

APPROVED

JUL 17 2019

BOARD OF RECREATION AND PARK COMMISSIONERS

BOARD REPORT

NO. 19-143

DATE July 17, 2019

C.D. 1

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: HIGHLAND PARK RECREATION CENTER - SPORTS COURT LIGHTING (AKA PROPOSITION K SPORTS LIGHTING IMPROVEMENTS: HIGHLAND PARK RECREATION CENTER) (W.O. #E170505) PROJECT – APPROVAL OF FINAL PLANS; CATEGORICAL EXEMPTION FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO ARTICLE III, SECTION 1, CLASS 1(1) [MINOR EXTERIOR ALTERATION OF EXISTING PUBLIC STRUCTURES INVOLVING MINOR CONSTRUCTION], CLASS 1(4) [REHABILITATION OF DETERIORATED STRUCTURES TO MEET CURRENT STANDARDS OF PUBLIC SAFETY] AND CLASS 1(12) [OUTDOOR LIGHTING FOR SECURITY AND OPERATION] OF CITY CEQA GUIDELINES AND ARTICLE 19, SECTION 15301(d) OF CALIFORNIA CEQA GUIDELINES..

AP Diaz
H. Fujita
V. Israel

S. Piña-Cortez

C. Santo Domingo

N. Williams

John J. Fox
General Manager

Approved X

Disapproved _____

Withdrawn _____

RECOMMENDATIONS

1. Approve the final plans and specifications, substantially in the form on file in the Board Office, for the Highland Park Recreation Center - Sports Court Lighting (AKA Proposition (Prop) K Sports Lighting Improvements: Highland Park RC) (W.O. #E170505) Project (Project);
2. Find the that proposed Project is Categorically Exempt from the California Environmental Quality Act (CEQA), pursuant to Article III, Section 1, Class 1(1) [Minor Exterior Alteration of Existing Public Structures Involving Minor Construction], Class 1(4) [Rehabilitation of Deteriorated Structures to Meet Current Standards of Public Safety] and Class 1(12) [Outdoor Lighting for Security and Operation] of City CEQA Guidelines and to Article 19, Section 15301(d) of California CEQA Guidelines, and direct Staff to file a Notice of Exemption (NOE) with the City and the Los Angeles County Clerk's Office; and,
3. Authorize Department of Recreation and Park's (RAP) Chief Accounting Employee or Designee to make technical corrections as necessary to carry out the intent of this Report.

BOARD REPORT

PG. 2 NO. 19-143

SUMMARY

Highland Park Recreation Center is located at 6150 Piedmont Avenue, in the Highland Park community of the City. This 5.41 acre park provides a gymnasium, swimming pool and bathhouse, basketball courts, children’s play area and ball fields. Approximately 7,939 residents live within a half-mile (1/2) walking distance of the recreation center.

The Highland Park Recreation Center - Sports Court Lighting (AKA Prop K Sports Lighting Improvements: Highland Park RC) (W.O. #E170505) Project (Project) is a Proposition K – L.A. for Kids Program Competitive Grant funded project.

The Highland Park Recreation Center - Sports Court Lighting (AKA Prop K Sports Lighting Improvements: Highland Park RC) (W.O. #E170505) Project scope of work consists of replacing existing lighting at two (2) full-court and two (2) half-court basketball courts with new, high efficiency, Light Emitting Diode (LED) light fixtures. This will provide an improved quality of lighting, with reduced spillover of light onto adjacent properties and/or other areas of the recreation center. The new LED light fixtures will also reduce operational costs, by reducing energy consumption relative to current electrical usage.

After review by RAP and the Department of Public Works, Bureau of Engineering (BOE), it was determined that the work can be performed by RAP pre-qualified on call contractors. RAP Staff recommends the Project to be constructed by the on call contractors and that BOE to provide construction management services during the construction of these improvements.

RAP’s Planning, Construction, and Maintenance Branch prepared the plans, specifications, and obtained all the necessary permits for the project. As required by the Proposition K guidelines, three (3) Local Volunteer Neighborhood Oversight Committee (LVNOC) meetings were conducted. The first LVNOC meeting was held on December 14, 2016. The second LVNOC meeting was held on March 14, 2017. The third LVNOC meeting was held on April 19, 2017. The community, LVNOC members, and Office of Council District 1 are in full support of the project.

Sufficient funds are available for the construction and construction contingencies from the following funds and accounts:

<u>FUNDING SOURCE</u>	<u>FUND/DEPT./ACCT. NO.</u>
Proposition K	43K/10/10NPFA

TREES AND SHADE

The proposed Project does not require any trees removal. Existing trees near the location of proposed new lighting fixtures will be protected during the construction period. Since this project focuses on improving lighting for evening recreation activities, additional trees and shade structures are not part of the scope. Furthermore, the approved Proposition K funds for this project do not include funding for installation of shade structures and/or trees.

BOARD REPORT

PG. 3 NO. 19-143

ENVIRONMENTAL IMPACT

The proposed Project consists of minor construction work to replace existing lighting with new LED lighting fixtures for security reasons. As such, RAP staff recommends that the Board of Recreation and Park Commissioners determines that the project is exempt from the provision of the California Environmental Quality Act (CEQA) pursuant to Article III, Section 1, Class 1(1),(4),(12) of City CEQA Guidelines and Article 19, Section 15301(d), of California CEQA Guidelines.

FISCAL IMPACT

There is no immediate fiscal impact to RAP's General Fund. When completed, the Project should reduce long term maintenance and operational costs, due to replacement of existing and high energy consumption of sports court lighting systems with new and energy efficient LED lighting systems.

STRATEGIC PLAN INITIATIVES AND GOALS

Approval of this Board Report advances RAP's Strategic Plan by supporting:

Goal No.5: Ensure an environmentally sustainable park system
Outcome No. 1: Decreased energy consumption and achieve a smaller carbon footprint
Target:
100 by 2022

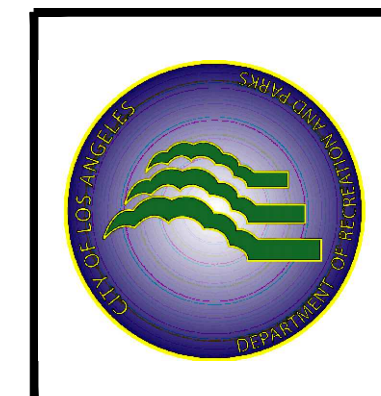
This Report was prepared by Erick Chang, Project Manager, BOE Architectural Division. Reviewed by Neil Drucker, Interim Division Manager, BOE Architectural Division, and Darryl Ford, Superintendent, Planning, Maintenance and Construction Branch.

LIST OF ATTACHMENT

Final plans and specifications

DEPARTMENT OF RECREATION AND PARKS
CITY OF LOS ANGELES

PROP K SPORTS LIGHTING IMPROVEMENT: HIGHLAND PARK RC



ELECTRICAL SPECIFICATIONS (CONT.)

16. TAGGING:

REQUIRED: ON BOTH HOT AND NEUTRAL WIRES OF ALL CIRCUIT IN SWITCHBOARD AND PANELBOARDS, AT PULL, JUNCTION AND OUTLET BOXES AT EACH DEVICE OR LIGHTING FIXTURE. TAGGING SHALL PROVIDE POSITIVE AND PERMANENT IDENTIFICATION AND SHALL BE SCOTCH NUMERAL TAPE BY THE MINNESOTA MINING AND MANUFACTURING CO.

17. EQUIPMENT AND ELECTRICAL CONNECTIONS:

(A.) SEE DIVISION 1 SECTION 38 FOR MATERIAL TESTING.

(B.) PROVIDE ALL INSTRUMENTS, EQUIPMENT AND LABOR REQUIRED FOR THE SPECIFIED TESTS. CONDUCT ALL TESTS IN THE PRESENCE OF THE GEN. MANAGER OR AUTHORIZED REPRESENTATIVE. CONDUCT THE TEST AT SUCH TIME AS THE GEN. MANAGER MAY DIRECT OR AS SPECIFIED. TESTS FAILING TO CONFORM TO THE REQUIREMENTS OF THE DRAWING AND SPECIFICATIONS, AND ANY PIECE OF EQUIPMENT THAT FAILS THE TEST DESCRIBED HEREIN WILL BE REJECTED AND SUITABLE EQUIPMENT SHALL BE PROVIDED AND INSTALLED. TABULATE AND FORWARD TO THE PROJECT MANAGER IN TRIPLICATE ALL THE PERTINENT TEST DATA. INCLUDE THE DATE OF THE TEST, IDENTIFICATION OF ALL ITEMS TESTED, READINGS FOR EACH TEST, COMMENTS WHERE REQUIRED AND THE SIGNATURES OF THE INDIVIDUAL CONDUCTING THE TEST AND OF THE GEN. MANAGER'S REPRESENTATIVE OBSERVING THE TEST. FORWARD ALL THE TEST DATA TO THE PROJECT MANAGER WITHIN 10 DAYS OF THE TEST PERFORMANCE BUT IN NO CASE LATER THAN 5 DAYS BEFORE THE SCHEDULED FINAL INSPECTION.

(C.) THE FOLLOWING TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE DEPT. INSPECTOR OR REPRESENTATIVE. TABULATE TEST RESULTS FOR THE DEPT. OF RECREATION AND PARKS RECORDS.

1. CONDUCTORS 600-VOLT CLASS: AFTER WIRING IS COMPLETED AND CONNECTED FOR OPERATION, BUT PRIOR TO PLACING SYSTEMS IN SERVICE AND BEFORE ANY BRANCH CIRCUIT BREAKERS ARE CLOSED, PERFORM INSULATION RESISTANCE TESTS IN ALL CIRCUITS. MEASURE THE INSULATION RESISTANCE BETWEEN EACH CONDUCTORS AND GROUND. TAKE READINGS AFTER THE VOLTAGE HAS BEEN APPLIED FOR A MINIMUM OF ONE MINUTE. THE MINIMUM INSULATION RESISTANCE BASED ON THE ALLOWABLE AMPACITY OF THE CONDUCTOR AS FIXED BY NFPA 70 SHALL BE AS FOLLOWS:

AMPERES	OHMS
25 THROUGH 50	250,000
51 THROUGH 100	100,000
101 THROUGH 200	50,000
201 THROUGH 400	25,000

2. HIGH VOLTAGE CONDUCTORS (ABOVE 600 VOLTS): AFTER INSTALLATION AND BEFORE SPLICING AND TERMINATING, PERFORM A FIELD ACCEPTANCE TEST ON CABLES PRIOR TO TESTING. THE CABLES SHALL NOT BE CONNECTED TO ANY EQUIPMENT. THE TEST PROCEDURE SHALL BE IN ACCORDANCE WITH AEC AND NEMA. FIELD ACCEPTANCE TEST SHALL BE 15 KV FOR DC FOR 15 MINUTES. IF CABLE FAILS TO PASS INITIAL TEST, PERFORM SUBSEQUENT ACCEPTANCE TESTS UNTIL THE WORK IS IN COMPLIANCE WITH THE CONTRACT REQUIREMENTS.

3. GROUND RODS: GROUND RESISTANCE TEST SHALL BE PERFORMED IN NORMALLY DRY WEATHER NOT LESS THAN 48 HOURS AFTER RAINFALL. GROUND RESISTANCE SHALL BE MEASURED FOR EACH PIECE OF EQUIPMENT TO THE GROUND ELECTRODE. USE A PORTABLE GROUND TESTING MEGGER TO TEST EACH GROUND OR GROUP OF GROUNDS. THE EQUIPMENT SHALL BE EQUIPPED WITH A METER READING DIRECTLY IN OHMS OR FRACTIONS THEREOF TO INDICATE THE GROUND VALUE OF THE GROUND ELECTRODE UNDER TEST. PROVIDE ONE COPY OF THE GROUND MEGGER'S DIRECTIONS, INDICATING THE METHOD TO BE USED.

18. LIGHTING FIXTURES:

(A.) TYPES:

1. AS INDICATED HEREINAFTER AND IN THE LIGHTING FIXTURE LIST, ALL FIXTURES MUST BE UL LISTED AND SUPPORTING MEMBERS SUCH AS RODS AND PIPES MUST BE APPROVED BY THE CITY OF LOS ANGELES ELECTRICAL TESTING LABORATORY.

2. ALL FIXTURES USED AS RACEWAYS SHALL CONFORM TO THE CODE REQUIREMENTS FOR MAXIMUM NUMBER OF CONDUCTORS PERMITTED. BOX TEMPERATURES SHALL NOT EXCEED 75°C ADJACENT TO THHN/THWN WIRE.

3. ALL FIXTURES SHALL BE UL LISTED FOR THE PURPOSE, WET LOCATION FOR OUTDOOR INSTALLATION, AND DAMP LOCATION FOR SHOWERS AND CANOPIES.

(B.) FITTINGS AND ACCESSORIES: AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.

(C.) DEVIATION SHALL BE SUBMITTED TO THE DEPARTMENT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

(D.) SPORTS LIGHTING FIXTURES: SUBMIT AN AIMING DIAGRAM FROM FIXTURE MANUFACTURER TO THE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL ENSURE THAT FIXTURES ARE INSTALLED IN ACCORDANCE TO APPROVED AIMING DIAGRAM.

19. RECORD DRAWINGS:

(A.) IMMEDIATELY AFTER WORK IS INSTALLED, CAREFULLY DRAW ON PRINTS IN RED INK ALL WORK WHICH IS INSTALLED AT VARIANCE WITH THE WORK AS INDICATED ON THE DRAWINGS. INDICATE BY MEASURED DIMENSION TO BUILDING CORNERS OR OTHER PERMANENT MONUMENTS THE EXACT LOCATION OF ALL CHANGES.

(B.) ACCURATE LOCATIONS OF ALL POLES, CONDUIT RUNS, WIRING, NAMES AND MODEL NUMBERS OF ACCEPTED SUBSTITUTE EQUIPMENT, ELECTRICAL OUTLETS AND OTHER EQUIPMENT AS INSTALLED SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.

20. OPERATING MANUALS AND INSTRUCTIONS:

(A.) THE CONTRACTOR SHALL FURNISH TO THE CITY FOUR BOUND COPIES OF OPERATING AND MAINTENANCE MANUAL FOR ALL ELECTRICAL EQUIPMENT.

(B.) THE CONTRACTOR SHALL EXPLAIN IN DETAIL ALL MANUALS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT TO THE RECREATION AND PARKS MAINTENANCE PERSONNEL BEFORE COMPLETION AND ACCEPTANCE OF THE PROJECT.

20. RECORD DRAWINGS:

(A.) IMMEDIATELY AFTER WORK IS INSTALLED, CAREFULLY DRAW ON PRINTS IN RED INK ALL WORK WHICH IS INSTALLED AT VARIANCE WITH THE WORK AS INDICATED ON THE DRAWINGS. INDICATE BY MEASURED DIMENSION TO BUILDING CORNERS OR OTHER PERMANENT MONUMENTS THE EXACT LOCATION OF ALL CHANGES.

(B.) ACCURATE LOCATIONS OF ALL POLES, CONDUIT RUNS, WIRING, NAMES AND MODEL NUMBERS OF ACCEPTED SUBSTITUTE EQUIPMENT, ELECTRICAL OUTLETS AND OTHER EQUIPMENT AS INSTALLED SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.

21. OPERATING MANUALS AND INSTRUCTIONS:

(A.) THE CONTRACTOR SHALL FURNISH TO THE CITY FOUR BOUND COPIES OF OPERATING AND MAINTENANCE MANUAL FOR ALL ELECTRICAL EQUIPMENT.

(B.) THE CONTRACTOR SHALL EXPLAIN IN DETAIL ALL MANUALS FOR THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT TO THE RECREATION AND PARKS MAINTENANCE PERSONNEL BEFORE COMPLETION AND ACCEPTANCE OF THE PROJECT.

ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF THEIR WORK. SUBMISSION OF A PROPOSAL OR BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND PROPERLY FUNCTIONING SYSTEM.
2. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL EQUIPMENT DESCRIBED. ANY INCONSISTENCY SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION FOR CLARIFICATION. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR, COORDINATE ALL WORK WITH OTHER TRADES AND COMPLY WITH ALL APPLICABLE CODES.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIOR TO JOB START AND OBTAIN FINAL INSPECTION APPROVAL FROM THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL ELECTRICAL EQUIPMENT AND MATERIALS TO THE DEPARTMENT FOR APPROVAL PRIOR TO ORDERING AND SHALL BE RESPONSIBLE FOR ANY DELAYS INCURRED DUE TO REJECTED ITEMS.
5. ANY DAMAGES DONE IN THE COURSE OF CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE SATISFACTORY TO THE PROJECT MANAGER.
6. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY AND MAYBE VARIED IN THE FIELD. MINIMUM CONDUIT SIZE SHALL BE 3/4-INCH UNLESS NOTED ON THE PLAN. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH THE ADJACENT FINISH.
7. CONTRACTOR SHALL FURNISH TO THE DEPARTMENT A VANDAL PROOF SCREW DRIVER FOR EACH TYPE OF VANDAL PROOF SCREWS USED IN THE PROJECT.
8. PVC INSTALLED UNDERGROUND SHALL BE 24-INCHES DEEP AND COVERED WITH AT LEAST 3-INCH 100-E-100 CONCRETE MIX.



VICINITY MAP
SCALE: NONE

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

ASSISTANT GENERAL MANAGER: RAMON BARRAJAS

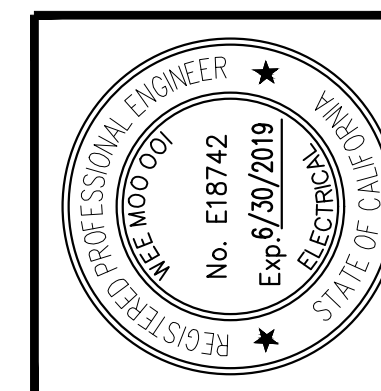
GENERAL MANAGER: MIKE SHULL

PROJECT LANDSCAPE ARCHITECT: David Doi

PROJECT ENGINEER: _____

AS BUILTS DRAWN BY: _____

DATE: _____



PROJECT NAME:
**PROP K SPORTS LIGHTING
RETROFIT: HIGHLAND PK RC**

ADDRESS:
**6150 PIEDMONT AVENUE
LOS ANGELES, CA 90042**

REVISIONS:	DATE:
△	
△	
△	
△	
△	

PLAN NAME:
ELECTRICAL SPECS
& NOTES

DRAWN BY:
DO

APPROVED BY:

SCALE:
1/28/2018

ISSUE DATE:
1/28/2018

W.O. NO. _____

FILE NO. _____

DRAWING NO.
E2.0

SHEET 2 OF 4 SHEETS

FIXTURE SCHEDULE										
Tag	Qty	Catalog Number	Description	Lamp	IES File	Lumens	LLF	Watts	Volts	Currents
A	8	VUE-3-T4-20RL-1050-5500-1050-W SPORTS LIGHT SHIELD	LED shall be controlled by photocell, motion sensor and time clock. 1,2	LED	VUE-3-T4-20RL-1050-W SPORTS LIGHT SHIELD	69793	1.0	671	120-277V	1050 mA

- LED switch "ON/OFF" automatically by motion sensor. LED switch "ON" when the court is occupied. LED stay "ON" for 30 minutes and switch "OFF" if no motion is detected. Cycle repeats. LED turn "OFF" by time clock after 10:30PM.
- LED shall be factory equipped with controller for wireless remote motoring and scheduling.

POLE NUMBER (EXISTING POLE U.N.O.)	QTY REMOVED (1100W - LAMP + BALLAST)	QTY REMOVED (470W - LAMP + BALLAST)	QTY REMOVED (1650W - LAMP + BALLAST)	EXIST. NOMINAL LOAD (W)	INSTALL 409W LED	INSTALL 584W LED	INSTALL 671W LED	NEW NOMINAL LOAD (W)
P1	1			1100			2	1342
P2	1			1100			2	1342
P3	1			1100			2	1342
P4	1			1100			2	1342
TOTAL	4			4.4 kW			8	5.4 kW

EQUIPMENT REMOVAL & INSTALLATION SCHEDULE

ILLUMINANCE LEVEL STANDARDS

- L70 RATING OF MINIMUM 90,000 HOURS OF OPERATION
- MINIMUM OF 50 FC AVERAGE IN ACCORDANCE WITH LA REC & PARKS STANDARD LIGHT LEVELS AND UNIFORM LIGHTING WITH A MAX/MIN RATIO OF 2:1 OR BETTER FOR INFIELD (U.O.N.).
- MINIMUM OF 30 FC AVERAGE IN ACCORDANCE WITH LA REC & PARKS STANDARD LIGHT LEVELS AND UNIFORM LIGHTING WITH A MAX/MIN RATIO OF 2.5:1 OR BETTER FOR OUTFIELD (U.O.N.).
- COLOR TEMPERATURE OF 5500 DEG.K +-200K.
- MINIMUM OF 30 FC AVERAGE IN ACCORDANCE WITH LA REC & PARKS STANDARD LIGHT LEVELS AND UNIFORM LIGHTING WITH A MAX/MIN RATIO OF 3:1 OR BETTER FOR BASKETBALL (U.O.N.).

POWER NOTES

- THE CONTRACTOR SHALL EXAMINE THE CONDITION OF THE EXISTING ELECTRICAL INSTALLATION SUCH AS POWER CONNECTIONS, WIRING, JUNCTION BOXES, LIGHTING EQUIPMENT AND FOUNDATION AND REPORT ANY PROBLEMS TO THE PROJECT MANAGER PRIOR TO SUBMISSION OF BID.

SYMBOL LEGEND

- ⊙ PROPOSED LED
- ⊕ EXISTING POLE
- P# POLE NUMBER

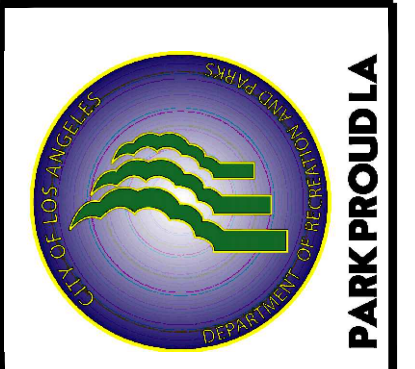
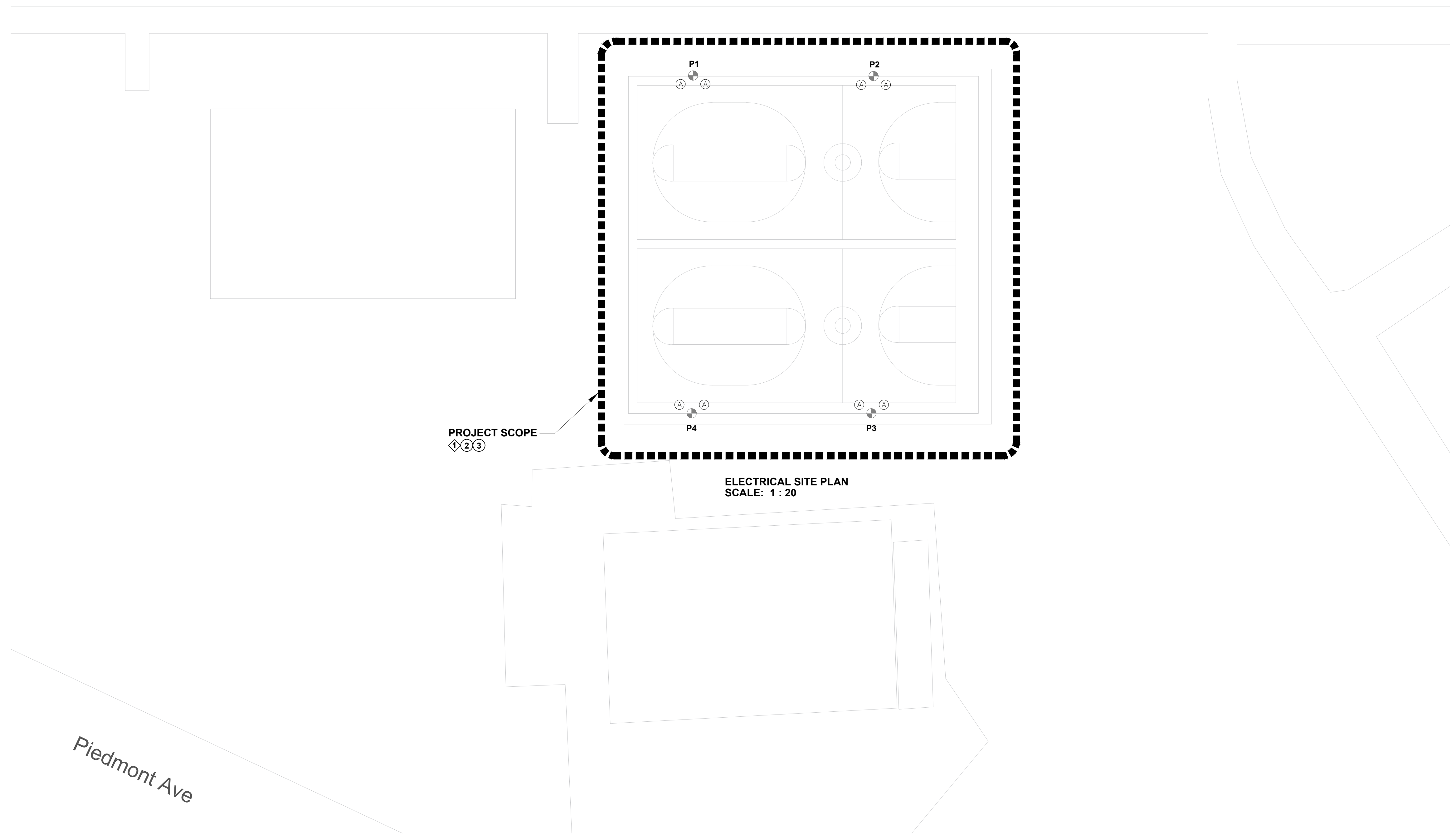
SHEET NOTES

- THE CONTRACTOR SHALL EXAMINE THE CONDITION OF THE EXISTING POWER CONNECTIONS, WIRING, AND JUNCTION BOXES AND REPORT ANY PROBLEMS TO THE PROJECT MANAGER.
- THE CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIXTURES IN ACCORDANCE WITH ACCEPTABLE PRACTICES AND REGULATIONS REGARDING SAME. PROVIDE COPIES TO DEPT. OF REC AND PARKS, OF ANY MANIFESTS REQUIRED DURING THE DISPOSAL OF ANY ENVIRONMENTALLY CONTROLLED SUBSTANCES.
- THE CONTRACTOR SHALL PROVIDE THREE (3) ELECTRONIC COPIES OF ALL ALL FINAL DOCUMENTS INCLUDING OWNER'S MANUALS, SHOP DRAWINGS, WARRANTIES, INSPECTION REPORTS/CERTIFICATES, AND AS-BUILT DRAWINGS ON CD, DVD, OR FLASH MEMORY.
- THE CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS AND CUT SHEETS OF THE PROPOSED LED LIGHT FIXTURE FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL OBTAIN RIGHT-OF-ENTRY PERMIT FROM LA REC & PARKS AND COORDINATE WITH THE FACILITY DIRECTOR PRIOR TO ANY REMOVAL AND INSTALLATION WORK.
- THE CONTRACTOR SHALL PROVIDE LIGHT METER READINGS IN THE AREAS SPECIFIED BY LA REC & PARKS VERIFYING THAT THE LIGHTING RETROFIT INSTALLATION PROVIDES THE LIGHTING LEVELS ON THE APPROVED PHOTOMETRIC CALCULATIONS AND ON THE FINAL DRAWINGS THAT WERE PROVIDED TO LA REC & PARKS.
- THE CONTRACTOR SHALL PROVIDE A PDF OR AN IMAGE COPY OF UPDATED PANEL SCHEDULE AND DIRECTORY ALONG WITH OTHER FINAL DOCUMENTS SUBMITTING TO LA REC & PARKS UPON COMPLETION OF THE PROJECT.

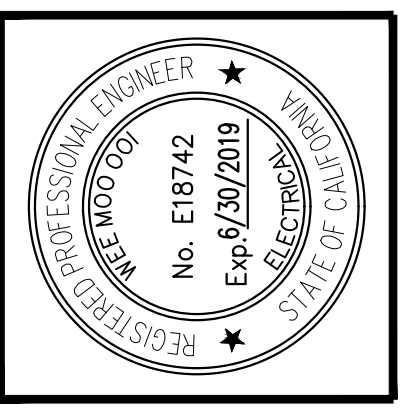
KEY NOTES

- INSTALL NEW POLE AND FOUNDATION PER MANUFACTURER'S RECOMMENDATION.
- REMOVE EXISTING HID FIXTURES AND INSTALL LED PER REMOVAL AND INSTALLATION SCHEDULE.
- EXISTING POLES TO REMAIN AND PROTECTED.

N Figueroa St



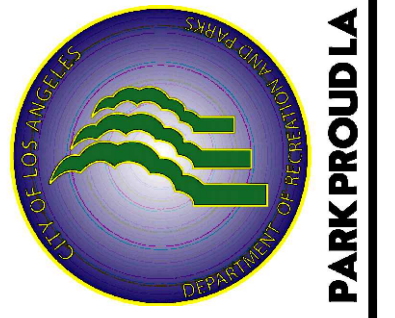
THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: David Ooi
PROJECT ENGINEER: David Ooi
AS-BUILTS DRAWN BY: _____ DATE: _____



PROJECT NAME:
**PROP K SPORTS LIGHTING
RETROFIT: HIGHLAND PK RC**
ADDRESS:
**6150 PIEDMONT AVENUE
LOS ANGELES, CA 90042**

REVISIONS:	DATE:
△	
△	
△	
△	
△	

PLAN NAME: ELECTRICAL SITE PLAN	
DRAWN BY: DO	APPROVED BY: ---
SCALE:	ISSUE DATE: 1/28/2018
W.O. NO. ---	FILE NO. ---
DRAWING NO. E3.0	
SHEET 3 OF 4 SHEETS	



PARK PROUDA

SHEET NOTES

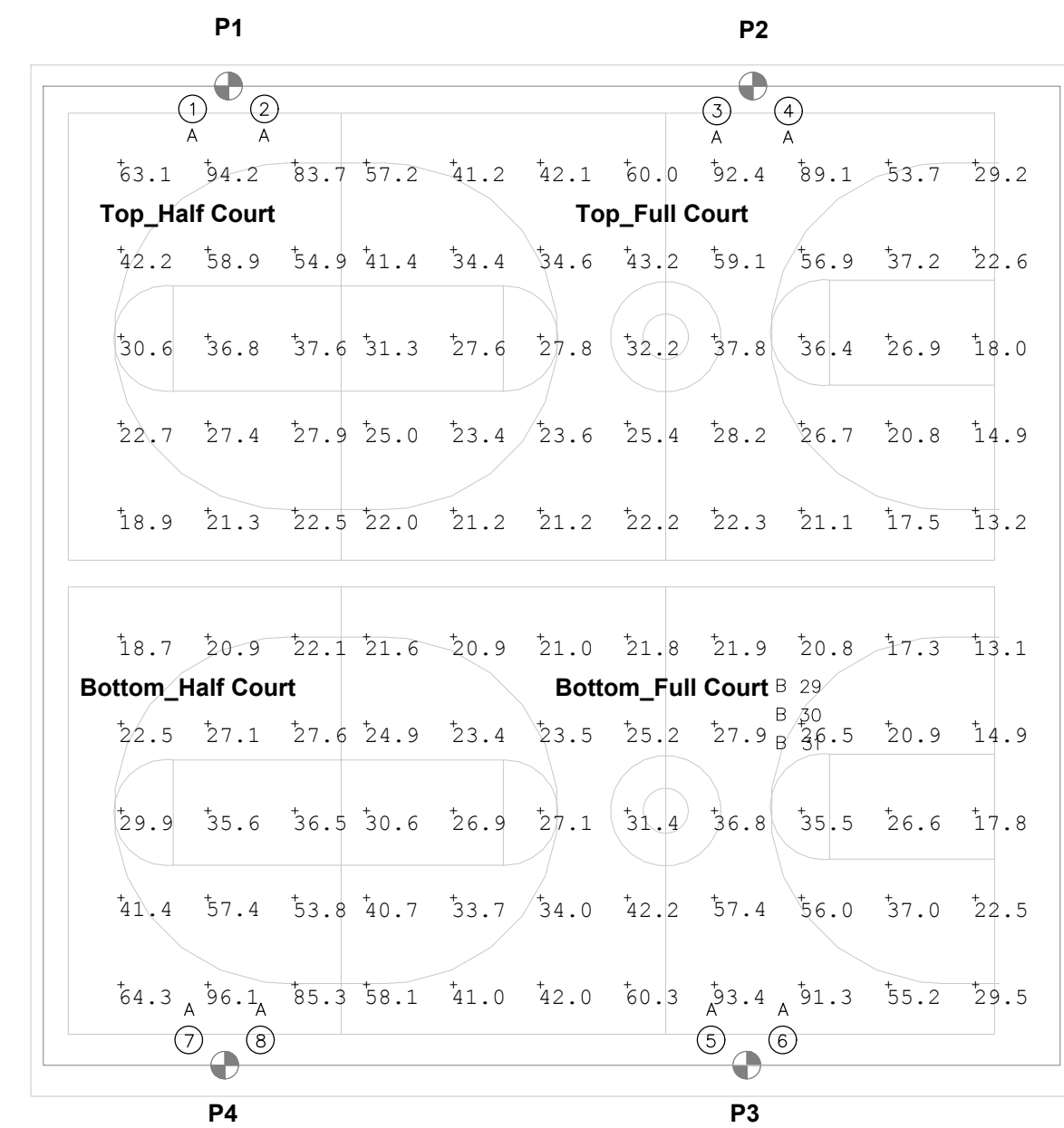
- THIS LAYOUT IS BASED ON .IES FILES THAT WERE LAB TESTED OR COMPUTER GENERATED. ACTUAL RESULT MAY VARY.
- MOUNTING HEIGHTS INDICATES HEIGHT OF HEAD FROM GROUND.
- POLE ELEVATION BASED ON 29FT POLES PLUS 18IN AFG BASES FOR BASKETBALL & TENNIS.
- POLE ELEVATION BASED ON 40FT - 75FT POLES PLUS 18IN AFG BASES FOR BASEBALL.
- CALCULATION AT GRADE.

SYMBOL LEGEND

- ⊙ LUMINAIRE NUMBER
- ⊕ EXISTING POLE
- ⊖ NEW POLE
- P# POLE NUMBER
- A B LUMINAIRE TAG NUMBER

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: David Loi
PROJECT ENGINEER: David Loi
LIC. NO. E 18742
LIC. NO. E 18742
DATE: _____
AS-BUILT DRAWN BY: _____



PHOTOMETRIC SITE PLAN: TENNIS COURT
SCALE: 1 : 20

Luminaire Tag Summary

Tag	Qty
A	8

Luminaire Location Summary

LumNo	PoleNo	HW	Orient	Flt
1	P1	30	270	20
2	P1	30	270	20
3	P2	30	270	20
4	P2	30	270	20
5	P3	30	90	20
6	P3	30	90	20
7	P4	30	90	20
8	P4	30	90	20

Calculation Summary

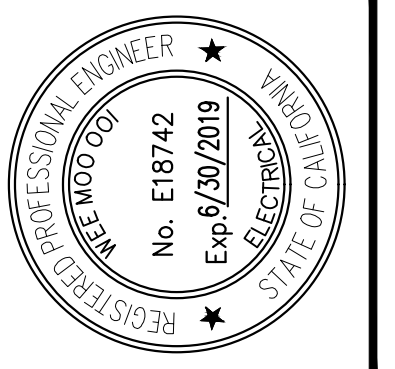
Zone	Avg (FC)	Min (FC)	Avg/Min	Max/Min
Bottom Full Court	34.3	13.1	2.6	7.1
Bottom Half Court	42.6	18.7	2.3	5.1
Top Full Court	34.5	13.2	2.6	7.0
Top Half Court	42.9	18.9	2.3	5.0

Luminaire Schedule

PoleNo	Description	Lum. Watts	Total Watts	Tag	Qty
P1	VUB-3-T4-208L-1050-W SPORTS LIGHT SHIELD	671	1342	A	2
P2	VUB-3-T4-208L-1050-W SPORTS LIGHT SHIELD	671	1342	A	2
P3	VUB-3-T4-208L-1050-W SPORTS LIGHT SHIELD	671	1342	A	2
P4	VUB-3-T4-208L-1050-W SPORTS LIGHT SHIELD	671	1342	A	2

NOTICE TO CONTRACTOR
THE LUMINAIRES SPECIFIED ON THIS PLAN SHALL BE FACTORY EQUIPPED WITH SHIELDS/VISORS WHEN TILT BEYOND 5 DEGREES.

NOTICE TO CONTRACTOR
THE LUMINAIRES SPECIFIED ON THIS PLAN SHALL BE FACTORY-AIMED-ORIENTED ON NEW CROSS ARM. THE CONTRACTOR SHALL VALIDATE AIMING AND ORIENTATION WITH THE MANUFACTURE PRIOR TO INSTALLATION.



PROJECT NAME:
**PROP K SPORTS LIGHTING
RETROFIT: RESEDA RC**
ADDRESS:
**18411 VICTORY BLVD.
RESEDA, CA 91335**

REVISIONS:	DATE:
△	
△	
△	
△	
△	
△	

PLAN NAME:
PHOTOMETRIC SITE PLAN

DRAWN BY: DO	APPROVED BY: ----
SCALE: ---	ISSUE DATE: 1/28/2018
W.O. NO. ---	FILE NO. ---

DRAWING NO.
E4.0
SHEET 4 OF 4 SHEETS