



## POUDRE SCHOOL DISTRICT R-1

IFB #20-715-003

### BAUDER ELEMENTARY AND HARRIS BILINGUAL PLAYGROUND PAVEMENT REPLACEMENT

#### Addendum 2.0

ADDENDUM POSTING DATE: February 7, 2020

IFB CLOSING DATE: Friday, February 14, 2020, 2:00 p.m. MST

- 
- No questions were received in the BidNet portal by the due date/time for questions.
  - Clarification from the February 6<sup>th</sup> optional pre-bid meeting:

The District is adding Alternate #1 to the Bauder Elementary Scope, per the specifications noted below. Included with this addendum is a revised bid form, noting this alternate. **Please complete and submit the revised bid form.**

Alternate #1: An eighty (80) foot long by forty-eight (48) inch wide sidewalk/path leading to a fifteen (15) foot by fifty-five (55) foot pad, with a five (5) inch thickness, per the included PSD concrete spec, where the current bike storage rack is located

**12.0 BID FORM - REVISED**

**BAUDER & HARRIS PLAYGROUND PAVEMENT  
IFB #20-715-003  
February 14, 2020 - 2:00 P.M. (MST)**

Provide the information requested. Poudre School District reserves the right to reject any or all Bids or any parts thereof. This IFB may be awarded to one (1) Contractor. Contractor agrees to furnish all labor and materials to complete the execution of the scope described in the Bid Documents and any relating Q&A/addenda.

**12.1 PROJECT COST - REVISED**

**BASE BID LUMP SUM – BAUDER ELEMENTARY SCOPE**

\_\_\_\_\_  
\_\_\_\_\_  
Dollars(\$ \_\_\_\_\_)

**ALTERNATE #1 – BAUDER ELEMENTARY – CONCRETE PATH AND PAD**

\_\_\_\_\_  
\_\_\_\_\_  
Dollars(\$ \_\_\_\_\_)

**BASE BID LUMP SUM – HARRIS BILINGUAL SCHOOL SCOPE**

\_\_\_\_\_  
\_\_\_\_\_  
Dollars(\$ \_\_\_\_\_)

**12.2 CONFIRMATION OF SCHEDULE**

The undersigned Contractor agrees to achieve completion of the project no later than August 8, 2020 with a start date as early as June 2020. There is no early incentive offered by the District.

Company Name: \_\_\_\_\_

Authorized Agent's Name: \_\_\_\_\_

Authorized Agent's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## **SECTION 32 10 00 – PAVING, SIDEWALKS, AND CURBING**

### **Part 1: General**

#### 1.01 Summary

- A. This section includes:
  - 1. Paving requirements
  - 2. Construction of curbs, curbs with gutters, cross-pan sections, and sidewalks.
  - 3. Pavement markings
- B. **Refer to City of Fort Collins Streets Department specifications for paving.**
- C. **Snowplow access required to all paved areas, including sidewalks.**
- D. Curb Configuration: Vertical with full cut at drives and ramps. Invert curbs preferred. Roll curb on a case by case basis.
- E. Drainage shall not cross major pedestrian paths.
- F. Specify the least amount of asphaltic concrete paving as possible. Utilize light colored/high albedo materials with a high Solar Reflectance Index (SRI) instead of asphalt when feasible.
- G. Where feasible, use rubberized asphalt. Preference shall be given to mixes using wet or dry crumb rubber materials. Crumb rubber shall be 100% post-consumer recycled tires.
- H. Where feasible, incorporate crushed concrete or blast furnace slag complying with ASTM D692; recycled porcelain or other non-traditional aggregate material complying with ASTM D6155; or onsite demolition debris. Reduce use of Portland cement by using less cement or substituting a percentage of material with fly ash, slag cement or other recycled material. Provide appropriate documentation.
- I. Consider porous pavement systems such as precast concrete pavers, monolithic concrete porous pavement, or recycled plastic pavers to reduce site impervious cover.

#### 1.02 Related Sections

#### 1.03 Definitions

#### 1.04 Submittals Required

- A. Product Data
- B. Samples

#### 1.05 Quality Assurance

- A. QUALIFICATIONS
  - 1. Installer (Pavement Marking) MUST BE regularly engaged in this type of work and with proper equipment for striping a project of this size.
- B. STANDARDS (Pavement Marking)
  - 1. Comply with the Larimer County Urban Area Street Standards, latest edition.
  - 2. Comply with the Manual for Uniform Traffic Control Devices (MUTCD), latest edition.
- C. WARRANTY
  - 1. Bituminous (Asphalt) Pavement: Two-year labor and material warranty covering creeping, shoring, cracking, settling, and ponding.

#### 1.06 Scheduling

#### 1.07 Delivery, Storage, and Handling

#### 1.08 Regulatory Requirements

### **Part 2: Products**

#### 2.01 Manufacturers

#### 2.02 Products

- A. Concrete paving required at the following locations:
  - 1. Trash pick-up areas

#### Division 32 Exterior Improvements 2

- 2. Loading dock areas
  - 3. Entrance walks
- B. Concrete paving preferred at the following locations, where budget allows:
  - 1. Bus Traffic
  - 2. Parking areas
  - 3. Dumpster pads
  - 4. Service vehicle parking areas
  - 5. Play pads
- C. Asphaltic pavement preferred elsewhere. Thickness to match use. Contact PSD Outdoor Services for detail.
- D. Walks: walks that are driven on should be a minimum 6" deep and 8' wide where applicable.

- E. Drain Pans: 4' drain pans are recommended. Concrete drain pans within asphalt pavement are preferred.
- F. Wheelstops:
  - 1. May be used depending on location. **Check with PSD's Outdoor Services.**
  - 2. Permanent curbs preferred
- G. Pavement Marking Materials:
  - 1. Paint markings shall not fade, crack, flake, or peel within the warranty period.
  - 2. Yellow color, or white markings/red curb for fire lanes, meeting requirements of Section 708.05, "Pavement Marking Paint" of the Standard Specifications for Road and Bridge Construction, 1986, Colorado Department of Highways.

### Part 3: Execution

#### 3.01 Preparation

#### 3.02 Installation

##### A. EXECUTION

- 1. Herbicide:
  - i. In instances where base is replaced, herbicide is required
  - ii. Check with PSD's Outdoor Services as to type of herbicide which may be used.
- 2. Asphalt Reinforcing Mesh: 2" minimum overlay.
- 3. Asphalt Edge Detail (Mandatory): Curb or 12"-wide reinforced concrete to depth of base course.
- 4. Concrete Reinforcing: Maintain welded wire fabric between center and bottom 1/4 of slab. Fiber mesh may be used when called for.
- 5. Concrete Finish: Medium broom texture perpendicular to main traffic flow.

##### B. FIELD QUALITY CONTROL

- 1. Notify PSD Project Manager at least 24 hours in advance of the following:
  - i. Start of excavation, backfilling and compacting operations.
  - ii. Staking of grades/elevations.
  - iii. Subgrade placement.
  - iv. Base course placement.
  - v. Prime coat.
  - vi. Wearing surface placement.

##### C. SUBGRADE

- 1. Scarify to a depth of 6 inches and compact.
- 2. Do not work on subgrade while ground is frozen or muddy.

##### D. FORMING

- 1. Forms shall be of full depth and shall be of such design as to permit secure fastening.

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- 2. Face boards if used, shall be so constructed and shaped that their lower edge conforms to lines and radii of structures.
- 3. Use flexible or curved forms of proper radius for curves of 100 foot radius or less.

##### E. JOINTS

- 1. Traverse joints shall be located at intervals of 10 feet in curbs, gutters, and crosspans. For sidewalks tooled joints shall be at 5 feet. Joints shall be continuous through all three elements. Joints shall be a minimum of 1/4 thickness of the concrete. Set joints at right angles to face, top, and flow line.
- 2. Expansion joint material shall be installed between new structures and existing concrete, concrete pans, around fire hydrants, poles, inlets, other fixed objects, and between the ends of sidewalk slabs and curbs. Expansion joint material shall be vertical and with the top edge flush with the finished surface. The joint shall be edged with a suitable edging tool.
- 3. Sealing Joints:
  - i. Apply cold poured silicone sealant in accordance with manufacturer's instructions. Backer rod is not required.

##### F. CONCRETE REPLACEMENT

1. Remove, dispose of and restore to original or better condition concrete drives, curbs, gutters, sidewalks, and similar structures that get damaged during construction.
  - i. Remove concrete to neatly sawed edges or to existing smooth joint lines.
    - a. Saw concrete to a minimum depth of 2 inches.
    - b. If saw cut would fall within 3 feet of construction joint, cold joint, expansion joint, or edge, remove concrete to the joint.
  - ii. Base course - construct in accordance with the Standard Specifications.
    - a. Restore to same thickness as existing, but in no case less than 3 inches.
2. Restore to existing alignment, dimensions and grades, or new alignment, dimensions and grades.
3. Provide for a 30 diameter lap if existing concrete that is removed contains reinforcing steel. New steel shall be of same diameter and of equal or better quality.
4. Restore all surface improvements to the same thickness as existing, but in no case less than the following:
  - i. Driveway - 6 inches.
  - ii. Gutter - 6 inches measured at flowline.
  - iii. Sidewalk – 5 inches.
  - iv. Fire lane – 7” see sketch at end of section.
5. Tool outside edges of sections and joints with a 1/4 inch radius edging tool.

#### G. MANHOLE FRAMES AND VALVE BOXES

1. Prior to placing concrete adjust manhole frames and water valve boxes to final grade. Leave 1/4 inch below grade in areas of snowplowing.
2. Immediately remove foreign matter which is introduced into manholes, water valve boxes to provide free access to the facilities.
3. Valve boxes and manhole rings shall be straight and properly aligned.
  - i. Valve boxes shall be inspected by placing a valve key on the operating nut to assure a proper alignment.

#### H. FINISHING

1. Trowel and brush face surface of curb and gutter.
2. Immediately after float finishing sidewalks and cross pans, slightly roughen the concrete surface by brooming in the direction perpendicular to the main traffic flow.

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3. Round back edge of curbs, lip of gutter adjacent to pavement, and edges adjacent to joints with edger of 1/4 in. radius.
  4. Fill honeycombed back formed areas with mortar. Replace concrete sections when honeycomb is exposed to view.
- #### I. FIELD QUALITY CONTROL
1. Compact to accepted densities submitted with the mix design. The following are minimum densities in accordance with ASTM D698:
    - i. Subgrade: 95%
    - ii. Base Course: 95%
  2. The work shall be in accordance with the following tolerances:
    - i. When checked with a ten foot (10') straightedge, grade shall not deviate by more than one-quarter inch (1/4”) and alignment shall not vary by more than one-half inch (1/2”). Final elevation shall not depart from plan elevation by more than one-half inch (1/2”).

#### 3.03 Cleaning and Protection

#### Division