

ADDENDUM NO. 2

STADIUM LIGHTING

LITTLE JOB #612-12353-02 DSA: A# 03-120337 File #56-H4

Hueneme High School

500 W. Bard Rd. Oxnard, CA 93033

September 16, 2020

LITTLE

1300 Dove Street, Suite 100 Newport Beach, CA 92660



Architect- Jay R. Tittle, C- 12965

1. PART 1 - GENERAL

- **1.1.** The following revisions and/or clarifications shall be made to the Bidding Requirements and Contract Documents. Revise and amend the Documents for the above named project in accordance with this Addendum. The bid shall reflect these addendum changes and each bidder shall make reference in their bid to this addendum.
- **1.2.** All Bidding Requirements and Contract Documents shall apply to this addendum as originally indicated in the applicable portions of the contract documents, unless otherwise modified by this addendum.
 - **1.2.1.** Addendum No. 1 issued on August 07, 2020.
- 1.3. GENERAL CLARIFICATIONS
 - **1.3.1.** None.

1.4. CHANGES TO PREVIOUS ADDENDA

- **1.4.1.** Addendum No. 1, dated August 07, 2020, Item 2.3.1:
 - **1.4.1.1.** Delete Section 26 56 68 issued with addendum 1, and replace with revised Section **26 56 68, Exterior Athletic Lighting** (attached).
- **1.4.2.** Addendum No. 1, dated August 07, 2020, Item 3.1.1.1:
 - **1.4.2.1.** Modify Item 3.1.1.1: 'Drawing G.0.1.1' to read as 'Drawing G1.1'

2. PART 2 - PROJECT MANUAL

- 2.1. CHANGES TO BIDDING/CONTRACT REQUIREMENTS
 - **2.1.1.** Document 00 21 13, Instruction to Bidders Modify as follows:
 - **2.1.1.1.** Modify paragraph 25 to delete ".....The base bid amount only on a per school basis." And to replace with "....The total of all base bid amounts for ACHS plus HHS."
 - 2.1.1.2. Add to paragraph 25 "Bidders should take note that this single Bid combines work at ACHS plus HHS into a single Construction Project. Bidders should also be aware that this work also combines two DSA projects at ACHS for Visitor Stadium Bleachers plus Stadium Lighting along with two DSA projects at HHS for Home Stadium Bleachers plus Stadium Lighting. Bidders are also directed to acknowledge on the Bid Form receipt of all Addendum received for all for DSA projects on the two campuses."
 - **2.1.2.** Document 00 41 13, Bid Form and Proposal Modify as follows:
 - **2.1.2.1.** Delete document 00 41 13 originally issued, and replace with revised document **00 41 13**, **Revised Bid Form & proposal** (attached).

PART 3 - DRAWINGS

- 3.1. ELECTRICAL DRAWINGS ISSUED
 - **3.1.1.** The following Addendum ("AD") Drawings, marked Delta 2, are issued:
 - **3.1.1.1.** Drawing ED-200: Revise currently issued Drawing per AD2-E1.
 - **3.1.1.2.** Drawing E-200: Revise currently issued Drawing per AD2-E2.

END OF ADDENDUM NO. 2

Enclosures:

- I) New Project Manual Documents Issued:
 - a) Document 00 41 13
 - b) Section 26 56 68
- II) Drawings Issued:
 - a) Drawings AD1-E1 and AD1-E2, Delta 2.

DOCUMENT 00 41 13

REVISED BID FORM AND PROPOSAL

Bidde	r acknowledges and agrees that the Base Bid accounts for any and all costs.			
BASE	dollars \$			
	FO CAMARILLO HS & HUENEME HS Stadium Bleachers, Lighting & Sound m (ACHS "visitors" bleachers and HHS "home' bleachers):			
followi	. 635 ("Project" or "Contract") and will accept in full payment for that Work the ng total lump sum amount, all taxes included:			
includi agrees and fu	idersigned declares that Bidder has read and understands the Contract Documents, ing, without limitation, the Notice to Bidders and the Instructions to Bidders, and and proposes to furnish all necessary labor, materials, and equipment to perform rnish all work in accordance with the terms and conditions of the Contract nents, including, without limitation, the Drawings and Specifications of			
From:	(Proper Name of Bidder)			
To:	Governing Board of the Oxnard Union High School District ("District" or "Owner")			

- A. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
- B. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
- C. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.
- D. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.
- E. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.
- F. The following documents are attached hereto:

BID NUMBER 635 ACHS & HHS Stadium Bleachers, Lighting & Sound System OXNARD UNION HIGH SCHOOL DISTRICT GENERAL CONDITIONS Revised 9-15-2020

- Bid Bond on the District's form or other security
- Designated Subcontractors List
- Site Visit Certification
- Non-Collusion Declaration
- Iran Contracting Act Certification (for bids of \$1 million or more)
- G. Receipt and acceptance of the following Addenda is hereby acknowledged for **ACHS**:

No, Dated	No, Dated
No, Dated	No, Dated
No, Dated	No, Dated

H. Receipt and acceptance of the following Addenda is hereby acknowledged for **HHS**:

No, Dated	No, Dated
No, Dated	No, Dated
No, Dated	No, Dated

- I. Bidder acknowledges that the license required for performance of the Work is: A or B
- J. Bidder hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
- K. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.
- L. Bidder hereby certifies that its bid includes sufficient funds to permit Bidder to comply with all local or state labor laws or regulations during the Project, including payment of prevailing wage, and that Bidder will comply with the provisions of Labor Code section 2810(d) if awarded the Contract
- M. Bidder agrees to comply with all requirements of the Project Labor Agreement.
- N. Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions

- existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.
- O. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.
- P. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Gov. Code, § 12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.
- Q. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the Contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this	day of			
Name of Bidder:				
Type of Organization:				
Signed by:				
Title of Signer:				
Address of Bidder:				
Taxpayer Identification No.	of Bidder:			
Telephone Number:				
E-mail:				
Contractor's License No(s):	No.:	_ Class:	Expiration Date:	
	No.:	_ Class:	Expiration Date:	
	No.:	_ Class:	Expiration Date:	
Public Works Contractor Reg	gistration No.:			

END OF DOCUMENT

BID NUMBER 635 ACHS & HHS Stadium Bleachers, Lighting & Sound System OXNARD UNION HIGH SCHOOL DISTRICT GENERAL CONDITIONS Revised 9-15-2020

LIGHTING SPECIFICATION PREPARED FOR

Port Hueneme

Football Field Lighting Project Port Hueneme, CA Sept. 9, 2020

Project # BMA12259

SUBMITTED BY:

Musco Sports Lighting, LLC

2107 Stewart Road PO Box 260 Muscatine, Iowa 52761 Local Phone: 563/263-2281 Toll Free: 800/756-1205

Fax: 800/374-6402



SECTION 26 56 68 – EXTERIOR ATHLETIC LIGHTING

Lighting System with LED Light Source

PART 1 – GENERAL

1.1 SUMMARY

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the lighting system performance and design standards for Port Hueneme Football and Track using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.
- C. The sports lighting will be for the following venues:
 - 1. Football
 - 2. Soccer
 - 3. Track
- D. The primary goals of this sports lighting project are:
 - 1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore light levels are guaranteed to not drop below specified target values for a period of 25 years.
 - 2. Environmental Light Control: It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators and neighbors.
 - 3. Cost of Ownership: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
 - 4. Control and Monitoring: To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system. Fields should be proactively monitored to detect luminaire outages over a 25-year life cycle. All communication and monitoring costs for 25-year period shall be included in the bid.

1.2 LIGHTING PERFORMANCE

A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below. Appropriate light loss factors shall be applied and submitted for the basis of design. Average illumination level shall be measured in accordance with the IESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not to drop below desired target values in accordance to IES RP-6-15, Page 2, Maintained Average Illuminance and shall be guaranteed for the full warranty period.

Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Football	50 fc	2:1	72	30' x 30'
Soccer	50 fc	2:1	84	30' x 30'
Track	20 fc	9:1	46	30' x 30'

- B. Color: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.
- C. Mounting Heights: To ensure proper aiming angles for reduced glare and to provide better playability, minimum mounting heights shall be as described below. Higher mounting heights may

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be required based on photometric report and ability to ensure the top of the field angle is a minimum of 10 degrees below horizontal.

# of Poles	Pole Designation	Pole Height
4	F1, F3-F4, F6	80'
1	F2	90'
1	F5	100'

1.3 ENVIRONMENTAL LIGHT CONTROL

- A. Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.
- B. Spill Light and Glare Control: To minimize impact on adjacent properties, spill light and candela values must not exceed the following levels taken at 3 feet above grade.

	Maximum
Residential Spill Horizontal Footcandles	0.05 fc
Residential Spill Max Vertical Footcandles	0.09 fc
Residential Spill Max Candela	3,459 cd

- C. Spill Scans: Spill scans must be submitted indicating the amount of horizontal and vertical footcandles along the specified lines. Light levels shall be taken at 30-foot intervals along the boundary line. Readings shall be taken with the meter orientation at both horizontal and aimed towards the most intense bank of lights. Illumination level shall be measured in accordance with the IESNA LM-5-04 after 1 hour warm up.
- D. The first page of a photometric report for all luminaire types proposed showing horizontal and vertical axial candle power shall be provided to demonstrate the capability of achieving the specified performance. Reports shall be certified by a qualified testing laboratory with a minimum of five years experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

1.4 Cost of Ownership

A. Manufacturer shall submit a 25 year Cost of Ownership summary that includes energy consumption, anticipated maintenance costs, and control costs. All costs associated with faulty luminaire replacement - equipment rentals, removal and installation labor, and shipping - are to be included in the maintenance costs.

PART 2 - PRODUCT

2.2 SPORTS LIGHTING SYSTEM CONSTRUCTION

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.
- B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection

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against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.

- C. System Description: Lighting system shall consist of the following:
 - Galvanized steel poles and cross-arm assembly.
 - 2. Non-approved pole technology:
 - a. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long term performance concerns.
 - 3. Lighting systems shall use concrete foundations. See Section 2.4 for details.
 - a. For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early pole erection, actual required minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.
 - b. For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-inforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.
 - 4. Manufacturer will supply all drivers and supporting electrical equipment
 - a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Integral drivers are not allowed. If allowed, integral drivers mounted at the top of the pole will require a pole mounted enclosure approximately 10 feet above grade. The enclosure shall include a disconnect per circuit, individual luminaire fusing, and surge protection. The pole shall include steps, cables, and platforms for luminaire maintenance, if owner responsible for removal of faulty luminaires.
 - b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
 - 5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
 - 6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
 - Control cabinet to provide remote on-off control, and monitoring. See Section 2.3 for further details.
 - 8. Contactor cabinet to provide on-off control.
 - 9. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.
 - a. Integrated grounding via concrete encased electrode grounding system.
 - b. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.
 - 10. Enhanced corrosion protection package: Due to the potentially corrosive environment for this

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project, manufacturers must provide documentation that their products meet the following enhanced requirements in addition to the standard durability protection specified above:

- a) Exposed carbon steel horizontal surfaces on the crossarm assembly shall be galvanized to no less than a five (5) mil average thickness.
- b) Exposed die cast aluminum components shall be Type II anodized per MIL-STD-8625 and coated with high performance polyester.
- c) Exposed extruded aluminum components shall be Type II anodized per MIL-STD-8625 and coated with high performance polyester.
- D. Safety: All system components shall be UL listed for the appropriate application.

2.2 ELECTRICAL

- A. Electric Power Requirements for the Sports Lighting Equipment:
 - 1. Electric power: 480 Volt, 3 Phase
 - 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- B. Energy Consumption: The kW consumption for the field lighting system shall be 59.28 kW.

2.3 CONTROL

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.
- C. Dimming: System shall provide for 3-stage dimming (high-medium-low). Dimming will be set via scheduling options (Website, app, phone, fax, email).
- D. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute "early off" commands by phone. Scheduling tool shall be capable of setting curfew limits.

Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

- E. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).
- F. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices.

Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.

- 1. Cumulative hours: shall be tracked to show the total hours used by the facility
- 2. Report hours saved by using early off and push buttons by users.
- G. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 25 years.

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H. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.4 STRUCTURAL PARAMETERS

- A. Wind Loads: Wind loads shall be based on the 2019 California Building Code. Wind loads to be calculated using ASCE 7-10, a design wind speed of 95 mi/h, exposure category C and wind importance factor of 1.0.
- B. Pole Structural Design: The stress analysis and safety factor of the poles shall conform to 2009 AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (LTS-5).
- C. Foundation Design: The foundation design shall be based on soil parameters as outlined in the geotechnical report by Earth Systems Pacific on 10/28/19.

PART 3 – EXECUTION

3.1 SOIL QUALITY CONTROL

- A. It shall be the Contractor's responsibility to notify the Owner if soil conditions exist other than those on which the foundation design is based, or if the soil cannot be readily excavated. Contractor may issue a change order request / estimate for the Owner's approval / payment for additional costs associated with:
 - 1. Providing engineered foundation embedment design by a registered engineer in the State of California for soils other than specified soil conditions;
 - 2. Additional materials required to achieve alternate foundation;
 - 3. Excavation and removal of materials other than normal soils, such as rock, caliche, etc.

3.2 DELIVERY TIMING

A. Delivery Timing Equipment On-Site: The equipment must be on-site 6-8 weeks (up to 12 weeks if seam-weld inspections required) from receipt of approved submittals and receipt of complete order information.

3.3 FIELD QUALITY CONTROL

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Field Light Level Accountability
 - 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 25 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
 - 2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of commissioning of the lighting.
 - 3. The contractor/manufacturer will be held responsible for any and all changes needed to bring these fields back to compliance for light levels and uniformities. Contractor/Manufacturer will be held responsible for any damage to the fields during these repairs.
- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles and uniformity ratios are not in conformance with the

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requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.4 WARRANTY AND GUARANTEE

- A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.
- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.

PART 4 - DESIGN APPROVAL

4.0 PRE-BID SUBMITTAL REQUIREMENTS (Non-Musco)

- A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.0.B from all the manufacturers to ensure compliance to the specification 10 days prior to bid. If the design meets the design requirements of the specifications, a letter and/or addendum will be issued to the manufacturer indicating approval for the specific design submitted.
- B. Approved Product: Musco's Light-Structure System[™] with TLC for LED[™] is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 10 days prior to bid. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid listing any other approved lighting manufacturers and designs.
- C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 10 days prior to bid. An addendum will be issued prior to bid; listing approved lighting manufacturers and the design method to be used.
- D. Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative. Bids received that do not utilize an approved system/design, will be rejected.

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REQUIRED SUBMITTAL INFORMATION FOR ALL MANUFACTURERS (NOT PRE-APPROVED) 10 DAYS PRIOR TO BID

All items listed below are mandatory, shall comply with the specification and be submitted according to pre-bid submittal requirements. Complete the Yes/No column to indicate compliance (Y) or noncompliance (N) for each item. **Submit checklist below with submittal.**

Yes/ No	Tab	Item	Description
	A	Letter/ Checklist	Listing of all information being submitted must be included on the table of contents. List the name of the manufacturer's local representative and his/her phone number. Signed submittal checklist to be included.
	В	Equipment Layout	Drawing(s) showing field layouts with pole locations
	С	On Field Lighting Design	 Lighting design drawing(s) showing: a. Field Name, date, file number, prepared by b. Outline of field(s) being lighted, as well as pole locations referenced to the center of the field (x & y), Illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, horizontal and vertical aiming angles, as well as luminaire information including wattage, lumens and optics d. Height of light test meter above field surface. e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance (CV), coefficient of utilization (CU) uniformity gradient; number of luminaries, total kilowatts, average tilt factor; light loss factor.
	D	Off Field Lighting Design	Lighting design drawing showing initial spill light levels along the boundary line (defined on bid drawings) in footcandles. Lighting design showing glare along the boundary line in candela. Light levels shall be taken at 30-foot intervals along the boundary line. Readings shall be taken with the meter orientation at both horizontal and aimed towards the most intense bank of lights.
	Е	Photometric Report	Provide first page of photometric report for all luminaire types being proposed showing candela tabulations as defined by IESNA Publication LM-35-02. Photometric data shall be certified by laboratory with current National Voluntary Laboratory Accreditation Program or an independent testing facility with over 5 years experience.
	F	Performance Guarantee	Provide performance guarantee including a written commitment to undertake all corrections required to meet the performance requirements noted in these specifications at no expense to the owner. Light levels must be guaranteed to not fall below target levels for warranty period.
	G	Structural Calculations	Pole structural calculations and foundation design showing foundation shape, depth backfill requirements, rebar and anchor bolts (if required). Pole base reaction forces shall be shown on the foundation drawing along with soil bearing pressures. Design must be stamped by a structural engineer in the state of California, if required by owner.
	н	Control & Monitoring System	Manufacturer of the control and monitoring system shall provide written definition and schematics for automated control system. They will also provide ten (10) references of customers currently using proposed system in the state of California.
	I	Electrical Distribution Plans	Manufacturer bidding an alternate product must include a revised electrical distribution plan including changes to service entrance, panels and wire sizing, signed by a licensed Electrical Engineer in the state of California.
	J	Warranty	Provide written warranty information including all terms and conditions. Provide ten (10) references of customers currently under specified warranty in the state of California.
	К	Project References	Manufacturer to provide a list of ten (10) projects where the technology and specific fixture proposed for this project has been installed in the state of California. Reference list will include project name, project city, installation date, and if requested, contact name and contact phone number.
	L	Product Information	Complete bill of material and current brochures/cut sheets for all product being provided.
	M	Delivery	Manufacturer shall supply an expected delivery timeframe from receipt of approved submittals and complete order information.

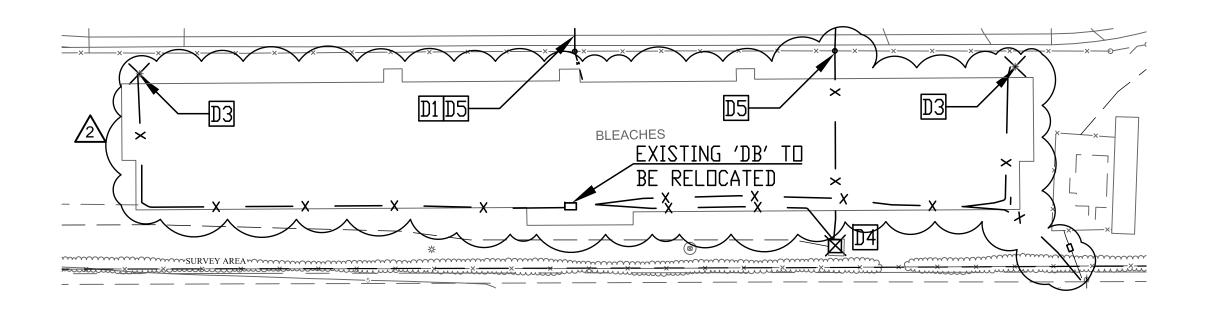
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N	Non- Compliance	Manufacturer shall list all items that do not comply with the specifications. If in full compliance, tab may be omitted.
0	Cost of Ownership	Document cost of ownership as defined in the specification. Identify energy costs for operating the luminaires. Maintenance cost for the system must be included. All costs should be based on 25 Years

The information supplied herein shall be used for the purpose of complying with the specifications for Port Hueneme. By signing below I agree that all requirements of the specifications have been met and that the manufacturer will be responsible for any future costs incurred to bring their equipment into compliance for all items not meeting specifications and not listed in the Non-Compliance section.

Manufacturer:	Signature:
Contact Name:	Date:/
Contractor:	Signature:

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ENLARGED ELECTRICAL SITE PLAN - TRACK & FIELD | SCALE: 1/32"=1"-0" 1

DEMOLITION PLAN KEYED NOTES (NOT ALL MAY APPLY)

- D1 ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION AND SIZING OF EXISTING JUNCTION BOXES, CONDUITS, AND CONDUCTORS, PRIOR REMOVING AND DEMOLISHING FROM EXISTING AREA.
- DS EXISTING LIGHT POLE TO BE RETROFITTED WITH LED. EXISTING STADIUM LIGHT FIXTURE AND SPEAKERS TO BE REMOVED, CAP ALL THE EXISTING WIRES AND CONNECTIONS FOR THE NEW RETROFITTED FIXTURES AND SPEAKERS. CONTRACTOR SHALL DELIVER REMOVE ITEMS TO DISTRICT.
- D3 EXISTING LIGHT POLE TO BE REMOVED FROM EXISTING LOCATION AND CONDUITS/CONDUCTORS TO BE STUBBED OUT FOR NEW WORK.
- EXISTING PULL BOXES #7 & #8 TO BE REMOVED.

D6

EXISTING CONDUITS AND CONDUCTORS TO BE REROUTED AND EXTENDED AS NEEDED PER NEW









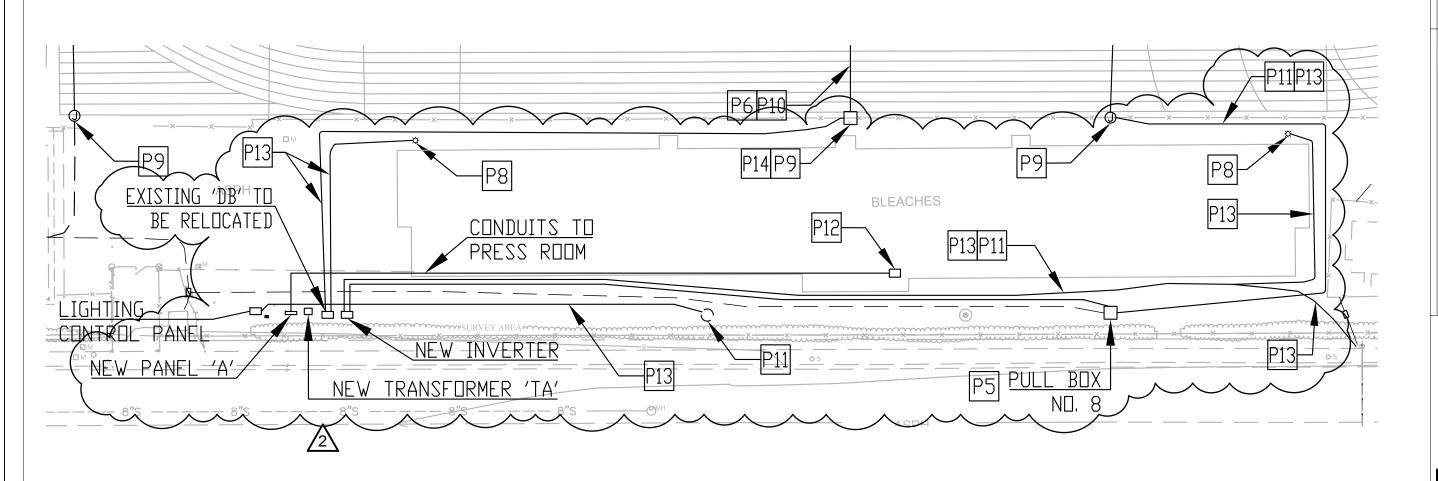
ISSUE DATE 09/04/2020

CT NAME
HUENEME HIGH SCHOOL
STADIUM LIGHTING
500 W. BARD RD,
OXNARD, CA 93033

AD2-I

ENLARGED ELECTRICAL DEMO SITE PLAN - TRACK & FIELD

DEMO PLAN NOTES SCALE: NONE



ENLARGED ELECTRICAL SITE PLAN - TRACK & FIELD | SCALE: 1/32"=1"-0" 1

POWER PLAN KEYED NOTES (NOT ALL MAY APPLY)

- P1 (2) 1"C. 5#8+1#8GND THWN CU +2" CONDUIT FOR TELELCOM./FIBER USE TO NEAREST POWER PANEL. CONDUITS SHALL BE BURIED 24" BELOW GRADE ENCASED IN CONCRETE. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND CONDUITS TO BE USED OR INTERCEPTED TO CLOSEST POWER PANEL, IF POSSIBLE, PRIOR BID/CONSTRUCTION.
- P2 NEW JUNCTION BOXES (24"X36") FOR POWER/TV/DATA/PA TO BE INSTALLED BELOW GRADE DUTDOOR RATED WITH RUBBERIZED TRACK SURFACE MATCHING EXISTING TYPE AND COLOR OF THE TRACK, CONTRACTOR SHALL VERIFY DISTRICT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (2) 1'C-3#8+1#8GND THWN CU +2' CONDUIT FOR SCOREBOARD COMMUNICATION USE, TO NEAREST POWER PANEL. CONDUITS SHALL BE BURIED 24' BELOW GRADE ENCASED IN CONCRETE.
- P4 (2) 1°C-5#8+1#8GND THWN CU +2° FIBER BETWEEN JUNCTION BOXES. CONDUITS SHALL BE BURIED 24° BELOW GRADE. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND CONDUITS TO BE USED OR INTERCEPTED, IF POSSIBLE, PRIOR BID/CONSTRUCTION.
- NEW PULL BOXES (24"X36") SHALL BE INSTALLED TO REPLACE PULL BOXES #7 & #8. PULL BOXES SHALL BE BURIED 24" BELOW GRADE ENCASED IN CONCRETE

- NEW CONDUCTORS/CONDUITS TO BE BURIED 24' BELOW GRADE ENCASED IN CONCRETE, SIZING AND QUANTITIES OF NEW CONDUITS AND CONDUCTORS SHALL BE VERIFIED BASED UPON EXISTING.
- P7 NOT USED.
- AT EXISTING LIGHT POLES, REMOVE ALL STADIUM LIGHT FIXTURES AND SPEAKERS, CAP ALL THE P8 WIRES AND CONNECTIONS. DELIVER REMOVED FIXTURES AND SPEAKERS TO DISTRICT.
- P9 INTERCEPT NEW CONDUITS AND CONDUCTORS WITH EXISTING CONDUCTORS AND CONDUITS.
- CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZING, AND QUANTITIES OF PREEXISTING P10 CONDUCTORS/CONDUITS TO PROCEED INSTALLATION OF NEW CONDUITS/CONDUCTORS.
- PROVIDE 1-1/2' CONDUIT FOR AV SYSTEM POWER AND LOW VOLTAGE WIRES. FUTURE MAIN AV EQUIPMENT IS LOCATED IN THE PRESS ROOM AND FUTURE SPEAKERS ON LIGHTING POLE.
- P12 FUTURE AV EQUIPMENT AND ISOLATION TRANSFORMER/UPS LOCATED IN THE PRESS ROOM.
- P13 EXISTING CONDUITS AND CONDUCTORS TO BE REPOUTED AND EXTENDED AS NEEDED.
 - PROVIDE NEW BELOW GRADE PULL BOX (24"x24"x24") WITH OUTDOOR RATED RUBBERIZED TRACK SURFACE MATCHING EXISTING TYPE AND COLOR OF THE TRACK, CONTRACTOR SHALL VERIFY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

POWER PLAN NOTES | SCALE: NONE





