

ADDENDUM NO. ONE (1)

TO THE BIDDING DOCUMENTS FOR

Blue Valley School District – 2016 Flooring Replacement – Package A

ISSUE DATE: 17, November, 2015

Contractors are hereby notified that the Construction Documents on the above-named project, for which bids will be taken 23 November, 2015, are amended as noted below.

This Addendum forms a part of the Contract Documents and consists of (24) pages of 8.5 X 11.

CHANGES TO THE DOCUMENTS – Blue Valley School District – 2016 Flooring Replacement – Package A

Changes to the SPECIFICATIONS

- AD1.1** Section 00410 Bid Form - **DELETE** Bid Form and **ADD** new Bid Form. New Bid Form contains additional Unit Pricing Required.
- AD1.2** Section 00520 – AIA A101 – Standard form of Agreement Between Owner and Contractor. **REPLACE** page 3 & page 4 of 7, contains additional Unit Pricing.
- AD1.3** Section 01100 Summary – Blue Valley West High School (BVW); **REVISE** Completion dates to read: 5/31 – Tuesday, Contractor begins
7/5 – Tuesday – Substantial Completion – **Upper Level.**
7/20 – Wednesday – Substantial Completion – **Main Level.**
- AD1.4** Section 03536 – Polished Concrete Flooring.
DELETE the entire spec section and **REPLACE** with the attached spec section. (5 pages)
SUBSTITUTION: Prosoco Consolideck is not approved as an equal.
- AD1.5** Section 09705 – Resinous Flooring.
DELETE the entire spec section and **REPLACE** with the attached spec section. (6 pages)
SUBSTITUTION: General Polymers System as submitted and BETT Commercial Finishes are approved.
- AD1.6** Section 12350 – Manufactured Casework – **ADD** Circulation Desk layout for Lakewood MS

Changes to the ARCHITECTURAL DRAWINGS – PACKAGE A

- AD1.7** Lakewood Middle School – A101; **ADD General Note 1 to read:** GC shall cover all book cases attached to walls with plastic prior to demolition work and maintain throughout the construction project. Plastic shall be taped and sealed to protect all books and shelving from dust. GC shall be responsible to clean suitable to the Owner if dusty.
- AD1.8** Leawood Middle School – A201 and A202 – Enlarged Restrooms;
Delete Demolition Note 7 and Improvement Plan Note 9. These are not used.
- AD1.9** Sunrise Point Elementary School – A101: **ADD General Note 1 to read:** GC shall cover all book cases attached to walls with plastic prior to demolition work and maintain throughout the construction project. Plastic shall be taped and sealed to protect all books and shelving from dust. GC shall be responsible to clean suitable to the Owner if dusty
- AD1.10** See attached Pre-Bid Meeting Minutes and Attendance Sign in sheet and School Access Schedule.. (5 pages)

Contractors must acknowledge receipt of this Addendum with bid.
END OF ADDENDUM NO. ONE (1)

(Bidders: remove or copy these sheets for bid submittal)

**SECTION 00410
BID FORM PACKAGE A**

PROJECT
2016 Flooring Replacement - Package A

OWNER
Blue Valley Unified School District 229
15020 Metcalf; P. O. Box 23901
Overland Park, Kansas 66223-0901

In compliance with the Invitation and Instructions to Bidder, the undersigned proposes to furnish labor, materials and equipment necessary to construct the **2016 Floor Covering Replacement - Package A** for Blue Valley Unified School District 229, in accordance with the contract documents for the General Contract for the prices stated below (in both written and numeric formats).

Base Bid #1 Lump Sum:

- Blue Valley West High School (BVW)
- Blue Valley High School (BVH)
- Lakewood Middle School (LKM)
- Leawood Middle School (LMS)
- Pleasant Ridge Middle School (PRM)
- Prairie Star Middle School (PSM)
- Sunrise Point Elementary School (SPE)

Lump Sum Total _____ Dollars \$ _____

Base Bid #1 Bid Break down. Provide cost per school (these should add up to Lump Sum total)

Blue Valley West High School _____ Dollars \$ _____

Blue Valley High School _____ Dollars \$ _____

Lakewood Middle School _____ Dollars \$ _____

Leawood Middle School _____ Dollars \$ _____

Pleasant Ridge Middle School _____ Dollars \$ _____

Prairie Star Elementary School _____ Dollars \$ _____

Sunrise Point Elementary School _____ Dollars \$ _____

ALTERNATES: No. 1 – None

ADDENDA:

Receipt is acknowledged of Addenda No's. (write in Addenda Nos. received) _____

UNIT PRICES:

For changes in the work, state the unit prices to add to or deduct from the contract price as follows: (An ADD unit price shall not exceed the DEDUCT unit price by more than 25%.)

Description	Unit	ADD/DEDUCT
1. Skim coat for resilient tiles installed	(square feet)	\$ _____ / \$ _____
2. Self - leveling underlayment installed	(square feet)	\$ _____ / \$ _____

(Bidders: remove or copy these sheets for bid submittal)

3. **Furnish and install 4" Rubber Base** (linear foot) \$ _____/\$_____
4. **Furnish and install Polished Concrete** (square feet) \$ _____/\$_____
5. **Furnish and install Resinous Flooring** (square feet) \$ _____/\$_____
6. **Furnish and install Rubber Floor Tile (Nora)** (square feet) \$ _____/\$_____
7. **Furnish and install Rubber Flooring (Dots)** (square feet) \$ _____/\$_____
8. **Crack repair/filler for joints 1/8" wide or less with slurry fill by Mapei Ultra-top PC (Base Bid – 2000 LF) (Linear foot)** \$ 4.85 /\$ 3.85
9. **Crack repair/filler for joints larger than 1/8" width to 1/2" with VersaFlex S1-75 polyurea. (Base Bid – 2000 LF) (Linear foot)** \$ 5.20 /\$ 4.20
10. **Provide moisture barrier/vapor barrier per manufacturers recommendations for following floor finishes: (square feet)**
 - a. Resinous \$ _____/\$_____
 - b. Rubber Flooring – Nora \$ _____/\$_____
 - c. Rubber Flooring – Roppe \$ _____/\$_____

11. Blue Valley West High School (BVW)

APPROVED CARPET TILE

ADD/DEDUCT/SY

- A. Tandus, Style: Landform Colours (04072), Color: Crushed Glass (65010), Size: 24"x24" Hardback, Installation method: Vertical Ashlar. \$ _____/\$_____

APPROVED FOR ADMINISTRATION HALLWAY & ADMIN AREAS – CARPET B

Note: BVSD understands this carpet does not meet current specification requirements, however it is to be used to match existing Administration area.

- A. Mannington Commercial, Style: Halftime, Color: Halftime (Robinson), Size: 24"x24" Hardback, Installation method: Monolithic \$ _____/\$_____

12. Blue Valley High School (BVH)

APPROVED CARPET TILE FOR CLASSROOMS, OFFICES & HALLWAYS – CARPET A

- A. Bentley Mills, Style: Troubadour (4TOT5), Color: Wayfarer (400340) Size: 24"x24" Installation method: TBD by architect \$ _____/\$_____
- B. Mannington Commercial, Style: Nashville, Color: Queen Village (14325), Size: 24"x24" Hardback, Installation method: TBD by architect \$ _____/\$_____

13. Lakewood Middle School (LKM)

APPROVED CARPET TILE

ADD/DEDUCT/SY

- A. Bentley Mills, Style: Hitchhiker (4HI00), Color: Conspiracy Theory (405230), Size: 24"x24" Hardback, Installation method: TBD by architect \$ _____/\$_____
- B. Mannington Commercial, Style: Elevate (04705), Color: Spectrometer (51512), Size: 24"x24" Hardback, Installation method: TBD by architect \$ _____/\$_____

(Bidders: remove or copy these sheets for bid submittal)

14. Sunrise Point Elementary School (SPE)

APPROVED CARPET TILE

ADD/DEDUCT/SY

- A. Bentley Mills, Style: Savage Journey (4SJ00), Color: Hotel California (405229), Size: 24"x24" Hardback, Installation method: TBD by architect \$ ____/\$ ____
- B. Tandus, Style: Elevate (04705), Color: Spectrometer (51512) , Size: 24"x24" Hardback, Installation method: TBD by architect. \$ ____/\$ ____

15. All Schools scheduled for Walk-off Carpet

\$ ____/\$ ____

- A. Waterhog carpet tiles, color Charcoal.

16. Walk-off Carpet B

\$ ____/\$ ____

- A. Mannington Commercial, Style: Recoarse II, Color: Traverse Tan (8413)

TIME OF COMPLETION

The date of **Substantial and Final Completion** shall be: **As outlined in specification section: 01100 Summary. Each scope of work has its own completion date and is subject to Liquidated Damages in the amount of \$2,500 per day, per school.**

MAJOR SUBCONTRACTORS

The undersigned lists and identifies the major subcontractors he has included as part of this Bid and further agrees that in the event of "Acceptance of Bid (Award)" (A701, par. 5.3) by the Owner for the work identified and listed, and contingent on their being acceptable to the Owner, they will be included as a part of the written contract. If award of Alternates affects subcontractors shown, list other subcontractors as applicable for each type of work and combination of Alternates. Contractors will be given 2 hours from stated bid time, on the day of the bid opening, to submit this list. Faxed copies of the list will be permissible, sent to (913) 239-4583.

1. Resilient Flooring Subcontractor: _____
2. Carpet Subcontractor: _____
3. Demolition Subcontractor: _____
4. Polished Concrete Subcontractor: _____
5. Resinous Subcontractor: _____
6. Electrical Subcontractor: _____

CONTRACT

If notified of the acceptance of this proposal within 60 calendar days, the undersigned agrees to execute a contract for the work on the form of "The Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum", Document No. A101, current edition, American Institute of Architects, within 10 calendar days after receipt of notification.

PROPOSAL SECURITY

The undersigned agrees that the Proposal Security shall become the property of the Owner in the event the Contractor fails to execute the Contract and the Bonds within the time set forth above, as liquidated damages for the delay and additional expense to the Owner caused thereby.

DECLARATION

The undersigned hereby declares that he has examined the Contract Documents, has visited the Site, and submits this Proposal in compliance therewith. The undersigned understands that his competence and responsibility and that of his subcontractors, time of completion, as well as any other factors of interest to the Owner may be a consideration in making the award. The Owner reserves the right to reject any or all proposals, to accept or reject alternate proposals and unit prices, and to waive technicalities concerning the proposals received as it may be in his best interest to do so.

(Bidders: remove or copy these sheets for bid submittal)

Company Name

Address

Telephone and FAX Numbers

BY

TITLE

End of Section 00410

Description	Units	Price (\$0.00) (Add/Deduct)
1. <i>Skim coat for resilient tiles installed</i>	<i>(square feet)</i>	\$ _____ / \$ _____
2. <i>Self - leveling underlayment installed</i>	<i>(square feet)</i>	\$ _____ / \$ _____
3. <i>Furnish and install 4" Rubber Base</i>	<i>(linear foot)</i>	\$ _____ / \$ _____
4. <i>Furnish and install Polished Concrete</i>	<i>(square foot)</i>	\$ _____ / \$ _____
5. <i>Furnish and install Resinous Flooring</i>	<i>(square foot)</i>	\$ _____ / \$ _____
6. <i>Furnish and install Rubber Floor Tile (Nora)</i>	<i>(square foot)</i>	\$ _____ / \$ _____
7. <i>Furnish and install Rubber Flooring (Dots)</i>	<i>(square foot)</i>	\$ _____ / \$ _____
8. <i>Crack repair/filler for joints 1/8" wide or less with slurry fill by Mapei Ultra-top PC (Base Bid include 2000 LF)</i>	<i>(Linear foot)</i>	\$ <u>4.85</u> / \$ <u>3.85</u>
9. <i>Crack repair/filler for joints larger than 1/8" width with VersaFlex S1-75 polyurea. (Base Bid include 2000 LF)</i>	<i>(Linear foot)</i>	\$ <u>5.20</u> / \$ <u>4.20</u>
10. <i>Provide moisture barrier/vapor barrier per manufacturers recommendations for following floor finishes:</i>	<i>(square feet)</i>	
a. Resinous		\$ _____ / \$ _____
b. Rubber Flooring – Nora		\$ _____ / \$ _____
c. Rubber Flooring – Roppe		\$ _____ / \$ _____

11. Blue Valley West High School (BVW)

APPROVED CARPET TILE

Approved for Offices, Classrooms & Hallways – Carpet A

ADD/DEDUCT/SY

- A. Tandus, Style: Landform Colours (04072), Color: Crushed Glass (65010), Size: 24"x24" Hardback, Installation method: Vertical Ashlar \$ _____ / \$ _____

Approved for Administration Hallway & Admin Areas – Carpet B

Note: BVSD understands this carpet does not meet current specification requirements, however it is to be used to match existing Administration area.

- B. Mannington Commercial, Style: Halftime, Color: Halftime, (Robinson), Size: 24"x24" Hardback, Installation method: Monolithic \$ _____ / \$ _____

12. Blue Valley High School (BVH)

APPROVED CARPET TILE

- A. Bentley Mills, Style: Troubadour (4TOT5), Color: Wayfarer (400340), Size: 24"x24" Hardback, Installation method: TBD by architect \$ _____ / \$ _____
- B. Mannington Commercial, Style: Nashville, Color: Queen Village (14325), Size: 18"x36" Hardback, Installation Method: TBD by architect \$ _____ / \$ _____

13. Lakewood Middle School (LKM)

APPROVED CARPET TILE

- A. Bentley Mills, Style: Hitchhiker (4HI00), Color: Conspiracy Theory (405230), Size: 24"x24" Hardback, Installation method: TBD by architect \$ ____/ \$ ____
- B. Tandus Centiva, Style: Elevate (04705), Color: Spectrometer (51512), Size: 24"x24" Hardback, Installation method: TBD by architect \$ ____/ \$ ____

14. Sunrise Point Elementary School (SPE)

APPROVED CARPET TILE

- A. Bentley Mills, Style: Savage Journey (4SJ00), Color: Hotel California (405229), Size: 24"x24" Hardback, Installation method: TBD by architect \$ ____/ \$ ____
- B. Tandus Centiva, Style: Elevate (04705), Color: Spectrometer (51512), Size: 24"x24" Hardback, Installation method: TBD by architect \$ ____/ \$ ____

15. All Schools scheduled for Walk-off Carpet \$ ____/ \$ ____
Waterhog carpet tiles, color Charcoal.

16. Walk-off Carpet B \$ ____/ \$ ____
A. Mannington Commercial, Style: Recoarse II, Color: Traverse Tan (8413)

ARTICLE 5 PAYMENTS

5.1 PROGRESS PAYMENTS

5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

5.1.2 The period covered by each Application for Payment shall be one calendar month ~~ending on the last day of the month~~, or as follows:

5.1.3 Provided that an Application for Payment is received by the Architect not later than the ~~_____ day of a month~~ application date noted on the Application for Payment Schedule attached hereto as Exhibit B, the Owner shall make payment to the Contractor not later than the ~~_____ day of the same month~~ payment date noted on such Application for Payment Schedule. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than forty-five (45) days after the Architect receives the Application for Payment. The parties acknowledge and agree that the Owner's Board of Education regularly meets only once per month, and that such limited meeting schedule shall be a deemed an extenuating circumstance for purposes of K.S.A. 16-1901 et seq., as amended.

5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Owner and Contractor agree that retainage of ten percent (10%) of the Contract Sum is required to ensure performance of the Contract.

5.1.5 Applications for Payment shall indicate the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

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**SECTION 03536
POLISHED CONCRETE FINISH**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Mechanically bonded-abrasive polished concrete floor finish: Large aggregate – High Gloss
 - 2. Concrete protective treatment includes “neutral pH, hydrophobic concrete protective floor treatment”.
 - 3. Special cut-outs and patching of floor projections such as floor cleanouts and electrical floor boxes.
 - 4. Dust barriers for protection of adjacent spaces.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. Section 07920 - Joint Sealers.

1.2 REFERENCES

- A. ANSI 137.1 – Dynamic Coefficient of Friction (DCOF) Standard.
- B. ASTM C 805 – Standard Test Method for Rebound Number of Hardened Concrete.
- C. ASTM E 1155 – Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers.
- D. CSDA ST 115 – Standard for Measuring Concrete Micro Surface Texture.

1.3 SUBMITTALS

- A. Submittals for Review:
 - 1. Product Data: Manufacturer’s descriptive data and application instructions for concrete treatment products.
- B. Quality Control Submittals:
 - 1. Applicator qualifications, including list of previous projects and certification issued by flooring system manufacturer.
- C. Sustainable Design Submittals:
 - 1. Low-Emitting Materials.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Minimum 3 years documented experience in dyed and polished concrete floors.
 - 2. Certified CSDA ST 115 operator and Select Concrete installer.
 - 3. Use an experienced and approved CSDA certified Surface Refinement Specialist and adequate number of skilled workpeople who are trained and experienced in the work involving concrete polishing and new placement concrete surface texturing.
 - 4. Provide a letter of certification from concrete finishing system supplier stating installer is a certified applicator of approved material and their machines and equipment is capable of complying with the specified Surface Texture Grades (STG) and conforms to proper performance of work in this section.
- B. Concrete:
 - 1. Mix Design: Free from admixtures and additives not specifically approved by concrete surface treatment manufacturer.
 - 2. Curing compound acceptable to concrete treatment manufacturer.
 - 3. Overlay product must be cementitious and able to be polished.
- C. **Pre-Installation Conference:**
 - 1. **Convene 2 weeks prior to beginning work of this section.**
 - 2. **Attendance: Contractor, Owner, Architect, and concrete polishing subcontractor.**
 - 3. **Review and discuss:**
 - a. **Staging and sequencing.**
 - b. **Schedule by area with manpower breakdown to complete.**
 - c. **Relationship of each party and their effect on finished product.**

- d. **Protection with dust barriers or zipper openings in all areas affected by work.**
- e. **Protection of concrete surfaces prior to polishing with emphasis on need to understand that trades are working on a finished surface.**
- f. **Special conditions such as floor cleanouts and electrical boxes to level area around projections and provide method and means to resolve any differences in heights.**
- g. **Protection of completed work.**
- h. **Cleanup – daily and final.**

- D. Mockup:
 - 1. Size: Minimum 50 square feet.
 - 2. Show polished finish and concrete surface treatment.
 - 3. Locate one mockup on elevated deck and one on slab, final location to be determined.
 - 4. Approved mockup may not remain as part of the Work.
- E. Slip Resistance: After polishing, achieve minimum slip resistance of 0.62 tested to ANSI A1264-2.

1.5 PROJECT CONDITIONS

- A. Concrete Substrate:
 - 1. Concrete is existing and must be prepared in accordance with the manufacturer's strict recommendations to achieve the approved finish previously completed in locations to be determined.
- B. Protect concrete surfaces scheduled to receive polished finish prior to finishing; prevent damage and staining:
 - 1. Provide fluid containment for equipment working on floors before and after polishing.
 - 2. Do not allow vehicular traffic on floors before or after polishing.
 - 3. Do not allow acids to contact surface.
- C. Apply concrete treatment when ambient and surface temperatures are between 35 and 90 degrees F.
- D. Close areas to traffic during finishing and for minimum time period after finishing as recommended by concrete treatment manufacturer.
- E. Review existing areas for projections (cleanouts and electrical boxes) in the floor that will required patching and or coring to maintain level with new polished concrete surface. Include necessary repairs in bid.
- F. General Contractor shall take pre-existing photos to be used in discussions should any damage occur.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design is products by Husqvarna Construction Products: Olathe, Kansas 66061 – 206-375-3066 Chris Bennett (www.husqvarna.com), or pre-approved equal.
- B. Dual-Drive, variable speed, three-phase, walk-behind machine with not less than 700 pounds of down pressure on grinding or diamond polishing pads.

2.2 MATERIALS

- A. Concrete Treatment Materials:
 - 1. Latex grouting mix: GM3000.
 - 2. Densifier: Hiperhard.
 - a. *Potassium densifier for exposed aggregate*
 - 3. Penetrating solvent-based sealer: Hiperguard or Hiperguard Green (VOC compliant)
- B. Edge-Tint: **Do not provide Edge Tint – not required**
- C. Concrete Polishing System: A hydrophobic, pH neutral densification and refinement process.
 - 1) Concrete Liquid Applied Products: Chemically reactive, waterborne solution of inorganic materials and proprietary components that are odorless, low VOC, colorless that penetrates, hardens, and densifies concrete surfaces when applied at time of placement and finishing process.
 - 2) Special Colorant: Product capable of properly working with neutral pH, hydrophobic densification and refinement systems.
 - i) Color: To be determined, matching control sample if necessary

3) Protective Composite Panel System for exposed concrete finishes.

2.3 ACCESSORIES

- A. Cleaning Products: Non-corrosive, neutral pH, of type recommended by concrete treatment manufacturer.
- B. Joint Sealer: Specified in Section 07920.
- C. Rapid Set Tru Concrete Patching materials. Submit colors available.

2.4 EQUIPMENT

- A. Grinding and Polishing Equipment: As manufactured by Husqvarna Construction Products.
 - 1. Grinding tools: Metal bonded diamond type, G600 or G1100 Series.
 - 2. Honing and polishing tools: Resin bonded diamond type, P600 or P1200 Series.

PART 3 - EXECUTION

3.1 ACCEPTABLE INSTALLERS

- A. Following installers are trained, certified and approved to perform work of this Section:
 - 1. Artistic Concrete Surfaces, 913-829-7222, mike.denny@kansascityconcrete.com
 - 2. Royale Concrete: (Jessica Ledger-Kalen <jlk@royaleconcrete.com>) 641-919-8912
 - 3. Superior Aggregate Designs: (Pat Watkins Pat@superiorks.com) 316-943-2347
 - 4. George J. Shaw: (sdegraeve@gjshaw.com; ptournor@gjshaw.com) 816-231-8200
 - 5. Polished & Decorative Concrete: (Jon Chambers) www.flooringevolutions.com 913-238-0372
 - 6. AllStar Concrete: (Jason Duke stainedfloors@gmail.com) 512-740-2234
 - 7. Musselman & Hall Contractors, LLC: 816-861-1234, 800-257-4255
 - 8. Husqvarna trained/certified installer approved prior to bid.
- B. Substitutions: Under provisions of Division 01.
- C. Concrete Sawing and Drilling Association, 100 2nd Avenue South, Suite 402N, St. Petersburg, FL 33701. Phone (727.577.5004). Website: www.csda.org, info@csda.org to find certified ST 115 installers.
- D. **General Contractor shall provide two (2) separate fully trained and certified subcontracting firms to perform the grinding and polishing work at Blue Valley Northwest High School. Refer to Sheet BVNW A102 for defined areas of work for each subcontractor. As part of the pre-installation meeting, each subcontractor shall submit his plan to complete his portion of the work within the required construction schedule.**

3.2 EXAMINATION

- A. Examine substrate for conditions that could adversely affect application or performance of finish; correct detrimental conditions.
- B. Verify that concrete floors meet requirements specified under "Project Conditions".
- C. Verify that surfaces were cured using water-based curing compound.

3.3 PREPARATION

- A. Provide wood dust barriers with visqueen or plastic zipper openings to control dust from seeping into adjacent spaces.
- B. Thoroughly clean floors; remove debris. Remove residues using non-corrosive cleaning products.
- C. Protect adjacent surfaces including all surrounding building materials from damage, walls, doors, frames, metal thresholds, etc.
- D. Joints should be cleaned, v21 blade cut to create protective bevel for exposed aggregate floors – bevel shape to be removed during grinding process according to manufacturer's instructions unless approved as part of finished floor.

- E. Remove existing coatings using planetary grinder and dust extraction equipment with metal bonded diamond tooling. Tooling grit and bond appropriate for materials being removed, concrete mix design, placement technique, and location, to produce required final polishing.
- F. Install sealant at all open joints, color to match adjacent or previous projects, material type as recommended by manufacturer.

3.4 GRINDING

- A. Using G1100 20 or 30 grit metal-bonded grinding tool, grind surface until uniform, consistent scratch pattern is achieved.
- B. Using G1100 60 grit metal-bonded grinding tool, grind surface to expose consistent aggregate coverage, remove initial scratches
- C. Using G1100 120grit metal-bonded grinding tool, grind surface to remove 60 grit scratches, grout with latex grouting mix to fill pop-outs, pin-holes and micro-craters. Do not use epoxy, polyurea or other non-densifying grout mixture.
- D. Large aggregate exposure polished concrete floor with a Roughness Average (Ra) of 6 µin (microinches.”

3.5 DENSIFYING

- A. After grinding apply densifier in accordance with manufacturer's instructions.

3.6 HONING

- A. After grinding and densifying hone successively using P1200, 50, 100, 200 bonded polishing tools. Each honing to remove scratch marks from previous honing.

3.7 POLISHING

- A. After grinding and densifying, and successful honing use P1200, 400 grit resin bonded polishing tools. Each honing to remove scratch marks from previous honing.
- B. Polish successively using P1200, 800, 1500 and 3000 grit resin bonded polishing tools until total refinement of scratches is achieved. Ensure excess densifier is removed according to manufacturer's instructions.
- C. Light meter test to ensure required lumens have been met.
 1. Very High Gloss (3000 Grit): Lumen Reading not less than **70** according to ASTM E 430 **before** polish guard application. Gloss meter reading to be met to prove calcium silicate layer is in existence and refined appropriately to meet Hiperfloor Premium requirements.
 2. Architect and owner representative to be present at gloss meter reading. Five separate readings will be taken from random selection of each floor area. Average light meter reading shall exceed 70 lumens.
 3. In the event lumens are not met, continue to refine floors with 3000 resin until met.
 4. **Lumen and Surface Texture Grades testing is a part of the requirements to meet Substantial Completion.**

3.8 SEALING

- A. Apply penetrating solvent based sealer to manufacturer's recommend coverage.
- B. Burnish using black nylon pads. Final polishing to provide smooth, even finish.
- C. Final lumen meter reading, record reading and submit to responsible facility maintenance party

3.9 FIELD QUALITY CONTROL

- A. Measure gloss rating using Horiba 320 gloss meter (or approved); re-polish if required to achieve specified gloss rating.
- B. Measure slip-resistance using BOT-3000 slip-tester by Universal Walkway Testing; ensure compliance with specified slip resistance rating.

3.10 PROTECTION

- A. Close areas to traffic until concrete treatment has cured.
- B. Protect completed work with non-staining sheet coverings.
- C. Contractor shall be responsible for any repairs required due to damage to adjacent materials or building components until acceptable to the Owner.
- D. Sub-contractor, owner representative and responsible facility maintenance party will go over required maintenance for optimum floor performance.

END OF SECTION 03536

**SECTION 09705 - RESINOUS FLOORING
ACCELERA C BROADCAST FLOOR SYSTEM W/ TOPCOAT**

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This section includes the following:
 - 1. Resinous flooring system as shown on the drawings
- B. Related sections include the following:
 - 1. Division 1, Section – unit Prices for moisture/vapor barrier systems and installation for areas as directed by the Owner.

1.3 SYSTEM DESCRIPTION

- A. The work shall consist of preparation of the substrate, the furnishing and application of a squeegee-applied resinous flooring system with Micro or Macro colored decorative chips and topcoat. The system shall have the color and texture as specified by the Owner with a nominal thickness of 50 mils. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.
- B. Zinc cove base "J" to be applied where noted on plans and per manufacturers standard details unless otherwise noted.
- C. Notify Owner/Architect for field verification of any above industry standard amount of patch material that may be required.
- D. **CONTRACTOR'S OPTION:** Existing epoxy floors maybe used as a substrate, if Contractor guarantees that existing surfaces, cracks, spalling, etc. can be patched and repaired to meet manufacturer's requirements for a floor substrate and provide the manufacturer's fully warranted system.
- E. Installation of moisture/vapor barrier membrane over existing building substrates may be required to insure that existing conditions are compliant with Manufacturer's moisture requirements to allow a fully warranted finish floor installation. Moisture testing of all substrates is required prior to installation of resinous flooring work. If tests show existing conditions are NOT compliant with Manufacturer's moisture requirements for a fully warranted floor installation, the moisture/vapor barrier membrane will be requested, based on the unit prices provided in Division 1 Unit Prices for moisture/vapor barrier membrane work.
- F. Protect all surrounding existing and new finishes, which are to remain, from damage resulting from the installation of all new resinous floor finishes. Damaged finishes shall be removed and replaced or restored to their original finish, prior to commencement of resinous flooring Work.
 - 1. Include a list indicating a step by step process of each material to be used starting from the substrate up to the top coat.

1.4 SUBMITTALS

- A. Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures and general recommendations for each resinous flooring material required.
- B. Manufacturer's Material Safety Data Sheet (MSDS) for each product being used.

- C. Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness. All levels of texture finishes with coefficient ranges available for selection by the Owner and shall be representative of overall appearance of finished system subject to normal tolerances.
- D. Maintenance Data: Submit maintenance information for resinous flooring to include in the maintenance manuals.
- E. Colors and pattern: As selected by Architect from manufacturer's full range of colors and custom color combinations. The District's custom color will be provided to the installer during submittals.

1.5 QUALITY ASSURANCE

- A. The Manufacturer shall have a minimum of 10 years' experience in the production, sales, and technical support of epoxy and urethane industrial flooring and related materials.
- B. The Applicator shall have a minimum of 5 years' experience in installation of the flooring system as confirmed by the manufacturer in all phases of surface preparation and application of the product specified. Submit project references for the last 5 projects completed.
- C. No requests for substitutions shall be considered that would change the generic type of the specified System.
- D. System shall be in compliance with requirements of United States Department of Agriculture (USDA), Food, Drug Administration (FDA), and local Health Department.
- F. A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review and clarification of this specification, application procedure, quality control, inspection and acceptance criteria and production schedule.
- G. Installer Qualifications: Blue Valley USD 229 does not consider **RD Mann or TEC Flooring** to be responsible installers and will not permit a contract with the General Contractor to be issued to these contractors for any portion of the work.
- H. Mockups: Apply mockups to verify selections made under sample submittals to demonstrate aesthetic effects and set quality standards for materials and installation. Apply full-thickness mockup on 100 square floor area including integral cove base in a location selected by Owner/Architect.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping
 - 1. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.
- B. Storage and Protection
 - 1. The Applicator shall be provided with a storage area for all components. The area shall be between 60 F and 85 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
 - 2. Copies of Material Safety Data Sheets (MSDS) for all components shall be kept on site for review by the Engineer or other personnel.
- C. Waste Disposal
 - 1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS

- A. Site Requirements
 - 1. Application may proceed while air, material and substrate temperatures are between 60 F and 85 F providing the substrate temperature is above the dew point. Outside of this range, the Manufacturer shall be consulted.

2. The relative humidity in the specific location of the application shall be less than 85 % and the surface temperature shall be at least 5 F above the dew point.
 3. The Applicator shall ensure that adequate ventilation is available for the work area.
 4. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the system.
 5. Dust and Contaminants: Schedule coating work to avoid excessive dust and airborne contaminants. Protect work areas from excessive dust and airborne contaminants during coating application and curing.
- B. Conditions of existing concrete or existing resinous to be coated with epoxy material.
1. Substrate: Perform preparation and cleaning procedures according to flooring manufacturer's instructions for particular substrate conditions involved, and as specified. Provide clean, dry, and neutral substrate for resinous flooring application.
- C. Safety Requirements
1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.
 2. "No Smoking" signs shall be posted at the entrances to the work area.
 3. The Owner shall be responsible for the removal of foodstuffs from the work area.
 4. Non-related personnel in the work area shall be kept to a minimum.

1.8 WARRANTY

- A. Dur-A-Flex, Inc. warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Dur-A-Flex, Inc. published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.
- B. Dur-A-Flex, Inc. liability with respect to this warranty is strictly limited to the value of the material purchase.
- C. Installer shall provide a minimum 5-year installation warranty as against material defects, installation failures, cracks and surface delamination.

PART 2 – PRODUCTS

2.1 FLOORING

- A. Dur-A-Flex, Inc. ACCELERERA C seamless flooring system.
 1. System Materials:
 - a. Primer: Dur-A-Flex, Inc, ACCELERERA resin, hardener, and pigment.
 - b. Broadcast Coat: Dur-A-Flex, Inc, ACCELERERA resin and hardener.
 - c. Chips: Dur-A-Flex, Inc. Macro or Micro Decorative Colored Chips.
 - d. Grout Coat: Dur-A-Flex, Inc. ACCELERERA resin and hardener.
 - e. Topcoat: Dur-A-Flex, Inc. ACCELERERA resin and hardener.
 2. Patch Materials
 - a. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Dur-A-Glaze #4 Cove-Rez.
 - b. Deep Fill and Sloping Material (over ¼ inch): Use Dur-A-Flex, Inc. Dur-A-Crete.

2.2 MANUFACTURER

- A. Dur-A-Flex, Inc., 95 Goodwin Street, East Hartford, CT 06108, Phone: (860) 528-9838, Fax: (860) 528-2802
- B. Tnemec.
- C. HP Spartacote.
- D. PRE-BID - Manufacturer of Approved System shall be single source and made in the USA.

2.3 PRODUCT REQUIREMENTS

- A. Primer, Broadcast, Grout and Topcoats ACCELERERA

1. Percent Solids	100 %
2. VOC	0 g/L
3. Bond Strength to Concrete ASTM D 4541	400 psi, substrates fails
4. Hardness, Shore D ASTM D2240	70
5. Compressive Strength, ASTM C579	18,000 psi
6. Tensile Strength, ASTM D638	2,600 psi
7. Abrasion Resistance, ASTM D4060 C-17 Wheel,	27 mg loss 1,000 gm load, 1,000 cycles
8. Potlife @ 70 F	7 – 10 minutes
9. Gloss (ASTM D523) 60°	90
10. Coefficient of Friction (ASTM D2047)	0.6 to 0.8, Owner to select.

2.4 SUPPLEMENTAL MATERIALS

- A. Joint Sealant: Type recommended or produced by manufacturer of resinous flooring system for type of service and joint condition indicated.
- B. Waterproofing Membrane (**Unit Price**): Provide a unit price for use of a fluid applied moisture barrier membrane, as required by the manufacturer, to prevent excessive moisture/humidity conditions, allowing a fully warranted floor installation.
 - 1. Vapor barrier to allow 100% relative humidity at the floor surface, while maintaining the manufacturer's full warranty.
- C. Metal Divider strip: Type provided by manufacturer at all edge conditions and between resinous flooring, exposed concrete, resilient tile, quarry tile and carpet.
- D. Manufacturer's approved mesh isolation tape for crack repairs.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting flooring performance.
 - 1. Verify that substrates and conditions are satisfactory for flooring installation and comply with requirements specified.

3.2 PREPARATION

- A. General
 - 1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.
 - 2. Moisture Testing: Perform tests recommended by manufacturer and as follows.
 - a. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
 - b. If the relative humidity exceeds 75% then Dur-A-Flex, Inc. Dur-A-Glaze MVP Primer moisture mitigation system must be installed prior to resinous flooring installation. Slab-on grade substrates without a vapor barrier may also require the moisture mitigation system.
 - 3. There shall be no visible moisture present on the surface at the time of application of the system. Compressed oil-free air and/or a light passing of a propane torch may be used to dry the substrate.
 - 4. Mechanical surface preparation
 - a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine (Blastrac or equal). All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 3-4 as described by the International Concrete Repair Institute.
 - b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.

- c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges.
 - d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.
5. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufactures recommendations.

3.3 APPLICATION

A. General

1. The system shall be applied in six distinct steps as listed below:
 - a. Substrate preparation
 - b. Priming
 - c. Broadcast coat application with chip broadcast
 - d. Grout coat application,
 - e. Topcoat application
2. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.
3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
5. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.
6. Install cove bases in areas as exists detailed on the project drawings or as exists to existing height. Provide "J" strip along top of cove.

B. Primer

1. The primer shall be pigmented ACCELERERA mixed per the manufacturer's instructions.
2. The primer shall be applied by squeegee and cross rolled with a 3/8" nap roller at the rate of 115 SF/kit.

C. Broadcast Coats

1. The broadcast coat shall be applied as a single broadcast system as specified by the Architect.
2. The broadcast coat shall be comprised of two components, a resin, and hardener as supplied by the Manufacturer and mixed per manufacturer instructions.
3. The hardener shall be added t the resin and thoroughly mixed by suitably approved mechanical means.
4. The first broadcast coat shall be applied over horizontal surfaces using a squeegee and cross rolled with a 3/8" nap roller at the rate of 75 SF/kit.
5. Chips shall be broadcast to excess into the wet material, Macro chips at the rate of 0.1 lbs/sf, and Micro chips at the rate of 0.15 lbs/sf.
6. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.
7. Scrape the floor with a trowel or floor scraper. Sweep and vacuum the floor again.

D. Grout Coat

1. The grout coat shall be comprised of ACCELERERA resin and hardener mixed per the manufacturer's instructions.
2. The grout coat shall be squeegee applied and cross rolled with a 3/8" nap roller with a coverage rate of 65 SF/kit.

E. Topcoat

1. The top coat shall be comprised of ACCELERERA resin and hardener mixed per the manufacturer's instructions.
2. The grout coat shall be squeegee applied and cross rolled with a 3/8" nap roller with a coverage rate of 200 SF/kit.
3. The finish floor will have a nominal thickness of 50 mils.

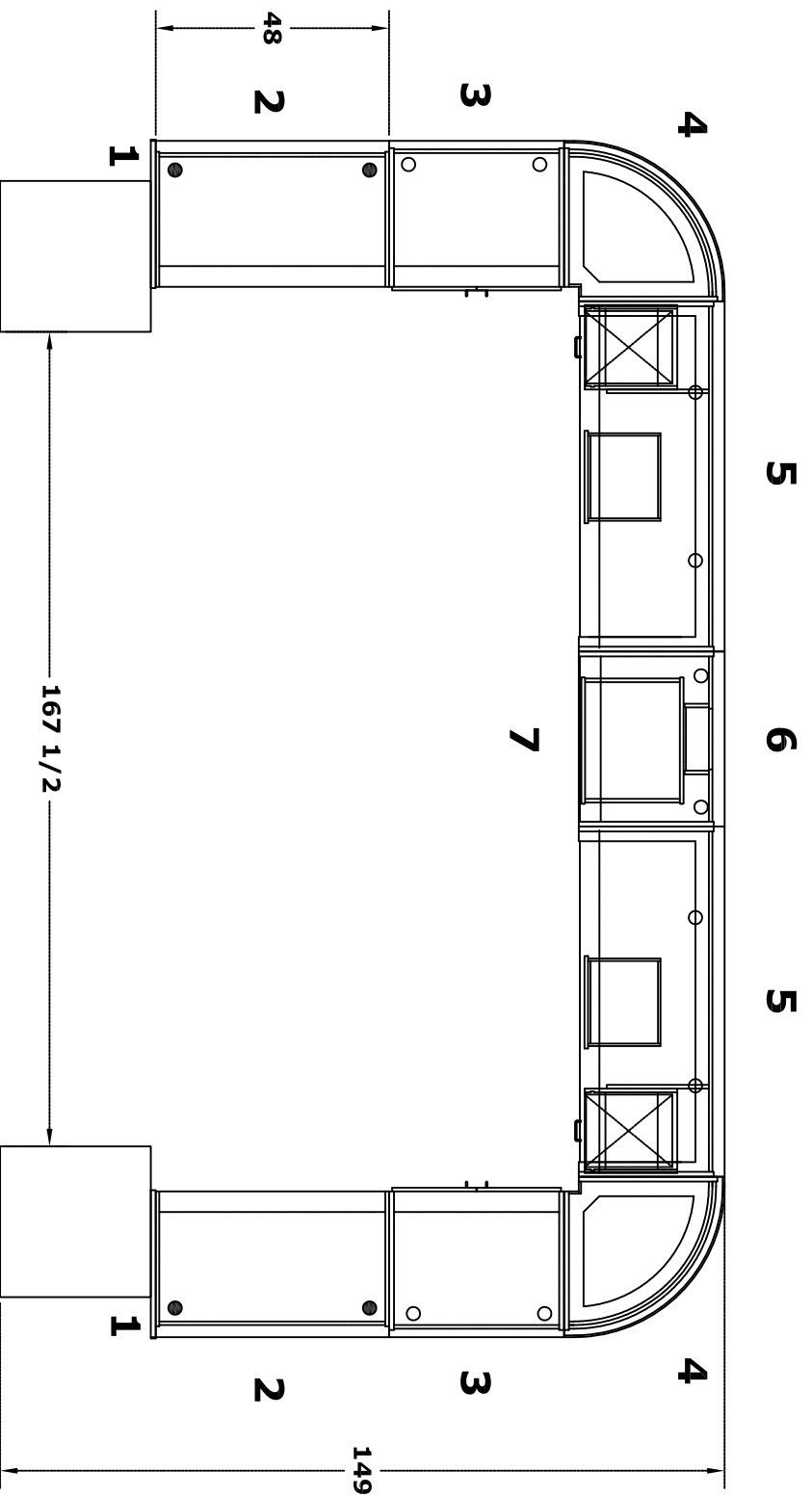
3.4 FIELD QUALITY CONTROL

- A. Tests, Inspection
 - 1. The following tests shall be conducted by the Applicator:
 - a. Temperature
 - 1. Air, substrate temperatures and, if applicable, dew point.
 - b. Coverage Rates
 - 1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.
- B. Manufacturer's Field Services: Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems and provide a final written report describing installation, report any nonconforming work submitted to the Architect and Installer at Substantial Completion.
- C. Touch-up or repair damaged coatings. Touch-up shall not be visibly different. Recoat entire surface if touch-up results are visible, either in sheen, texture or color.

3.5 CLEANING AND PROTECTION

- A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process. Close application area for a minimum of 24 hours.
- B. Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and application method.
- C. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.

END OF SECTION 09705



EQUIPMENT SCHEDULE			
ITEM	PRODUCT #	DESCRIPTION	QTY.
1	CDU-3918 MOD 40" H	FINISHED END PANEL 40" H	2
2	CDU-3938 MOD 48"W 40"H	DOUBLE DRAWER AND CUPBOARD UNIT 40" H AND 48" W	2
3	CDU-3210	CUPBOARD UNIT 32" H	2
4	CDU-3226	90 DEGREE RADIUS CORNER UNIT 32" H	2
5	CDU-3203 W/ A-19 & A-20	DOUBLE WIDTH PATRON DESK W/ HANGING BOX / FILE DRAWER & PENCIL DRAWER 32" H	2
6	CDU-3205	BOOK RETURN UNIT 32" H	1
7	BT-D32	ELEMENTARY HEIGHT DEPRESSIBLE BOOK TRUCK	1

JOB: BVSD - LAKEWOOD V2

DEALER: SSI

DATE: 11/13/15





KEVIN COWAN
ARCHITECTS

Tuesday November 10, 2015 9:00am

[MANDATORY]

PRE-BID MEETING AGENDA for BVSD 2016 Flooring Replacement – PHASE A

Summer 2016 – Blue Valley High School, Blue Valley West High School, Lakewood Middle School, Leawood Middle School, Pleasant Ridge Middle School, Prairie Star Middle and Sunrise Point Elementary School.

Bid Date, Monday November 23rd, 2015 @ 2:00pm – Bison Room

A. Introductions

BVSD – Dan Drake – Project Manager

KCA – Kevin Cowan – Project Manager

KCA – Bob Taylor – Construction Administrator

Cell - 816-835-7789

B. Project Description (Spec Section 00100-1)

Summer 2016

Blue Valley West High School (BVW)

Remove existing flooring materials and provide/install new carpet at select Classrooms and hallway and admin. area, new rubber treads/ risers at multiple stairs, grind and polished concrete in stairwells at floor levels and new resilient base and accessories.

Blue Valley High School (BVH)

Remove existing flooring materials and provide/install new carpet at Admin offices, rubber tile and new resilient base and accessories. Remove, store and reinstall systems furniture.

Lakewood Middle School (LKM)

Remove existing flooring materials and provide/install new carpet at Administrative Offices and Media Center, new circulation and minor vct repair.

Leawood Middle School (LMS)

Remove existing flooring materials and locker bases and provide/install new resinous w/ integral base flooring and accessories. Disassemble and store lockers in hallway, pour new locker bases and reinstall lockers. Remove, store and reinstall toilet partitions. Pull and reinstall existing fixtures affected by new flooring.

Pleasant Ridge Middle School (PRM)

Remove existing flooring materials and provide new polished concrete flooring at the Commons and new resilient base and accessories.

Prairie Star Middle School (PSM)

Remove existing flooring materials and provide/install new resinous flooring w/ integral base and accessories. Remove, store and reinstall toilet partitions. Pull and reinstall existing fixtures affected by new flooring.



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rise
Sunset Point School (SPE)

Remove existing flooring materials and provide/install new carpet at Classrooms and hallways, new rubber flooring at various wet areas, new resilient nosings, new walk off flooring and new resilient base and accessories.

C. Schedule (Spec Section 01100-1&2)

Blue Valley West High School (BVW)

5/31 – **Tuesday**. Contractor begins

7/5 – **Tuesday**. Substantial Completion – Main Level

7/20 – **Wednesday**. Substantial Completion – Upper Level

Blue Valley High School (BVH)

Phase 1

6/9 – **Thursday**. Contractor begins (6 pm)

6/11 – **Saturday**. Substantial completion (3 pm)

Phase 2

6/16 – **Thursday**. Contractor begins (6 pm)

6/18 – **Saturday**. Substantial Completion (3 pm)

Phase 3

6/23 – **Thursday**. Contractor begins (6 pm)

6/25 – **Saturday**. Substantial Completion (3 pm)

Lakewood Middle School (LKM)

6/3 – **Friday**. Contractor begins

6/29 – **Wednesday**. Substantial completion

Leawood Middle School (LMS)

5/31 – **Tuesday**. Contractor begins

6/20 – **Monday**. Substantial completion

Pleasant Ridge Middle School (PRM)

7/5 – **Tuesday**. Contractor begins

7/28 – **Thursday**. Substantial completion

Prairie Star Middle School (PSM)

7/12 – **Tuesday**. Contractor begins

8/1 – **Monday**. Substantial completion

Sunrise Point Elementary School (SPE)

6/1 – **Wednesday**. Contractor begins

7/7 – **Thursday**. Substantial completion

E. Invitation to Bidders/Bid Form

a. Bid Date: Monday, November 23rd, 2015 @ 2:00pm – Bison Room

b. Alternates: None



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- c. Addenda – (4 days prior to bid) To be issued Tuesday, November 17th.
- d. Unit Prices Listed: 16 unit prices...see Bid Form 00410-1
- e. Cash Allowance: None
- g. Submit Contractors Qualification Statement A305, Bid Bond A310
- h. Liquidated Damages– Start from Date of Substantial Completion and is \$2,500 a day per project, per site.
- i. Contact Dan @ 913-239-4550 to schedule access into any school.
- j. District school access announcement distributed.

F. Instructions to Bidders

- A. Interpretation or clarifications of Bidding documents shall be submitted in writing 7 days prior to bid: Monday November 16th.
- B. Substitution Requests: - Pre-Bid. Required 10 days prior to bid
- C. Bid Bond is required in the amount of at least 5% of Bidders proposal
- D. Performance and Payment Bond required in the amount not less than Contract Sum

G. Questions:

yes – Add/Deduct ^{all} unit prices.

- GC responsible furniture shown on library @ LKM, SPE;
Rest by Owner and his sub.

2016 Flooring Packages A & B Site Visits

Phase A & B Locations will be accessible to contractors from 4pm to 9pm on the following dates:

November 11, 12, & 13

Custodians will be in the buildings and available to open front doors and rooms as required. Please make contact with custodians prior to visiting locations. Pager numbers for custodians are listed below. **Front doors will remain locked at all times so please make contact with custodians prior to visiting schools.**

At the end of day on November 11, 12, & 13 contractors are to provide an e-mail to Dan Drake & Bob Taylor listing the building(s) visited on that day. btaylor@kcarch.com DBDrake@bluevalleyk12.org

Phase A

BVH- 816-989-1148
BVW- 816-989-0071
LKM- 816-989-4316
LMS- 816-989-1158
PRM- 816-989-2586
PSM- 816-989-0816
SPE- 816-840-4984

Phase B

BVNW-816-989-1150
HES- 816-989-1154
HRT- 816-989-1907
LVE- 816-840-7709

