

GENERAL NOTES FOR LS-2 AND LS-3 STREET LIGHTING PLANS

1. THIS STREET LIGHTING PLAN EXPIRES TWO YEARS AFTER THE LATEST DATE OF APPROVAL. 2. THE LOCATION OF A STREETLIGHT MAY ONLY BE ADJUSTED IN THE FIELD UP TO TEN (10) FEET, ONLY TO AVOID AN OBSTRUCTION SUCH AS A CATCH BASIN, DRIVEWAY, ETC. ANY DEVIATION EXCEEDING TEN (10) FEET MUST HAVE THE APPROVAL OF THE LOS ANGELES COUNTY PUBLIC WORKS, STREET LIGHTING SECTION. IF SUCH APPROVAL IS NOT OBTAINED, THE STREETLIGHTS PROPOSED BY THIS PLAN WILL NOT BE ACCEPTED BY COUNTY LIGHTING MAINTENANCE

STREET LIGHTING PLANS SHALL BE SUBMITTED FOR ANY CHANGES IN THE MAP, SUCH AS STREET ALIGNMENT, LOT OR PARCEL SIZES, BOUNDARIES, ETC. 4. THE STREETLIGHT POLE SHALL BE CONCRETE AMERON TYPE 1-C1 SERIES OCTAGONAL POLE, COLOR MIX 01 WITH ANTI-GRAFFITI COATING OR AGENCY APPROVED EQUAL. FOR DETAILS, SEE ATTACHMENT I, EXHIBIT L-1. 5. CONCRETE POLES SHALL BE ANCHORED BY 1"X 36"X 4"STEEL ANCHORED BOLTS AND FOUNDATION CAP. FOR DETAILS, SEE ATTACHMENT I, EXHIBIT L-1.

6. LUMINAIRE SHALL BE LIGHT-EMITTING DIODE (LED). 7. LUMINAIRE SHALL BE PROVIDED WITH ANSI C136.41 RECEPTACLE WITH SEVEN CONTACTS, THREE TWIST LOCK CONTACTS, A SHORTING CAP, AND A 0-10V DIMMABLE DRIVER.

8. ALL STREETLIGHT WIRING SHALL BE UNDERGROUND.

9. ON STREETS WHERE THE SIDEWALK AND CURB ARE GREATER THAN SIX AND ONE HALF (6 ½) FEET IN WIDTH, THE MAST ARMS AND BRACKETS SHALL BE PERPENDICULAR TO THE CURB FACE. THE STREETLIGHT ELECTROLIERS SHALL BE PLACED TWENTY-FOUR (24) INCHES FROM THE CURB FACE TO THE CENTER OF THE POLE. USE A FOUR (4) FOOT LONG MAST ARM FOR 45-WATT LED STREETLIGHT AND SIX (6) FOOT LONG MAST ARM FOR ALL OTHER WATTAGE, UNLESS OTHERWISE

SPECIFIED. 10. ON STREETS WHERE THE SIDEWALK AND CURB ARE LESS THAN OR EQUAL TO SIX AND ONE HALF (6 1/2) FEET IN WIDTH, THE STREETLIGHT ELECTROLIERS AND PULL BOXES SHALL BE PLACED OUTSIDE OF THE SIDEWALK AREA UNLESS OTHERWISE SPECIFIED. USE AN EIGHT (8) FOOT LONG MAST ARM FOR ALL WATTAGE, UNLESS

OTHERWISE SPECIFIED. 11. EXISTING STREET LIGHTING SYSTEMS SHALL REMAIN IN OPERATION DURING ANY MODIFICATION. ANY PROPOSED TEMPORARY STREET LIGHTING SYSTEM MUST BE APPROVED BY THE LOS ANGELES COUNTY PUBLIC WORKS.

12. FOR STREETLIGHT RELOCATION, ALL SIGNS ON THE EXISTING STREETLIGHT POLES SHALL BE RELOCATED TO THE NEW STREETLIGHT POLES. ALL SIGN RELOCATION SHALL BE COORDINATED WITH THE INSPECTOR. 13. FIVE (5) FOOT CLEARANCE TO BE MAINTAINED FROM FIRE HYDRANT.

14. FOUR (4) FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE AT COMMERCIAL DRIVEWAY, AND TWO (2) FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY AND CURB RAMPS. 15. ALL WORK SHALL BE IN ACCORDANCE TO THE LATEST EDITION OF THE STANDARD

SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, UNLESS OTHERWISE NOTED ON THE PLAN. 16. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PER THE LOS ANGELES COUNTY

PUBLIC WORKS'STANDARDS, CODES, AND PERMIT REQUIREMENTS, AND TO THE SATISFACTION OF PUBLIC WORKS. 17. PULL BOXES SHALL BE PLACED ADJACENT TO THE PROPOSED STREETLIGHTS WITH

MINIMUM FIVE (5) FEET CLEARANCE FROM THE SIDE OF THE FOUNDATION FOR EACH STREETLIGHT STANDARD TO FACILITATE MAINTENANCE OF THE INDIVIDUAL STREETLIGHT. 18. PULL BOXES LOCATED ADJACENT TO DRIVEWAYS AND ALLEYS SHALL BE INSTALLED

AT A MINIMUM DISTANCE OF FIVE (5) FEET FROM THE TOP OF THE DRIVEWAY "X" OR FIVE (5) FEET FROM THE TRAVEL WAY OF THE ALLEY. PULL BOXES SHALL NOT BE INSTALLED IN ANY PART OF A DRIVEWAY, CURB RAMP AREA OR OTHER TRAVELLED

19. PULL BOXES SHALL BE TYPE 2 WITH POLYMER CONCRETE COVER INSCRIBED "STREET LIGHTING HIGH VOLTAGE". PULL BOXES, COVERS, AND EXTENSION SHALL BE POLYMER CONCRETE MATERIAL, CONCRETE GRAY, SHALL BE ARMORCAST OR AGENCY APPROVED EQUAL

20. STREETLIGHTS SHALL BE ERECTED SO THAT THE BASE DOOR (HANDHOLD COVER) IS FACING THE DIRECTION OF TRAVEL. 21. LS-3 STREETLIGHT FOUNDATION SHALL BE IN ACCORDANCE WITH DETAIL STANDARD

AS SHOWN ON THE PLAN. FOR DETAILS, SEE ATTACHMENT I, EXHIBIT L-3. 22. FOUNDATION CAPS SHALL BE THE SAME COLOR, FINISH, AND MATERIAL AS THE ADJACENT SIDEWALK, AND BE A MINIMUM OF FOUR (4) INCHES THICK. THE FOUR (4) INCHES THICK PCC CAP SHALL BE CONSTRUCTED TO THE BACK OF THE ROADWAY

23. PROPOSED LS-3 STREETLIGHT FOUNDATIONS, PEDESTALS, PULL BOXES AND OTHER ASSOCIATED LS-3 STREETLIGHT SYSTEM APPURTENANCES SHALL BE INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY.

24. CONTRACTOR SHALL LOCATE AND PROTECT SUBSTRUCTURE(S) AND SHALL PROVIDE A MINIMUM TWELVE (12) INCH HORIZONTAL CLEARANCE BETWEEN FOUNDATION AND SUBSTRUCTURES. IN THE EVENT THAT A TWELVE (12) INCH CLEARANCE CANNOT BE ACHIEVED, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR RELOCATION OF SUBSTRUCTURES AT NO COST TO LOS

ANGELES COUNTY PUBLIC WORKS. 25. STREETLIGHTS SHALL BE CONSTRUCTED PER THE LOS ANGELES COUNTY PUBLIC WORKS APPROVED PLAN. STREETLIGHTS NOT CONSTRUCTED ACCORDING TO THE APPROVED PLAN SHALL BE REMOVED AND RELOCATED AT NO COST TO LOS

ANGELES COUNTY PUBLIC WORKS. 26. THE DEVELOPER AND/OR APPLICANT SHALL COORDINATE WITH SCE FOR THE LOCATION OF THE SERVICE PEDESTAL PRIOR TO THE APPROVAL THE STREET LIGHTING PLAN. VOLTAGES FOR OVERHEAD LINES IN THE VICINITY OF THE STREET

LIGHTS MUST BE SHOWN ON THE PLANS. 27. SAFETY CLEARANCE SHALL BE OBTAINED FROM THE AFFECTED UTILITY COMPANY BEFORE DOING ANY WORK IN CLOSE PROXIMITY TO ANY OVERHEAD ELECTRIC LINE. ALL STREETLIGHTS MUST MAINTAIN A 12' MINIMUM CLEARANCE IN ALL DIRECTIONS FROM ANY OVERHEAD HIGH-VOLTAGE (600 VOLTS - 50,000 VOLTS) ELECTRIC POWER LINES.

STREET LIGHTING LAYOUT TRACT MAP NO. 52796

TR. BOUNDARY MAIN LINE CONDUIT → SIZE OF CONDUIT NO. CONDUIT REQ. ■ LENGTH OF CONDUIT RUN STREET LIGHT CONDUIT CIRCUIT NUMBER → P1-5.7 SIZE OF CONDUIT NO. CONDUIT REQ. LENGTH OF CONDUIT RUN RUN NUMBER CALL-OUTS AS FOLLOWS MAIN LINE CONDUIT STREET LIGHT CONDUIT ELECTRICAL DEVICE LEGEND L

20 PROPOSED LED EQUIVALENT FOR (200 WATT) HPSV STREETLIGHTS ON CONCRETE POLES (2700K) ATBM P30 MVOLT R3 4B 27K MP NL P7 JP RFD320421 OR AGENCY APPROVED EQUAL

PROPOSED LED EQUIVALENT FOR (100 WATT) HPSV STREETLIGHTS ON CONCRETE POLES (2700K) ATBX P50 MVOLT R3 27K MP NL P7 JP RFD320419 OR AGENCY APPROVED EQUAL

TYPE OF POLE, SIZE OF LAMP AND POLE NUMBER AS INDICATED.

TYPE 2 UNDERGROUND PULL BOX

ELECTRICAL SERVICE PEDESTAL 120/240. 1Ø, 3W 60 AMPS MAIN

PROPOSED SCE SERVICE POINT

TR. BOUNDARY-

28. IN THE EVENT OF OVERHEAD LINE CONFLICT WITH STREETLIGHTS, THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS WITH SCE TO RAISE THEIR OVERHEAD FACILITIES IN ORDER TO PROVIDE FOR THE REQUIRED CLEARANCES WITH EXISTING AND/OR PROPOSED STREETLIGHTS AT NO COST TO LOS ANGELES COUNTY PUBLIC WORKS.

29. CONTRACTOR SHALL REPAIR AT THEIR COST; THE DAMAGE CAUSED TO ANY EXISTING UNDERGROUND UTILITY DURING THE CONSTRUCTION OF STREETLIGHTS. 30. ALL CONDUITS FROM PULL BOX TO STREETLIGHT SHALL BE ONE AND A HALF (1 1/2) INCHES UL APPROVED PVC SCHEDULE 80, UNLESS OTHERWISE SPECIFIED. 31. ALL CONDUITS FROM PULL BOX TO PULL BOX SHALL BE THREE (3) INCHES UL APPROVED PVC SCHEDULE 80, UNLESS OTHERWISE SPECIFIED.

32. ALL CONDUITS FROM SERVICE PEDESTAL TO PULL BOX SHALL BE THREE (3) INCHES UL APPROVED PVC SCHEDULE 80, UNLESS OTHERWISE SPECIFIED. 33. ALL CONDUITS SHALL BE LAID TO A DEPTH OF NOT LESS THAN THIRTY (30) INCHES BELOW THE GUTTER FLOW LINE, UNLESS OTHERWISE SPECIFIED. FOR DETAILS, SEE ATTACHMENT I, EXHIBIT L-4.

34. ALL SPLICES BELOW GRADE SHALL BE WATERTIGHT, TAPED (VINYL OVER RUBBER) AND SCOTCHKOTED. 35. IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR APPLICANT TO

FURNISH AND CONSTRUCT ALL THE STREETLIGHTS IMPROVEMENTS INCLUDING INSTALLATION OF EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO CONDUCTING ANY UNDERGROUND CONDUIT SYSTEM, PULL BOXES, PULL ROPES, STUB-OUTS, CONDUCTORS, FOUNDATIONS, POLES, MAST ARMS, SERVICE PEDESTALS AND CABINETS, STREETLIGHTS, AND ALL OTHER NECESSARY APPURTENANCES IN ACCORDANCE TO LOS ANGELES COUNTY PUBLIC WORKS

STANDARDS. 36. SCE OR ITS CONTRACTOR WILL INSTALL NEW TRANSFORMER, RISER, AT THE SCE SERVICE POINT, AND PROVIDE SERVICE CONNECTION. ALL COSTS TO BE PAID BY THE DEVELOPER AND/OR APPLICANT. 37. ALL CONDUIT WORK BETWEEN SCE SERVICE POINT AND THE PROPOSED SERVICE

PEDESTAL SHALL CONFORM TO SCE STANDARDS, PUBLISHED IN SCE'S UNDERGROUND STRUCTURES STANDARDS MANUAL (UGS), AVAILABLE AT WWW.SCE.COM AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 86, UNLESS OTHERWISE NOTED ON THE

38. SERVICE PEDESTAL SHALL BE INSTALLED WITH CABINET ACCESS DOOR FACING THE DIRECTION OF TRAVEL. 39. ALL STREETLIGHTS SHOWN ON THIS PLAN SHALL BE ENERGIZED PRIOR TO

ACCEPTANCE OF THE LIGHTING SYSTEM TO A COUNTY LIGHTING MAINTENANCE DISTRICT. THE DEVELOPER AND/OR APPLICANT SHALL ENSURE THAT ALL REQUIRED ELECTRICAL INSPECTIONS ARE COORDINATED WITH SCE AND THE LOS ANGELES COUNTY PUBLIC WORKS'INSPECTOR PRIOR TO COVERING OR ENERGIZING THE LIGHTING SYSTEM. 40. ALL STREETLIGHT IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE

LIGHTING PLANS PRIOR TO THE ACCEPTANCE OF THE STREET LIGHTING SYSTEM TO COUNTY LIGHTING MAINTENANCE DISTRICT. 41. PRIOR TO ACCEPTANCE OF THE WORK, THE DEVELOPER AND/OR APPLICANT SHALL SUBMIT ONE COMPLETE SET OF "AS BUILT" PLANS AND ANY PERTINENT DATA AS REQUIRED BY THE BY ENGINEER SHOWING IN DETAIL ALL CONSTRUCTION CHANGES. 42. THE OPERATION AND MAINTENANCE OF THE STREETLIGHTS ON PRIVATE AND FUTURE ROADWAYS SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER ASSOCIATION / DEVELOPER.

TO LOS ANGELES COUNTY PUBLIC WORKS APPROVED STREET

43. ALL COST FOR FURNISHING AND INSTALLING ELECTRICAL WORK SHOWN ON THE ELECTRICAL PLAN FOR WHICH NO SEPARATE ITEMS ARE INCLUDED IN THE BID SHALL BE INCLUDED IN THE LUMP SUM PRICE IN THE BID FOR "ELECTRICAL

44. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED BY NATIONAL ELECTRICAL CODE (NEC), LOCAL MUNICIPAL CODE AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 45. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A COUNTY APPROVED THIRD PARTY TESTING FACILITY.

46. ALL EQUIPMENT AND RACEWAYS SPECIFIED AS NEW SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. 47. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF

THE EQUIPMENT AND WORK INCLUDED. THE INTENTION OF THE DRAWINGS IS TO INDICATE SIZE, CAPACITY, APPROXIMATE LOCATION AND GENERAL RELATIONSHIP BUT NOT THE EXACT DETAIL OR PHYSICAL PLACEMENT. 48. ALL DISTANCES SHALL BE FIELD-VERIFIED BY CONTRACTOR 49. GENERAL NOTES PERTAIN TO ELECTRICAL WORK DEPICTED ON THIS PLAN

50. DESIGNER TO PROVIDE A SERVICE AGREEMENT LETTER FROM SCE INDICATING THE AVAILABLE FAULT CURRENT AT ALL SERVICE LOCATIONS. THE LETTER MUST BEAR THE PLANNER'S SIGNATURE. 51. CONTRACTOR SHALL CALL DIG ALERT TO VERIFY THE LOCATION OF

ONLY. REFER TO TRAFFIC SIGNAL PLAN FOR OTHER REQUIRED WORK.

EXCAVATION. 52. ALL CONDUCTORS FROM PULLBOX TO STREETLIGHT SHALL BE #10 GAUGE WIRE, UNLESS OTHER WISE SPECIFIED.

53. TWO (2) FOOT CLEARANCE FROM TOP OF CURB RAMPS. 54. A MINIMUM OF TWENTY (20) FOOT CLEARANCE FROM CENTER OF TREE OR A MINIMUM OF FIVE (5) FOOT CLEARANCE FROM THE ULTIMATE TREE CANOPY. 55. ALL EXISTING AND PLANNED TREES TO BE SHOWN ON STREET LIGHTING

56. ALL STREET LIGHTS SHALL HAVE A DECAL INDICATING THE LAMP WATTAGE ON THE LUMINAIRE DOORS. 57. CONDUCTORS FOR EACH STREETLIGHT SHALL BE PROTECTED BY IN-LINE FUSES INSTALLED IN THE POLE BASE OR THE ADJACENT PULL BOX.

INDEX TO PROJECT PLANS

P1

SHEET NUBMER **DESCRIPTION** TITLE SHEET PLAN SHEET PLAN SHEET PANEL SCHEDULES AND DETAILS CIRCUITING DIAGRAMS

SCALE : 1"=200'

ILLUMINATION DESIGN GUIDELINES FOR LS-2 AND LS-3 STREETLIGHTS LED EQUIVALENT FOR (100 WATT) HPSV STREETLIGHTS, THE POLE SPACING IS BASED ON 0.4 FOOTCANDLES, FOR "LOCAL RESIDENTIAL" STREETS. THE LUMINAIRE SHALL HAVE A TWENTY FIVE (25) FOOT MOUNTING HEIGHT, SHALL BE (ANSI-IES) MEDIUM, TYPE II OR TYPE III.

LED EQUIVALENT FOR (200 WATT) HPSV STREETLIGHTS, THE POLE SPACING IS BASED ON 1.4 FOOTCANDLES, FOR

DATE | TM No. 52796 | DWG SHT-01

"MAJOR INTERMEDIATE" STREETS. THE LUMINAIRE SHALL HAVE A THIRTY (30) FOOT MOUNTING HEIGHT, SHALL BE (ANSI-IES) MEDIUM, TYPE II OR TYPE III.

				C	CTANDADDC		
RIOR TO	<u>utility planner con</u>	<u>NTAC</u>	<u>Γ:</u>	0	STANDARDS	TITLE SHEET	
ENANCE LL REQUIRED	CARMEN McNEIL 28460 AVENUE STANFORD		LS-2 NOTE: COUN	TY-OWNED & MAINTAINED STRI	EETLIGHTS	CLMD 1687	STREET LIGHTING PLANS
ANGELES G THE	VALENCIA, CA 91355 661.607.6544	NO.	REVISION	REVISED BY APPR	OVED BY DATE		COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
RDANCE	Carmen.McNeil@sce.com						
LOS ANGELES	COUNTY PUBLIC WORKS						
APPROVA	AL FOR INSTALLATION						
BY	DATE	1					
El Den	3-23-2023						

PROJECT ENGINEER

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SHEET 1 OF 6

└TR. BOUNDARY

McBEAN PARKWAY

P2

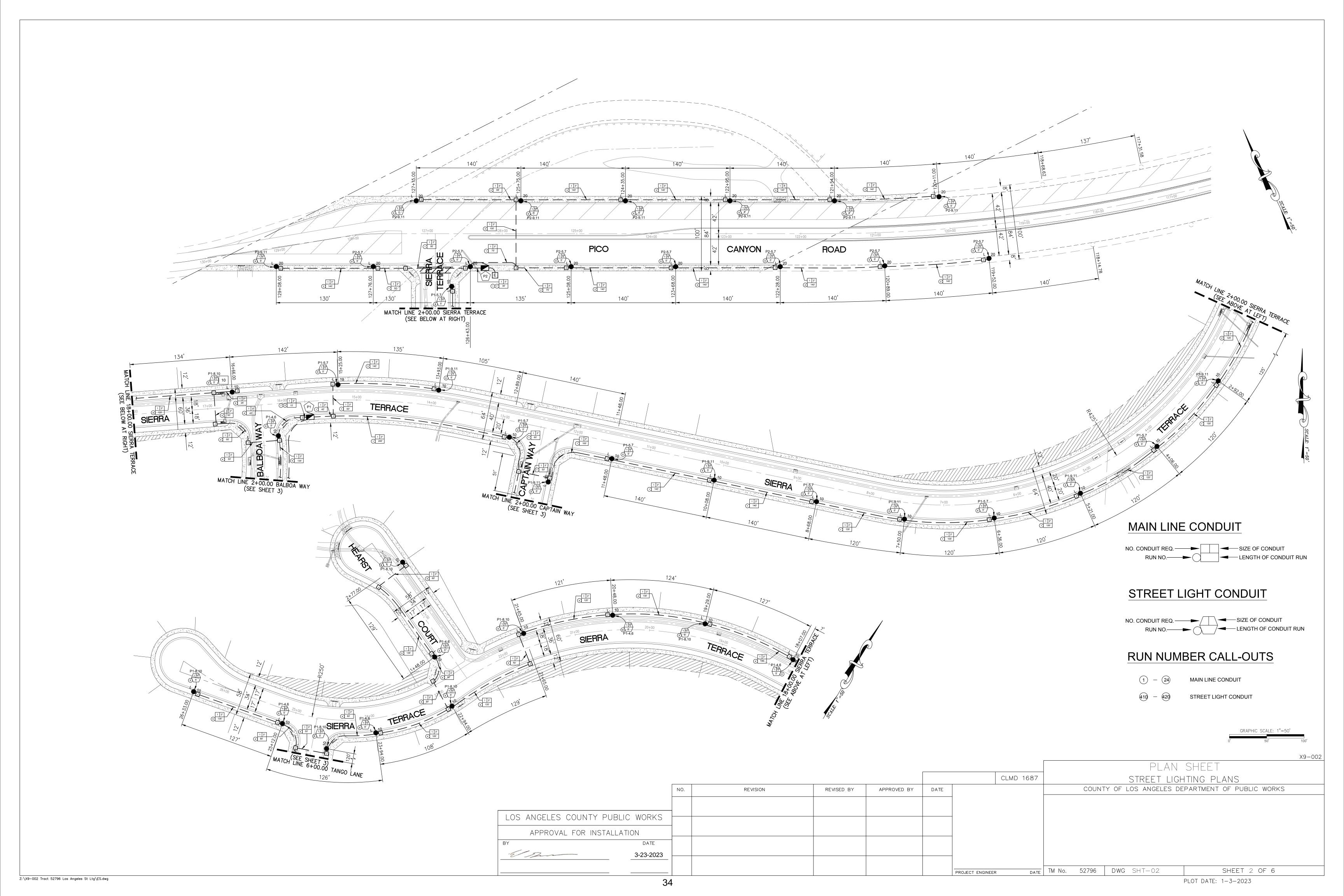
PROJECT

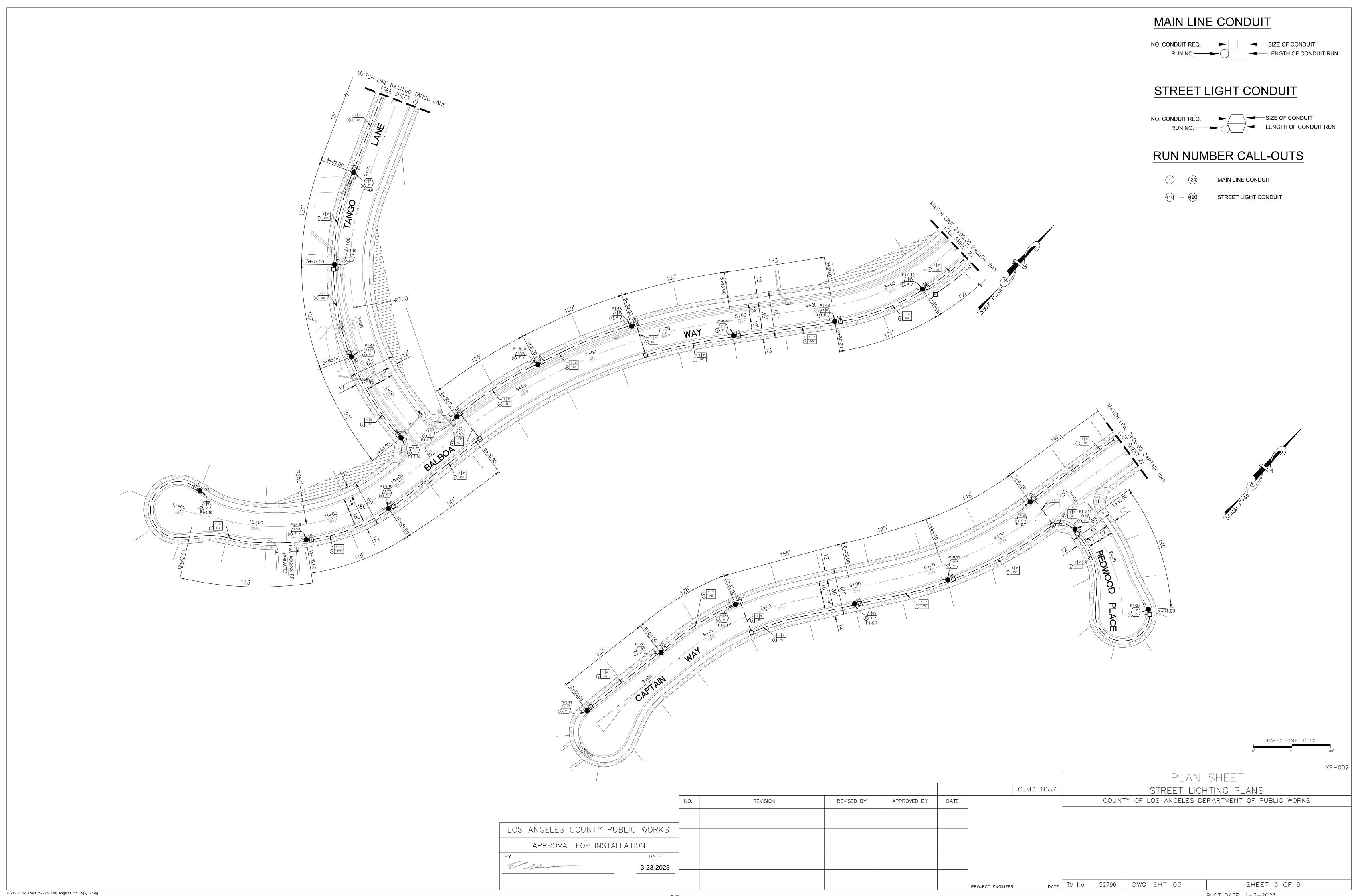
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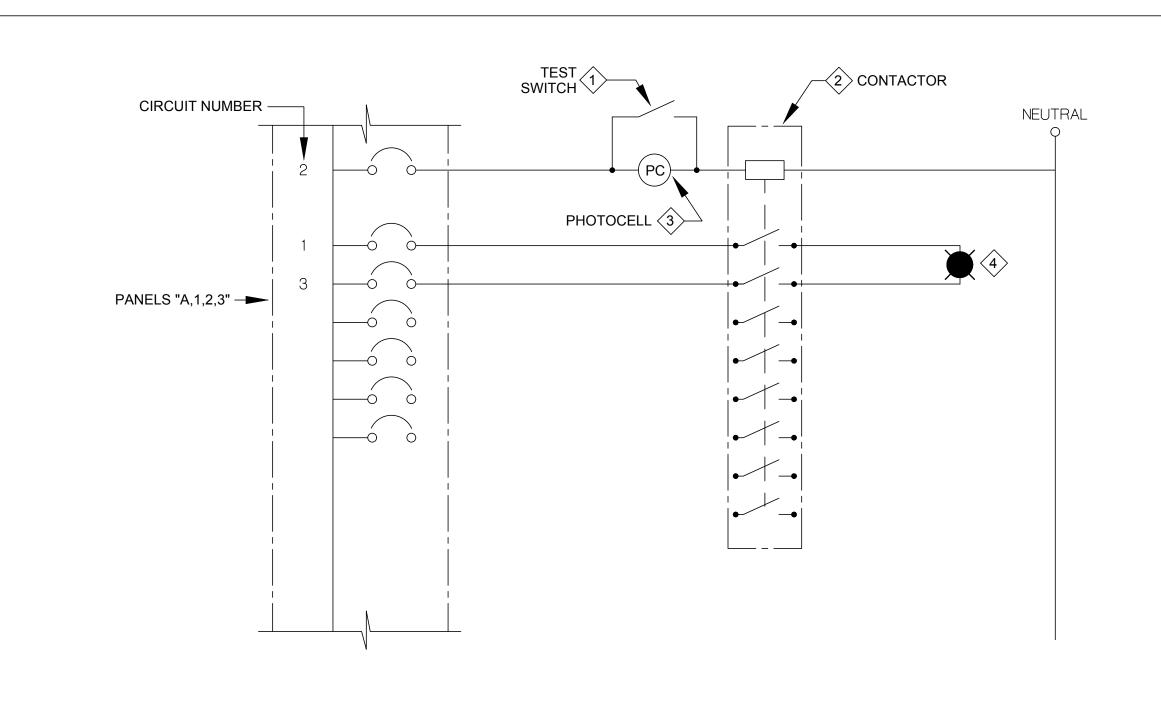
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VICINITY MAP

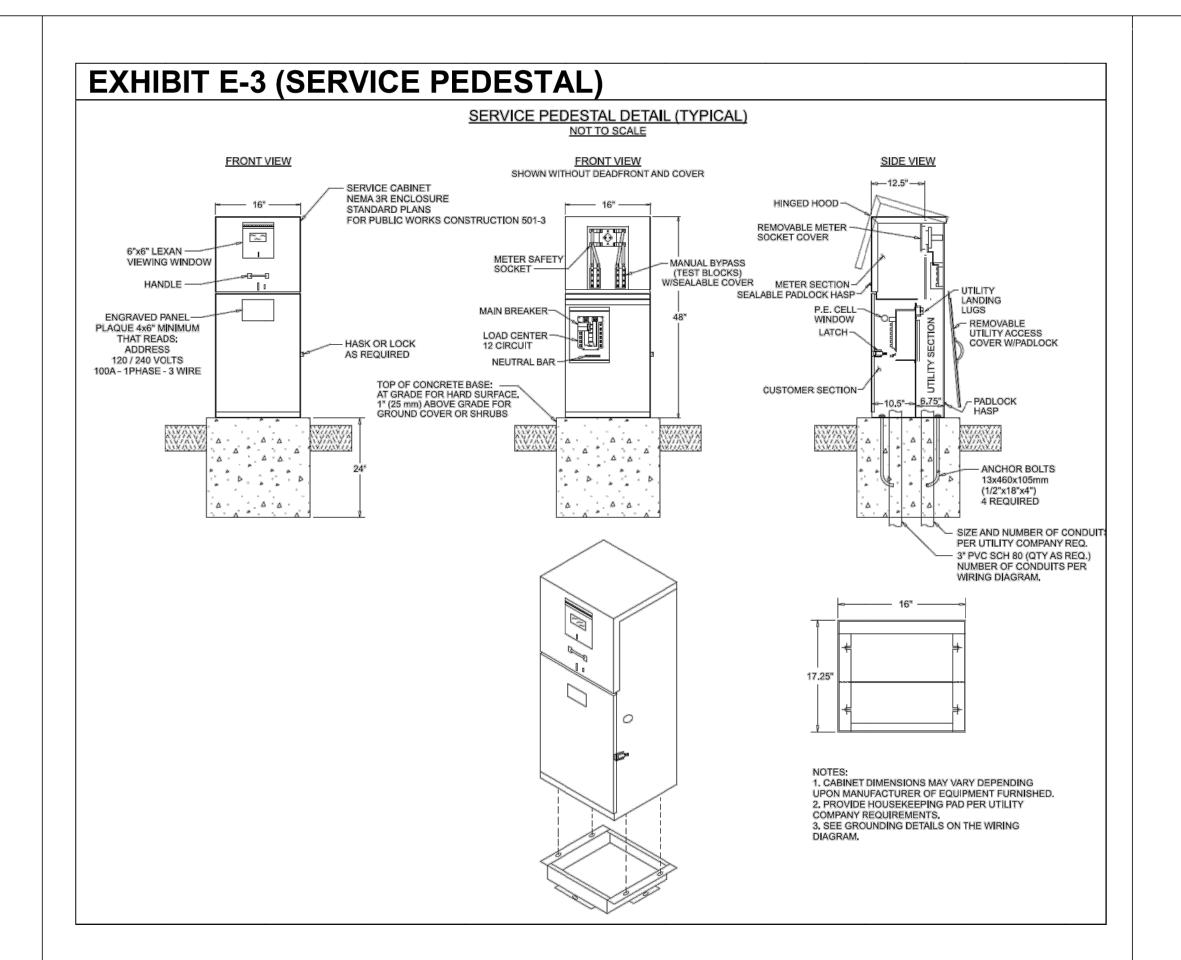
NOT TO SCALE

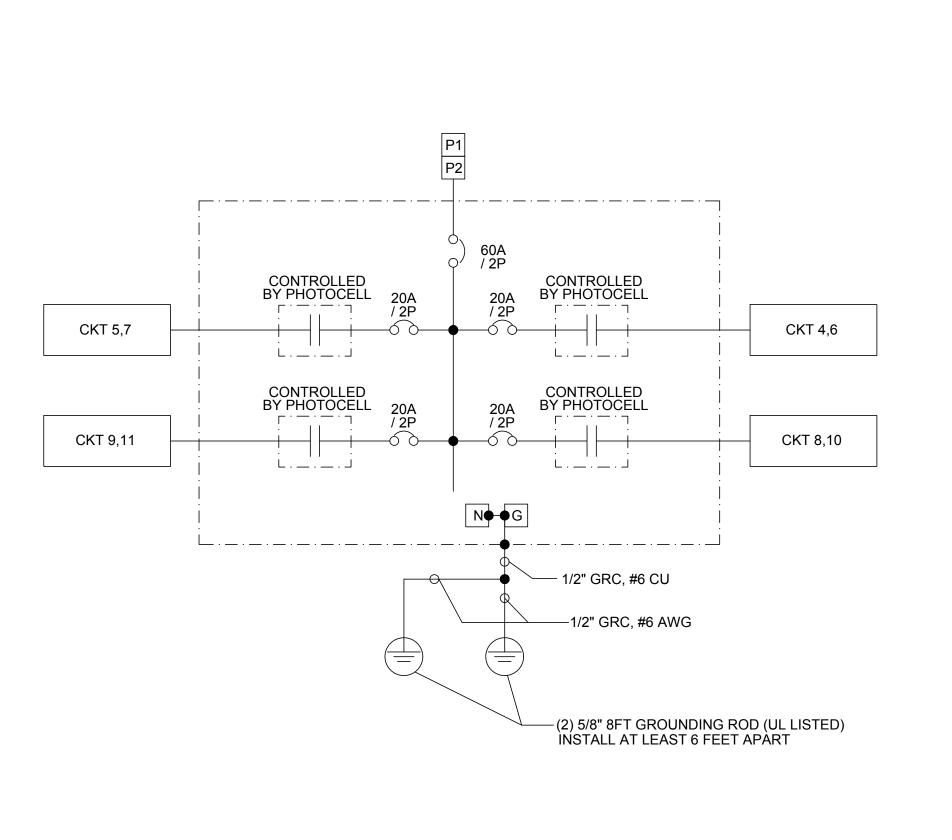






- 1 LIGHTING TEST SWITCH TO BYPASS PHOTOCELL. SWITCH ADJACENT TO CONTACTOR
- 8-POLE LIGHTING CONTACTOR, 20A (MIN), 120V COIL IN PEDESTAL ENCLOSURE SQUARE-D# 8903-LH80-V02 OR EQUAL
- 3 PHOTOCELL
- OUTDOOR LIGHTING ON AND OFF BY TIMECLOCK (DUSK DAWN)





CONTROL WIRING SCHEMATIC

REVIEWED BY

ELECTRICAL PEDESTALS DETAIL

ELECTRICAL PEDESTALS SINGLE LINE DIAGRAM

ATTACHMENT I EXHIBIT L-2 Pull Box Specifications APPROX. COVER WT. = 24 LBS. APPROX. BOX WT. = 44 LBS. HEXHEAD BOLTDOWN (2X) W/TWO FLAT WASHERS POLYMER CONCRETE BOX 3" X 4 1/4" MOUSE HOLE KNOCKOUTS 1 PER SIDE (4X) SECTION B-B SECTION A-A TYPE 2 11" X 21" X 12" POLYMER CONCRETE BOX ASSEMBLY

"TA COUNTY PUBLIC WORKS

"TO 11/16 MONE POLYMER CONCRETE A 6001859A—SLLACO 28

Z:\X9-002 Tract 52796 Los Angeles St Ltg\ES.dwg

				PANE	L SC	CHE	DULE -	· P1					
NOUN	NTING: FREESTANDING				VOLT.	AGE: 1	20/240			В	US RATIN	G: 100	
YPE:	: SERVICE PEDESTAL				F	PHASE	:: 1			AIC: 42 KA	NC FULLY	RATE	
ENCL	OSURE: NEMA 3R				\	WIRES	3: 3			DIS	RIBUTION	N: 16/1	
-OCA	ATION: CORNER OF BALBOA WAY AND SIERRA TERRACE				MA	AIN: 60.	A/2P						
CKT	DESCRIPTION	TRIP	NOTE	Α	\		В		DESCRIPTION	NOTE	TRIP	СКТ	
1	MAIN CB	60A/2P				CONTROL WIRE	1	20	2				
3	240V.	- 00AVZP		•	-			600	STREET LIGHTING	1	20A/2P	4	
5	STREET LIGHTING	20A/2P		550	(600			240V.		20/421	6	
7	240V.	20/421	'				550	700	STREET LIGHTING	1	20A/2P	8	
9	STREET LIGHTING	20A/2P	1	500	,	700			240V.	'	20/121	10	
11	240V.	20/421	'				500	C				12	
VOLTAMPS PER LINE: SUBTOTAL KVA:					50		2350						
					4.70 4.70 KVA @ 125% (LCL)								
TOTAL MINIMUM FEEDER SIZE (AMPS):					48		5.88		KVA (TOTAL FEEDER)				

			F	PANEL	SCHE	EDULE -	P2				
NOUN	ITING: FREESTANDING			V	OLTAGE:	120/240			В	US RATIN	NG: 100
YPE:	SERVICE PEDESTAL				PHASE	E: 1			AIC: 42 KA	IC FULLY	Y RATE
ENCL	OSURE: NEMA 3R				WRE	S: 3			DIST	RIBUTIO	N: 16/1
_OCA	TION: CORNER OF PICO CANYON ROAD & SIERRA TERRAC	CE			MAIN: 60	DA/2P					
CKT	DESCRIPTION	TRIP	NOTE	Α		В		DESCRIPTION	NOTE	TRIP	СКТ
1	MAIN CB	60A/2P	-	-		CONTF		DL WRE	1	20	2
3	240V.	60A2P		•	-		0				4
5	STREET LIGHTING	20A/2P	1	700	0	•					6
7	240V.	20/421	' [700	0				8
9	STREET LIGHTING	20A/2P	1	700	0						10
11	240V.	20/421	'			700	0				12
		VOLTAMPS PE	R LINE:	1400		1400					
		SUBTOTA	AL KVA:	2.80		2.80	KVA @ 1	125% (LCL)			
	TOTAL MINIMUN	M FEEDER SIZE (AMPS):	14.58		3.50	KVA (TO	TAL FEEDER)			

P1 LOAD	SUMMARY
LOAD	4700 WATTS
25%	1175 WATTS
TOTAL LOAD	5875 WATTS
	24.48 AMPS

P2 LOAD	SUMMARY
LOAD	2800 WATTS
25%	700 WATTS
TOTAL LOAD	3500 WATTS
	14.58 AMPS

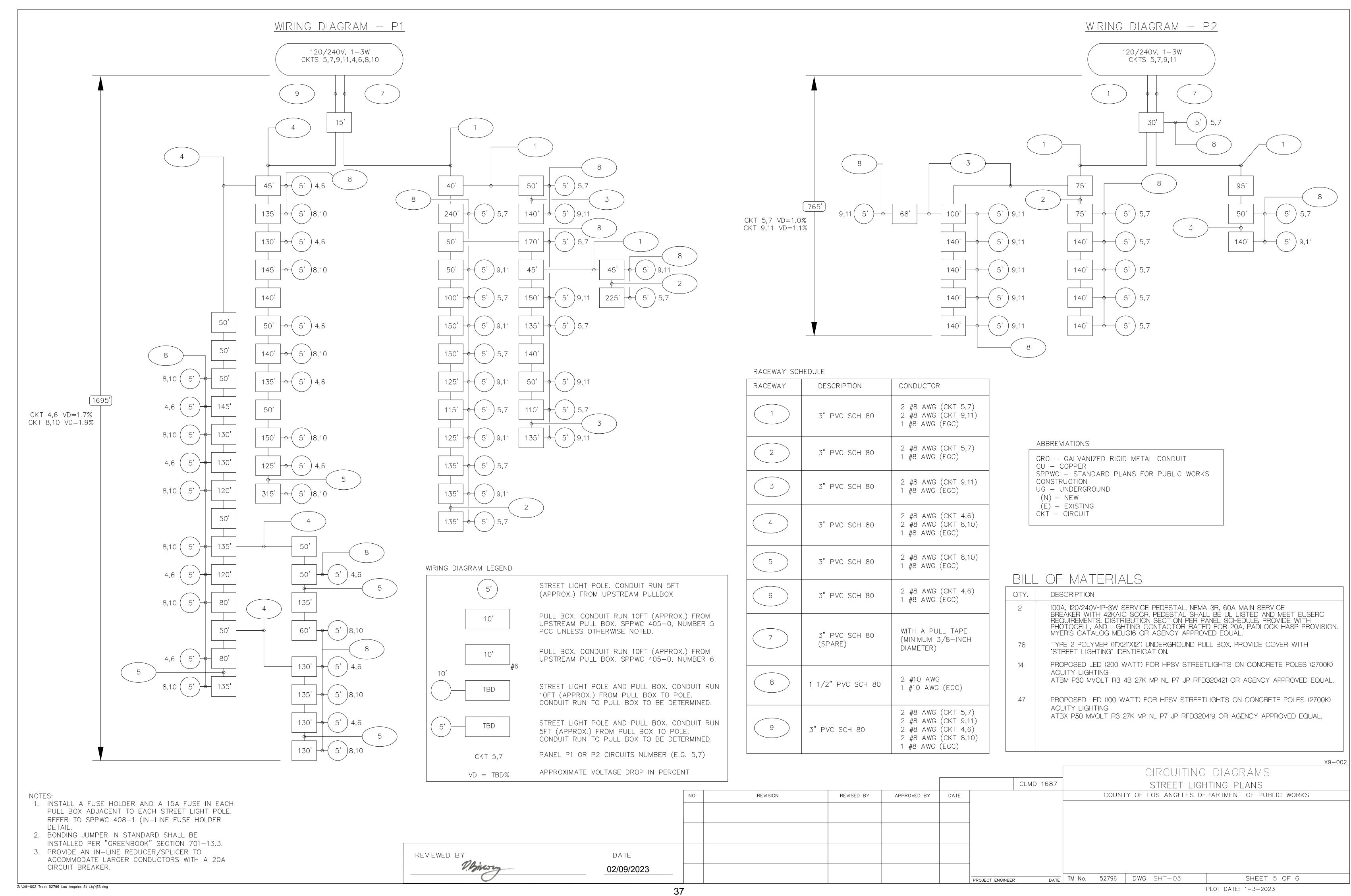
									PA	ANEL SCHE	DULES	AND DETAILS	
					CLMD 1687			STREET LIGHTING PLANS					
	NO.	REVISION	REVISED BY	APPROVED BY	DATE				COUN	TY OF LOS ANGEL	ES DEPAR	TMENT OF PUBLIC WORKS	
-													
-													
-													
_						PROJECT ENGINEER	R DATE	TM No.	52796	DWG SHT-04		SHEET 4 OF 6	

02/09/2023

DATE

PLOT DATE: 1-3-2023

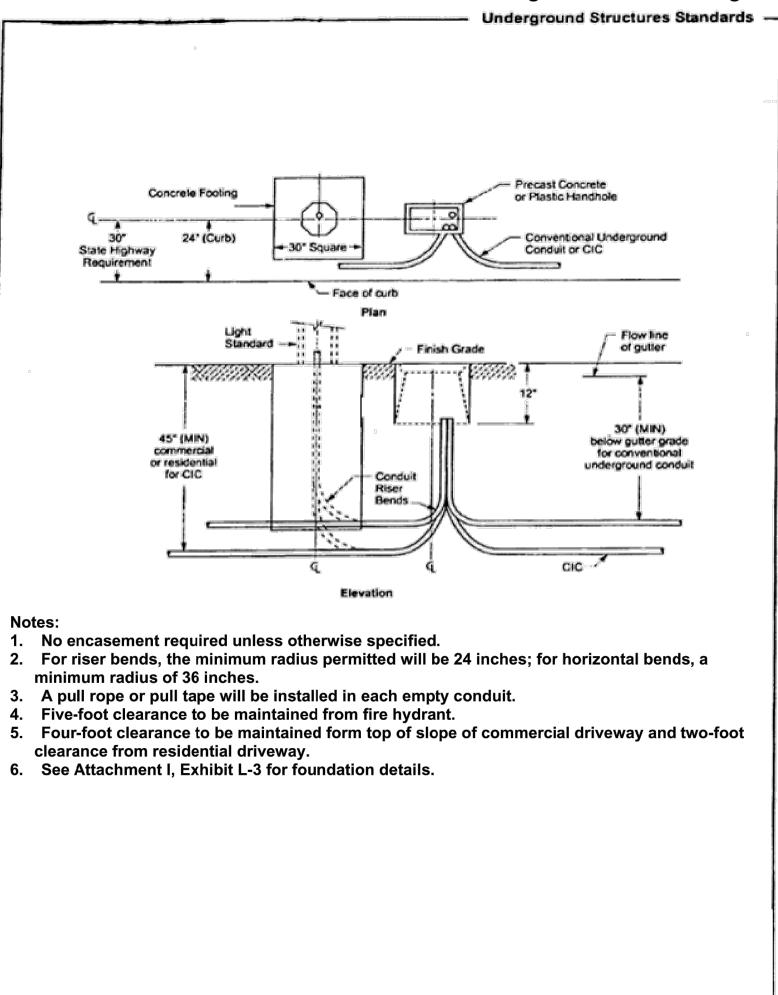
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ATTACHMENT I

EXHIBIT L-4

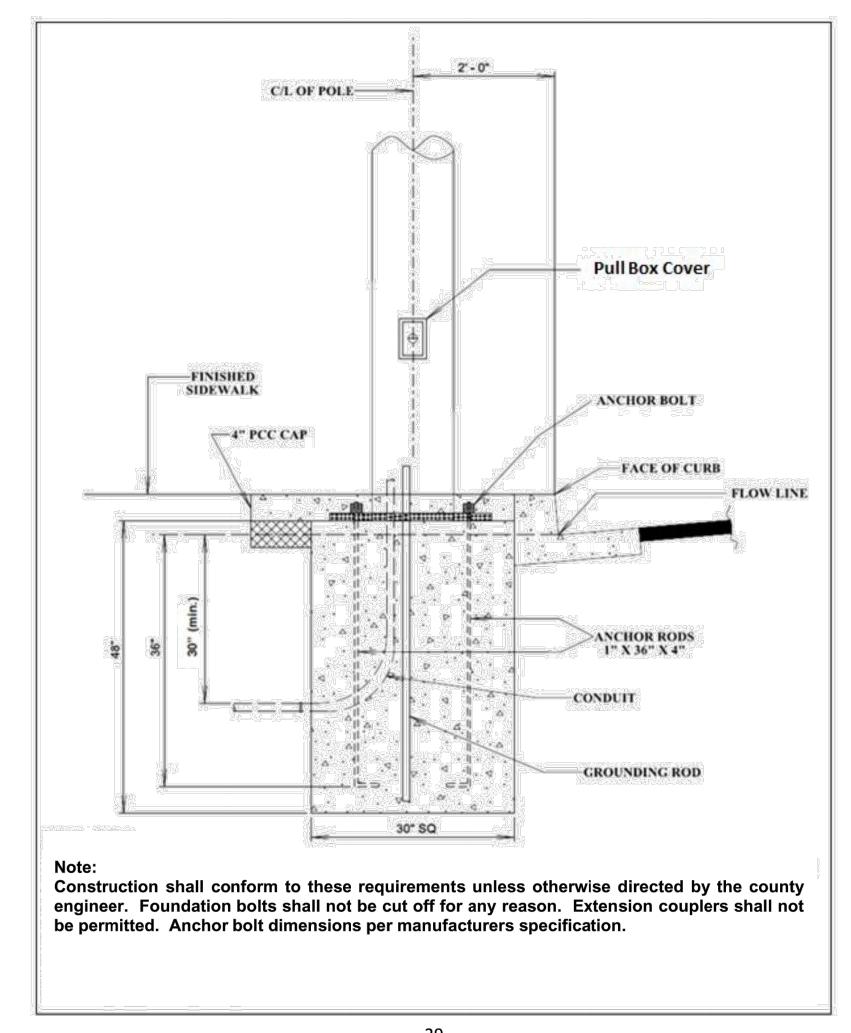
Typical Conduit and Riser Bend Installation for Pull Box through Service to Streetlight Standards



ATTACHMENT

EXHIBIT L-3

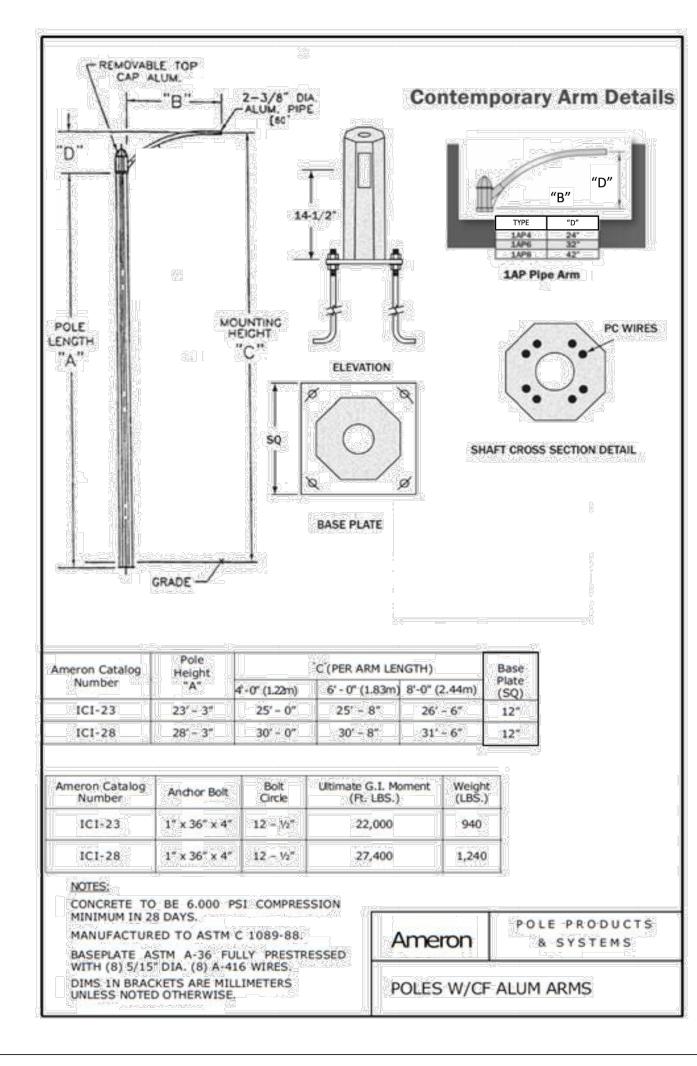
LS-2 AND LS-3 Streetlight Foundations



ATTACHMENT I

EXHIBIT L-1

Ameron Type 1-C1 Streetlight Pole and Mast Arm



GENERAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED BY NATIONAL ELECTRICAL CODE (NEC), LOCAL MUNICIPAL CODE AND
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 2. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER NEC ARTICLE 250. EACH PULL BOX SHALL BE PROVIDED WITH 5/8" 8 FT GROUNDING ROD.
- 3. ALL EQUIPMENT AND RACEWAYS SPECIFIED AS NEW SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. 4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF THE EQUIPMENT AND WORK INCLUDED. THE INTENTION OF THE DRAWINGS IS TO
- INDICATE SIZE, CAPACITY, APPROXIMATE LOCATION AND GENERAL RELATIONSHIP, BUT NOT THE EXACT DETAIL OR PHYSICAL PLACEMENT.
- 5. ALL DISTANCES SHALL BE FIELD-VERIFIED BY CONTRACTOR. 6. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES IN THE PROJECT AREA BY CONDUCTING POTHOLING METHOD PRIOR TO ANY EXCAVATION
- 7. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A COUNTY APPROVED THIRD PARTY TESTING FACILITY.

ELECTRICAL UTILITY NOTES:

- 1. CONTACT S.C.E. (SOUTHERN CALIFORNIA EDISON) PLANNING OFFICE PRIOR TO STARTING CONSTRUCTION.
- 2. AVAILABLE FAULT CURRENT BASED ON THE SHORT CIRCUIT CURRENT VALUE SPECIFIED ON FAULT DUTY LETTER. 3. CONTRACTOR SHALL INSTALL UG CONDUITS FROM EXISTING S.C.E. POWER POLE TO NEW PAD-MOUNTED SERVICE PEDESTAL PER S.C.E. REQUIREMENTS. ALL
- S.C.E. UNDERGROUND CONDUITS SHALL HAVE 30" MINIMUM COVER AND BENDING RADIUS NOT LESS THAN 12.5 FT UNLESS SPECIFIED OTHERWISE BY S.C.E.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL PAD FOR NEW SERVICE PEDESTAL PER S.C.E. REQUIREMENTS.

DUCT INSTALLATION NOTES:

- 1. SLOPE: PITCH DUCTS A MINIMUM SLOPE OF 1:300 DOWN TOWARD HANDHOLES AND AWAY FROM BUILDINGS AND EQUIPMENT. SLOPE DUCTS FROM A HIGH POINT IN RUNS BETWEEN TWO HANDHOLES TO DRAIN IN BOTH DIRECTIONS.
- 2. SEALING: PROVIDE TEMPORARY CLOSURE AT TERMINATIONS OF DUCTS THAT HAVE CABLES PULLED. SEAL SPARE DUCTS AT TERMINATIONS. USE SEALING
- COMPOUND AND PLUGS TO WITHSTAND AT LEAST 15-PSIG (1.03-MPa) HYDROSTATIC PRESSURE.
- 3. PULLING CORD: INSTALL 100-Ibf-(445-N-) TEST NYLON CORD IN DUCTS, INCLUDING SPARES.
- 4. COVER: DUCT SHALL BE INSTALLED WITH MINIMUM 30" COVER UNLESS OTHERWISE NOTED.
- 5. MATERIAL AND INSTALLATION OF ELECTRICAL SERVICE PEDESTAL AND CONDUITS FOR SERVICE CONDUCTORS SHALL MEET S.C.E. REQUIREMENTS.

6. PROVIDE 12" MINIMUM DISTANCE FROM ANY UTILITY LINE.

- PULL BOX CONSTRUCTION NOTES: 1. BOXES AND COVERS SHALL BE MANUFACTURED USING POLYMER CONCRETE MATERIAL. POLYMER MATERIAL SHALL CONSIST OF CALCAREOUS AND SILICEOUS STONE, GLASS FIBER AND THERMO SET POLYESTER RESIN. POLYMER CONCRETE COVERS SHALL BE MANUFACTURED OF POLYMER CONCRETE MATERIAL USING MATCHED DIE MOLDS TO PRODUCE A UNIFORMLY CONTROLLED DIMENSIONED PRODUCT. COVERS SHALL BE DESIGNED TO BE BOLTED DOWN TO BOXES OR HOT DIPPED GALVANIZED STEEL BRACKETS TO RETROFIT EXISTING CONCRETE BOXES.
- 2. POLYMER CONCRETE BOXES SHALL WITHSTAND A VERTICAL TEST LOAD OF 20,800LB. (H 20 WHEEL LOAD OF 16,000 LB. PLUS 30% IMPACT FACTOR) LOAD OF OVER A 10"X20"X1/2" RUBBER PLATE BACKED WITH A 10"20"X1" THICK STEEL PLATE CENTERED ON THE COVER AREA. THE TESTING LOAD SHALL NOT CAUSE ANY FAILURE TO THE BOX. THE BOX CAN BE USED WITH A PEDESTRIAN RATED COVER OR 20,800 POUNDS OF LOAD RATED TO THE BOX. THE BOX CAN BE USED WITH A PEDESTRIAN RATED COVER OR 20,800 POUNDS OF LOAD RATED COVER.
- 3. BOXES AND COVERS SHALL BE "CONCRETE GRAY" IN COLOR.
- 4. POLYMER CONCRETE MATERIAL SHALL BE TESTED BY ASTM TO MEET LA COUNTY REQUIREMENTS.

REFER TO COUNTY STANDARDS ATTACHMENT I, EXHIBITS L-1, L-2, L-3, L-4.

X9 - 002STANDARDS CLMD 1687 STREET LIGHTING PLANS COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS REVISED BY REVISION APPROVED BY DATE | TM No. 52796 | DWG SHT-06 SHEET 6 OF 6 PROJECT ENGINEER