PURCHASING DEPARTMENT

COLE COUNTY COMMISSION

311 East High Street, Room 200 | Jefferson City, MO 65101
Tel 573-634-9168 | Fax 573-634-8031
jprenger@colecounty.org

To: All Interested Parties
From: Jennifer Prenger, Cole County Purchasing Agent
Date: August 27, 2018
Re: Addendum One to Cole County Bid No. 2018-34: Shingle Roof Replacement, Public Works Salt Storage Facility

The following information hereby becomes part of the above-referenced Request for Bid and shall be fully considered in the preparation of your response.

1. Plywood replacement shall be bid per square foot.

2. Per the recommendations of the pre-bid participants, the County is requesting pricing for a rubber roof with a 15-year warranty to replace the existing shingle roof.

3. New 2" x 12" fascia board should be installed around the entire building with a termination bar screwed in from the bottom; fascia shall be membrane-wrapped to the termination bar.

4. Installation must include ½" DensDeck Prime roof board or alternate equivalent, spec sheet attached.

5. All items shall be installed per manufacturer's recommendations. Contractor will be bear responsibility to remedy anything installed otherwise and will be responsible for any warranty voided by failure to do so.

The bid receipt date and time <u>HAVE NOT BEEN CHANGED</u>; submissions will be received until <u>Thursday, September 6 at 3:30 p.m</u>. The deadline for questions is Thursday, August 30, 2018.

I/We have received Addendum Number One to Bid No. 2018-34 and have fully considered the information provided in preparing a response.

_____
Name of Company

_____
Agent and Title Authorized Signature

BID NUMBER 2018-34

BIDDER RESPONSE FORM

The undersigned agrees to enter into a contract with Cole County to provide work and services for the replacement of the current shingle roof with a rubber roof:

- **TOTAL PROJECT COST:** $ _____
- **PLYWOOD REPLACEMENT:** $ _____ per square foot

PROPOSED TIMEFRAME.

Working days required: _____ days

Availability to begin work: _____

_____

Statement of warranty for products and workmanship:

_____

_____

_____

_____

Name of Company

_____

Authorized Signature

DENSGUARD

DENSDECK PRIME™
Roof Guard

MANUFACTURER

Georgia-Pacific Corporation
55 Park Place, 19th Floor
Atlanta, GA 30303
Technical (800) 225-6119 (8-6 ET)

DESCRIPTION

DensDeck Prime™ Roof Guard is an exceptional fire barrier, thermal barrier and recovery board used in various commercial roofing systems. The product features a pre-primed surface to make the bond even stronger. The patented DensDeck design employs glass mat facings front and back that are embedded into a water resistant and moisture-resistant treated core, providing excellent fire resistance, moisture resistance and wind uplift properties. The unique construction of DensDeck Prime provides superior flute spanning and will help stiffen and stabilize the roof deck. Additionally, DensDeck Prime has been shown to withstand delamination, deterioration, warping and job-site damage more effectively than roofing membrane substrates such as paper-faced gypsum board, fiberboard and perlite insulation. DensDeck Prime resists the growth of mold and mildew per ASTM D 3273.

PRIMARY USES

Roof system manufacturers and designers have found DensDeck Prime Roof Guard to be compatible with many types of roofing systems, including: modified asphalt, single-ply, metal systems, recover board, as well as an overlayment for polyisocyanurate and polystyrene insulation. DensDeck Prime can also be used as a form board for poured gypsum concrete deck in roof applications as well as a substrate for spray foam roofing systems. ½" and ⅝" DensDeck Prime may also be used in vertical applications as a backer board or liner for the roof side of parapet walls.

DensDeck Prime allows the bonding of cold mastic modified bitumen and torching directly to the surface. **Consult with the system manufacturer for recommendations on this application.** System manufacturers and designers have found DensDeck Prime to be compatible with bonding adhesives for fully-adhered single-ply membrane applications and has been shown to extend the adhesive usage.

DensDeck Prime's exceptional moisture resistance make it the preferred substrate for vapor retarders.

An excellent fire barrier, DensDeck Prime features a noncombustible core and inorganic surface that offers greater fire protection than other conventional commercial roofing products when applied over combustible roof decks and steel decks. DensDeck Prime is FM tested and approved as the only ½" gypsum product to meet the calorimeter requirements for conventionally insulated decks. Tested in accordance with ASTM E 84, its surface burning characteristics are Flame Spread-0 and Smoke Developed-0. ⅝" DensDeck Prime can replace any generic Type X gypsum board in any roof assembly in the UL Fire Resistance Directory under the prefix "P".

LIMITATIONS

DensDeck Prime is designed to act with a properly designed roof system. The actual use of DensDeck Prime Roof Guard as a roofing component is the responsibility of the roofing system's designing authority. Georgia-Pacific does not offer roofing system design services.

Conditions beyond the control of Georgia-Pacific such as weather conditions, dew, application temperatures and techniques may cause adverse effects with adhered roofing systems. Always consult roofing manufacturers for their specific instructions on applying their products to DensDeck Prime roof board.

Panels must be kept dry before, during and after installation. Apply only as much DensDeck Prime as can be covered by a roof membrane system in the same day.

Accumulation of water due to leaks or condensation in or on DensDeck Prime Roof Guard must be avoided during construction and after construction. Avoid over-use of non-vented direct-fired heaters during winter months. Avoid application of DensDeck Prime during rains, heavy fogs and other conditions that may deposit moisture on the surface.

The need for a separator sheet between the DensDeck Prime Roof Guard and the roofing membrane shall be determined by the roof membrane manufacturer or roofing systems designer.

When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.

Maximum flute span is 2⅝" for ¼" DensDeck Prime; 5" for ½" DensDeck Prime; and 8" for ⅝" DensDeck Prime Fireguard® Type X.

Consult membrane manufacturer for specific system installation instructions.

TECHNICAL DATA

Flame spread 0, smoke developed 0, when tested in accordance with ASTM E 84 or CAN/ULC-S102. Noncombustible when tested in accordance with ASTM E 136.

DensDeck Prime Fireguard: UL Classified when tested in accordance with ASTM E 119.

¼" DensDeck Prime has been tested in GP sponsored tests with Factory Mutual for 60 psf and 90 psf wind uplift for BUR, EPDM, thermoplastics and modified bitumen roof systems. Higher wind uplift ratings have been achieved by numerous membrane manufacturers using DensDeck Prime in their FMRC-approved construction designs.

INSTALLATION

1. DensDeck Prime should be used with fasteners specified in accordance with FM requirements and roof membrane manufacturer's written recommendations.
2. For wind uplift/FMRC compliance where DensDeck Prime is mechanically attached to metal decks, DensDeck Prime shall be installed to the specifics of the FMRC design assembly.
3. For installations involving BUR, EPDM, thermoplastics and modified bitumen roof systems, call the GP Technical Hotline at 1-800-225-6119 for fastener patterns of GP's FMRC uplift assemblies.
4. In accordance with approved shop drawings, FM-approved fasteners shall be installed with plates through the DensDeck Prime, flush with the surface.
5. Where DensDeck Prime is installed over combustible wood decks or insulation, all joints should be staggered. The optional separator sheet should be installed prior to DensDeck Prime installation.
6. Edge joints should be located on, and parallel to, deck ribs. End joints of adjacent lengths of DensDeck Prime should be staggered.
7. For FM Class I-60, fastener density typically is increased by 50% at the roof corners, in conjunction with FM-approved covering.
8. For FM Class I-90, fastener density typically is increased by 50% at the roof corners and roof perimeter, in conjunction with FM-approved covering.

ISO 9000 ID No.: S723-PRD-074

SUBMITTAL APPROVALS: (Stamps or Signatures)
☐ ¼"—6.4mm
☐ ½"—12.7mm
☐ ⅝"—16mm

G-P Gypsum
a Georgia-Pacific company

9. Adhered Systems: Insta-Foam Products, Inc.'s Insta-Stik Adhesive used with ¼" DensDeck Prime™ achieved Ia FMRC Class I-180 according to test report 1Y7A5.AM in selected Class 1 insulated steel and concrete deck roof construction. Contact Insta-Foam Products, Inc. for details at 1-800-800-FOAM.
10. DensDeck Prime shall be installed with ends and edges butted tightly.
11. DensDeck Prime is manufactured to conform to ASTM C 1177.

PRODUCT DATA

Thickness: ¼" (6.4mm); ½" (12.7mm); ⅝" (15.9mm) Fireguard® Type X

Widths: 4' (1220mm) standard, ⅛" (3mm) tolerance

Lengths: 8' (2440mm) standard, tolerance ¼" (6.4mm); Optional: 4' (1220mm) available

Edges: Square

Spanning: ¼" DensDeck Prime spans flute widths up to 2⅝"; ½" DensDeck Prime spans flute widths up to 5"; ⅝" DensDeck Prime spans flutes up to 8" wide

PHYSICAL PROPERTIES

PROPERTIES	¼" DENSDECK PRIME™	½" DENSDECK PRIME™	⅝" DENSDECK PRIME™ FIREGUARD®
Thickness, nominal inches	5/16"	½"	⅝"
Width, standard	4'	4'	4'
Length, standard	8' ± ¼"	8' ± ¼"	8' ± ¼"
Weight, lbs./M sq. ft., nominal	1100	1950	2500
Surfacing	Glass mat/primed	Glass mat/primed	Glass mat/primed
Flexural Strength, Parallel, lbs. min.[4]	40	80[5]	100[5]
Flexural Strength, Perpendicular, lbs. min.[4]	50	100[5]	140[5]
Flute Spanability[1]	2⅝"	5"	8"
Permeance Perms[2]	50	35	32
R Value[3]	.28	.56	.67
Coefficient of Thermal Expansion, Inches/inch/°F	8.5 x 10^{-6}	8.5 x 10^{-6}	8.5 x 10^{-6}
Linear Variation with Change in Moisture in/in/%RH	6.25 x 10^{-6}	6.25 x 10^{-6}	6.25 x 10^{-6}
Absorption, % max[4]	10.0	10.0	10.0
Compression, psi	500	500	500
Surface Water Absorption, grams[4]	2.5	2.5	2.5
Flame Spread Smoke Developed (ASTM E 84)	0	0	0
Fire Classification	UL Class A, ULC S-102 UL 1256, ULC S-126	FMRC Class 1 UL 1256, ULC S-126 UL Class A, ULC 102	FMRC Class 1 UL Classified "P" assemblies ULC S-101
FM Uplift Approvals	60 and 90 psf uplift	FMRC 1-60, 1-90	FMRC 1-60, 1-90

[1]Tested in accordance with ASTM E 661 (400 lb. conc. load).
[2]Tested in accordance with ASTM C 355 (dry cup method).
[3]Tested in accordance with ASTM C 518 (heat flow meter).
[4]Tested in accordance with ASTM C 473.
[5]ASTM C 1177 minimums.

Technical Information

U.S.A. and Canada: 1-800-225-6119
Mon.-Fri., 8 a.m.-6 p.m.

Sales Information and Order Placement

U.S.A.
Midwest: 1-800-876-4746
South: 1-800-327-2344
Northeast: 1-800-947-4497
West: 1-800-824-7503

CANADA
Canada Toll Free: 1-800-387-6823
Quebec Toll Free: 1-800-361-0486
Canada Toll Free Fax: 1-800-387-8975

Firestone BUILDING PRODUCTS

ISO 9000 ID No.: S723-PRD-074

Or visit our Web site at www.gpgypsum.com

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