CORONA-NORCO UNIFIED SCHOOL DISTRICT

CARPET INSTALLATION AND RESILIENT FLOORING

APPENDIX A
BID SPECIFICATIONS/DRAWINGS

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BID INFORMATION AND PROJECT PAGE

CHAPTER ONE COMPONENTS

- Bid Information Sheet
- Color Clarification Sheet

BID INFORMATION SHEET

I. Bid Deadline: 3:00 pm, December 7, 2018. Bids shall be delivered to the Purchasing Department, Corona-Norco Unified School District, 2820 Clark Avenue, Norco, CA, 92860.

II. Job Conference

A. Conference Date: November 15, 2018

B. Time: 9:00 am (Bidders required to sign in and out).

C. Location: Corona-Norco Unified School District, Business Conference Room, 2820 Clark Avenue, Norco, CA, 92860. District Contact: Peace Aneke, Director, Purchasing Department. 951-736-5050

III. DIR Requirements:

A. Prevailing wages applicable

B. Current DIR Registration number

C. PWC-100 to be filed by District upon award

D. eCertified Payroll Reports to be completed by Contractor

E. License classification – C-15 (Floor and Floor Covering)

IV. Sites to receive new flooring

A. See Chapter 4, Site Locations & Estimated Proposed Scope and Maps for school site locations.

V. Description of the project

A. The District is seeking bids for the removal and replacement of existing floor covering, in addition to securing VCT, sheet vinyl, wallbase for a complete floor covering installation. See Appendix A for full description of materials, preparation, installation requirements and District provided products.

B. Work hours are 6:00 am – 9:00 pm

C. AHERA / As Builds reports

VI. Geo Tile (walk-off) Matting (owner supplied or equivalent by Contractor)

A. Owner Supplied.

B. Delivered to the contractor and/or contractor to will call in La Verne, California.

C. Single standard door entryway will have a 6' x 6' installation area.

D. Double door entryway will have 8' x 6' installation area.

VII. Carpet Material (owner supplied)

A. Owner Supplied.

B. Yardage provided by the contractor.

C. Delivered to the contractor and/or will called in La Verne, California.

VIII. Basis of Award – The District intends to award a three (3) year contract with two (2) optional one-year terms, for a maximum of five (5) year term to the Contractor offering the lowest responsible bid, meeting District specifications.

IX. References to "Owner" and "District" shall be the Corona-Norco Unified School District.

COLOR CLARIFICATION SHEET

I. Soft surface flooring – 6’ Powerbond cushion RS or Carpet Tile – Crayon “Outside the Lines” with Antron yarn fibers.

II. VCT (Vinyl Composition Tile) to be selected from the tile line specified.

III. Geo Tile Mat System – Charcoal

IV. 4' Burke Rubber Wall Base – Black

V. Transition Strips – Black

   A. Snapdown reducer strips are to be utilized.

   B. Track system is to be nailed to the substrate.

VI. Sheet vinyl 6' roll goods – To be selected from the tile line specified.

   A. All sheet vinyl is to have heat welded seams and metal cove caps.

   B. Cove stick is to be used on all installations where material is to be coved.

SUPPLEMENTAL LABOR CONDITIONS

Chapter 2

I. Carpet material is to be Tandus "Powerbond." Backing material is to be Mark One with RS adhesive pre-applied to 100% of the backing at the time of manufacture.

II. Carpet material and geo tile matting are to be supplied by the owner (school district).

III. Bidding contractors will be responsible for:

A. All other items needed for a completed job shall be provided by the contractor such as wall base, reducers, floor sundries, patching material, etc.

B. Plan take-off, proper estimates for yardage, material, and labor needed to complete job. Contractor will be held responsible to the original estimate.

C. Seam diagrams for all applications except 12’ x 12’ VAT tile.

D. Supplying all materials with the exception of the carpet material and geo tile matting.

E. Contractor is required to be certified by Tandus for the installation of Powerbond backing systems. Every installer on the job must carry a current certification card indicating his or her personal name. Also, the contractor must have a letter from Tandus stating that the award winning flooring contractor meets all certification requirements. This letter must be part of the bid submittal package.

F. Contractor will be required to receive owner supplied materials at the contractor’s warehouse 6-8 weeks prior to the scheduled installation date. Contractor must have adequate warehouse and storage facilities.

G. Contractor must provide warehouse facilities that are adequate to store carpet and matting material. Warehouse facilities must be insured and bonded. Certification will be required showing that the carpet material is insured for 100% of its value. Contractor must supply insurance for all district owned stored material.

H. The contractor will be responsible for all flooring sundries and floor preparation materials.

I. The contractor will be responsible for all flooring preparation labor. Contractor’s price is to include two (2) man-hours per hundred square yards for floor prep.

J. The contractor will be responsible for all proper equipment to receive and deliver material to the job sites.

K. The contractor will be responsible for all deliveries of all district owned and contractor stored materials to all job sites. This includes all projects designated within the bid document.

L. The contractor will be responsible for insuring the district owned material when delivering and transporting goods.

M. The contractor will be responsible for all wall base material and installation.

N. The contractor will be responsible for providing reducers/transition materials that utilize an aluminum track and snap down system.

O. The contractor will be responsible for following the manufacturer's installation instructions exactly for all materials utilized.

IV. Carpet material will have varying dye lots based on project size.

V. Carpet material will be installed over several different substrates to include: wood, VAT, and concrete. Contractors will be responsible for contacting the manufacturer for the correct installation specifications for each substrate application.

VI. If applicable, contractor will be responsible for the removal and disposal of existing carpet where new carpet will be installed.

VII. Contractor must have available resources to meet a minimum of 107 yards of installation per day and a maximum of 1,070 yards per day. Labor requirements vary on a daily basis.

VIII. In addition to receiving and storing district supplied materials the contractor may be required to pick up owner supplied materials at designated loading docks in La Mirada and/or Chino, California.

IX. Contractor will be responsible for storing all owner supplied material for the term of the contract at no charge to the District. All carpet overages or waste exceeding the size of 6' x 10' shall be labeled and stored by the contractor. Remaining materials will be delivered to the District when requested or at termination of contract.

X. All warranties must be submitted with payment requests in order to process payment. Warranties shall indicate site, location, room number, purchase order number, contract number, and date of installation.

XI. Contractor shall be responsible for the labor and warranty it for ten (10) years non-prorated. The ten (10) year labor warranty is to read as follows: contractor has been responsible for the application of materials, materials have been installed per manufacturer specifications and they meet the integrity level set forth by the manufacturer. This includes proper application of wall base, thresholding, carpet, sheet vinyl, VCT, and any other flooring materials contracted.

XII. Contractor is responsible for identifying any inherent abnormalities relating to manufacturer supplied products such as carpet, tile, adhesive, etc. The District must be notified prior to installation in the case where materials may compromise the proper application of flooring.

XIII. Contractor shall ensure that wall base, thresholding, and carpet applications are installed correctly per plan specifications and manufacturer's recommendations.

XIV. The District may require concrete vapor emission testing. Contractor will utilize calcium chloride tests. The cost of calcium chloride tests shall not exceed $40.00 per test. Each test must include pH results.

XV. Contractor will give a minimum of three (3) days notice prior to any installation schedule changes.

XVI. No change orders or additional payments will be considered.

FLOORING SPECIFICATIONS

Chapter

3

HYBRID SOFT SURFACE FLOOR PRODUCTS

Owner Supplied (Information Only)

1.1 VCTT (Variable Cushion Tufted Textile) Aragon Blue Shadow

A. Provide ONLY those products that meet the specification herein. NO SUBSTITUTES.

B. VCTT Sheet floor covering:

1. Link engineered, heterogeneous closed cell thermoplastic cushion with surface wear layer composed of tufted continuous filament nylon and installed with molecularly bound seams to provide a monolithic appearance.

C.	Surface Texture:	Level or Textured loop, 100% Nylon with modification ration of 1.5 for soil release capabilities.
D.	Wear Layer Thickness:	0.109 inch – 0.187 inch per ASTM D418, Section 12.
E.	Sheet Width:	6 feet (1.8 M).
F.	Material Composition:	Wear layer and cushion fully fused under heat and pressure and warranted against delamination. Provides a Radon reduction barrier and meets the EPA definition of enclosure for asbestos, including molecular bound seams.
G.	Delamination:	No delamination per ASTM D-3936.
H.	Seaming Method:	Manufacturing seaming compound.
I.	Seam Integrity:	Provide independent test results. Phillips Chair Test; No seam separation after 50,000 cycles. Moisture Penetration by Impact at SEAMS @ 10 psi; No penetration after 10,000 impacts. The British Spill IS NOT an acceptable measurement for moisture barrier.
J.	Cushion Type:	Closed Cell Cushion ONLY; NO LESS than 0.156 inches thick.
K.	Compression Set:	ASTM D-1667: Max-10%, with Compression Deflection ASTM D-1667; Min 7 lbs./sq. inch at 25%.
L.	R-Value:	ASTM C-177: 0.68 or higher.
M.	Static Coefficient of Friction:	ASTM C-1028: Passes ADA requirements.
N.	Static Propensity:	AATCC 134: 3.5 KV or less.
O.	Flooring Radiant Panel:	ASTM E-648 or NFPA 253: Class 1.
P.	Acoustic Requirements:	Noise Reduction Coefficient (NRC): 0.20 Minimum.
Q.	Installation System:	Adhesive must meet CRI Green Label Plus requirements. A peel & stick method applied to the back at the time of manufacture is preferred.
R.	Antimicrobials:	Antimicrobials are EPA registered pesticides. Antimicrobial additives are not are not allowed during the manufacture of these flooring products. Provide test results showing NI rating per test ASTM E-2471-05 indicating no efficacy. Installation adhesives are exempt from this section.
S.	Indoor Air Quality:	Must meet the indoor air quality requirements in California's Section 01350 Specification.
T.	Sustainability:	All product claims must comply with the US Federal Trade Commissions' Guides for the Use of Environmental Marketing Claims (CFR Title 16 part 260).
U.	Recyclability:	VCTT to be 100% recyclable. Company to have an in-place, operational recycling program for product (at the end of its useful life). Program shall recycle 100% of the product in the same operation. The program shall not consist of incineration (including waste-to-energy).

COMMERCIAL VINYL COMPOSITION TILE

Arteffect, Excelon[1] and Standard Excelon[2] or Equal

1.01 GAUGE: 1/8 / 0.125 (3.2 mm)

2.01 TILE SIZE: 12 x 12

3.01 USE: Commercial

4.01 INSTALLATION LOCATION: All grade levels

5.01 SYSTEM: Vinyl Composition Tile

6.01 FEATURE STRIPS

A. 1

B. 2

C. 6 x 24

7.01 ADHESIVE

A. S-89

B. S-515

C. S-700

D. S-750

8.01 SPECIAL PRECAUTIONS AND RECOMMENDATIONS

A. Refer to the Vinyl Composition Tile Installation System in Section V for complete installation recommendations.

B. For best overall visual, install STONETEX, and ARTEFFECTS with directional arrows pointing in the same direction.

C. Do not install over existing below-grade tile.

D. Use only S-515 or S-750 over existing resilient flooring.

E. Armstrong Commercial Flooring is used in many applications where it is subjected to heavy concentrated static and dynamic loads.

F. For questions regarding product suitability and detailed instructions for floor preparation and installation in these type of applications, please contact Armstrong.

1. Companion Square, Feature Tile/Feature Strips, and Stonetex

2. Imperial Texture and MultiColor

HOMOGENEOUS COMMERCIAL SHEET FLOORING

Meditech and Medipoint

1.01 GAUGE: 0.080 (2.0 mm)

2.01 MEDINTECH and MEDINPOINT WIDTH: 6' (1.8 m)

3.01 USE: Commercial

4.01 INSTALLATION LOCATION: All grade levels

5.01 SYSTEM: Commercial Vinyl-Backed

6.01 PATTERN MATCH: No, reverse pieces (TM edge to TM edge)

7.01 SEAM METHOD: Recess scribe

8.01 SEAM TREATMENT: Heat weld

9.01 FITTING: All methods

10.01 ADHESIVES

A. S-575

B. S-580 in flash cove areas only

C. S-240 in concentrated static and dynamic load areas

11.01 SPECIAL PRECAUTIONS AND RECOMMENDATIONS

A. Refer to the Commercial Vinyl-Backed Installation System in Section V for complete installation recommendations.

B. MEDINTECH and MEDINPOINT may be used in environmental conditioning units. Refer to the Commercial Vinyl-Backed Installation System in Section V.

C. Do not install over existing on-grade or below-grade tile.

D. Armstrong Commercial Flooring is used in many applications where it is subjected to heavy concentrated static and dynamic loads. For questions regarding product suitability and detailed instructions for floor preparation and installation in these type of applications, please contact Armstrong.

COMMERCIAL FELT - BACKED SHEET

Installation System

Product	Securabond Heat S-235 in field area; 5-200 at seams	Weld/Full Spread S-235 full spread
MEDINTECH Tandem		X
POSSIBILITIES	X	X
Classic CORLON	X	X
Sandoval		
Seagate		
Suffield		
Connection CORLON	X	X

1.01 SUITABLE SUBSTRATES

A. All suitable substrates listed below must be properly prepared and meet the requirements discussed in Section IV., Sub floors and Underlayments.

B. There may be exceptions and special conditions for these substrates to be suitable for the Commercial Felt-Backed Sheet Installation System.

1. Concrete
2. Steel, Stainless Steel, Aluminum
3. Approved Suspended Wood Lead, Copper
4. Brass, Bronze
5. Polymeric Poured (seamless)
6. Ceramic Tile, Terrazzo, Marble Floors
7. Existing Resilient Floors

1.02 JOB CONDITIONS/PREPARATION

A. Substrates must be dry, clean, smooth, and free from paint, varnish, wax soils, solvents, and other foreign matter.

B. In renovation or remodel work, remove any existing adhesive residue* so that 80% of the overall area of the original substrate is exposed.

C. Allow all flooring materials and adhesives to condition to the room temperature a minimum of 48 hours before starting the installation.

D. The area to receive resilient flooring should be maintained at a minimum of 65°F (18°C) and a maximum of 100°F (38°C) for 48 hours before, during, and for 48 hours after completion.

E. During the service life of the floor the temperature should never fall below 55°F (13°C). The performance of the flooring material and adhesives can be adversely affected below this minimum temperature.

F. Conduct calcium chloride tests. Bond Tests should also be conducted for compatibility with the substrate. For removal instructions, refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings."

1.03 FITTING

A. Keep all materials rolled face out until ready to begin the installation.

B. Do not lay pieces flat for an extended period of time.

C. All pieces must be adhered within four (4) hours of cutting and fitting.

D. Before installing the material, plan the layout so seams fall at least 6 inches away from sub floor/underlayment joints.

E. Do not install over expansion joints.

F. When installing over an existing resilient floor, plan the layout so the new seams are a minimum of 6 inches away from the original seams.

G. When going over tile floors, seams should fall in the center of the tile.

H. Recommended fitting procedures include pattern scribing and straight scribing.

1.04 ABUTTING DIFFERENT GAUGES OF RESILIENT FLOORING

When installing thinner gauge material next to thicker gauge materials, install thicker material first and then butt a 12 inch wide piece of S-153 Scribing Felt against the thicker material. Adhere the Scribing Felt to the sub floor with S-235 Adhesive. Use the fine notching of the Armstrong S891 Trowel over nonporous substrates such as existing resilient flooring, and use the regular notching of the Armstrong S-891 Trowel over porous sub floors such as wood and concrete. Use Armstrong S-184 Fast-Setting cement-Based Patch and Skim Coat or S-194 Patch, Underlayment and Embossing Leveler to feather the edge of the S-153 Scribing Felt to the level of the substrate. Allow the patch to dry completely before installing the flooring. Scribing Felt is not recommended under the entire installation.

1.05 ADHESIVE OPEN TIMES AND TROWEL NOTCHINGS

Adhesive	**Porous**	**Nonporous**
S-235	Open Time: 0 - 20 minutes over wood or concrete Regular notch: 1/16" deep, 1/16" wide, 3/32" apart	Open Time: 10 - 20 minutes over existing resilient flooring or other nonporous substrates Fine notch: 1/32" deep, 1/16" wide 5/64" apart
S-200	Open Time: None Recommended S-50 Notched Spreader or V-Notch Trowel	Open Time: None Recommended S-50 Notched Spreader or V-Notch Trowel
S-580	Open Time: Minimum of 20 - 30 minutes Brush-On	Open Time: Minimum of 20 - 30 minutes Brush -On

1.06 PROCEDURE

A. Cut pieces to the proper length, allowing enough material at each end to flash 1 ½ inch up the walls for fitting.

1.07 FULL SPREAD/HEAT WELDED SEAMS

A. Full-Spread S-235; optional S-580 in flash cove areas.

B. Recess scribe seams slightly open ($\frac{1}{64}$ inch) to make guiding the router easier.

C. Wait a minimum of 10 hours before heat welding.

D. Fit piece #1 and position in room. Prepare the seam edge by trimming the factory seam edge using the S-33 Edge Trimmer.

E. Draw a pencil line on the sub floor at the trimmed factory edge. Carefully tube or lap the material back halfway to expose the sub floor.

F. Starting at the lap point and working toward the end wall, apply the S-235 Adhesive up to the pencil line. Allow the recommended open time before placing the material into the adhesive.

G. Starting at the center and working toward the edges, roll the material in two (2) directions using a 100-lb roller. Clean adhesive residue from the surface of the flooring using a clean, white cloth dampened with a neutral detergent and water.

H. Repeat steps C and D for the remaining half of piece #1.

I. Reverse pieces. Install pieces TM edge to TM edge.

J. Overlap piece #2 to piece #1 approximately ½ inch to 1 inch. Prepare the seam edge on the opposite side of the sheet by trimming the factory seam edge using the S-33 Edge Trimmer.

K. Repeat steps B through D.

L. Starting at the center and working toward the edges, roll the material in two directions (staying 2 inches from the seam) using a 100-lb roller. Clean the adhesive residue from the surface of the flooring using a clean, white cloth dampened with a neutral detergent and water.

M. Recess scribes the half of the seam that is adhered using an S-83 Recess Scriber. Seams may be recess scribed slightly open ($\frac{1}{64}$ inch) to make guiding the router easier.

N. Insert a piece of scrap material beneath the scribe mark. With the scrap on the same side as the cutting hand, cut the seam holding a straight blade knife straight up and down. Roll the seam into place before the adhesive dries using an S-77 Hand Roller and roll again with a 100-lb roller.

O. Repeat steps C through D and J through K for the remaining half of piece #2.

P. Remove the burr at the seam by carefully skiving with the back of the S-92 Knife.

Q. Follow the same procedures for the remaining pieces, completing one (1) piece at a time until the job is finished.

R. Flooring should not be exposed to rolling load traffic for at least 72 hours after installation to allow setting and drying of the adhesive.

1.08 SECURABOND

A. Apply S-235 in the field areas with S-200 at the seams; optional S-580 in flash cove areas with S-200 at the seams, floor drains, doorways, and field cuts.

B. Recess scribe seams net.

C. Before installing the material, plan the layout so seams fall at least 6 inches away from sub floor/underlayment joints. Do not install over expansion joints.

D. When installing over an existing resilient floor, plan the layout so the new seams are a minimum of 6 inches away from the original seams. When going over existing tile floors, seams should fall in the center of the tile.

E. Fit piece #1 by pattern scribing or straight scribing methods.

F. Prepare the seam edge by trimming the factory seam edge using the S-33 Edge Trimmer.

G. Draw a pencil line on the sub floor along the trimmed factory edge.

H. Carefully lap the material back halfway to expose the sub floor.

I. Mix S-200 Part A and Part B together with a stirring motion while at the same time lifting from the bottom. Mix thoroughly for three (3) to five (5) minutes to a uniform color. Do not over mix. Do not leave mixed adhesive in cans as it shortens pot life, working time, and may generate excessive heat.

J. Apply a 4 inch band of S-200 Adhesive (2 inches on each side of the pencil line) using the S-50 notched spreader of the "L" Disposable Spreader. Working time of the S-200 Adhesive after spreading is approximately three (3) hours.

K. Starting at the lap point, working toward the end wall, using the proper notching of the S891 trowel, apply the S-235 Adhesive up to the S-200.

L. Allow the recommended open time before placing the material into the adhesive.

M. Starting at the center and working toward the edges, roll the material in two (2) directions using a 100-lb roller. Clean adhesive residue from the surface of the flooring using a clean, white cloth dampened with a neutral detergent and water.

N. Repeat steps H through K for the remaining half of piece #1.

O. Cut piece #2 to the proper length.

P. Reverse pieces. Install pieces TM edge to TM edge.

Q. Overlap piece #2 to piece #1 approximately ½ inch to 1 inch. Prepare the seam edge on the opposite side of the sheet by trimming the factory seam edge using the S-33 Edge Trimmer.

R. Repeat steps E through K for adhering piece #2.

S. Starting at the center and working toward the edges, roll the material in two (2) directions (staying 2 inches from the seam) using a 100-lb roller. Clean adhesive residue from the surface of the flooring using a clean, white cloth dampened with neutral detergent and water.

T. Repeat steps H through K for the remaining half of piece #2.

U. Recess scribe all seams net, using an S-83 Recess Scriber.

V. Insert a piece of scrap material beneath the scribe mark. With the scrap on the same side as the cutting hand, cut the seam holding a straight blade knife straight up and down.

W. Roll the seam into place using an S-77 Hand Roller and roll again with a 100-lb roller.

X. Remove the burr at the seam by carefully skiving with the back of the S-92 knife.

Y. Follow the same procedures for the remaining pieces, completing one (1) piece at a time until the job is finished.

1.09 SECURABOND CHECKLIST:

A. Handling

1. Roll material face out after cutting.
2. Do not lay pieces flat for extended time.
3. Do not preshrink pieces by rolling face in. Rolling material face in will cause edges to curl.
4. When precutting, roll face out.
5. Install and adhere material in place immediately after fitting.

B. Adhesives

1. Do not fold seam edges back sharply when spreading S-200.
2. Spread S-235 with recommended notching of the S-891 or S-892 notched steel trowel.
3. Too much adhesive can contribute to peaked seams.
4. Allow adequate open time for S-235 Adhesive.
5. Open times helps prevent bubbles and lessens the chance of peaked seams.
6. Roll thoroughly with 100-lb roller.

C. Seams

1. Recess scribe seams net after applying S-235 Adhesive, with S-200 under all seams, doorways, and field cuts.
2. Cut edges vertically, hold knife straight up and down.
3. Do not undercut seams or use notched blade knife.

COMMERCIAL LINOLEUM SHEET FLOORING

Marmorette, Decorette, Granette, Uni Walton, Colorette, Linorette and Linodur

1.01 GAUGE

A. ARMORETTE: 0.080 (2.0 mm), 0.100 (2.5 mm), and 0.125 (3.2 mm)

B. GRANETTE, DECORETTE, COLORETTE, UNI WALTON: 0.100 (2.5 mm), and 0.125 (3.2 mm)

C. LINORETTE: 0.100 (2.5 mm)

D. LINODUR: 0.160 (4.0 mm)

2.01 WIDTH: 6'7" (2 m)

3.01 USE: Commercial

4.01 INSTALLATION LOCATION: All grade levels

5.01 SYSTEM: Commercial Linoleum Sheet Flooring

6.01 PATTERN MATCH: No: Do not reverse pieces (TM edge to non-TM edge)

7.01 SEAM METHOD: Recess scribe

8.01 SEAM TREATMENT

A. Heat weld (recommended) or,

B. S-761 Seam Adhesive or,

C. No seam treatment

9.01 FITTING: All methods

10.01 ADHESIVES

A. S-760 or,

B. Optional S-580

C. Flash cove areas only S-240 for LINODUR in industrial areas or in concentrated static and dynamic load areas.

11.01 SPECIAL PRECAUTIONS AND RECOMMENDATIONS

A. Refer to the Commercial Linoleum Sheet Flooring Installation System in Section V for complete installation recommendations.

B. When installing several rolls in one (1) area, make certain the batch numbers are the same. Also read the sequence numbers and only install rolls that are within twenty (20) numbers of each other. Install the rolls in sequential order.

C. The lines on the back of Linoleum represent trademark edges.

D. Linoleum will grow slightly in the width and shrink slightly in the length of the material when placed into the wet adhesive. Following the recommended installation procedures will help compensate for this movement.

E. Heat welding is optional, but required in areas exposed to direct sunlight, in areas exposed to topical moisture and/or temperature fluctuations and when installed over radiant heated sub floors.

F. Do not install Linoleum over existing on-grade or below-grade tile.

G. When installing LINODUR in industrial areas, use S-240 Epoxy Adhesive Full-Spread and heat weld all seams.

H. Armstrong Commercial Flooring is used in many applications where it is subjected to heavy concentrated static and dynamic loads. For questions regarding product suitability and detailed instructions for floor preparation and installation in these type of applications, please contact Armstrong.

GEOMETRIC TILE

TRIAD® Mat Series

Face Construction	Imperial	Metric
Construction	Molded Reinforced Needlepunch Textile	
Size	18” x 18”	45.7 cm x 45.7 cm
Texture / Pattern	Rubber Reinforced Geometric Pattern	
Pile Height	0.250 inch	6.5 mm
Fiber System	100% Premium Polypropylene	
Dye Method	Solution Dyed	

1.01 TRIAD BACKING SYSTEM

Backing	Special Non-Thermoplastic Tri-Grip™ Cleated SBR	
Total Product Weight	35.0 oz/sq yd +/- 5%	4576.5 g/sq m

1.02 PRODUCT TESTING/INFORMATION

Surface Flammability	Passes CPSC FF 1-70	(ASTM D-2859)
Flooring Radiant Panel	Class 2 (mean average CRF: 0.22 w/sq cm to 0.44 w/sq cm)	(ASTM E-648)

Not recommended for use in buildings requiring Class I per ASTM E-648.

1.03 INSTALLATION NOTE

A. Product to be installed using a full-spread solvent-free releasable or permanent adhesive.

1.04 PRODUCT NOTES

A. Product specifications are derived from averages resulting from normal manufacturing tolerances in yarn, fiber, temperature, humidity, and color, and may vary within normal industry and standardized testing tolerances.

B. These specifications reflect mean averages based on tests of production runs of this carpet style by independent laboratories. A range of variances is implicit in the testing process.

C. Furthermore, the standard test methods established to derive the specifications lack a high degree of precision and repeatability; therefore, individual test results on the actual carpet purchased may vary above or below the mean average.

D. Colors may vary slightly from dye lot to dye lot.

E. Backing or other materials may be changed without prior notice when shortages occur or when technological advancements become available which provide for improvement of the product's performance.

F. Not recommended for use in areas exposed to grease or petroleum products.

1.05 ANTI-MICROBIAL / PESTICIDES USAGE

A. Regarding carpet material and soft-surface floor covering, to include carpet tile and 6' roll goods.

B. Registered pesticides and/or anti-microbial shall not be used. The district requires that carpet material is free of all migrating pesticides or the use of registered pesticides in carpet material.

MONDO RUBBER FLOORING SPECIFICATION

1.01 PRODUCT DESCRIPTION

A. Prefabricated rubber flooring, calendared and vulcanized with a base of virgin natural and/or synthetic rubber, stabilizing agents, and pigmentation, as manufactured by MONDO AMERICA INC. or approved equal.

B. Thickness: *available in 3mm, 4mm, 5mm, 6mm, 8 mm, 10 mm, 12 mm, and 14mm*.

C. Finish: Slate, Smooth, Sealskin, Hammered, Track Embossing, and Sealskin Embossing.

D. Available in rolls or tiles.

1.02 PHYSICAL PROPERTIES

A. Physical properties of the prefabricated athletic rubber floor, to conform to the following requirements:

PHYSICAL PROPERTIES	STANDARD	SPECIFICATION
Critical Radiant Flux	ASTM E648, NFPA 101	0.70 W/cm^2, Type I
Optical Smoke Density	ASTM E662	< 450, Class I
Fungal Resistance Test	ASTM G21	No growth
Coefficient of Friction	ASTM D2047	> 0.45
V.O.C. Compliance	ASTM D5116	Yes
Color Stability		Good
Light Reflection		Average
Chemical Resistance		Good

1.03 MATERIAL

A. Provide adhesive certified by the manufacturer, P.U. 100 Polyurethane Adhesive, EP 55 Epoxy Adhesive, MP Acrylic Adhesive (refer to Instruction Manual of Adhesives provided by manufacturer).

B. Patching compound and/or line marking paint, to be supplied or approved/recommended by rubber athletic flooring manufacturer.

1.04 EXAMINATION AND PREPARATION

A. The procedures listed below must be ensured prior to installation of the primary product.

B. Concrete or Asphalt substrate to be placed a minimum of thirty (30) days prior to the installation of athletic rubber floor.

C. No concrete or asphalt sealers or curing compounds are applied or mixed with the sub floors (refer to Section 03050 of Division 3 and/or Section 02065 of Division 2).

D. The Underlayment is adequate (if installing over wood sub floors). APA Exterior Underlayment Grade Plywood is recommended.

E. Water vapor membrane complies with specification in ASTM E 1745.

F. Alkalinity test and moisture test must be preformed. PH level should be in the range of 7 to 8.5. Moisture content must not exceed 3 lbs/1000 ft^2 per 24 hrs (verify using the calcium chloride test as per ASTM F 1869).

G. Smooth, dense finish, highly compacted with a tolerance of $\frac{1}{8}$ inch in a 10 ft radius (3 mm in 3.05 m radius). Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized.

H. Concrete or Asphalt sub floor on- or below-grade is installed over a suitable moisture retardant membrane.

I. Sub floors must be clean, free of paint, dust, sealers, hardeners, grease, oil, solvents, old adhesive, and any other foreign substances that may act as a bond barrier.

J. Sealing of cracks, holes and, smoothing and leveling of rough, uneven surfaces, must be carried out using a good quality Portland cement based leveling compound (feathering compound), approved by the manufacturer.

K. The beginning of installation stipulates the acceptance of surface and site conditions.

L. Installation will not be carried out unless above conditions are satisfied.

M. Report any discrepancies to the General Contractor for correction.

1.05 INSTALLATION

A. Review manufacturer's printed instructions prior to installation.

B. Install flooring in accordance with manufacturer's installation instructions.

C. Allow relaxation of material.

D. Inspect sheet for any damages or defects.

E. Always install the flooring in the same direction.

F. Cut and adjust roll flooring prior to installation.

G. All edges on rolls must be straight-edged before adjusting the seams.

H. Mix adhesive in accordance with manufacturer's instructions.

I. Apply adhesive and lay sheets in accordance with manufacturer's installation instructions.

J. Roll flooring in both directions with a 100-lbs (45 kg) sectional floor roller.

K. Check for air bubbles and continue rolling if needed.

L. Roll the seam with a hand roller and remove any excess adhesive that may have come through the seam.

M. Hold all applicable seams in place with suitable weights (concrete utility bricks 2" x 4" x 8") for a minimum of 12 hrs. (see installation manual)

N. Repeat the same procedure for the rest of the installation.

O. Lines to be painted as per manufacturer's instructions.

P. Surface to be protected before, during and after installation until project's acceptance by the owner or his agent.

Q. Allow adhesive to set 72 hrs before the initial cleaning of the surface.

WALL BASE SPECIFICATION

CSI Division 9 Part 2
Product Specification

1.01 RUBBER WALL BASE

A. Specification Insert for BurkeBase® 1/8 inch Molded Rubber Wall Base

B. CSI Division 9, Part 2 Products

2.01 RUBBER WALL BASE

A. Manufacturer/Product: Burke Mercer Flooring Products; ⅛ inch Rubber Wall Base

B. Product/Description

C. Vulcanized thermoset rubber; ⅛ inch (3.175 mm) thickness; satin finish

1. Cove profile: [2 ½ inches (63.500 mm)], [4 inches (101.600mm)], [6 inches (152.400mm)].
2. Straight profile: [2 ½ inches (63.500 mm)], [4 inches (101.600mm)], [6 inches (152.400mm)], [10 inches (254.000 mm)]
3. Length: 48 inches (1219.200 mm)
4. Color: Selection from manufacturer's standard array
5. Substrate adhesives pursuant to Burke Mercer recommendations
6. Conformance:
   a. ASTM F1861-98, Type TS, Group 1, Styles A & B
   b. FS SS-W-40a, Type I, Styles A & B
   c. ASTM E84 Class B rating with smoke density of 150-200

RESILIENT ATHLETIC FLOORING

I. KNOWN MANUFACTURER

A. Johnsonite, Inc., 16910 Munn Road, Chagrin Falls, OH, 44023

B. Phone: (800) 899-8916 or (440) 543-8916

C. Technical Assistance: Ext 9297

D. Samples: Ext 9299

E. Fax: (440) 543-8920

F. Email: info@johnsonite.com

G. Web: www.johnsonite.com

II. ENVIRONMENTAL SUSTAINABILITY NOTES

A. Johnsonite offers a RESTART reclamation program for returning unused jobsite scrap.

B. Vinyl Athletic Sheet contains pre and post consumer recycle content.

C. Rubber Athletic Tile Flooring contains pre consumer recycle content.

D. Rubber Athletic Sheet Flooring contains post consumer recycle content.

E. 100% Recyclable.

F. SCS FloorScore® Certified and meets California Specifications Section 01250.

G. Johnsonite facilities are ISO 9001 and ISO 14001 Certified.

H. For all environmental sustainability information visit ecoScorecard on Johnsonite home page at www.johnsonite.com.

III. HETEROGENEOUS VINYL RESILIENT ATHLETIC SHEET FLOORING: TRAINING

A. Specify – Heterogeneous Vinyl Resilient Athletic Sheet Flooring with the following physical characteristics:

1. Complies with requirements for ASTM F 1303 Standard Specification for Sheet Vinyl Sheet Floor Covering with Backing, Type I Grade 1, Class C.
2. Constructed with a .028" (0.7 mm) thick urethane coated clear wear layer.
3. Roll/Sheet Width: 6' 6" (2 m).
4. Wear layer/Overall thickness: .197" (5.0 mm).
5. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring or 0.6 or greater.
6. ASTM F 970, Standard Test Method for Static Load Limit – 175 PSI.
7. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm2 or greater, Class I.
8. TRN – R: TRAINING Rolls.

IV. RESILIENT RUBBER ATHLETIC SHEET FLOORING: COMMOTION (REPLAY)

A. Resilient Rubber Athletic Sheet Flooring with the following physical characteristics:

1. Manufactured from a composition of recycled truck tire crumb rubber encapsulated in a urethane binder.
    a. Overall thickness:
        i. 1/4" (6.35 mm)
        ii. 3/8" (9.5 mm)
    b. Roll/Sheet Width: 4' (1.22 m).
    c. ASTM D 2240 Standard Test Method for Rubber Property-Durometer Hardness: 65 Shore A.
    d. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring or 0.6 or greater.
    e. ASTM F 970, Standard Test Method for Static Load Limit – passes 250 PSI.
    f. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
    g. ASTM D 2859 Standard Test Method for Ignition Characteristics of Finished Floor Covering Materials (Pill Test): passes with greater than 1" of un-charred area.
    h. COMR: COMMOTION (Replay) Rolls.

V. RESILIENT RUBBER ATHLETIC TILE FLOORING: COMMOTION (REPLAY)

A. Resilient Rubber Athletic Tile Flooring with the following physical characteristics:

1. Manufactured from a composition of recycled truck tire crumb rubber encapsulated in a urethane binder.
    a. Overall thickness: 3/8" (9.5 mm).
    b. Tile texture and color:
        i. Hammered Textured Speckled Color.
        ii. Hammered Textured Solid Color.
    c. Tile style and size:
        i. Square Edge (glue down) 24" x 24" (61 cm x 61 cm).
        ii. Interlocking (loose lay) 23" x 23" (58.42 cm x 58.42 cm).
    d. ASTM D 2240 Standard Test Method for Rubber Property - Durometer Hardness: 65 Shore A.
    e. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring or 0.6 or greater.
    f. ASTM F 970, Standard Test Method for Static Load Limit – passes 250 PSI.
    g. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
    h. ASTM D 2859 Standard Test Method for Ignition Characteristics of Finished Floor Covering Materials (Pill Test): passes with greater than 1" of un-charred area.
    i. COMT: COMMOTION (REPLAY) SQUARE EDGE Tile

j. COMI: COMMOTION (REPLAY) INTERLOCKING Tile

VI. INERTIA RUBBER ATHLETIC TILE

A. Resilient Rubber Athletic Tile Flooring with the following physical characteristics:

1. Complies with requirements for ASTM F 1344 Standard Specification for Rubber Floor Tile Class 1-A and 1-B.
2. Tile manufactured of dual durometer layers composed of 100% synthetic and natural rubber.
3. Tile is two-ply vulcanized construction which incorporates a rubber wear layer and an elastic cushioned performance layer.
   a. Wear layer thickness: .090" (2.3 mm).
   b. Overall thickness:
      i. 1/4" [.250" (6.4 mm)].
      ii. 3/8" [.375" (9.53 mm)].
   c. Square Edge (glue down) Tile Size: 24" x 24" (61 cm x 61 cm).
   d. UnderLock (loose lay) Tile Size: 24" x 24" (61 cm x 61 cm).
   e. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: .6 or greater.
   f. ASTM F 970, Standard Test Method for Static Load Limit – passes 250 PSI.
   g. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
   h. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I.
4. Tile design, texture, and color:
   a. Square Edge (glue down) Hammered Texture Overall thickness: ¼ inch [.250" (6.4 mm)], Solid and Speckled Colors.
   b. UnderLock (loose lay) Hammered Texture Overall thickness: ¼ inch [.250" (6.4 mm)], Solid Color and Speckled Color.
   c. UnderLock (loose lay) Fast Lane Texture Overall thickness $^3/_8$ inch [.0375 (9.53 mm)], Solid Color.
5. INRH: Inertia Hammered Texture, Glue-down Installation Tile
6. INRHU: Inertia Underlock Loose Lay
7. INRCFLU: Inertia Fast Lane Underlock Loose Lay

VII. TRIUMPH RUBBER ATHLETIC TILE

A. Resilient Rubber Athletic Tile Flooring with the following physical characteristics:

1. Complies with requirements for ASTM F 1344 Standard Specification for Rubber Floor Tile Class 1-A and 1-B.
2. Tile manufactured of dual durometer layers composed of 100% synthetic and natural rubber.

3. Tile is two-ply vulcanized construction which incorporates a rubber wear layer and an elastic cushioned performance layer.
    a. Spike and Skate resistant.
    b. Wear layer thickness: .090" (2.3 mm).
    c. Overall thickness: $^{3}/_{8}$" [.375" (9.5 mm)].
    d. Square Edge (glue down) Tile size: 24" x 24" (61 cm x 61 cm).
    e. UnderLock (loose lay) Tile size: 24" x 24" (61 cm x 61 cm).
    f. Interlocking (loose lay) Tile size: 23.5" x 23.5" (59.7 cm x 59.7 cm).
    g. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater.
    h. ASTM F 970, Standard Test Method for Static Load Limit – passes 250 PSI.
    i. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
    j. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I.
4. Tile design, texture, and color:
    a. Square Edge (glue down) Hammered Texture: Solid Color and Speckled Color.
    b. UnderLock (loose lay) Hammered Texture: Solid Color and Speckled Color.
    c. Interlocking (loose lay) Hammered Texture: Speckled Color.
5. SMH: Triumph Hammered Texture, Glue-down Installation Tile.
6. SMHU: Triumph Underlock Loose Lay.
7. SMHI: Triumph Interlocking Loose Lay.

VIII. INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation.

B. Adhesives: As recommended by Manufacturer to meet site conditions.

C. Heterogeneous Vinyl Resilient Athletic Sheet Flooring.

D. Johnsonite #925 Resilient Flooring Adhesive.

E. Johnsonite #975 Two-Part Urethane Adhesive.

F. Resilient Rubber Athletic Flooring.

G. Johnsonite #965 Flooring and Tread Adhesive.

H. Johnsonite #975 Two-Part Urethane Adhesive.

IX. EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.

B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

X. PREPARATION

A. Prepare substrates according to Manufacturer written instructions to ensure adhesion [or acceptance] of Resilient Athletic Flooring.

B. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

C. Remove substrate paint, coatings and other substances that are incompatible with adhesives or contain soap, wax, oil, solvents, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

D. Mechanically remove contamination on the substrate that may cause damage to the resilient athletic flooring material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.

E. Prepare Substrates according to ASTM F 710 including the following:

1. For glue down tile:

   a. Moisture Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

      i. Perform anhydrous calcium chloride test, ASTM F 1869. Results must not exceed 5 lbs. Moisture Vapor Emission Rate per 1,000 sq. ft. in 24 hours. – or –

      ii. Perform relative humidity test using in situ probes, ASTM F 2170. Must not exceed 80%.

      iii. A pH test for alkalinity must be conducted. Results should range between 7 and 9. If the test results are not within the acceptable range of 7 to 9, the installation must not proceed until the problem has been corrected.

   b. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

2. For loose lay (UnderLock, Interlocking) Tile:

   a. The Moisture Vapor Emission Rate (MVER) of the concrete will have no measurable effect on the UnderLock or Interlocking Tile as they are not adhered to the concrete substrate.

   b. Moisture testing must be conducted to identify if the MVER of the concrete is within the approved limits of the patching compound manufacturers specifications. (Follow patching compound manufactures instructions for proper selection and use.)

3. Wood subfloors must have a minimum 19" (47 cm) of cross-ventilated space beneath the bottom of the joist.

   a. The floor must be rigid, free of movement.

   b. Single wood and tongue and groove subfloors should be covered with ¼" (6.4 mm) or ½" (13 mm) APA approved underlayment plywood.

c. Use ¼" (6.4 mm) thick underlayment panels for boards with a face width of 3" (76 mm) or less.

d. Use ½" (76 mm) thick underlayment panels for boards with a face width wider than 3" (76 mm).

e. Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan, or composite type underlayments.

f. Fill cracks, holes, depressions, and irregularities in the substrate with good quality Portland cement based underlayment leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

g. Floor covering shall not be installed over expansion joints.

h. Do not install resilient products until they are same temperature as the space where they are to be installed.

i. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

j. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

XI. RESILIENT ATHLETIC FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient athletic flooring.

B. Resilient Athletic Vinyl and Rubber Sheet Flooring:

1. Install with Manufacturer adhesive specified for the site conditions and follow adhesive label for proper use.

2. Install rolls in sequential order following roll numbers on the labels.

3. Reverse sheets unless instructed otherwise in Manufacturer Installation Instructions.

4. Roll the flooring in both directions using a 100 lb. three-section roller.

5. Resilient Athletic Vinyl Sheet Flooring must be heat welded.

6. Manufacturer Resilient Vinyl Sheet Flooring may be flash coved.

7. Use Johnsonite CFS-00-A Cove Filler Strip.

8. Net fit flooring material into the appropriate Manufacturer cove cap.

C. Resilient Athletic Vinyl and Rubber Tile Flooring:

1. Install with Manufacturer adhesive specified for the site conditions and follow adhesive label for proper use.

2. Do not Quarter Turn tile.

3. Roll the flooring in both directions using a 100 lb. three-section roller.

4. Resilient Athletic Loose Lay UnderLock and Interlocking Tile Flooring:

5. Do not adhere Loose Lay tile to substrate.

6. Roll the flooring tabs with a hand roller.

XII. CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.

B. Perform the following operations immediately after completing resilient product installation:

   1. Remove adhesive and other blemishes from exposed surfaces.

   2. Sweep and vacuum surfaces thoroughly.

   3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. No traffic for 24 hours after installation.

E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.

F. Cover resilient products until Substantial Completion.

G. Wait 72 hours after installation before performing initial cleaning.

H. A regular maintenance program must be started after the initial cleaning.

POLISHED CONCRETE

I. RELATED DOCUMENTS

A. Drawings, general provisions of the Contract, and other related construction documents such as Division 01 specifications apply to this Section.

II. SUMMARY

A. This section includes products and procedures for the installation of the ULTRAFLOR® Polished Concrete System using a multi-step dry mechanical process and accessories specified to achieve specified Level (A, B, or C) gloss finish:

1. DIAMATIC Mechanical Diamond Grinding and Polishing Equipment
2. ARDEX Concrete Repair Materials
3. ARDEX Concrete Topping Treatment Chemicals

B. Related Sections include the following:

1. Section 03 30 00, Cast-In-Place Concrete
2. Section 07 26 19, Topical Moisture Vapor Mitigation

III. SUBMITTALS

A. Product Data

1. Submit manufacturer's product data and installation instructions for each material and product used.
2. Include manufacturer's Material Safety Data Sheets.

B. Qualification Data

1. Provide written documentation from the manufacturer confirming that installer meets the qualifications as specified and is eligible for manufacturer's warranty.

C. Maintenance Data

1. Provide manufacturer's instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under intended use.
2. These instructions should contain precautions against cleaning products and methods that may be detrimental to finishes and performance.

IV. MANUFACTURER QUALIFICATIONS

A. The ULTRAFLOR® ARDEX® DIAMATIC® Polished Concrete System consists of a process and products engineered and manufactured by ARDEX and DIAMATIC.

B. Any substitutions are not permitted and void warranty.

V. INSTALLER QUALIFICATIONS

A. Product(s) for the ULTRAFLOR® ARDEX® DIAMATIC® Polished Concrete System must be installed by an ARDEX DIAMATIC factory trained or approved

installer either as a single source or through a joint venture, including the use of DIAMATIC equipment and diamond abrasives, and ARDEX DIAMATIC concrete preparation, toppings, joint treatment and chemical hardening and finishing materials.

B. Qualified installers may include an ARDEX LevelMaster Elite™ who specializes in the installation of ARDEX products, a DIAMATIC Elite™ who specializes in the use of DIAMATIC polishing equipment or an ULTRAFLOR ELITE™ who has specific experience with the installation of ARDEX DIAMATIC products and systems.

C. Installer must be approved in writing by ARDEX or DIAMATIC and experienced in performing specified work similar in design, products and scope of this project, with a documented track record of successful, in-service performance and with sufficient production capabilities, facilities and personnel to produce specified work.

D. A factory-trained, competent supervisor must be maintained on site during all times during which specified work is performed.

E. For national brand specific projects, Diamatic Management Services (DMS) may be considered for installation management, contractor assistance and advanced project support.

F. DMS: 5220 Gaines Street, San Diego, CA 92110, 866-295-5512, www.diamaticmanagementservices.com.

VI. MOCK-UP

A. Before performing the work in this section, an on-site mock-up representative of specified process, surface, finish, color, and joint design/treatments must be installed for review and approval.

B. These mock-ups should be installed using the same Installer personnel who will perform work. Approved mock-ups may become part of completed work, if undisturbed at time of substantial completion.

VII. PRE-INSTALLATION CONFERENCE

A. Prior to the installation of the ULTRAFLOR Polished Concrete System, an on-site conference shall be conducted to review specification requirements.

B. Required attendees include the Owner, Architect, General Contractor, Subcontractor, ARDEX Representative, and/or DIAMATIC Representative.

C. The minimum agenda shall include a review of the site conditions, construction documents, schedule, installation procedures, protection procedures and submittals.

VIII. WARRANTY

A. Provide manufacturer’s 10 year ULTRAFLOR System Warranty.

IX. DELIVERY, STORAGE AND HANDLING

A. Deliver all materials in original containers, bearing manufacturer’s labels indicating brand name and directions for storage, factory numbered and sealed until ready for installation.

B. Store all materials in a dry, climate-controlled environment at a minimum of 50°F (10°C) and maximum of 85°F (29°C).

C. Handle products in accordance with manufacturer's printed recommendations.

X. SITE CONDITIONS

A. Inspect the existing substrate and document unsatisfactory conditions in writing. Verify that surfaces and site conditions are ready to receive work.

B. Correct unacceptable conditions prior to installation of System.

C. Commencement of work constitutes acceptance of substrate conditions.

D. Close areas to traffic during and after application for a time period recommended by the manufacturer.

XI. REPAIR MATERIALS

A. Where spalls, repair, or minor patchwork is necessary apply ARDEX PC-R™ as necessary and in accordance with recommendations, applied at the appropriate time during the polishing process.

B. If necessary, correct excessive pinholes with ARDEX PC-M™.

C. Contact the ARDEX Technical Services department for recommendations.

XII. CONCRETE POLISH EQUIPMENT & TOOLING

A. Equipment and Tooling for use as part of the multi-step dry mechanical process and accessories.

B. Acceptable products include:

1. DIAMATIC BMG-780 or BMG-735 Planetary Grinder and Polisher.
2. DIAMATIC USA: 5220 Gaines Street, San Diego, CA 92110, 1-866-295-5512, www.diamaticusa.com.
3. Features: Large Platform: 32" planetary floor polisher. Head pressure of 600 lbs.
4. Or equal as recommended by DIAMATIC USA.

C. Required Tooling: DIAMATIC Diamond Abrasives

1. Metal Bonded Diamonds - 60/80 Grit of medium and hard bonded metal.
2. Transitional Diamonds Ceramic Bonded - #1 Grit.
3. Resin Bonded Diamonds - 200, 400, 800, 1500 Grit.
4. DIAMATIC Micro Polisher – Burnishers
5. DIAMATIC USA: 5220 Gaines Street, San Diego, CA 92110, 1-866-295-5512, www.diamaticusa.com.

D. Specific weight and RPM are required to reach temperature of 100°F for application of PC FINISH™.

E. Required Tooling: DIAMATIC FLOR-GRIT® Diamond Impregnated Pads - 800, 1500, 3000 Grit.

F. Other equipment as necessary for small areas and edge work as recommended by DIAMATIC USA.

G. Power generator capable of supplying a minimum output of 30kw and up, and 480 Volt three (3) phase power.

H. All grinding and polishing completed with grinder/polisher equipment should be connected to a dust collector.

I. Note: In some cases, and only with DIAMATIC's approval, burnishing, grinding, and polishing machines may be substituted, provided that the specified DIAMATIC abrasives and blades can still be used.

XIII. CONCRETE TREATMENT CHEMICALS

A. Concrete treatments designed for use in conjunction with the installation of the ULTRAFLOR® Polish Concrete System.

B. Acceptable products include:

1. Treatment Chemicals; ARDEX Engineered Cements: 400 ARDEX Park Drive Aliquippa, PA 15001, 1-888-512-7339, www.ardexamericas.com; DIAMATIC USA: 5220 Gaines Street, San Diego, CA 92110, 1-866-295-5512, www.diamaticusa.com.

2. Densifier: ARDEX PC 50™ or DIAMATIC FLOR-SIL™ Lithium Hardener Densifier for Standard Concrete.

3. Finish Treatment: ARDEX PC FINISH™ or DIAMATIC FLOR-FINISH™ Stain and Wear Protection Treatment (high or low gloss).

4. Maintenance Treatment: DIAMATIC FLOR Maintainer™ Gloss, Stain, and Wear Protectant.

XIV. EXAMINATION

A. Inspect all concrete substrates and conditions under which the ULTRAFLOR® Polished Concrete System is to be installed.

B. Verify that existing concrete has cured a minimum of 28 days before installing the ULTRAFLOR® Polished Concrete and meets the requirement of 3000 psi and 100 pcf.

C. Conduct pre-installation conference, per Section 1.05 C.

XV. PREPARATION / DEMOLITION

A. Clear surfaces of any debris and construction materials.

B. If a generator is not provided by the Installer, power connections for the equipment of the ULTRAFLOR® ARDEX DIAMATIC Polished Concrete System shall be located and prepared by general contractor.

C. Using the appropriate mechanical means and methods, remove existing floor coverings and coatings, including but not limited to carpet VCT, ceramic tile, and grout, wood, epoxy/ urethane, quartz, mastic, adhesives, paint, or other non-concrete floor materials.

D. Adhesives must be removed to their penetrated depth.

E. Note: The mechanical removal of resilient flooring, backing, lining felt, cutback, and other adhesives can be hazardous, as certain materials may contain asbestos or crystalline silica.

F. Do not sand, dry sweep, dry scrape, drill, saw, bead blast, grind, mechanically chip, or pulverize these materials, as harmful dust may result.

G. Inhalation of this dust may cause asbestosis or other bodily harm. Please consult the adhesive manufacturer, the Resilient Floor Covering Institute (www.rfci.com) and all

applicable government agencies for rules and regulations concerning the handling and removal asbestos-containing materials.

H. Prevent any damage to concrete slab surface during demolition from chipping hammers.

I. Existing flooring should be removed mechanically with walk-behind or ride-on scraping equipment.

J. Prepare the existing concrete mechanically by diamond grinding using aggressive, metal bonded DIAMATIC Polycrystalline diamonds (18/20 Grit or 30/40 Grit), to remove all contaminants and provide a sound concrete surface free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants.

K. Chemical preparation of the substrate is NOT acceptable, including but not limited to acid etching, sweeping compounds, solvents, and adhesive removers.

L. Suppress dust during demolition with the use of dust collection equipment to reduce or eliminate airborne concrete and substrate dust.

M. Where existing concrete is cracked, damaged, spalled, not within specified tolerance, or contains unacceptable levels of contaminates or moisture vapor, the Installer of the ULTRAFLOR®ARDEX DIAMATIC Polished Concrete System will evaluate conditions and proceed with appropriate ULTRAFLOR® System components.

XVI. CRACK REPAIRS (Indoor/Outdoor)

A. Crack repair shall be completed after the first metal bond diamond grind and floor cleaning.

B. Cracks to be repaired in the concrete surface shall be crack chased out on a highspeed angle grinder to a minimum depth of $^{3}/_{8}$" and made to eliminate any feathered edges.

C. The edges of the crack may be taped to eliminate possible staining from repair material.

D. Clean out any dust or debris and then apply ARDEX ARDIBOND AP™ or ARDEX ARDIFIX™ to fill the crack chased areas. Read and follow ARDEX ARDIBOND AP or ARDEX ARDIFIX detailed instructions as outlined in the Technical Data Sheet.

E. All crack filling material shall be overfilled. Immediately after application of ARDEX ARDIBOND AP or ARDEX ARDIFIX, silica sand or the concrete grindings may be broadcast to rejection over the crack repair material.

F. The silica or floor grindings will reduce the visibility of the repaired crack and take on a similar color and appearance to surrounding concrete when stained.

G. Cracks smaller than $^{1}/_{8}$" can be left as a part of the finished concrete, unless otherwise specified.

H. Cracks shall be vacuumed to remove all loose debris and contaminates.

I. Cracks smaller than $^{1}/_{8}$" can be filled with ARDEX ARDIFIX.

J. Cracks greater than $^{1}/_{8}$" shall be filled with ARDEX ARDIBOND AP.

K. Cracks shall be overfilled and broadcast to refusal with play sand or concrete shavings, and shall be subsequently ground down to the level of the concrete surface.

L. All crack filling material shall be installed and allowed to cure in strict accordance with the manufacturer's recommendations before proceeding with the next step in the ULTRAFLOR® process.

XVII. SPALL REPAIRS (Indoor/Outdoor)

A. Spall repair to be completed after the first metal bond diamond grind and floor cleaning, or prior to the beginning of the ULTRAFLOR® process installation.

B. For complete installation details for spall repair materials, please refer to the ARDEX Technical Brochure.

C. For polishing instructions, please refer to the individual ULTRAFLOR® ARDEX DIAMATIC specifications for each component.

D. Spalls up to 4" (10 cm) wide and 1" (2.5 cm) deep shall be filled with ARDEX PC-R™.

E. Allow a minimum of 16 to 24 hours drying time prior to beginning the ULTRAFLOR® polishing process. – OR -

F. Spalls up to 4" (10 cm) wide and 1" (2.5 cm) deep can be filled with ARDEX ARDIBOND AP or ARDEX ARDIFIX.

G. Overfill all applications and broadcast sand or concrete grindings to refusal so that they may be ground down to match the level of the concrete surface after dry time.

H. Spalls greater than 4" (10 cm) wide and 1" (2.5 cm) deep shall be filled with ARDEX PC-R.

I. Allow a minimum of 16 to 24 hours drying time prior to beginning the ULTRAFLOR polishing process.

XVIII. LARGE AREA CONCRETE REPAIR (Indoor)

A. Where large area concrete repair is needed, ARDEX PC-T™ shall be used in accordance with the information presented in the ARDEX Technical Brochure.

B. For polishing instructions, please refer to the ARDEX PC-T component specification.

XIX. JOINT FILL REPAIRS (Indoor/Outdoor)

A. All joint fill materials shall be installed in accordance with the written recommendations provided in the ARDEX Technical Brochures.

B. For the best results all joints should be filled after the first pass of metal bonded diamonds, but before any further grinding continues.

C. If the joint filling will occur after the polishing process, apply ARDEX PC 50 or DIAMATIC FLOR- SIL tape, or soap to the edge of the concrete to keep the joint filler from staining the concrete.

D. Prior to filling joints, repair badly spalled joint edges per ACI 302.1R-04.

E. Grind the outside edges of all spalls to eliminate any feathered edges and make sure that the minimum depth of the spall is ½".

F. Mechanically prepare the joint area, and chip out any concrete less than ½" in depth.

G. Apply ARDEX ARDIBOND AP or ARDEX ARDIFIX to the spalled area using a putty knife to reform the edges and surface to the original shape.

H. Once the spalled areas are repaired, the entire joint and spall areas shall be filled with ARDEX ARDIBOND AP.

I. Once cured, saw cut the joint to the original dimensions, and then clean the joint and fill with ARDEX ARDISEAL™ RAPID PLUS.

J. Slightly overfill the joint with enough material to shave flush with the concrete.

K. If the level of the joint filler sinks down, immediately add enough material to over fill the joint.

L. Shave the joint filler flush with the concrete with a shaving tool with a sharp blade.

M. ARDISEAL RAPID PLUS can be shaved in 30 to 40 minutes at 70°F (21°C).

N. Remove all tape and/or soap from the surface around the joint.

O. Micro-Polish the surface with appropriate grit DIAMATIC FLOR-GRIT pad.

XX. GLOSS ATTAINMENT (ASTM E430)

A. Gloss readings are not to be obtained through the use of any microfilming products, sealers, coatings, enhancers, or as the result of resin transfer from resin bond abrasives.

B. Readings shall be taken not less than 10’ (3 m) on center in field areas and within 1’ (0.3 m) of floor area perimeters.

C. In no case shall a reading be below 2% of specified minimum sheen:

1. Level A Sheen – Low Gloss reading of 30 to 40. 400 grit diamond finish.
2. Level B Sheen – Medium Gloss reading of 41 to 55. 800 grit diamond finish.
3. Level C Sheen – High Gloss reading of 56 or higher. 1500 grit or higher.

D. For instructions on achieving gloss levels, refer to the appropriate sub-section below.

XXI. POLISHING

A. Use the grinding and polishing steps outlines below to achieve the desired level of cut and level of gloss.

B. Please note that when grinding and polishing a cross hatch pattern should be used.

XXII. CUT LEVEL 1

A. A light cut that removes the surface paste exposing the fine aggregates near the surface. Also referred to as a cream finish.

B. Note that a Level 1 cut will require high F-numbers to achieve, Min FF 50.

XXIII. CUT LEVEL 2

A. A slightly deeper cut exposes the fine aggregates and begins to expose the coarse aggregates.

B. This is also referred to as a salt and pepper finish.

XXIV. CUT LEVEL 3

A. A deep cut that exposes the coarse aggregates in the surface.

XXV. LEVEL A-LOW GLOSS - GRIND/POLISH #1

A. 60/80 Grit Metal Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

C. If required, apply ARDEX PC-R to fill areas in need of minor repair.

D. Locate areas and remove any loose decries from inside.

E. Prepare all spall areas by cutting the edges of the spall to have a 90 degree edge.

F. Chip, cut, or grind interior walls of spall to provide a clean surface free of contaminants that could act as a bond breaker.

G. Mix and apply ARDEX PC-R per manufacturer recommendations and overfill spalls slightly higher than surrounding surface.

H. Allow to dry two (2) to three (3) hours prior to proceeding with the next step.

XXVI. LEVEL A-LOW GLOSS - GRIND/POLISH #2

A. #1 Grit High Performance Transitional Diamonds, Ceramic Bonded.

B. Broom and vacuum floor to remove dust.

C. Apply ARDEX PC 50 or DIAMATIC FLOR-SIL, per application instructions at a rate of 400 square feet per gallon.

D. Allow ARDEX PC 50 or DIAMATIC FLOR-SIL to dry for one (1) hour before continuing onto the next step.

XXVII. LEVEL A-LOW GLOSS - GRIND/HONING #3

A. 200 grit Resin Bonded Diamond.

XXVIII. LEVEL A-LOW GLOSS - GRIND/POLISHING #4

A. 400 grit Resin Bonded Diamond.

B. Broom and vacuum to remove dust.

XXIX. MICROPOLISH/BURNISH #1

A. FLOR-GRIT® 200 Grit Diamond Impregnated Pad.

B. Apply PC-FINISH™ Low Gloss per application instructions at a rate of 2,500 square feet per gallon.

C. Allow to dry a minimum of 15 to 30 minutes.

XXX. MICROPOLISH/BURNISH #2

A. FLOR-GRIT® 200 Grit Diamond Impregnated Pad.

B. Dry mop the floor clean to remove all debris.

C. Apply ARDEX PC FINISH Low Gloss or DIAMATIC FLOR-FINISH per application instructions at a rate of 3,000 square feet per gallon.

D. Allow to dry a minimum of 15 to 30 minutes.

XXXI. MICROPOLISH/BURNISH #3

A. FLOR-GRIT® 200 Grit Diamond Impregnated Pad.

XXXII. LEVEL B-MEDIUM GLOSS - GRIND/POLISH #1

A. 60/80 Grit Metal Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

C. If required, apply ARDEX PC-R to fill areas in need of minor repair.

D. Locate areas and remove any loose decries from inside.

E. Prepare all spall areas by cutting the edges of the spall to have a 90 degree edge.

F. Chip, cut, or grind interior walls of spall to provide a clean surface free of contaminants that could act as a bond breaker.

G. Mix and apply ARDEX PC-R per manufacturer recommendations and overfill spalls slightly higher than surrounding surface.

H. Allow to dry two (2) to three (3) hours prior to proceeding with the next step.

XXXIII. LEVEL B-MEDIUM GLOSS - GRIND/POLISH #2

A. #1 Transitional Diamonds, Ceramic Bonded.

B. Broom and vacuum the floor to remove all residual dust.

XXXIV. LEVEL B-MEDIUM GLOSS - GRIND/POLISH #3

A. 200 Grit Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

C. Apply ARDEX PC 50 or DIAMATIC FLOR- SIL per application instructions at a rate of 400 square feet per gallon (actual rates may vary due to concrete porosity).

D. Allow ARDEX PC 50 or DIAMATIC FLOR- SIL, to dry before continuing on to the next step.

XXXV. LEVEL B- MEDIUM GLOSS - GRIND/POLISH #4

A. 400 Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

XXXVI. LEVEL B- MEDIUM GLOSS - GRIND/POLISH #5

A. 800 Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

XXXVII. LEVEL B- MEDIUM GLOSS - MICROPOLISH/BURNISH #1

A. FLOR-GRIT 400 Diamond Impregnated Pad.

B. Dry mop the floor clean to remove all debris.

C. Apply ARDEX PC FINISH Low Gloss or DIAMATIC FLOR-FINISH per application instructions at a rate of 2,500 square feet per gallon (actual rates may vary due to concrete porosity).

D. Allow to dry a minimum of 15 minutes.

XXXVIII. MICROPOLISH/BURNISH #2: FLOR-GRIT 400 Diamond Impregnated Pad.

A. Dry mop the floor clean to remove all debris.

B. Apply ARDEX PC FINISH Low Gloss or DIAMATIC FLOR-FINISH per application instructions at a rate of 3,000 square feet per gallon (actual rates may vary due to concrete porosity).

C. Allow to dry a minimum of 15 minutes.

XXXIX. MICROPOLISH/BURNISH #3

A. FLOR-GRIT 800 Diamond Impregnated Pad.

XL. LEVEL C-High Gloss - GRIND/POLISH #1

A. 60/80 Grit Metal Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

C. Concrete Repair Installation, as necessary.

D. Locate areas and remove any loose decries from inside.

E. Prepare all spall areas by cutting the edges of the spall to have a 90 degree edge.

F. Chip, cut, or grind interior walls of spall to provide a clean surface free of contaminants that could act as a bond breaker.

G. Mix and apply ARDEX PC-R per manufacturer recommendations and overfill spalls slightly higher than surrounding surface.

H. Allow to dry two (2) to three (3) hours prior to proceeding with the next step.

XLI. LEVEL C-HIGH GLOSS - GRIND/POLISH #2

A. #1 Transitional Diamonds, Ceramic Bonded.

B. Broom and vacuum the floor to remove all residual dust.

XLII. LEVEL C- HIGH GLOSS - GRIND/POLISH #3

A. 200 Grit Resin Bonded Diamonds

B. Broom and vacuum the floor to remove all residual dust.

C. Apply ARDEX PC 50 or DIAMATIC FLOR- SIL per application instructions at a rate of 400 square feet per gallon (actual rates may vary due to concrete porosity).

D. Allow ARDEX PC 50 or DIAMATIC FLOR- SIL to dry before continuing on to the next step.

XLIII. LEVEL C- HIGH GLOSS - GRIND/POLISH #4

A. 400 Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

XLIV. LEVEL C- HIGH GLOSS - GRIND/POLISH #5

A. 800 Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

XLV. LEVEL C- HIGH GLOSS - GRIND/POLISH #6

A. 1500 Resin Bonded Diamonds.

B. Broom and vacuum the floor to remove all residual dust.

XLVI. MICROPOLISH/BURNISH #1

A. FLOR-GRIT 800 Diamond Impregnated Pad.

B. Dry mop the floor clean to remove all debris.

C. Apply ARDEX PC FINISH High Gloss or DIAMATIC FLOR-FINISH per application instructions at a rate of 2,500 square feet per gallon (actual rates may vary due to concrete porosity).

D. Allow to dry a minimum of 15 minutes.

XLVII. MICROPOLISH/BURNISH #2

A. FLOR-GRIT 1500 Diamond Impregnated Pad.

B. Dry mop the floor clean to remove all debris.

C. Apply ARDEX PC-FINISH High Gloss or DIAMATIC FLOR-FINISH per application instructions at a rate of 3,000 square feet per gallon (actual rates may vary due to concrete porosity).

D. Allow to dry a minimum of 15 minutes.

XLVIII. MICROPOLISH/BURNISH #3

A. FLOR-GRIT 3000 Diamond Impregnated Pad.

XLIX. EDGES

A. Where desired, polished edge work of all areas shall be done with a 5" or 7" DIAMATIC Hand Held or Walk Behind polishing tool.

B. The edge polishing process will match the corresponding steps outlined above for the desired gloss level, and each edge polishing step shall be done immediately after the matching main polishing step.

C. NOTE: All grinding and polishing completed with grinder/polisher equipment connected to a dust collector.

L. ACCEPTANCE

A. Remove all installation materials and any foreign materials resulting from the installation, from the site.

B. Clean adjacent surfaces and materials.

C. Perform post job walk to ensure that the ULTRAFLOR® Polished Concrete System has been completed per the process spec.

D. Take pictures of final product for documentation and submittal, if requested or required.

LI. JOINT PREPARATION

A. All moving joints shall be filled with ARDEX ARDISEAL™ RAPID PLUS.

B. All non-moving joints shall be filled with ARDEX ARDIBOND AP™, ARDEX ARDIFIX™, or ARDEX ARDISEAL™ RAPID PLUS.

C. For joints to be filled after the polish process, contact manufacturer for specific recommendations.

LII. PROTECTION

A. Protect the finish from spills and contamination by petroleum, oil, hydraulic fluid, acid and acidic detergents, paint, and other liquid dripping from trades and equipment working over these substrates.

B. If construction equipment must be used on these substrates, diaper all components that may drip fluids.

C. Protect surface by installing the DIAMATIC PRIMO-COVER Protective Floor Covering, DIAMATIC ECONO-COVER Protective Floor Covering, or similar.

D. Avoid moisture for 72 hours after installation.

E. Do not permit standing water for this period or place any protective plastic sheeting, rubber matting, rugs, or furniture that can prevent proper drying, thereby trapping moisture, which can result in a cloudy effect on the floor.

F. Light pedestrian use only in the 24 hours after installation.

G. Normal traffic recommended seven (7) days after completion of the ULTRAFLOR® Concrete Topping System.

LIII. MAINTENANCE

A. IMPORTANT NOTICE: Maintaining the ULTRAFLOR® Polished Concrete System and adherence to a recommended cleaning schedule will help the floor hold its mechanically polished gloss longer and greatly reduce the absorption of spilled liquids.

B. The treated concrete floor is easily maintained by regular cleaning with the Maintenance/Post Cleaning procedure, accompanied by Micro Polishing.

C. Specific maintenance recommendations shall be provided by the certified ULTRAFLOR® installer.

D. Newly Installed ULTRAFLOR® Polished Concrete System:

1. Restrict water cleaning for 72 hours after installation of ULTRAFLOR. Use only a dry mop to clean.

2. Avoid putting mats or covering treated surface to allow coating to fully cure out.

3. DO NOT USE cleaners that are acidic or that have citrus (de-limonene) or Butyl compounds.

LIV. FIELD QUALITY CONTROL

A. Test Reports: Provide field quality control sheen gloss reading and static coefficient of friction test results conducted as specified and recorded on floor plan diagram confirming compliance with specified performance criteria.

B. Static Coefficient of Friction: A reading of not less than 0.5 for level floor surfaces shall be achieved and documented, as determined by a certified NFSI walkway auditor using the NFSI 101-A quality control test.

C. Gloss readings should be obtained in accordance with ASTM E430, Standard Test Method for Measurement of Gloss of High-Gloss Surfaces by Abridged Goniophotometry.

D. Readings shall be taken not less than 10’ (3 m) on center in field areas and within 1’ (0.3 m) of floor area perimeters.

E. In no case shall a reading be below 2% of the specified minimum sheen.

EPOXY FLOORING – STANDARD, FOOD PREP, AND QUICK

I. GENERAL REQUIREMENTS

A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

II. WORK INCLUDED

A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the urethane cement composition flooring and integral base as scheduled on the drawings and/or specified herein.

III. RELATED WORK - Concrete - Section 03300

A. Concrete should be either water cured or cured using sodium silicate curing compounds only.

B. Other types of curing compounds are generally not acceptable.

C. Concrete should be cured for a minimum of 28 days.

D. On grade floors should have functioning vapor retarder beneath slab.

IV. RELATED WORK - Floor drains - Division 15

A. Floor drains, clean-outs, etc. should be of the "floor-flange" type as manufactured for use with composition floors by most major drain manufacturers.

V. SUBMITTALS

A. Should be in accordance with Conditions of Contract and Division 1 Specification Sections.

B. Product Data: Submit manufacturer's technical data, application instructions, and general recommendations for the urethane cement composition flooring specified herein.

C. LEED Submittals:

1. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, submit documentation indicating percentages by weight of postconsumer and pre-consumer recycled content.

2. Include statement indicating costs for each product having recycled content.

3. Include LEED Product Information Form for LEED Credits MR 4.1 and 4.2. 2.

4. Product Data for Credit EQ 4.2: For field applied, interior, paints coatings, and primers, include printed statement of VOC content indicating compliance with Credit requirements.

5. Include LEED Product Information Form for LEED Credit EQ 4.2.

6. Provide additional documentation for products as required to achieve each Credit(s).

D. Samples for initial selection purposes in form of sample of red, gray, or natural pigmented Tek-Crete.

E. Dex-O-Tex Colorflake L has a manufacturer's color chart available with a full range of colors including white and off white.

F. Submit 2 ½" x 4" Tek-Crete samples in color (red or gray) the selection shall be designated by the Architect.

G. Samples for Verification: For each resinous flooring system or color specified, Provide 2 each, 6" (150mm) square samples in the selected color and texture, applied to a ridged backing by the installing contractor for this project.

H. Material certificates signed by manufacturer certifying that the urethane cement composition flooring supplied for the project complies with requirements specified herein.

I. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.

J. Contractor Certification: Submit a letter from the primary materials manufacturer certifying that the installing contractor has been properly trained in the application of the materials being installed, is acceptable to the materials manufacturer, with a record of successful in-service performance.

K. Engage an installer who employs only persons trained and approved by the resinous flooring manufacturer for applying resinous flooring systems specified.

L. Engage an installer who is certified in writing by the resinous flooring manufacturer as a factory trained applicator qualified to apply the specified resinous flooring system.

VI. QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer or applicator who has specialized in installing resinous flooring types similar to that required for this Project and who is acceptable to manufacturer of primary materials.

B. Single-Source Responsibility: Obtain urethane cement composition flooring materials, including primers, resins, hardening agents, and finish or sealing coats, from a single manufacturer.

C. Provide secondary materials, including patching and fill materials, joint sealant, accessory items, and repair materials, of a type and from a source recommended by the manufacturer of the primary materials.

D. Qualified Materials

1. Request for material approvals for any products other than the specified products must be submitted to the architect two (2) weeks prior to the bid, including complete application specification, physical characteristics, and chemical resistance data.

2. Any request after this date will not be accepted.

E. Failure of performance requires immediate removal and replacement of unapproved substituted material with those originally specified at no cost to the owner, architect, construction manager, or general contractor.

F. Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set the standard of quality for materials and installation.

G. Apply all components of the specified resinous flooring system at the specified thickness and finished in the texture and color as selected.

H. Apply a minimum 100 square feet area to simulate the actual installation characteristics.

I. Include areas that demonstrate the finished cove base, joint detailing, terminations, or any other special conditions.

J. Simulate finished lighting conditions for Architects review of mockups.

K. Approved mockups may become part of the completed work if undisturbed at the time of substantial completion.

VII. DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components.

B. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects.

C. Lighting: Permanent lighting will be in place and working before installing polymeric floor coating.

VIII. PROJECT CONDITIONS

A. Environmental Conditions: Comply with urethane cement composition flooring manufacturer's directions for maintenance of ambient and substrate temperature, moisture, humidity, ventilation, and other conditions required to execute and protect Work.

B. Lighting: Permanent lighting will be in place and working before installing resinous flooring.

C. Moisture Vapor Transmission: Perform Calcium Chloride test in conformance to ASTM F 1869-09 or in-situ relative humidity test conforming to ASTM F 2170 to determine moisture vapor emission levels prior to application of any component of the flooring system.

D. Do not install flooring over substrate with MVT emission levels in excess of 14 lbs. per 24 hour period over a 1000 square foot area or with a relivative humidity in excess of 88%.

E. Notify the architect immediately if MVT or rH levels exceed these levels.

IX. MATERIALS

A. Troweled urethane cement composition flooring shall be Dex-O-Tex Tek-Crete SL-CF Urethane Cement Composition Flooring.

B. Monolithic applications for quick installation turn around shall be Tek-Crete SL Urethane Mortar with Optional Integral Cove Base.

C. Decorative flake polymeric floor coating shall be Dex-O-Tex Colorflake L.

D. Known manufacturer: Crossfield Products Corp. in Rancho Dominguez, California and Roselle Park, New Jersey.

X. DEX-O-TEX TEK-CRETE SL-CF PROPERTIES

A. Colors: As indicated, or if not otherwise indicated, as selected by Architect from manufacturer's standard colors.

B. Physical Properties: Provide flooring system that meet or exceed the listed minimum physical property requirements when tested according to the referenced standard test method in parentheses.

C. Compressive Strength (ASTM C579): 8,100 psi

D. Thermal Distortion (250OF Emersion): Passes

E. Tensile Strength (ASTM C 307): 1,000 psi

F. Flexural Strength (ASTM C 580): 2,000 psi

G. Thermal Co-Efficient of Thermal Expansion (ASTM C 531): 1.4 x 105

H. Density (ASTM C905): 130 lbs/ft3

I. Water Absorption (MIL PRF-3134): 0.64%

J. Surface Hardness (ASTM D2240): 85 - 90

K. Durometer "D" Abrasion Resistance (ASTM D1044): 0.0 gr.

L. Adhesion (ASTM D4541): >400 psi (100% failure in concrete)

M. Flammability-Critical Radiant Flux (ASTM E648): Greater than 1.07 watts/cm^2

N. Resistance to Fungal Growth (ASTM G21): Passes Rating 1

XI. TEK-CRETE SL URETHAN MORTAR PHYSICAL PROPERTIES

A. Compressive Strength (ASTM C579): 8,100 psi

B. Tensile Strength (ASTM C307): 1,000 psi

C. Flexural Strength (ASTM C580): 2,000 psi

D. Hardness (ASTM D2240): Shore D 85 - 90

E. Thermal Coefficient of Linear Expansion (ASTM C531 (in/in/0F): 1.5 x 105

F. Density (ASTM C905): 130 lbs/ft.3

G. Water Absorption (MIL-D-3134 Para. 4.6.5): 0.64%

H. Flammability (ASTM E648): >1.07 watts/cm^2

I. Adhesion (ASTM D4541): >400 psi (100% failure in concrete substrate)

J. Temperature Distortion Crossfield Lab: Passes (dry, wet, and oil at 350°F or 121°C)

K. Microbial Resistance (ASTM G21): Passes Rating 1

XII. DEX-O-TEX COLORFLAKE L DECORATIVE FLAKE POLYMERIC FLOOR COATING PHYSICAL PROPERTIES

A. Thickness: 15 - 21 mils

B. Pencil Hardness (ASTM D3363): 3H

C. Impact Resistance (ASTM D2794): Direct 50 in. lbs. / Reverse 10 in. lbs.

D. Thermal Shock (ASTM D1211): Complies

E. Flexibility (ASTM D1737): 180° Bend ($^1/_2$" Mandrel) Passes

XIII. INSPECTION

A. Examine the areas and conditions where the flooring is to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work.

B. Do not proceed with the work until unsatisfactory conditions have been corrected by the Contractor in a manner acceptable to the Architect.

C. Moisture Test: Perform moisture test in conformance with ASTM F 1869 and ASTM F 2170 3.02

XIV. PREPARATION: DEX-O-TEX TEK-CRETE SL-CF

A. 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 flooring application.

B. Concrete Surfaces: Shot-blast, or power scarify as required to obtain optimum bond of flooring to concrete. Remove sufficient material to provide a sound surface free of laitance, glaze, efflorescence, and any bond-inhibiting curing compounds or form release agents. Remove grease, oil, and other penetrating contaminates. Prepare substrate in accordance with SSPC SP 13. Repair damaged and deteriorated concrete to acceptable condition. Leave surface free of dust, dirt, laitance, and efflorescence.

C. Materials: Mix resin hardener and aggregate as required, and prepare materials according to flooring system manufacturer's instructions.

XV. PREPARATION: TEK-CRETE SL URETHANE MORTAR

A. Prepare substrate surface by careful and thorough removal of all laitance, greases, and other foreign matter that may interfere with bond.

B. Prepare concrete surfaces in accordance with SSPC SP 13.

C. Optional Primer: Use an optional primer over porous substrate surfaces. Consult manufacturer when required.

D. Screed Tek-Crete Self Leveling to the specified thickness $^3/_{16}$" (4.7mm) - $^1/_4$" (6.3mm).

XVI. PREPARATION: DEX-O-TEX COLORFLAKE L

A. Perform preparation and cleaning procedures according to the flooring manufacturer's instructions for the particular substrate conditions involved.

B. Provide clean, dry, and neutral substrate for flooring application.

C. Shot-blast, acid etch, or power scarify as required to obtain optimum bond of flooring to concrete.

D. Remove sufficient material to provide a sound surface free of laitance, glaze, efflorescence, and any bond inhibiting curing compounds or form release agents.

E. Remove grease, oil, and other penetrating contaminates.

F. Repair damaged and deteriorated concrete to acceptable condition.

G. Leave surface free of dust, dirt, laitance, and efflorescence.

XVII. APPLICATION

A. General: Apply each component of flooring system according to manufacturer's directions to produce a uniform monolithic flooring surface of thickness indicated.

B. Urethane Body Coat: Over prepared surface, Screed mortar mix at nominal $^{3}/_{16}$" – ¼" thickness as specified. Allow material flow out and begin to settle. Back roll with a spike roller or looped roller as appropriate to distribute material to a smooth even finish.

C. Color Flake Chip Broadcast: Broadcast selected colored flake chip aggregate blend into the wet Body Coat. Apply to an even distribution and texture, allow to cure.

D. Remove Excess Chip Aggregate: Remove all loose or unsound colored flake chip aggregate from the cured surface. Vacuum up all dust and fine particles from the surface, remove any ridge lines and detail all imperfection in the textured surface.

E. Apply the selected clear seal coats as recommended to produce a surface matching the submittal sample and project mock-up samples.

F. Cove Base: Apply cove base mix to wall surfaces at locations shown to form cove base height of 4" unless otherwise indicated. Follow manufacturer's printed instructions and details including taping, mixing, troweling, and sanding, of cove base.

G. DEX-O-TEX Colorflake L:

1. Apply each component of decorative flake polymeric floor coating system according to manufacturer's directions to produce a uniform monolithic flooring surface.

2. Apply epoxy bond coat over prepared substrate at manufacturer's recommended spreading rate.

3. Over bond coat apply nominal 8-12 DFT thickness Colorflake L Color Coating by roller in two (2) coats at manufacturer's recommended spreading rate.

4. Broadcast PVC color ship into the wet resin to the desired density and color combination as selected and approved.

5. Apply two (2) coats of clear polymeric enamel over the cured color and PVC broadcast.

6. Lightly sand between coats.

XVIII. CURING, PROTECTION AND CLEANING: DEX-O-TEX TEK-CRETE SL-CF

A. Cure urethane cement composition flooring materials according to manufacturer's directions, taking care to prevent contamination during application stages and before completing curing process.

B. Close application area for a minimum of 24 hours.

XIX. CURING, PROTECTION, AND CLEANING: TEK-CRETE SL URETHANE MORTAR

A. Tek-Crete Self Leveling is rapidly cured allowing for quick return to service, including use of forklifts within 24 hours of work completion.

B. Tek-Crete Self Leveling can be applied at temperatures ranging between 45°F (7°C) and 85°F (29°C).

C. In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, but the more difficult to clean.

D. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

E. Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture, and performance of the system.

F. As a precautionary step, manufacturer recommends that the end-users test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning materials or techniques will be required.

XX. CURING, PROTECTION, AND CLEANING: DEX-O-TEX COLORFLAKE L

A. Cure polymeric floor coating materials according to manufacturer's directions, taking care to prevent contamination during application stages and before completing curing process.

B. Close application area for a minimum of 24 hours.

Chapter

4

SITE LOCATIONS & ESTIMATED PROPOSED SCOPE AND MAPS

CHAPTER FIVE COMPONENTS

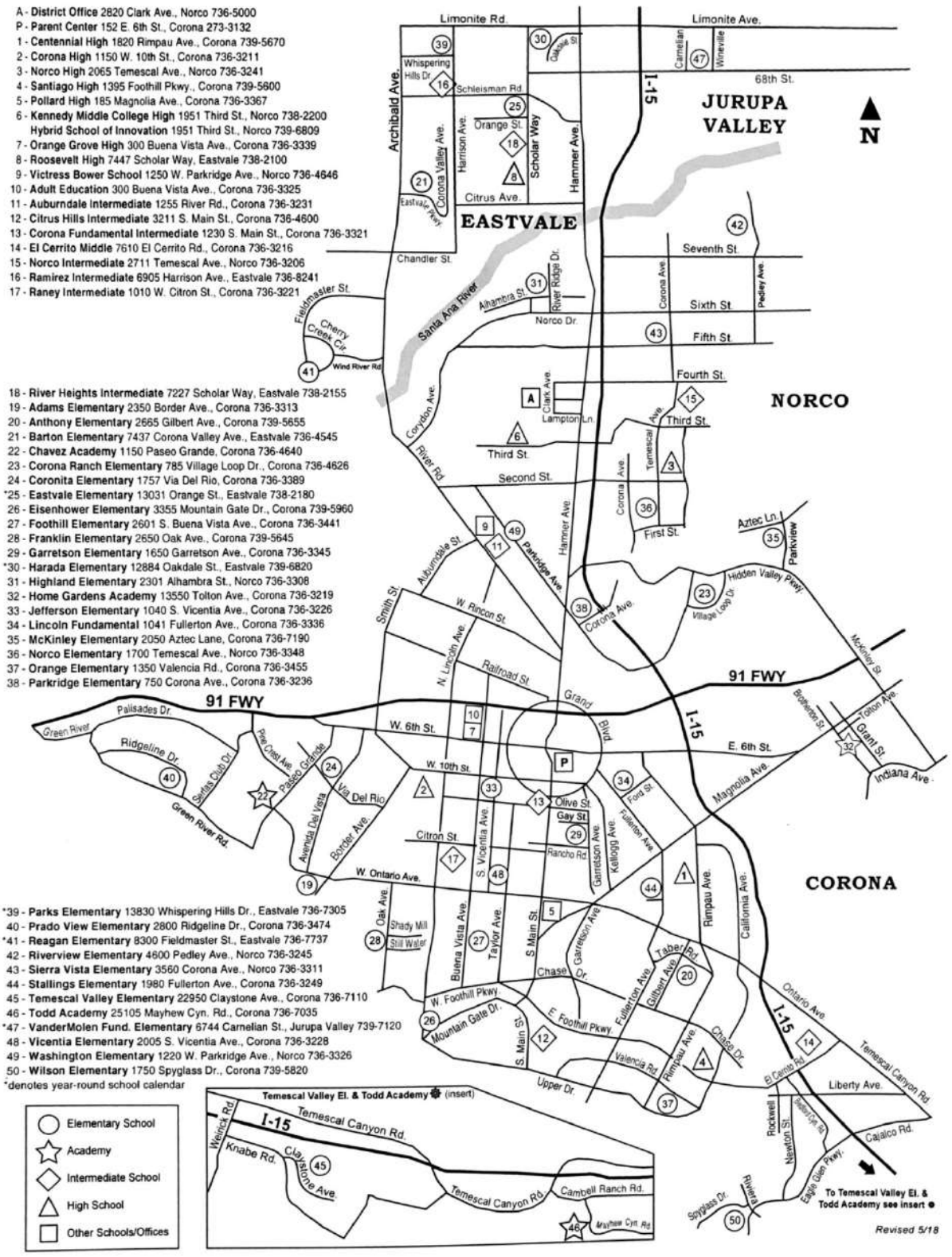
- Site Locations and Estimated Proposed Scope
- Maps
- District Proximity and Locations

SITE LOCATIONS AND ESTIMATED PROPOSED SCOPE (# OF ROOMS)			
SCHOOL NAME	YEAR 1 (2018/19)	YEAR 2 (2019/20)	YEAR 3 (2020/21)
Adams Elementary	5	5	5
Anthony Elementary	3	3	10
Barton Elementary	2	0	0
Cesar Chavez Academy	3	0	0
Corona Ranch Elementary	0	6	0
Coronita Elementary	3	5	2
Eastvale Elementary	0	0	0
Eisenhower Elementary	5	5	30
Foothill Elementary	3	3	3
Franklin Elementary	0	0	0
Garretson Elementary	0	0	0
Harada Elementary	0	0	6
Highland Elementary	5	20	10
Home Gardens Academy	0	0	0
Jefferson Elementary	0	0	0
Lincoln Elementary	0	0	2
McKinley Elementary	8	8	3
Norco Elementary	0	0	10
Orange Elementary	0	0	0
Parkridge Elementary	3	2	3
Rosa Parks Elementary	0	0	0
Prado View Elementary	0	0	6
Reagan Elementary	0	0	0
Riverview Elementary	0	0	0
Sierra Vista Elementary	5	2	5
Stallings Elementary	0	0	0
Temescal Valley	0	0	0
Todd Elementary	0	0	0
Vandermolen Elementary	0	0	0
Vicentia Elementary	0	3	0
Washington Elementary	8	2	3
Wilson Elementary	6	3	3
Auburndale Intermediate	0	0	0
Citrus Hills Intermediate	15	0	0
Corona Fundamental Intermediate	0	0	0

SITE LOCATIONS AND ESTIMATED PROPOSED SCOPE
(# OF ROOMS)

SCHOOL NAME	YEAR 1 (2018/19)	YEAR 2 (2019/20)	YEAR 3 (2020/21)
El Cerrito Intermediate	3	5	5
Norco Intermediate	5	2	2
Ramirez Intermediate	0	0	0
Raney Intermediate	10	5	3
River Heights Intermediate	0	0	0
Centennial High	0	20	0
Corona High	10	10	10
John F Kennedy High	6	0	0
Norco High	5	5	30
Orange Grove High	3	3	0
Pollard High	0	15	0
Roosevelt High	7	7	7
Santiago High	4	4	15
Victress Bower	3	2	0

MAPS


A - District Office 2820 Clark Ave., Norco 736-5000
P - Parent Center 152 E. 6th St., Corona 273-3132
1 - Centennial High 1820 Rimpau Ave., Corona 739-5670
2 - Corona High 1150 W. 10th St., Corona 736-3211
3 - Norco High 2065 Temescal Ave., Norco 736-3241
4 - Santiago High 1395 Foothill Pkwy., Corona 739-5600
5 - Pollard High 185 Magnolia Ave., Corona 736-3367
6 - Kennedy Middle College High 1951 Third St., Norco 738-2200
Hybrid School of Innovation 1951 Third St., Norco 739-6809
7 - Orange Grove High 300 Buena Vista Ave., Corona 736-3339
8 - Roosevelt High 7447 Scholar Way, Eastvale 738-2100
9 - Victress Bower School 1250 W. Parkridge Ave., Norco 736-4646
10 - Adult Education 300 Buena Vista Ave., Corona 736-3325
11 - Auburndale Intermediate 1255 River Rd., Corona 736-3231
12 - Citrus Hills Intermediate 3211 S. Main St., Corona 736-4600
13 - Corona Fundamental Intermediate 1230 S. Main St., Corona 736-3321
14 - El Cerrito Middle 7610 El Cerrito Rd., Corona 736-3216
15 - Norco Intermediate 2711 Temescal Ave., Norco 736-3206
16 - Ramirez Intermediate 6905 Harrison Ave., Eastvale 736-8241
17 - Raney Intermediate 1010 W. Citron St., Corona 736-3221
18 - River Heights Intermediate 7227 Scholar Way, Eastvale 738-2155
19 - Adams Elementary 2350 Border Ave., Corona 736-3313
20 - Anthony Elementary 2665 Gilbert Ave., Corona 739-5655
21 - Barton Elementary 7437 Corona Valley Ave., Eastvale 736-4545
22 - Chavez Academy 1150 Paseo Grande, Corona 736-4640
23 - Corona Ranch Elementary 785 Village Loop Dr., Corona 736-4626
24 - Coronita Elementary 1757 Via Del Rio, Corona 736-3389
*25 - Eastvale Elementary 13031 Orange St., Eastvale 738-2180
26 - Eisenhower Elementary 3355 Mountain Gate Dr., Corona 739-5960
27 - Foothill Elementary 2601 S. Buena Vista Ave., Corona 736-3441
28 - Franklin Elementary 2650 Oak Ave., Corona 739-5645
29 - Garretson Elementary 1650 Garretson Ave., Corona 736-3345
*30 - Harada Elementary 12884 Oakdale St., Eastvale 739-6820
31 - Highland Elementary 2301 Alhambra St., Norco 736-3308
32 - Home Gardens Academy 13550 Tolton Ave., Corona 736-3219
33 - Jefferson Elementary 1040 S. Vicentia Ave., Corona 736-3226
34 - Lincoln Fundamental 1041 Fullerton Ave., Corona 736-3336
35 - McKinley Elementary 2050 Aztec Lane, Corona 736-7190
36 - Norco Elementary 1700 Temescal Ave., Norco 736-3348
37 - Orange Elementary 1350 Valencia Rd., Corona 736-3455
38 - Parkridge Elementary 750 Corona Ave., Corona 736-3236
*39 - Parks Elementary 13830 Whispering Hills Dr., Eastvale 736-7305
40 - Prado View Elementary 2800 Ridgeline Dr., Corona 736-3474
*41 - Reagan Elementary 8300 Fieldmaster St., Eastvale 736-7737
42 - Riverview Elementary 4600 Pedley Ave., Norco 736-3245
43 - Sierra Vista Elementary 3560 Corona Ave., Norco 736-3311
44 - Stallings Elementary 1980 Fullerton Ave., Corona 736-3249
45 - Temescal Valley Elementary 22950 Claystone Ave., Corona 736-7110
46 - Todd Academy 25105 Mayhew Cyn. Rd., Corona 736-7035
*47 - VanderMolen Fund. Elementary 6744 Carnelian St., Jurupa Valley 739-7120
48 - Vicentia Elementary 2005 S. Vicentia Ave., Corona 736-3228
49 - Washington Elementary 1220 W. Parkridge Ave., Norco 736-3326
50 - Wilson Elementary 1750 Spyglass Dr., Corona 739-5820
*denotes year-round school calendar
Elementary School
Academy
Intermediate School
High School
Other Schools/Offices
Limonite Rd.
Limonite Ave.
68th St.
JURUPA VALLEY
N
EASTVALE
NORCO
CORONA
Archibald Ave.
Whispering Hills Dr.
Schleisman Rd.
Harrison Ave.
Corona Valley Ave.
Eastvale Pkwy.
Orange St.
Citrus Ave.
Scholar Way
Hammer Ave.
I-15
Oakdale St.
Camellian
Wineville
Chandler St.
Fieldmaster St.
Cherry Creek Cir.
Wind River Rd.
Santa Ana River
Alhambra St.
River Ridge Dr.
Norco Dr.
Corona Ave.
Pedley Ave.
Seventh St.
Sixth St.
Fifth St.
Fourth St.
Third St.
Second St.
First St.
Clark Ave.
Lampton Ln.
Temescal Ave.
Corydon Ave.
River Rd
Aztec Ln.
Parkview
Hidden Valley Pkwy.
Village Loop Dr.
Auburndale St.
Parkridge Ave.
Smith St.
W. Rincon St.
N. Lincoln Ave.
Railroad St
91 FWY
McKinley St.
Grand Blvd.
Brotherton St.
Tolton Ave.
Grant St.
Indiana Ave.
Palisades Dr.
Green River
Ridgeline Dr.
Sierra Club Dr.
Green River Rd.
Pine Crest Ave.
Paseo Grande
Via Del Rio
Avenida Del Vista
Border Ave.
W. 6th St.
E. 6th St.
W. 10th St.
Olive St.
Gay St.
Citron St.
Rancho Rd.
S. Vicentia Ave.
Garretson Ave.
Kellogg Ave.
Fullerton Ave.
Ford St.
Magnolia Ave.
W. Ontario Ave.
Oak Ave.
Shady Mill
Still Water
Buena Vista Ave.
Taylor Ave.
S. Main St.
Rimpau Ave.
California Ave.
Taber Rd.
Chase Dr.
Gilbert Ave.
W. Foothill Pkwy.
E. Foothill Pkwy.
Mountain Gate Dr.
Valencia Rd.
Upper Dr.
Ontario Ave
El Cerrito Rd.
Temescal Canyon Rd.
Liberty Ave.
Rockwell
Newton St.
Stallion Cyn. Rd.
Calaico Rd.
Eagle Glen Pkwy.
Riviera
Spyglass Dr.
To Temescal Valley El. & Todd Academy see insert
Revised 5/18
Temescal Valley El. & Todd Academy (insert)
Weirick Rd.
Knabe Rd.
Claystone Ave.
Temescal Canyon Rd.
Campbell Ranch Rd.
Mayhew Cyn. Rd.

DISTRICT PROXIMITY AND LOCATIONS

Elementary Schools

Adams
2350 Border Avenue
Corona CA 92882

Anthony
2665 Gilbert Avenue
Corona CA 92881

Barton
7437 Corona Valley
Eastvale CA 92880

Chávez
1150 Paseo Grande
Corona CA 92882

Corona Ranch
785 Village Loop Drive
Corona CA 92879

Coronita
1757 via Del Rio
Corona CA 92882

Eastvale
13031 Orange Street
Eastvale CA 92880

Eisenhower
3355 Mountain Gate
Corona CA 92882

Foothill
2601 South Buena Vista
Corona CA 92882

Franklin
2650 Oak Avenue
Corona CA 92880

Garretson
1650 Garretson Avenue
Corona CA 92879

Harada
12884 Oakdale Street
Eastvale CA 92880

Highland
2301 Alhambra Street
Norco CA 92860

Home Gardens
13550 Tolton Avenue
Corona CA 92879

Jefferson
1040 South Vicentia
Corona CA 92882

Lincoln Alternative
1041 Fullerton Avenue
Corona CA 92879

McKinley
2050 Aztec Lane
Corona CA 92879

Norco
1700 Temescal Avenue
Norco CA 92860

Orange
1350 Valencia Road
Corona CA 92881

Parkridge
750 Corona Avenue
Corona CA 92879

Parks
13830 Whispering Hills
Eastvale CA 92880

Prado View
2800 Ridgeline Drive
Corona CA 92882

Regan
8300 Fieldmaster St
Eastvale, CA 92880

Riverview
4600 Pedley Avenue
Norco CA 92860

Rondo
7620 Hellman Ave,
Corona, CA 92880

Sierra Vista
3560 Corona Avenue
Norco CA 92860

Stallings
1980 Fullerton Avenue
Corona CA 92881

Temescal Valley
2290 Claystone Avenue
Corona CA 92883

Todd
25105 Mayhew Canyon
Corona CA 92883

VanderMolen
6744 Carnelian
Jurupa Valley CA 91752

Vicentia
2005 South Vicenita
Corona CA 92882

Victress Bower
1250 West Parkridge
Norco CA 92860

Washington
1220 West Parkridge
Corona CA 92860

Wilson
1750 Spyglass Drive
Corona CA 92883

Intermediate Schools

Auburndale
1255 River Road
Corona CA 92880

Citrus Hills
3211 South Main
Corona CA 92882

Corona
1230 South Main Street
Corona CA 92882

El Cerrito
7610 El Cerrito Road
Corona CA 92881

Norco
2711 Temescal Avenue
Norco CA 92860

Ramirez
6905 Harrison Avenue
Eastvale CA 92880

Raney
1010 West Citron
Corona CA 92882

River Heights
7227 Scholar Way
Eastvale CA 92880

High Schools

Centennial
1820 Rimpau Avenue
Corona CA 92881

Corona
1150 West Tenth
Corona CA 92882

Kennedy
1951 Third Street
Norco CA 92860

Norco
2065 Temescal Avenue
Norco CA 92860

Orange Grove
300 Buena Vista
Corona CA 92882

Pollard
185 Magnolia Avenue
Corona CA 92882

Roosevelt
7447 Scholar Way
Eastvale CA 92880

eSTEM - Roosevelt
7447 Scholar Way
Eastvale CA 92880

Santiago
1395 Foothill Parkway
Corona CA 92881

District Office

2820 Clark Avenue
Norco CA 92860

Maintenance and Operations Office, Child Nutrition, Warehouse and Printshop

300 Buena Vista
Corona CA 92882

BID FORMS

Appendix

B

BID FORMS

I. Project Description: Installation of carpet and/or tile at the locations listed under Site Locations & Estimated Proposed Scope and Maps (Chapter 4, Page 52). Due to possible budgetary restraints, the Corona-Norco USD may add or remove a number of rooms at each location during each of the contract terms.

II. Notice to Contractor: All materials to be installed are to be received as a completed project. All sundry items, adhesives, seam welds, seam sealers, and any associated item necessary for a completed project is to be included in the prices below.

III. School district will supply carpet material and permanent Geo Tile matting material only. All other items needed for a complete job will be the responsibility of the contractor.

IV. Carpet and Geo Tile matting materials will be delivered to the contractor's designated receipt location within six (6) to eight (8) weeks prior to the scheduled installation date.

V. Contractor will be responsible for delivering, storing, and warehousing materials for the term of the contract. All cost associated with delivery and pick up of carpet and Geo Tile matting (other than the original delivery) will be the sole responsibility of the contractor.

VI. Term: The District intends to award a three (3) year contract with two (2) optional one-year terms for a maximum of five (5) years to the Contractor offering the lowest responsible bid, meeting District specifications. Contract terms include the sites listed under Site Locations & Estimated Proposed Scope and Maps (Chapter 4, Page 52).

Year 1: January 23, 2019 through December 31, 2019.

Year 2: January 1, 2020 through December 31, 2020.

Year 3: January 1, 2021 through December 31, 2021.

Extensions:

Optional 1-year term: January 1, 2022 through December 31, 2022

Optional 1-year term: January 1, 2023 through December 31, 2023

ESTIMATE OF QUANTITIES REQUIRED FOR BASIS OF AWARD

BID FORM

I. ***This Bid form must be included with your bid submittal. All listed materials shown herein may be substituted by an equivalent product which must be pre-approved by the District.***

Description	Unit	Quantity	Unit Cost	Total
Soft Surface Flooring Material (Powerbond)	square yards	4,280	Supplied by district.	0
Soft Surface Flooring Installation (Powerbond or equal)	square yards	5,000		
Removal of existing carpet (ActionBac)	square yards	4,280		
Standard carpet floor preparation	manhours	100		
4" Burke wall base (commercial colors)	linear feet	5,000		
Snap down reducer strip (furnish and install)	linear feet	3,000		
Furniture moving – standard classroom	4 manhours per room	40 rooms	per 4 hours	
Material – Mondo Zeus 3 mm 24"x24" or equal	square feet	3,000		
Installation – Mondo Zeus 3 mm 24"x24" or equal	square feet	3,000		
Geo Tile Mat System Installation	square yards	100		
Sheet Vinyl (material) Armstrong Connection Corlon or equal	square yards	100		
Sheet Vinyl Installation	square yards	100		
Sheet Vinyl Demolition	square yards	100		
Self Cove (Includes cove stick and cap metal)	linear feet	200		
VCT Material – 12x12 Standard Excelon	square feet	1,000		
VCT Installation – Standard Excelon	square feet	1,000		
Polished Concrete (Level B) Medium Gloss (Gloss Attainment):	square feet	1,000		
Standard Epoxy Coating Material	square feet	1,000		
Standard Epoxy Coating Installation	square feet	1,000		

Kitchen / Food Prep Epoxy Coating Material		square feet	1,000		
Kitchen / Food Prep Epoxy Coating Installation		square feet	1,000		
10 -12 lbs MVER (Koester or equal): *(Concrete Vapor Emission and Moisture Proofing)*		square feet	1,000		

Sports Floors

Commotion or equal					
Material	Sheet flooring	square yard	200	$	$
	Tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
Installation	Sheet flooring	square yard	200	$	$
	Tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
Training or equal					
Material		square yard	200	$	$
Installation		square yard	200	$	$
Triumph or equal					
Material	Square tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
	Underlock tile	carton	25	$	$
Installation	Square tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
	Underlock tile	carton	25	$	$
Inertia or equal					
Material	Square tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
	Underlock tile	carton	25	$	$
	Slidelock tile	carton	25	$	$
Installation	Square tile	carton	25	$	$
	Interlocking tile	carton	25	$	$
	Underlock tile	carton	25	$	$
	Slidelock tile	carton	25	$	$
Heat weld seam and rod (material & labor)		linear feet	100	$	$
6” Self cove and cap (rubber)		linear feet	100	$	$

Grand Total: $

Grand Total Written Out:

NOTE:
This form must be completed in its entirety as it will be used for the Basis of Award.

EPOXY FLOORING MATERIAL AND INSTALLATION QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. Price shall include all delivery and storage costs.

III. Price shall include all things necessary for a professional job, including concrete scraping, sanding, bead blasting, etc.

IV. Substrate is to be on-grade concrete and lightweight concrete.

V. There is a nine (9) square yard minimum purchase requirement.

VI. The standard work week shall be from 6:00 am – 9:00 pm, Monday through Saturday.

Product Description	**Unit Price of Material and Installation**	**Unit Measurement**
Standard Epoxy Coating Material	$	per square foot
Standard Epoxy Coating Installation	$	per square foot
Kitchen / Food Prep Epoxy Coating Material	$	per square foot
Kitchen / Food Prep Epoxy Coating Installation	$	per square foot
Quick Epoxy Coating Material	$	per square foot
Quick Epoxy Coating Installation	$	per square foot

PERMANENT MATTING MATERIAL AND INSTALLATION QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. Price must include delivery and storage cost.

III. Geo Tile has a minimum purchase order requirement of three (3) yards.

IV. Installation shall include receiving materials, delivery of materials, installation of materials, disposal of scraps, primers, sealers, sundry items, and any labor related items that are associated with installation.

V. Installation shall not include the following: demo of existing floor, disposal of existing materials, floor preparation, wall base, and furniture moving.

VI. Abrasive Action has a five (5) yard minimum purchase order requirement.

VII. Standard work week shall be 6:00 am - 9:00 pm, Monday through Saturday.

Product Description	Price per Unit	Unit Measurement
Material - Geo Tile Matting 18"x18" dry back modular tile	$	per yard
Installation - Geo Tile Matting 18"x18" dry back modular tile	$	per yard
Material - Abrasive Action 6' dry back roll goods	$	per yard
Installation - Abrasive Action 6' dry back roll goods	$	per yard
Material – Triad Mat (water hog) with trim 3'x4'	$	per yard
Material – Triad Mat (water hog) with trim 4'x6'	$	per yard

RESILIENT FLOORING MATERIAL & INSTALLATION QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. Price shall include all delivery and storage costs.

III. There is a 20 square yard minimum purchase requirement.

IV. Installation shall include receiving materials, delivery of materials, installation of materials, disposal of scraps, primers, sealers, sundry items, and any labor related items that are associated with installation.

V. Installation shall not include the following: demo of existing floor, disposal of existing materials, floor preparation, wall base, furniture moving, and matting material

VI. The standard work week shall be from 6:00 am - 9:00 pm, Monday through Saturday.

Product Description or equal	**Price of Material per Unit**	**Price of Labor per Unit**	**Unit Measurement**
Armstrong Connection Corlon – 6' or equal	$	$	per yard
Armstrong Medintech – 6' or equal	$	$	per yard
Armstrong Medintech Tandum – 6' or equal	$	$	per yard
Armstrong Marmorette – 6' or equal	$	$	per yard
Armstrong Linorette – 6' or equal	$	$	per yard
Armstrong Linodur – 6' or equal	$	$	per yard
Armstrong Standard Excelon – 12"x12" or equal	$	$	per foot with a 6 carton minimum purchase
Armstrong Standard Excelon – 12"x12" or equal	$	$	per foot with a 27 carton minimum purchase
Armstrong Standard Excelon – 12"x12" or equal	$	$	per foot with a 100 carton minimum purchase
Armstrong Standard Excelon – 12"x12" or equal	$	$	per foot with a 318 carton minimum purchase
Heat weld seam and rod	$	$	per linear foot
6” self cove with cap metal	$	$	per linear foot

WALL BASE AND REDUCER MATERIAL AND INSTALLATION QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. Price shall include all delivery and storage costs.

III. There is a 20 square yard minimum purchase requirement.

IV. The standard work week shall be from 6:00 am - 9:00 pm, Monday through Saturday.

Product Description or equal	**Price of Material and Installation per Unit**	**Unit Measurement**
Burke Commercial Colors – 2 ½"	$	per linear foot
Burke Commercial Colors – 4"	$	per linear foot
Burke Commercial Colors – 6"	$	per linear foot
Burke Decorator Colors – 2 ½"	$	per linear foot
Burke Decorator Colors – 4"	$	per linear foot
Burke Decorator Colors – 6"	$	per linear foot
Burke Snap Down Reducer	$	per linear foot
Nail and Clamp Down Reducer	$	per linear foot
2 Plate Reducer	$	per linear foot

INSTALLATION OF POLISHED CONCRETE

I. GENERAL

A. ***This must be included with your bid submittal.***

B. This work is for installation of district provided carpet material, if applicable.

C. Materials price must include shipment and delivery costs.

D. Material and installation price categories may be listed separately.

II. MINIMUMS

A. Polished concrete has a minimum of 65 yards.

III. PRICING

A. NOTE - PRICING MUST BE THE SAME AS QUOTED ON THE BASIS OF AWARD.

IV. MATERIAL

A. Include the following:

1. Shipment
2. Delivery
3. Material packaging
4. 24 hour delivery notice

V. INSTALLATION

A. Include the following:

1. Installation of materials
2. Removal of surface paste exposing fine aggregates near the surface of the concrete based on the level desired
3. Adhesives
4. Specialty tools
5. Equipment
6. Primers
7. Sealers
8. Sundry items
9. Material handling and inspection
10. Project management
11. Manufacturer's installation guidelines
12. Any labor related items that are associated with installation

B. Installation shall not include the following:

1. Wall base and trim pieces
2. Demo of existing flooring and wall base
3. Disposal of existing materials
4. Furniture moving
5. Moisture mitigation

VI. STANDARD WORK WEEK

A. Shall be from 6:00 am – 9:00 pm

B. Monday through Saturday

VII. Unit Price Chart for Polished Concrete Material and Installation

Description		**Price**	**Unit of Measure**
Gloss Attainment			
(1) Level A	Low Gloss	$	square foot
(2) Level B	Medium Gloss	$	square foot
(3) Level C	High Gloss	$	square foot
Cut Levels			
(1) Level 1	Light	$	square foot
(2) Level 2	Slightly Deeper	$	square foot
(3) Level 3	Deep	$	square foot

EPOXY FLOORING MATERIAL AND INSTALLATION QUOTE SHEET

VII. ***This must be included with your bid submittal.***

VIII. Price shall include all delivery and storage costs.

IX. Price shall include all things necessary for a professional job, including concrete scraping, sanding, bead blasting, etc.

X. Substrate is to be on-grade concrete and lightweight concrete.

XI. There is a nine (9) square yard minimum purchase requirement.

XII. The standard work week shall be from 6:00 am – 9:00 pm, Monday through Saturday.

Product Description	**Unit Price of Material and Installation**	**Unit Measurement**
Standard Epoxy Coating Material	$	per square foot
Standard Epoxy Coating Installation	$	per square foot
Kitchen / Food Prep Epoxy Coating Material	$	per square foot
Kitchen / Food Prep Epoxy Coating Installation	$	per square foot
Quick Epoxy Coating Material	$	per square foot
Quick Epoxy Coating Installation	$	per square foot

PRICE SCHEDULE – RESILIENT FLOORING MATERIAL AND INSTALLATION

I. GENERAL

A. ***This must be included with your bid submittal. Listed materials have "or equal" clause in all instances.***

B. Materials price must include shipment and delivery costs.

C. Material and installation price categories may be listed separately.

II. MINIMUMS

A. Roll goods have a 65 yard minimum purchase requirement

B. Tile has a one (1) carton minimum purchase order requirement.

III. PRICING - MATERIAL

A. Include the following:

1. Shipment
2. Delivery
3. Material packaging
4. 24 hour delivery notice

IV. PRICING - INSTALLATION

A. Include the following:

1. Installation of materials
2. Adhesives
3. Specialty tools
4. Primers
5. Sealers
6. Sundry items
7. Material handling and inspection
8. Project management
9. Manufacturer's installation guidelines
10. Any labor related items that are associated with installation

B. Installation shall not include the following:

1. Demo of existing flooring and wall base
2. Disposal of existing materials
3. Floor preparation

4. Equipment moving
5. Furniture moving
6. Moisture mitigation

V. STANDARD WORK WEEK

A. Shall be from 6:00 am – 9:00 pm

B. Monday through Saturday

VI. UNIT PRICE CHART FOR SPORTS FLOORING MATERIALS

Product	**Material Type**	**Size**	**Price of Material Per Unit**	**Unit Measurement**
Replay™ Commotion Multi-functional and Sport Rubber Flooring				
Commotion *or equal*	Sheet Flooring	¼, 4’ x 75’ rolls	$	per square yard
	Tile	3/8”, 24”x24” tile	$	per carton
	Interlocking Tile	3/8”, 24”x24” tile	$	per carton
Training Recreational Sheet Flooring				
*Training *or equal*	Rolls	5.0 mm, 6’6” x 67’	$	per square yard
Triumph Multi-Functional and Sports Rubber Tiles				
*Triumph *or equal*	*Square Tile	24”x24”	$	per carton
	Interlocking Tile	24”x24”	$	per carton
	UnderLock Tile™	24”x24”	$	per carton
Inertia™ Multi-Functional and Sports Rubber Tiles				
Inertia *or equal*	Square Tile	24”x24”	$	per carton
	Interlocking Tile	24”x24”	$	per carton
	UnderLock Tile™	24”x24”	$	per carton
	SlideLock™ Tile	24”x24”	$	per carton
Heat weld seam and rod			$	per linear foot
6" self cove with cap metal			$	per linear foot

*Indicate the exact price in the Bid Form (Basis of Award).

VII. Unit Price Chart Sports Flooring Installation

Product	**Material Type**	**Installation Unit**	**Price of Installation Per Unit**	**Unit Measurement**
Replay™ Commotion Multi-functional and Sport Rubber Flooring				
Commotion Or equal	Sheet Flooring	Square yard	$	per yard
	Tile	Per foot	$	per foot
	Interlocking Tile	Per foot	$	per foot
Training Recreational Sheet Flooring				
*Training Or equal	Rolls	Square yard	$	per yard
Triumph Multi-Functional and Sports Rubber Tiles				
*Triumph Or equal	*Square Tile	Per foot	$	per foot
	Interlocking Tile	Per foot	$	per foot
	UnderLock Tile™	Per foot	$	per foot
Inertia™ Multi-Functional and Sports Rubber Tiles				
Inertia Or equal	Square Tile	Per foot	$	per foot
	Interlocking Tile	Per foot	$	per foot
	UnderLock Tile™	Per foot	$	per foot
	SlideLock™ Tile	Per foot	$	per foot
Heat weld seam and rod			$	per linear foot
6" self cove with cap metal			$	per linear foot

*Indicate the exact price in the Bid Form (Basis of Award).

PRICE SCHEDULE – CARPET CLEANING SERVICE

I. GENERAL

A. ***This must be included with your bid submittal.***

B. Materials price must include shipment and delivery costs.

C. Material and installation price categories may be listed separately.

II. REQUIREMENT

A. Invista Corporation is to approve carpet cleaning chemistry.

III. PRICING - SERVICE

A. Service includes all necessary items for a completed project.

B. Price includes all services and chemistry listed in the specifications

C. Work is to be non-prevailing rates.

D. Work is to be performed during non-regular hours (shift work).

IV. STANDARD WORK WEEK

A. Shall be 6:00 am – 9:00 pm

B. Monday through Saturday

C. Work is to be performed during non-regular hours (shift work)

V. Unit Price Chart for Cleaning Service

Service Description	**Price of Cleaning Service per Unit**	**Unit Measurement**
Five (5) step cleaning process	$	per square foot
Above grade areas (additional)	$	per square foot
Furniture moving	$	per manhour
Ozone air cleansing	$	per hour

ANCILLARY ITEMS [1] – REMOVAL AND DISPOSAL

I. ***This must be included with your bid submittal.***

II. Removal and disposal shall include all associated costs such as trash bags, dumpsters, transportation, tipping fees, etc.

III. Substrates include lightweight concrete, standard cast in place concrete and wood.

IV. Recycling process shall follow all legal and local requirements.

V. All tile and hard surface material, including adhesives, shall be 100% free of any asbestos containing materials.

VI. The standard work week shall be from 6:00 am – 9:00 pm, Monday through Saturday.

Product Description	**Price of Removal and Disposal per Unit**	**Unit Measurement**
Existing Flooring Materials	$	per yard
Latex Backed Carpet	$	per yard
Hot Melt Backed Carpet	$	per yard
Unitary Backed Carpet	$	per yard
Rubber Backed Carpet	$	per yard
Vinyl Backed Carpet	$	per yard
VCT	$	per linear foot
Sheet Vinyl	$	per yard
Linoleum Vinyl	$	per yard
Wood Panel Sub Flooring	$	per linear foot

ANCILLARY ITEMS [2] – FURNITURE MOVING, CONTAINERS, FLOOR PREPARATION, AND CONCRETE VAPOR EMISSION RETARDER SEALANT

I. ***This must be included with your bid submittal.***

II. Standard work week shall be from 6:00 am - 9:00 pm, Monday through Saturday.

III. Furniture Moving in a Standard Classroom

A. 32 student desks

B. 1 teacher's desk

C. 4 bookcases

D. 25 boxes

E. 3 rolling cabinets

F. No loose items

Description	Price or Amount	Unit Measurement
Amount of Man Hours		n/a
Charge per Man Hour	$	per man hour
Standard Man Hour Rate for Regular Time	$	per man hour
Man Hour Rate for Saturday	$	per man hour
Man Hour Rate for Sunday	$	per man hour

IV. Furniture Moving in a Modular Classroom

A. The modular lift is to include carpet tile installation and demo of existing flooring with no loose items.

B. Cost is per desk section with a minimum of four (4).

Price	Unit Measurement
$	per yard

V. Floor Preparation for Carpet in a Standard Classroom

Description	Price or Amount	Unit Measurement
960 square feet of concrete with no anomalies		amount of man hours
960 square feet of concrete with no anomalies	$	per man hour
Standard Man Hour Rate for Regular Time	$	per man hour
Man Hour Rate for Saturday	$	per man hour
Man Hour Rate for Sunday	$	per man hour

VI. Floor Preparation for VCT and Sheet Vinyl in a Standard Classroom

Description	Price or Amount	Unit Measurement
960 square feet of concrete with no anomalies		amount of man hours
960 square feet of concrete with no anomalies	$	per man hour
Standard Man Hour Rate for Regular Time	$	per man hour
Man Hour Rate for Saturday	$	per man hour
Man Hour Rate for Sunday	$	per man hour

VII. Wood Panel Floor Re-Sheeting, With a Minimum of 320 Square Feet

Price	Unit Measurement
$	per foot

VIII. Concrete Vapor Emission and Moisture Proofing

A. Price shall be based on pounds of vapor emission per 1,000 square feet of concrete.

B. Price shall represent the cost of material, the application of material, bonding, insurance, and any other necessary items that may not be listed.

C. If bead blasting is required the price shall reflect that costing.

Description	Price or Amount of Material & Labor	Unit Measurement
5 – 8 pounds MVER	$	per square foot
8 – 10 pounds MVER	$	per square foot
10 – 12 pounds MVER (Koester)	$	per square foot
Plastic Protection	$	per square yard

IX. Concrete Vapor Emission Chemicals and Application

A. Contractor will be responsible for the listed items:

1. Warranties
2. Sundries, equipment, applicators, and tools
3. Chemicals, delivery, and disposal
4. Compatibility issues
5. Substrate preparation
6. Bead blasting
7. Protection
8. Plastic coverings
9. Concrete vapor emission testing

B. Contractor will be responsible for any other related items that may not be listed.

X. Carpet Manufacturer Approved Carpet Protection

Description	Price of Application and Disposal	Unit Measurement
Paper	$	per square foot
Plastic	$	per square foot

ANCILLARY ITEMS [3] – RUBBER FLOORS, STAIR TREADS AND TRIMS QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. Minimum installation area shall be 500 square feet.

III. Installation shall include adhesives, labor, storage, and delivery.

IV. The standard work week shall be from 6:00 am - 9:00 pm, Monday through Saturday.

Product Description	**Price of Material & Installation per Unit**	**Unit Measurement**
Mondo Zeus Rubber Floors – 39 3/8"x 39 3/8"	$	per linear foot
Mondo Advance 6' Rubber Roll – 8 mm	$	per linear foot
Mondo Advance 6' Rubber Roll – 10 mm	$	per linear foot
Mondo Ram Flex Weight Room 36"x36" Tile – 10 mm	$	per linear foot
Mondo Zeus 24"x24" Tile – 3 mm	$	per linear foot
Raised Rubber Coin Stair Tread – 4'	$	per tread
Raised Rubber Coin Stair Tread – 6'	$	per tread
Raised Rubber Coin Stair Tread – 8'	$	per tread
10" Rubber Stringer with a 10' Minimum Purchase	$	per linear foot

ANCILLARY ITEMS [4] – CARPET MATERIAL INSTALLATION QUOTE SHEET

I. ***This must be included with your bid submittal.***

II. The installation price shall include all sundry items necessary to install the flooring material, which includes primers, adhesives, sealers, and welding agents.

III. The price does not include demolition of existing floor, floor preparation, wall base, etc.

IV. The standard work week shall be from 6:00 am - 9:00 pm, Monday through Saturday.

Product Description	**Price of Installation per Unit**	**Unit Measurement**
Powerbond Cushion RS 6' Roll Goods	$	per yard
Powerbond Cushion Dry Back 6' Roll Goods	$	per yard
ER3 Carpet Tile with RS Backing	$	per yard
ER3 Dry Back Carpet Tile	$	per yard

ANCILLARY ITEMS [5] – HAZARDOUS MATERIAL REPORTS AND AS BUILTS

I. Approximate budget for year 1: $200,000.00

II. Approximate budget for year 2: $200,000.00.

III. Approximate budget for year 3: $200,000.00.

IV. Actual budget for this contract may vary due to budgetary allocations.

V. As built plans and hazardous material reports are available at the Maintenance and Support Services Office located at 300 Buena Vista, Corona, CA, 92882.

VI. District contacts for this contract are:

Peace Aneke, Purchasing, 2820 Clark Avenue, Norco, CA, 9286, 951-736-5050

Andrew Sterner, Support Services, 300 Buena Vista, Corona, CA, 92882, 951-736-3316

Ernie Marez, Operations, 300 Buena Vista, Corona, CA, 92882, 951-736-3316

General Conditions for Contract of Construction

Appendix C

General Conditions Distributed Separately

WORK ORDER

SAMPLE WORKORDER

THIS AGREEMENT is made and entered into this _____ day of _____ by and between_____, hereinafter called the "CONTRACTOR" and CORONA-NORCO UNIFIED SCHOOL DISTRICT, hereinafter called the "DISTRICT".

WITNESSETH: The parties do hereby contract and agree as follows:

1. The District in agreement with _____ (flooring contractor's name) agrees to expedite and complete work at the following District locations:

a.		b.	
c.		d.	

2. Pricing, material usage, and approval will be based on the agreed proposals provided by _____ (contractor) on _____ (date).

3. Services shall commence on _____ (date) and be completed by _____ (date).

4. Hours available to work are as follows: 6:00 am - 9:00 pm, Monday through Saturday.

5. District contacts for work under this Agreement: Andrew Sterner, Director, Support Services and Ernie Marez, Supervisor, Support Services. Phone: 951-736-3316

6. Requirements:

   _____ Purchase Order to Execute

7. Contractor's Warehouse Location (address):

   _____

   _____

Acknowledgements to Requirements Above:

Company Name
Company Street Address
Company City, State, Zip
Company Telephone Number
Company Fax Number
By:

_____
Signature

_____
Printed Name and Title

_____
Date

Corona-Norco Unified School District
2820 Clark Avenue
Norco, California, 92860
Phone (951) 736-3316
Fax (951) 736-7199
By:

_____
Acknowledged

District Contact:_____

_____
Date