

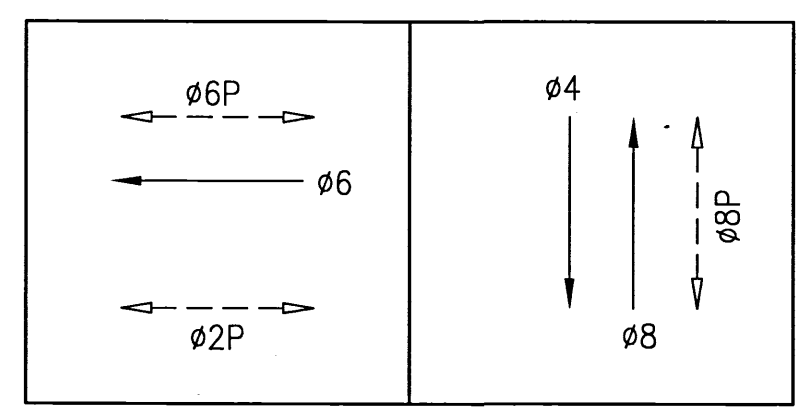


POLE AND EQUIPMENT SCHEDULE											
POLE No.	TYPE OF POLE	LUMINAIRE VOLTAGE/WATTAGE	VEHICLE SIGNAL					PEDESTRIAN SIGNAL			REMARKS
			No.	TYPE	MOUNTING	VISORS	LOUVERS	No.	TYPE	MOUNTING	
①	16-2-100 WITH 20' MAST ARM		81 84	3S12" 3S12"	SV-1-T MAS	T T		88	1S-COUNT	SP-1	BACKPLATE APS-2W
②	CITY STANDARD STREET LIGHT							69	1S-COUNT	SP-1	APS-2W
③	1-A (7')							28	1S-COUNT	TP-1-T	
④	1-A (10')		42	3S12"	TV-1-T	T		89	1S-COUNT	SP-1	
⑤	PPB POLE (4')										APS-2W
⑥	16-2-100 WITH 15' MAST ARM		43 44	3S12" 3S12"	SV-1-T MAS	T T					BACKPLATE
⑦	1-A (10')		41 62	3S12" 3S12"	TV-2-T-SFA	T T		29	1S-COUNT	SP-1	APS-2W
⑧	CITY STANDARD STREET LIGHT										
⑨	1-A (10')		61	3S12"	TV-1-T	T		68	1S-COUNT	SP-1	
⑩	PPB POLE (4')										APS-2W
⑪	1-A (10')		83	3S12"	TV-1-T	T					APS-2W

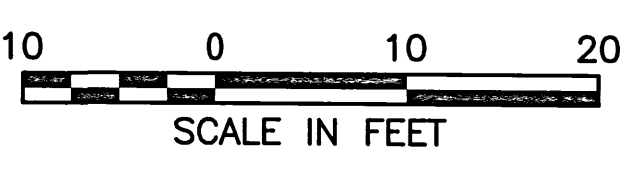
SHEET NOTES:

- ① PULL TWO (E) #8 AWG LOCATING WIRES IN 48X PULL BOX TO IC. IF (E) WIRING DOES NOT REACH THE IC, SPLICE & EXTEND (E) WIRES IN PULL BOX AND PULL TO IC PER CONDUIT AND WIRING SCHEDULE.
- ② TREE TO BE REMOVED BY CITY SERVICES PRIOR TO START OF CONSTRUCTION.
- ③ THE PG&E SERVICE POINT IS MANHOLE #7623 LOCATED APPROXIMATELY 125' EAST OF THE WEBSTER PROPERTY LINE. COORDINATE WITH PG&E THROUGH SFPUC FOR ACTIVATION OF SERVICE POINT.
- ④ CONTRACTOR SHALL PROTECT SURVEY MONUMENT.
- ⑤ CONTRACTOR TO TRIM TREE BRANCHES RESTRICTING VISIBILITY OF TRAFFIC SIGNALS UNDER BUF SUPERVISION.

PHASE DIAGRAM



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 ALL ISSUED REVISIONS SUBSEQUENT TO PREVIOUSLY PLOTTED DRAWING DURING BIDDING REMAIN VALID UNLESS SUPERSEDED BY LATER ISSUED REVISIONS.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.



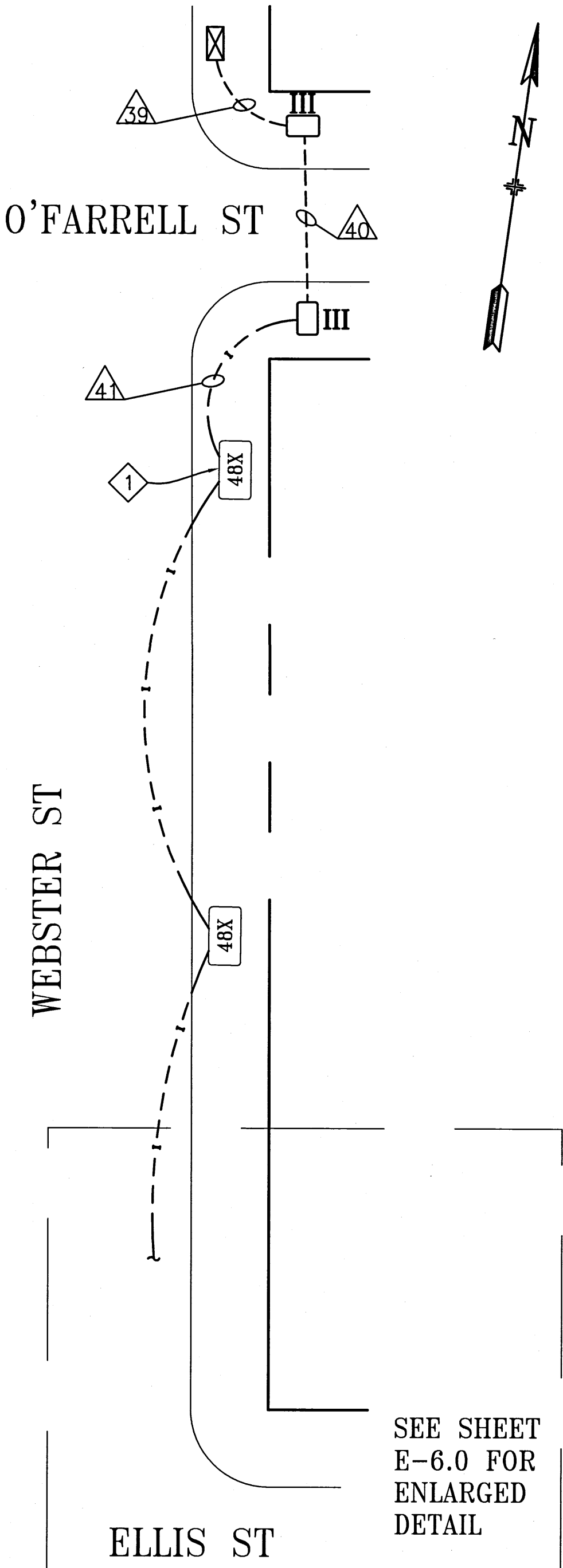
**6/16/2020**  
Flash: 10:26 AM  
3-Color: 10:28 AM  
Flash: 10:40 AM  
Jim Lau (BAL)  
Marcus Todd, Trevor Pettigrew (Signal Shop)  
Karl Johnson (PW)  
Nikki Kobayashi (MTA)

**6/18/2020**  
3-Color: 9:00 AM  
Trevor Pettigrew (Signal Shop)  
Nikki Kobayashi (MTA)

<table><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th><th>APP.</th></tr><tr><td>②</td><td>03/05/20</td><td>PCO 9: MISC WORK AT 7TH/MINNA &amp; ELLIS/WEBSTER</td><td>NK/DG</td><td>GD/SL</td></tr><tr><td>①</td><td>11/2018</td><td>PCO 1-Miscellaneous Pole Layout Changes</td><td>NK/ST</td><td>GD/SL</td></tr></table>	NO.	DATE	DESCRIPTION	BY	APP.	②	03/05/20	PCO 9: MISC WORK AT 7TH/MINNA & ELLIS/WEBSTER	NK/DG	GD/SL	①	11/2018	PCO 1-Miscellaneous Pole Layout Changes	NK/ST	GD/SL	REFERENCE INFORMATION & FILE NO. OF SURVEYS		BUREAU OF DESIGN & ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102 - 6028		Section Mgr: PHILIP THWIN Deputy Bureau Mgr: IQBALBHAI DHAPA Bureau Mgr: PATRICK RIVERA		DESIGNED: NK/CMF 3/2018 DRAWN: NK/CMF 3/2018 CHECKED: GD/SL 3/2018		SCALE: AS SHOWN SHEET OF SHEETS 20 OF 43		CONTRACT 64 NEW TRAFFIC SIGNALS ELLIS STREET & WEBSTER STREET TRAFFIC SIGNAL WORK POLE AND EQUIPMENT SCHEDULE		CONTRACT NO. 1000009385 DRAWING NO. E-6.0 FILE NO. 111,768 REV. NO. 2	
NO.	DATE	DESCRIPTION	BY	APP.																									
②	03/05/20	PCO 9: MISC WORK AT 7TH/MINNA & ELLIS/WEBSTER	NK/DG	GD/SL																									
①	11/2018	PCO 1-Miscellaneous Pole Layout Changes	NK/ST	GD/SL																									



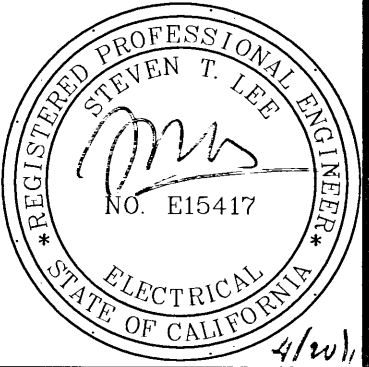
CONDUIT AND WIRING SCHEDULE (FURNISH AND INSTALL CONDUIT AND WIRES)																																													
CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
CONDUIT SIZE (INCH)		2	2	2	2	1	2	2	2	2	2	2	3	2	2	2	1	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	2	2	
NOTES			EX	SP			EX	SP			EX	SP		SP			EX	SP		EX	SP				SP	SP	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS			EX	EX	EX		SP	
				EX				EX				EX						EX			EX						EX	EX	EX				EX	EX											
	VEHICLE SIGNAL 41	3	3				3				3		3																																
	VEHICLE SIGNAL 62	3	3				3				3		3																																
	PED SIGNAL 29	2	2				2				2		2																																
	APS PPB XING WEBSTER ON POLE 7	2	2				2				2		2																																
	VEHICLE SIGNAL 43				3		3				3		3																																
	VEHICLE SIGNAL 44				3		3				3		3																																
	APS PPB XING WEBSTER ON POLE 5					2	2				2		2																																
	VEHICLE SIGNAL 42								3			3	3																																
	PED SIGNAL 89								2			2	2																																
	APS PPB XING WEBSTER ON POLE 4								2			2	2																																
	PED SIGNAL 28									2		2	2																																
	APS PPB XING ELLIS ON POLE 3									2		2	2																																
	VEHICLE SIGNAL 61														3		3				3			3																					
	PED SIGNAL 68														2		2				2			2																					
	APS PPB XING WEBSTER ON POLE 10															2	2				2			2																					
	VEHICLE SIGNAL 83																		3	3				3																					
	APS PPB XING WEBSTER ON POLE 11																		2	2				2																					
	VEHICLE SIGNAL 81																					3		3																					
	VEHICLE SIGNAL 84																						3		3																				
	PED SIGNAL 88																						2		2																				
	APS PPB XING WEBSTER ON POLE 1																						2		2																				
	PED SIGNAL 69																							2		2																			
	APS PPB XING ELLIS ON POLE 2																							2		2																			
	#14 NEUTRAL	3			2				2	1					2				1			3	1																						
	#14 SPARE		3				3				3		3				3			3				3																					
	TOTAL #14 WIRES	13	13		8	2	21		9	5	21	11	32		7	2	10		6	15		13	5	29																					
	#10 WIRES NEUTRAL		1				2				3		3				1			2				3																					
	#10 WIRES STREET LIGHT																													2						2									
	#8 WIRES STREET LIGHT																														2	2	2			2									
	#8 WIRES (120 V SERVICE)																																				3	2	2						
	#8 AWG LOCATING WIRES																																							2	2	2	2		















INTERCONNECT WIRING DETAIL  
NOT TO SCALE

DETAIL NOTES:

- 1 SPLICE TWO (E) #8 AWG LOCATING WIRES IN PULL BOX AND PULL TO (E) IC AT NE CORNER OF O'FARRELL AND WEBSTER PER CONDUIT AND WIRING SCHEDULE.



					REFERENCE INFORMATION & FILE NO. OF SURVEYS										 BUREAU OF DESIGN & ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 30 VAN NESS AVENUE, 5TH FLOOR SAN FRANCISCO, CA 94102 - 6028					<table><tr><td>Section Mgr:</td><td>PHILIP THWIN</td><td>Date:</td><td></td></tr><tr><td></td><td></td><td></td><td>4/23/18</td></tr><tr><td>Deputy Bureau Mgr:</td><td>IQBALBHAI DHAPA</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>4/23/18</td></tr><tr><td>Bureau Mgr:</td><td>PATRICK RIVERA</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>4/24/18</td></tr></table>					Section Mgr:	PHILIP THWIN	Date:					4/23/18	Deputy Bureau Mgr:	IQBALBHAI DHAPA						4/23/18	Bureau Mgr:	PATRICK RIVERA						4/24/18	<table><tr><td>DESIGNED:</td><td>DATE:</td></tr><tr><td>NK/CMF</td><td>3/2018</td></tr><tr><td>DRAWN:</td><td>DATE:</td></tr><tr><td>JD/NK</td><td>3/2018</td></tr><tr><td>CHECKED:</td><td>DATE:</td></tr><tr><td>NK/CMF</td><td>3/2018</td></tr></table>					DESIGNED:	DATE:	NK/CMF	3/2018	DRAWN:	DATE:	JD/NK	3/2018	CHECKED:	DATE:	NK/CMF	3/2018						<table><tr><td>SCALE:</td></tr><tr><td>AS SHOWN</td></tr><tr><td>SHEET OF SHEETS</td></tr><tr><td>22 OF 43</td></tr></table>					SCALE:	AS SHOWN	SHEET OF SHEETS	22 OF 43	<table><tr><td colspan="2">CONTRACT 64 NEW TRAFFIC SIGNALS</td></tr><tr><td colspan="2">ELLIS STREET &amp; WEBSTER STREET CONDUIT AND WIRING SCHEDULE</td></tr></table>					CONTRACT 64 NEW TRAFFIC SIGNALS		ELLIS STREET & WEBSTER STREET CONDUIT AND WIRING SCHEDULE		<table><tr><td>CONTRACT NO.</td><td>1000009385</td></tr><tr><td>DRAWING NO.</td><td>E-6.1</td></tr><tr><td>FILE NO.</td><td>111.769</td></tr><tr><td>REV. NO.</td><td>0</td></tr></table>					CONTRACT NO.	1000009385	DRAWING NO.	E-6.1	FILE NO.	111.769	REV. NO.	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Section Mgr:	PHILIP THWIN	Date:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			4/23/18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Deputy Bureau Mgr:	IQBALBHAI DHAPA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			4/23/18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Bureau Mgr:	PATRICK RIVERA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			4/24/18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
DESIGNED:	DATE:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NK/CMF	3/2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DRAWN:	DATE:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
JD/NK	3/2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
CHECKED:	DATE:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NK/CMF	3/2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
SCALE:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
AS SHOWN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
SHEET OF SHEETS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
22 OF 43																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CONTRACT 64 NEW TRAFFIC SIGNALS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
ELLIS STREET & WEBSTER STREET CONDUIT AND WIRING SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CONTRACT NO.	1000009385																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DRAWING NO.	E-6.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
FILE NO.	111.769																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
REV. NO.	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<table><tr><td>NO.</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td><td>APP.</td></tr><tr><td colspan="5">TABLE OF REVISIONS</td></tr></table>					NO.	DATE	DESCRIPTION	BY	APP.	TABLE OF REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NO.	DATE	DESCRIPTION	BY	APP.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TABLE OF REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														