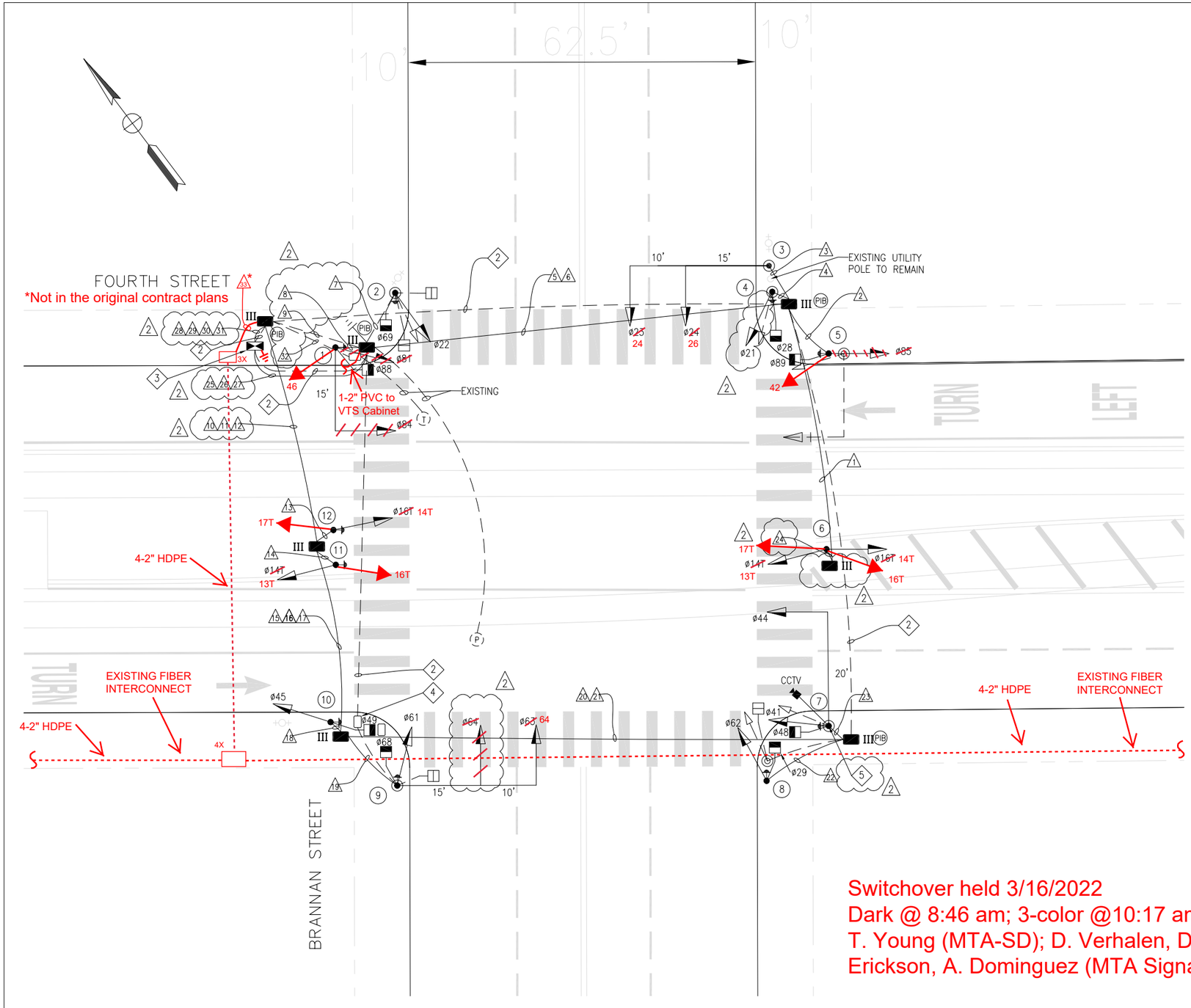

NOTES:

1. SEE DRAWING ET-108 FOR POLE, EQUIPMENT, CONDUIT, AND WIRING SCHEDULES.
2. ABANDON (E) CONDUIT IN PLACE. PULL BACK (E) WIRING, AND CAP ENDS.
3. ~~PROVIDE (N) TRAFFIC SIGNAL CONTROLLER AND (N) FOUNDATION IN SAME LOCATION AS (E) CONTROLLER.~~
4. R/C (E) PULLBOX.
5. ~~F/I CCTV CAMERA ETHERNET CABLE (CAT6a & 3#18) FROM INTERSECTION CONTROLLER CABINET TO NEAR TOP OF CAMERA POLE. COIL EXTRA 10' ETHERNET CABLE AT BOTH ENDS. SEE CAMERA INSTALLATION DETAILS ON SHEET R-5. DRILL HOLE ON POLE AS DIRECTED BY TRAFFIC SIGNAL SHOP (415-646-2373).~~

~~PROPOSED PHASE DIAGRAM~~

Switchover held 3/16/2022
Dark @ 8:46 am; 3-color @10:17 am
T. Young (MTA-SD); D. Verhalen, D. Guevara, J. Erickson, A. Dominguez (MTA Signal Shop)

10' 0 10' 20'
GRAPHIC SCALE

DATE	DESCRIPTION	REV. NO.	BY	CHECKED	APPROVED
2/3/2017	75% SUBMITTAL	0			

SFMTA

DESIGNED G. WING
DRAWN G. WING
CHECKED C. HUI
REVIEWED B. DUSSEAULT
RECOMMENDED C. MORGANSON
APPROVED R. EDWARDS
DATE 2/3/2017

REV. 0
SEALED BY
W. SENG

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
APPROVED
EDWARD D. REISKIN
DIRECTOR OF TRANSPORTATION

THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 – CENTRAL SUBWAY
SURFACE, TRACK AND SYSTEMS

TRAFFIC SIGNALS
BRANNAN STREET AND FOURTH STREET
TRAFFIC SIGNAL PLAN

CONTRACT NO. 1300
SFMTA CONTROL NO. CL-23605
DRAWING NO. ET-107
REVISION 0
SHEET NO. 817

T:\T_E_FILES\Construction Section_PERSONNEL\GWing\Projects\Central Subway STS\Signal Mods\3 Brannan\ 4th_Brannan TS.dwg
gwing Fri Jun 09,2017 - 1:51 pm ET-102

BORDER REVISED 11/04/2011

*Not in the original contract plans

POLE AND EQUIPMENT SCHEDULE ⟨1⟩

POLE NO.	TYPE OF POLE	VEHICLE SIGNAL NO.	VEHICLE SIGNAL TYPE	VEHICLE SIGNAL MOUNTING	VEHICLE SIGNAL VISORS	PEDESTRIAN SIGNAL NO.	PEDESTRIAN SIGNAL TYPE	PEDESTRIAN SIGNAL MOUNTING	REMARKS
1	MUNI COMBO POLE WITH 15' MAST ARM	~~21~~ 46 ~~84~~	3S12" ~~3S12"~~	SV-1-T ~~MAS~~	T ~~T~~	88	1S-COUNT	SP-1	APS
2	TYPE 1A (10')	22	3S12"	TV-1-T	T	69	1S-COUNT	SP-1	APS
3	TYPE 19-2-100 WITH 25' MAST ARM	~~25~~ 26 24	3S12" 3S12"	MAS MAS	T T	-	-	-	⟨2⟩
4	TYPE 1A (~~7~~ 10') ⟨2⟩	21	3S12"	TV-1-T	T	28	1S-COUNT	SP-1	APS
5	MUNI COMBO POLE	~~25~~ 42	3S12"	SV-1-T	T	89	1S-COUNT	SP-1	APS
6	TYPE 1A (10')	LRV 14T LRV 16T	2S12" 2S12"	TV-2-T	T T	-	-	-	
7	MUNI COMBO POLE WITH 20' MAST ARM	41 44	3S12" ⟨2⟩ 3S12"	SV-1-T MAS	T T	48	1S-COUNT	SP-1	APS
8	MUNI COMBO POLE	62	3S12"	SV-1-T	T	29	1S-COUNT	SP-1	APS
9	MUNI COMBO POLE WITH 25' MAST ARM ⟨2⟩	~~61~~ ~~63~~ ~~64~~	~~3S12"~~ ~~3S12"~~ ~~3S12"~~	~~SV-1-T~~ ~~MAS~~ ~~MAS~~	~~T~~ ~~T~~ ~~T~~	68	1S-COUNT	SP-1	APS
10	MUNI COMBO POLE	45	3S12"	SV-1-T	T	49	1S-COUNT	SP-1	APS
11	TYPE 1A (10')	LRV 14T	2S12"	TV-1-T	T	-	-	-	APS
12	TYPE 1A (10')	LRV 16T	2S12"	TV-1-T	T	-	-	-	APS

NOTES:

1. SEE ET-107 FOR TRAFFIC SIGNAL WORK AT 4TH AND BRANNAN INTERSECTION.
2. ALL (N) CONDUIT SHALL BE SIZED AS NOTED AND PVC MATERIAL, UON.
3. F/I GROUND WIRE IN ALL CONDUITS PER GROUNDING LAYOUT DETAIL ON ET-152.
4. F/I 3/8" PULL TAPE IN ALL SPARE CONDUITS AND IN ALL CONDUITS CONTAINING FIELD WIRES WHICH CROSS A STREET.
5. SEE STANDARD DRAWING FOR TRAFFIC SIGNAL HEAD MOUNTING BRACKET DETAILS.
6. THE HEIGHT OF THE CANTILEVER ARM CONNECTION SHALL BE 24' FROM THE BASE OF POLE.

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	26	27	28	29	30	31	32	⟨3⟩ 33
CONDUIT SIZE (INCH) ⟨2⟩⟨3⟩	2	2	2	2	2	2	EX	2	EX	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	EX	2
NOTES																																	
#14 AWG WIRES						S			S																								
VEH SIGNAL ~~21~~ 46						P		3	P																3								
~~VEH SIGNAL 84~~						A		3	A																3								
PED SIGNAL 88						R		2	R																2								
APS PPB FOR POLE 1						E		2	E																2								
VEH SIGNAL 22 (E)							3																		3								
PED SIGNAL 69 (E)						S	2		S																2								
APS PPB FOR POLE 2						P	2		P																2								
VEH SIGNAL ~~25~~ 26			3		3	A			A																3								
VEH SIGNAL 24			3		3	R			R																3								
VEH SIGNAL 21				3	3	E			E																	3							
PED SIGNAL 28				2	2																					2							
APS PPB FOR POLE 4				2	2	S			S																	2							
VEH SIGNAL ~~35~~ 42		3			3	P			P																	3							
PED SIGNAL 89		2			2	A			A																	2							
APS PPB FOR POLE 5		2			2	R			R																	2							
LRV SIGNAL ~~14T~~ 13T	2				2	E			E															2		2							
~~LRV SIGNAL 16T~~	~~2~~				~~2~~																			~~2~~		~~2~~							
LRV SIGNAL ~~16T~~ 14T	2				2																			2		2							
~~LRV SIGNAL 17T~~	~~2~~				~~2~~																			~~2~~		~~2~~							
VEH SIGNAL 41						S			S	3					3					3			3					3					
VEH SIGNAL 44						P			P	3					3					3			3					3					
PED SIGNAL 48						A			A	2					2					2			2					2					
APS PPB FOR POLE 7						R			R	2					2					2			2					2					
PED SIGNAL 29						E			E		2				2					2		2							2				
VEH SIGNAL 62											3				3					3		3							3				
APS PPB FOR POLE 8						S			S		2				2					2		2							2				
VEH SIGNAL 61						P			P	3						3			3										3				
~~VEH SIGNAL 63~~						A			A	3						3			3										3				
VEH SIGNAL 64						R			R	3						3			3										3				
PED SIGNAL 68						E			E	2						2			2										2				
APS PPB FOR POLE 9										2						2			2										2				
VEH SIGNAL 45											3					3		3												3				
PED SIGNAL 49											2					2		2												2				
APS PPB FOR POLE 10											2					2		2												2				
LRV SIGNAL ~~14T~~ 13T											2			2																2				
~~LRV SIGNAL 16T~~											~~2~~			~~2~~																2				
APS PPB FOR POLE 11											2			2																2				
LRV SIGNAL ~~16T~~ 14T											2		2																	2				
~~LRV SIGNAL 17T~~											~~2~~		~~2~~																	2				
APS PPB FOR POLE 12											2		2																	2				
#14 SPARE	3				3				3	3					3	3				3					3			3	3				
#14 NEUTRAL		2	2	2		2	3					1	1					2	4			2	3	1									
TOTAL #14 AWG WIRES	~~7~~ 11	9	8	9	~~27~~ 31	0	9	~~13~~ 10	0	~~26~~ 23	~~25~~ 29	0	~~5~~ 7	~~5~~ 7	20	~~23~~ 20	0	8	~~13~~ 10	20	0	9	13	~~9~~ 5	~~25~~ 20	~~21~~ 25	0	~~26~~ 23	~~25~~ 29	0	0	0	
TOTAL #10 AWG WIRES, NEUTRAL	1				2					2	1				1	1				1					2	1		2	2				
12/C INTERCONNECT																														2		2	
#8 AWG WIRES (120V SERVICE)																												2					
~~CCTV CAMERA WIRES (CAT 6a & 3#18)~~												~~1~~					~~1~~				~~1~~		~~1~~							~~1~~			
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⟩

WIRING (F/I)

⟨2⟩

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gwing Fri Jun 09,2017 - 1:58 pm ET-105

DATE	DESCRIPTION	REV. NO.	BY	CHECKED	APPROVED
2/3/2017	75% SUBMITTAL	⟨0⟩			

SFMTA

DESIGNED G. WING
DRAWN G. WING
CHECKED C. HUI
REVIEWED B. DUSSEAULT
RECOMMENDED C. MORGANSON
APPROVED R. EDWARDS
DATE 2/3/2017

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY
APPROVED
EDWARD D. REISKIN
DIRECTOR OF TRANSPORTATION

THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 – CENTRAL SUBWAY
SURFACE, TRACK AND SYSTEMS

TRAFFIC SIGNALS
BRANNAN STREET AND FOURTH STREET
POLE & EQPT AND CONDUIT & WIRING SCHED

CONTRACT NO. 1300
SFMTA CONTROL NO. CL-23609
DRAWING NO. ET-108
REVISION 1
SHEET NO. 818

BORDER REVISED 11/04/2011

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