



USD 261 Service Center

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B.J. Knudson
Executive Director of
Operations

TO: Haysville Board of Education

FR: B.J. Knudson, Executive Director of Operations

DA: September 21, 2015

RE: Request to seek bids for practice fields/playgrounds

History/Relevance: Historically Haysville West Middle School football and soccer teams have practiced on the old football and soccer fields to the south of Haysville West Middle School. Starting in the Spring of 2016, those fields will no longer be available to those teams due to the construction of the new HHS/Tri-City School.

What: We are asking for approval to seek bids for 2 athletic practice fields/playgrounds between Prairie Elementary and HWMS tennis courts.

Why: We are needing additional fields for soccer and football to practice on next year. We are also going to open up this area for recess for the students at Prairie elementary.

Where: The grass field areas to the West of Prairie Elementary and to the East of the tennis courts at HWMS.

When: We would like to send out bid information on September 22, 2015 and have bids returned to us on October 9th, 2015.

Who: The development of this project included the Assistant Superintendent for Business and Finance, Executive Director of Operations, Facilities Director as well as the Head grounds keeper.

How Much: The cost for seeking bids is zero dollars. We anticipate the cost of the project to be around \$450,000.

If you have any questions, please do not hesitate to contact me.

bjk

September 22, 2015

To Whom It May Concern:

The Haysville Public School District, USD 261 is requesting sealed bids that meet or exceed the specifications listed in this document to design two practice grass playing fields west of Prairie Elementary.

Sealed bid packets including one original and three copies must be submitted no later than 11:00AM on October 9th for bid opening at the USD 261 Administration Building, 1745 W. Grand, Haysville, and Ks.

Questions regarding this bid request may be directed to USD 261 Maintenance Supervisor Freddy Robinson at 316-554-2210.

Please list your bid specifications on a separate sheet and send or deliver to:

B.J. Knudson

Executive Director of Operations

Haysville USD 261

Service Center

1745 Grand

Haysville, Ks. 67060

316-554-2210 (Phone)

316-554-2212 (Fax)

Thank you for your interest.

Bid Specifications for Haysville USD 261 New Practice Fields and Playground

Contractor qualifications

Any contractor bidding this project must meet the following qualifications:

Must maintain contractor's liability insurance and worker's compensation insurance (if required by law) and provide copies of certificates to USD 261 in the bid packet.

Must use laser or GPS controlled grading equipment, have successfully provided grading for three athletic fields, and provide three references from past athletic grading projects.

Must have installed at least one variable frequency drive controlling a submersible pump and motor and provide a reference for the project.

Must have successfully installed sub-surface drip irrigation in at least three athletic fields of at least two acres and provide references for those projects.

Must have successfully sprigged at least three athletic fields and provide references for those projects.

Must have successfully completed at least three turn-key athletic field projects including grading, irrigation, and seeding/sodding/sprigging and provide references for those projects.

Timing

The practice fields and playgrounds shall be ready for use by August 15, 2016. Bermuda grass ground coverage shall be in excess of 95%.

Bid Acceptance

USD 261 will be using several sources of information and criteria to select a winning bidder. The sources and criteria may include:

- Total cost of project
- Information provided by references regarding the contractor
- The size, scope, and level of success of contractor's past projects
- Contractor's past performance with Haysville USD 261

Grading

All existing vegetation within scope of work shall be sprayed with a Glyphosate product and Strike 3, or equivalent broadleaf weed herbicide, at sufficient rates to kill all existing vegetation. Dead vegetation shall be mowed to a height less than 6" prior to grading. Six inches of top soil shall be stripped and stockpiled. A sub-grade shall then be established 6" below final grade according to drawings. The top soil shall then be replaced on sub-grade to establish the final grade to specified elevations. All fill shall be installed in lifts of no more than 6" and wheel packed to prevent settling. Ditches in any areas that will not be irrigated do not need to be sub-graded or have topsoil replaced as long as they have a suitable surface for seeding as determined by seeding contractor. After final grade is established, a chisel or other mechanical tillage shall be used to a depth of 6" over the entire irrigated area to relieve compaction from large equipment and provide a suitable growing medium for grass. After the tillage, final grade shall be reestablished with a laser controlled speed mover to a tolerance of +/- .02' of elevations on drawings. Total weight of tractor and speed mover combined shall not exceed 10,000 pounds. There shall be no trash, rock, or any other debris in the field. All trash rock or other debris shall be hauled off site. There shall be

no chunks of soil; surface shall be ready for grass to be planted. Any excavated soil not used for the project shall be stockpiled in the NW corner of the property to be used for future projects. Stockpile shall be graded to allow for seeding and mowing. Grade shall be corrected as needed prior to sprigging from deviations caused by heavy rainfall, wind, or other acts of God. Erosion control shall be installed and maintained according to the Erosion Control Plan.

Wells and Pumps

A new irrigation well shall be added near the existing well northeast of the Haysville West Middle School football field. The new well will make a battery, according to the Kansas Department of Agriculture, Division of Water Resources definitions, with the existing well. This well shall be capable of at least 50 GPM output. The total output of the battery must not, at any time, exceed 120 GPM. The existing well will be the "Master" well, and the new well will be the "Slave" well. The motor and pump in the Master well will be actuated whenever the current or proposed irrigation systems request water. The motor in the Slave well will be controlled by a variable frequency drive (VFD) and will run as needed to maintain 70 psi. The motor and pump in the Slave well will be a submersible 5 HP, 50 GPM, 3PH, 480V. All electrical supply to the Slave motor will come from Haysville West Middle School and be in accordance with current the NEC. Drop pipe will be 2" Certa-Lok pipe, couplers, and fittings. A ¾" FPT port with a ¾" MPT plug will be provided in the system for winter blow-out. The port shall be located in such a manner that air will not pass through the water meter(s) during blow out. A suitable cable shall be installed on the new pump and motor to allow for extraction of the pump and motor if the drop pipe should fail. Two Netafim 2" WMR meters, one at each well, shall be installed in accordance with Kansas Dept of Agriculture, Division of Water Resources, regulations to meter all water discharged by both wells.

Irrigation

Sub-surface drip will be used for the irrigation. There will be no substitutions allowed for specified components. Installation practices shall be as recommended by the manufacturer of each component.

Controller:

Controller will be an outdoor, Hunter I-Core capable of running all existing conventional zones and a minimum of 20 new zones controlled with a 2 wire path. The controller will trigger the well/pump battery and fertilizer injection unit, if purchased. The I-Core controller will replace the current controller on-site. Flow monitoring shall be utilized on all new zones.

Filter station:

Filter station will consist of five, 2" Netafim Techfilters.
A pressure gauge or shreader valve will be located both before and after the filter bank.
All exposed pipe and fittings shall be Schedule 40 and pressure rated
Filter station shall be enclosed in an in-ground vault unless fertilizer injection system is chosen.
If fertilizer injection system is not chosen, a ¾" FPT port shall be added upstream of the filters to allow for fertigation.

Mainline:

The mainline will be 3" CL200 pipe and Schedule 40 fittings. All trenches will have a flat, clean bottom, free from loose soil. Any control wiring used shall be in the same trench as the mainline. Minimum depth to top of pipe is 24". Any over-excavation shall be backfilled with fill sand. All backfill will be mechanically compacted to 95%. Water settling will not be sufficient.

Valves and boxes:

Valves will be Hunter PGV-151-ASADJ angle valves.
2 wire connections will be waterproof.
All decoder modules will be single station (one module per valve).

All valve boxes will be bedded in fill sand or pea gravel, be level, and at an elevation of ½" above final grade.

A minimum clearance of 1" will be maintained between the highest point on the valve and the bottom of each valve box lid.

Each 12" x 18" Ametek valve box will contain two PGV-151-ASADJ valves.

Dripline and Manifolds

Dripline will be Netafim Techline CV, .4 GPH, 12" emitter spacing.

Dripline will be installed with a Vermeer MB40 and Vermeer RT450, specifically designed for installing sub-surface dripline.

The dripline will be buried to a consistent depth to top of dripline of 6", +/- ½".

Dripline will be spaced on 18" centers, +/- 1".

Header manifolds will be 2" CL200 PVC and flush manifolds will be 1" CL200 PVC.

Schrader valves will be installed on all supply headers and flushing assemblies to check zone pressure.

Final grade will need to be re-established after dripline installation.

Any mechanical processes on the irrigated surface after dripline installation must not damage dripline, change the final depth of the line, or create compaction of the soil.

All dripline shall be kept free from dirt and other debris entering the pipe at all times before and during construction.

Fertilizer injection system consisting of:

Liquid fertilizer tank of at least 500 gallons

¾" Netafim disc filter for fertilizer leaving the tank

115V, piston injection pump capable of delivering 1/7 lb of actual N per day per 1000 sq/ft. Fertilizer shall be pure 28% liquid nitrogen.

Fertilizer injection plumbing and backflow prevention

500 gallons of pure 28% liquid nitrogen (**NO** phosphate)

10' x 10' building with a concrete floor and 6" stem wall to house tank and filter station

Footings shall be 30" deep and 8" wide and extend 6" above finished floor

Floor shall be level, 5" thick, have a 2" sand base, and ½" rebar on 18" centers

Cut control joints as necessary

Expansion joints shall be used when necessary

Door shall be large enough to accommodate removal of fertilizer tank

Door shall have provisions for a padlock

Building shall have a wall vents near the floor and at least one in the roof

All vents shall be able to be closed for winter

Roofing may be asphalt shingles or white steel

Siding material shall be pre-finished fiber cement or gray steel

Concrete pad outside door, sloped away from building

Pad length and width shall equal door opening dimension

Pad shall be 5" thick, have a 2" sand base, and ½" rebar on 18" centers

Cut control joints as necessary

Minimum sidewall height is 7'

(2) GFCI, 115V outlets

(1) Overhead light and switch at door

Fencing

The fencing on the north side of the project will remain unchanged and shall not be damaged during construction. The chain link fence fabric near the west boundary of the scope of work, totaling approximately 530', will need to be removed prior to construction and reinstalled after construction is complete. Remove and haul away approximately 52 line posts and concrete in which they are set. Install 52 new 2", SCH40 line posts and set in

concrete. Re-stretch and tie existing fabric onto new posts with new ties. Top rail and post tops shall be reused if possible and replaced if not. Fencing will be removed prior to grading and re-installed after sprigging is complete.

Gate:

One gate 10 feet wide shall be added directly east of the fertilizer injection building. The gate shall have a latch with provisions for a padlock.

Remove and Reinstall Goal Post

Remove and reinstall one football goalpost from the existing practice field. Top of crossbar shall be level and 10' above final grade. Vertical posts shall be set in an 18" diameter concrete base. Post shall be plumb. Any loose paint shall be removed from the post and the post repainted yellow or other color designated by USD 261.

Sprig Bermuda Grass

Type: The type of bermuda grass used may be either Latitude 36 or Northbridge. Certification documents will be provided to Haysville USD 261 for all sod used. Sod shall be sprigged within 48 hours of harvest and be hauled on tarped or refrigerated trucks if the sod will be transported more than 100 miles. No sod or other material shall come from Easton Sod due to past performance.

Timing: Sprigging shall occur between May 16 and June 18. Sprigging shall not occur before the bermuda grass to be harvested is 100% green and would make high quality sod. Fields are to ready for use August 15, 2016.

Surface preparation: The surface shall be kept free from vegetation throughout the spring with appropriate herbicides. The surface shall be firm, but able to allow penetration from the sprigging machine's coulters. The grade established during the grading process shall not be disturbed. Equipment that will move soil shall not be used for surface preparation, including rotary tillers. The surface shall be sufficiently dry to support the weight of any sprigging equipment without making tracks in the soil.

Equipment: A Sprigmaster II sod to sprigs machine shall be used to convert big rolls of sod into sprigs and plant the sprigs. The tractor used to power and pull the Sprigmaster II shall be equipped with turf-type tires. No equipment used to load or transport sod shall be allowed on the irrigated playing surface other than the tractor and Sprigmaster II during sprigging. Any equipment on the playing surface shall be designed for use on turf and be equipped with low ground pressure, turf-type tires.

Rate: A rate of 6:1 shall be used for sprigging. The total amount of sod to be converted to sprigs and planted will not be less than 4,334 square yards.

Additional items:

One application of 13-13-13 fertilizer shall be made immediately prior to sprigging at a rate of 335# per acre. Top dressing with mason's sand shall occur directly after sprigging, before watering begins, at an approximate rate of 20 tons per acre. One application of Ronstar Flo herbicide shall be made to the entire sprigged area following recommendations on the chemical label after top dressing. Dripperline, valves, valve boxes, flushing stations, and any other irrigation equipment shall not be damaged during sprigging. Irrigation shall occur within 24 hours of the start of the sprigging process and continue until the surface is 100% moist. Contractor shall manage the irrigation for two days after the after sprigging, top dressing, and Ronstar Flo application is complete, maintaining a constantly moist soil surface. USD 261 staff will assume responsibility for the irrigation at that point unless the third day falls on a Saturday or Sunday. In the event that day three falls on a Saturday or Sunday, the contractor shall continue irrigation management until the Monday following the third day.

Optional Grow-in Maintenance

Grow in maintenance will be provided for the first growing season including:

Inject 1 lb. actual nitrogen (pure 28% liquid nitrogen) per week per 1000 sq/ft during irrigation into the system beginning 14 days after sprigging for up to 8 weeks, or until August 20, whichever occurs first. Fertilizer must be evenly distributed throughout all zones. Contractor shall provide injection pump, fertilizer and tank.

If a fertilizer injection system is purchased, contractor shall provide 1 lb. actual nitrogen (pure 28% liquid nitrogen) per week per 1000 sq/ft to be injected during irrigation into the system beginning 14 days after sprigging for up to 8 weeks, or until August 20, whichever occurs first.

One application of Drive XLR8 for post-emerge crabgrass control if needed according to label directions.

One application of Strike 3 for broadleaf weed control if needed according to label directions.

Assist Haysville USD 261 in managing the sub-surface drip irrigation system as needed.

One application of granular 0-0-50 potash at a rate of 87# per acre between August 20 and September 10.

*Bidders shall include with the bid: the company name; address; telephone number; name of contact person; and the bid itself.

*K.S.A. 60-1111 requires that all construction projects that exceed \$100,000 ensure contractors provide a payment bond to the State of Kansas in an amount equal to the cost of the project. Contractor will file a payment bond with the Sedgwick County Clerk of District Court and furnish USD 261 with copies of the bond bearing written approval of the Clerk of the Court.

*Contractors will maintain insurance coverage throughout the project and provide USD 261 with evidence of insurance coverage, including Worker's comp and employer's liability; general liability; commercial general liability including umbrella coverage; and auto liability; as required by law.

*Contractor is required to comply with all local, state and federal laws, ordinances and regulations.

*Contractor is required to be bonded and to have a license as required by local ordinance.

*Contractor will obtain all required construction permits and arrange for inspections as required by law.

*There will be absolutely no tobacco use, alcohol use and/or violence or threat of violence on any USD 261 property.

*Contractor and employees shall exercise discretion in language and behavior when working on USD 261 property.

*Contractor will maintain site areas in a clean and orderly condition free of waste materials, debris and rubbish. Upon completion of the work, the construction area shall be thoroughly cleaned in a neat and presentable manner. Areas not a part of the construction, but areas provided by the owner for construction use shall be left neat and presentable following the contractors use.

*USD 261 will provide the winning bidder with a project exemption number and certificate upon request.

*The contractor will present to USD 261 a State of Kansas project completion certificate upon completion of the job.

*USD 261 reserves the right to reject any or all bids based on availability of funding or other needs to delay the project.

* Interested contractors **must** visit the site before submitting a bid to familiarize themselves with the project and to verify the layout with Mr. Freddy Robinson (316-761-8483), USD 261 Director of Facilities.

*Successful bidder shall coordinate this project with USD 261 Staff, BJ Knudson, Freddy Robinson and/or other designated USD 261 supervisors.