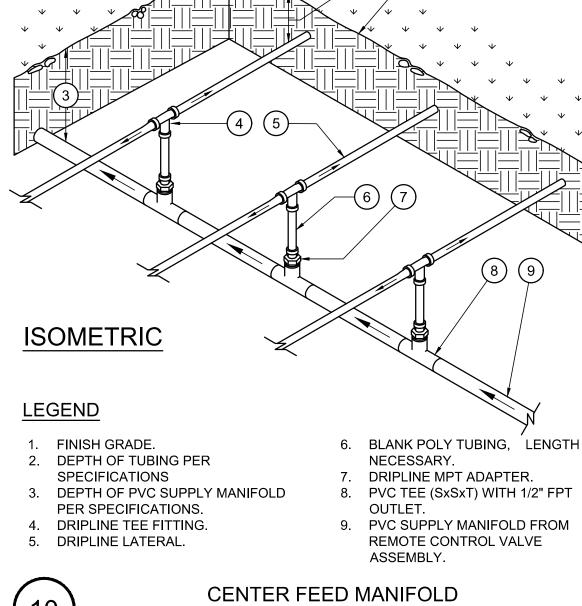


ASSEMBLY. **CENTER FEED MANIFOLD** NOT TO SCALE

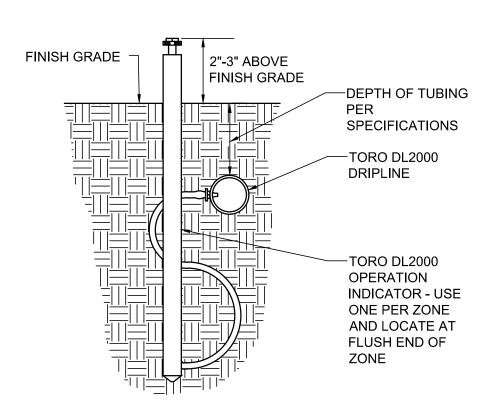


ISOMETRIC

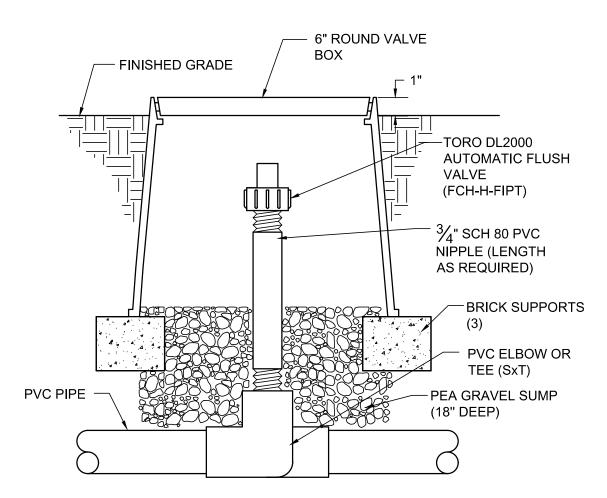
LEGEND

- FINISH GRADE.
- 2. DEPTH OF TUBING PER SPECIFICATIONS
- 3. PVC CROSS (SxSxSxS) 4. COMPRESSION ADAPER.
- 5. DRIPLINE LATERAL. 6. AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM
- 7. AIR/VACUUM RELIEF VALVE AT HIGH POINT. REFER TO AIR/VACUUM RELIEF VALVE DETAIL.

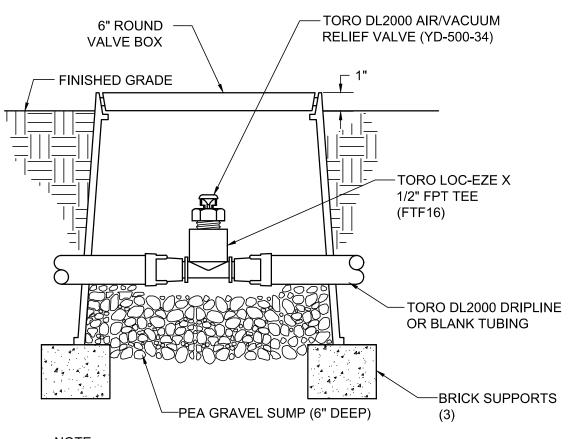
AIR/VACUUM RELIEF LATERAL NOT TO SCALE



TORO DL2000 OPERATION INDICATOR NOT TO SCALE



TORO DL2000 AUTOMATIC FLUSH VALVE -PLUMBED TO PVC 13 NOT TO SCALE



NOTE:
AIR/VACUUM RELIEF VALVE CANNOT BE CONNECTED LOWER
THAN DRIPLINE LATERALS.

TORO DL2000 AIR/VACUUM RELIEF VALVE -PLUMBED TO TUBING NOT TO SCALE

No.	Date	Revisions	
			LANDSCAPE
			No. 5130
			Signature 08/30/19 Renewal Date
			Renewal Date 07/18/2018 Date
			V FOF CALIFORM



1646 N. CALIFORNIA BLVD WALNUT CREEK, CA 94596 PHONE 925-940-2200 FAX 925-940-2299

PLACEWORKS



CROSS ALAMEDA TRAIL MAIN STREET TO WEBSTER STREET Webster Irrigation Details

Sheet Number: IR-4

ALAMEDA COUNTY CITY OF ALAMEDA

CALIFORNIA

Job No. 20145190 Design 100% PSE

4. 3/4" CONDUIT FOR INPUT POWER PER

5. COPPER CLAD GROUND WIRE

6. GROUNDING ROD IN VALVE BOX

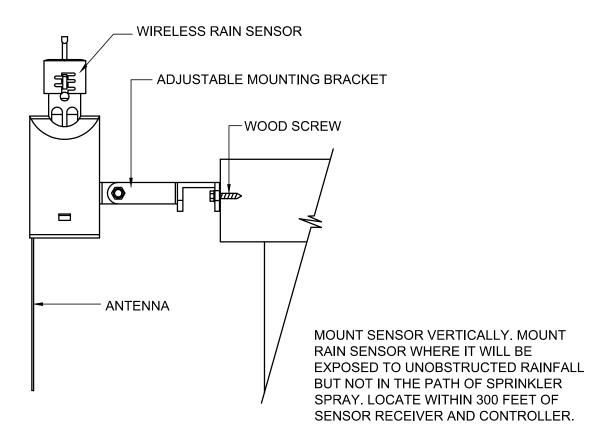
LOCAL AND NATIONAL ELECTRICAL

8. POURED CONCRETE BASE - 6"
MIN. THICKNESS - EXTEND 6"
BEYOND EACH SIDE OF
ENCLOSURE W/1/2% SLOPE FOR

DRAINAGE. 9. FINISH GRADE.

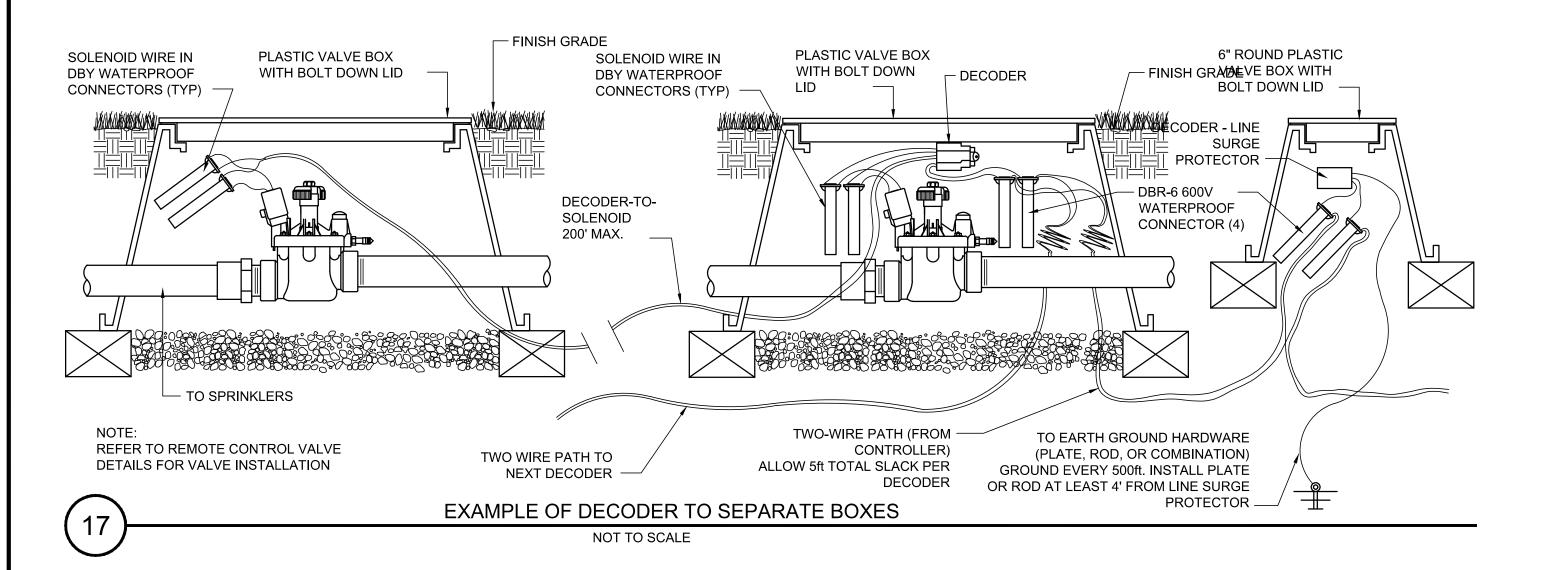
TWO-WIRE CONTROLLER - TOP ENTRY

NOT TO SCALE



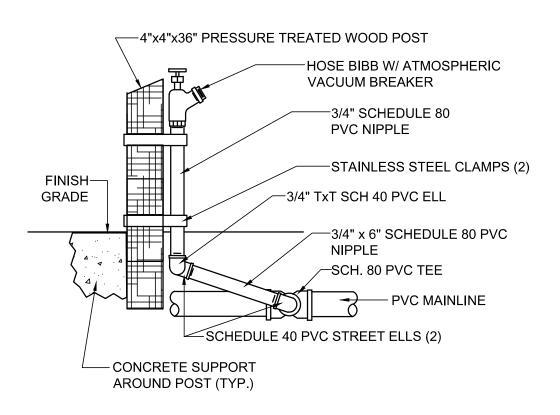
WIRELESS RAIN SENSOR INSTALLATION DETAIL

NOT TO SCALE

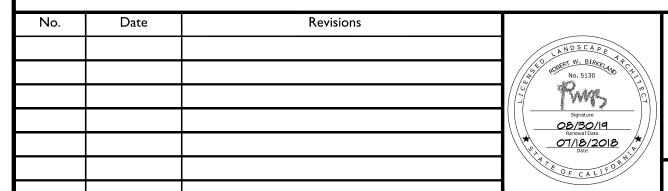


TWO-WIRE CONTROLLER NOTES:

- 1. REFER TO MANUFACTURER'S DOCUMENTATION FOR COMPLETE INSTALLATION INSTRUCTIONS.
- 2. PROVIDE EARTH GROUND PROTECTION. THE GROUND PATH MUST BE AS DIRECT AS POSSIBLE WITH NO SHARP BENDS AND MUST NOT EXCEED 25 OHM RESISTANCE. USE A 5/8" X 8' COPPER-CLAD STEEL ROD OR 5 SQUARE FEET COPPER GROUNDING PLATES AND INSTALL NOT LESS THAN 8' AND NOT MORE THAN 12' FROM THE CONTROLLER OR TWO-WIRE PATH.
- 3. LIGHTNING ARRESTERS (TW-LA-1) SHALL BE INSTALLED A MINIMUM OF EVERY 600' ALONG THE TWO-WIRE PATH, IN A VALVE BOX, AND GROUNDED ACCORDINGLY.
- 4. THE STATION DECODER MODULES ARE AVAILABLE IN 1-STATION, 2-STATION, AND 4-STATION CONFIGURATIONS. INSTALL DECODERS IN VALVE BOX WITH A REMOTE CONTROL VALVE. MAXIMUM DISTANCE BETWEEN DECODER AND SOLENOID IS 200'. FOR UNUSED OUTPUT WIRES, INSTALL A WIRE NUT ON EACH WIRE AND PLACE IN A TW-SPLICE-14 WIRE CONNECTOR.
- 5. USE ONLY MANUFACTURER RECOMMENDED TWO WIRE CABLE (TW-CAB-14)
- . CABLE SHOULD BE BURIED NO LESS THAN 24" DEEP.
- 7. USE RAINMASTER TW-SPLICE-14 WIRE CONNECTORS ONLY.
- 8. LOOP TWO WIRE PATH AT ALL CORNERS, SPLICES (2' LOOP) AND IN PULL BOX IF DISTANCE FROM VALVE TO VALVE EXCEEDS 100'.



19	HOSE BIBB DETAIL
	NOT TO SCALE





I 646 N. CALIFORNIA BLVD SUITE 400 WALNUT CREEK, CA 94596 PHONE 925-940-2200 FAX 925-940-2299

 Date
 07/18/2018
 Scale
 1" = 10'
 Job No. 20145190

 Design
 100% PSE
 Drawn JL
 Approved JL





CROSS ALAMEDA TRAIL MAIN STREET TO WEBSTER STREET Webster Irrigation Details

Sheet Number: IR-5

CITY OF ALAMEDA ALAMEDA COUNTY

CALIFORNIA

DRAWING NAME: S:\Client Files\Placeworks\P Plot date: 06-14-18 Plotted BY: id

	LIGHTING SCHEDULE									
TYPE	IMAGE	MANUFACTURER & CATALOG NUMBER	LAMP TYPE	WATTS	VOLTAGE	DESCRIPTION				
F1		KING LUMINAIRE: POLE: KBC12-G-S11-DB-AG-C/W 140- 35/35 LUMINAIRE K56-S-K24-P4AR-III/V-60W(SSL0- 7030-240-7-PR-36 IES TYPE3	4000K, 80CRI LED 60,000 HOURS RATED LIFE	60		CITY OF ALAMEDA STANDARD. POLE MOUNTED POST-TOP LED EXTERIOR AREA LUMINAIRE WITH TUDOR LANTERN STYLE HEAD (WITH SPURS), FLAT ARRAY ACRYLIC RIPPLED OPTICS (TYPE III), BLACK TEXTERED PAINT FINISH AND K24 CAPITAL POLE ADAPTER. POLE: OCTAGONAL 12' POLE WITH ECLIPSE POLISHED FINISH, 5.5" POLE TOP, 9.5" DIAMETER POLE BUTT AND 2"X 8" HANDHOLE. PROVIDE ONE ANTI-GRAFFITI COATING.				

PROJECT: ALAMEDA CAT R	AMP														
LOCATION: EXTERIOR POWE	R PEDEST	ΓAL		F	Δ	N		L		LA	1				
	L	OAD (KV		C.						C.			OAD (KVA	4)	
LOAD SERVED	LTG.	RECP.	OTHER	AMP	POLE		A	В)	AMP	POLE	LTG.	RECP.	OTHER	LOAD SERVED
WEST TRAIL, BIKE PATH LTG	0.3			20	2	1	*		2	20	2	0.3			EAST TRAIL, BIKE PATH LTG
	0.3							*				0.3			
WEST TRAIL, BIKE PATH LTG	0.3			20	2	5	*		6	20	2	0.3			EAST TRAIL, BIKE PATH LTG
	0.3							*				0.3			
(F) MONUMENT LTG				20	2	9	*		10	20	1				SPARE
								*	12	20	1				SPARE
SPARE				20	1	13	*		14						
SPARE				20	1	15		*	16						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
						XXX		*	XXX						
						XXX	*		XXX						
TOTALS	> 1.2						ΤО	M FI	EED			1.2			< TOTALS
100/0/01/				For O	ffice U	se Only						D	o= p.u.		ADDITIONAL FEATURES:
VOLTAGE: 120/240V, 1PH, 3W	CONNEC		DEMAND			DEMANE							SE BALA		
S.C.A.: 22,000 AIC RMS SYM	LOAD (KV		FACTOR			LOAD (K			CUTING			5 5	KVA	B 4	NEMA 3R ENCLOSURE
22,000 AIC RMS SYM	2		0% OF LOAI NEC 220-13		_				GHTING ECEPTAC	IES		212%	%	173%	NEIVIA SK ENGLUSURE
MOUNTING: SURFACE		X	1.00		_				THER	LES		42	AMPS	35	
JOSEPH OF THE PROPERTY OF THE	=====		1.00		_	=====						74	7	-	
BUS SIZE: 100 AMP BUSING	2	KVA	10	Amps		2	KV	4	10	AMPS					
MAINS: 100 AMP MAIN BRKR	. 3	KVA <	80% Rated	Breaker	>	3	KV	4	13	AMPS					
			25% Spare	Added		>			16	AMPS					DATE ISSUED:
	THES	SE VALUES	SUMMERIZ	ETHE	LOADS	FROMAL	L P	ANE	L SECTIO	NS		pnl-	11.xls 05/06	6/98	DATE PRINTED: 07/13/18

ALAMEDA MUNICIPAL POWER (AMP) GENERAL NOTES

- PROVIDE EASEMENT FOR ACCESS TO ALAMEDA MUNICIPAL POWER'S ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
- COORDINATE WITH ALAMEDA MUNICIPAL POWER INSPECTOR TO DETERMINE LAYOUT OF TRENCH, CONDUIT AND PENETRATIONS OUT OF EXISTING SECONDARY SERVICE PULLBOX
- ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL COMPLY WITH "ALAMEDA MUNICIPAL POWER'S MATERIAL INSTALLATION CRITERIA FOR UNDERGROUND ELECTRICAL INSTALLATIONS" DOCUMENTATION. DOWNLOAD FROM ALAMEDA MUNICIPAL POWER'S WEBSITE (www.alamedamp.com).
- NEW TESCO POWER PEDESTAL CONCRETE FOUNDATION PAD SHALL NOT BE BUILT ON TOP OR ABOVE OTHER EXISTING UTILITY LINES.
- PROVIDE EQUIPMENT BARRIER PROTECTION AND CLEARANCES PER ALAMEDA MUNICIPAL POWER REQUIREMENTS. REFER TO DETAIL E/E2.01.

GENERAL NOTES

- DRAWINGS INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AND THE ELECTRICAL INSPECTOR REQUIREMENTS.
- REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR EXACT LOCATION OF IRRIGATION CONTROLLERS, ETC, IF ANY.
- PRIOR TO COMMENCING TRENCHING OPERATIONS, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT BUREAU AND DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITY LINES WHICH MIGHT BE DAMAGED DURING THE INSTALLATION OF THIS WORK. HAND TRENCH, BACKFILL AND COMPACT IN AREAS OF EXISTING UTILITY LINES TO AVOID DAMAGE TO SAME.
- SIZE PULLBOXES TO MINIMUM CODE REQUIREMENTS. OBTAIN THE LANDSCAPE ARCHITECTS APPROVAL OF ANY PULLBOX(ES) ADDED TO FACILITATE THE INSTALLATION OF CONDUITS SHOWN ON THE PLANS.
- COORDINATE LOCATIONS OF ALL SITE PULLBOXES, EQUIPMENT PADS AND TRENCHING WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. UTILITY LINES SHALL BE A MINIMUM OF 10'-0" AWAY FROM TREE LOCATIONS.
- CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.
- 7. INSTALL A POLYETHYLENE PULLING ROPE IN ALL EMPTY CONDUITS.
- 8. INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.
- 9. FURNISH AND INSTALL PANELBOARD WITH CIRCUIT BREAKERS AS SHOWN ON
- 10. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
- 11. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDER-WRITERS LABORATORIES AND BEAR THEIR LABEL.
- 12. CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM
- 13. CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEM.

SYMBOLS LIST

- METER/MAIN PANEL PEDESTAL, GRADE MOUNTED ON CONCRETE PAD
- PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- JUNCTION BOX, SURFACE MOUNTED, +18" UON. DUPLEX CONVENIENCE DEVICE WITH GROUND FAULT CURRENT INTERRUPTER
- "GFCI", SURFACE MOUNTED, +18" UON.
- PHOTOELECTRIC CELL LED SINGLE-HEAD AREA POST-TOP LIGHT FIXTURE WITH POLE, MOUNTED TO

— — CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.

- III CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
 - 1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
 - 2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
 - 3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.

NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.



- DETAIL DESIGNATION FIXTURE IDENTIFICATION TAG:

- SHEET NUMBER

FIXTURE TYPE QUANTITY

ABBREVIATIONS

—			
А	AMPERES	TC	TIME CLOCK
AFI	ARC FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
С	CONDUIT	UON	UNLESS OTHERWISE NOTED
(E)	EXISTING TO REMAIN	V	VOLTS
FLA	FULL LOAD AMPERES	WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	1Ø	1 PHASE
JB	JUNCTION BOX	3Ø	3 PHASE
		1P	1 POLE
		2P	2 POLE
		3P	3 POLE
		3W	3 WIRE
		4W	4 WIRE
PNL	PANEL		
PVC	POLYVINYL CHLORIDE		
REQ'T	REQUIREMENTS		
		3P 3W	3 POLE 3 WIRE

DRAWING INDEX

DWG. No.	DRAWING TITLE
E0.01	SYMBOLS LIST, NOTES, SCHEDULES AND DRAWING INDEX
E1.01	SITE ELECTRICAL PLAN
E1.02	SITE ELECTRICAL PLAN
E1.03	SITE ELECTRICAL PLAN
E1.04	SITE ELECTRICAL PLAN
E1.05	SITE ELECTRICAL PLAN
E1.06	SITE ELECTRICAL PLAN
E1.07	SITE ELECTRICAL PLAN
E1.08	SITE ELECTRICAL PLAN
E1.09	SITE ELECTRICAL PLAN
E2.01	ELECTRICAL DETAILS
E3.01	TITLE 24
E3.02	TITLE 24

LIGH	<u> HTINC</u>	CONT	ROL PANI	<u>EL SCHI</u>	EDULE
LIGHTING CONTROL PANEL	RELAY NO.	CIRCUIT CONTROLLED	AREA CONTROLLED	FIXTURES CONTROLLED	CONTROL
LCP-A	R1 2-POLE	LA-1	WEST BIKE PATH	F1	PC ON/TC OFF (P.M.) TC ON/PC OFF (A.M.)
	R2 2-POLE	LA-5	WEST BIKE PATH	F1	PC ON/TC OFF (P.M.) TC ON/PC OFF (A.M.)
	R3 2-POLE	LA-2	EAST BIKE PATH	F1	PC ON/TC OFF (P.M.) TC ON/PC OFF (A.M.)
	R4 2-POLE	LA-6	EAST BIKE PATH	F1	PC ON/TC OFF (P.M.) TC ON/PC OFF (A.M.)
	R5	SPARE			
	R6	SPARE			

No.	Date	Revisions	
	07/18/2018	CONSTRUCTION DOCUMENTS	1
			\rfloor
			\rceil
			1





THE POWER HOUSE Engineering 1305 Marina VILLAGE PARKWAY ALAMEDA, CA. 94501 (510) 769-7600 JOB #18091

Scale AS SHOWN Job No. 20145190 Approved CF

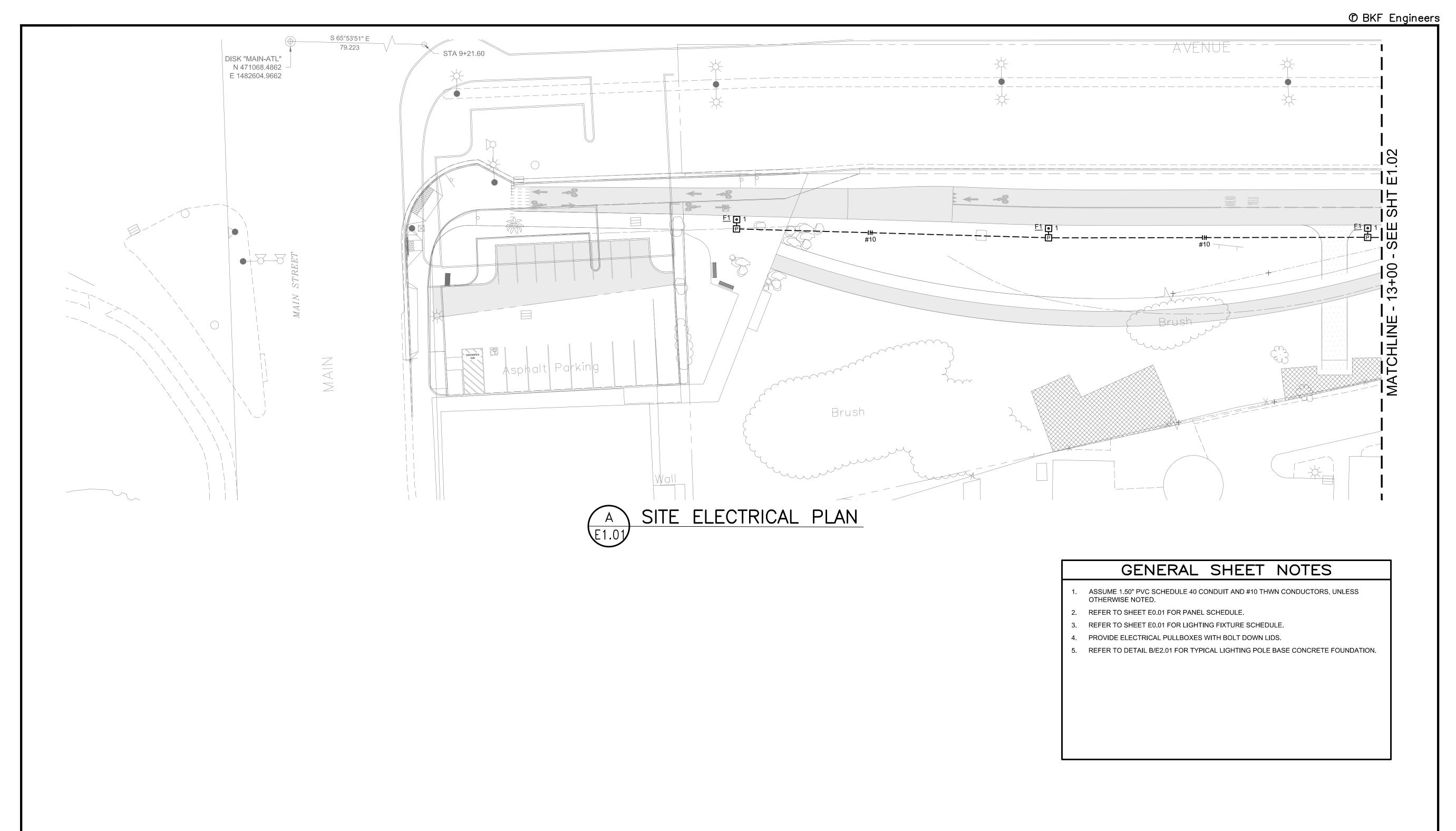


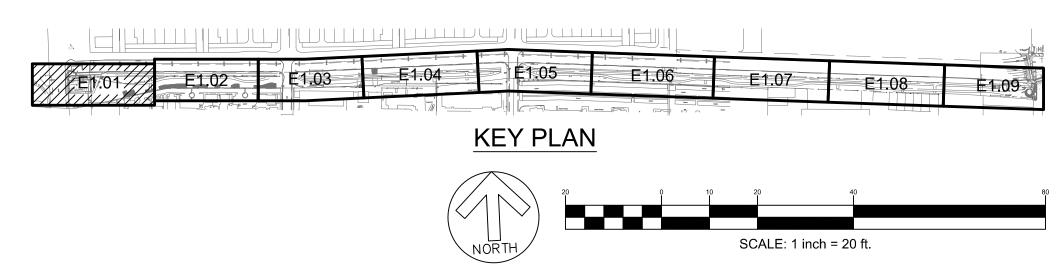
CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY SYMBOLS LIST, NOTES, SCHEDULES AND

DRAWING INDEX **ALAMEDA COUNTY CALIFORNIA** CITY OF ALAMEDA

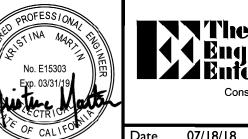
E0.01

Sheet Number:





No. Date		Kevisions		
	07/18/2018	CONSTRUCTION DOCUMENTS		/
				[2
				EG/S
			\	
			\	/G
				1



THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Scale AS SHOWN Job No. 20145190 Approved CF



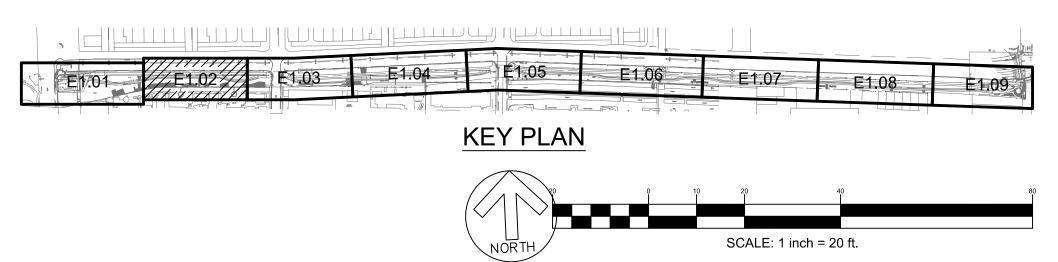
CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY SITE ELECTRICAL PLAN

E1.01

Sheet Number:

CITY OF ALAMEDA

ALAMEDA COUNTY



	No. Date		Revisions	
I		07/18/2018	CONSTRUCTION DOCUMENTS	
ı				
ı				REG/
ı				
ı				100



THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

8/18 Scale AS SHOWN Job No. 20145190
Drawn EG Approved CF



CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN

E1.02

Sheet Number:

CITY OF ALAMEDA AL

ALAMEDA COUNTY

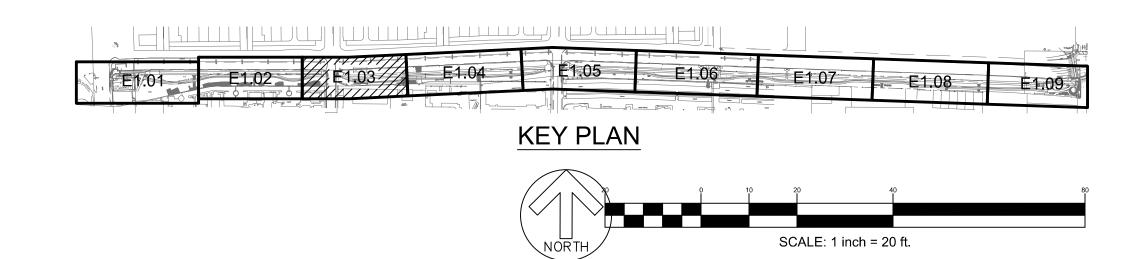
SITE ELECTRICAL PLAN

NUMBERED SHEET NOTES

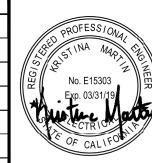
- PROVIDE POLE RISER PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/ REQUIREMENTS. EXTEND UNDERGROUND PVC SCHEDULE 40 CONDUIT A MINIMUM OF
- PROVIDE CONCRETE SECONDARY PULLBOX PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/REQUIREMENTS. REFER TO DETAIL A/E2.01. INSTALL PULLBOX PER ALAMEDA MUNICIPAL POWER (AMP) INSTALLATION REQUIREMENTS.
- PROVIDE POWER SERVICE UNDERGROUND CONDUIT PER ALAMEDA MUNICIPAL POWER INSTALLED AND ROUTED THROUGH CONDUIT SHALL HAVE PHASE-IDENTIFYING COLOR TAPE AND SERVICE ADDRESS IDENTIFICATION. REFER TO DETAIL B/E2.01 FOR UTILITY
- 4 60-AMP SINGLE-PHASE METERING/MAIN PEDESTAL. REFER TO DETAIL E/E2.01 FOR MOUNTING AND ALAMEDA MUNICIPAL POWER (AMP) PRODUCT SPECIFICATIONS.

GENERAL SHEET NOTES

- ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
- 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
- 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
- 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



INO.	Date	Kevisions		
	07/18/2018	CONSTRUCTION DOCUMENTS		
				1/2/2
				REG/
				\ *
			· ·	1
				`





ate	07/18/18	Scale	AS SHOWN	Job No. 20	45190
esign	CF	Drawn	EG	Approved	CF

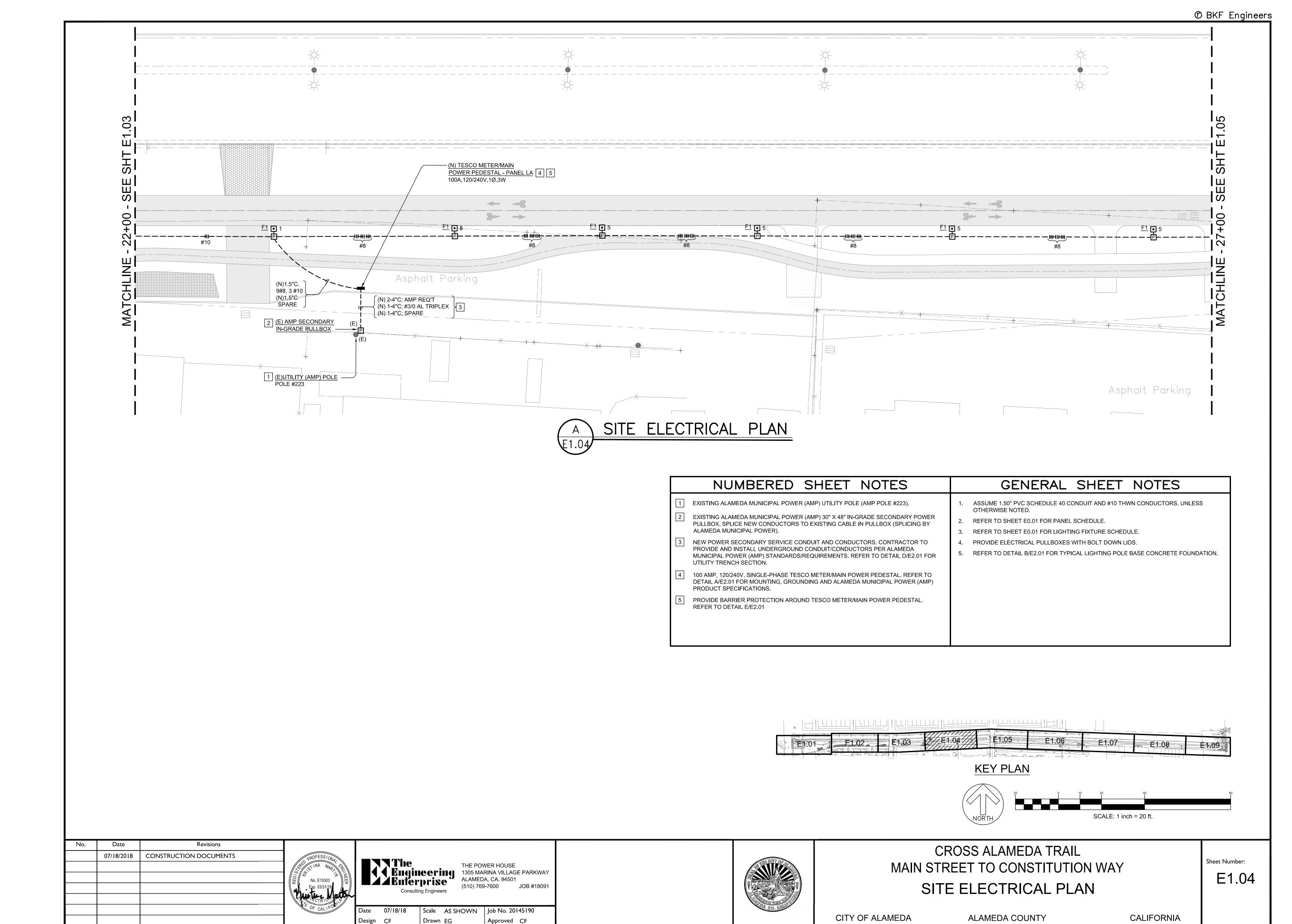


CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY SITE ELECTRICAL PLAN

E1.03

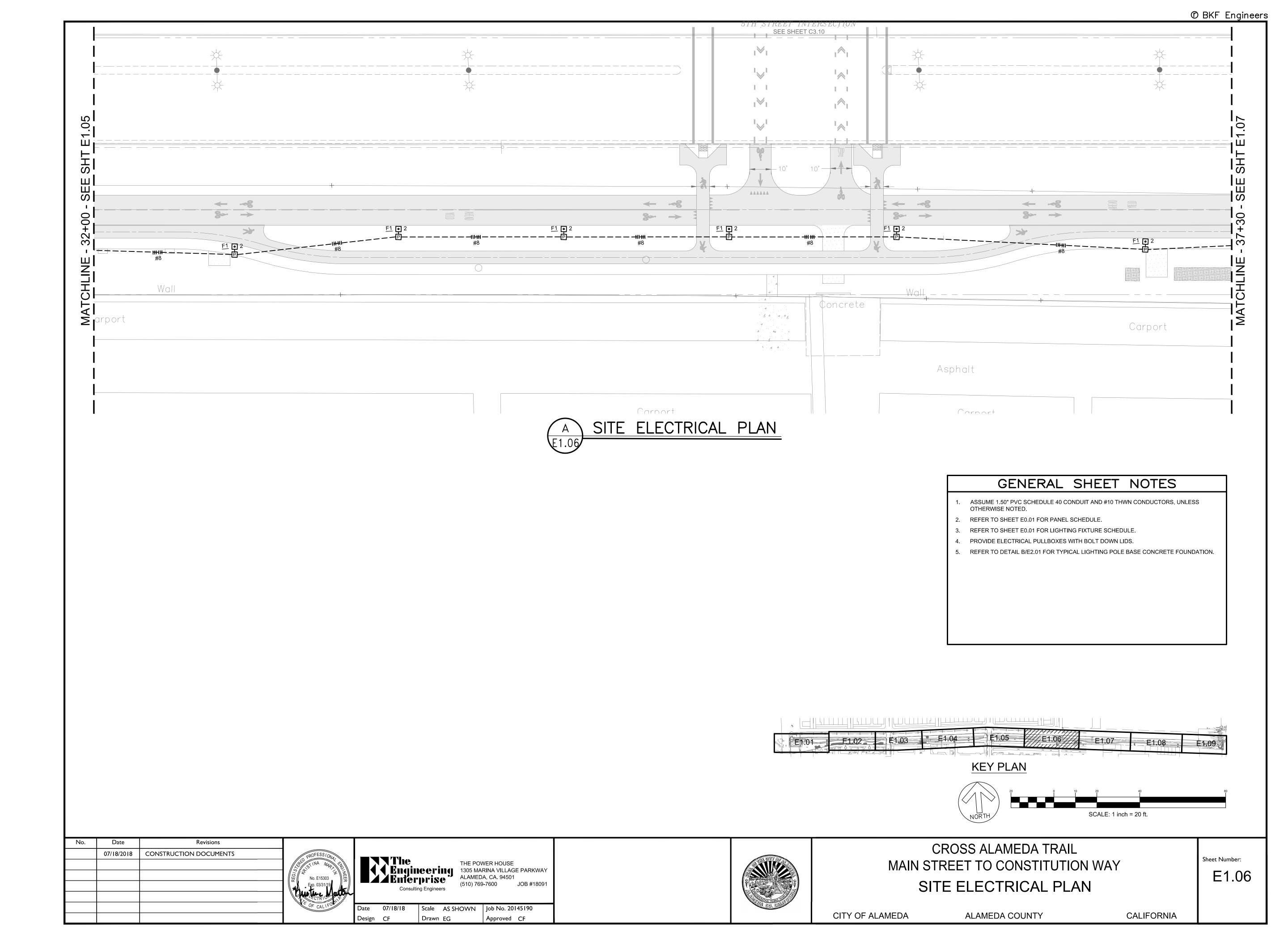
Sheet Number:

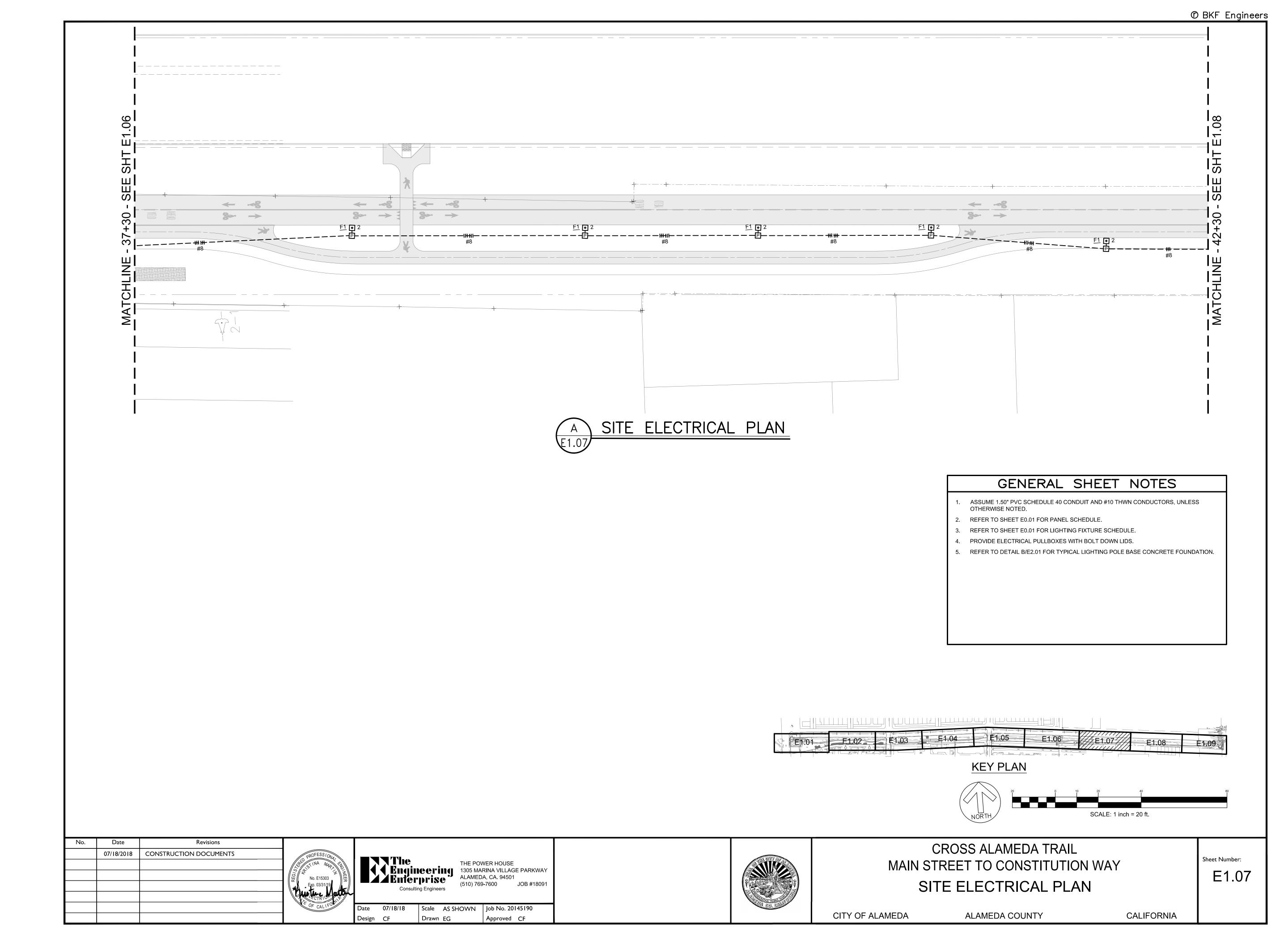
CITY OF ALAMEDA ALAMEDA COUNTY

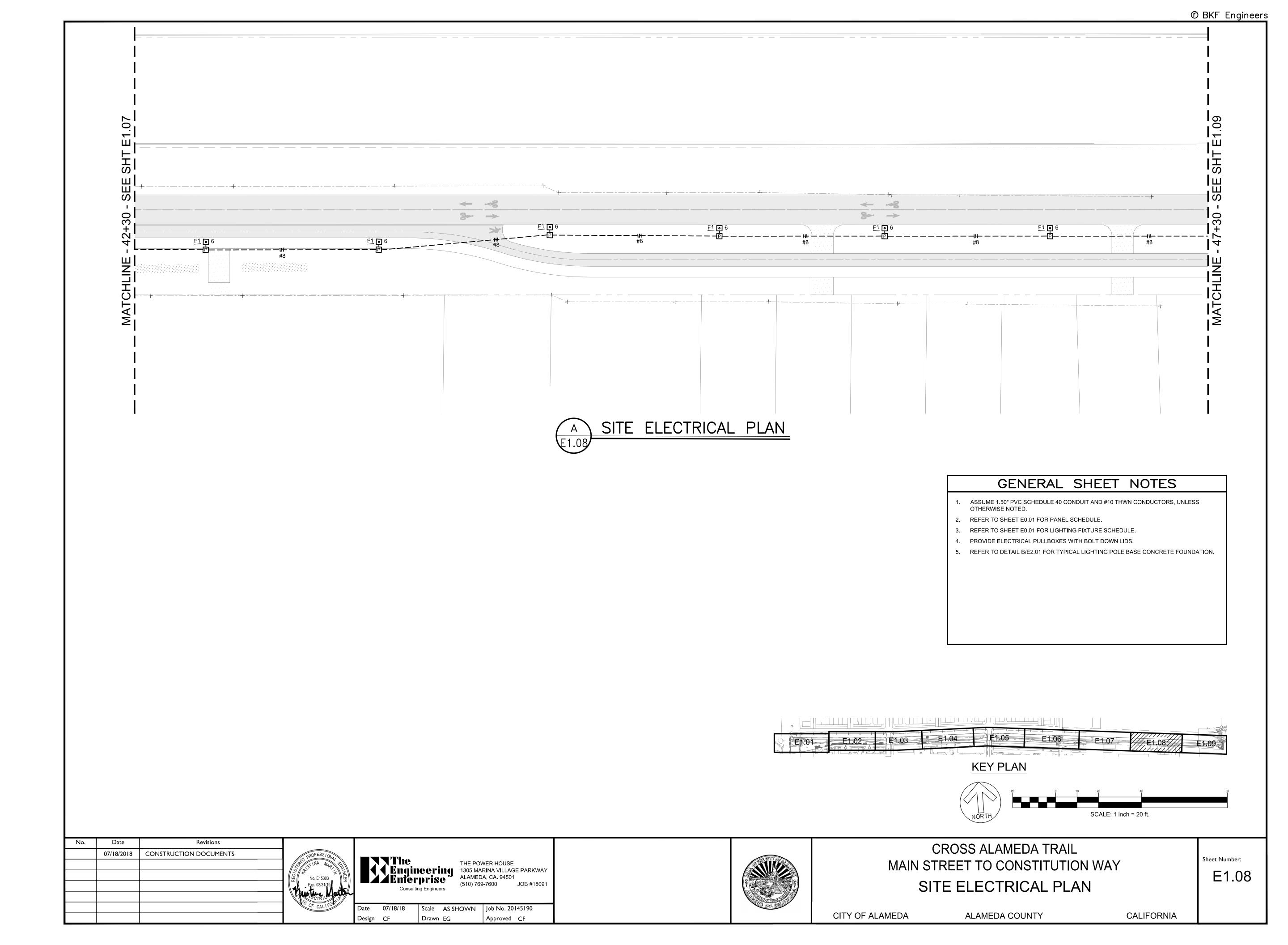


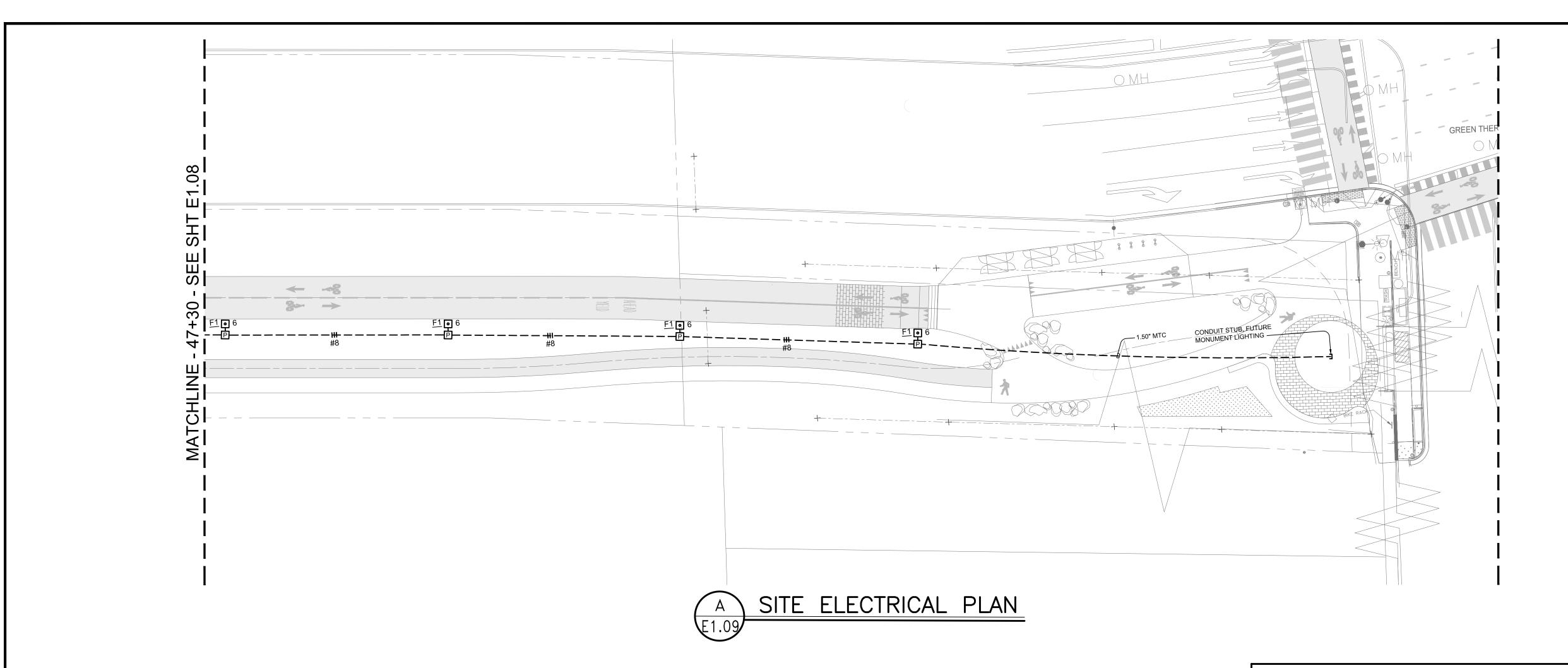
Approved CF

© BKF Engineers



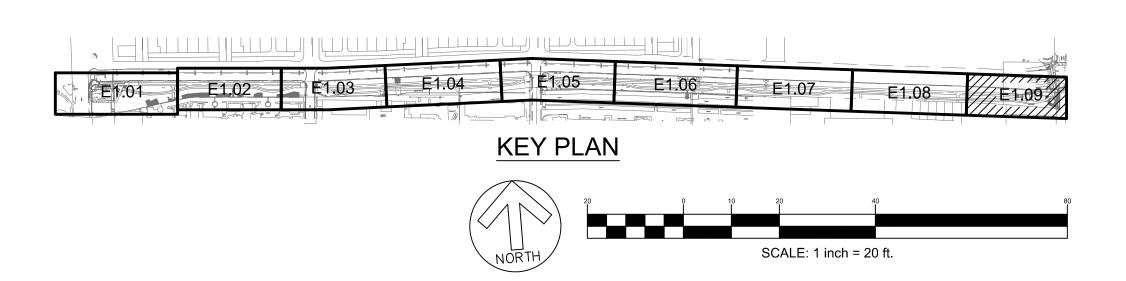




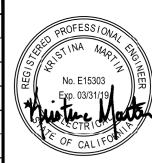


GENERAL SHEET NOTES

- 1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
- 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
- 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
- 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
- 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Kevisions		
	07/18/2018	CONSTRUCTION DOCUMENTS		
				REC
				, ,
			'	//



THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Scale AS SHOWN Job No. 20145190 Approved CF



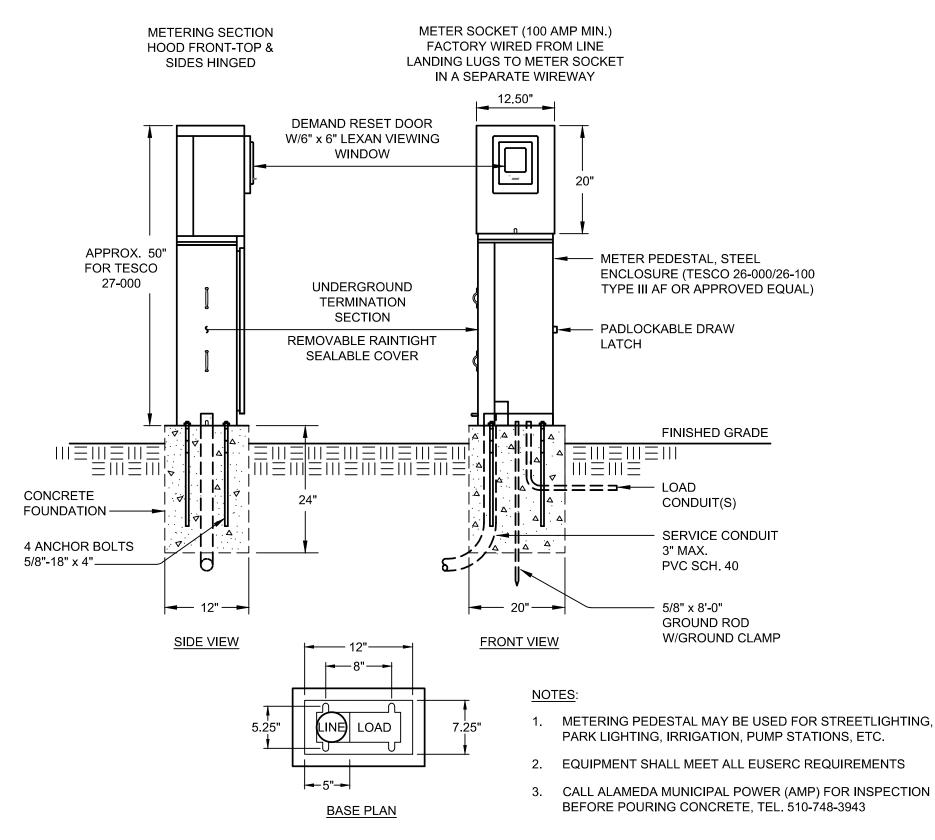
CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY SITE ELECTRICAL PLAN

E1.09

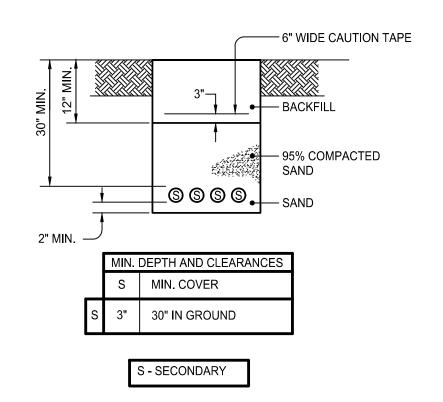
Sheet Number:

CITY OF ALAMEDA

ALAMEDA COUNTY







NOTES:

Revisions

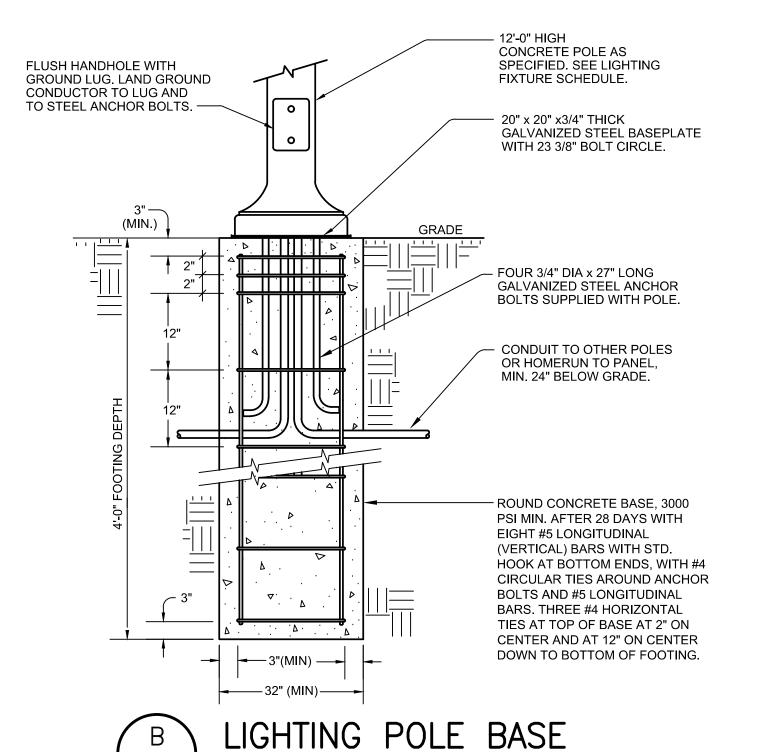
CONSTRUCTION DOCUMENTS

Date

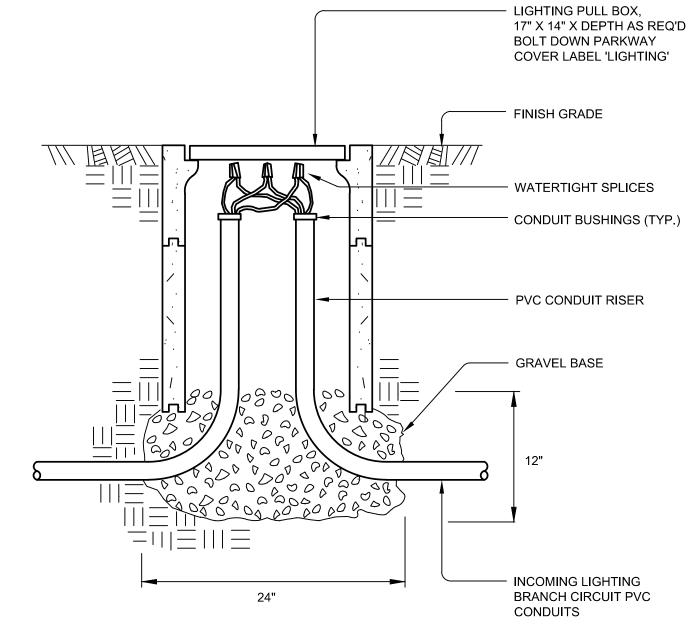
07/18/2018

- 1. ALL BACKFILL SHALL BE COMPACTED IN ONE FOOT LAYERS WITH A MINIMUM OF 95% COMPACTION FOR TRENCH IN GROUND. COMPACTION MAY BE SUBJECT
- 2. ALL TRENCH WORK SUBJECT TO ALAMEDA MUNICIPAL POWER INSPECTION.
- 3. CALL ALAMEDA MUNICIPAL POWER FOR INSPECTION BEFORE BACKFILLING TRENCH, TEL (510) 748-3943.

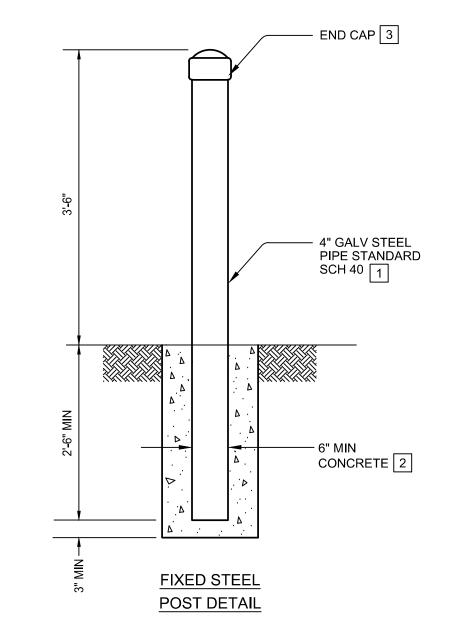




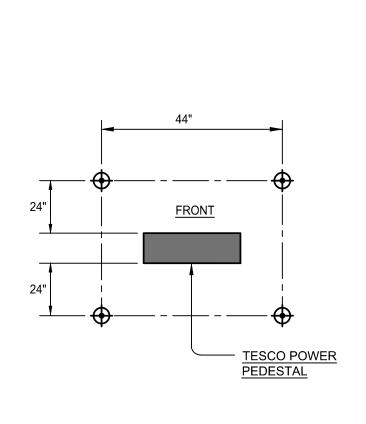
(N.T.S.)



LIGHTING PULLBOX DETAIL



DETAIL



GENERAL NOTES:

- 1. THIS STANDARD SHOWS BARRIER POSTS REQUIRED TO PROTECT PAD-MOUNTED EQUIPMENT FROM VEHICULAR DAMAGE, BARRIER POST LOCATIONS SHALL BE APPROVED BY ALAMEDA MUNICIPAL POWER (AMP) CONSTRUCTION INSPECTOR.
- 2. CAUTION MUST BE TAKEN WHEN INSTALLING BARRIER POSTS ENSURING THAT THEY DO NOT MAKE CONTACT WITH ANY UNDERGROUND UTILITIES.

DETAIL NOTES:

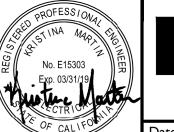
- 1 USE 4 INCH GALVANIZED STEEL PIPE, WITH STANDARD SCHEDULE 40. THE PIPE SHALL BE PRIMED AND PAINTED
- THE CONCRETE ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES
- 3 INSTALL WELDED END CAP AT THE TOP OF BARRIER POSTS.

ı	E	EQUIPMENT	BARRIER	PROTECTION
,	E2.01	DETAIL		(N.T.S.)

FIXED STEEL

POST LAYOUT

PROFESSIONA
S & STINA MAR
No. E15303
Exp. 03/31/19
OF CTRICK
F OF CALIFO





THE POWER HOUSE Engineering 1305 Marina VILLAGE PARKWAY ALAMEDA, CA. 94501 (510) 769-7600 JOB #18091

Scale AS SHOWN Job No. 20145190 Drawn EG Approved CF



CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY **ELECTRICAL DETAILS**

Sheet Number: E2.01

CITY OF ALAMEDA ALAMEDA COUNTY

CALIFORNIA

(N.T.S.)

STATE OF CALIFORNIA	OUTDOOR L	IGHTING							and the second	STATE OF CALIFORNIA			
OUTDOOR LIGHTING	CEC-NRCC-LTO-	01-E (Revised 04/16)					CALIF	ORNIA ENERGY CON	MMISSION ***	OUTDOOR LIGHTING			
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	CERTIFICATE O	F COMPLIANCE							NRCC-LTO-01	1-E CEC-NRCC-LTO-01-E (Revise	d 04/16)		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E	Outdoor Lightin								(Page 3 of		NCE	и	NRCC-LTO-01-
Outdoor Lighting (Page 1 of 4)	Project Name:	CROSS ALAMEDA T	RAIL				Date Prepared:	July 12, 2018		Outdoor Lighting		I	(Page 4 of
Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018	I. OUTDOOR I	LIGHTING SCHEDULE	and FIELD INSPECT	ON ENERGY C	HECKLIST					Project Name: CROSS ALA	MEDA TRAIL	Date Pre	epared: July 12, 2018
A. General Information									Field	DOCUMENTATION AUTHOR			*
Project Address: Total Illuminated Hardscape Area		Luminaire Schedule			nstalled Watts		Location	Cutoff	Inspector		cate of Compliance documentation is accurate and co	Omplete. Documentation Author Signature:	A. 1
Main Street to Constitution Way, Alameda, CA 94501	01	02			4 05	06	07	08	09	Documentation Author Nam Philip Yu	ie.	Documentation Author Signature:	Phily14
Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration				How w		o o				Company:		Signature Date:	
Outdoor Lighting Zone (LZ)	Na me or			deterr	mined to so	d	Primary Function area in which these luminaires ar		10	The Engineering Enterprise		July 12, 2018	
I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114	Item Tag	Complete Luminaire I	escription	A8	g to (c) Imbe	nstalled in this a	installed	BUG Rating	Pass	Address:		CEA/HERS Certification (if applicable)	(
· · · · · · · · · · · · · · · · · · ·				inai Defa	Nu Lur	al Ins office in x 05	(Outdoor Lighting Zone)			1305 Marina Village Parkwa	1	5.	
B. LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)				lum GEC fre	Acce §1	Tota Wa (03				City/State/Zip		Phone:	
For detailed instructions on the use of this and all Enegery Efficiency Standards compliance documents, refe to the								UH:		Alameda, CA 94501		(510) 769-7600	
Nonresidential Manual pulished by the California Energy Commission.								UL:	_	RESPONSIBLE PERSON'S DEC			
NRCC-LTO-01-E Certificate of Compliance	F1	POLE MOUNTED P	OST-TOP	60	□ 42	2520	Trail Path	FVH:	_		nder penalty of perjury, under the laws of the State ed on this Certificate of Compliance is true and corre		
▼ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance								BVH:	-		sion 3 of the Business and Professions Code to accep		or system design identified on this
■ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance								BH:	-	Certificate of Compliance (r		or responsibility for the bullating design	or system design racritimed on this
NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance								UH:			performance specifications, materials, component	s, and manufactured devices for the bu	uilding design or system design identified on
								UL:		this Certificate of Complian	ce conform to the requirements of Title 24, Part 1 and	d Part 6 of the California Code of Regu	ations.
C. Summary of Allowed Lighting Power Watts								FVH:] _ _		tures or system design features identified on this Ce		
01 Sum Total of ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 = 2922.32								BVH:	_		ments, worksheets, calculations, plans and specifica	ations submitted to the enforcement a	gency for approval with this building
Complies ONLY if Installed (Box 02) <= Allowed (Box 1)								FH:	-	permit application.	oleted signed copy of this Certificate of Compliance	shall be made available with the build	(ing normit/s) issued for the building and
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3 2520								IIH:			cement agency for all applicable inspections. I unde		
								UL:	-		n the documentation the builder provides to the bui		
D. Declaration of Required Installation Certificates - Declare by checking all Installation Certificates that will be								FVH:] _ _			Responsible Designer Signature:	MILAY.
submitted. (Retain copies and verify forms are completed and signed.)								BVH:]	Kristina Martin			// pagific
✓ NRCI-LTO-01-E - Must be submitted for all buildings								FH:	_	Company:		Signature Date:	
☑ NRCI-LTO-02-E - Must be submitted for lighting control system, or for an Emergy Management Control System (EMCS), to be recognized for compliance								BH:		The Engineering Enterprise		July 12, 2018	
E. Declaration of Required Certificates of Acceptance - Declare by checking all Certificates of Acceptance that will be				INICTALLED VA	ATTS PAGE TOT	Λ1.	Enter sum total of all page	os /Sum Total		Address:		License:	
submitted. (Retain copies and verify forms are completed and signed.)				INSTALLED W	ATTS PAGE TOT	2520	INSTALLED Outdoor lighti			1305 Marina Village Parkwa City/State/Zip		E015303 Phone:	
✓ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.						2520	NRCC-LTO-01-E; page 2	ing wattage / into		Alameda, CA 94501		(510) 769-7600	
							71 0			· ·		(310) 703 7000	
F. Schedule of luminaires exempt from the outdoor power lighting power requirements in §140.7	CA Building Ene	ergy Efficiency Stand	rds - 2016 Nonresid	ential Compli	ance				April 20	016			
01 02										CA Building Energy Efficience	y Standards - 2016 Nonresidential Compliance	parameter	April 202
Name or Symbol Description of exempt luminaire in accordance with the exemptions													
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016													
STATE OF CALIFORNIA			STATE OF CALIFOR	NIA							STATE OF CALIFORNIA		
OUTDOOR LIGHTING CONTROLS			OUTDOOR LIG		ITROI S					Sec. 1	OUTDOOR LIGHTING CONTROLS		
	RNIA ENERGY COMM	MISSION	CEC-NRCC-LTO-02						CAL	ALIFORNIA ENERGY COMMISSION	CEC-NRCC-LTO-02-E (Revised 08/16)		CALI
CERTIFICATE OF COMPLIANCE		NRCC-LTO-02-E	CERTIFICATE OF						CAI	NRCC-LTO-0			CALI
Outdoor Lighting Controls		(Page 1 of 3)	Outdoor Lighting							(Page 2 d			
Project Name: CROSS ALAMEDA TRAIL Date Prepared: Ju	ly 12, 2018		Project Name: 0		A TRAIL				Date Prepared:	d: July 12, 2018	Project Name: CROSS ALAMEDA TRAIL		Date Prepared:
The NRCC-LTO-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.										- A Province			para epareu.
			B. MANDATO	RY OUTDO	OR LIGHTIN	G CONTROL	SCHEDULE and FIELD	INSPECTION CH	IECKLIST		DOCUMENTATION AUTHOR'S DECLARATION		
A. Mandatory Outdoor Lighting Control Declaration Statements										Field	I certify that this Certificate of Compliant		
check all that apply:								Standard	ds Complying Wit	th est re	Documentation Author Name:		Documentation Author Signature:
		I		Out	door lighting Cor	tral Cahadula		/V all that a	nnly or lasus om	anty if	i iriiiib tu		

OUTDOOR LIGHTING CONTROLS	CALIEODNIA ENERGY COMMISSION				
CEC-NRCC-LTO-02-E (Revised 08/16)	CALIFORNIA ENERGY COMMISSION				
CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E				
Outdoor Lighting Controls	(Page 1 of 3)				
Project Name: CROSS ALAMEDA TRAIL	Date Prepared: July 12, 2018				
The NRCC-LTO-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.					

☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9

Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b) All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's

instructions in accordance with §130.1 Part-Night Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 110.9(b)S

All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.

All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)

All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1 All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.

All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3

For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4.

For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)S

Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

August 2016

Project Name. CROSS ALAMEDA				Dat	e Piepai	eu. July	12, 2010)			
B. MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST											
Outdoor Lighting Control Schedule			Standards Complying With (*\sigma all that apply, or leave empty if Exempted)						rieid inspector		
01	02	03	04	05	06	07	08	09	10	1	.1
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. cation and Application of Luminaires Being photocontrol, outdoor astronomical time-		§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

astronomical time-clock

August 2016

-E	CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
3)	Outdoor Lighting Controls	(Page 3 of 3)
	Project Name: CROSS ALAMEDA TRAIL	Date Prepared: July 12, 2018
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1	1. I certify that this Certificate of Compliance documentation	on is accurate and complete.
	Documentation Author Name:	Documentation Author Signature:
	Philip Yu	// hugh
	Company:	Signature Date:
	The Engineering Enterprise	July 12, 2018
_	Address:	CEA/HERS Certification (if applicable):
1	1305 Marina Village Parkway	
	City/State/Zip	Phone:
	Alameda, CA 94501	(510) 769-7600
	RESPONSIBLE PERSON'S DECLARATION STATEMENT	

I certify the following under penalty of perjury, under the laws of the State of California:

The information provided on this Certificate of Compliance is true and correct.

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on

this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other

applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

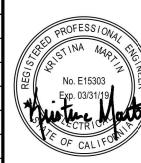
Responsible Designer Name:	Responsible Designer Signature:
Kristina Martin	
Company:	Signature Date:
The Engineering Enterprise	July 12, 2018
Address:	License:
1305 Marina Village Parkway	E015303
City/State/Zip	Phone:
Alameda, CA 94501	(510) 769-7600

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

August 2016

CALIFORNIA ENERGY COMMISSION

No.	Date	Revisions	
	07/18/2018	CONSTRUCTION DOCUMENTS	PROFESS/O
			STINA MA
			No. E15303
			Exp. 03/31/19
			Complete CTRIC
			F OF CALIF





THE POWER HOUSE Engineering 1305 Marina VILLAGE PARKWAY ALAMEDA, CA. 94501 (510) 769-7600 JOB #18091

Trail Path Post-top Fixtures

Date	07/18/18	Scale	AS SHOWN	Job No. 20	45190
Design	CF	Drawn	EG	Approved	CF



CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY TITLE 24

Sheet Number: E3.01

CITY OF ALAMEDA

ALAMEDA COUNTY

STATE OF CALIFORNIA

OUTDOOR	LIGHTING POWER	ALLOWANCES	

3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)

EC-NRCC-LTO-03-E (Revised 01/16)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-
Outdoor Lighting Power Allowances	(Page 1 of 4
roject Name: CROSS ALAMEDA TRAIL	Date Prepared: July 12, 2018

A. Outdoor Lighting Power Allowance Summary											
1. Genral Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E) 1. 2922.32											
2. Additional Specific "	2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts										
determined in Section (C-1 to (C-4 of NRCC-LTI-04-E	_				_				
PER APPLICATION	1	PER UNIT LENGTH		PER HARDSCAPE AREA	1	PER SPECIFIC AREA					
from Section C-1		(SALES FRONTAGE)		(ORNAMENTAL LIGHTING)		from Section C-4					
		from Section C-2		from Section C-3							
	+		+		+		=	2.			

B. General Hardscape Lighting Power Allowance From Table 140.7-A											
Area Wattage Allowance (AWA)					Linear Wattage Allowance (LWA)				Initial Wattage Allowance (IWA)		Total General Hardscape Lighting Allowance
01	02	03	04		05	06	07		08		09
	Illuminated	AWA Per Square			Perimeter Length	IPA ner	IWA				

Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)		IWA (Watts)	B04 + B07 + B08	
Trail Path	53808	0.04	2152.32					770	2922.32	
							c			
			-							

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA

OUTDOOR LIGHTING POWER ALLOWANCES

CALIFORNIA ENERGY COMMISSION CEC-NRCC-LTO-03-E (Revised 01/16) CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E Outdoor Lighting Power Allowances roject Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT									
	1. I certify that this Certificate of Compliance documentation is accurate a	and complete.								
	Documentation Author Name:	Documentation Author Signature:								
-	Philip Yu									
-	Company:	Signature Date:								
-	The Engineering Enterprise	July 12, 2018								
┨	Address:	CEA/HERS Certification (if applicable):								
┨	1305 Marina Village Parkway									
_	City/State/Zip	Phone:								
	Alameda, CA 94501	(510) 769-7600								
\dashv	RESPONSIBLE DERSON'S DECLARATION STATEMENT	e and the second of the second								

- I certify the following under penalty of perjury, under the laws of the State of California:
- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- . The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is

Responsible Designer Name:	Responsible Designer Signature:
Kristina Martin	
Company:	Signature Date:
The Engineering Enterprise	July 12, 2018
Address:	License:
1305 Marina Village Parkway	E015303
City/State/Zip	Phone:
Alameda, CA 94501	(510) 769-7600

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2015

N	lo.	Date	Revisions	
		07/18/2018	CONSTRUCTION DOCUMENTS	
				1
				REG/,
				\\ *



THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Approved CF



CROSS ALAMEDA TRAIL MAIN STREET TO CONSTITUTION WAY TITLE 24

Sheet Number: E3.02

ALAMEDA COUNTY

CALIFORNIA

CITY OF ALAMEDA