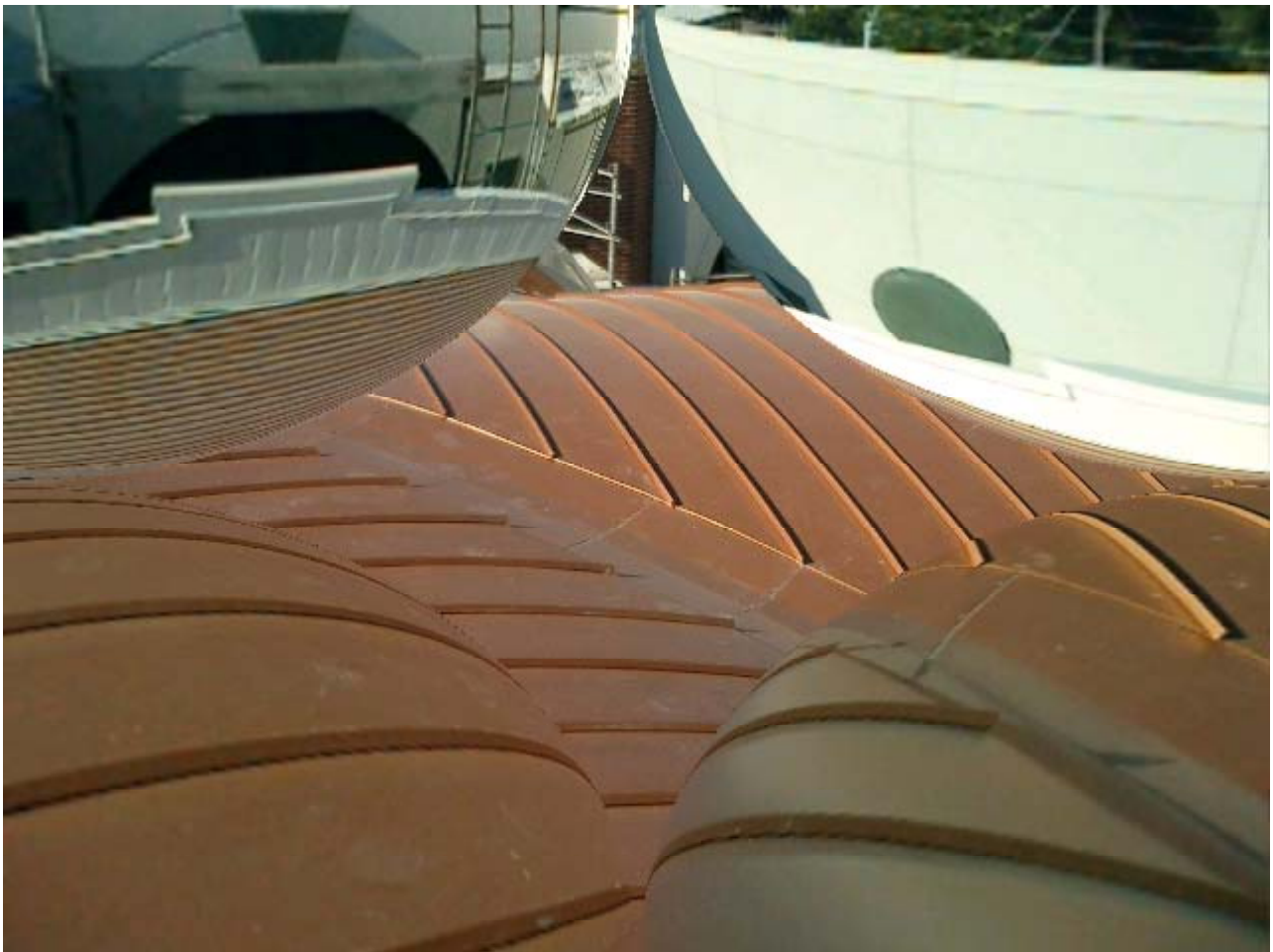




CASTRO
ROOFING OF TEXAS

**JPS HEALTH CENTER FOR WOMEN
BUILDING - B**



2004 GOLDEN HAMMER AWARDS



JPS HEALTH CENTER FOR WOMEN BUILDING B

TABLE OF CONTENTS

Project: JPS Health for Women

- 1. Entry Form**
- 2. Description**
- 3. Narrative**
- 4. Safety**
- 5. References**
- 6. Miscellaneous**
- 7. Members**

Metal Roof Valley Layout Pattern





ENTRY FORM



“Valleys”

4854 Olson Dr · Dallas TX 75227 · 214.381.8108 · Fax 381.8109 · 800.759.1879

www.castroroofing.com



DESCRIPTION



Overview of BUR System



NARRATIVE



Dusk



NARRATIVE



THE HISTORY

In October 1877, future Fort Worth Mayor John Peter Smith deeded five acres of land at what is now 1500 South Main Street to provide a place where individuals from Fort Worth and Tarrant County "could have the best of medical care." It would be many years before his vision for a facility on that location would be realized, but not so long before the first public hospital for the community was established.

City County Hospital, the predecessor to today's John Peter Smith Hospital, opened at Fourth and Jones in downtown Fort Worth in 1906. Construction on the land donated by John Peter Smith began in 1938 and the downtown hospital moved to its new 166 bed building in 1939. The hospital's name was changed to honor the site donor in 1954.

In 1959, voters in Tarrant County approved the creation of the Tarrant County Hospital District to provide ongoing funding to support the hospital.

Since that time the facilities at 1500 South Main have grown to a hospital licensed for 429 beds along with a freestanding outpatient care center and a dedicated facility for psychiatric services.

In addition, what started as just a hospital has now grown into a countywide network of health care services operated as the JPS Health Network.

Castro Roofing of Texas, L.P. is proud to be a small part in the latest history of the JPS Health Center for Women facility construction project.



THE CHALLENGE

The JPS Health Center for Women new construction was a challenging project, not only to estimate but also to execute. From BUR gravel roof system to the very detail curved metal roofing system, this project required creative solutions from planning through completion.

A large interest is always shown in a high profile project such as JPS Health Center for Women. As the bid date approached we analyzed the various phases and the requirements set forth in the Bid Documents to properly clarify details in the scope of work to our production team to insure proper quotes. We reviewed the scope of work to analyze all the client's special requirements such as a curved standing seam metal roof, metal wall panel, A-typical insurance requirements, site restrictions, construction safety issues, environmental concerns and public safety interest. Out of the several bids that were submitted, Castro Roofing of Texas was considered the only responsive contractor and awarded the project.

We knew from the beginning this project would be one of the most challenging new construction roofing projects to date. Due to the high profile of this project, the owner utilized several entities, including internal and external property management, in addition to an external roofing consultants to co-manage the construction.

SUBCONTRACTOR COORDINATION

Due to the job's multi-levels and tight schedule, there was a need for coordination between the numerous subcontractors. At times it was necessary for them to work over the newly finished roof, for which Castro Roofing provided insulation to protect the new roof.

The penthouse that now houses mechanical equipment was delayed in arriving. The problem is that the penthouse is almost in the middle of the building and since this equipment did not arrive on time the deck to the penthouse could not be



completed. Therefore, through temporary tie-ins, this area in the middle of the building was by-passed and later finished–out ounce all subs were complete with their scope of work. This allowed other subs in the interior of the building to continue on working through the delay and therefore not impact the schedule.

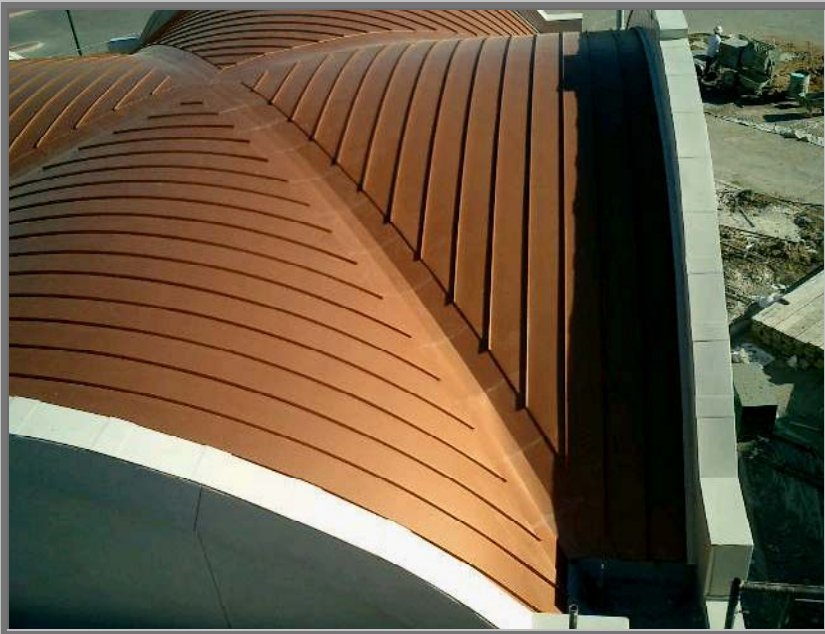
TECHNICAL CHALLENGES

Coming into the project, we knew that one of the most challenging areas was going to be the four-sided barrel roof. The architect expressed his concerns due to the intricate and complex decking design, but nothing excites the design and production team of Castro Roofing as an opportunity to rise to a challenge. And this was a challenge.

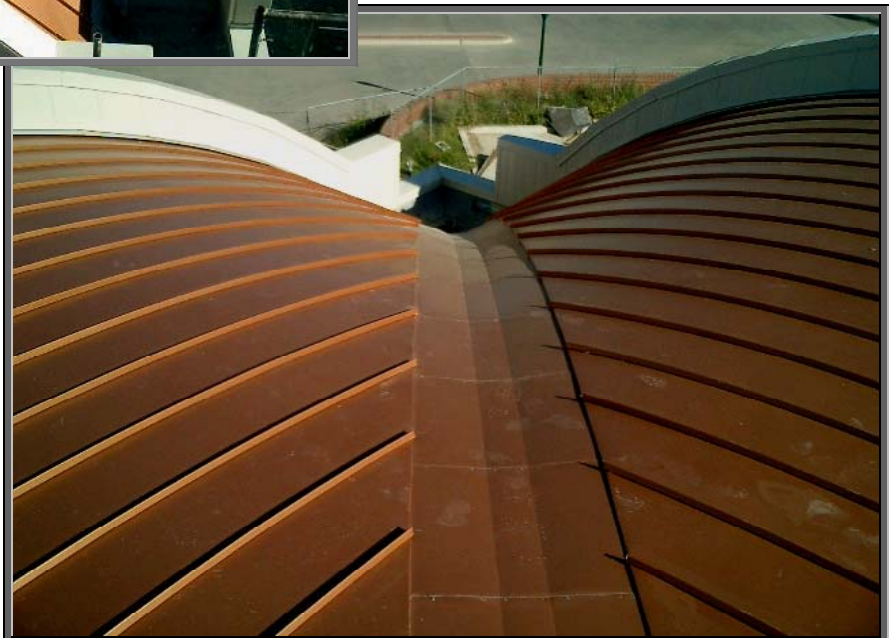
Due to the imperfections in the installation of the decking, the architect’s design vision would not be realized. After a consultation between the architect, general and subcontractors, it was determined that the only feasible thing, considering the schedule restraints, and the simple fact that the structure was welded, it would not be feasible for the deck to be replaced. Therefore the only solution was that Castro Roofing would have to improvise. The production team was pulled together and took the very difficult task of correcting this problem but managed to “squeeze blood from a turnip”. We took a crooked building and made it straight.



**Installation of Curved Standing
Seam Metal Roof**



Curved Metal Roof Valley





SAFETY

SAFETY: THERE IS NO COMPROMISE!

When it comes to safety at Castro Roofing of Texas, L.P. there is no compromise!

Because our crews consist of 100% Hispanic workers, we provide for better comprehension all “Tool Box Talks” in Spanish. Below is a sample translation of a few accident prevention talks:

- Scaffolding
- Hand Tools
- Flammable Liquids and Combustibles
- Eye Protection
- Protective Wear
(Gloves, Clothes and Shoes)
- Hard Hat
- Fire Safety Watch
- Operating the Kettle
- Back Injury Prevention
- Heat Exhaustion
- Practical Jokes on the Job Site

**Hard Hat and Protective Clothing
Use Per OSHA Regulations**



NO INJURIES!

While construction was underway, Castro Roofing of Texas, L.P.’s safety personnel kept a close eye over the entire project team. Because Castro’s team was working over barrel standing seam step-slope roof and low slope-roof hot applied BUR constant safety meetings and inspections were performed.

Castro Roofing of Texas, L.P. is extremely proud to announce that no accidents and no lost days were experienced on the JPS Health Center for Women project!



**PREPARED BY THE SAFETY AND HEALTH COMMITTEE
OF THE ASSOCIATED GENERAL CONTRACTORS**

*Some of the hazardous substances commonly found on construction projects**

Acetone	Lead
Acetylene gas	Lime (calcium oxide)
Adhesives	Limestone
Aluminum etching agent	Lubricating oils
Ammonia	Lye (sodium hydroxide, potassium hydroxide)
Anti-freeze	Magnesium
Arsenic Compounds	Metals (aluminum, nickel, copper, zinc, cadmium, iron, etc.)
Asbestos	Methanol (methyl alcohol)
Asphalt (Petroleum) fumes	Methyl ethyl ketone (2-butanone)
Benzene (and derivatives)	Motor oil additives
Bleaching agents	Muriatic acid (hydrochloric acid)
Carbon black	Naptha (coal tar)
Carbon monoxide (in cylinders)	Nitroglycerin
Caulking sealant agents	Oxalic acid
Caustic soda (sodium hydroxide)	Ozone
Chromate salts	Paint remover
Chromium	Paint stripper
Cleaners	Paint/lacquers
Cleaning agents	Particle board
Coal tar pitch	Pentachlorophenol
Coatings	Photographic developers and fixers
Cobalt	Photogravure ink (copy machine)
Concrete curing compounds	Plastics
Cresol	Polishes for metal floors
Cutting oil (oil mist)	Propanol
De-emulsifier for oil	Putty
Diesel gas, diesel oil	Resins, epoxy/synthetics
Drywall	Sealers
Dusts (brick, cement block)	Shellac
Enamel	Solder, flux (zinc chloride, fluorides, etc.)
Etching agents	Solder, soft (lead, tin)
Ethyl alcohol	Solvents
Fiberglass, mineral wool	Sulfuric acid
Foam insulation	Thinner, paint/lacquer
Freon 20, R20 (and others)	Tin
Gasoline (petrol, ethyl)	Transite
Glues	Turpentine, gum spirit, oil of turpentine
Graphite	Varnishes
Greases	Waterproofing agents
Helium (in cylinders)	Waxes
Hydraulic brake fluid	Welding rods
Hydrochloric acid	Wood alcohol (methanol)
Hydrogen (in cylinders)	Wood preservative
Inks	Xylene
Insulations	Zinc
Iron	
Kerosene	

* No representation is made that these are the only hazardous substances found on construction projects for which a contractor must have MSDS's, initiate training, etc.



Pláticas de Herramientas

NATIONAL ROOFING CONTRACTORS ASSOCIATION • CNA COMMERCIAL INSURANCE

INDICE

Seguridad de Equipo

1. Montacargas
2. Seguridad de Escaleras de Mano
3. Escobas de Motor
4. Cortadores de Techos
5. Andamios
6. Herramientas, Impulsadas por Motores de Gasolina y Eléctricas
7. Herramientas de Mano
8. Herramientas, Neumáticas y Accionadas por Pólvora
9. Seguridad de Grúa Montada en Camión

Protección Contra Caídas

10. Sistema Personal de Arresto de Caídas
11. Opción de Protección de Caídas Residenciales
12. Sistema de Vigilancia de Seguridad
13. Claraboyas y Aberturas en Techos
14. Sistemas de Líneas de Advertencia

Prevención de Incendios

15. Seguridad Eléctrica
16. Elegir el Extintor Correcto Contra Incendios
17. Líquidos Inflamables y Combustibles
18. Seguridad de Soplete Oxígeno-Acetileno
19. Seguridad Con Propano
20. Sistemas Aplicados Con Soplete

Comunicación de Peligros

21. Comunicación de Peligros
22. Hoja de Datos de Seguridad de Materiales (MSDS)

Seguridad de Asfalto Caliente

23. Quemaduras de Asfalto Caliente o Betún de Alquitrán de Hulla
24. Protección de Asfalto Caliente
25. Seguridad de Asfalto Caliente
26. Tubo Caliente, El
27. Operaciones de Caldera - Preparación e Inicio
28. Operaciones de Caldera - Cargar, Prevenir Incendios y Apagar
29. "Luggers" y Carritos de Trapear

Asuntos Diversos de Limpieza

30. Asuntos Diversos de Limpieza
31. Remoción de Basura del Techo

Equipo de Protección Personal

32. Protección Ocular
33. Guantes, Ropa y Zapatos
34. Cascos de Seguridad
35. Protección de Audición
36. Equipo de Protección Personal

Seguridad Personal

37. Prevención de Lesiones a la Espalda
38. Responsabilidades del Empleado
39. Fatiga Por Calor
40. Payasadas
41. Seguridad Fuera del Trabajo
42. Seguridad Con Chapa de Metal
43. Uso de Solventes

Seguridad Vehicular

44. Manejar a la Defensiva
45. Cinturones de Seguridad
46. Cargar Camiones
47. Mantenimiento de Vehículos

Tiempo

48. Prevención de Daños por Agua
49. Tiempo - Lesiones Personales

Otro

50. Investigación de Accidentes
51. Cómo Enfrentar una Inspección de OSHA
52. Protección del Público



REFERENCES



Different Roof Elevations

4854 Olson Dr · Dallas TX 75227 · 214.381.8108 · Fax 381.8109 · 800.759.1879
www.castroroofing.com



MISCELLANEOUS



Tile Roofs, Modified Roof System & Dome Roof

4854 Olson Dr • Dallas TX 75227 • 214.381.8108 • Fax 381.8109 • 800.759.1879

www.castroroofing.com



PROJECT PHOTOS JPS HOSPITAL

THE GOLDEN HAMMER AWARDS



Existing condition: Metal deck was installed improperly causing additional difficulty to install the curved metal roof.



Progress: Clay tile bell copings to be removed and reinstall to permit membrane to over lap parapet wall.

4854 Olson Dr · Dallas TX 75227 · 214.381.8108 · Fax 381.8109 · 800.759.1879

www.castroroofing.com



Progress: Curved metal roof termination against vertical wall surface.



Installed System: Clay tile coping removed to permit ACM removal and new flashing membrane to over lap parapet wall..



Installed System: Overview photo of valley at curved metal roof.



Progress: Nearly completed curved metal roof.



Progress: Valley layout pattern at valley.



Progress: Safety lines and clay tile roof and modified membrane



Progress: Layout of curbed metal valley with ice and watershield.



Progress: Gravel held back around walkpads until overhead work is done.



Progress: Overview of BUR system.



Progress: Overview of BUR system.



Progress: Walk pads at BUR.



Progress: Overview of BUR.





Progress: Walk pads at BUR.



Progress: Walk pads at BUR



Progress: Overview of BUR.



Progress: Unfinished metal coping.



Progress: Multiple roof level and different roof systems.



Progress: Overview of BUR system.



4854 Olson Dr · Dallas TX 75227 · 214.381.8108 · Fax 381.8109 · 800.759.1879

www.castroroofting.com



MEMBERS



“Twilight”

4854 Olson Dr • Dallas TX 75227 • 214.381.8108 • Fax 381.8109 • 800.759.1879

www.castroroofing.com



CASTRO
ROOFING OF TEXAS

NTRCA MEMBER INVOLVEMENT

THE GOLDEN HAMMER AWARDS

This project was largely self-performed by Castro Roofing of Texas, L.P. with its own forces.

Under Castro Roofing of Texas, L.P. contractor's scope of work, the following NTRCA members contributed to the success of this project:

- **Roof Tech**
- **Johns Manville**
- **Dallas/Fort Worth
Roofing Supply**
- **Keystone Insurance
Southwest**
- **AEP-SPAN**

Cleanliness Is Next To Godliness

