CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Ele
AGENDA TITLE: Electrical Improvement Project at the Grape Bowl (Stadium)

MEETING DATE: July 15, 1992

PREPARED BY: Parks and Recreation Director

RECOMMENDED ACTION: That the City Council approve the proposed electrical improvement project for the Lodi Grape Bowl (stadium).

BACKGROUND INFORMATION: In 1989 Hans Hansen, Assistant Utility Director, addressed a potential electrical problem at the Grape Bowl. Hansan stated that the stadium had inadequate electrical service and antiquated direct buried cable which made this facility 'an accident waiting to happen' meaning that whenever the facility was used under lights a complete blackout could occur. Hansen's feeling was that something should be done to correct this potential situation as soon as possible. (See Exhibiti A attached)

After reviewing these concerns the City hired HCS Engineering Inc. to evaluate the situation at the Grape Bowl and their findings supported Hansen's recommendations. This firm also addressed the amount of light at field level, and suggested that something be done to improve this situation.

The City Utility Department and I agree that we proceed with upgrading the stadium electrical system and addressing the amount of light available at field level. Our plan is to move ahead with redirecting and cleaning existing lights and fixtures and to place additional lights and fixtures removed from the Xofu Park light project midway up the light towers to guarantee us the necessary candle power at field level for our athletic activities. At the conclusion of the high school football season we would then complete the project by bringing in the necessary electrical service and replacing the direct buried cable. I am comfortable that this method, at a cost of $90,000.00 to $100,000.00, will provide us with an excellent solution and at a savings from the original engineering estimate of $130,000.00.

APPROVED. Thos. A. Peterson

THOMAS A. PETERSON
City Manager

recycled paper

FUNDING: As of the May 1992 C.I.P. expenditure report, $133,908.00 has been appropriated. (Account # 121.0-760-78)

Ron Williamson
Parks and Recreation Director

RW:mef
Bob McNatt, City Attorney

Attachment

APPROVED: _____
THOMAS A. PETERSON
City Manager

MEMORANDUM

TO: RON WILLIAMSON, PARKS & RECREATION DIRECTOR

FROM: HANS HANSEN, ASSIST. ELECTRIC UTILITY DIRECTOR

DATE: MAY 2, 1989

SUBJECT: LIGHTING AND POWER REQUIREMENTS IN STADIUM, ZUPO & ARMORY PARKS

This memorandum summarizes the major points discussed at a meting on April 27, 1989, regarding electric service for lighting systems, concession stands, etc., at Stadium, Zupo and Armory Park facilities. The meeting was attended by Ron Williamson, Parks & Recreation Director, Hans Hansen, Assist. Electric Utility Director and Mel Grandi, Electrical Engineer.

The condition of the existing high-voltage supply system was discussed. It has been known for some time that this system has deteriorated, due to age, to a point where reliability and thus continuity of service is at best questionable. The direct-buried cable concept used when this system was installed only compounds the service restoration time, in the event of a cable failure.

It is the intent to redesign and reconstruct the electric supply system to all three park facilities. The Electric Utility Department will be doing this task and has received electric lighting load data for the ultimate light level design in the three parks. This data, in connection with the electric capacity needs in concession stands, restroonis, auxiliary use receptacles, etc., will enable the Department to design a system capable of meeting all future needs as projected today.

However, during the meeting some other items of concern were discussed and should be addressed prior to design of the supply system. One such item is emergency lighting. If required, the level of safety lighting to vacate the premises in the event of a major area power interrupeion must be determined. Such an interruption would leave the area dark, should it occur during an evening event. It was also discussed to consider installation of some incandescent luminaires in order to provide 'instant' lighting in the event the normal lighting system is turned off. Please ncte that it takes approximately 15 minutes for high intensity, discharge lighting systems to relight after a turn off. This incandescent lighting could also be used for emergency lighting with a standby generator or battery source.

Other items discussed were the design of the lighting control system, the auxiliary use system and the ability to interface the existing systems into the ultimate systems in an orderly and phased manner.

Due to the current workload and the workload anticipated during the next two to three years on the Electric Utility Department's engineering staff, time is not available to do the necessary in-depth study of the above-mentioned needs. It is recommended that the Parks & Recreation Department consider retaining professional assistance to review the current systems, consider and incorporate the need of the ultimate systems, including control, emergency lighting and auxiliary use systems, and develop and design a system that permits a phased upgrading of the systems in the three park areas.

The Electric Utility Department will design a supply system meeting the needs of the above recommended review and design of the various systems within the parks. It is further recommended that if such outside assistance is selected, a meeting be scheduled early on in the process between the Electric Utility Department and the outside assistance to discuss various design limitaticns that may exist regarding voltage and phase relationship, etc.

At this time,. the. Electric Utility Department is on 'hold' regarding the design of the supply system pending your action on this recommendation. A supply system can be designed at present. However, without thorough analysis of future needs, as discussed above, such a supply system may become inadequate in the future. Please inform us as to the direction you want to proceed.

cc: Electric Utility Director
Electrical Engineer