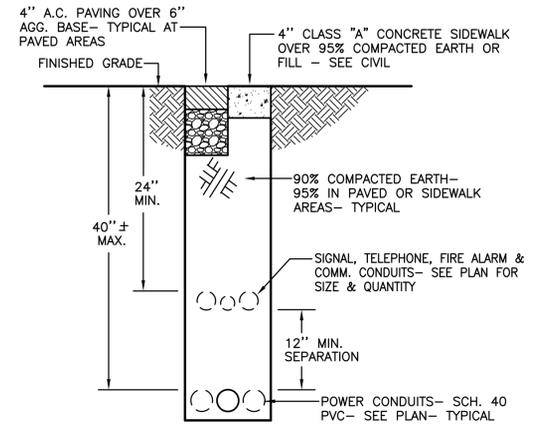


2 PULL BOX -TYP.  
SCALE: N.T.S.



1 ELECTRICAL TRENCH SECTION -TYPICAL  
SCALE: N.T.S.

**ELECTRICAL COMPLIANCE NOTES**

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED FACILITIES IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 22, DIVISION 7, CHAPTER 7, CALIFORNIA CODE OF REGULATIONS AND TITLE 24 -- ALL APPLICABLE PARTS OF LATEST EFFECTIVE EDITIONS.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)  
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)  
2013 CALIFORNIA BUILDING CODE (CBC)  
PART 2, TITLE 24, CCR  
BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC)  
2013 CALIFORNIA ELECTRICAL CODE (CEC)  
PART 3, TITLE 24, CCR  
BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC)  
2013 CALIFORNIA MECHANICAL CODE (CMC)  
PART 4, TITLE 24, CCR  
BASED ON THE 2012 UNIFORM MECHANICAL CODE (UMC)  
2013 CALIFORNIA PLUMBING CODE (CPC)  
PART 5, TITLE 24, CCR  
BASED ON THE 2012 UNIFORM PLUMBING CODE (UPC)  
2013 CALIFORNIA FIRE CODE (CFC)  
PART 9, TITLE 24, CCR  
BASED ON THE 2012 INTERNATIONAL FIRE CODE (IFC)

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

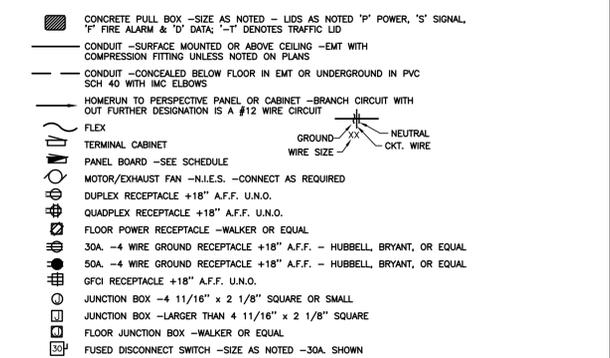
**GENERAL ELECTRICAL NOTES:**

1. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
2. ALL EQUIPMENT AND MATERIAL SHALL MEET UNDERWRITERS LABORATORIES, INC. REQUIREMENTS AND SHALL BEAR THEIR LABEL FOR WHEREVER STANDARDS HAVE BEEN ESTABLISHED.
3. THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
4. DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE CITY OF SUNNYVALE'S ENGINEER. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE CITY OF SUNNYVALE IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
5. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
6. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC.
7. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
8. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
9. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
10. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
11. ALL CONDUIT SHALL BE TYPE RIGID METAL CONDUIT UNLESS OTHERWISE NOTED.
12. OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +48" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
13. ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
14. ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

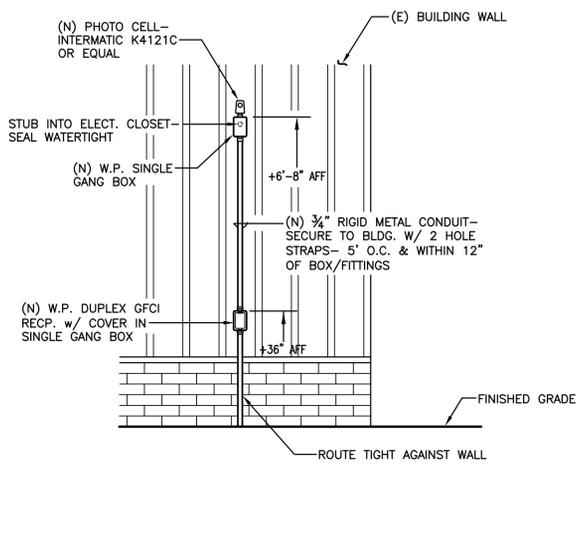
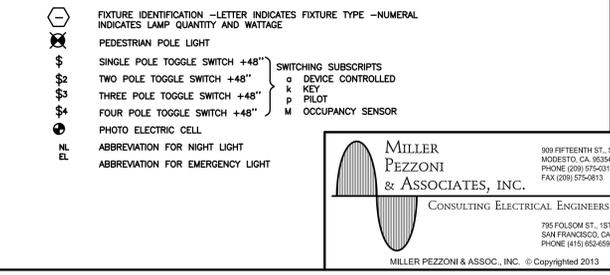
**ELECTRICAL ABBREVIATIONS**

Δ	DELTA CONNECTED	(F)	FUTURE	OC	ON CENTER
Y	WYE CONNECTED	FA	FIRE ALARM	OH	OVERHEAD
∅	PHASE	FACP	FIRE ALARM CONTROL PANEL	OL	THERMAL OVERLOAD RELAY
∅	AND	FAT	FIRE ALARM TERMINAL CABINET	OT	OVER TEMPERATURE
∅	AT	FX	FIXTURE	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
∅	FEET	FLA	FULL LOAD AMPS		
∅	INCHES	FLEX	FLEXIBLE		
		FLUOR	FLUORESCENT	PA	PUBLIC ADDRESS
A	AMPERES	FS	FLOW SWITCH	PB	PULL BOX
AC	ALTERNATING CURRENT	FOR	FORWARD-OFF-REVERSE	PNL	PANEL
ACT	ABOVE COUNTERTOP/BACKSPLASH	FT	FEET	PH	PHASE
ADJ	ADJACENT, ADJOINING	GALV	GALVANIZED	PR	PAIR
ADJ	ADJUSTABLE FREQUENCY DRIVE	GRND	GROUNDING	PR1	PRIMARY
AFF	ABOVE FINISHED FLOOR	GC	GENERAL CONTRACTOR	PS	PRESSURE SWITCH
AL	ALUMINUM	HC	HIGH	PWR	POWER
APPROX	APPROXIMATE	HOA	HAND-OFF-AUTO	(R)	REMOVE(D)
ARCH	ARCHITECT	HOS	HAND-OFF-STANDBY	RA	REMOTE ANNUNCIATOR
AUTO	AUTOMATIC	HV	HIGH VOLTAGE	RD	ROAD
AUX	AUXILIARY	HVAC	HEATING, VENTILATION, AIR CONDITIONING	REGD	REQUIRED
ALT	ALTERNATE	IDF	INTERMEDIATE DISTRIBUTION FRAME	RECMTS	REQUIREMENTS
AWG	AMERICAN WIRE GAUGE	INCAN	INCANDESCENT	RGP	REDUNDANT GROUND PATH ROOM
B	BARE	IDC	INITIATING DEVICE CIRCUIT	RM	RIGID METAL CONDUIT
BC	BARE COPPER GROUND	IN	INCHES	RECP	RECEPTACLE
BBBO	BACKBOARD	INST	INSTANTANEOUS	RT	RAIN TIGHT
BRKR	BREAKER	J	JUNCTION BOX	SCH	SCHEDULE
BLDD	BUILDING	KV	KILOVOLTS	SEC	SECONDS, SECONDARY
C	CONDUIT OR CONTRACTOR	KVA	KILOVOLT AMPERES	SHT	SHEET
CAB	CABINET	KW	KILOWATTS	SIG	SIGNAL
CATV	CABLE TELEVISION	LB	LINEAR FEET	SPEC	SPECIFICATIONS
CKT	CIRCUIT	LV	LOW VOLTAGE	SW	SWITCH
CLG	CEILING	M	MOTOR	SWD	SWITCHED
CD	CONDUIT ONLY	MAX	MAXIMUM	SP	SPARE
COMM	COMMUNICATION	MCA	MINIMUM CIRCUIT AMPS	STD	STANDARD
CONN	CONNECT	MCC	MOTOR CONTROL CENTER	STR	STRANDED
CONN	CONNECTION OR CONTINUED	MCM	THOUSAND CIRCULAR MILLS	SWB	SWITCHBOARD
COORD	COORDINATE	MCP	MOTOR CIRCUIT PROTECTOR	TELE	TELEPHONE
CONT	CONTINUATION OR CONTINUED	MDF	MAIN DISTRIBUTION FRAME	TEMP	TEMPERATURE
COORD	COORDINATE	MECH	MECHANICAL	TOA	TEST OFF AUTOMATIC
CONTR	CONTROL RELAY	MFG	MANUFACTURER	TH	THERMISTAT
COOR	COORDINATE	MN	MINIMUM	TRANSF	TRANSFORMER
COMP	CURRENT TRANSFORMER	MPOE	MAIN POINT OF ENTRY	TYP	TYPICAL
COMP	COMPRESSOR	MSB	MAIN SWITCHBOARD	TSP	TWISTED SHIELDED PAIR
CU	COPPER	N	NEUTRAL	THRU	THROUGH
DC	DIRECT CURRENT	(N)	NEW	UG	UNDERGROUND
DET	DETAIL	EL	ELEVATION	UNO	UNLESS NOTED OTHERWISE
DISC	DISCONNECT	EL	ELECTRICAL LIGHT	V	VOLTS
DIST	DISTRIBUTION	EL	ELECTRICAL LIGHT	VA	VOLT AMPS
DGA	DIVISION OF THE STATE ARCHITECT	EMT	ELECTRICAL METALLIC TUBING	VFD	VARIABLE FREQUENCY DRIVE
DWG	DRAWING	EOL	END OF LINE	VM	VOLT METER
(E)	EXISTING	EOL	END OF LINE	W	WIRE
EC	ELECTRICAL CONTRACTOR	ENCLOS	ENCLOSURE	W/	WITH
EL	ELEVATION	EP	EXPLOSION PROOF	W/O	WITHOUT
EL	ELECTRICAL	EQUIP	EQUIPMENT	WR	WEATHERPROOF
EL	ELECTRICAL	ETC	ET CETERA	WHD	WATT HOUR DEMAND METER
EL	ELECTRICAL	EVAP	EVAPORATOR	WM	WATT METER
EMT	ENERGY MANAGEMENT SYSTEM	EVAP	EVAPORATOR	WH	WATER HEATER
EMS	ELECTRICAL METALLIC TUBING	EX	EXTERIOR	WTR	WATER
EOL	END OF LINE	EX	EXTERIOR	WTR	WATER
ENCLOS	ENCLOSURE	EX	EXTERIOR	XFR	TRANSFORMER
EP	EXPLOSION PROOF	EX	EXTERIOR	(XFR)	REMOVE AND RELOCATE(D)
EQUIP	EQUIPMENT	EX	EXTERIOR		
ETC	ET CETERA	EX	EXTERIOR		
EVAP	EVAPORATOR	EX	EXTERIOR		

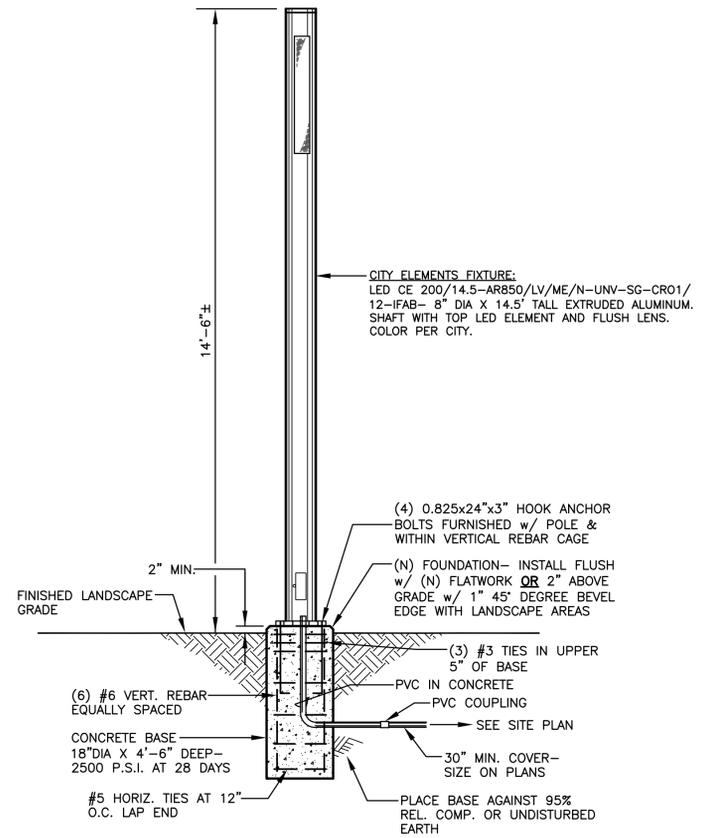
**GENERAL ELECTRICAL LEGEND:**



**LIGHTING LEGEND:**



4 (N) CONDUIT PENETRATION AT (E) BLDG.  
SCALE: N.T.S.



3 EXTERIOR LED COLUMN LIGHT  
SCALE: NONE

60% SUBMITTAL	12-20-13
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100% SUBMITTAL	04-04-14
BID SET	07-31-14
Rev.	Description
	Date

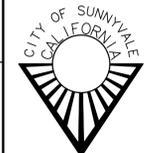
**HARRIS DESIGN**  
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Drawn By:	CAL
Checked By:	KLP
Consultant's Job No.	13-110

**ORCHARD GARDENS PARK EXPANSION PROJECT**

**ELECTRICAL PLANS  
COVER SHEET**



City of Sunnyvale Santa Clara County California	City of Sunnyvale Project No. PR-14/06-14
Department of Public Works 456 West Olive Avenue P.O. Box 3707 Sunnyvale 94088-3707	Drawing No. <b>E1</b>

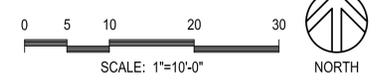


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FAX (415) 652-0613  
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GARNER DRIVE



1 ELECTRICAL DEMOLITION SITE PLAN  
SCALE: N.T.S.



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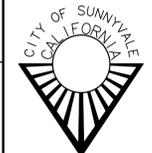
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ORCHARD GARDENS PARK EXPANSION PROJECT

ELECTRICAL PLANS  
DEMOLITION SITE PLAN

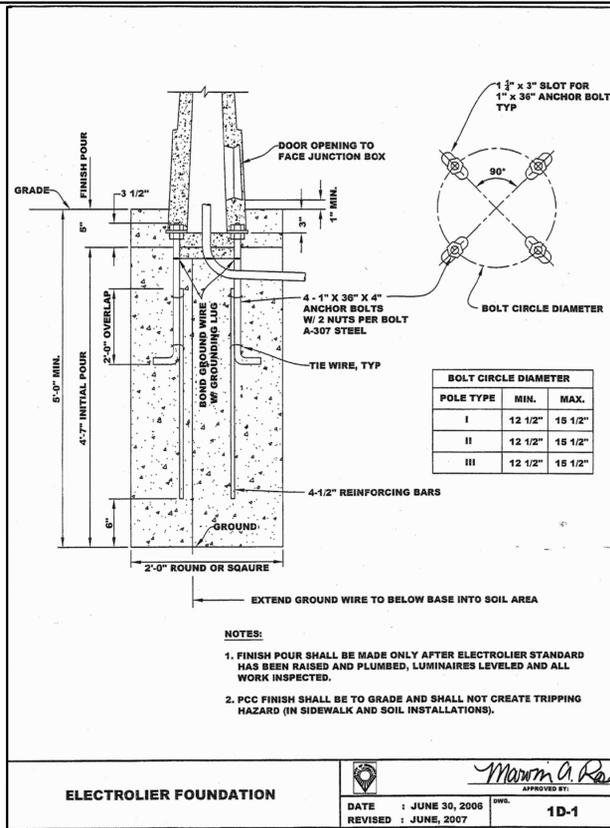


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California  
Department of Public Works  
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Sunnyvale 94088-3707

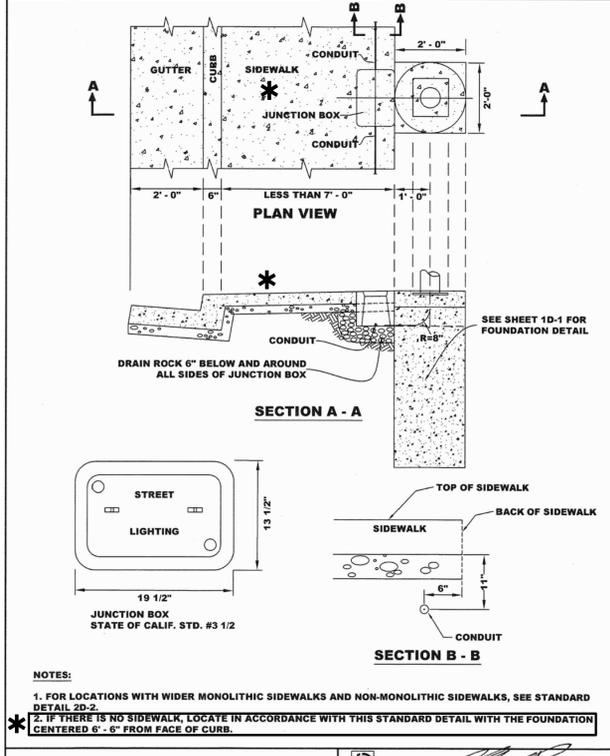
City of Sunnyvale  
Project No.  
PR-14/06-14

Drawing No.  
**E2**

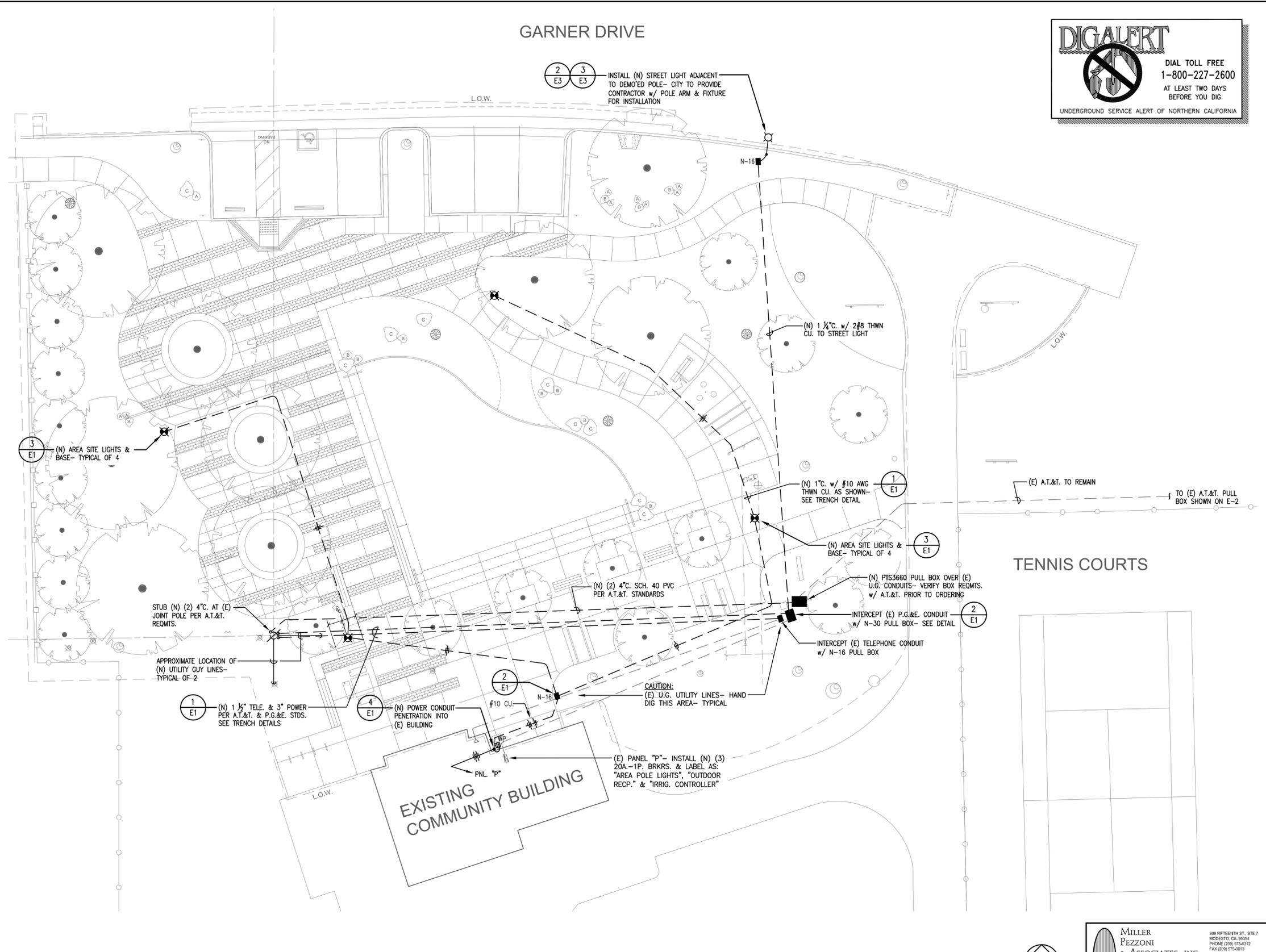
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



**2 ELECTROLIER FOUNDATION**  
 SCALE: N.T.S.



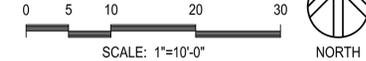
**3 ELECTROLIER & CONDUIT INSTALLATION**  
 SCALE: N.T.S.



TENNIS COURTS

EXISTING COMMUNITY BUILDING

GARNER DRIVE



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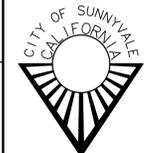
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**ORCHARD GARDENS PARK EXPANSION PROJECT**

**ELECTRICAL PLANS  
 PROPOSED SITE PLAN**



City of Sunnyvale  
 Santa Clara County  
 California  
 Department of Public Works  
 456 West Olive Avenue  
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 Sunnyvale 94088-3707

City of Sunnyvale  
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 Drawing No.  
**E3**  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

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