

No. _____



UNITED INDEPENDENT SCHOOL DISTRICT AGENDA ACTION ITEM

TOPIC Discussion/Action re: Installation of Lights at all High School Campuses Sports Fields

SUBMITTED BY: Pat Campos, Bill Johnson and Ricardo Molina **OF:** Board Members

APPROVED FOR TRANSMITTAL TO SCHOOL BOARD: _____

DATE ASSIGNED FOR BOARD CONSIDERATION: November 18, 2009

RECOMMENDATION:

It is recommended that the United ISD Board of Trustees approve the Installation of Lights at all High School Campuses Sports Fields

RATIONALE:

BUDGETARY INFORMATION:

BOARD POLICY REFERENCE AND COMPLIANCE:



UNITED INDEPENDENT SCHOOL DISTRICT

Enrique Rangel, P.E.
Assistant Superintendent for Facilities, Construction, and Student Services

MEMORANDUM

TO: Eduardo Zuniga, Associate Superintendent for Student Support Services
FROM: Enrique Rangel, P.E.
DATE: November 5, 2009
SUBJECT: Cost Estimate for Installation of Area Flood Lighting at All High School Practice Fields

The following is a cost estimate for the installation of area lighting for 17 athletic practice fields at all high schools with two options of lighting levels:

- | | | |
|----|---|------------------------------|
| A. | OPTION 1: Initial Cost for Standard Efficiency Area Flood Lighting: | |
| | \$1,080,000. | |
| | Maintenance and Operating Cost 20-yr. life cycle: | \$1,230,000. |
| | Total 20-yr Cost for Option 1: | \$2,310,000. |
| B. | OPTION 2: Initial Cost for Energy-Efficient Area Flood Lighting: | |
| | \$1,405,000. | |
| | Maintenance and Operating Cost 20-yr. life cycle: | \$ 720,000. |
| | Total 20-yr. Cost for Option 2: | \$2,125,000. |
| C. | | Additional Cost for Lighting |
| | LBJ High School tennis courts: | \$ 55,000. |

My recommendation is that we install at all sports practice fields a high energy-efficiency lighting system, even though it has a 30% higher initial installation cost, because it has a 40% lower annual maintenance and operating cost. Its higher electrical consumption efficiency and lower maintenance/replacement cost would result in a total cost avoidance of \$185,000 over a twenty-year use of the facilities. We could certainly design and bid the lighting systems with both options as alternate construction cost as part of the competitive procurement process.

If you need any further information, please let me know.



**J. B. ALEXANDER
HIGH SCHOOL
"BULLDOGS"
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**L. B. JOHNSON
HIGH SCHOOL
"WOLVES"
DISTRICT
31-AAAA**

**UNITED
HIGH SCHOOL
"LONGHORNS"
DISTRICT
29-AAAAA**

**UNITED SOUTH
HIGH SCHOOL
"PANTHERS"
DISTRICT
29-AAAAA**

ATHLETIC DEPARTMENT

**BOBBY CRUZ
DIRECTOR OF ATHLETICS**

LIGHTING OF ATHLETIC FIELDS UNITED ISD

- * Each high school would require lighting for practice fields: football, softball, baseball and soccer.
 - * Total of 16 practice fields & LBJ Tennis Courts. = 17
 - * Practice and sub-varsity games would be held at the campus to alleviate with the scheduling of teams and fields. UISD Athletics is growing every year with more participants. Practice time and game sites have become an issue.
 - * Currently, we can only schedule one sub varsity game at the campus from 5:00 pm to 7:00 pm. There have been instances where the game has been called due to darkness. Lighting the fields would allow 2 freshmen or 2 junior varsity games at the campus.
 - * Current practice schedule without lights.
Baseball – 4:30 pm – 6:30 pm ALL TEAMS – FRESH & JV'S & VARSITY
Softball- 4:30 pm – 6:30 pm ALL TEAMS – JV & VARSITY
Soccer – 4:30 pm – 6:30 pm ALL TEAMS – JV & VARSITY
 - * Tentative practice schedule for teams with lights.
Football – 7:30 am Freshmen 5:00pm – 7:00 pm or 6:00 pm- 8:00 pm JV Varsity
Baseball – 4:00 pm- 6:00 pm Junior Varsity 6:00pm-8:00 pm Varsity
Softball – 4:00 pm – 6:00 pm Junior Varsity 6:00 pm-8:00 pm Varsity
Soccer – 4:00 pm – 6:00 pm Junior Varsity 6:00 pm -8:00 pm Varsity
- Practices for these sports would end by 8:30 pm.
Game nights for sub-varsity would be the exception.
- * All teams listed above share the SAC and Krueger Field. Freshmen, JV and Varsity. Lighting fields would allow sub-varsity teams to remain on campus. Giving them more time to play their games as well as not travel to SAC or Krueger Field.
 - * Lighting times may be controlled by the Facilities Department, Athletics Department, Campus Principal and Athletic Coordinators. Lights are controlled by programming time usage to start and end or manually.