

# Peralta Community College District (PCCD)

## Department of General Services - Lighting and Security Repairs at Site Exterior

501 5th Ave.  
Oakland, CA 94606

### SHEET INDEX

#### GENERAL:

G0.1 COVER SHEET

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### APPLICABLE CODES

(MOST CURRENT VERSIONS AS ADOPTED BY CITY OF WOODLAND, CA AS OF JUNE 2022)

- TITLE 24 C.C.R. PART 2, CALIFORNIA BUILDING CODE (CBC)
- TITLE 24 C.C.R. PART 3, CALIFORNIA ELECTRICAL CODE (CEC)
- TITLE 24 C.C.R. PART 4, CALIFORNIA MECHANICAL CODE (CMC)
- TITLE 24 C.C.R. PART 5, CALIFORNIA PLUMBING CODE (CPC)
- TITLE 24 C.C.R. PART 6, CALIFORNIA ENERGY CODE (CEC)
- TITLE 24 C.C.R. PART 9, CALIFORNIA FIRE CODE (CFC)
- TITLE 24 C.C.R. PART 10, CALIFORNIA EXISTING BUILDING CODE (CEBC)
- TITLE 24 C.C.R. PART 11, CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) AND BUILDING ENERGY EFFICIENCY STANDARDS
- NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE
- NFPA 70, NATIONAL ELECTRICAL CODE
- NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
- NFPA 101, LIFE SAFETY CODE
- NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.

### PROJECT GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK. IMMEDIATELY NOTIFY PROJECT TEAM OF ALL DISCREPANCIES BETWEEN DRAWINGS AND THE PROJECT SITE CONDITIONS.
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGES WITHOUT THE APPROVAL OF PROJECT TEAM.
3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS ON THE JOB SITE INCLUDING SAFETY OF PUBLIC, WORKERS, PROPERTY, AND ENSURE COMPLIANCE WITH STATE OSHA AND DISTRICT GUIDELINES AND SAFETY REQUIREMENTS.
4. THE CONTRACTOR SHALL ENSURE THAT ALL WORK PERFORMED MEETS OR EXCEEDS THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES REFERENCED AS PART OF THESE CONSTRUCTION DOCUMENTS.
5. THE CONTRACTOR SHALL PROTECT THE EXISTING STRUCTURES AND LANDSCAPING ADJACENT TO THE CONSTRUCTION SITE, AND THEIR EQUIPMENT, FINISHES, AND FURNISHINGS FROM ANY DAMAGE DURING THE COURSE OF CONSTRUCTION. PUBLIC ACCESS TO ALL AREAS MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE ORIGINAL CONDITIONS.
6. THE CONTRACTOR SHALL COORDINATE WITH THEIR SUBCONTRACTORS TO IDENTIFY ALL LONG LEAD MATERIALS. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL.
7. THE CONTRACTOR AND THEIR RESPECTIVE SUBCONTRACTORS SHALL BE COMPLETELY RESPONSIBLE FOR ALL GENERAL NOTES, SPECIFICATIONS, AND OTHER PERTINENT INFORMATION AS INDICATED WITHIN THE RESPECTIVE CONSTRUCTION DRAWINGS FOR THEIR DISCIPLINE. DO NOT DELAY IF CLARIFICATION IS REQUIRED, SUBMIT REQUESTS FOR INFORMATION TO THE DESIGN CONSULTANT FOR THE RESPECTIVE DISCIPLINE AND FOLLOW FORMAL CONSTRUCTION INFORMATION EXCHANGE PRACTICES.
8. ACCESS TO THE JOB SITE AND STAGING AREAS (IF REQUIRED) ON ROADS AND PARKING LOTS SHALL BE ARRANGED BETWEEN CONTRACTORS AND DISTRICT REPRESENTATIVE.
9. THE CONTRACTOR SHALL SCHEDULE WORK WITH MINIMUM INTERFERENCE TO PROJECT SITE AND THE ACTIVITIES AND OPERATIONS OF ITS FACILITIES, COORDINATE WITH OWNER TO CLEARLY UNDERSTAND THE IMPACTS DURING THE COURSE OF CONSTRUCTION. LEGALLY DISPOSE OF DEBRIS AFTER EACH WORKING DAY SO AS TO NOT DISTURB THE NORMAL FUNCTION AND ACTIVITIES AT THE PROJECT SITE, DO NOT OBSTRUCT FIRE LANES AND EXITS.
10. AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY DEMOBILIZE FROM AND CLEAN THE PROJECT SITE.

### ABBREVIATIONS

SEE E0.1

### SYMBOLS

SEE E0.1

### DEFERRED SUBMITTALS

NONE.

### PROJECT SCOPE

#### BACKGROUND:

PERALTA COMMUNITY COLLEGE DISTRICT IS REQUESTING REPLACEMENT OF (E) MALFUNCTIONING EXTERIOR LIGHTING FIXTURES W/(N) LIKE-FOR-LIKE REPLACEMENT AS SPECIFIED TO ACCOMMODATE (E) SITE CONDITIONS AND IN-LINE W/PRESENT DAY INDUSTRY STANDARDS.

#### SCOPE:

THE SCOPE OF THIS PROJECT IS PRIMARILY ELECTRICAL.

THE CONTRACTOR SHALL SYSTEMATICALLY AND WITH MINIMAL IMPACT TO THE PROJECT SITE REPLACE THE (E) EXTERIOR LIGHTING FIXTURES AS SPECIFIED.

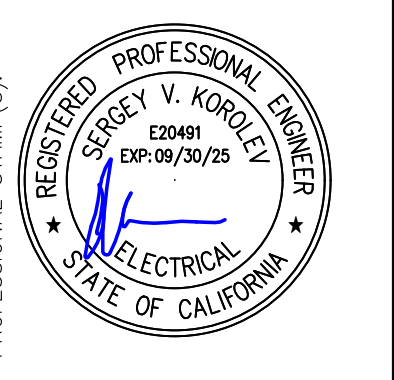
CONTRACTOR SHALL COORDINATE DEMOLITION AND NEW CONSTRUCTION SCOPE AND SCHEDULE WITH DISTRICT REPRESENTATIVE AND OTHER TRADES.

ALL PERMIT AND DISPOSAL FEES ARE CONTRACTORS RESPONSIBILITY. ALL WASTE MATERIAL RESULTING FROM DEMOLITION SHALL BE DISPOSED OF PER STATE AND FEDERAL REGULATIONS.

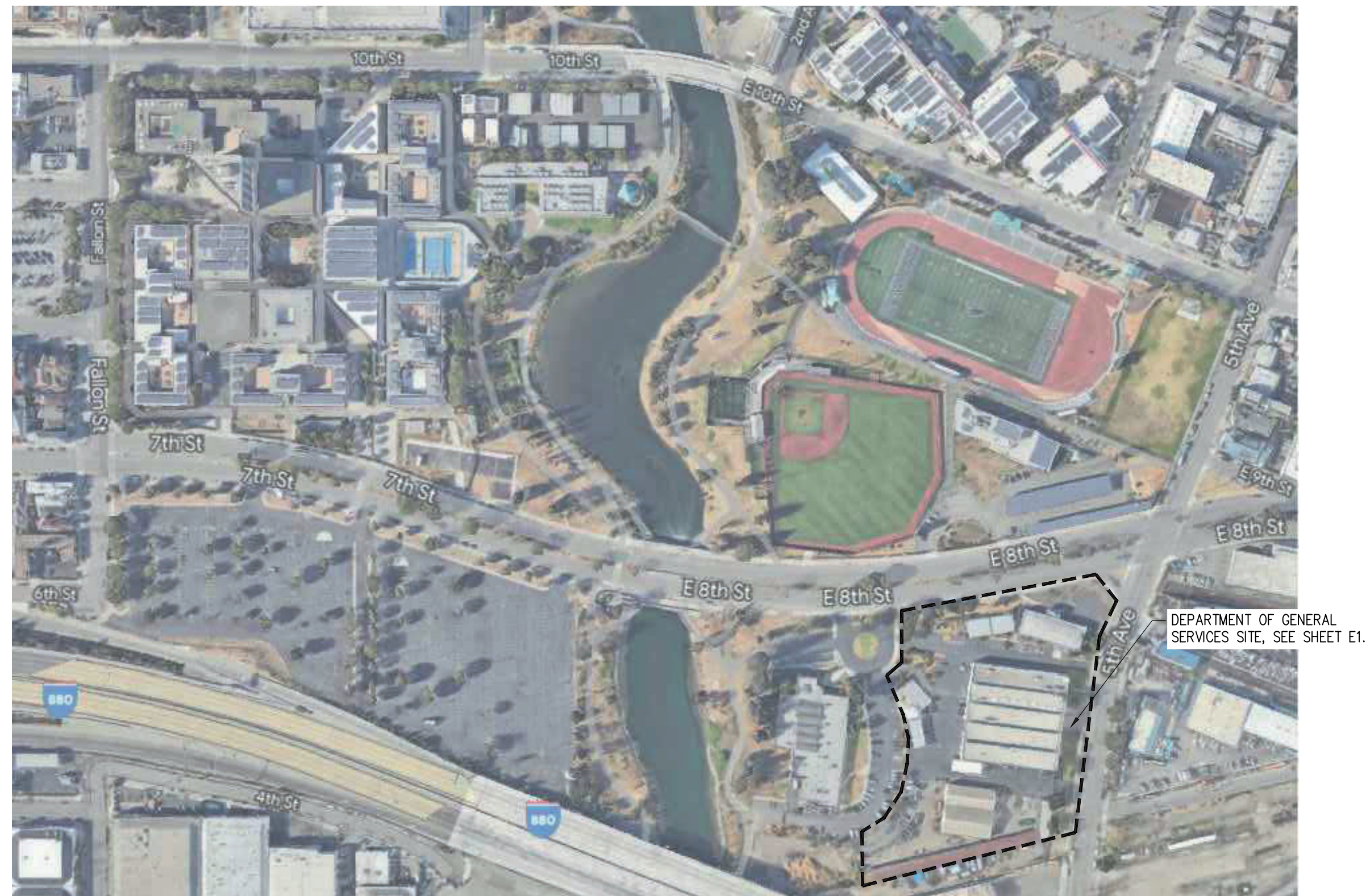
#### DSA:

THIS PROJECT HAS BEEN DETERMINED BY DISTRICT TO NOT BE SUBJECT TO DSA REVIEW PER DSA IR A-22 SECTION 1.3.1 - MAINTENANCE WORK PER CAC SECTION 4-315 AS DEFINED IN CAC SECTION 4-314.

REV.	PERMIT SET	DATE	REVISION/ISSUE DESCRIPTION	CHK BY
0	PERMIT SET	09/15/23		SVK

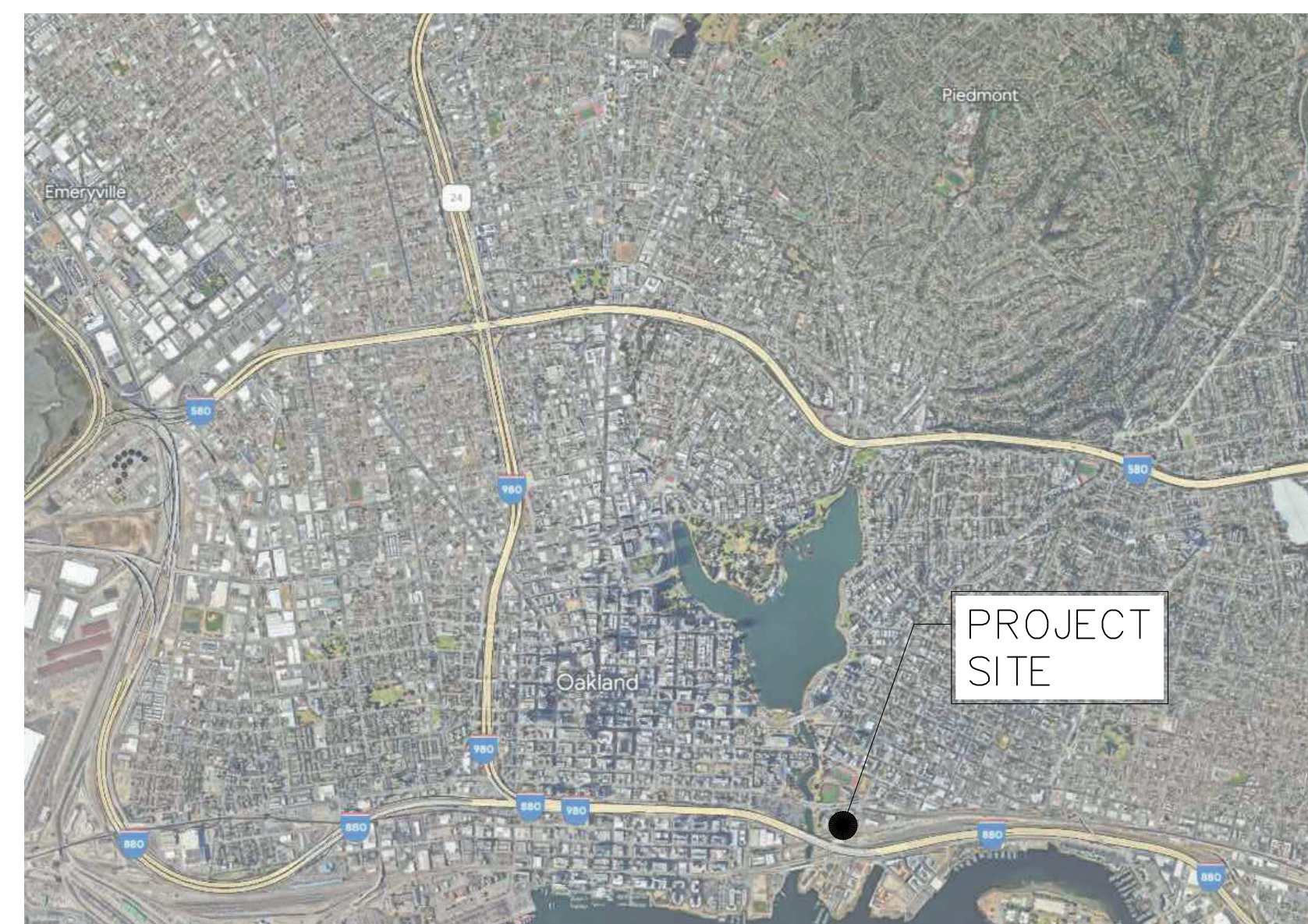


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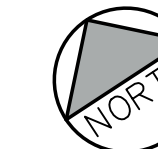
2 PROJECT SITE OVERVIEW

SCALE : N.T.S.



1 VICINITY MAP

SCALE : N.T.S.



PROJECT TITLE:	DEPARTMENT OF GENERAL SERVICES
PROJECT OWNER:	PERALTA COMMUNITY COLLEGE DISTRICT
DRAWING TITLE:	COVER SHEET
DATE:	02/27/2023
SCALE:	AS NOTED
DRAWN BY:	S. PAREDES
JOB NO.:	HLP2022-001
SHEET NO.:	G0.1
REV.:	0

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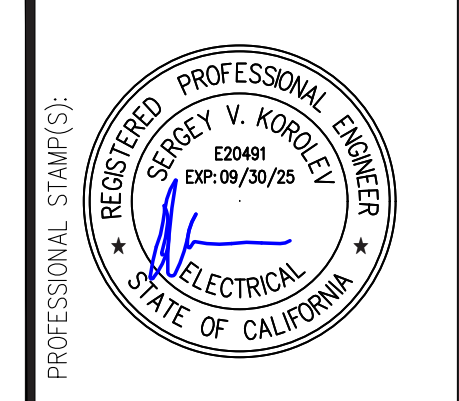




GENERAL NOTES:

- 1. EVERYONE'S SAFETY IS ALWAYS THE TOP PRIORITY! BE RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE. INCLUDING, BUT NOT LIMITED TO, THE SAFETY OF ALL PERSONS AND PROPERTY DURING PROJECT PLANNING AND CONSTRUCTION, AND WORK THAT IS PERFORMED OUTSIDE OF NORMAL WORKING HOURS.
2. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER UPON DISCOVERY OF CONFLICTS, ADVERSE SITE CONDITIONS OR DISCREPANCIES. ALL QUESTIONS REGARDING THIS PROJECT AND THE CONSTRUCTION DOCUMENTS, INCLUDING THOSE ADDRESSED TO THE ENGINEER OF RECORD FOR VARIOUS CONDITIONS, SOME OF WHICH ARE LISTED FURTHER IN THE GENERAL NOTES, SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER BY FORMAL CONSTRUCTION ADMINISTRATION PROCESS.
...
25. CONTRACTOR SHALL PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES FOR THE FOLLOWING EQUIPMENT INCLUDING BUT NOT LIMITED TO: METERS, PANELBOARDS, SWITCHBOARDS INCLUDING EACH INDIVIDUAL DEVICE OR PIECE OF EQUIPMENT WITHIN THE SWITCHBOARD, MOTOR CONTROL CENTERS (MCC) INCLUDING EACH DEVICE WITHIN THE MCC, ENCLOSED SWITCHES, STARTERS, CONTACTORS, CIRCUIT BREAKERS AND TRANSFORMERS.

Table with columns: REV., PERMIT SET, DATE, REVISION/ISSUE DESCRIPTION, CHK BY. Includes revision 0 for PERMIT SET and revision 09/15/23 for DATE.



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Table with project information: PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES, PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT, DRAWING TITLE: ELECTRICAL GENERAL NOTES, DATE: 02/27/2023, SCALE: AS NOTED, DRAWN BY: S. PAREDES, JOB NO.: HLP2022-001, SHEET NO.: E0.3, REV.: 0.

EQUIPMENT ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER RESPECTIVE MOUNTING DETAILS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE LATEST EDITION OF CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 LBS. ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
...
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND THE LATEST EDITION OF CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ANSI D (22.00 X 34.00 INCHES)

**NEW LIGHTING FIXTURE SCHEDULE**

TAG	SYMBOL	(APPROXIMATE) QUANTITY	DESCRIPTION	MANUFACTURER CATALOG NUMBER	VOLTAGE	NOMINAL LUMEN OUTPUT	WATTS	LM/ WATT	MOUNTING TYPE	APPROXIMATE WEIGHT (LBS.)	REMARKS & AREA OF USE
A		11	SIGNIFY-CARDCO MEDIUM SITE AND AREA FIXTURE MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) WITH DETACHABLE ARMS FOR QUICK MOUNTING, HEATSINK IS INTEGRAL TO THE HOUSING PROVIDING PASSIVE COOLING OF LEDS TO MAINTAIN LONG LED LIFE. TYPE 2 MEDIUM LED DISTRIBUTION, WARM WHITE 3,000K, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B3-U0-G3.	OPF-M-110-830-T2M-WAL-UNV-NONE-FS1-BK W/OPF-WAL-(F) & FS1	UNV	19256	112	172	SURFACE MOUNT TO EXTERIOR WALL	13.5	PERIMETER OF PCCD WAREHOUSE, SITE AND ROADWAY LIGHTING
B		12	SIGNIFY-DAY-BRITE 4' LINEAR SUSPENDED FIXTURE, LBX IS EASY TO INSTALL AND CAN BE MOUNTED TOGETHER IN RUNS, METAL HOUSING PROVIDES EXCELLENT THERMAL TRANSFER TO EXTEND COMPONENT LIFE. END HOLES TO ATTACH V-BRACKET FOR CHAIN OR CABLE HANGING, 7/8" K.O. AT EACH END OF LUMINAIRE FOR WIRING OR MOTION DETECTOR, POLYESTER POWDER FINISH FOR EXCELLENT IMPACT AND CORROSION RESISTANCE, OVAL UPLIGHT, WARM WHITE 3,000K, 80 CRI, 0-10V DIMMING DRIVER, ETL AND DLC/DLC PREMIUM LISTED, DAMP LOCATION, 5-YEAR WARRANTY.  LBX-HANGER BKT - HANGING BRACKET (PAIR), FKR-126 - (2) 5'-0" CHAINS AND "V" HOOKS, LBX-WGUD4 - 4'-0" WHITE WIRE GUARD FOR UD LENS, E.A. FIXTURE.	LBX-40L-830-UNV-M-UD W/LBX-HANGER BKT, FKR-126, & LBX-WGUD4	UNV	4167	31	137	6" PENDANT SUSPENDED FROM STEEL OR WOOD CEILING JOIST BEAMS	6	UNDER INDUSTRIAL CANOPY AND ROOF OF GROUNDS SHED AND AUX. STORAGE BLDGS.
C		32	SIGNIFY-CARDCO MEDIUM WEDGE WALL SCONCE FIXTURE, FEATURES SPECIALIZED, HIGHLY EFFICIENT PRECISION PLUS OPTICS WHICH BALANCE LOW GLARE WITH EXCELLENT PERFORMANCE, MAIN BODY HOUSING AND DOOR FRAME MADE OF LOW COPPER DIE CAST ALUMINUM ALLOW FOR A HIGH RESISTANCE TO CORROSION, REMOVABLE DIE CAST BACKPLATE TO ALLOW ACCESS TO DRIVER OR OTHER ELECTRONIC COMPONENTS FOR SERVICING, THE HOUSING ACTS AS THE MAIN HEAT SINKING COMPONENT FOR MAXIMUM THERMAL DISSIPATION, WARM WHITE 3,000K, TYPE 2 LED DISTRIBUTION, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B1-U0-G1.  GF-WS-BK - WALL MOUNTED BOX FOR SURFACE CONDUIT, PAINTED BLACK, FOR E.A. FIXTURE.	GWM-A07-830-T2M-UNV-NONE-NONE-NONE-BK W/GF-WS-BK	UNV	3522	23	153	SURFACE MOUNT TO EXTERIOR WALL	8	PERIMETER OF PORTABLES, CONROY BLDG., AND OTHER BLDGS. AT SITE
D		5	SIGNIFY-CARDCO ARCHITECTURAL ADJUSTABLE FLOOD LIGHT FIXTURE, MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) FOR A HIGH RESISTANCE TO CORROSION, 0.100" MINIMUM THICKNESS. SIDE RAIL EXTRUSIONS MADE OF CORROSION RESISTANT LOW COPPER EXTRUDED ANODIZED ALUMINUM ALLOW (ANODIZED 6063-T5). A33 ASYMETRIC 33 DEGREES FLOOD DISTRIBUTION, WARM WHITE 3,000K, 70 CRI GENERATION 2, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP66, 5-YEAR WARRANTY.  ADJUSTABLE YOKE WITH 9' OF AWG 16-5 SEOOV CORD, IP66 CORD SEAL, YOKE MADE OF HIGH STRENGTH STEEL, GALVANIZED AND PAINTED FOR HIGH RESISTANCE TO CORROSION, 5 DEG. AIMING INCREMENTS WITH BOLTS TO SECURE AIMING IN PLACE, TILT UP 60 DEGREES.	PFF-138L-700-WW-G2-YK-A33-UNV-NONE-F1-BLANK-NONE-BLANK-BK W/F1	UNV	42,433	289	146.8	SURFACE MOUNT TO EXTERIOR WALL, FIXTURE TILTS ON YOKE	66	EXTERIOR WALL OF FIELD BUTLER, YARD, AND AUX. STORAGE FLOOD LIGHT FOR SITE SECURITY
F		3	SIGNIFY-CARDCO SMALL SITE AND AREA FIXTURE MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) WITH DETACHABLE ARMS FOR QUICK MOUNTING, HEATSINK IS INTEGRAL TO THE HOUSING PROVIDING PASSIVE COOLING OF LEDS TO MAINTAIN LONG LED LIFE. TYPE 2 MEDIUM LED DISTRIBUTION, WARM WHITE 3,000K, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B2-U0-G2.	OPF-S-A01-830-T2M-AR1-NONE-FS1-BK W/OPF-RMB	UNV	6,991	39	179.3	SURFACE MOUNT TO (E) POLES	11.5	SITE AND ROADWAY LIGHTING

NOTES:

- ALL LIGHTING FIXTURES SHALL BE OF LED SOURCE TYPE.
- ALL EXTERIOR LIGHTING FIXTURE SHALL BE OF BLACK TRIM. REFER TO LIGHTING FIXTURE BINDER FOR DETAILS.
- ALL FIXTURES SHALL BE RATED FOR RECEIVING POWER FROM 120VAC OR 277VAC BRANCH CIRCUITS, U.O.N.
- MOUNT FIXTURES ACCORDING TO MANUFACTURER'S REQUIREMENT AND PROVIDE MOUNTING ACCESSORIES PER MANUFACTURER'S STANDARDS.

**CODE COMPLIANCE AND COMMISSIONING:**

AS REQUIRED PRIOR TO APPLYING FOR SUBSTANTIAL COMPLETION; ALL APPLICABLE REQUIREMENTS, TESTING, DOCUMENTATION AND RECORD OF CONFORMANCE SHALL BE SUBMITTED IN ACCORDANCE WITH CALIFORNIA ENERGY CODE 10-103(A); INCLUDING, BOT NOT LIMITED TO, THE INSTALLATION CERTIFICATE FOR THE LIGHTING CONTROL SYSTEM AS PER CALIFORNIA ENERGY CODE SECTION 130.4(B).

BEFORE AN OCCUPANCY PERMIT IS GRANTED, INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING SHALL BE CERTIFIED AS MEETING THE ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE IN ACCORDANCE WITH CALIFORNIA ENERGY CODE SECTION 130.4(A).

THE COMPLIANCE FORMS FOUND AS PART OF THIS SET ON RESPECTIVE ENERGY COMPLIANCE DRAWINGS SHALL BE SIGNED BY THE ELECTRICAL ENGINEER FOR THE DESIGN, THE ELECTRICAL CONTRACTOR FOR THE INSTALLATION, AND THE COMMISSIONING PARTY FOR COMPLIANCE.

\*REVIEW AND COMPLY WITH ANY ADDITIONAL REQUIREMENTS OF NOTE 46 ON E0.3.

**LIGHTING TYPICAL SEQUENCE OF OPERATIONS:**

EXTERIOR AREAS

- MANUAL OVERRIDE OF AUTOMATIC FUNCTION ON OR OFF FROM ASTRONOMICAL TIMER CONTROL PANEL.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN ON BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN OFF BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL TIMERS AT SITE SHALL BE PROGRAMMED WITH THE SAME SETTINGS TO ENSURE ALL FIXTURES TURN ON OR OFF AT THE SAME TIME.

GROUNDS SHED AND AUX. STORAGE INTERIOR AREAS

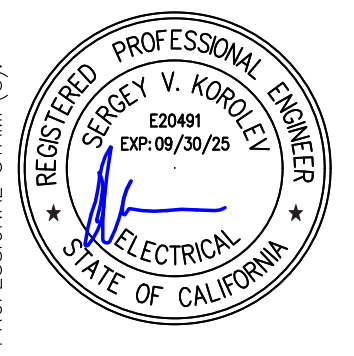
- MANUAL OVERRIDE OF AUTOMATIC FUNCTION ON OR OFF FROM ASTRONOMICAL TIMER CONTROL PANEL.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN ON BASED ON ASTRONOMICAL TIMER SETTINGS.
- AFTER TURNING ON BY ASTRONOMICAL TIMER LIGHTING ILLUMINATES AT 100%, IF NO MOTION IS DETECTED FOR 15 MINUTES BY OCC. SENSOR, THEN LIGHTING DIMS TO 30%, ONCE MOTION IS DETECTED LIGHTING RETURNS TO 100%.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN OFF BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL TIMERS AT SITE SHALL BE PROGRAMMED WITH THE SAME SETTINGS TO ENSURE ALL FIXTURES TURN ON OR OFF AT THE SAME TIME.

**NEW LIGHTING CONTROL DEVICES SCHEDULE**

SYMBOL	DESCRIPTION	MANUFACTURER CATALOG NUMBER	INPUT VOLTAGE	MOUNTING TYPE	REMARKS & AREA OF USE
FSP	WATTSTOPPER ON/OFF/0-10 VOLT DIMMING OUTDOOR EXTERIOR FIXTURE CONTROLLER, PROVIDES MULTI-LEVEL CONTROL BASED ON MOTION AND/OR DAYLIGHT CONTRIBUTION, UL LISTED.	FSP-311B-S-L3-B	UNV	STRAIGHT NIPPLE, J-BOX	LOCAL DIMMING CONTROL
TM-X	TORK NSI ASTRONOMICAL TIMER, DWZ SERIES, 365/7 DAY ADVANCED MULTIPURPOSE CONTROLS 2 CHANNELS, SCHEDULING, SUNSET ASTRONOMIC, ADJUSTS FOR DAYLIGHT SAVING, LEAP YEAR, EQUIPPED WITH MANUAL OVERRIDE, 7-DAY POWER OUTAGE BACKUP, UL LISTED. "X" IN TM-X INDICATES TIMER NUMBER IN SEQUENCE, NEMA 3R NORYL INDOOR/OUTDOOR ENCLOSURE.	DWZ200B	120VAC, 208-240VAC, 277VAC	SURFACE MOUNT	LOCAL ASTRONOMIC TIMER AND MANUAL OVERRIDE

NOTES:

- ELECTRICAL CONTRACTOR SHALL PROGRAM AND CONFIGURE THE LIGHTING CONTROL SYSTEM TO BE PER SEQUENCE OF OPERATION SPECIFIED AND THE FINISHED INSTALLATION SHALL MEET OR EXCEED TITLE 24 REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL REFER TO TYPICAL WIRING DIAGRAMS AND PROVIDE REQUIRED CABLING SHOWN. FOLLOW PROPER WIRING TERMINATION PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL LIGHTING CONTROL COMPONENTS, CABLING AND/OR HARDWARE TO CONSTRUCT AND COMMISSION A COMPLETE AND FUNCTIONING LIGHTING CONTROL SYSTEM.
- ELECTRICAL CONTRACTOR SHALL INSTALL LIGHTING CONTROL DEVICES ACCORDING TO MANUFACTURER'S REQUIREMENT AND ENVIRONMENT CONDITIONS BASED ON DEVICE LOCATION AND INTENDED USE SHOWN ON RESPECTIVE DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE A 1-DAY SITE VISIT WITH EFOR AT LEAST 2-WEEKS IN ADVANCE TO DEMONSTRATE COMPLIANCE OF THE LIGHTING CONTROL SYSTEM FUNCTIONALITY WITH SEQUENCE OF OPERATION UNDER NORMAL CONDITIONS, AND WITH CALIFORNIA ENERGY AND EMERGENCY EGRESS REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ADDITIONAL SITE VISITS UNTIL THE EFOR DEEMS THE LIGHTING CONTROL SYSTEM TO BE IN AN ACCEPTABLE STATE AND READY FOR THIRD PARTY COMMISSIONING. SEE NOTE 46 ON E0.3.



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PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
 501 5TH AVE., OAKLAND, CA 94606  
 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
 333 E. 8TH ST., OAKLAND, CA 94606  
 DRAWING TITLE: LIGHTING FIXTURE AND CONTROL SCHEDULE, SEQUENCE OF OPERATIONS

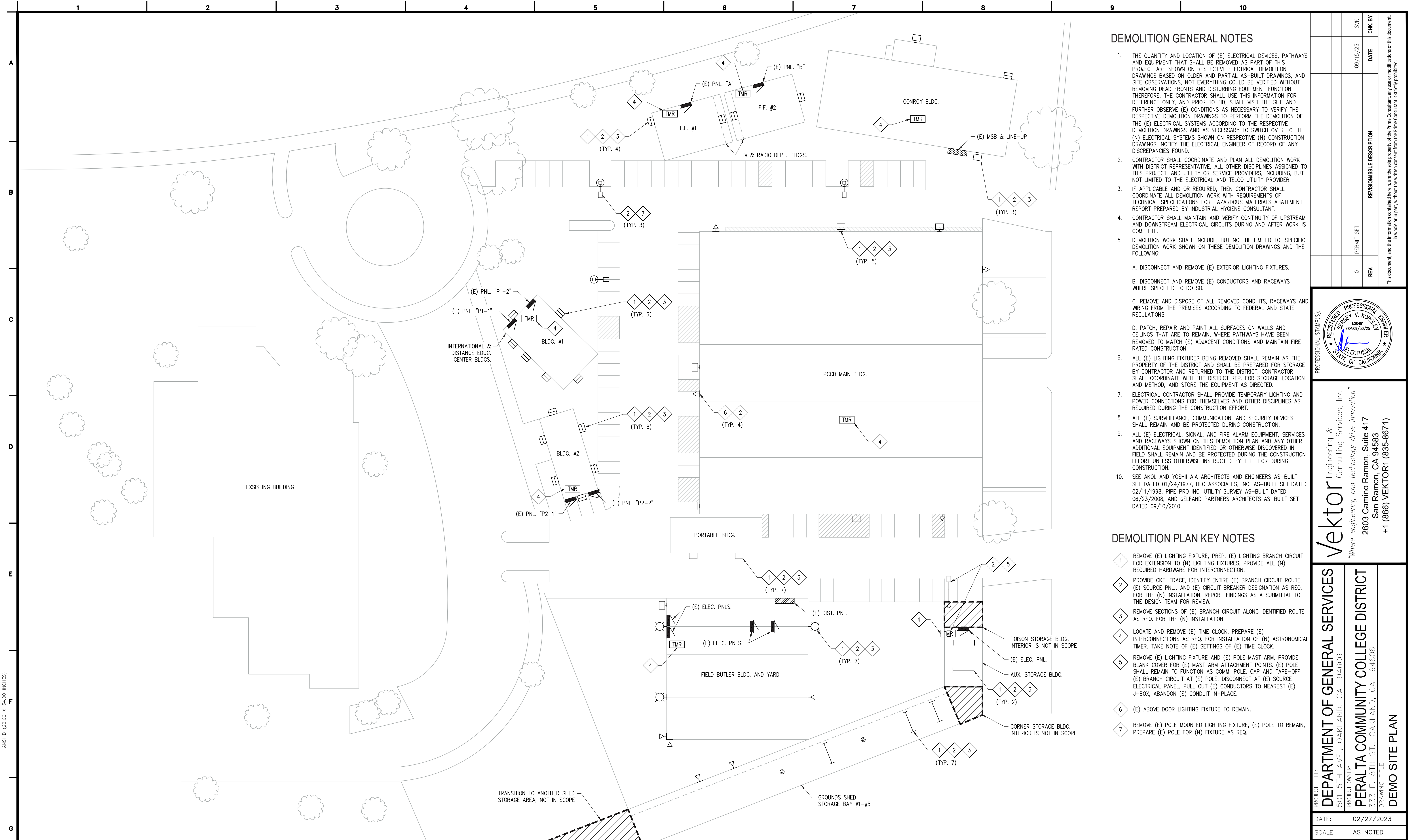
DATE: 02/27/2023  
 SCALE: AS NOTED  
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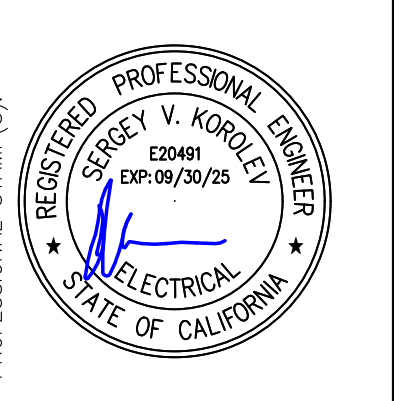
**DEMOLITION GENERAL NOTES**

- THE QUANTITY AND LOCATION OF (E) ELECTRICAL DEVICES, PATHWAYS AND EQUIPMENT THAT SHALL BE REMOVED AS PART OF THIS PROJECT ARE SHOWN ON RESPECTIVE ELECTRICAL DEMOLITION DRAWINGS BASED ON OLDER AND PARTIAL AS-BUILT DRAWINGS, AND SITE OBSERVATIONS, NOT EVERYTHING COULD BE VERIFIED WITHOUT REMOVING DEAD FRONTS AND DISTURBING EQUIPMENT FUNCTION. THEREFORE, THE CONTRACTOR SHALL USE THIS INFORMATION FOR REFERENCE ONLY, AND PRIOR TO BID, SHALL VISIT THE SITE AND FURTHER OBSERVE (E) CONDITIONS AS NECESSARY TO VERIFY THE RESPECTIVE DEMOLITION DRAWINGS TO PERFORM THE DEMOLITION OF THE (E) ELECTRICAL SYSTEMS ACCORDING TO THE RESPECTIVE DEMOLITION DRAWINGS AND AS NECESSARY TO SWITCH OVER TO THE (N) ELECTRICAL SYSTEMS SHOWN ON RESPECTIVE (N) CONSTRUCTION DRAWINGS, NOTIFY THE ELECTRICAL ENGINEER OF RECORD OF ANY DISCREPANCIES FOUND.
- CONTRACTOR SHALL COORDINATE AND PLAN ALL DEMOLITION WORK WITH DISTRICT REPRESENTATIVE, ALL OTHER DISCIPLINES ASSIGNED TO THIS PROJECT, AND UTILITY OR SERVICE PROVIDERS, INCLUDING, BUT NOT LIMITED TO THE ELECTRICAL AND TELCO UTILITY PROVIDER.
- IF APPLICABLE AND OR REQUIRED, THEN CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH REQUIREMENTS OF TECHNICAL SPECIFICATIONS FOR HAZARDOUS MATERIALS ABATEMENT REPORT PREPARED BY INDUSTRIAL HYGIENE CONSULTANT.
- CONTRACTOR SHALL MAINTAIN AND VERIFY CONTINUITY OF UPSTREAM AND DOWNSTREAM ELECTRICAL CIRCUITS DURING AND AFTER WORK IS COMPLETE.
- DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, SPECIFIC DEMOLITION WORK SHOWN ON THESE DEMOLITION DRAWINGS AND THE FOLLOWING:
  - A. DISCONNECT AND REMOVE (E) EXTERIOR LIGHTING FIXTURES.
  - B. DISCONNECT AND REMOVE (E) CONDUCTORS AND RACEWAYS WHERE SPECIFIED TO DO SO.
  - C. REMOVE AND DISPOSE OF ALL REMOVED CONDUITS, RACEWAYS AND WIRING FROM THE PREMISES ACCORDING TO FEDERAL AND STATE REGULATIONS.
  - D. PATCH, REPAIR AND PAINT ALL SURFACES ON WALLS AND CEILING THAT ARE TO REMAIN, WHERE PATHWAYS HAVE BEEN REMOVED TO MATCH (E) ADJACENT CONDITIONS AND MAINTAIN FIRE RATED CONSTRUCTION.
- ALL (E) LIGHTING FIXTURES BEING REMOVED SHALL REMAIN AS THE PROPERTY OF THE DISTRICT AND SHALL BE PREPARED FOR STORAGE BY CONTRACTOR AND RETURNED TO THE DISTRICT. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT REP. FOR STORAGE LOCATION AND METHOD, AND STORE THE EQUIPMENT AS DIRECTED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER CONNECTIONS FOR THEMSELVES AND OTHER DISCIPLINES AS REQUIRED DURING THE CONSTRUCTION EFFORT.
- ALL (E) SURVEILLANCE, COMMUNICATION, AND SECURITY DEVICES SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- ALL (E) ELECTRICAL, SIGNAL, AND FIRE ALARM EQUIPMENT, SERVICES AND RACEWAYS SHOWN ON THIS DEMOLITION PLAN AND ANY OTHER ADDITIONAL EQUIPMENT IDENTIFIED OR OTHERWISE DISCOVERED IN FIELD SHALL REMAIN AND BE PROTECTED DURING THE CONSTRUCTION EFFORT UNLESS OTHERWISE INSTRUCTED BY THE EOR DURING CONSTRUCTION.
- SEE AKOL AND YOSHII AIA ARCHITECTS AND ENGINEERS AS-BUILT SET DATED 01/24/1977, HLC ASSOCIATES, INC. AS-BUILT SET DATED 02/11/1998, PIPE PRO INC. UTILITY SURVEY AS-BUILT DATED 06/23/2008, AND GELFAND PARTNERS ARCHITECTS AS-BUILT SET DATED 09/10/2010.

**DEMOLITION PLAN KEY NOTES**

- 1 REMOVE (E) LIGHTING FIXTURE, PREP. (E) LIGHTING BRANCH CIRCUIT FOR EXTENSION TO (N) LIGHTING FIXTURES, PROVIDE ALL (N) REQUIRED HARDWARE FOR INTERCONNECTION.
- 2 PROVIDE CKT. TRACE, IDENTIFY ENTIRE (E) BRANCH CIRCUIT ROUTE, (E) SOURCE PNL., AND (E) CIRCUIT BREAKER DESIGNATION AS REQ. FOR THE (N) INSTALLATION, REPORT FINDINGS AS A SUBMITTAL TO THE DESIGN TEAM FOR REVIEW.
- 3 REMOVE SECTIONS OF (E) BRANCH CIRCUIT ALONG IDENTIFIED ROUTE AS REQ. FOR THE (N) INSTALLATION.
- 4 LOCATE AND REMOVE (E) TIME CLOCK, PREPARE (E) INTERCONNECTIONS AS REQ. FOR INSTALLATION OF (N) ASTRONOMICAL TIMER. TAKE NOTE OF (E) SETTINGS OF (E) TIME CLOCK.
- 5 REMOVE (E) LIGHTING FIXTURE AND (E) POLE MAST ARM, PROVIDE BLANK COVER FOR (E) MAST ARM ATTACHMENT POINTS. (E) POLE SHALL REMAIN TO FUNCTION AS COMM. POLE. CAP AND TAPE-OFF (E) BRANCH CIRCUIT AT (E) POLE, DISCONNECT AT (E) SOURCE ELECTRICAL PANEL, PULL OUT (E) CONDUCTORS TO NEAREST (E) J-BOX, ABANDON (E) CONDUIT IN-PLACE.
- 6 (E) ABOVE DOOR LIGHTING FIXTURE TO REMAIN.
- 7 REMOVE (E) POLE MOUNTED LIGHTING FIXTURE, (E) POLE TO REMAIN, PREPARE (E) POLE FOR (N) FIXTURE AS REQ.

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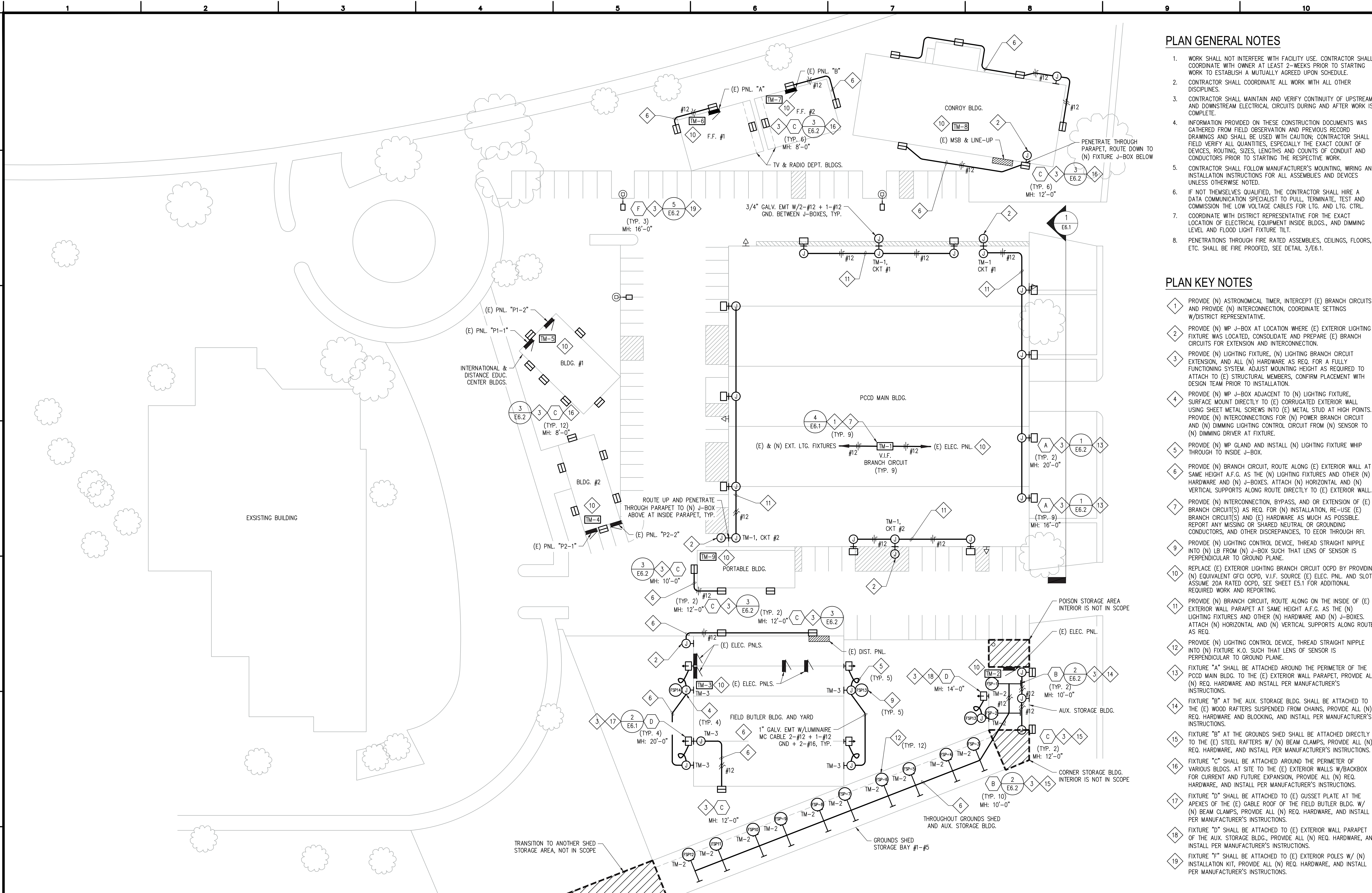
**DEPARTMENT OF GENERAL SERVICES**  
 501 5TH AVE., OAKLAND, CA 94606  
**PERALTA COMMUNITY COLLEGE DISTRICT**  
 333 E. 8TH ST., OAKLAND, CA 94606  
**DEMO SITE PLAN**

PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
 PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
 DATE: 02/27/2023  
 SCALE: AS NOTED  
 DRAWN BY: S. PAREDES  
 JOB NO. HLP2022-001  
 SHEET NO. REV.  
**E1.1D** 0

**1 DEMO SITE PLAN**  
 SCALE : 1" = 30'

ANSI D (22.00 X 34.00 INCHES)

ANSI D (22.00 X 34.00 INCHES)



1 SITE PLAN  
 SCALE : 1" = 30'  
 NORTH

**PLAN GENERAL NOTES**

- WORK SHALL NOT INTERFERE WITH FACILITY USE. CONTRACTOR SHALL COORDINATE WITH OWNER AT LEAST 2-WEEKS PRIOR TO STARTING WORK TO ESTABLISH A MUTUALLY AGREED UPON SCHEDULE.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER DISCIPLINES.
- CONTRACTOR SHALL MAINTAIN AND VERIFY CONTINUITY OF UPSTREAM AND DOWNSTREAM ELECTRICAL CIRCUITS DURING AND AFTER WORK IS COMPLETE.
- INFORMATION PROVIDED ON THESE CONSTRUCTION DOCUMENTS WAS GATHERED FROM FIELD OBSERVATION AND PREVIOUS RECORD DRAWINGS AND SHALL BE USED WITH CAUTION; CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES, ESPECIALLY THE EXACT COUNT OF DEVICES, ROUTING, SIZES, LENGTHS AND COUNTS OF CONDUIT AND CONDUCTORS PRIOR TO STARTING THE RESPECTIVE WORK.
- CONTRACTOR SHALL FOLLOW MANUFACTURER'S MOUNTING, WIRING AND INSTALLATION INSTRUCTIONS FOR ALL ASSEMBLIES AND DEVICES UNLESS OTHERWISE NOTED.
- IF NOT THEMSELVES QUALIFIED, THE CONTRACTOR SHALL HIRE A DATA COMMUNICATION SPECIALIST TO PULL, TERMINATE, TEST AND COMMISSION THE LOW VOLTAGE CABLES FOR LTG. AND LTG. CTRL.
- COORDINATE WITH DISTRICT REPRESENTATIVE FOR THE EXACT LOCATION OF ELECTRICAL EQUIPMENT INSIDE BLDGS., AND DIMMING LEVEL AND FLOOD LIGHT FIXTURE TILT.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, CEILINGS, FLOORS, ETC. SHALL BE FIRE PROOFED, SEE DETAIL 3/E6.1.

**PLAN KEY NOTES**

- PROVIDE (N) ASTRONOMICAL TIMER, INTERCEPT (E) BRANCH CIRCUITS AND PROVIDE (N) INTERCONNECTION, COORDINATE SETTINGS W/DISTRICT REPRESENTATIVE.
- PROVIDE (N) WP J-BOX AT LOCATION WHERE (E) EXTERIOR LIGHTING FIXTURE WAS LOCATED, CONSOLIDATE AND PREPARE (E) BRANCH CIRCUITS FOR EXTENSION AND INTERCONNECTION.
- PROVIDE (N) LIGHTING FIXTURE, (N) LIGHTING BRANCH CIRCUIT EXTENSION, AND ALL (N) HARDWARE AS REQ. FOR A FULLY FUNCTIONING SYSTEM. ADJUST MOUNTING HEIGHT AS REQUIRED TO ATTACH TO (E) STRUCTURAL MEMBERS, CONFIRM PLACEMENT WITH DESIGN TEAM PRIOR TO INSTALLATION.
- PROVIDE (N) WP J-BOX ADJACENT TO (N) LIGHTING FIXTURE, SURFACE MOUNT DIRECTLY TO (E) CORRUGATED EXTERIOR WALL USING SHEET METAL SCREWS INTO (E) METAL STUD AT HIGH POINTS. PROVIDE (N) INTERCONNECTIONS FOR (N) POWER BRANCH CIRCUIT AND (N) DIMMING LIGHTING CONTROL CIRCUIT FROM (N) SENSOR TO (N) DIMMING DRIVER AT FIXTURE.
- PROVIDE (N) WP GLAND AND INSTALL (N) LIGHTING FIXTURE WHIP THROUGH TO INSIDE J-BOX.
- PROVIDE (N) BRANCH CIRCUIT, ROUTE ALONG (E) EXTERIOR WALL AT SAME HEIGHT A.F.G. AS THE (N) LIGHTING FIXTURES AND OTHER (N) HARDWARE AND (N) J-BOXES. ATTACH (N) HORIZONTAL AND (N) VERTICAL SUPPORTS ALONG ROUTE DIRECTLY TO (E) EXTERIOR WALL.
- PROVIDE (N) INTERCONNECTION, BYPASS, AND OR EXTENSION OF (E) BRANCH CIRCUIT(S) AS REQ. FOR (N) INSTALLATION, RE-USE (E) BRANCH CIRCUIT(S) AND (E) HARDWARE AS MUCH AS POSSIBLE. REPORT ANY MISSING OR SHARED NEUTRAL OR GROUNDING CONDUCTORS, AND OTHER DISCREPANCIES, TO EOR THROUGH RFI.
- PROVIDE (N) LIGHTING CONTROL DEVICE, THREAD STRAIGHT NIPPLE INTO (N) LB FROM (N) J-BOX SUCH THAT LENS OF SENSOR IS PERPENDICULAR TO GROUND PLANE.
- REPLACE (E) EXTERIOR LIGHTING BRANCH CIRCUIT OCPD BY PROVIDING (N) EQUIVALENT GFI OCPD, V.I.F. SOURCE (E) ELEC. PNL. AND SLOT, ASSUME 20A RATED OCPD, SEE SHEET E5.1 FOR ADDITIONAL REQUIRED WORK AND REPORTING.
- PROVIDE (N) BRANCH CIRCUIT, ROUTE ALONG ON THE INSIDE OF (E) EXTERIOR WALL PARAPET AT SAME HEIGHT A.F.G. AS THE (N) LIGHTING FIXTURES AND OTHER (N) HARDWARE AND (N) J-BOXES. ATTACH (N) HORIZONTAL AND (N) VERTICAL SUPPORTS ALONG ROUTE AS REQ.
- PROVIDE (N) LIGHTING CONTROL DEVICE, THREAD STRAIGHT NIPPLE INTO (N) FIXTURE K.O. SUCH THAT LENS OF SENSOR IS PERPENDICULAR TO GROUND PLANE.
- FIXTURE "A" SHALL BE ATTACHED AROUND THE PERIMETER OF THE PCCD MAIN BLDG. TO THE (E) EXTERIOR WALL PARAPET, PROVIDE ALL (N) REQ. HARDWARE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "B" AT THE AUX. STORAGE BLDG. SHALL BE ATTACHED TO THE (E) WOOD RAFTERS SUSPENDED FROM CHAINS, PROVIDE ALL (N) REQ. HARDWARE AND BLOCKING, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "B" AT THE GROUNDS SHED SHALL BE ATTACHED DIRECTLY TO THE (E) STEEL RAFTERS W/ (N) BEAM CLAMPS, PROVIDE ALL (N) REQ. HARDWARE, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "C" SHALL BE ATTACHED AROUND THE PERIMETER OF VARIOUS BLDGS. AT SITE TO THE (E) EXTERIOR WALLS W/BACKBOX FOR CURRENT AND FUTURE EXPANSION, PROVIDE ALL (N) REQ. HARDWARE, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "D" SHALL BE ATTACHED TO (E) GUSSET PLATE AT THE APICES OF THE (E) GABLE ROOF OF THE FIELD BUTLER BLDG. W/ (N) BEAM CLAMPS, PROVIDE ALL (N) REQ. HARDWARE, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "D" SHALL BE ATTACHED TO (E) EXTERIOR WALL PARAPET OF THE AUX. STORAGE BLDG., PROVIDE ALL (N) REQ. HARDWARE, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FIXTURE "T" SHALL BE ATTACHED TO (E) EXTERIOR POLES W/ (N) INSTALLATION KIT, PROVIDE ALL (N) REQ. HARDWARE, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

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PROJECT TITLE: **DEPARTMENT OF GENERAL SERVICES**  
 501 5TH AVE., OAKLAND, CA 94606

PROJECT OWNER: **PERALTA COMMUNITY COLLEGE DISTRICT**  
 333 E. 8TH ST., OAKLAND, CA 94606

DRAWING TITLE: **SITE PLAN**

DATE: 02/27/2023

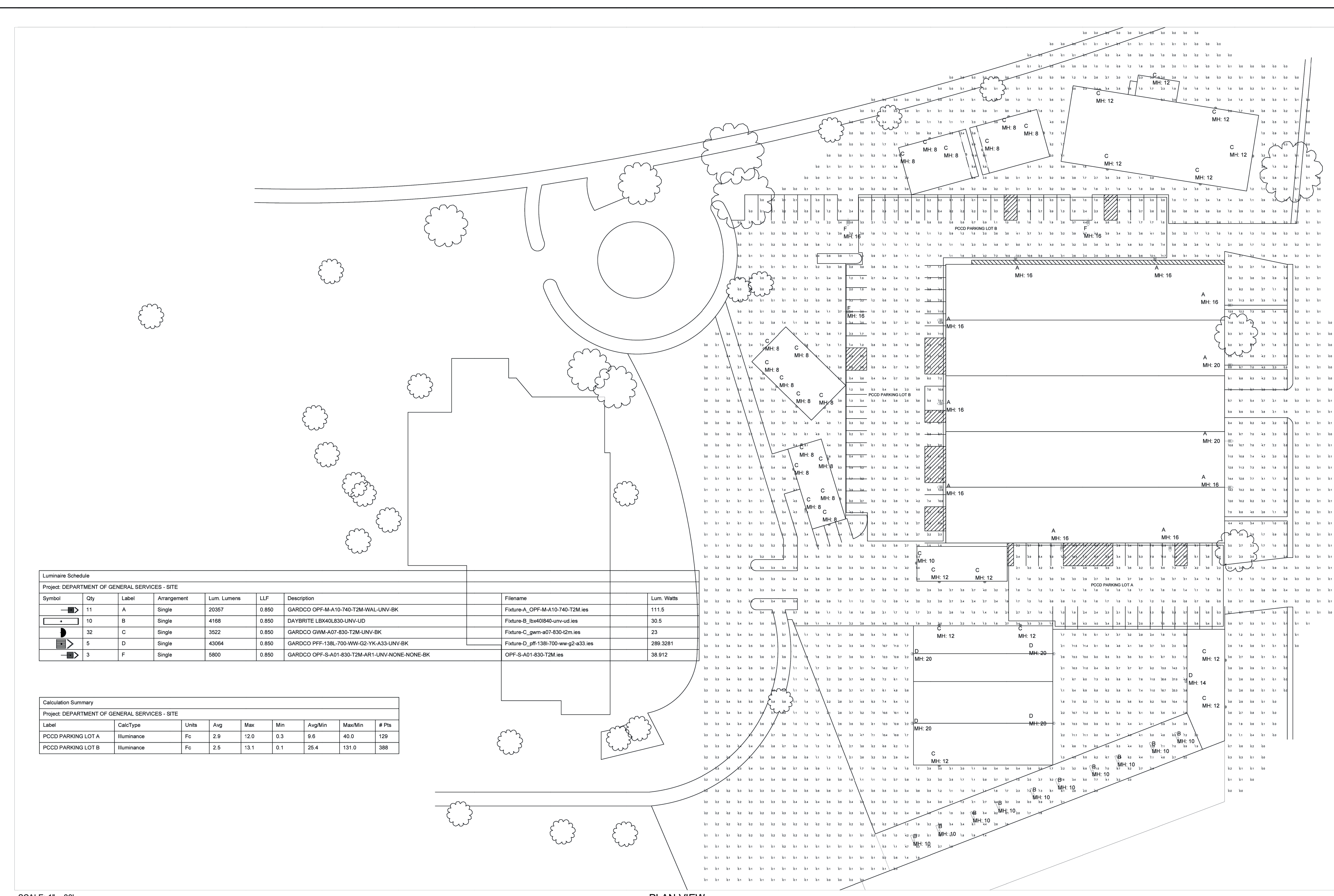
SCALE: AS NOTED

DRAWN BY: S. PAREDES

JOB NO. HLP2022-001

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PLAN VIEW

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description	Filename
11	A	Single	20357	0.850	GARDCO OPF-M-A10-740-T2M-WAL-UNV-BK	Fixture_A_OPF-M-A10-740-T2M.ies	111.5
10	B	Single	4188	0.850	DAYBRITE LBx40L830-UNV-UD	Fixture_B_lb40l840-uv-ud.ies	30.5
32	C	Single	3522	0.850	GARDCO GWM-A07-830-T2M-UNV-BK	Fixture_C_gwm-a07-830-t2m.ies	23
5	D	Single	43064	0.850	GARDCO PFF-138L-700-WW-G2-YK-A33-UNV-BK	Fixture_D_pff-138l-700-ww-g2-a33.ies	289.3281
3	F	Single	5800	0.850	GARDCO OPF-S-A01-830-T2M-AR1-UNV-NONE-NONE-BK	OPF-S-A01-830-T2M.ies	38.912

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts
PCCD PARKING LOT A	ILLUMINANCE	Fc	2.9	12.0	0.3	9.6	40.0	129
PCCD PARKING LOT B	ILLUMINANCE	Fc	2.5	13.1	0.1	25.4	131.0	388

SCALE: 1" = 30'

Note: Unless otherwise specified - the lamp lumen depreciation (LLD) for legacy sources used in these calculations is based on published mean lumen ratings by major lamp manufacturers; 0.80 LLD for pulse start metal halide; 0.90 LLD for high pressure sodium; 0.95 LLD for linear T8 and T5 fluorescent; 0.88 LLD for compact fluorescent and induction; 0.88 LLD for Cosmo and Elite lamps; 0.94 LLD for all LED sources. Unless otherwise noted - 0.90 luminaire dirt depreciation (LDD) is commonly applied. In cases where appropriate - ballast factor (BF) is applied. Additional user defined factors (UDF) may be applied if necessary to represent luminaire performance to a higher degree of accuracy. Total light loss factor (LLF) is the product of all multiplied loss factors.

**LIGHTING PLAN - PHOTOMETRIC ANALYSIS - LAYOUT VERIFICATION**  
(ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT FINISHED GRADE, U.O.N.)

PRELIMINARY - NOT FOR CONSTRUCTION  
NOT FOR QUOTING PURPOSES

**Associated Lighting Representatives, Inc.**  
17777 Via Arroyo  
Suite 100  
San Diego, CA 92128  
Tel: 619-594-8888  
Fax: 619-594-8889

**Lighting Analysis**  
10288 W CENTENNIAL ROAD, SUITE 202, LITTLETON, CO 80120

REPORT FOR:

VECTOR ENGINEERING & CONSULTING SERVICES  
TIM HALEY  
ASSOCIATED LIGHTING REPRESENTATIVES, INC.

PROJECT OWNER:

DEPARTMENT OF GENERAL SERVICES - SITE  
501 5TH AVE., OAKLAND, CA 94606

DRAWING NO. / SHEET:

22238HAL-01 DWG/032  
1 OF 1

DATE:

09/08/2023

SCALE:

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DRAWN BY:

S. PAREDES

JOB NO.:

HLP2022-001

SHEET NO.:

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PROJECT TITLE:

DEPARTMENT OF GENERAL SERVICES - SITE  
501 5TH AVE., OAKLAND, CA 94606

DRAWING TITLE:

PERALTA COMMUNITY COLLEGE DISTRICT  
333 E. 8TH ST., OAKLAND, CA 94606

DATE:

02/27/2023

SCALE:

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PROJECT TITLE:

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501 5TH AVE., OAKLAND, CA 94606

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333 E. 8TH ST., OAKLAND, CA 94606

DATE:

02/27/2023

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JOB NO.:

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REV.

PROFESSIONAL STAMP(S):  
REGISTERED PROFESSIONAL ENGINEER  
SHERY V. KOPEL  
#2041  
EXPIRES 09/30/25  
ELECTRICAL  
STATE OF CALIFORNIA

REVISION/ISSUE DESCRIPTION  
DATE  
CHK BY

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PROJECT TITLE:  
**DEPARTMENT OF GENERAL SERVICES**  
501 5TH AVE., OAKLAND, CA 94606

PROJECT OWNER:  
**PERALTA COMMUNITY COLLEGE DISTRICT**  
333 E. 8TH ST., OAKLAND, CA 94606

DRAWING TITLE:  
**GENERAL SITE LIGHTING PHOTOMETRICS**

DATE: 02/27/2023

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DRAWN BY: S. PAREDES

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ASSOCIATED LIGHTING REPRESENTATIVES, INC.  
17777 Via Arroyo, Suite 100, San Diego, CA 92128  
Tel: 619-594-8888, Fax: 619-594-8889

Lighting Analysis  
10288 W CENTENNIAL ROAD, SUITE 202, LITTLETON, CO 80120

VECTOR ENGINEERING & CONSULTING SERVICES  
TIM HALEY  
ASSOCIATED LIGHTING REPRESENTATIVES, INC.

DEPARTMENT OF GENERAL SERVICES - SITE  
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PERALTA COMMUNITY COLLEGE DISTRICT  
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DATE: 02/27/2023

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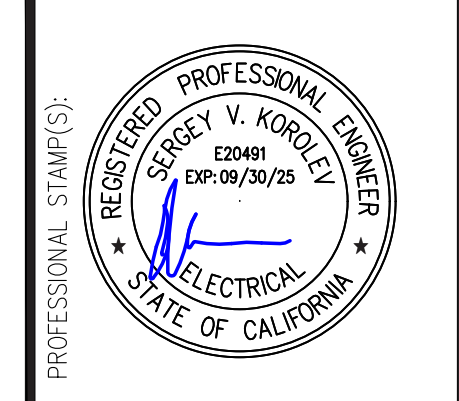


**PLACEHOLDER - PANEL SCHEDULES SHALL  
BE INCLUDED W/ AS-BUILTS**

**PANELS GENERAL NOTES**

- ONCE CKT. TRACE IS COMPLETE FOR (E) EXTERIOR LIGHTING BRANCH CIRCUIT, REMOVE (E) PNL. DEAD FRONT AND VERIFY SCHEDULE. REPORT FINDINGS TO EOR THROUGH SUBMITTAL, (E) PANEL SCHEDULES SHALL BE INCLUDED AS PART OF AS-BUILT DRAWINGS.
- CONTRACTOR SHALL PROVIDE (N) TYPED PANEL SCHEDULE FOR EACH (N) OR (E) ELECTRICAL PANEL, PLACE IN CLEAR PLASTIC SLEEVE AND ATTACH TO INNER SURFACE OF PANEL DOOR.

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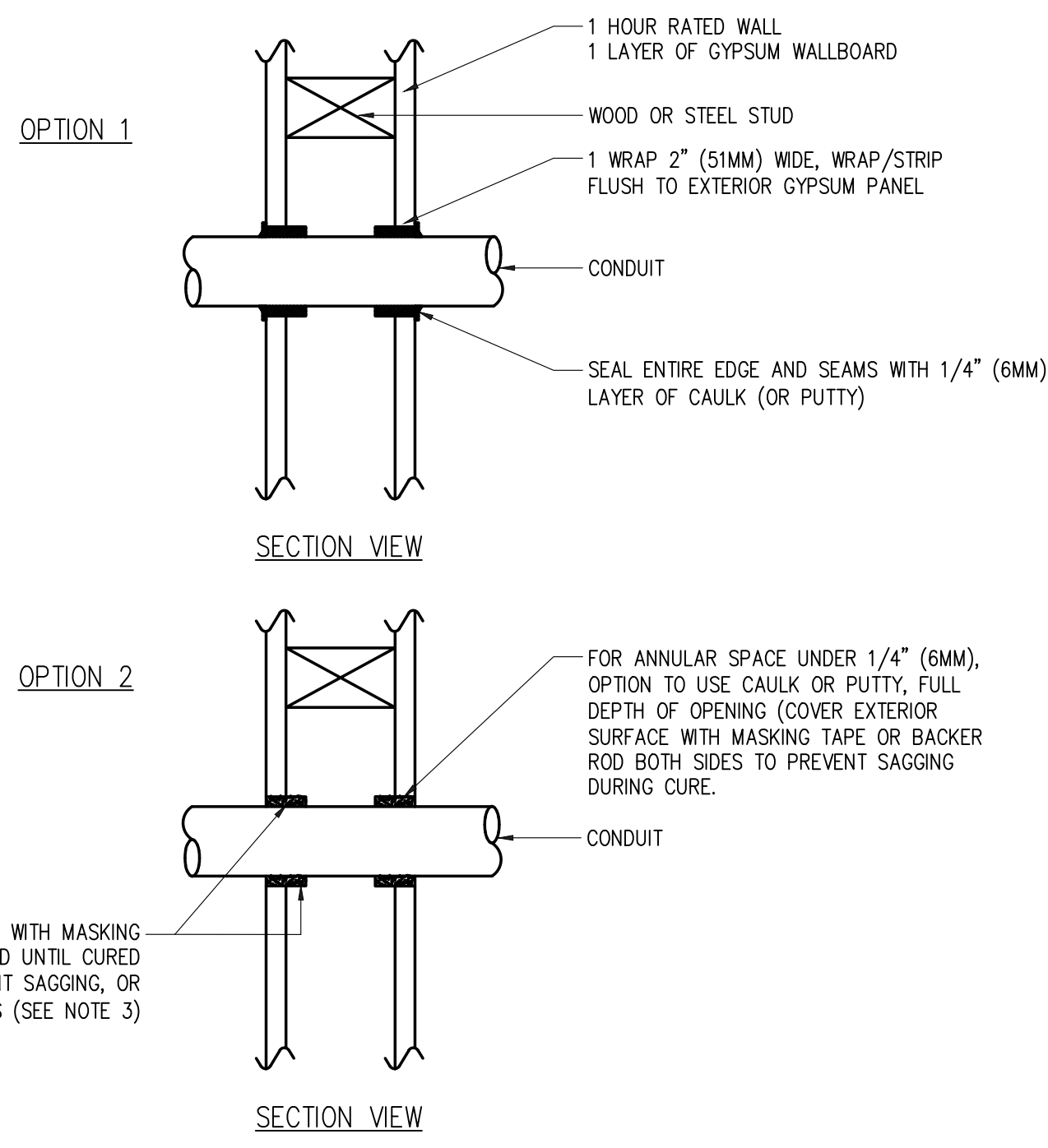


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PROJECT TITLE: <b>DEPARTMENT OF GENERAL SERVICES</b> 501 5TH AVE., OAKLAND, CA 94606	PROJECT OWNER: <b>PERALTA COMMUNITY COLLEGE DISTRICT</b> 333 E. 8TH ST., OAKLAND, CA 94606
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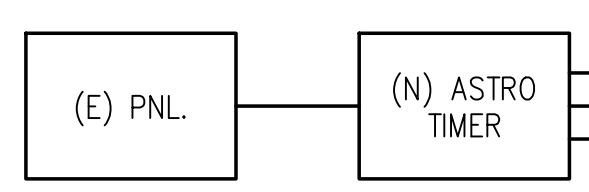
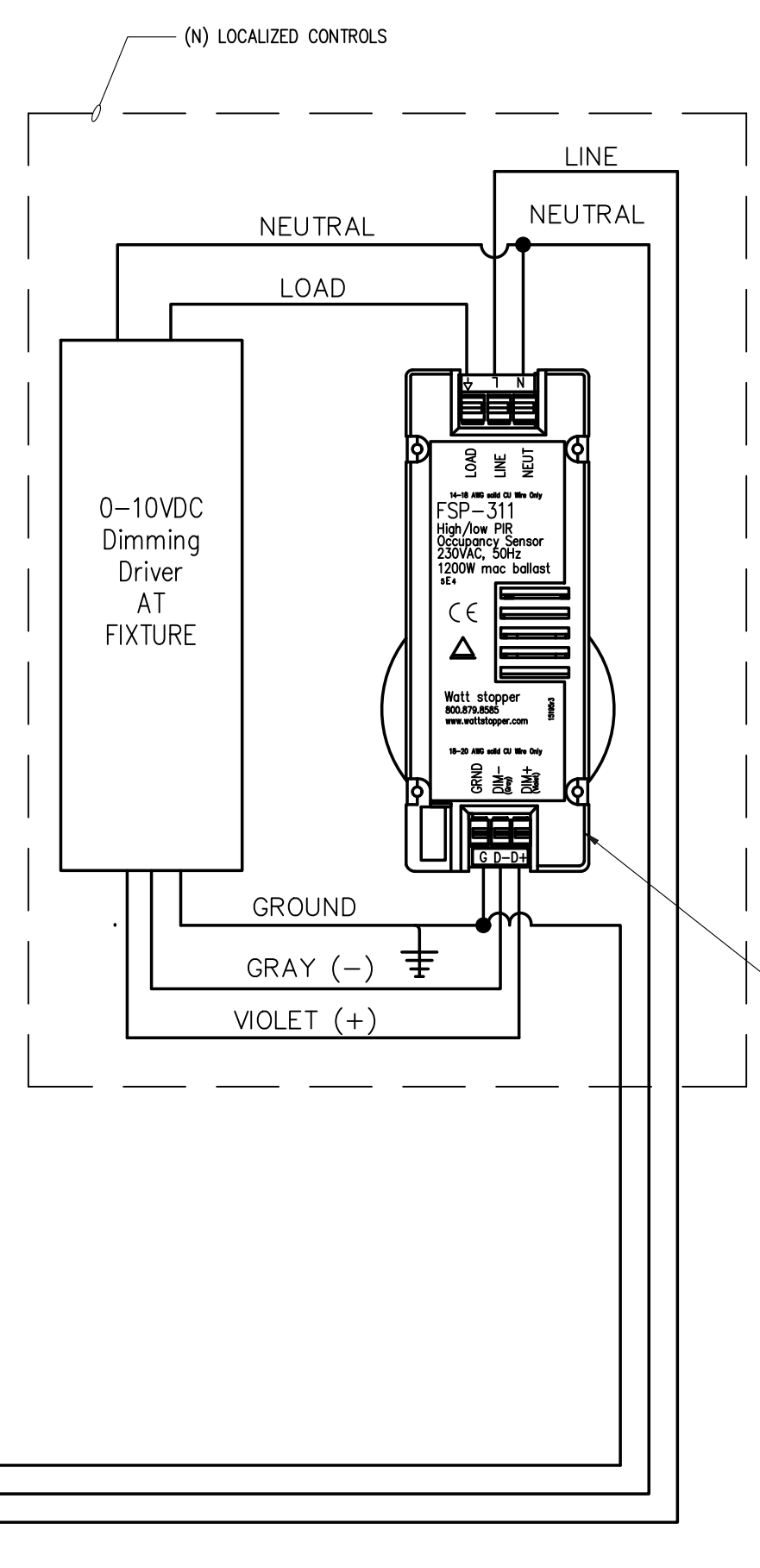


**1** FIXTURE "A" MOUNTING, SECTION (TYP.) SCALE : N.T.S.

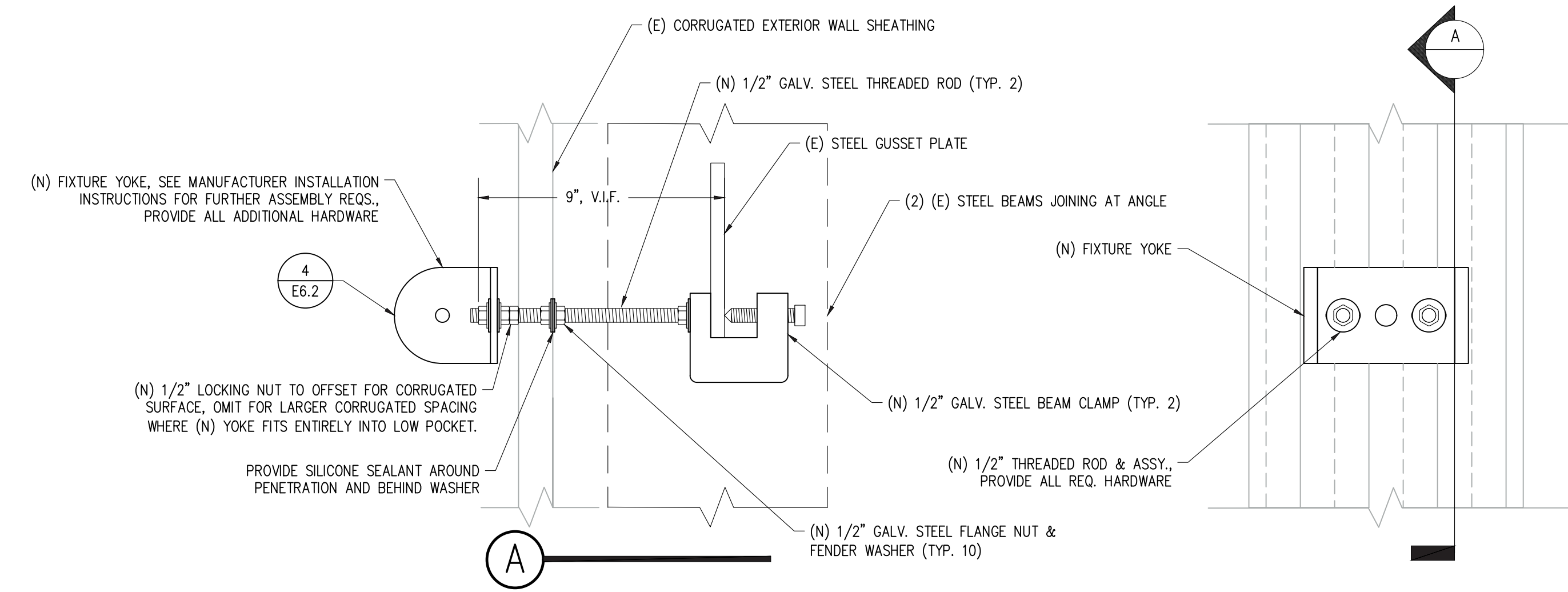
**GENERAL NOTES FOR SINGLE CONDUIT PENETRATION OF 1 HOUR FIRE RATED GYPSUM WALLBOARD WALL:**

1. INSTALL FIRESTOP ON BOTH SIDES OF WALL.
2. RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.
3. OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:
  - A. INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN OPENING.
  - B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.

**3** SINGLE COND. 1-HR FIRE RATED WALL PEN. (TYP.) SCALE : N.T.S.

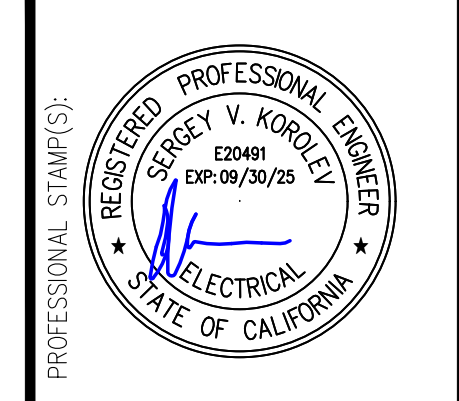


**4** LTG. CTRL. (TYP.) SCALE : N.T.S.



**2** FIXTURE "D" MTG. AT FIELD BUTLER BLDG. (TYP.) SCALE : N.T.S.

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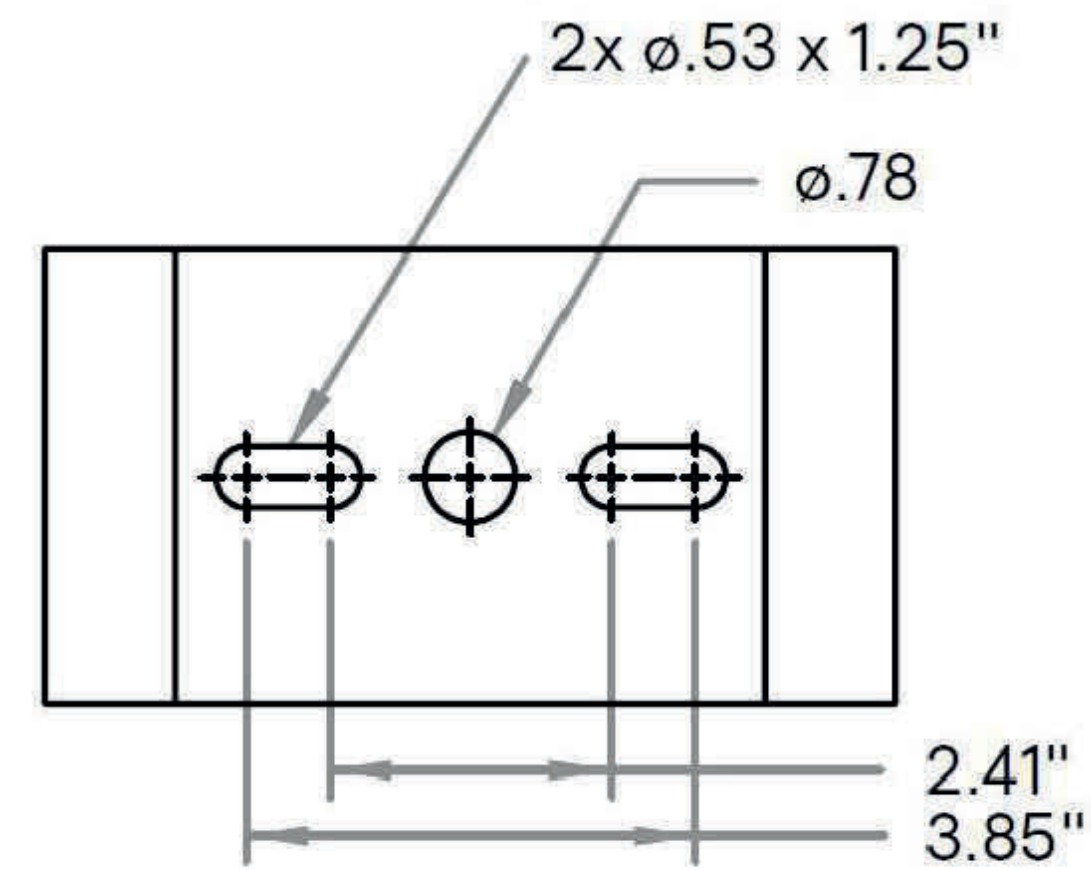


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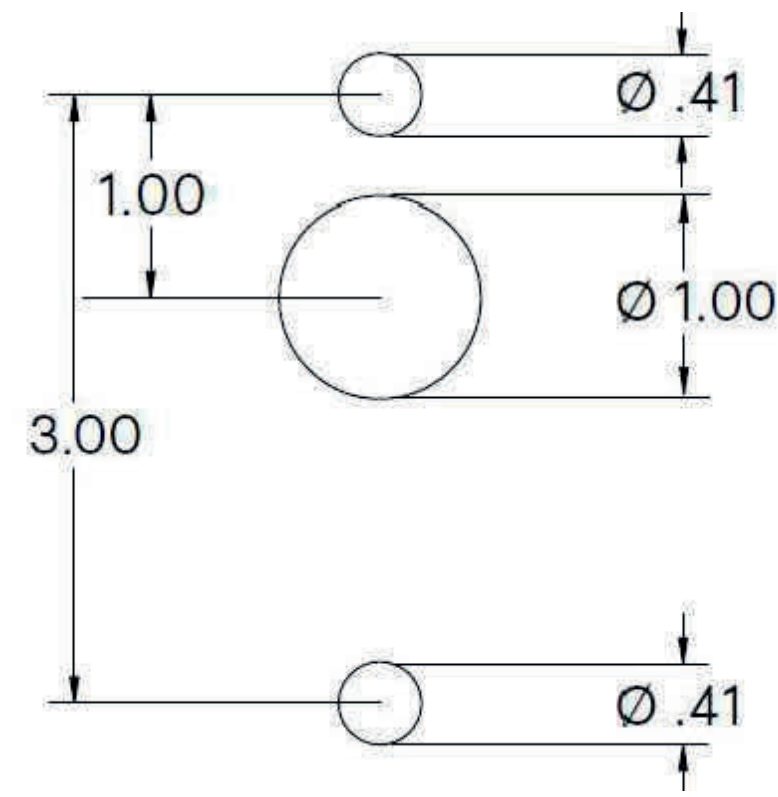
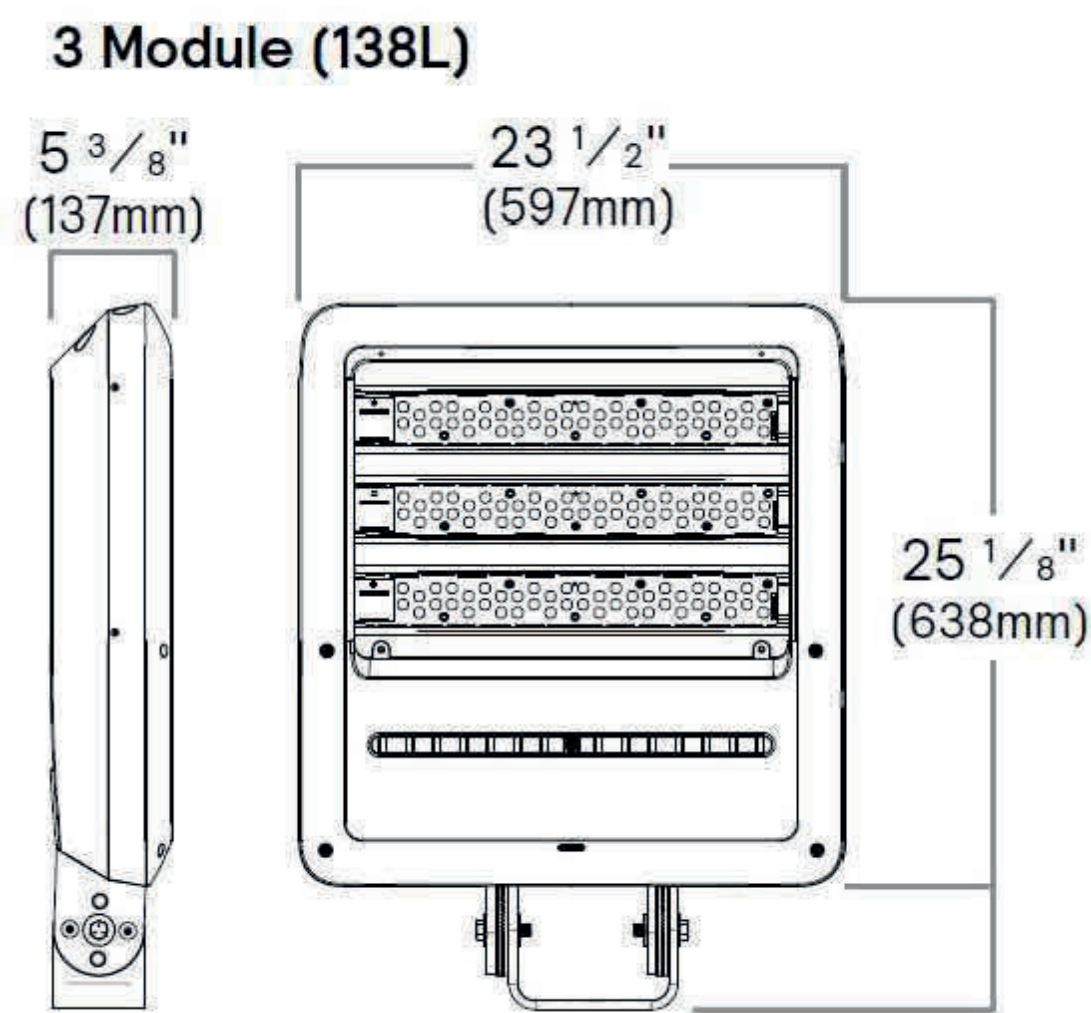
PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
 501 5TH AVE., OAKLAND, CA 94606  
 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
 333 E. 8TH ST., OAKLAND, CA 94606  
 DRAWING TITLE: ELECTRICAL DETAILS

DATE: 02/27/2023  
 SCALE: AS NOTED  
 DRAWN BY: S. PAREDES  
 JOB NO. HLP2022-001  
 SHEET NO. REV.

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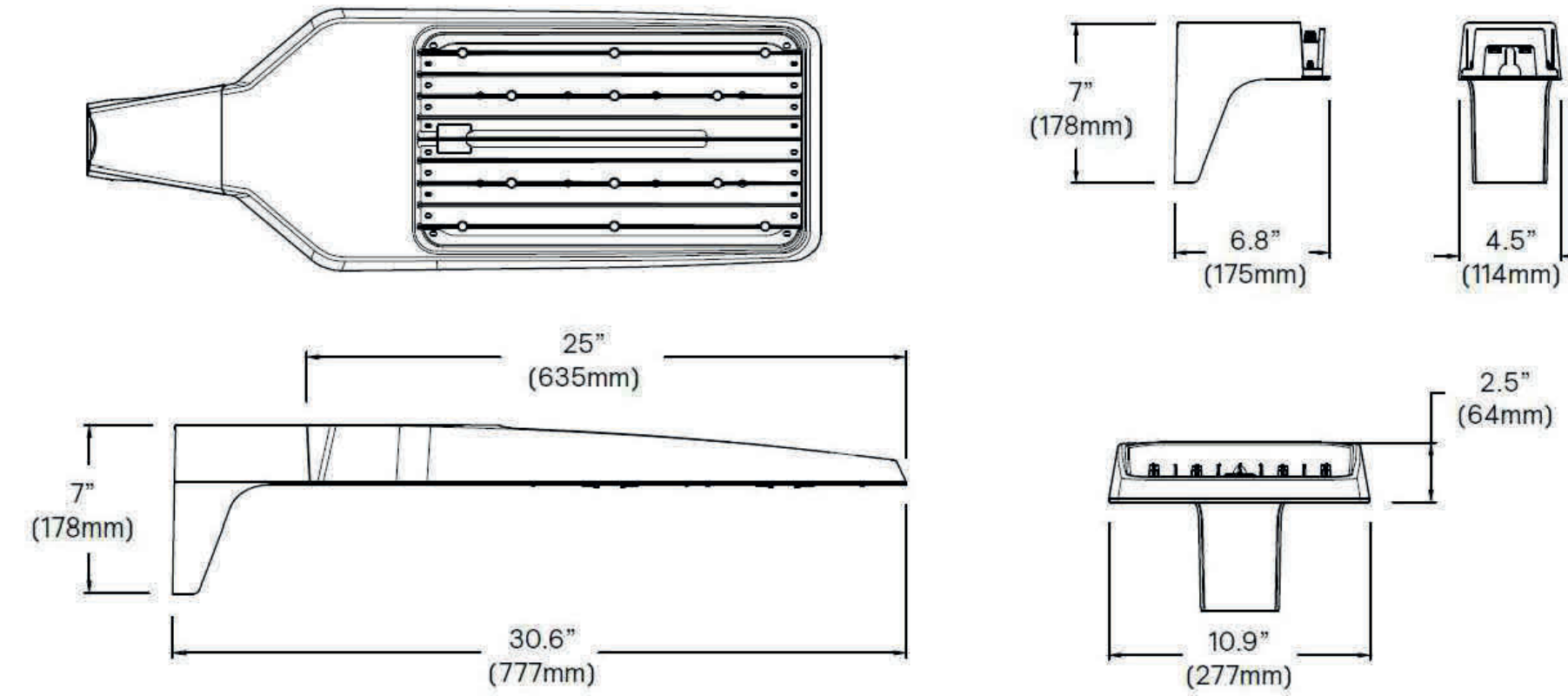


Mounting Hole Pattern



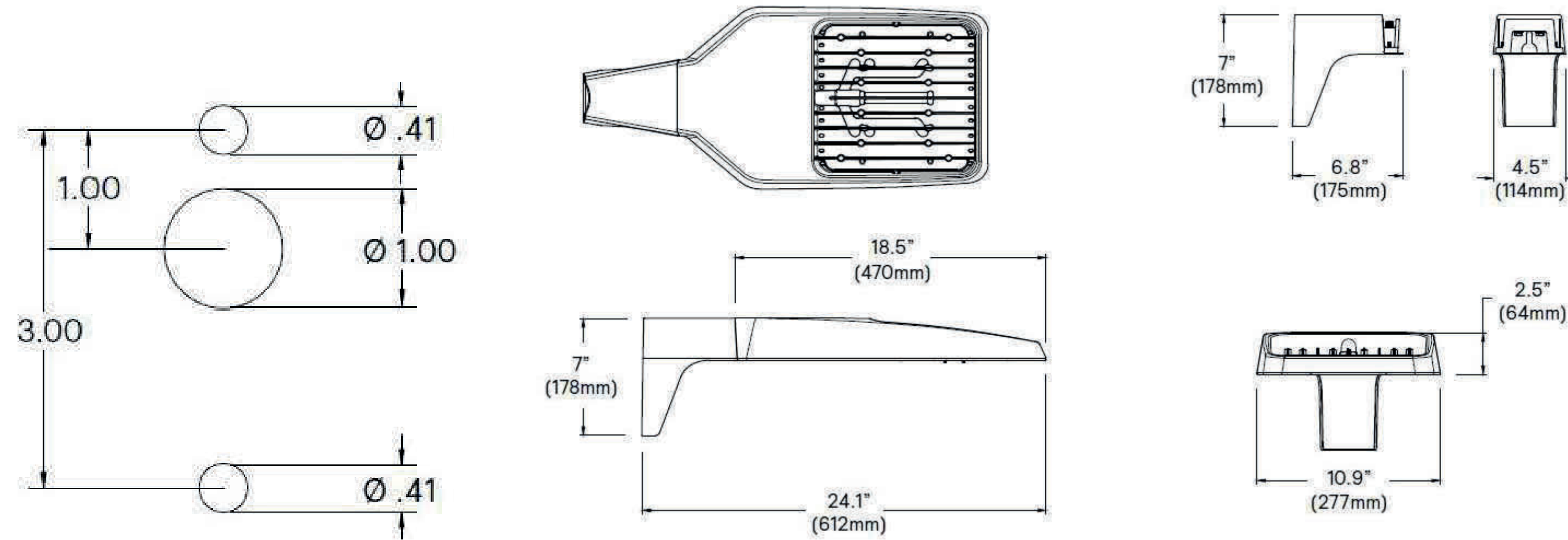
1 FIXT. "A" DIMS AND HOLE PATTERN (TYP.)

SCALE : N.T.S.



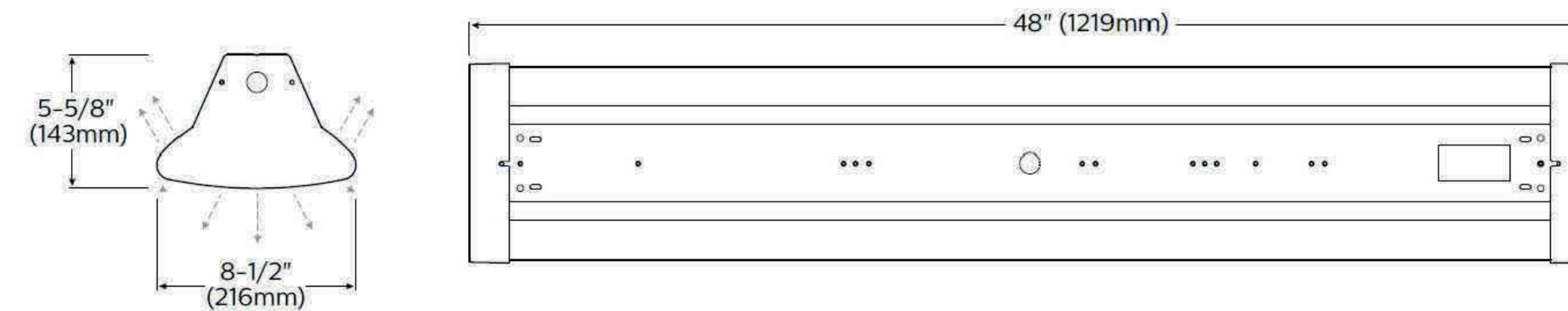
4 FIXT. "D" DIMS AND YOKE (TYP.)

SCALE : N.T.S.



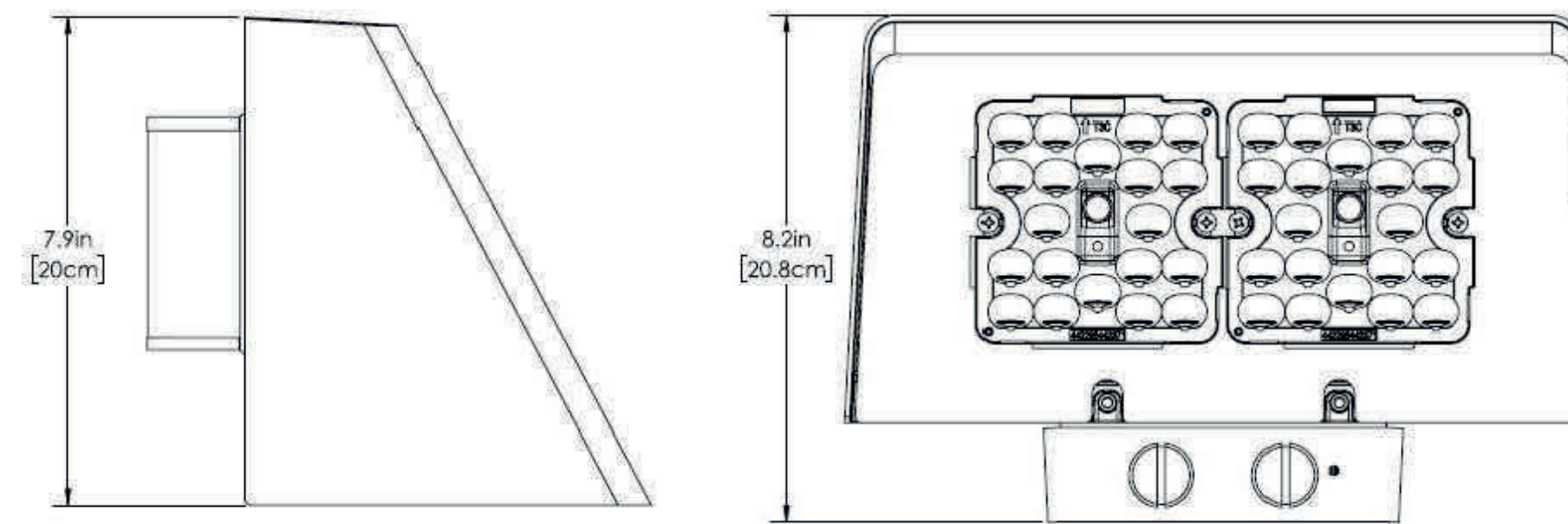
5 FIXT. "F" DIMS AND HOLE PATTERN (TYP.)

SCALE : N.T.S.



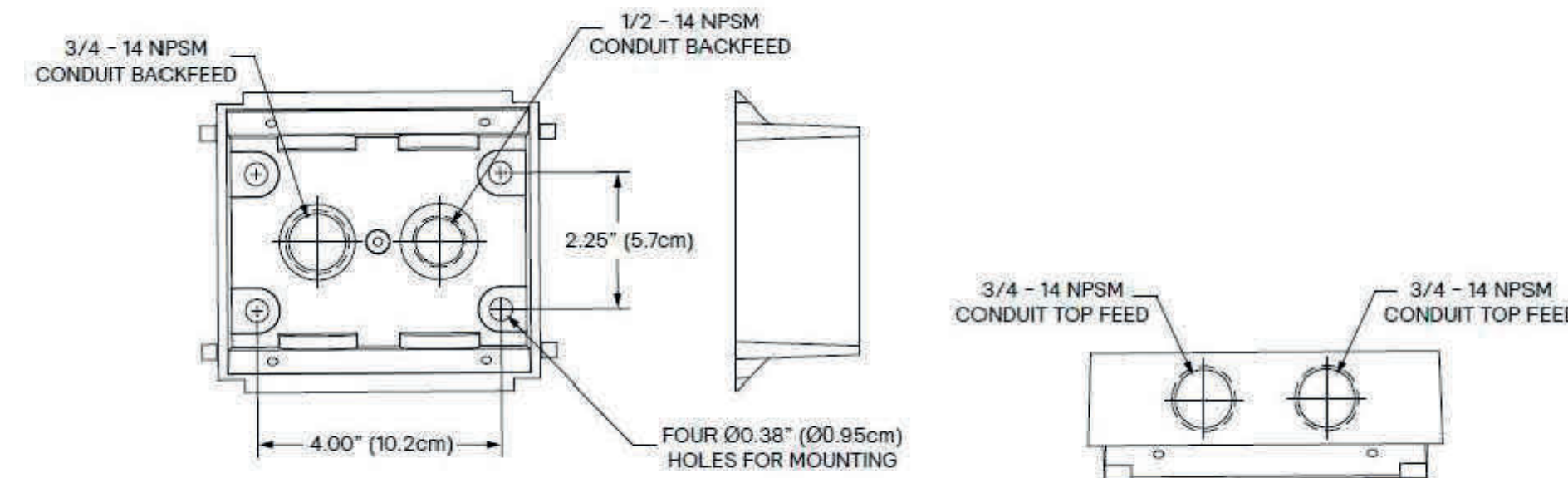
2 FIXT. "B" DIMS (TYP.)

SCALE : N.T.S.



3 FIXT. "C" DIMS AND BACKBOX (TYP.)

SCALE : N.T.S.



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 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
 501 5TH AVE., OAKLAND, CA 94606  
 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
 333 E. 8TH ST., OAKLAND, CA 94606  
 DRAWING TITLE: ELECTRICAL DETAILS

DATE: 02/27/2023  
 SCALE: AS NOTED  
 DRAWN BY: S. PAREDES  
 JOB NO. HLP2022-001  
 SHEET NO. REV.

**E6.2** 0

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ANSI D (22.00 X 34.00 INCHES)

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 3 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included).

Table with 10 columns: 01 Name or Item Tag, 02 Complete Luminaire Description, 03 Watts per luminaire, 04 How is Wattage determined, 05 Total Number Luminaires, 06 Luminaire Status, 07 Excluded per 140.7(a) / 170.2(e)6A, 08 Design Watts, 09 Cutoff Req. > 6,200 initial lumen output, 10 Field Inspector. Includes rows for GARDCO OPF and GARDCO OPF POLE.

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.
\*\* FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 2 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Table with 10 columns: 01 General Hardship Allowance, 02 Per Application, 03 Sales Frontage, 04 Ornamental, 05 Per Specific Area, 06 Existing Power Allowance, 07 Total Allowed (Watts), 08 Total Actual (Watts), 09 Compliance Results. Includes calculations for 1,480.02 + 228 = 3,060.02 Watts.

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 1 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

A. GENERAL INFORMATION

Table with 4 columns: 01 Project Location (city), 02 Climate Zone, 03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ), 04 Total Illuminated Hardship Area (ft²).

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

Table with 5 columns: 01 New Lighting System, 02 Must Comply with Allowances from 140.7 / 170.2(e)6, 03 Altered Lighting System, 04 Is your alteration increasing the connected lighting load (Watts)?, 05 Yes/No.

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

\* FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 6 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardship Allowance is per Table 140.7-A/ Table 170.2-8 while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-5. Indicate which allowances are being used to expand sections for user input.

Table with 10 columns: 01 General Hardship Allowance, 02 Per Application, 03 Sales Frontage, 04 Ornamental, 05 Per Specific Area. Includes calculated General Hardship Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 5 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Table with 5 columns: 01 Area Description, 02 Shut-Off, 03 Auto-Schedule, 04 Motion Sensor, 05 Field Inspector. Includes rows for Hardship Area around PCCD Main Bldg. "A" and "F".

\* FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
\* Authority Having Jurisdiction may ask for cut sheets or other documentation to confirm compliance of light sources.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 4 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Table 24, Part 11, Section 5.106.8.

Table with 12 columns: 01 Name or Item Tag, 02 Complete Luminaire Description, 03 Backlight Rating, 04 Max Allowable Backlight Rating, 05 Backlight Rating Per Design, 06 Lighting type, 07 Uplight Rating, 08 Max Allowable Uplight Rating, 09 Mounting Height, 10 Max Allowable Glare Rating, 11 Glare Rating Per Design, 12 Field Inspector. Includes rows for GARDCO OPF and GARDCO OPF POLE.

\* FOOTNOTES: Mounting Height is labeled MH in this table.
\* Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b) / 160.5(c)
\* BUG ratings with a lower number than the "Max Allowable" are compliant. Ex: If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: DGS - PCCD Main Bldg. Report Page: (Page 9 of 10)
Date Prepared: 2023-09-13T19:19:41-04:00

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B / Table 170.2-5. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

Table with 10 columns: 01 Area Description, 02 Specific Area Type per Table 140.7-B, 03 CALCULATED ALLOWANCE (Watts), 04 Specific Area (ft²), 05 Allowed Density (W/ft²), 06 Extra Allowance (Watts), 07 Luminaire Name or Item Tag, 08 Watts per Luminaire, 09 # of Luminaires, 10 Design Watts. Includes row for Facades PCCD Main Bldg.

\* FOOTNOTES: See Table 140.7-B / Table 170.2-5 for rules for calculating the specific areas (ft²) for these additional lighting allowances.
For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Table with 1 column: Form/Title. Includes NRCC-LTO-E - Must be submitted for all buildings.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-5.

Table with 10 columns: 01 Area Description, 02 Application per Table 140.7-B, 03 CALCULATED ALLOWANCE (Watts), 04 # of Locations, 05 Allowance per Location, 06 Extra Allowance (Watts), 07 Luminaire Name or Item Tag, 08 Watts per Luminaire, 09 # of Luminaires, 10 Design Watts. Includes row for Entrances PCCD Main Bldg.

\* FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B / Table 170.2-5.
For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

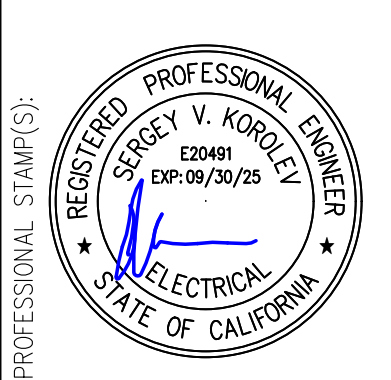
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

Table with 4 columns: PERMIT SET, REVISIONS DESCRIPTION, REV, DATE. Includes revision 0 on 09/15/23.



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PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES
PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT
DRAWING TITLE: PCCD MAIN BLDG. NRCC-LTO-01E
DATE: 02/27/2023
SCALE: AS NOTED
DRAWN BY: S. PAREDES
JOB NO. HLP2022-001
SHEET NO. REV.
E7.1 0

ANSI D (22.00 X 34.00 INCHES)

STATE OF CALIFORNIA  
**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION  
**CERTIFICATE OF COMPLIANCE** NRCC-LTO-01E  
 Project Name: DGS - PCCD Main Bldg. Report Page: (Page 10 of 10)  
 Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:19:41-04:00

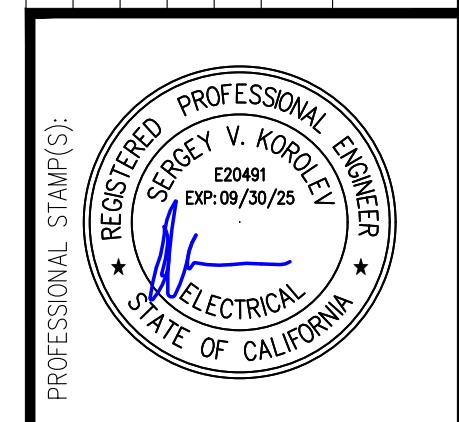
**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Sergey Korolev  
 Company: Vektor Engineering and Consulting Services, Inc. Signature Date: 9/13/2023  
 Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583  
 Phone: (925) 698-8067

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. 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).  
 3. 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.  
 4. 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: Sergey Korolev  
 Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023  
 Address: 2603 Camino Ramon, Suite 417 License: CA E20491  
 City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003  
 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:19:45

REV.	PERMIT SET	REVISION/ISSUE DESCRIPTION	DATE	CHK BY
0	PERMIT SET		09/15/23	SVK



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 2603 Camino Ramon, Suite 417  
 San Ramon, CA 94583  
 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
 501 5TH AVE., OAKLAND, CA 94606  
 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
 333 E. 8TH ST., OAKLAND, CA 94606  
 DRAWING TITLE: PCCD MAIN BLDG. NRCC-LTO-01E

DATE: 02/27/2023  
 SCALE: AS NOTED  
 DRAWN BY: S. PAREDES  
 JOB NO. HLP2022-001  
 SHEET NO. REV. E7.2 0

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7/170.2(e) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designated Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How is Wattage determined	Total Number Luminaires <sup>2</sup>	Luminaire Status <sup>3</sup>	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 Initial lumen output 130.2(b) / 160.5(c)1 <sup>4</sup>	Field Inspector Pass Fail
D	GARDCO PFF <input type="checkbox"/> Linear	289	Mfr. Spec	1	New	<input checked="" type="checkbox"/>	---	NA: Not permitted by H&LS	<input type="checkbox"/> <input type="checkbox"/>
C	GARDCO GWM <input type="checkbox"/> Linear	23	Mfr. Spec	2	New	<input type="checkbox"/>	46	NA: < 6200 lumens	<input type="checkbox"/> <input type="checkbox"/>
Total Design Watts:								46	

\* NOTES: Selections with "\*" require a note in the space below explaining how compliance is achieved.  
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.2(c) / 160.5(b)

<sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

<sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

<sup>4</sup> Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardship Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	Sales Frontage 140.7(d)2 (See Table K)	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
184.75	---	---	---	---	OR ---	184.75	46	COMPLIES
Shielding Compliance (See Table G for Details)								N/A
Controls Compliance (See Table H for Details)								COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardship Allowance is per Table 140.7-A/170.2-A while "Use it or lose it" Allowances are per Table 140.7-B/170.2-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardship Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel							
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)		Total General AWA + LWA (Watts)	
	Illuminated Area (ft <sup>2</sup> )	Allowed Density (W/ft <sup>2</sup> )	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)		
Hardscape Area around Aux. Storage	5312	0.021	111.55	366	0.2	73.2	184.75
Initial Wattage Allowance for Entire Site (Watts):							
Instances of Initial Wattage Allowance (LZ 0 only) <sup>1</sup>							
Total General Hardship Allowance (Watts):						184.75	

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

A. GENERAL INFORMATION

01 Project Location (city)	Oakland	04 Total Illuminated Hardscape Area (ft <sup>2</sup> )	5312
02 Climate Zone	3		
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): <input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland <input type="checkbox"/> LZ-2: Moderate - Urban Clusters <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval <input type="checkbox"/> LZ-1: Low - Rural Areas <input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas			
05 Occupancy Types within Project • Warehouse			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	03	04	05
01 New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	03 Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	05 Calculation Method
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%		Sum Total of Luminaires Being Added or Altered		Calculation Method

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

Area Description	02	03	04	05	
	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Pass	Fail
Hardscape Area around Aux. Storage: "D"	Astronomical Timer	Provided	NA: Industrial Sites Lighting	<input type="checkbox"/>	<input type="checkbox"/>
Hardscape Area around Aux. Storage: "C"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

<sup>2</sup> Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.

<sup>3</sup> Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from ii and iii.

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sergey Korolev	Documentation Author Signature:
Company: Vektor Engineering and Consulting Services, Inc.	Signature Date: 9/13/2023
Address: 2603 Camino Ramon, Suite 417	CEA/HERS Certification Identification (if applicable):
City/State/Zip: San Ramon, CA 94583	Phone: (925) 698-8067

RESPONSIBLE PERSON'S DECLARATION STATEMENT

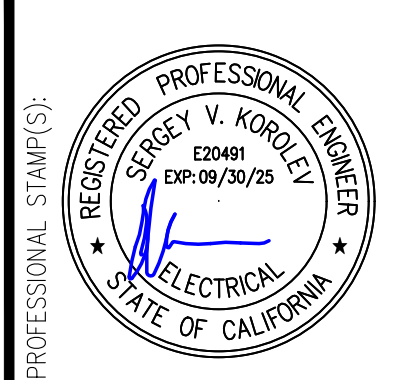
I certify the following under penalty of perjury under the laws of the State of California:

- 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.
- 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: Sergey Korolev	Responsible Designer Signature:
Company: Vektor Engineering and Consulting Services, Inc.	Date Signed: 9/13/2023
Address: 2603 Camino Ramon, Suite 417	License: CA E20491
City/State/Zip: San Ramon, CA 94583	Phone: (925) 698-8067

Generated Date/Time: Documentation Software: Energy Code Ace  
Report Version: 2022.0.000 Compliance ID: 133180-0923-0002  
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23

REV.	PERMIT SET	REVISION/ISSUE DESCRIPTION	DATE	CHK BY
0			09/15/23	SVK



Vektor Engineering & Consulting Services, Inc.  
"Where engineering and technology drive innovation"  
2603 Camino Ramon, Suite 417  
San Ramon, CA 94583  
+1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES  
501 5TH AVE., OAKLAND, CA 94606  
PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT  
333 E. 8TH ST., OAKLAND, CA 94606  
DRAWING TITLE: AUX STORAGE NRCC-LTO-01E

DATE: 02/27/2023  
SCALE: AS NOTED  
DRAWN BY: S. PAREDES  
JOB NO. HLP2022-001  
SHEET NO. REV.

E7.3 0

This document, and the information contained herein, are the sole property of the Prime Consultant, any use or modification of this document, in whole or in part, without the written consent from the Prime Consultant, is strictly prohibited.

PROFESSIONAL STAMP(S):

ANSI D (22.00 X 34.00 INCHES)

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns for Name or Item Tag, Complete Luminaire Description, Watts per luminaire, How is Wattage determined, Total Number of Luminaires, Luminaire Status, Excluded per 140.7(a) / 170.2(e)(6), Design Watts, Cutoff Req. > 6,200 initial lumen output, Field Inspector Pass/Fail.

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. Ex: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b) FOOTNOTES: Authority having jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.2(c) / 160.5(b) For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

C. COMPLIANCE RESULTS Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4b) Compliance Results Table with columns for 01-09 and Total Allowed/Actual Watts.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with readable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

A. GENERAL INFORMATION Table with columns for Project Location (City), Climate Zone, Outdoor Lighting Zone, and Occupancy Types within Project.

B. PROJECT SCOPE Table with columns for My Project Consists of (New Lighting System, Altered Lighting System) and % of Existing Luminaires Being Altered.

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires. FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

J. LIGHTING ALLOWANCE: PER APPLICATION Table with columns for Area Description, Application per Table 140.7-B, Calculated Allowance (Watts), Design Watts, and Additional Allowance (Watts).

FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B/170.2-S. For luminaires indicated in Table A as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) Table with columns for Area Description, General Hardship Allowance, Per Application, Sales Frontage, Ornamental, Per Specific Area, and Total General AWA + LWA (Watts).

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source. Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

H. OUTDOOR LIGHTING CONTROLS Table with columns for Area Description, Shut-Off, Auto-Schedule, Motion Sensor, and Field Inspector Pass/Fail.

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source. Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

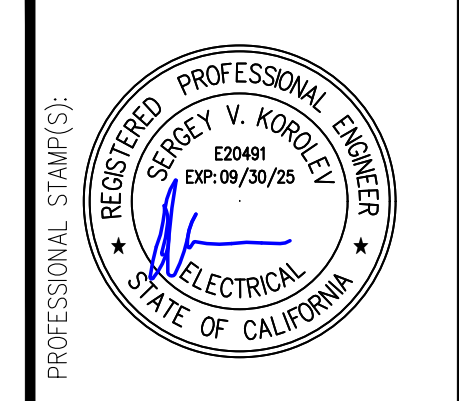
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. 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).

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

REVISIONS TABLE with columns for REV, PERMIT SET, DATE, and CHK BY.



Vektor Engineering & Consulting Services, Inc. "Where engineering and technology drive innovation" 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES 501 5TH AVE., OAKLAND, CA 94606 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT 333 E. 8TH ST., OAKLAND, CA 94606 DRAWING TITLE: CONROY BLDG. NRCC-LTO-01E DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV. E7.4 0

ANSI D (22.00 X 34.00 INCHES)

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns: O1, O2, O3, O4, O5, O6, O7, O8, O9, O10. Includes rows for D (GARDCO PFF) and C (GARDCO GWM).

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b) FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

C. COMPLIANCE RESULTS Table with columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Includes calculations for Total Allowed Lighting Power and Total Actual (Watts).

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

A. GENERAL INFORMATION Table with columns: O1, O2, O3, O4. Includes Project Location (Oakland), Climate Zone (3), and Total Illuminated Hardscape Area (19287).

B. PROJECT SCOPE Table with columns: O1, O2, O3, O4, O5. Includes checkboxes for New Lighting System, Altered Lighting System, and Existing Luminaire Being Altered.

J. LIGHTING ALLOWANCE: PER APPLICATION Table with columns: O1, O2, O3, O4, O5, O6, O7, O8, O9, O10. Includes Area Description, Application per Table 140.7-B, and Calculated Allowance (Watts).

\* FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

L. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) Table with columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Includes Area Description, Illuminated Area, and Area Allowance.

H. OUTDOOR LIGHTING CONTROLS Table with columns: O1, O2, O3, O4, O5. Includes Area Description, Shut-Off, Auto-Schedule, and Motion Sensor.

\* FOOTNOTES: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Responsible Designer's Declaration Statement I certify the following under penalty of perjury under the laws of the State of California:

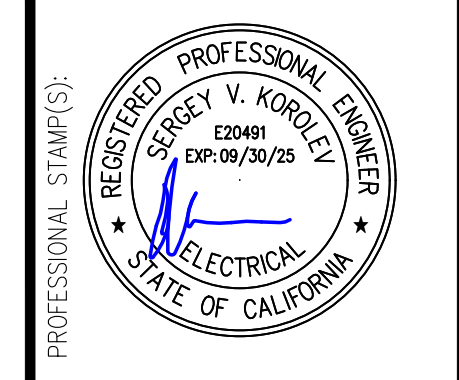
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA Table with columns: O1, O2, O3, O4, O5, O6, O7, O8, O9, O10. Includes Area Description, Specific Area Type, and Calculated Allowance (Watts).

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

Revision table with columns: REV, PERMIT SET, REVISIONS DESCRIPTION, DATE. Includes entries for 0, 1, and 2.



Vektor Engineering & Consulting Services, Inc. Where engineering and technology drive innovation. 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES 501 5TH AVE., OAKLAND, CA 94606 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT 333 E. 8TH ST., OAKLAND, CA 94606 DRAWING TITLE: FIELD BUTLER BLDG. NRCC-LTO-01E

DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV.

E7.5 0

ANSI D (22.00 X 34.00 INCHES)



STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 2 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Rows include Name or Item Tag, Complete Luminaire Description, Modular (Track) Fixture, Small Aperture & Color Change, Watts per luminaire, How is Wattage determined, Total Number of Luminaires, Excluded per 140.6(a)3 / 170.2(e)2C, Design Watts, Field Inspector Pass/Fail.

FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Table with columns: 01, 02, 03. Rows include Mandatory Demand Response 110.12(c), Shut-off controls 130.1(c) / 160.5(b)4C, Field Inspector Pass/Fail, NA < 4,000W subject to multilevel, See Area/Space Level Controls.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 6 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.
Form/Title
NRCC-LTI-E - Must be submitted for all buildings

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 2 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

C. COMPLIANCE RESULTS
Table with columns: Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts), Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts), Compliance Results. Rows include Lighting in conditioned and unconditioned spaces, Total Allowed (Watts), Total Adjusted (Watts), Controls Compliance, Rated Power Reduction Compliance.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 5 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

L. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table with columns: Shed Bay #, Area, Method, Watts, Density, Area Category, PAF.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 8 of 8)
Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-11T17:28:54-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Sergey Korolev
Signature Date: 9/11/2023
Address: 2603 Camino Ramon, Suite 417
City/State/Zip: San Ramon, CA 94583
Phone: (925) 698-8067

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. 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).
3. 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.
4. 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: Sergey Korolev
Signature Date: 9/11/2023
Address: 2603 Camino Ramon, Suite 417
City/State/Zip: San Ramon, CA 94583
Phone: (925) 698-8067

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 1 of 8)
Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-11T17:28:54-04:00

A. GENERAL INFORMATION
Table with columns: 01, 02, 03, 04, 05, 06. Rows include Project Location (city), Climate Zone, Occupancy Types Within Project, Total Conditioned Floor Area (ft²), Total Unconditioned Floor Area (ft²), # of Stories (Habitable Above Grade).

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Table with columns: Scope of Work, Conditioned Spaces, Unconditioned Spaces. Rows include Calculation Method, Area (ft²), Calculation Method, Area (ft²). Includes checkboxes for New Lighting System, New Lighting System - Parking Garage, Altered Lighting System.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 4 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Area Level Controls
Table with columns: 04, 05, 06, 07, 08, 09, 10, 11, 12. Rows include Area Description, Complete Building or Area Category Primary Function Area, Manual Area Controls, Multi-Level Controls, Shut-Off Controls, Primary/Sky It Daylighting, Secondary Daylighting, Interlocked Systems, Field Inspector Pass/Fail.

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table with columns: 01, 02, 03, 04, 05, 06. Rows include Area Description, Complete Building or Area Category Primary Function Area, Allowed Density (W/ft²), Area (ft²), Allowed Wattage (Watts), Additional Allowance / Adjustment Area Category, PAF.

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

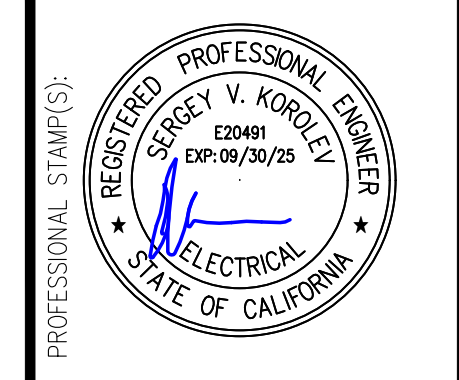
STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Indoor Lighting
CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: DGS - Grounds Shed Report Page: (Page 7 of 8)
Date Prepared: 2023-09-11T17:28:54-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
Systems/Spaces To Be Field Verified: Shed Bay #1; Shed Bay #2; Shed Bay #3; Shed Bay #4; Shed Bay #5

Generated Date/Time: Documentation Software: Energy Code Ace
Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57

Table with columns: PERMIT SET, REV, REVISION/ISSUE DESCRIPTION, DATE, SVK, CHK BY. Includes revision 0 dated 09/15/23.



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"Where engineering and technology drive innovation"
2603 Camino Ramon, Suite 417
San Ramon, CA 94583
+1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES
501 5TH AVE., OAKLAND, CA 94606
PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT
333 E. 8TH ST., OAKLAND, CA 94606
DRAWING TITLE: GROUNDS SHED NRCC-LTI-01E

DATE: 02/27/2023
SCALE: AS NOTED
DRAWN BY: S. PAREDES
JOB NO. HLP2022-001
SHEET NO. REV.

E7.6 0

ANSI D (22.00 X 34.00 INCHES)

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2l, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included).

Table with 10 columns: O1 (Name or Item Tag), O2 (Complete Luminaire Description), O3 (Watts per luminaire), O4 (How is Wattage determined), O5 (Total Number Luminaires), O6 (Luminaire Status), O7 (Excluded per 140.7(a) / 170.2(e)6A), O8 (Design Watts), O9 (Cutoff Req. > 6,200 initial lumen output), O10 (Field Inspector). Row C: GARDCO GWM, Linear, 23, Mfr. Spec, 6, Existing Alteration, 138, NA < 6200 lumens.

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

FOOTNOTES: Authority having jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column O5 instead of number of luminaires.

Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

\* Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Table with 9 columns: O1 (General Hardscape Allowance), O2 (Per Application), O3 (Sales Frontage), O4 (Ornamental), O5 (Per Specific Area), O6 (Existing Power Allowance), O7 (Total Allowed), O8 (Total Actual), O9 (Compliance Results). Row C: 458.37, 38, 0, 0, 0, 0, 496.37, 138, COMPLIES.

Shielding Compliance (See Table G for Details) N/A

Controls Compliance (See Table H for Details) COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

A. GENERAL INFORMATION

Table with 3 columns: O1 (Project Location), O2 (Climate Zone), O3 (Outdoor Lighting Zone), O4 (Total Illuminated Hardscape Area), O5 (Occupancy Types). Row C: Oakland, 3, 10.114, 6313, Office.

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2l / 180.2(b)4Bv for alterations.

My Project Consists of:

Table with 3 columns: O1 (New Lighting System), O2 (Must Comply with Allowances), O3 (% of Existing Luminaires Being Altered), O4 (Sum Total of Luminaires Being Added or Altered), O5 (Calculation Method). Row C: Altered Lighting System, Yes, 6, Calculated Allowance per 140.7 / 170.2(e)6.

FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

Table with 10 columns: O1 (Area Description), O2 (Application per Table 140.7-B), O3 (CALCULATED ALLOWANCE), O4 (Allowance per Location), O5 (Extra Allowance), O6 (Luminaire Name or Item Tag), O7 (Watts per Luminaire), O8 (DESIGN WATTS), O9 (Additional Allowance), O10 (Total Design Watts for this Area). Row C: Entrances Bldg. #1, Building Entrance/Exit, 2, 19, 38, C, 23, 2, 46, 38.

FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B / Table 170.2-S.

For luminaires indicated in Table F as linear, wattage in column O7 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column O8 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A / Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Table with 9 columns: O1 (General Hardscape Allowance), O2 (Per Application), O3 (Sales Frontage), O4 (Ornamental), O5 (Per Specific Area), O6 (Total Allowed), O7 (Total Actual), O8 (Initial Wattage Allowance), O9 (Total General Hardscape Allowance). Row C: 458.37, 38, 0, 0, 0, 496.37, 138, 250, 458.37.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sergey Korolev, Company: Vektor Engineering and Consulting Services, Inc., Address: 2603 Camino Ramon, Suite 417, City/State/Zip: San Ramon, CA 94583

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- 1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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.
4. 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: Sergey Korolev, Company: Vektor Engineering and Consulting Services, Inc., Address: 2603 Camino Ramon, Suite 417, City/State/Zip: San Ramon, CA 94583

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title: NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Table with 4 columns: REV, PERMIT SET, DATE, CHK BY. Row 0: 0, PERMIT SET, 09/15/23, SVK



Vektor Engineering & Consulting Services, Inc. 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES 501 5TH AVE., OAKLAND, CA 94606 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT 333 E. 8TH ST., OAKLAND, CA 94606 DRAWING TITLE: INTERNATIONAL B1 NRCC-LTO-01E

DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV.

E7.7 0

REVISIONS DESCRIPTION: This document, and the information contained herein, are the sole property of the Prime Consultant, any use or modification of this document, in whole or in part, without the written consent from the Prime Consultant is strictly prohibited.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below.

Table with 10 columns: O1 (Name or Item Tag), O2 (Complete Luminaire Description), O3 (Watts per luminaire), O4 (How is Wattage determined), O5 (Total Number Luminaires), O6 (Luminaire Status), O7 (Excluded per 140.7(a) / 170.2(e)6A), O8 (Design Watts), O9 (Cutoff Req. > 6,200 initial lumen output), O10 (Field Inspector). Includes rows for GARDCO GWIM Linear and Total Design Watts: 138.

NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved. FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b).

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Table with 9 columns: O1 (General Hardscape Allowance), O2 (Per Application), O3 (Sales Frontage), O4 (Ornamental), O5 (Per Specific Area), O6 (Existing Power Allowance), O7 (Total Allowed), O8 (Total Actual), O9 (Compliance Results). Includes rows for calculations and Shielding/Controls Compliance.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

A. GENERAL INFORMATION 01 Project Location (city): Oakland 04 Total Illuminated Hardscape Area (ft²): 7431

Table with 4 columns: O1 (Project Location), O2 (Climate Zone), O3 (Outdoor Lighting Zone), O4 (Total Illuminated Hardscape Area). Includes checkboxes for L1-L4 zones and occupancy types.

B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)(2) / 180.2(b)(4) for alterations.

Table with 4 columns: O1 (New Lighting System), O2 (Must Comply with Allowances), O3 (Altered Lighting System), O4 (Is your alteration increasing the connected lighting load (Watts)?), O5 (Yes/No), O6 (Sum Total of Luminaires Being Added or Altered), O7 (Calculation Method).

FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

J. LIGHTING ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

Table with 10 columns: O1 (Area Description), O2 (Application per Table 140.7-B), O3 (Calculated Allowance), O4 (Allowance per Location), O5 (Extra Allowance), O6 (Luminaire Name or Item Tag), O7 (Watts per Luminaire), O8 (Design Watts), O9 (Total Design Watts for this Area), O10 (Additional Allowance).

FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A / Table 170.2-S while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S.

Table with 9 columns: O1 (General Hardscape Allowance), O2 (Illuminated Area), O3 (Area Wattage Allowance), O4 (Area Allowance), O5 (Perimeter Length), O6 (Linear Wattage Allowance), O7 (Allowed Density), O8 (Linear Allowance), O9 (Total General AWA + LWA). Includes rows for Hardscape Area around Bldg. #2 and Total General Hardscape Allowance: 481.85.

H. OUTDOOR LIGHTING CONTROLS This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application.

Table with 5 columns: O1 (Area Description), O2 (Shut-Off), O3 (Auto-Schedule), O4 (Motion Sensor), O5 (Field Inspector). Includes rows for Hardscape Area around Bldg. #2 and Entrances Bldg. #2.

FOOTNOTES: Test has been obsoleted, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Sergey Korolev Signature Date: 9/13/2023 Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury under the laws of the State of California:

- 1. The information provided on this Certificate of Compliance is true and correct. 2. 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).

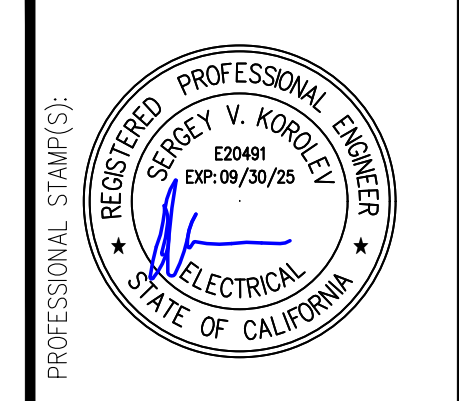
Responsible Designer Name: Sergey Korolev Signature Date: 9/13/2023 Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document.

Form/Title: NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

Table with columns: REV, PERMIT SET, REVISION/ISSUE DESCRIPTION, DATE, CHK BY. Includes revision 0 for PERMIT SET and revision 1 for REVISION/ISSUE DESCRIPTION.



Vektor Engineering & Consulting Services, Inc. 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

DEPARTMENT OF GENERAL SERVICES PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT DRAWING TITLE: INTERNATIONAL B2 NRCC-LTO-01E DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV. E7.8 0

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Includes rows for GARDCO GWM and Linear fixtures.

NOTES: Selections with \* require a note in the space below explaining how compliance is achieved. FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b).

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

C. COMPLIANCE RESULTS Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes calculations for Total Allowed Lighting Power and Compliance Results.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

A. GENERAL INFORMATION Table with columns: 01, 02, 03, 04, 05. Includes Project Location (Oakland), Climate Zone (3), and Total Illuminated Hardscape Area (2510).

B. PROJECT SCOPE Table with columns: 01, 02, 03, 04, 05. Includes New Lighting System, Altered Lighting System, and Existing Luminares Being Altered.

J. LIGHTING ALLOWANCE: PER APPLICATION Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. Includes Area Description, Application per Table 140.7-B, and Calculated Allowance (Watts).

FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Includes General Hardscape Allowance and Linear Allowance (LWA).

Initial Wattage Allowance for Entire Site (Watts): Instances of Initial Wattage Allowance (LZ 0 only): Total General Hardscape Allowance (Watts): 116.11

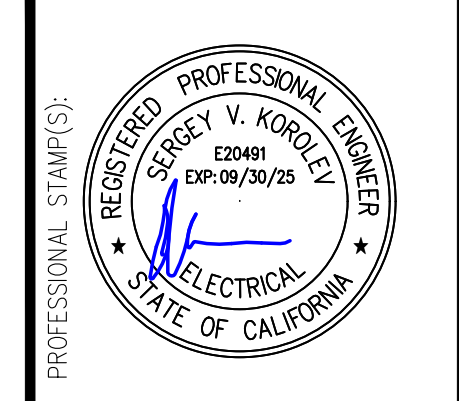
H. OUTDOOR LIGHTING CONTROLS Table with columns: 01, 02, 03, 04, 05. Includes Area Description, Shut-Off, Auto-Schedule, Motion Sensor, and Field Inspector.

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury under the laws of the State of California:

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

REVISIONS TABLE with columns: REV, PERMIT SET, REVISION DESCRIPTION, DATE. Includes revision 0 for PERMIT SET.



Vektor Engineering & Consulting Services, Inc. 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES 501 5TH AVE., OAKLAND, CA 94606 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT 333 E. 8TH ST., OAKLAND, CA 94606 DRAWING TITLE: PORTABLE BLDG. NRCC-LTO-01E DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV. E7.9 0

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns: 01-10, Name or Item Tag, Complete Luminaire Description, Watts per luminaire, How is Wattage determined, Total Number Luminaires, Luminaire Status, Design Watts, Cutoff Req., Field Inspector. Includes rows for GARCO GWIM Linear fixtures.

NOTES: Selections with \* require a note in the space below explaining how compliance is achieved. FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b).

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

C. COMPLIANCE RESULTS Table with columns: 01-09, General Hardscape Allowance, Per Application, Sales Frontage, Ornamental, Per Specific Area, Existing Power Allowance, Total Allowed, Total Actual, Compliance Results. Includes calculations for 140.7/170.2(e)6 and 141.0(b)21/180.2(b)4Bv.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 1 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

A. GENERAL INFORMATION Table with columns: 01-05, Project Location, Climate Zone, Outdoor Lighting Zone, Luminaires, Occupancy Types. Includes project address: 333 E. 8th St., Oakland, CA 94606.

B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)21 / 180.2(b)4Bv for alterations.

My Project Consists of: Table with columns: 01-05, New Lighting System, Altered Lighting System, % of Existing Luminaires Being Altered, Sum Total of Luminaires Being Added or Altered, Calculation Method.

FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 6 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

J. LIGHTING ALLOWANCE: PER APPLICATION Table with columns: 01-10, Area Description, Application per Table 140.7-B, Calculated Allowance, Design Watts, Additional Allowance. Includes Entrances TV & Radio Dept. Bldgs.

FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 5 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) Table with columns: 01-09, Area Description, Area Wattage Allowance, Linear Wattage Allowance, Total General Allowance. Includes calculations for 140.7-A and 170.2-5.

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 4 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

H. OUTDOOR LIGHTING CONTROLS Table with columns: 01-05, Area Description, Shut-Off, Auto-Schedule, Motion Sensor, Field Inspector. Includes Hardscape Area around TV & Radio Dept. Bldgs.

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 8 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Responsible Person's Declaration Statement I certify the following under penalty of perjury under the laws of the State of California:

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

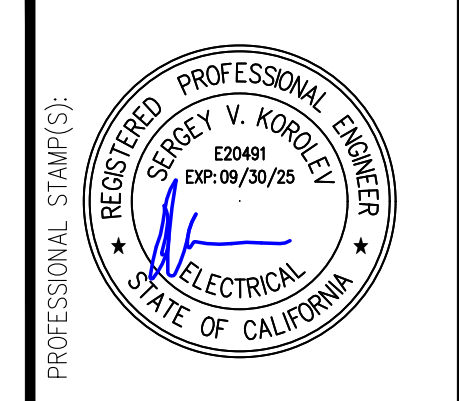
STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 7 of 8) Date Prepared: 2023-09-13T19:33:56-04:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 133119-0923-0004 Schema Version: rev 20220101

Revision table with columns: REV, PERMIT SET, REVISION DESCRIPTION, DATE. Includes revision 0: PERMIT SET.



Vektor Engineering & Consulting Services, Inc. 2603 Camino Ramon, Suite 417 San Ramon, CA 94583 +1 (866) VEKTOR1 (835-8671)

PROJECT TITLE: DEPARTMENT OF GENERAL SERVICES 501 5TH AVE., OAKLAND, CA 94606 PROJECT OWNER: PERALTA COMMUNITY COLLEGE DISTRICT 333 E. 8TH ST., OAKLAND, CA 94606 DRAWING TITLE: TV & RADIO DEPT. BLDG. NRCC-LTO-01E DATE: 02/27/2023 SCALE: AS NOTED DRAWN BY: S. PAREDES JOB NO. HLP2022-001 SHEET NO. REV. E7.10 0

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