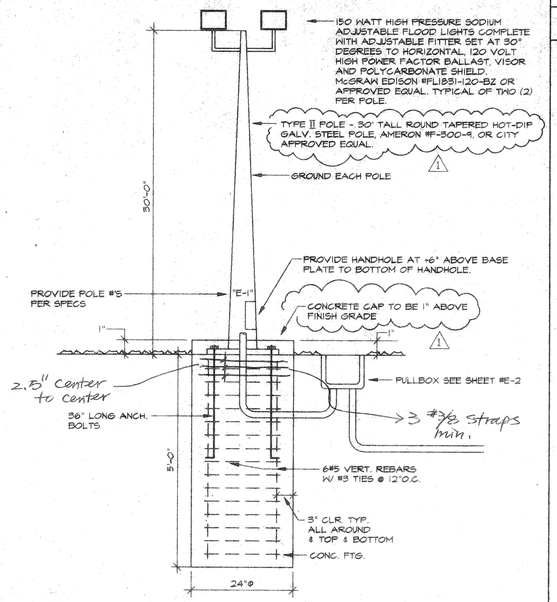
GENERAL NOTES

1. FIELD VERIFY ALL EXISTING SITE AND BUILDING CONDITIONS PRIOR TO SUBMITTING ELECTRICAL BIDS OR COMMENCING WORK. NOTIFY THE ENGINEER OF ALL CONFLICTS PRIOR TO BID FOR CLARIFICATION.
2. THE CONTRACTOR SUBMITTAL OR BID SHALL INDICATE THAT HE/SHE IS AWARE OF ALL JOB SITE CONDITIONS, ACTUAL PHYSICAL LOCATIONS, AND WORK TO BE PERFORMED.
3. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL FOLLOW THIS INTENT AS CLOSELY AS POSSIBLE.
4. PROVIDE ALL JUNCTION BOXES, PULL BOXES, GROUND WIRES, PARTS, AND NECESSARY EQUIPMENT REQUIRED TO INSURE THE INSTALLATION OF THE ELECTRICAL SYSTEMS IS CARRIED OUT IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND THE PRESENTLY ADOPTED NATIONAL ELECTRICAL CODE (N.E.C.).
5. ALL EXTERIOR EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE DESIGNATED AND FOR THE ENVIRONMENT TO WHICH EXPOSED.
6. ALL CONDUCTORS FOR EVERY SYSTEM SHALL BE PERMANENTLY IDENTIFIED AND TAGGED IN COMPLIANCE WITH OSHA STANDARDS, AND THE PROJECT SPECIFICATIONS
7. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, ETC., NEEDED TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM UPON COMPLETION OF WORK.
8. ALL MATERIALS SHALL BE NEW AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. LISTED FOR THE INTENDED USE AND SHALL BEAR THE APPROPRIATE LABELS.
9. ALL MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., N.E.M.A. AND N.B.F.U.
10. P.V.C. CONDUIT WITH CODE SIZED GROUND SHALL BE INSTALLED IN UNDERGROUND USES ONLY. CONDUIT RISERS AND STUBS ABOVE GRADE, AND ALL SWEEPS SHALL BE RIGID GALVANIZED WITH HALF-LAPPED TAPE COVER OR P.V.C. COATING.
11. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C., REFER TO GROUNDING DETAILS IN THESE DOCUMENTS.
12. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD ON ONE (1) YEAR AFTER THE DATE THE NOTICE OF COMPLETION IS FILLED BY THE CITY. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, AT NO ADDITIONAL COST TO THE CITY.
13. ALL CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER, MARKED 24" ALONG ITS LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. CONDUCTORS SHALL BE TYPE "THWN/THHN" (WET OR DRY). ALL CONDUCTORS SHALL BE INSTALLED IN APPROVED P.V.C. AND METALLIC RACEWAYS. ALUMINUM CONDUCTORS ARE NOT ALLOWED.
14. WHERE IT BECOMES NECESSARY TO DRILL OR CUT THROUGH ANY EXISTING FLOORS, WALLS, CEILINGS, PAVEMENTS OR WALKWAYS TO PERMIT THE INSTALLATION OF WORK UNDER THIS CONTRACT, THE CONTRACTOR MUST NOTIFY THE CITY/PARK PROJECTS INSPECTOR PRIOR TO COMMENCING WORK. CONTRACTOR SHALL PAY FOR ALL COSTS REQUIRED FOR CUTTING REPAIRING. ALL FINISHES SHALL MATCH EXISTING OF NEW ADJACENT SURFACES. APPROVAL OF PROPOSED PATCH WORK MADE BY THE CITY/PARK PROJECT INSPECTOR PRIOR TO REMOVALS AND REPLACMENTS OF FULL CONCRETE PANELS WILL BE REQUIRED.
15. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC.,SHALL BE TURNED OVER TO THE OWNER ALONG WITH ONE (1) SET OF ELECTRICAL 'AS-BUILTS' FOR THE PROJECT, SHOWING ACTUAL DEPTHS AND LOCATIONS OF WORK AS INSTALLED.
16. WHERE A CONFLICT OCCURS BETWEEN THESE NOTES AND THESE DRAWINGS OR ANOTHER ELECTRICAL SPECIFICATION ISSUED AS A PART OF THESE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR CLARIFICATION PRIOR TO COMMENCING WORK.
17. SUBMIT CATALOG CUTS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO: CIRCUIT BREAKERS, CONTROL DEVICES, LIGHTING FIXTURES, AND LIGHT POLES.
18. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL SUPPLY THE CITY WITH ONE (1) SPARE SET OF FUSES FOR EACH SIZE AND TYPE INSTALLED IN THE PROJECT. PROVIDE FUSE HOLDER CABINET.



SECURITY FIXTURE MOUNTING DETAIL | SCALE N.T.S. | 2

SYMBOL LIST

SYMBOL	DESCRIPTION
	POLE MOUNTED LIGHT FIXTURE - REFER TO DETAIL #2.
	DISTRIBUTION SWITCHBOARD REFER TO SINGLE LINE DIAGRAM.
PB	PULLBOX, SIZED PER N.E.C. OR AS NOTED.
- - - - -	CONDUIT RUN CONCEALED BELOW GRADE, 3/4" MINIMUM SIZE, 36" MIN. COVER.
———	BRANCH CIRCUIT WIRING, 2 #12 IN 1/2" CONDUIT OR AS NOTED OR SYMBOLIZED
	1/2"C-3#12 · 1/2"C-6#12 · 1/2"C-4#12 · 3/4"C-7#12 · 1/2"C-5#12 · 3/4"C-8#12
2	REFERENCES A PLAN NOTE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
4	REVISION REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
C	CONDUIT
E/G	EQUIPMENT GROUND (GREEN)
—X—	EXISTING UNDERGROUND UTILITY LINE
2	POLE IDENTIFICATION NUMBER

EXISTING PANEL A	LOCATION: * MAIN: * PNL AND DEVICE MIN A.I.C. RATING = *	BUS RATING 225 AMP	120/208V 3Φ 4W MOUNTING: *

LOCATION	VOLTAMPS ΦA	ΦB	ΦC	LTG	REC	MIS	CIR	BKR	A	B	C	BKR	CIR	MIS	REC	LTG	VOLTAMPS ΦA	ΦB	ΦC	LOCATION
EXISTING LOAD	2400			-	-	-	1	30	X			20	2	-	-	-	528			EXISTING LOAD
*		2400		-	-	-	3			X			4	-	-	-		500		EXISTING LOAD
*			2400	-	-	-	5	3			X		6	-	-	-			-	SPARE
*	3360			-	-	-	7	40	X				8	-	-	-	720			EXISTING LOAD
*		3360		-	-	-	9	2		X			10	-	-	-		460		*
*			500	-	-	-	11	20			X		12	-	-	-			500	*
*	528			-	-	-	13	20	X				14	-	-	-	720			*
*		540		-	-	-	15	20		X			16	-	-	-		720		*
EXISTING LOAD			540	-	-	-	17	20			X		18	-	-	-			500	*
SPARE	-			-	-	-	19	20	X				20	-	-	-	560			*
*		-		-	-	-	21			X			22	-	-	-		1000		*
*			-	-	-	-	23	3			X		24	-	-	-			1200	*
EXISTING LOAD	600			-	-	-	25	20	X				26	-	-	-	720			*
*		600		-	-	-	27	2		X			28	-	-	-		540		*
*			420	-	-	-	29	20			X		30	-	-	-			960	*
*	1100			-	-	-	31	20	X				32	-	-	-	540			*
*		1200		-	-	-	33	20		X			34	-	-	-		700		*
*			1200	-	-	-	35	20			X		36	-	-	-			500	EXISTING LOAD
*	528			-	-	-	37	20	X				38	-	-	-	1550			~~FLOOD LTS~~ USED FOR OTHER (1)
*		700		-	-	-	39	20		X			40	-	-	-		1550		~~FLOOD LTS~~ USED FOR OTHER
EXISTING LOAD			700	-	-	-	41	2			X	20	42	-	-	-			-	SPARE
	ΦA = 15654							ΦB = 14770									ΦC = 9420			

TOTAL CONNECTED VA	= 37844 VA
LCL: 17920 VA @ 125%	= 22400 VA
OTHER LOAD	= 19924 VA
TOTAL PANEL LOAD	= 42324 VA
FEEDER AMPS	= 117.5 AMPS

NOTES:

(1) PROVIDE NEW 2 POLE CONTACTOR, NEW CONTACTOR TO OPERATE NEW LIGHT CIRCUITS WITH EXISTING TIMECLOCK AND NEW PHOTO-CELL/HOA CONTROLS PER SPECIFICATIONS. CONTRACTOR TO PROVIDE A NEW CONTROL CABINET, REMOUNTING EXISTING CONTACTOR AND TIMECLOCK INTO NEW CABINET, AND SHALL PROVIDE ALL EQUIPMENT AS REQUIRED FOR A FULLY AUTOMATIC OPERATING LIGHT CONTROL SYSTEM.

CKT-38,-40 ARE LOCATED IN MAIN PANEL (Electrical / Storage Rm)
New Time Clock controls Pumpkin Lights / Flood Lights / Tiny TOT Play ground
One of two Pumpkin Light CKTs is on Photo cell for security.

CONSTRUCTION SET

AS BUILT 3-96

PLAN NO: P-0423

NICHOLS PARK
LIGHTING IMPROVEMENT
RIVERSIDE, CALIFORNIA

city of riverside
park & recreation
department
(909) 715-3469
3900 MAIN ST., RIVERSIDE, CA 92522

revisions	by
1 ADDENDUM	RPR

date	8/29/95
design	L.E.T.
drawn	G.S.J.
check	L.E.T.
acc't.no.	
SHEET	E-1 1 of 2

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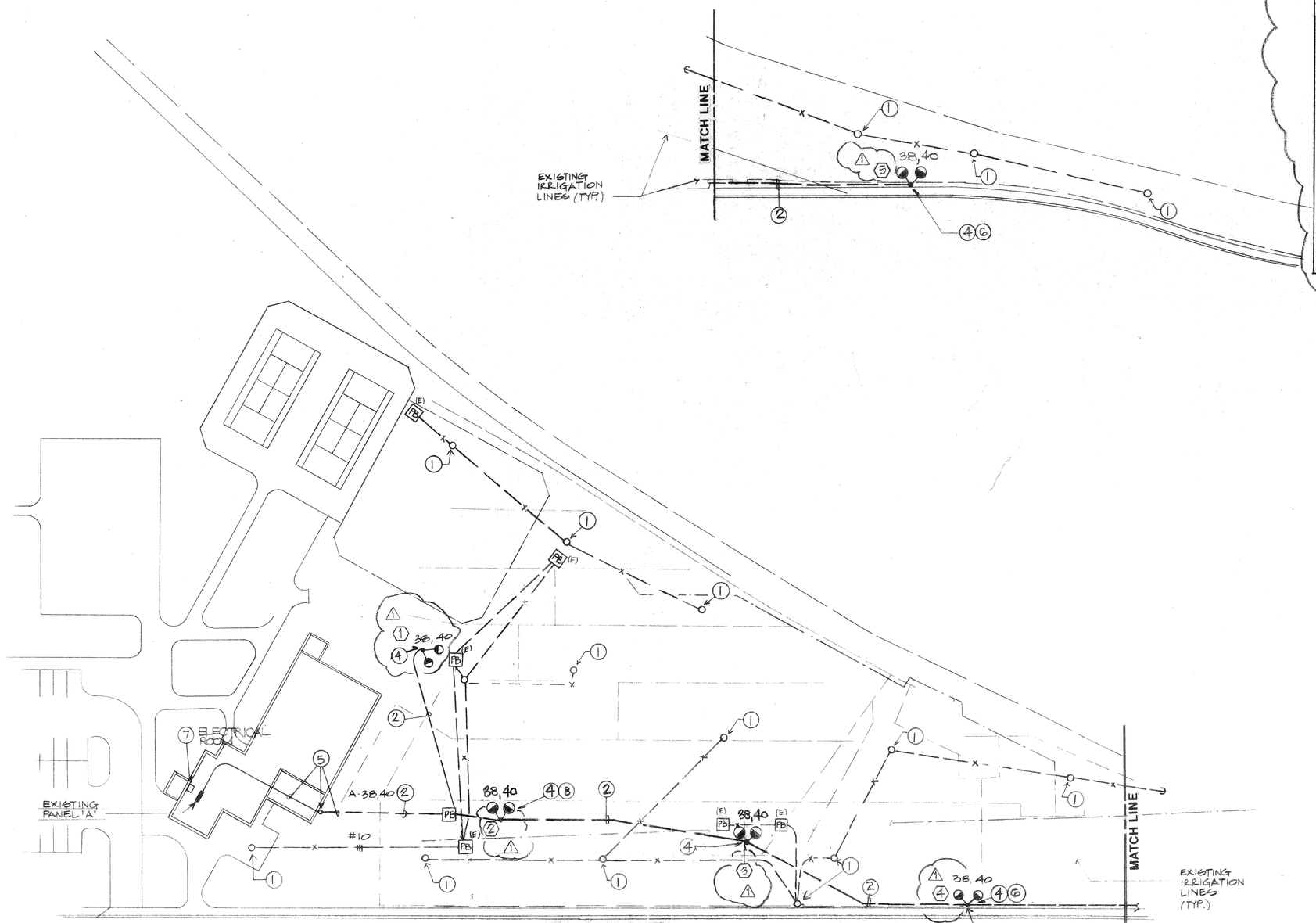
One Venture, Suite 220 (714) 753-4777
Irvine, CA 92618 Fax (714) 753-4778



PLAN NOTES:

1. EXISTING LIGHTS TO REMAIN.
2. 3 #8 & 1 #10 E/G - 1"C.
3. PROVIDE AN 11" X 17" X 24" CONCRETE PULLBOX WITH GALVANIZED STEEL BOLT DOWN COVER. PROVIDE A 12" BASE OF PEA GRAVEL BENEATH PULL BOX.
4. ALL LIGHT POLE LOCATIONS ARE DIAGRAMMATIC. PROPOSED POLE LOCATIONS ARE TO BE STAKED IN THE FIELD BY THE CONTRACTOR AND INSPECTED AND ACCEPTED BY THE PARK PROJECTS INSPECTOR PRIOR TO BORING FOUNDATIONS.
5. AS A PART OF BASE BID WORK, CONTRACTOR SHALL FIELD VERIFY WHETHER ANY EXISTING CONDUIT BETWEEN THE EXISTING PULLBOX EAST OF THE BUILDING AND THE ELECTRICAL ROOM IS LARGE ENOUGH TO ACCOMMODATE THE ADDITION OF NEW CONDUCTORS FOR THE NEW LIGHTS (I.E. 3 #8 AND 1 #10 E/G). IF POSSIBLE, CONTRACTOR SHALL RE-USE THE EXISTING CONDUIT AND PULLBOX AND SHALL PUT IN ALL NEW CONDUCTORS WITHIN THE RE-USED CONDUIT RUN, REPLACING ANY EXISTING CONDUCTORS WITH NEW MATERIALS TO MATCH EXISTING. IF ALL OF THE EXISTING CONDUITS ARE INSUFFICIENTLY SIZED TO ALLOW ADDITION OF NEW CONDUCTORS, AS A PART OF ADDITIVE BID ITEM II-A, CONTRACTOR SHALL PROVIDE A NEW PULLBOX AND A NEW CONDUIT RUN BETWEEN THE NEW PULLBOX AND THE ELECTRICAL ROOM. PROVIDE 3 #8 AND 1 #10 E/G - 1"C. FROM PULLBOX TO GYMNASIUM BUILDING. ROUTE CONDUIT AND CONDUCTORS EXPOSED UP SIDE OF BUILDING TO 12" ABOVE GRADE. PROVIDE A "LB" CONDULET AND CORE DRILL EXISTING WALL AND CONDUIT AND CONDUCTORS TO A "LB" CONDULET MOUNTED ON INSIDE WALL OF GYMNASIUM BUILDING. ROUTE CONDUIT AND CONDUCTORS EXPOSED UP GYMNASIUM WALL TO SENIOR ROOM ATTIC SPACE AND CONDUIT AND CONDUCTORS TO PANEL "A" AND TERMINATE AS REQUIRED FOR A COMPLETE AND OPERABLE LIGHTING SYSTEM.
6. ADDITIVE BID ITEM:
   LIGHT POLES AND FIXTURES (TYPICAL OF 2 LOCATIONS) SHALL BE BID AS ADDITIVE BID ITEM II-B. CONDUIT, PULLBOXES AND SPARE CONDUCTORS, PROPERLY MARKED SHALL BE PROVIDED IN BASE BID IF ADDITIVE BID ITEMS ARE NOT ACCEPTED.
7. AS A PART OF THE BASE BID CONTRACTOR SHALL PROVIDE A NEW HOA SWITCH, PHOTO CELL (MOUNTED AT POLE #2), 2 POLE CONTACTOR AND NEW CONTROL EQUIPMENT CABINET (SIZED TO ACCOMMODATE ALL EXISTING AND NEW CONTROL EQUIPMENT AS NEEDED TO OPERATE ALL EXISTING AND THE NEW LIGHT SYSTEMS). CONTRACTOR SHALL FIELD VERIFY WHETHER THE EXISTING LIGHT CONTROL TIMECLOCK IS ADEQUATE TO ACCOMMODATE THE CONTROL NEEDS FOR THE NEW FLOOD LIGHT SYSTEM, AND SHALL RE-USE ALL EXISTING COMPONENTS THAT ARE SERVICEABLE. IF THE EXISTING TIMECLOCK AND/OR OTHER SYSTEM COMPONENTS ARE INADEQUATE, CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONTROL EQUIPMENT AS SPECIFIED FOR THE LINE ITEM UNIT PRICES BID IN ADDITIVE ITEM II-C.
8. SECURITY LIGHT WITH NEW PHOTO CELL MOUNTED IN COLLAR OF FIXTURE. LIGHT FIXTURE COLLAR SHALL BE EXTENDED TO ACCOMMODATE PHOTO CELL. CONTRACTOR SHALL PROVIDE CONDUCTORS FROM PHOTO CELL AT POLE #2 BACK TO CONTACTOR CONTROL CIRCUIT AT LIGHT SYSTEM CONTROL CABINET.

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	2 of 2

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