:
CITY ENGINEER	DATE:

SCALE:
NONE
SHEET OF SHEETS
57 of 78

CONTRACT 32 TRAFFIC SIGNAL MODIFICATIONS	
16TH ST & BRYANT ST SCHEDULE	

SPECIFICATION NO.	0985J
DRAWING NO.	E-17.1
FILE NO.	87,523
REV. NO.	1

