

Project: 4j Kelly MS Track and Field Project 2014 (1415)

CIP No. 410.524.019

Date: May 28, 2014

To: Interested Bidders

Prepared by: Curt Wilson, AIA

This Addendum modifies the Project Manual, Specifications, and Drawings as follows:

1-1-0 General Information

1-1-1 The Mandatory Pre Bid Meeting was conducted on 05.27.2014. Attached to this addenda is the attendance Sign In Sheet.

1-2-0 Changes to the Project Manual

1-2-1 Section 00 0110 - TABLE OF CONTENTS

1. Delete the following:
 - a. 06 4100 - Architectural Wood Casework

1-2-2 Add the following Specification Sections

1. 26 0500 - General Electrical Provisions
2. 26 0533 - Basic Materials and Methods
3. 26 5668 - Field Lighting

1-3-0 Changes to the Drawings

1-3-1 None

1-4-0 Substitution Approvals

1-4-1 None

End of Addendum # 1

Attachments:

Pre-Bid Meeting Sign in Sheet

Sign-In Sheet:

MANDATORY PRE-BID WALK THRU

Kelly Middle School Track & Field 2014

CIP No. 410.524.019

Tuesday, May 27, 2014 @ 2:00 pm

Name	Company	Address	Phone and FAX and e-mail
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Scott Lenker	Reynolds Electric	2175 W. 2nd Ave. Eugene, OR 97402	541-343-7297 fax 503-288-4101 scott@reynoldselectric.com
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Aaron Durbin	Durbin Excavating	30020 Kaiser Eugene, OR 97402	541-688-3970 Durbinexcavating@comcast.net
Dennis Postma	Knife River	1001 Division Ave. Eugene OR 97404	541-689-6600 fax 541-689-6605 dennis.postma@kniferiver.com
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Rick Hardin	Renegade Sports Surfacing	P.O. Box 230704 Portland OR 97281	503-443-4714, cell 503-443-4794 rick@renegadeinc.net
Troy Curtis	Brown Contracting	29534 Airport Rd. Eugene OR 97402	541-338-9345 fax 541-338-9346 sean@browncontracting.net

**SECTION 26 05 00
GENERAL ELECTRICAL PROVISIONS**

PART 1 - GENERAL

1.01 CONTRACT DOCUMENTS

- A. The Instructions to Bidders, Conditions of the Contract, and General Requirements are a part of this specification and apply to work in this Division.

1.02 WORK INCLUDED

- A. Furnish and install complete and satisfactory operating electrical systems as shown or specified.
- B. All labor, materials, equipment and services to construct and install these complete systems with the functions and provisions specified or shown.

1.03 PERMITS

- A. Secure and pay for all necessary permits beyond those outlined in the General Conditions, arrange for all required inspections, and deliver a Certificate of Final Inspection to the Owner upon completion of the work.

1.04 CODES AND STANDARDS

- A. Comply with National, State and any local electrical codes, safety orders, ordinances, applicable building codes and requirements of the serving utility.
- B. Materials and equipment shall, where rated, bear the seal of approval of the NFPA, UL and conform to applicable ANSI, NEC, NEMA, OSHA, and other recognized standards.

1.05 MATERIAL AND EQUIPMENT

- A. All material shall be new, of specified quality, and a standard product of a reputable manufacturer. All materials of a kind shall be by one manufacturer.

1.06 SUBSTITUTIONS

- A. Equal material of other manufacturer may be used following Architect's approval of a written request submitted at least seven (7) calendar days prior to bid date.

1.07 SHOP DRAWINGS

- A. Submit six (6) copies minimum in accordance with General Conditions. Submit typewritten list of manufacturer and catalog number for wiring devices and lamps. Submit manufacturer's catalog data, marked to indicate specific equipment proposed, for all other equipment items.
- B. Where specifically indicated, submit shop drawings and/or wiring diagrams. Refer to individual sections for detailed requirements.

1.08 RECORD DOCUMENTS

- A. Maintain one (1) copy of all Drawings at the site, in good order, marked to record all changes made during construction. Dimension exact location of feeders and stub-outs for future, even if no change from Drawings was made. Transfer these changes and dimensions to clean set blueprints and deliver to Architect upon completion of work.

1.09 GUARANTEE

- A. Warranty all work, materials and equipment for one year after date of Substantial Completion or first beneficial use. Additional warranties may be required where listed in subsequent sections.

1.10 SAFETY

- A. Coordinate all startup and shutdowns of systems with Owner to ensure safety of occupants.

END OF SECTION

**SECTION 26 05 33
BASIC MATERIALS AND METHODS**

PART 1 - GENERAL

1.01 RACEWAYS

- A. Run all wiring in raceways unless otherwise noted. Conceal where construction permits.

1.02 WIRE AND CABLE

- A. Provide new wiring as indicated on Drawings.

1.03 BOXES

- A. Provide boxes where required to terminate, tap off, facilitate conductor installation, or mount device.

PART 2 - PRODUCTS

2.01 RACEWAYS

- A. Electrical Metallic Tubing (EMT): Use concealed above grade or exposed indoors where not subject to physical damage. Fittings: Compression type or indenter type water or concrete tight where appropriate.
- B. Schedule 40 PVC: Use for exterior underground installation. Utilize rigid steel elbows and risers.
- C. Rigid Steel Conduit (RSC): Use below grade or outdoors above grade and where subject to physical damage. Where exposed to weather, provide PVC coating. Fittings: Threaded type.
- D. Flexible Metal Conduit (FMC) or Liquid-Tight Flexible Metal Conduit (LFMC): Use for connection to adjustable or vibrating equipment. Provide suitable grounding means. Connectors: Malleable iron, clamp type, factory insulated throats.
- E. Connectors shall have insulated throats.

2.02 WIRE AND CABLE

- A. Copper, #12 minimum, copper, unless otherwise noted or approved.
- B. Insulation: 600 volt rated, minimum. #10 and smaller, type THHN stranded. #8 and larger, type THW stranded.
- C. Conductors shall be color coded to identify phase connections.

2.03 BOXES

- A. Size for number of entering conduits and devices installed. Sherardized or galvanized steel. Box cover and ring as required to suit wall material and devices.
- B. Indoors: Sheet metal. Outdoors: Cast steel with corrosion resistant finish.

PART 3 - EXECUTION

3.01 RACEWAYS

- A. Support raceways in an approved manner. 1) Single runs: One or two hole straps, properly secured to structure. 2) Multiple runs: Standard framing channels and pipe clamps.

3.02 WIRE AND CABLE

- A. No splices or taps permitted in service or feeder circuits. Splices or taps in branch circuits permitted only in junction boxes.

3.03 BOXES

- A. Identify each junction box with system description and circuits installed by neat hand lettering inked on inside of cover.
- B. Secure boxes to structure or blocking or mounting on manufactured bar hangers.

END OF SECTION

**SECTION 26 56 68
FIELD LIGHTING**

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. This Section includes supply and installation of luminaires, crossarms, supports, accessories and conductors.

1.02 COORDINATION

- A. Provide point-by-point calculations and a letter guaranteeing compliance to light level specifications to Architect before ordering light fixtures. Confirm compatibility and interface of other materials with luminaire and pole. Report discrepancies to the Architect, and defer ordering until clarified.

1.03 GUARANTEED LIGHT LEVELS

- A. The average maintained light level shall be 30 footcandles on the playing field.
- B. The light loss factor used to calculate the maintained light level shall be no greater than a maintenance factor of 0.8 multiplied by the lamp tilt factor.
- C. The uniformity ratio on the playing field shall not exceed 2.0/1 maximum to minimum.
- D. Measured average illumination level shall be +/- 10% of predicted mean in accordance with IESNA RP-6-01. Light levels shall meet or exceed specified levels for the entire 5000 hour lamp life.
- E. Lighting calculations shall be developed and field measurements taken on a grid spacing not greater than 30' by 30'.
- F. Spill light shall not exceed 0.25 footcandles (horizontal) on a line from the boundary of each field, and the test shall be done every 30' along the line with the field lights on.

1.4 WARRANTY

- A. At completion of the project field, verified light levels shall be taken. If actual performance levels including footcandles and uniformity ratios do not meet specified criteria, the manufacturer/contractor shall, at its expense, provide and install any necessary additional fixtures to meet the minimum lighting standards.
- B. Provide 25 year non pro-rated materials and labor warranty guaranteeing replacement of lamps, fixtures and ballasts which fail due to manufacturing defects or improper installation.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Musco Sports Lighting, to match existing.

2.02 FLOODLIGHT LUMINAIRES

- A. The floodlight shall be UL listed suitable for wet locations.
- B. The housing shall be aluminum with a corrosion resistant finish.
- C. Maintenance access shall not affect aiming of the floodlight.
- D. Reflectors shall direct stray light to target areas.
- E. Provide glare control to shield all of the light sources from adjacent properties, sites, and neighboring communities and to comply with the local ordinances on glare control.

2.03 BALLASTS

- A. Remote all ballasts and supporting electrical equipment in aluminum enclosures mounted approximately 10' above grade. The enclosures shall include ballast, capacitor and fusing for each luminaire. Safety disconnect per circuit for each pole structure will be located in the enclosure.
- B. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble free installation.

2.04 POLE

- A. Black finish.
- B. Mount crossarms, lamps and fixtures on new poles.

2.05 CROSSARMS

- A. New cross arm assemblies and fastening/anchorage devices to be hot dip galvanized, black color.

2.06 CONTROLS

- A. Provide wireless operating control for remote on/off of the field lights. System shall be compatible with the District's existing "Control Link" systems installed at the football facilities.
- B. Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The manufacturer shall notify the Owner of outages within 24 hours, or the next business day. The controller shall determine switch position (manual or auto) and contactor status (open or closed). The controller shall operate (on/off) each pole independently in both manual and auto.
- C. Remote Lighting Control System: System shall include lighting contactors, the contactor shall be wired to have auto delay, each pole. System shall allow Owners and users with a security code to schedule on/off system operation via a web site, phone, 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.

PART 3 - EXECUTION

3.01 COORDINATION

- A. Refer to Field Lighting Plan for locations of existing facilities.

3.02 SUPPORT

- A. The pole assembly, crossarm, and reflector shall be attached withstand a wind velocity of 100 mph times a gust factor of 1.3 without misalignment of any luminaire and without any damage to the crossarm or its components. Luminaires shall be attached to the crossarm by a heavy-gauge steel trunion with a corrosion resistant coating.

3.03 CLEAN-UP

- A. At time of acceptance, playing field and surrounding area shall be free of debris and show no sign of physical damage.

3.04 LAMP REPLACEMENT

- A. Manufacturer shall include one group lamp replacement to be completed at end of the 5000 hours of operation. Manufacturer shall warrant the system to meet designed light levels upon completion of this relamp.

3.05 PREVENTATIVE AND SPOT MAINTENANCE:

- A. Manufacturer shall provide all preventative and spot maintenance, including parts and labor for 25 years from the date of equipment delivery. Individual lamp outages shall be repaired when more than 10% of the lamps are out on any one field, or when lamp outages materially impact the usage of any field. Owner agrees to check fuses in the event of a fixture outage.

3.05 LIFE CYCLE SAVINGS:

- A. Energy Consumption: Based on a 5000 hour operating cycle, the average KWh consumption for the lighting systems shall be 50 KW or less.

END OF SECTION