2014 GOLDEN HAMMER AWARD

CASTRO ROOFING GOES BACK TO SCHOOL
IRVING ISD – LAMAR MIDDLE SCHOOL
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2014 NTRCA GOLDEN HAMMER AWARDS

☑️ OUTSTANDING COMMERCIAL ROOFING PROJECT

Contractor's Name: Castro Roofing
Address: 4854 Olson Drive, Dallas Texas 75227
Phone Number: 214-381-8108
Name of Project: Lamar Middle School
Project Owner: Irving ISD
Project Foreman: Marcos Perez
Project Consultant, engineer or architect: ARMKO Industries

list the NTRCA associate members involved:
Conner-legrand, Fastenal, Tru-Fast, ABC Supply, MHBT Whitaker Metal Decks, Owens Corning Superior Equip

Date of commencement: June 12, 2014
Date of completion: September 09, 2014

CASTRO ROOFING gets an A+
“The work was of very high quality and everybody performed their job professionally.”

Tim Green
RR0 – Building Envelope Consultant
The history of the Irving schools is fairly typical of that of most rural Texas towns. By the time that the city of Irving was incorporated in 1914, the town had about 300 people, a bank, three churches, a railroad line, a gas line and was part of an independent school district.

State representative E. C. Lively, who was an Irving resident, sponsored a bill which created the Irving Independent School District in the thirty-first Texas legislature, 1909. Governor T.M. Campbell signed the bill into law on April 23, 1909 and the District was officially created.
In 1909, when the first fall term began, 125 students enrolled. Most of these students had come to the Irving schools from the one-room community schools of Kit and Lively. The first Irving Independent School District building had two rooms and was erected on property donated by the founders of the town.

The building is often referred to as the "white building" because it was constructed of lumber and painted white. Four years later, the District erected a three-story red brick building. The new building was financed by the District's first bond election which totalled $13,000.

The next 10 years marked a dramatic increase in both the Irving population and the student body. In the fall of 1914, Irving increased the number of grades offered to 11. By 1916, the District had more than 1,500 students and 41 teachers and was in need of more buildings. A new Irving High School was constructed in 1919 at the current location of the Bowie Junior High School.

By 1953, there were five elementary schools and 10 schools were added: one high school, two junior high schools and eight more elementary schools.

Also during this time period, Irving High School moved to its present location.

A special mark of distinction was awarded to the District in 1978 when it became fully accredited by the Southern Association of Colleges and Schools.

Also, during this time period, Irving High School moved to its present location.

The next 20 years marked a dramatic increase in both the Irving population and the student body. In the fall of 1941, Irving increased the number of grades offered to 12. By 1946, the District had more than 1,500 students and 41 teachers and was in need of more buildings. A new Irving High School was constructed in 1919 at the current location of the Bowie Junior High School.

By 1953, there were five elementary schools and 10 schools were added: one high school, two junior high schools and eight more elementary schools.

Note: The information in this introduction was based largely upon the research done by Edwina Lynn Wilson in 1972 for her paper Growing Pains: The Irving Independent School District in 1948.
General Information

- Modified Bitumen Roofing
  - Tear-off roof down to either a Tectum or LWC deck
  - Mechanically attached Sopra G base sheet using base sheet fasteners or Twin Loc-Nails
  - Adhere 3.5" ISO, 1/8" per full tapered ISO, and 25/32" Wood fiber recovery board all in hot asphalt
  - Adhere Elastophene PS field base sheet in hot asphalt
  - Torch apply Elastophene Flam Gr 15 FR cap sheet with white granules
  - All new sheet-metal including fascia, expansion joint, gutter, counter-flashing & down spouts
  - Two areas redecked: about 1,500 sq ft. of new 22 GA B-Deck was installed prior to roof system
  - All condensate lines replaced
  - All gas & condensate lines raised to meet new insulation height
  - Interior renovations of multiple rooms
  - Demolition & redeck of 30 skylights
  - Interior renovation of old skylight configured to make a monolithic transition finish with rest of ceiling
Flashing and drain details

RISE WALL FLASHING AT BRICK DETAIL

PRIMARY ROOF DRAIN DETAIL
Challenges

ALERT!
National Weather Service Report...

Severe storms are predicted to develop in sections across North Texas June 13, 2012.
Isolated severe storms developed across northern sections of North Texas late in the afternoon on June 13, 2012.

The storms pummeled parts of Dallas, Collin, and Fannin counties with hail the size of baseballs (2.75”), oranges (3”), and softballs (4.25”). Numerous cars and houses were severely damaged by the very large hail. Early damage estimates suggest that this storm may cost $901 million, making it one of the costliest hail storms ever in Texas.

The Fannin County storm also produced a brief EF0 tornado and damaging straight line winds.

The tornado damage occurred one mile north of the city of Randolph. Damage was done to homes, barns and crops. The highest wind speeds were approximately 85 mph. Large trees were snapped in the area near CR 4145 and CR 4160.

Costliest Hail Storms in Texas
1. May 5, 1995 (Mayfest) - North Texas, $1.62 billion
2. April 18, 1991 - Fort Worth and Waco, $1.11 billion
3. April 5, 2003 - North Texas, $1.13 billion
4. June 13, 2012 - North Texas, estimated $901 million
5. April 18, 1995 - DFW Airport, $654 million
6. May 8, 1981 - Palo Pinto and Dallas, $486 million

National Weather Service
The STORMHAWKS are a special storm unit created by Castro Roofing to service clients who have experienced storm or weather related damage.

With STORMHAWKS, you have the industry's top severe weather damage experts ready to take action. Today's weather patterns create strong storms that are becoming stronger, more destructive, and more frequent than ever before. One thing that you must understand is that storm damage is different than ordinary roofing problems.

Most roofing contractors and insurance adjusters use standard assessments that have become totally outdated and invalid. This creates a huge challenge for the majority of roofing companies that do not possess the skilled personnel or the high-end instruments necessary to find hidden roof damage.

These special situations require special teams, with a different level of knowledge, background, skill, education, tools, and diagnostic instruments. These special situations require STORMHAWKS.
After severe storms devastated parts of North Texas on June 13, 2012, Irving ISD called Castro Roofing to provide emergency repairs through their STORMHAWKS division.

Since Castro Roofing had previously worked with the school district on other projects, they trusted in the STORMHAWKS to find hidden damage.

Arriving shortly after the storms hit, the first crew of Unit responders noticed hidden damage to the roofing system at Lamar Middle School.

On the second day, three service crews and one production crew totaling twenty-five unit responders were making emergency repairs and providing forensic analytics to the adjuster on site.

By the time it was all said and done, the STORMHAWKS provided much needed assistance to the challenges the school district faced regarding storm-related damage.

All in all, Castro Roofing has done over 18 projects for Irving ISD.

Facilities Manager Kelly Horn was so proud of one of the projects the STORMHAWKS and Castro Roofing had completed that one adjuster was practically forced to see the “beautiful roof” that had been installed by Castro Roofing.
Uniqueness

- Skylights No More
- Trash and More Trash
- Bad News with Bad Deck
Thirty skylights had to be removed, roof substrate re-decked to match existing Tectum I or LWC decks over the existing gymnasium and locker rooms.

The gymnasium skylights involved adding steel at the center line of skylights to support the Tectum panels. This work could only be reached using scissor lifts inside the gymnasium due to the ceiling height.

The locker room skylights involved not only the skylight demolition and re-deck but also interior renovation.

These 14 skylights had interior framing, drywall, tape, bed and texture added for a seamless transition to existing interior system composed of a cement drop ceiling.
Old skylights
No more skylights
Multiple areas had existing full tapered systems that were as much as 10” thick and in addition all areas went back with a new tapered system and multiple flat layers of insulation.

All this created an extraordinary amount of debris per square.

In all, twenty six 30 yd. dumpsters were used to legally remove the roofing insulation, renovations, redeck, and skylight trash off-site.
An entire roof area with poured light weight insulating concrete over corrugated metal panels on rafters was completely deteriorated and was therefore not suitable as a substrate.

Yes, a pull test was performed on this 1,500 sq. ft. area prior to demolition using 17” base sheet fasteners with the assistance of Tru-fast and passed with 40 lb. plus readings per fastener.

It was decided to re-deck this entire area adjacent to the gymnasium with 22 ga. steel painted B deck.

Further, the need arose, because of the deck demolition, to remove and replace the drop ceiling in two bathrooms and two other rooms.
Safety
Our work at Lamar Middle School posed safety challenges that were unique, as in any job. Through administrative and PPE controls many of the dangers we faced were minimized. A three-tier safety program ensured that we were able to have a safe and effective work environment.

1. The foremen are our primary tools in a safe working condition, with training, experience, and empowerment they were successful in finding any safety deficiencies that came up.

2. The Safety Manager performed on site inspections to ensure that our workers, as well as any pedestrians, were protected from dangers.

3. The Outside Safety consultants also performed on site inspections with recommendations on fixing any deficiencies found.

And all three report directly to the president.

With a safety first attitude, we take pride in the work our craftsmen do in a safe and efficient manner.

SAFETY - First and Foremost!

To Whom It May Concern:

I would like to bring light Castro Roofing’s commitment to safety excellence on the Lamar Middle School Project. Through creative safety innovations and site specific implementation Castro achieved all the safety goals set for this project on the before it commenced. Aside from achieving a no injury status, all the preliminary planning met and exceeded minimum standards, achieving a no injury status at the preliminary planning meeting and extended minimum standards.

The project unfolded like clockwork with quality always in mind but never at the expense of the safe work practices already demonstrated by competent Castro personnel. Needless to say both safety and work were achieved. It is with this confidence that I recommend Castro Roofing for your award. Thank you for time in reading this nomination.

Sincerely,

Luis Moreno
ESC Safety Consultants

1307 North Glenville Drive
Richardson, TX 75081
Safety Reports

Nothing but the facts...

- ZERO serious accidents
- OVER 80 project safety meetings
- On-staff Safety Director
  - Certified - OSHA 500
- ALL Superintendents
  - OSHA 30 HR
- ALL Foremen and Leadmen
  - OSHA 10 HR
The Castro Roofing team continues to churn out awesome reference letters and client referrals that prove that customer satisfaction is our number one goal.

Along with our many awards and accolades, these letters continue to build a solid case that confirms that we are the best roofing company in the industry.

Please enjoy the following "RAVING FAN" letters for the Lamar Middle School Project.
December 5, 2014

Mr. Juan Rodriguez
Carson Roofing
4804 Jupiter Drive
Dallas, TX 75227

Re: LBHS Middle School – Irving, TX

Dear Mr. Rodriguez,

I am writing to express my gratitude for a job well done on the above referenced project. The combination of great craftsmanship, excellent teamwork, and on-time delivery has resulted in a project that will be enjoyed for many years to come.

The design was challenging due to the special architectural demands and the need to work with a rigid schedule. The project was completed on time and within budget. The quality of the work, as well as the professionalism of your team, is greatly appreciated.

I would like to extend my sincere appreciation for your cooperation and attention to detail. Your commitment to excellence is a testament to the high standards of Carson Roofing.

Thank you again for your hard work and dedication. I look forward to the opportunity to work with you and Carson Roofing on future projects.

Sincerely,

Tim Green
Buildng Envelope Consultant
Tim Green, KRO

Enclosures
We are very proud of the Lamar Middle School Project and all the hard work that everyone involved performed. Please take a look at our project photos.
Member Involvement

Castro Roofing would like to thank... Conner-legrand, Fastenal, Tru-Fast, ABC Supply, MHBT, Whitaker Metal Decks, Owens Corning and Superior Equipment for their continued support!