

Request for Proposal

New TPO Roof for
Building #440 is located at 1004 Gilbert Dr.

LUBBOCK REESE REDEVELOPMENT AUTHORITY (LRRRA)
d/b/a/ Reese Technology Center (RTC)

The LRRRA will receive written and sealed Proposals for a New TPO Roof for Building #440 at 1004 Gilbert Dr. per the following agreement. There will be a **MANDATORY PRE-BID CONFERENCE** at **10:00AM CST on Thursday, May 9, 2019** at 1004 Gilbert Drive, Lubbock, TX. Sealed Proposals will be received until **10:00AM CST, Wednesday, May 15, 2019**, at LRRRA. Proposals received after that date and time will not be opened. Each proposal and supporting documentation must be in a sealed envelope or container plainly labeled: "*RFP for New TPO Roof for Building #440*". Bid proposals are to include the Contractor's company name and address on the front of the envelope or container. Questions regarding the bid proposals and all bid submissions are to be addressed to:

James Todd, Manager of Operations
9801 Reese Blvd., Suite 200
Lubbock, Texas 79416
(806) 885-6592
Email: jtodd@reesecenter.com

Bids will be opened and evaluated on **Wednesday, May 15, 2019 at 10:00AM CST**. However, bids must be firm for a 30-day period from bid opening date in case the Board of Directors desires additional evaluation time. Bid will be awarded on **Wednesday, May 22, 2019 at 7:30AM CST**.

With uncertainty of mail delivery, the RTC cannot be responsible for bids which are not received before bid opening hour.

In as much as comparison sheets are sent to all bidders and posted to the RTC website, bid quotations will not be communicated by telephone. Interested bidders are encouraged to attend the bid opening should they desire quotations.

RTC reserves the right to accept or reject any or all bids submitted and shall be the sole judge in this matter.

RTC is exempt from all city, state, and federal sales tax. Your signed and otherwise correctly completed sealed bid (one copy only) should meet the following specifications or RTC may, at its option, refuse to consider the bid.

It is to be understood that upon the award of this bid the successful bidder(s) is/are responsible for complying with the Prompt Payment Act, effective July 1, 1986 (Government Code CHS. 2251.001-2251.043)

Vendors are required to have and maintain, at no cost to RTC, insurance of the types and amounts as required by law and/or the bid specification.

In those instances where manufacturer and/or model numbers of equipment/materials are referenced as "equal in quality", it is not RTC's intent to rule out other manufacturers, nor will the named

manufacturer receive preferential treatment. RTC is the sole judge in determining the suitability of items bid.

Should vendors have deviations from bid specifications, all deviations must be listed on a self-scribed attachment. This attachment must also be signed by an authorized company representative and be attached to the vendors original bid.

RTC is subject to the Texas Public Information Act, Chapter 552, Texas Government Code. Proposals submitted to RTC in response to this RFP are subject to release by RTC as public information. If the Proposer believes that the proposal, or parts of it, are confidential, as proprietary information, (s)he must specify that either all or part is accepted and provide specific and detailed justification for its claim of confidentiality. Vague and general claims to confidentiality are not acceptable. All proposals or parts of the proposals which are not marked as confidential will be considered public information after contract has been awarded. The successful proposal may be considered public information even though parts are marked confidential.

RTC assumes no responsibility for asserting legal arguments on behalf of Proposers. Proposers are advised to consult with their legal counsel concerning disclosure issues resulting from this proposal process and to take precautions to safeguard trade secrets and other proprietary information.

REQUIREMENTS

- Company to be established in business for a minimum of five years. Three business references are to be provided to LRRR with the bid proposal (RFP).
- "Attachment A" Specifications and Scope of Work
- "Attachment B" BID FORM
- "Attachment C" Site Map
- Access to Website: www.ReeseCenter.com, where all applicable documents and drawings are located (www.ReeseCenter.com/rfp-docs)
- Contractor to provide Certificate of Insurance with the bid proposal to RTC. Contractor to carry Worker's Compensation Insurance and Contractor's Public Liability in the amount of one million (\$1,000,000) and Property Damage and Loss Insurance, if contractor has any employees working with him / her on the job, otherwise the Workers Compensation is not required. All employees of contractor working at the RTC under this contract must be covered by Contractors' Workers Compensation Insurance

ATTACHMENT A
Specifications and Scope of Work
New TPO Roof for Building #440

PART 1 GENERAL

1.01 DESCRIPTION

- A. The Reese Building #440 is located at 1004 Gilbert Dr. Lubbock, TX 79416. James Todd, Manager of Operations (MOO) is the Owner's Representative and may be contacted regarding any questions or for a pre-bid job site inspection at (806) 544-9597.
- B. The project consists of installing (TPO) white FleeceBACK 115 membrane adhered with Adhesive as outlined below:

Apply the FleeceBACK Adhered Roofing System in conjunction with 2" Polyiso after tear off of the existing roof system to expose the Gypsum deck for verification of suitable substrate as specified in this specification. Decking to be replaced by contractor. New decking to be Tectum I roof deck. Owner has between 40 to 50 sheets left over from previous project. Contractor will need to inspect the Tectum I roof decking and order any additional decking to complete the project.

1.02 EXTENT OF WORK

- A. Provide all labor, materials, tools, equipment, and supervision necessary to complete the installation of the FleeceBACK Adhered Roofing System including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications and details.
- B. The roofing contractor shall be fully knowledgeable of all requirements of the contract documents and shall make themselves aware of all job site conditions that will affect their work.
- C. The roofing contractor shall confirm all given information and advise the MOO, prior to bid, of any conflicts that will affect their cost proposal.

1.03 SUBMITTALS

- A. Prior to starting work, the roofing contractor must submit the following:
 - 1. A sample of the manufacturer's Membrane System Warranty.
 - 2. Submit a letter of certification from the manufacturer which certifies the roofing contractor is authorized to install the manufacturer's roofing system and lists foremen who have received training from the manufacturer along with the dates training was received.
 - 3. Certification from the membrane manufacturer indicating the membrane thickness over the reinforcing scrim (top ply membrane thickness) is nominal .015-mil or thicker.

4. Certification of the manufacturer's warranty reserve.
- B. Upon completion of the installed work, submit copies of the manufacturer's final inspection to the MOO prior to the issuance of the manufacturer's warranty.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the job site in the manufacturer's original, unopened containers or wrappings with the manufacturer's name, brand name and installation instructions intact and legible. Deliver in sufficient quantity to permit work to continue without interruption.
- B. Comply with the manufacturer's written instructions for proper material storage.
 1. Store membrane in a dry, cool, shaded area in the original undisturbed plastic. Membrane that has been exposed to the elements for approximately 7 days must be prepared with Weathered Membrane Cleaner prior to hot air welding.
 2. Store curable materials (adhesives and sealants) between 60°F and 80°F in dry areas protected from water and direct sunlight. If exposed to lower temperature, restore to 60°F minimum temperature before using.
 3. Store materials containing solvents in dry, well ventilated spaces with proper fire and safety precautions. Keep lids on tight. Use before expiration of their shelf life.
- C. Insulation must be on pallets, off the ground and tightly covered with waterproof materials.
- D. Any materials which are found to be damaged shall be removed and replaced at the applicator's expense.

1.05 WORK SEQUENCE

- A. Schedule and execute work to prevent leaks and excessive traffic on completed roof sections. Care should be exercised to provide protection for the interior of the building and to ensure water does not flow beneath or wick into any completed sections of the membrane system.

1.06 USE OF THE PREMISES

- A. Before beginning work, the roofing contractor must secure approval from the building owner's representative for the following:
 1. Areas permitted for personnel parking.
 2. Access to the site.
 3. Areas permitted for storage of materials and debris.

4. Areas permitted for the location of cranes, hoists and chutes for loading and unloading materials to and from the roof.

1.07 EXISTING CONDITIONS

If discrepancies are discovered between the existing conditions and those noted on the drawings, immediately notify the owner's representative by phone and solicit the manufacturer's approval prior to commencing with the work. Necessary steps shall be taken to make the building watertight until the discrepancies are resolved.

1.08 PRECONSTRUCTION CONFERENCE

- A. A pre-bid meeting will be held at the job site on **Thursday, May 9 at 10:00 AM**. Contact the owner's representative, James Todd, Manager of Operations (MOO), at (806) 544-9597 if there are any questions.
- B. Prior to bid submittal, the roofing contractor should schedule a job site inspection to observe actual conditions and verify all dimensions on the roof. The job site inspection may occur on the day of the pre-bid meeting or prior to such a meeting. Should access to the roof be necessary before or after the pre-bid meeting, the contractor must contact the owner's representative, to coordinate an appropriate time.
- C. Bids must be forwarded to the following address no later than 10:00 AM on Wednesday, May 15, 2019: Reese Technology Center, ATTN: James Todd, 9801 Reese Blvd, Ste. #200, Lubbock, TX 79416 or jtodd@reesecenter.com.
- D. Any conditions which are not shown on the shop drawings should be indicated on a copy of the shop drawing and included with bid submittal if necessary, to clarify any conditions not shown.

1.09 TEMPORARY FACILITIES AND CONTROLS

- A. Temporary Utilities:
 1. Water, power for construction purposes and lighting are not available at the site and will not be made available to the roofing contractor.
 2. Provide all hoses, valves and connections for water from a source designated by the MOO when made available.
 3. When available, electrical power should be extended as required from the source. Provide all trailers, connections and fused disconnects.
- B. Temporary, Sanitary Facilities
Sanitary facilities will not be available at the job site. The roofing contractor shall be responsible for the provision and maintenance of portable toilets or their equal.

- C. Building Site:
 - 1. The roofing contractor shall use reasonable care and responsibility to protect the building and site against damages. The contractor shall be responsible for the correction of any damage incurred as a result of the performance of the contract.
 - 2. The roofing contractor shall remove all debris from the job site in a timely and legally acceptable manner so as to not detract from the aesthetics or the functions of the building.
- D. Security:

Obey the owner's requirements for personnel identification, inspection and other security measures.

1.10 JOB SITE PROTECTION

- A. The roofing contractor shall adequately protect building, paved areas, service drives, lawn, shrubs, trees, etc. from damage while performing the required work. Provide canvas, boards and sheet metal (properly secured) as necessary for protection and remove protection material at completion. The contractor shall repair or be responsible for costs to repair all property damaged during the roofing application.
- B. Do not overload any portion of the building, by either use of or placement of equipment, storage of debris, or storage of materials.
- C. Protect against fire and flame spread. Maintain proper and adequate fire extinguishers.
- D. Take precautions to prevent drains from clogging during the roofing application. Remove debris at the completion of each day's work and clean drains, if required. At completion, test drains to ensure the system is free running and drains are watertight. Remove strainers and plug drains in areas where work is in progress. Install flags or other telltales on plugs. Remove plugs each night and screen drain.
- E. Store moisture susceptible materials above ground and protect with waterproof coverings.
- F. Remove all traces of piled bulk material and return the job site to its original condition upon completion of the work.

1.11 SAFETY

The roofing contractor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. **Safety shall be the responsibility of the roofing contractor.** All related personnel shall be instructed daily to be mindful of the full-time requirement to maintain a safe environment for the facility's occupants including staff, visitors, customers and the occurrence of the general public on or near the site.

1.12 WORKMANSHIP

- A. Applicators installing new roof, flashing and related work shall be factory trained and approved by the manufacturer they are representing.
- B. All work shall be of highest quality and in strict accordance with the manufacturer's published specifications and to the building owner's satisfaction.
- C. There shall always be a supervisor on the job site while work is in progress.

1.13 QUALITY ASSURANCE

- A. The Membrane Roofing System must achieve a UL Class A,
- B. The membrane must be manufactured by the material supplier. Manufacturer's supplying membrane made by others are not acceptable.
- C. Unless otherwise noted in this specification, the roofing contractor must strictly comply with the manufacturer's current specifications and details.
- D. The roofing system must be installed by an applicator authorized and trained by the manufacturer in compliance with shop drawings as approved by the manufacturer. The roofing applicator shall be thoroughly experienced and upon request be able to provide evidence of having at least five (5) years successful experience installing single-ply roofing systems and having installed at least Seven (7) roofing application or several similar systems of equal or greater size within one year.
- E. Provide adequate number of experienced workmen regularly engaged in this type of work who are skilled in the application techniques of the materials specified. Provide at least one thoroughly trained and an experienced superintendent on the job at all times roofing work is in progress.
- F. There shall be no deviations made from this specification or the approved shop drawings without the prior written approval of the MOO. Any deviation from the manufacturer's installation procedures must be supported by written certification on manufacturer's letterhead and presented for the MOO's consideration.
- G. The TPO White membrane meets CRRC (Cool Roof Rating Council) for reflectance and emittance. When tested in accordance with ASTM C1549, the White material has an initial solar reflectance of 0.79 and a 3-year aged reflectance of 0.70. The material has also been tested for emittance in accordance with ASTM C1371; an initial emittance of 0.90 and a 3-year aged emittance of 0.86 were achieved.
- H. The White TPO membrane meets the emittance requirements set forth by the USGBC (U. S. Green Building Council) for their LEED (Leadership in Energy and Environmental Design) Program. The White TPO material has an emittance of 0.90 (when tested in accordance with ASTM E408) and an SRI (solar reflectance index) of 99 (calculated using ASTM E 1980).

- I. Upon completion of the installation, the applicator shall arrange for an inspection to be made by a non-sale's technical representative of the membrane manufacturer in order to determine whether or not corrective work will be required before the warranty will be issued. Notify the MOO seventy-two (72) hours prior to the manufacturer's final inspection.

1.14 JOB CONDITIONS, CAUTIONS AND WARNINGS

Refer to manufacturer's recommended Fleeceback Adhered Roofing System specification for General Job Site Considerations.

- A. Safety Data Sheets (SDS) must be on location at all times during the transportation, storage and application of materials.
- B. **Do not apply Adhesive** when surface and/or ambient temperatures are **below 25°F**.
- C. The contractor must exercise caution during adhesive spraying to avoid overspray. Use a non-atomizing spray tip such as the Graco Spatter Tip and reduce spray pressure to 500 – 800 psi to increase adhesive droplet size and reduce air born mist. Maintain hand held wind screens on-site for use as necessary. Extruding adhesive method may be used to eliminate overspray concerns.
- D. When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain sumps. All field splices should be shingled to prevent bucking of water.
- E. When loading materials onto the roof, the Applicator must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building structure.
- F. Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.
- G. Proceed with work so new roofing materials are not subject to construction traffic. When necessary, new roof sections shall be protected and inspected upon completion for possible damage. Provide protection, such as 3/4-inch-thick plywood, for all roof areas exposed to traffic during construction. Plywood must be smooth and free of fasteners and splinters.
- H. The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application of or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.

- I. New roofing shall be complete and weather tight at the end of the work day. Care must be taken to avoid wicking water through the fleece by properly sealing exposed edges of the membrane
- J. Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with the roofing membrane.

1.15 WARRANTY

- A. Provide manufacturer's 15-year, Total System Warranty covering both labor and material with no dollar limitation. The maximum wind speed coverage shall be peak gusts of 72 mph measured at 10 meters above ground level. Certification is required with bid submittal indicating the manufacturer has reviewed and agreed to such wind coverage.
- B. Warranty shall also cover leaks caused by accidental punctures:
 - 1. 16 man-hours per year for 115-mil Fleeceback
- C. Warranty shall also cover leaks caused by hail:
 - 1. Hail up to 2" diameter when 115-mil Fleeceback is installed
- D. Pro-rated System Warranties shall not be accepted.
- E. Evidence of the manufacturer's warranty reserve shall be included as part of the project submittals for the MOO's approval.

PART 2 PRODUCTS

2.01 GENERAL

- A. Unless otherwise approved by the MOO and accepted by the membrane manufacturer, all products (including adhesives, insulation, fasteners, fastening plates and edgings) must be **manufactured and supplied** by the roofing system manufacturer and covered by the warranty.

2.02 DECK

- A. Existing decking is 2" poured gypsum deck on ½" gypsum board. All of the old deck needs to be removed as part of the tear down of old roof.
- B. Owner has in stock 40 to 50 sheets of Tectum I roof decking. Contractor is required to inspect tectum and get an accurate count of usable sheets. Contractor is responsible for supplying the additional sheets of tectum needed to complete the project.

- C. Existing HVAC curb is to be removed during tear down and new decking installed. There will not be a new HVAC curb installed during this project.

2.02 MEMBRANE

- A. Furnish white Fleeceback 115-mil, reinforced TPO (Thermoplastic Polyolefin) membrane. Membrane thickness over the reinforcing scrim (top-ply thickness) shall be nominal .015-mil or thicker.
- B. Membrane Color: White top surface with SRI (solar reflectance index) not less than 110, tested in accordance with ASTM E 1980.

2.03 INSULATION/UNDERLAYMENT

- A. When applicable, insulation shall be installed in multiple layers and mechanically fastened or secured with adhesive to the substrate in accordance with manufacturer's published specifications.
- B. Insulation shall be Minimum 2" thick

2.04 FASTENING COMPONENTS

To be used for mechanical attachment of insulation and to provide additional membrane securement:

A. Fasteners, Plates and Bars

1. **Polymer Gyptec Fasteners:** A non-penetrating, plastic fastener and corresponding 3" diameter plate used with lightweight deck substrates such as cementitious wood fiber, gypsum, and lightweight insulating concrete.
2. **HP Term Bar Nail-Ins:** A 1-1/4" long expansion anchor with a zinc plated steel drive pin used for fastening the Termination Bar or Seam Fastening Plates to concrete, brick, or block walls.
3. **Insulation Fastening Plates:** a nominal 3-inch diameter plastic or metal plate used for insulation attachment.

B. Insulation Adhesive:

1. **Adhesive:** An elongating impact resistant two component insulating urethane adhesive used to attach insulation and FleeceBACK membrane. Packaging formats include 50- and 15-gallon drums.
 - a. Adhesive to provide 150% elongation in conjunction with fleece backed membrane – ASTM D412

2.05 ADHESIVES, CLEANERS AND SEALANTS

All products shall be furnished by suppliers that comply with manufacturer's requirements and specifically formulated for the intended purpose.

2.06 METAL EDGING AND MEMBRANE TERMINATIONS

- A. **General:** All metal edgings shall be tested and meet ANSI/SPRI ES-1 standard and comply with International Building Code.
- B. **Drip Edge:** a metal fascia/edge system with a 22- or 24-gauge continuous anchor cleat and .032-inch-thick aluminum or 24-gauge steel fascia. Metal fascia color shall be as designated by the MOO.
- C. **SecurEdge Coping:** incorporates a 20-gauge anchor cleat with 4 pre-slotted holes, a concealed joint cover and 10-foot continuous sections of coping cap; can accommodate minimum 5 "wide parapet walls. Metal coping cap color shall be as designated by MOO.
- D. **Termination Bar :** a 1" wide and .098" thick extruded aluminum bar pre-punched 6" on center ; incorporates a sealant ledge to support Lap Sealant and provide increased stability for membrane terminations.
- E. **SecurEdge Term Bar Fascia:** A 1.75" wide formed aluminum termination bar with pre-slotted fastening holes for ease of locating and installing. The decorative cover is available in 0.040" aluminum or 24-gauge galvanized steel. SecurEdge Term Bar Fascia is manufactured in 12' lengths for fewer joints/seams, fewer sections to handle and faster installation.

PART 3 EXECUTION

3.01 GENERAL

- A. Comply with the manufacturer's published instructions for the installation of the membrane roofing system including proper substrate preparation, job site considerations and weather restrictions.
- B. Position sheets to accommodate contours of the roof deck and shingle splices to avoid bucking water.

3.02 INSULATION PLACEMENT

- A. Install insulation or membrane underlayment over the substrate with boards butted together. Fill joints or gaps greater than 1/4 inch with adhesive. Stagger joints both horizontally and vertically if multiple layers are provided.
- B. Secure insulation to the substrate with adhesive in accordance with the manufacturer's specifications.

3.03 MEMBRANE PLACEMENT AND BONDING

- A. Position and unroll successive sheets and align to provide a minimum 2-inch overlap (use pre-marked overlap line) along the selvage edge. At end laps (along the width of the sheet), membrane shall be butted together which will be overlaid with 6-inch-wide Reinforced Membrane and hot air welded on all edges.
- B. Fleeceback Membrane shall be fully adhered to an acceptable substrate with manufacturer's recommended adhesive. The adhesive is spray applied or extruded to the substrate only and the membrane is rolled into the wet adhesive once it has foamed up and reached string/gel time (approximately 2 minutes). Roll the membrane with a 150-pound segmented steel roller to set the membrane into the adhesive.

Note: Exercise care to prevent overspray onto the membrane. If adhesive should contaminate the splice area, immediately (while the adhesive is still in liquid form) clean with Weathered Membrane Cleaner or allow adhesive to cure and remove with a paint-type scraper.

- C. Position adjoining sheets to allow a minimum overlap of 2 inches to provide a minimum 1-1/2" hot air weld.
- D. Continue to install adjoining membrane sheets in the same manner, overlapping edges a minimum of 2 inches and complete the bonding procedures as stated previously.

3.04 MEMBRANE HOT AIR WELDING PROCEDURES

A. General

The Fleeceback membrane has a selvage edge (the fleece-backing is discontinued) along the length of the sheet for membrane splicing. Selvage edges are not provided along the width of the membrane; adjoining membrane sheets must be butted together and overlaid with 6-inch-wide Reinforced membrane heat welded on all sides.

B. Hot Air Welding Procedures

1. Hot air weld the Fleeceback membrane using an Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's specifications. At all splice intersections, roll the seam with a silicone roller to ensure a continuous hot air welded seam.

Note: When using 115-mil thick or thicker membrane, all splice intersections shall be overlaid with T-Joint covers or non-reinforced flashing

2. Probe all seams once the hot air welds have thoroughly cooled (approximately 30 minutes).
3. Repair all seam deficiencies the same day they are discovered.
4. Apply Cut Edge Sealant on all cut edges of reinforced membrane (where the scrim reinforcement is exposed) after seam probing is complete. Cut Edge Sealant is not required on vertical splices.

3.05 FLASHING

- A. Flashing of parapets, curbs, expansion joints and other parts of the roof must be performed using Fleeceback membrane or reinforced membrane. Non-reinforced membrane can be used for flashing pipe penetrations, Sealant Pockets, and scuppers, as well as inside and outside corners, when the use of pre-molded accessories is not feasible.
- B. Follow manufacturer's typical flashing procedures for all wall, curb, and penetration flashing including metal edging/coping and roof drain applications.

3.06 DAILY SEAL

- A. On phased roofing, when the completion of flashings and terminations is not achieved by the end of the work day, a daily seal must be performed to temporarily close the membrane to prevent water infiltration.
- B. Use adhesive or other similar material in accordance with the manufacturer's requirements.

3.07 CLEAN UP

- A. Perform daily clean up to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally acceptable manner.

- B. Prior to the manufacturer's inspection for warranty, the applicator must perform a pre-inspection to review all work and to verify all flashing has been completed as well as the application of all caulking.

END OF SPECIFICATION