

**NOTICE OF WORK MEETING OF THE
CITY COUNCIL OF THE CITY OF ST. GEORGE,
WASHINGTON COUNTY, UTAH**

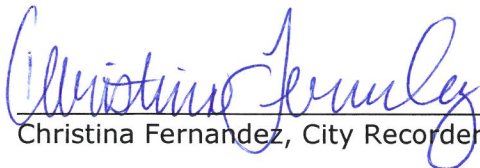
Public Notice

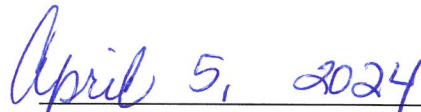
Public notice is hereby given that the City Council of the City of St. George, Washington County, Utah, will hold a work meeting in the Administrative Conference Room at the St. George City Offices located at 175 East 200 North, St. George, Utah, on Thursday, April 11, 2024 commencing at 4:00 p.m.

The agenda for the meeting is as follows:

Call to Order
Invocation
Flag Salute

- 1. Update regarding the Cox Auditorium.**
- 2. Update regarding the Sunbowl concept.**
- 3. Follow up discussion regarding a possible golf cart ordinance.**
- 4. Discussion regarding cemeteries, including reclaimed lots, fees, and other items.**
- 5. Reports and updates from the Mayor, Councilmembers, City Manager, and City staff.**
- 6. Request a closed meeting to discuss litigation, security, property acquisition or sale, or the character and professional competence or physical or mental health of an individual.**


Christina Fernandez, City Recorder


Date

REASONABLE ACCOMMODATION: The City of St. George will make efforts to provide reasonable accommodations to disabled members of the public in accessing City programs. Please contact the Human Resources office at 435-627-4674, at least 24 hours in advance if you have special needs.

A JEWEL IN THE DESERT

C O X A U D I T O R I U M
R E N O V A T I O N P R O J E C T



SOUTHERN UTAH PERFORMING ARTS



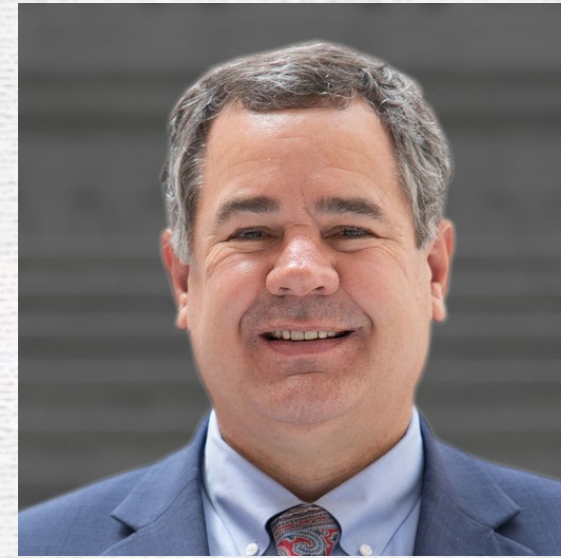
V. Lowry Snow
SUPA Foundation Board Chair



Alyce Stevens Gardner
Southwest Symphony Board Chair



Geri Rhodes
Heritage Choir President



Jon Pike
Utah Insurance Commissioner



Sue Cox
Cox Family Foundation



Sheryl Snow
SUPA Foundation Secretary



Lucas Darger
SWS Conductor & Music Director



JJ Abernathy
Editor, St George City Lifestyle



Brad Buhanan
Tech Ridge Dir. Comm. Engagement



Josh Savage
Savage, Esplin, Radmall

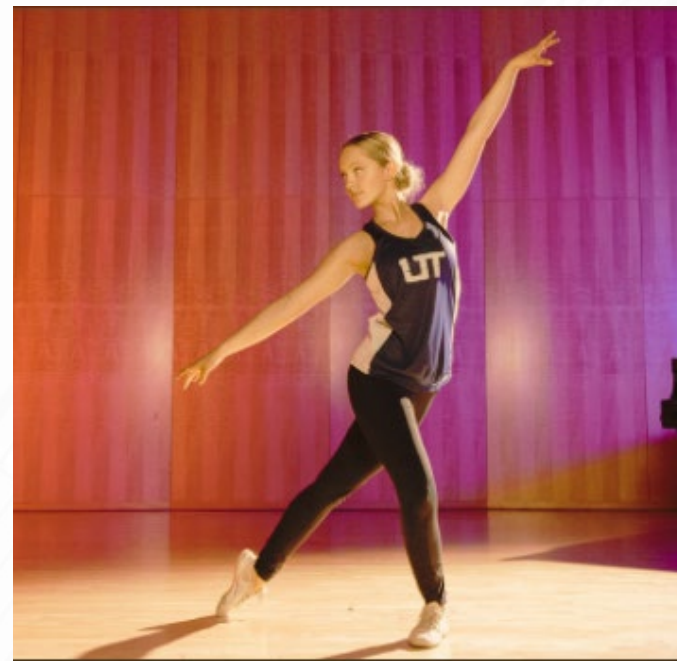
FOUNDATION
DIRECTORS

A UNITED PARTNERSHIP: Community + University

 SOUTHWEST
SYMPHONY

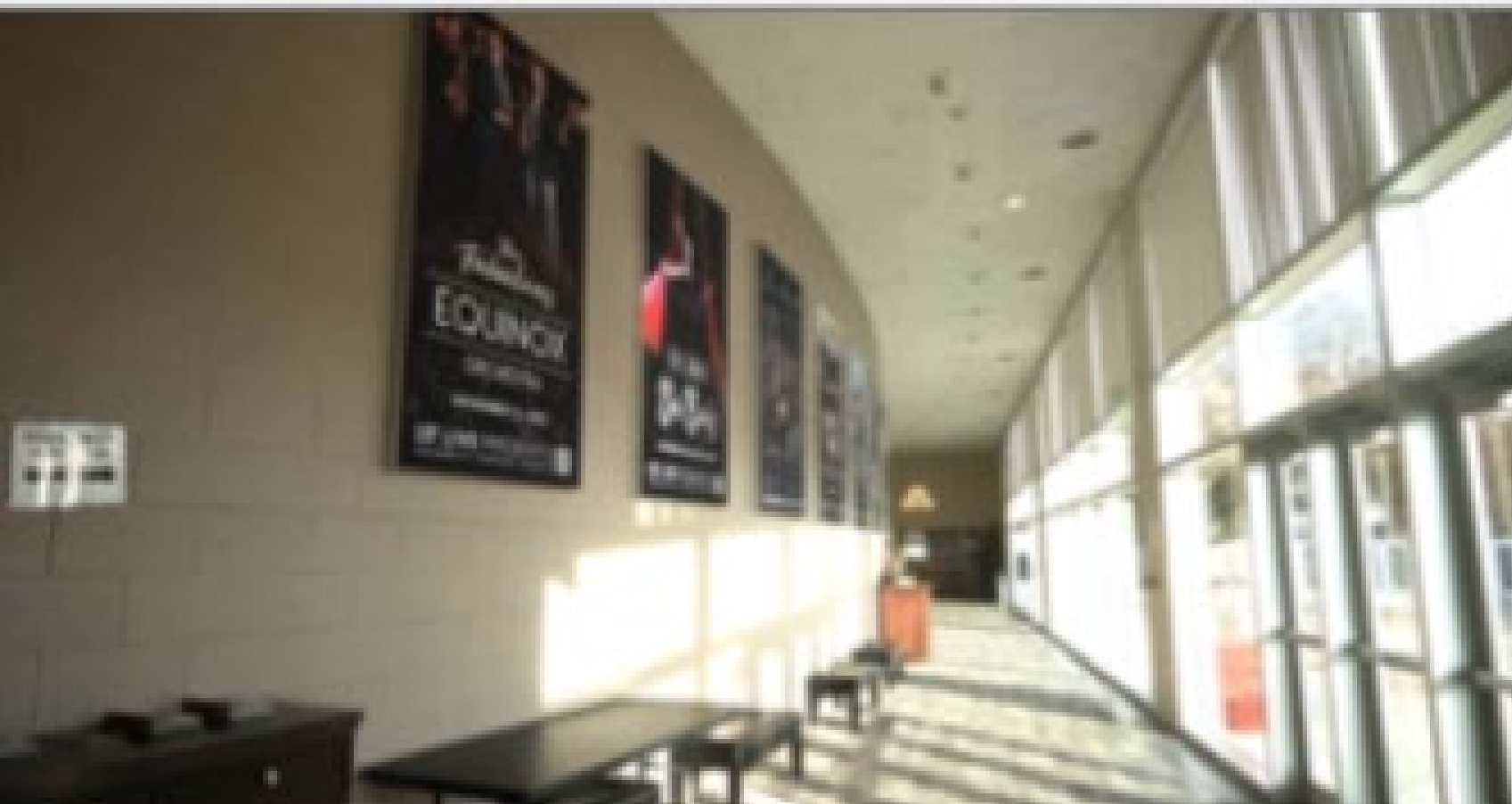
 UTAH TECH
UNIVERSITY™

 SOUTHERN UTAH
HERITAGE CHOIR





CURRENT FACILITY

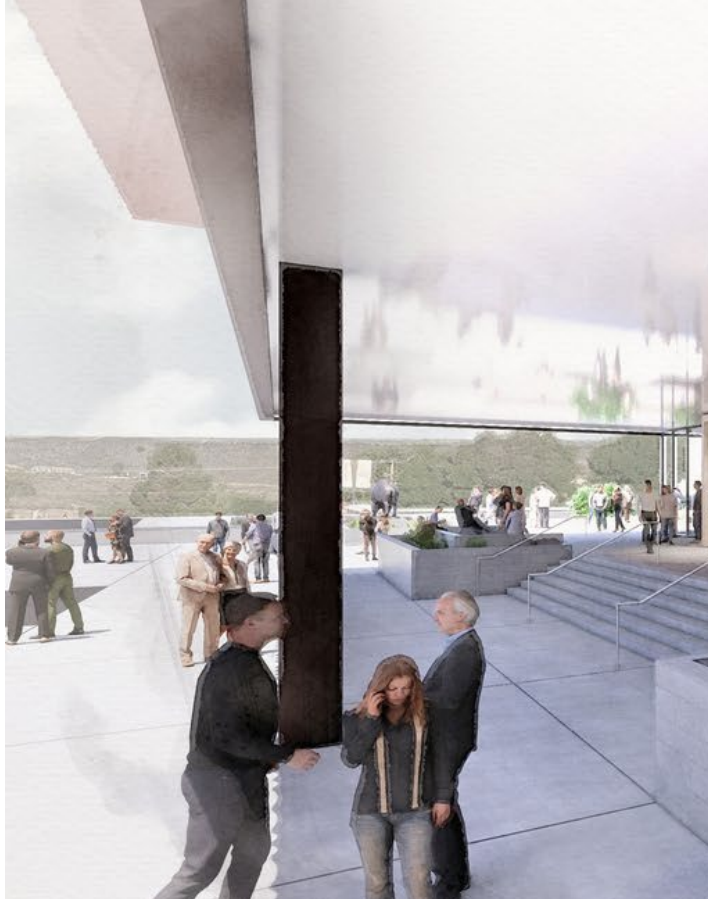






- A Center for Artistic Excellence
- Multi - Purpose, Adaptable Event & Rehearsal Spaces
- Expanded Lobby & Courtyard
- Home of Southwest Symphony, Heritage Choir on Exterior

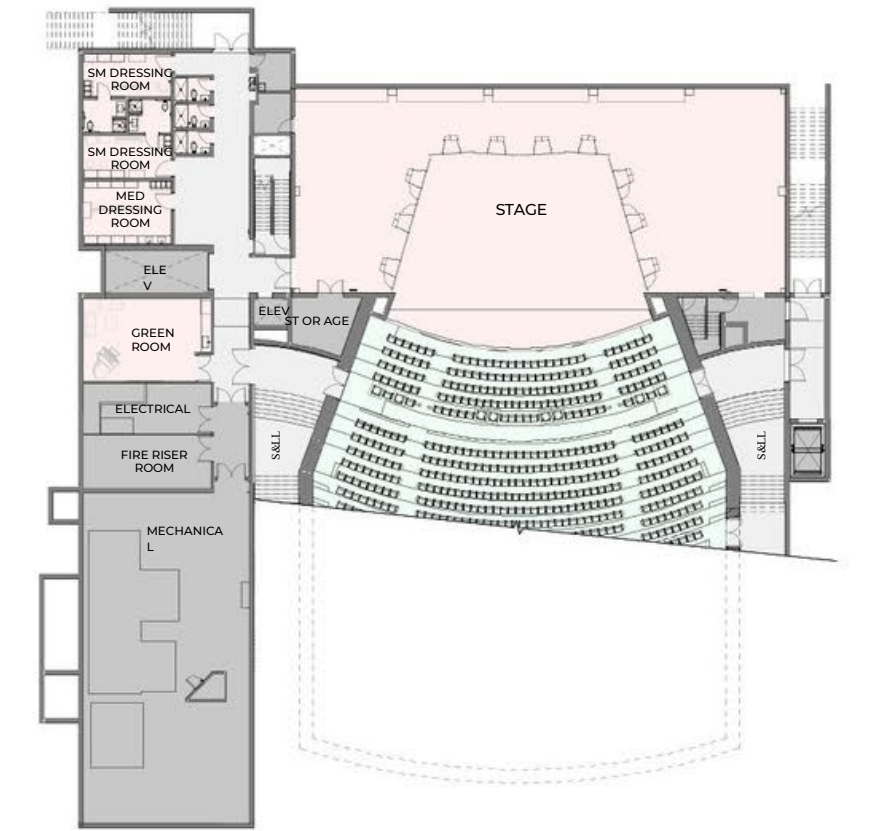
Exterior Concept



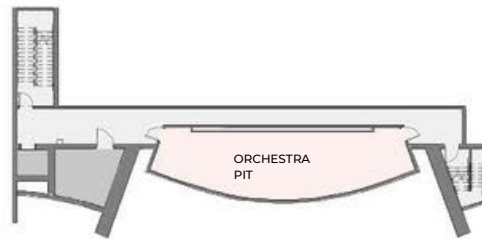
- Renovated, Modern, Adaptable (approx. 1250+ Seats)
- State-of-the-Art Acoustics and Technical Systems
- Added Balcony, Aisles Down the Center
- Expanded Box Office, Restrooms, Concessions & Elevator
- Updated Green rooms, storage

Interior Concept

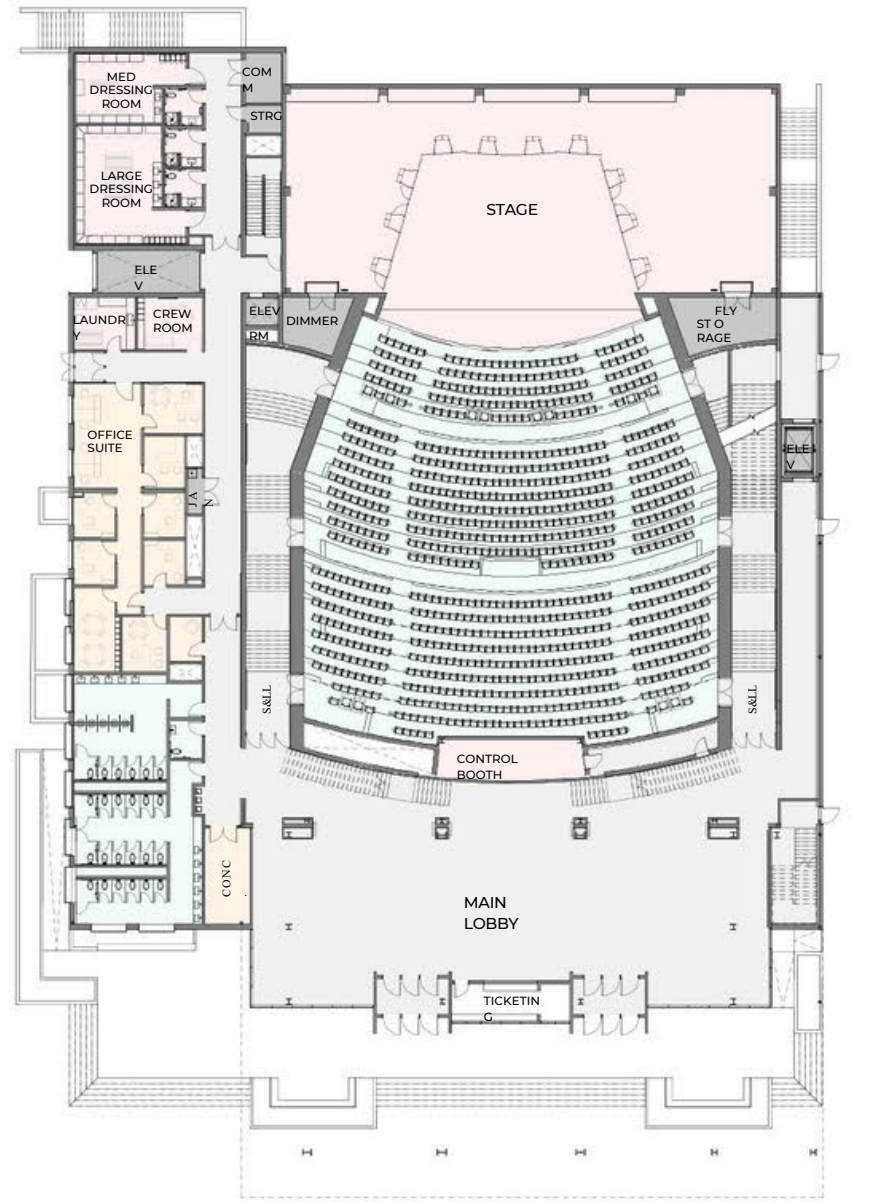




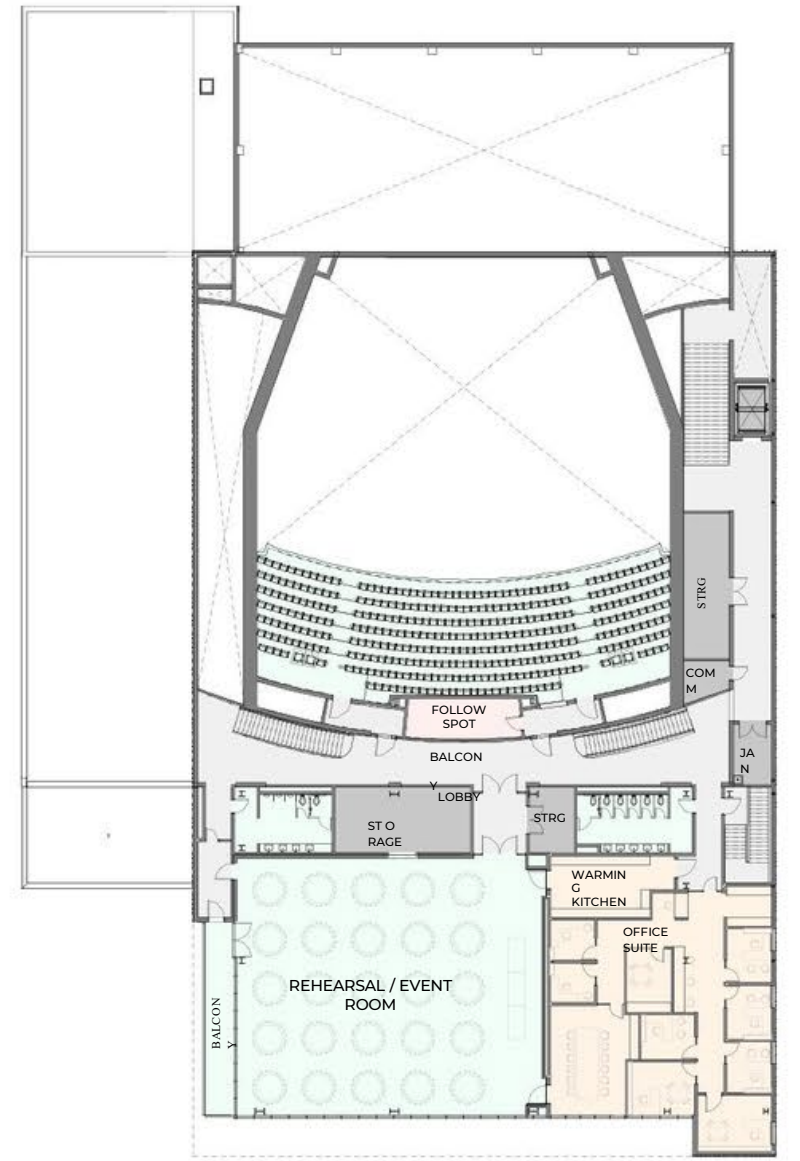
2 STAGE LEVEL ANNOTATED PLAN -BASE
DESIGN 1" = 20'-0"



3 ORCHESTRA PIT LEVEL ANNOTATED PLAN -BASE
DESIGN 1" = 20'-0"



1 MAIN LEVEL ANNOTATED PLAN -ADD ALTERNATE
DESIGN 1" = 20'-0"



4 BALCONY LEVEL ANNOTATED PLAN -ADD
ALTERNATE 1" = 20'-0"

COX PERFORMING ARTS CENTER ADDITION AND REMODEL FLOOR PLANS

DSK-05 2024.03.04

23-

12

SPARANO+MOONEY
ARCHITECTURE
57 WEST 2100 SOUTH
SALT LAKE CITY, UT 84115
www.sparanomooney.com
TEL: 801.746.0234

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Thank you!

Utah State Legislature for Appropriating

\$28 MILLION

In the 2023 General Session

To Renovate the Cox Auditorium



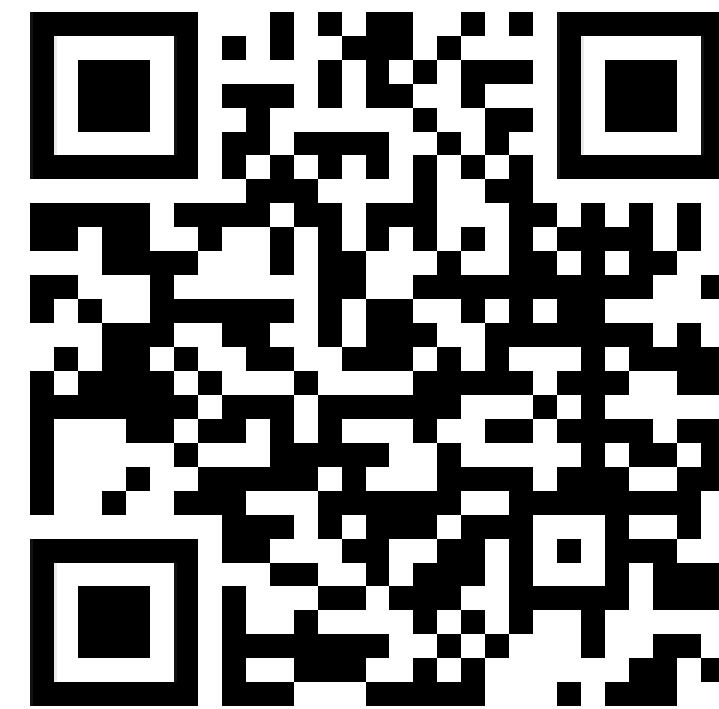
STATE OF UTAH
BUILDING NAMING RIGHTS
WASHINGTON COUNTY
CITIES
FOUNDATIONS
PRIVATE CITIZENS

\$28 MILLION
\$5 MILLION
\$1.3 MILLION
+
\$2.7 MILLION

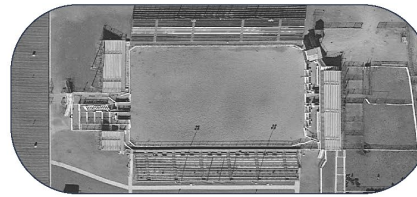
\$37
MILLION

FUNDING PLAN: A UNITED EFFORT

JOIN US!



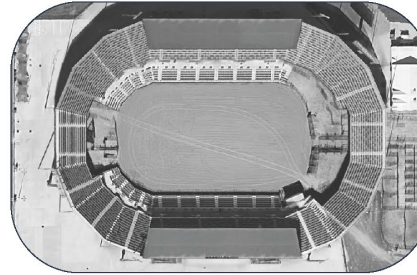
203' x 130'



Oakley

6000 Seats

250' x 150'



Salt Lake

10,240 Seats

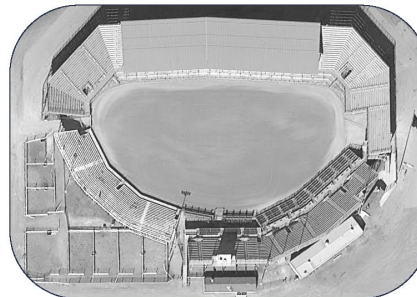
280' x 150'



Spanish Fork

8,400 Seats

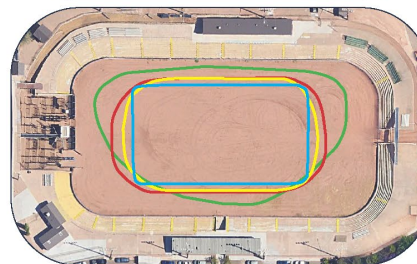
320' x 175'



Nephi

10,700 Seats

400' x 200'



St. George

6000 Seats



SUNBOWL
vs other facilities

0000 - Sun Bowl Bleachers

City of St. George


3/1/2022



DIV	DESCRIPTION	Piers	All new Concrete
	DIVISION 01 GC's, Testing, Permits, Insurance		
00-10 00	General Conditions	\$ 101,178.91	\$ 101,152.16
01-41 00	Building Permit and City Fees	\$ -	-
01-45 00	Special Inspector (Materials Testing and Inspections)	\$ 10,000.00	\$ 10,000.00
01-78 41	Builders Risk Insurance	\$ 4,895.13	\$ 4,895.13
	DIVISION 02 Existing Conditions		
02-21 00	Surveying	\$ 10,500.00	\$ 10,500.00
02-40 00	Demolition	\$ 145,000.00	\$ 75,000.00
-	DIVISION 03 Concrete		
03-10 00	Concrete	\$ 793,000.00	\$ 349,914.00
03-20 00	Helical Piers	\$ -	\$ 193,050.00
-	DIVISION 05 Metals		
05-12 00	Structural Steel Ballards, Trash gates, Awning	\$ 4,500.00	\$ 4,500.00
-	DIVISION 06 Wood, Plastics & Composites		
06-10 01	Rough Hardware	\$ 4,500.00	\$ 4,500.00
-	DIVISION 07 Thermal & Moisture Protection		
07-90 00	Caulking and Sealants	\$ 6,500.00	\$ 6,500.00
-	DIVISION 09 Finishes		
09-90 00	Painting	\$ 15,000.00	\$ 15,000.00
-	DIVISION 10 Specialties		
10-14 00	Signage Interior Only	\$ 3,500.00	\$ 3,500.00
-	DIVISION 12 Furnishings		
12-60 00	Seating Systems Bleachers	\$ 1,675,548.00	\$ 1,675,548.00
-	DIVISION 31 Earthwork		
31-00 00	Earthwork	\$ 250,000.00	\$ 45,000.00
-	DIVISION 32 Exterior Improvements		
32-31 00	Fences & Gates	\$ 12,000.00	\$ 12,000.00
32-80 00	Landscaping & Irrigation (relocate Existing)	\$ 22,500.00	\$ 22,500.00
-	Architect And Engineering Fees	\$ -	
01-80 50	Architect And Engineering Fees	\$ 25,000.00	\$ 25,000.00
	SUBTOTAL	\$ 3,083,622.04	\$ 2,558,559.29
90-50 00	PROFIT & OVERHEAD	\$ 185,017.00	\$ 153,513.56
90-10 00	CONTINGENCY		
	NET TOTAL	\$ 3,268,639.04	\$ 2,712,072.85

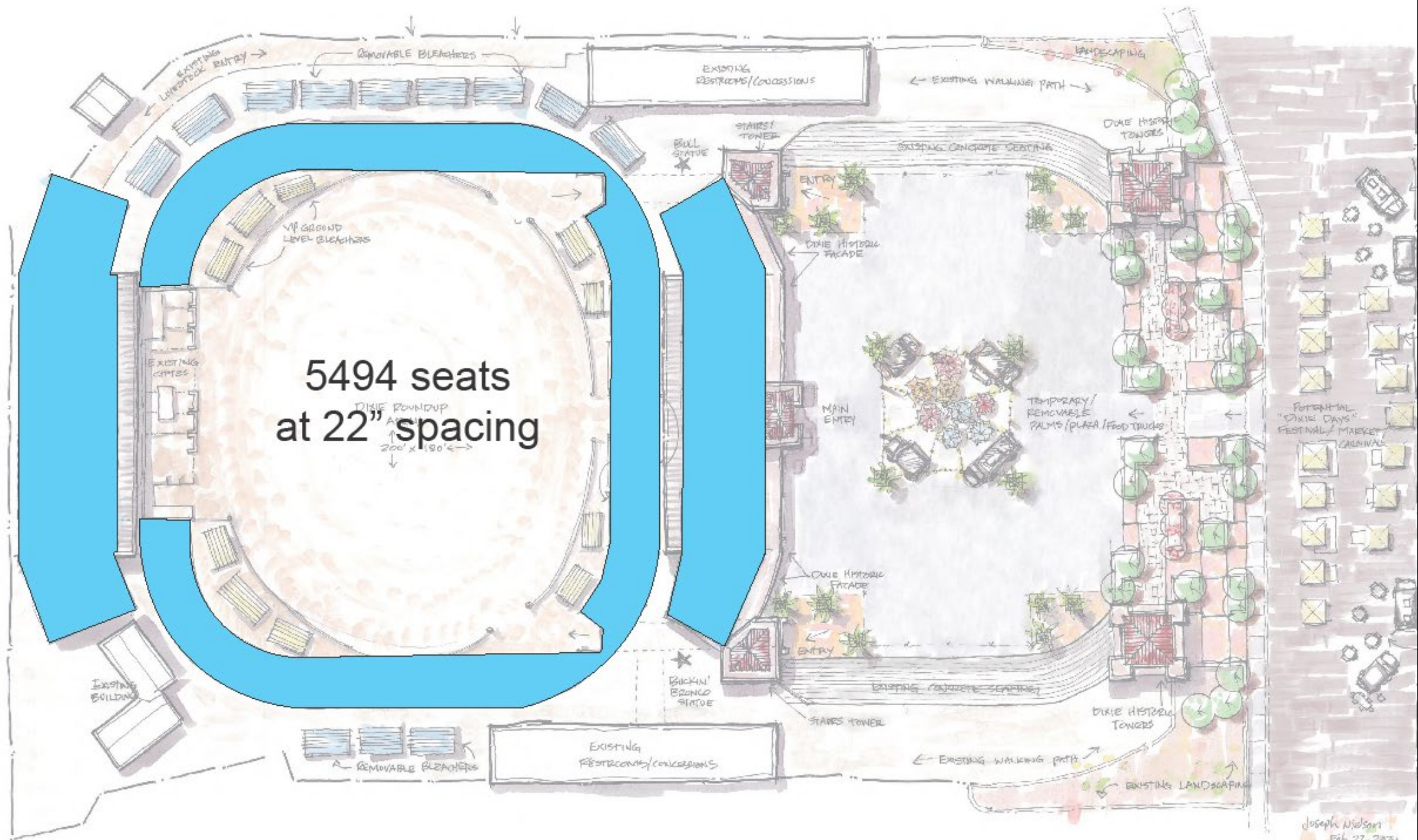




An aerial photograph of a sports field, likely a soccer or football field, with a yellow rectangular area outlined around the perimeter, indicating seating. The field is surrounded by a concrete track and various structures, including a large building on the left and a parking lot at the bottom. The text "5,026 seats at 22" spacing" is overlaid on the yellow area.

5,026 seats
at 22" spacing





Joseph Nielson
Feb 22, 2024



Potential Dixie Sunbowl Uses/Activities

Arena

- Dixie Roundup Rodeo
- Broncs & Bulls
- Demolition Derby
- Motocross
- Motocross (Electric)
- Concerts

Sunbowl Square

- 3 on 3 Basketball
- Food Truck Court
- Pickleball Overflow
- Small Events
- Small Concerts

Golf Cart Road Discussion

SUBTITLE

East:

400 E/900 S (Riverside Dr to River Road)

450 N (Mall Drive to 3050 E)

West:

100 N (Valley View to Dixie Drive)

Stonebridge Dr (Dixie Dr to Santa Clara)

South:

3430 E (2000 S to 2450 S)

Bloomington Drive (Full Loop)

Bloomington Hills Drive (Fort Pierce N to Brigham)

Fort Pierce Drive

Desert Canyons Dr

Desert Edge Dr (Desert Canyon)

Desert Hills Drive (Price Hills to Roundabout at Thunder Rd)

Horseman Park (River Road to 3000 E)

Quarry Ridge Dr

Treatment Plant Road (3780 S)

Man-O-War (Pioneer to Bloomington Dr) Discussion. Narrow road, but it is a major access road. Concern for the amount of traffic and golf carts going over the bridge.

North

- Cloud Drive (Ledges area)

Downtown-NONE



Question?



City Cemetery

Discussion Regarding:



Reclaimed
Lots Policy

Fees

Updating
Vaults

Sexton shall probe each reclaimed lot

When the owner's redeemed lot results in a bad probe, may allow for trade at any City cemetery if there is space.

City will set aside at least 50 reclaimed lots to address any tardy issues; available for disposal January 1, 2029. Extinguished interest holder have first priority to purchase at current price if available (good probe).

Other reclaimed lots will be disposed beginning January 1, 2025 by random selection, ordinary sale, or sunset the lot(s) in perpetuity.

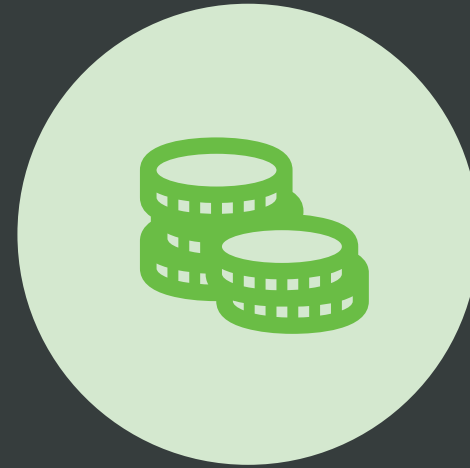
Lot owner may be allowed an upright or flat headstone at Sexton's discretion.

Reclaimed Lots Policy in a Nutshell

Cemetery Fees Discussion



CURRENT FEES



PROPOSED FEES

Arlington National Cemetery uses them

Less wear and tear on the grounds.

Narrower than cement vaults

City Code 7-5-10 Vaults proposed change:

- Before a casket is accepted for burial, it must be housed within a ~~concrete~~ *an approved* vault having fixed top and side panel edge restraints incorporated into the construction and having a strength capable of uniformly withstanding a stress of seven and one-half (7-1/2) pounds per square inch. If a particular type or construction of a vault is rejected by the sexton, the mortician or party utilizing the vault shall bear the burden of proving compliance with the strength requirements of this section. Cremated remains must be placed in a cremation vault made of fiberglass, concrete, or metal with a strength deemed adequate by the sexton.

Polyurethane Vaults Discussion

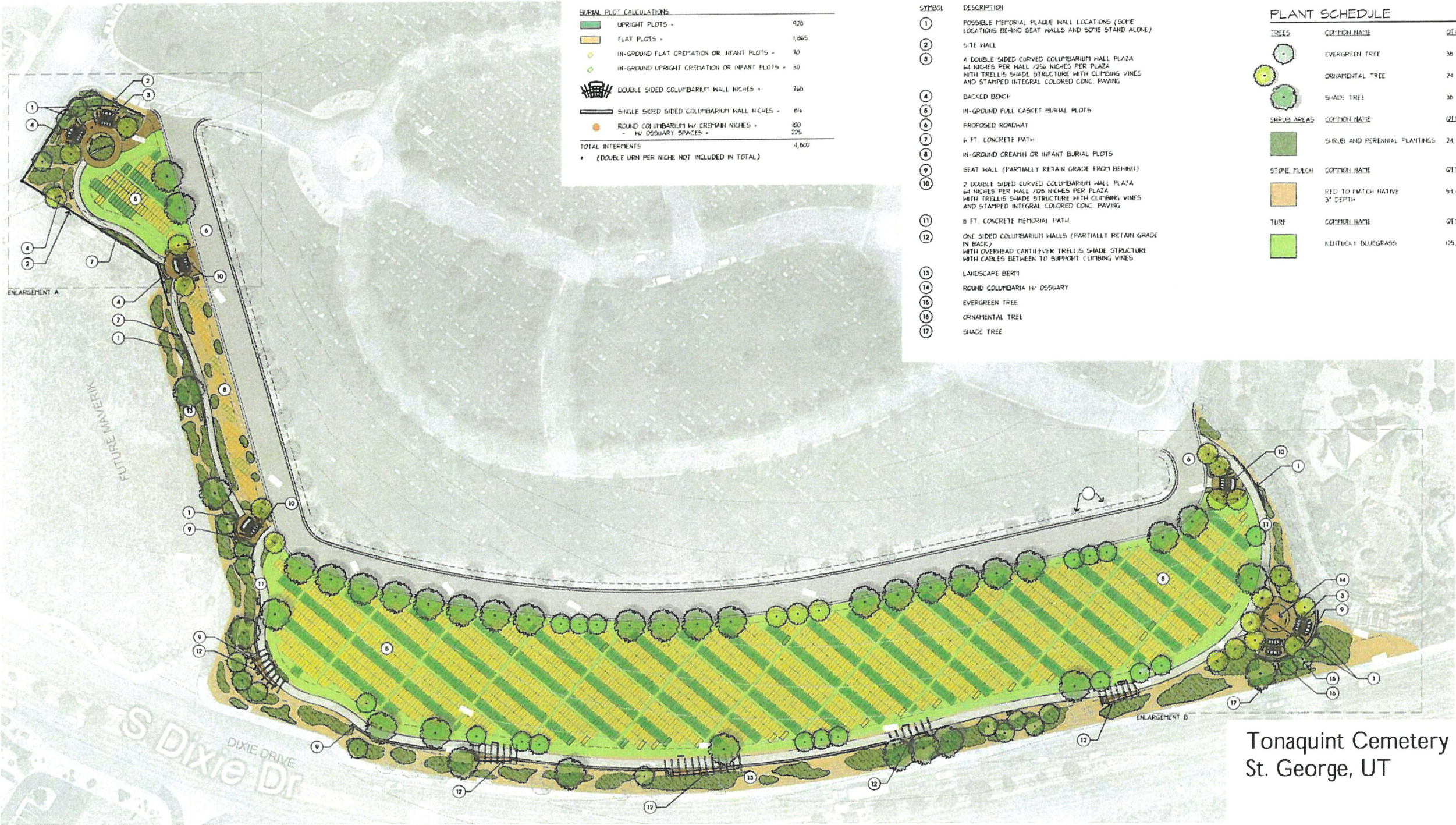


Columbarium

Questions, Comments, Concerns, Feedback?



MASTER PLAN
March 13th, 2023



Cemetery Expansion Layout with Proposed Fee Increases				
Original Design				
Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
928	\$1,350.00	\$1,252,800.00	\$550.00	\$800.00
			\$510,400.00	\$742,400.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1865	\$1,000.00	\$1,865,000.00	\$550.00	\$450.00
			\$1,025,750.00	\$839,250.00
Total Lots = 2793				
Total Revenue		\$3,117,800.00	\$1,536,150.00	\$1,581,650.00
Increase Fee \$50-Plot & \$100-PC				
Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
928	\$1,500.00	\$1,392,000.00	\$600.00	\$900.00
			\$556,800.00	\$835,200.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1865	\$1,150.00	\$2,144,750.00	\$600.00	\$550.00
			\$1,119,000.00	\$1,025,750.00
Total Lots = 2793				
Total Revenue		\$3,536,750.00	\$1,675,800.00	\$1,860,950.00
Increased Revenue		\$418,950.00	\$139,650.00	\$279,300.00
** Note:Increased Revenue is for the entire Section. Based upon yearly plot sales (500/year * \$150 increase fee) this would increase annual cemetery revenue by \$75,000/year				
Increase Fee \$50-Plot & \$150-PC				
Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
928	\$1,550.00	\$1,438,400.00	\$600.00	\$950.00
			\$556,800.00	\$881,600.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1865	\$1,200.00	\$2,238,000.00	\$600.00	\$600.00
			\$1,119,000.00	\$1,119,000.00
Total Lots = 2793				
Total Revenue		\$3,676,400.00	\$1,675,800.00	\$2,000,600.00
Increased Revenue		\$558,600.00	\$139,650.00	\$418,950.00
** Note:Increased Revenue is for the entire Section. Based upon yearly plot sales (500/year * \$200 increase fee) this would increase annual cemetery revenue by \$100,000/year				
Cremation Garden Areas				
Flat Crem Lots	Plot	Total	Lot Fee	Perpetual Care Fee
70	\$560.00	\$39,200.00	\$200.00	\$360.00
			\$14,000.00	\$25,200.00
Upright Crem Lots	Plot	Total	Lot Fee	Perpetual Care Fee
30	\$700.00	\$21,000.00	\$340.00	\$360.00
			\$10,200.00	\$10,800.00
Columbarium Niche	Plot	Total	Lot Fee	Perpetual Care Fee
1584	\$700.00	\$1,108,800.00	\$265.00	\$435.00
			\$419,760.00	\$689,040.00
Total Lots = 1684				
Total Revenue		\$1,169,000.00	\$443,960.00	\$725,040.00
Year	Avg. lot sales	Total Lots with expansion	5293	
2020-2023	50.20/month 600/year	Years until sold-out based on 500 lots sold per year	10.6	

Cemetery Expansion Layout (Rev Uprights) with Fee Increases

Original Design

Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
928	\$1,350.00	\$1,252,800.00	\$550.00	\$800.00
			\$510,400.00	\$742,400.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1865	\$1,000.00	\$1,865,000.00	\$550.00	\$450.00
			\$1,025,750.00	\$839,250.00
Total Lots = 2793				
Total Revenue		\$3,117,800.00	\$1,536,150.00	\$1,581,650.00

Double Uprights & No Increase Fee

Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
			\$550.00	\$800.00
			\$1,023,550.00	\$1,488,800.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
			\$550.00	\$450.00
			\$512,600.00	\$419,400.00
Total Lots = 2793				
Total Revenue		\$3,444,350.00	\$ 1,536,150.00	\$ 1,908,200.00
Increased Revenue		\$326,550.00	\$ -	\$ 326,550.00

Double Uprights & Increase Fee \$50-Plot & \$100-PC

Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1861	\$1,500.00	\$2,791,500.00	\$600.00	\$900.00
			\$1,116,600.00	\$1,674,900.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
932	\$1,150.00	\$1,071,800.00	\$600.00	\$550.00
			\$559,200.00	\$512,600.00
Total Lots = 2793				
Total Revenue		\$3,863,300.00	\$ 1,675,800.00	\$ 2,187,500.00

Increased Revenue	\$745,500.00	\$ 139,650.00	\$ 605,850.00
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** Note: Increased Revenue is for the entire Section. Based upon yearly plot sales (500/year * \$150 increase fee) this would increase annual cemetery revenue by \$75,000/year

Double Uprights & Increase Fee \$50-Plot & \$150-PC

Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1861	\$1,550.00	\$2,884,550.00	\$600.00	\$950.00
			\$1,116,600.00	\$1,767,950.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
932	\$1,200.00	\$1,118,400.00	\$600.00	\$600.00
			\$559,200.00	\$559,200.00
Total Lots = 2793				
Total Revenue		\$4,002,950.00	\$ 1,675,800.00	\$ 2,327,150.00

Increased Revenue	\$885,150.00	\$ 139,650.00	\$ 745,500.00
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** Note: Increased Revenue is for the entire Section. Based upon yearly plot sales (500/year * \$200 increase fee) this would increase annual cemetery revenue by \$100,000/year

Double Uprights & Increase Fee \$50-Plot & \$200-PC

Upright Lots	Plot	Total	Lot Fee	Perpetual Care Fee
1861	\$1,600.00	\$2,977,600.00	\$600.00	\$1,000.00
			\$1,116,600.00	\$1,861,000.00
Flat Lots	Plot	Total	Lot Fee	Perpetual Care Fee
932	\$1,250.00	\$1,165,000.00	\$600.00	\$650.00
			\$559,200.00	\$605,800.00
Total Lots = 2793				
Total Revenue		\$4,142,600.00	\$ 1,675,800.00	\$ 2,466,800.00

Increased Revenue	\$1,024,800.00	\$ 139,650.00	\$ 885,150.00
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** Note:Increased Revenue is for the entire Section. Based upon yearly plot sales (500/year * \$250 increase fe) this would increase annual cemetery revenue by \$125,000/year

Cremation Garden Areas

Flat Crem Lots	Plot	Total	Lot Fee	Perpetual Care Fee
70	\$560.00	\$39,200.00	\$200.00	\$360.00
			\$14,000.00	\$25,200.00
Upright Crem Lots	Plot	Total	Lot Fee	Perpetual Care Fee
30	\$700.00	\$21,000.00	\$340.00	\$360.00
			\$10,200.00	\$10,800.00
Columbarium Niche	Plot	Total	Lot Fee	Perpetual Care Fee
1584	\$700.00	\$1,108,800.00	\$265.00	\$435.00
			\$419,760.00	\$689,040.00

Total Lots = 1684				
Total Revenue		\$1,169,000.00	\$443,960.00	\$725,040.00

<i>Year</i>	Avg. lot sales	Total Lots with expansion	5293
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Polyguard & Co.

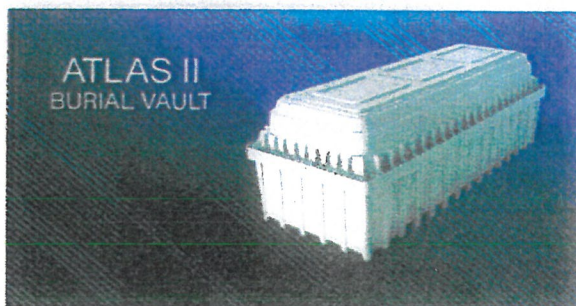
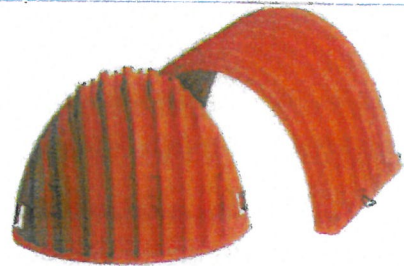
MANUFACTURERS OF QUALITY BURIAL PRODUCTS

Brad Rollins
Cody Schmitt
175 E 200 N
St George, UT 84770

February 19, 2024

Brad and Cody:

For nearly 40 years, Polyguard LLC has manufactured and distributed lightweight burial containers. The Polyguard products are manufactured by using a state of art process called injection molding. This manufacturing process utilizes structural foam and gasses which are injected into the polymer during the manufacturing process to maximize strength and performance. This molding method is the preferred manufacturing process in many different industries where the finished products are buried underground. Whether a common sprinkler head, a septic tank, or a complex parking lot support system, these products highlight the diverse use and application of products manufactured out of polymers.



Polyguard & Co.

MANUFACTURERS OF QUALITY BURIAL PRODUCTS

Polyguard has capitalized off advanced technology, and state of the art manufacturing processes, to create the strongest most diverse lightweight burial product line-up in the funeral industry.

A polyguard burial vault offers numerous advantages over competing burial containers in the market. A Polyguard burial vault offers a safe and easy to handle lightweight alternative to traditional burial containers. Cemetery ground disruption is minimal, keeping your cemetery looking beautiful and free of multiple trips with heavy machinery moving back and forth to an open grave site.

Polyguard vaults are used for strength and longevity. The properties offered by a polymer-based product include non-biodegradable, non-porous, and non-corrosive. Each vault has been tested by a third-party engineering firm, with test results exceeding the minimum downward pressure requirements set forth by the concrete industry.

Who uses the Polyguard burial containers?

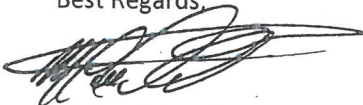
- Over 1500 Cemeteries across the U.S. and Canada
- The Largest Cemetery in the United States
- Arlington National Cemetery – for the past 20 plus years
- State Veterans cemeteries throughout the United States
- Public and Private cemetery locations

The following a just a few references you are welcome to contact:

1. Shiloh District Cemetery: Jeff Kramarsic 707-838-6684
2. Murdoch Monuments (David Murdoch): 208-521-9641
3. Scott Davis: (City Sexton Idaho Falls) 208-201-8125
4. Hightower Properties: Jimmy Tindol 334-398-0396
5. H&R Thermovac – Bobby Etzel 435-637-2668

Polyguard is the largest supplier of lightweight burial vaults and containers in the United States. We have built a reputation of providing the highest quality polymer burial vaults in the funeral industry. Thank you for your time and consideration. If I can assist you with any additional information, please do not hesitate to contact me.

Best Regards,



M. Lee Schwab
President - Polyguard & CO

FOR IMMEDIATE RELEASE

[St. George, UT 02/02/2024]

Kenworthy Monuments is awarded an exclusive distributorship in Southern Utah for Polyguard & Co. LLC.

Polyguard & Co. LLC, North America's Largest Polymer Burial Vault Manufacturer and leading provider of lightweight adult burial products, proudly announces Kenworthy Monuments in Southern Utah as an Exclusive Distributor.

Kenworthy Monuments has long been recognized for its exceptional service and commitment to excellence. Kenworthy Monuments' stellar reputation, built over 50 years, is a trusted name in Southern Utah for memorial products and services.

Polyguard & Co. LLC is known throughout North America for manufacturing precision-engineered 'space-age' polymer vaults as an alternative to traditional concrete vaults. The burial industry is changing, and Polyguard & Co. is proud to be on the cutting edge of those advancements as they become available.

M. Lee Schwab, President of Polyguard & Co. LLC, stated, "We are thrilled to announce Kenworthy Monuments as a new Distributor for Polyguard & Co. Kenworthy's dedication to providing high-quality products and services aligns perfectly with our values of providing the best possible products to families and those who serve in the burial industry."

As the exclusive distributor for Polyguard & Co. in Southern Utah, Kenworthy Monuments will offer Polyguard & Co. polymer burial vaults, urn vaults, and infant/youth products.

For more information contact:

Kenworthy Monuments

PH: 435-628-3335

WEB: kenworthymonuments.com

EMAIL: office@kmonuments.com

**Kenworthy Monuments
3738 S River Rd Suite 3
St. George, UT 84790**

Hours:

Mon-Fri: 9 am to 5 pm

Saturday: 10 am to 3 pm

Closed Sunday



"Serving those who serve"

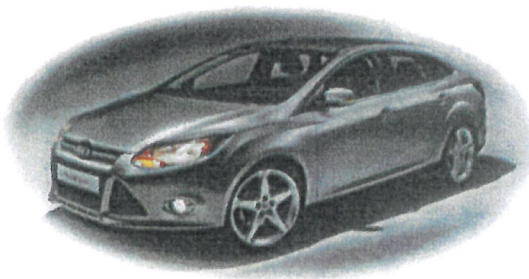
Polyguard & Co.

1-800-654-1067 • www.polyguardvaults.com

Evolution

Change is at the very core of evolution. What we think and feel today, is subject to revision tomorrow.

*Polyguard polymer vaults,
new age polymer materials
for new age concepts.*

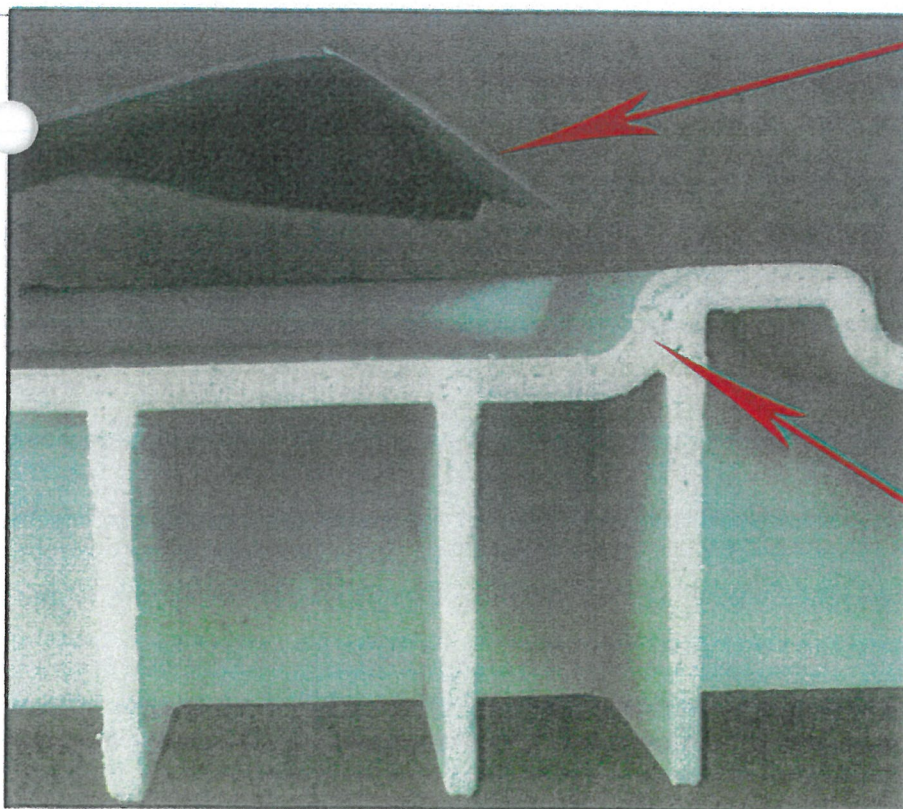


Applications of polymer

- | | |
|------------------------|--|
| Aerospace | • Space structures, satellite antenna, rocket motor cases, high pressure fuel tanks, nose cones, launch tubes. |
| Aircraft | • Fairings, access doors, stiffeners, floor beams, entire wings, wing skins, wing spars, fuselage, radomes, vertical and horizontal stabilizers, helicopter blades and gear doors, seats, interior panels. |
| Chemical | • Pipes, tanks, pressure vessels, hoppers, valves, pumps, impellers. |
| Electrical | • Panels, housing, switchgear, insulators, connectors. |
| Leisure | • Tennis racquets, ski poles, skis, golf clubs, protective helmets, fishing rods, play ground equipment, bicycle frames. |
| Marine | • Hulls, decks, masts, engine shrouds, interior panels. |
| Medical | • Prosthesis, wheel chairs, orthofies, medical equipment. |
| Transportation | • Body panels, dashboards, frames, cabs, spoilers, bumpers, leaf springs, drive shafts. |
| Burial Industry | • Mausoleum liners, marker bases, concrete vault liners, urn vaults, burial vaults. |

Protection

Polyguard Hercules and Atlas vaults are made from .250 (**1/4 inch thick**) water resistant non-biodegradable polypropylene. Protective concrete vaults usually consist of a styrene or abs liner that is .050 or less than (**1/16 inch Thick**) of water resistant protection.



.050

(Typical Concrete Liner)

Creating the protection on the inside of the concrete.

.250

**Or 1/4 in. thick
consistant protective
barrier**

**Polyguard vaults really are the ultimate
in protection**

Facts About Polypropylene

- Designed to last hundreds of years
- Three times stronger than steel
- Will not rust
- Will not crumble
- Lightest among major plastics
- Heat resistant
- Variety of applications

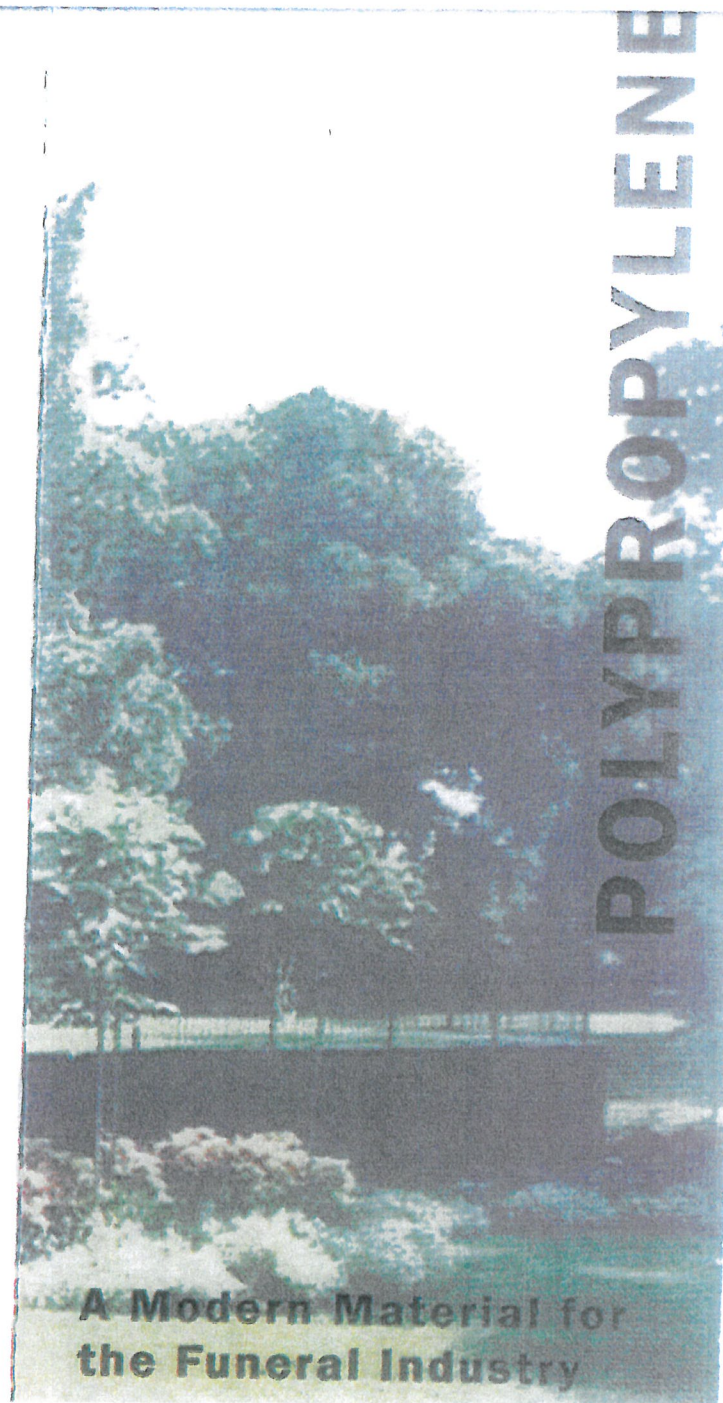
Common Uses of Polypropylene

- Automotive bumpers and accessories
- Refrigerator liners
- Under-ground storage tanks
- Industrial pallets
- Medical instruments
- Infant car carriers
- Luggage
- Swimming pool panels
- Computer cases
- Portable electronic equipment

Isotactic Polypropylene Containers

VANTAGE[®]
Products Corporation

960 Almon Road
Covington, GA 30014
770.788.0136
800.481.3303
Fax: 770.788.0361
www.vantageproducts.com



POLYPROPYLENE

**A Modern Material for
the Funeral Industry**

A New Generation Of Plastic

Typically, the term "plastic" will bring to mind a clear, flexible material used for the packaging of food and for other disposable applications. Plastic uses are often thought to extend only to throw-away soda bottles and cellophane wrappers.

Today, however we are beginning to enjoy a new generation of plastics with a much broader spectrum of applications. Plastics are now noted for their structural strength and lasting durability as well as for being a lightweight alternative to most metals.

Polypropylene - A Modern Material

Paving the way to this exciting revolution in plastics technology is polypropylene, a strong and yet lightweight material with a variety of industrial automotive and everyday uses. This space age material is stronger and more durable than many other resin compounds and is considered the lightest among all major plastics.

With an extremely low specific gravity, polypropylene has enabled many durable goods to become portable. Personal computers and hand-held calculators have become possible

Resistant to Chemicals and Decay

Breaking away from the plastics' stereotype of being disposable polypropylene is an extremely durable material. Unlike concrete and steel, polypropylene will not wear away over time and does not rust or react in any way with water, acid, detergents or nonoxidizing organic compounds. This chemical resistance insures the reliability of polypropylene's strength, making it a plastic you can count on year after year.

Ninety percent of the automotive storage battery cases now being produced are constructed out of this chemically resistant plastic. Other uses of polypropylene include window shutters automotive parts and accessories and many medical instruments including those with radiation resistant applications.

Three Times Stronger Than Steel

Although polypropylene is lightweight, it also represents a surprising amount of strength and durability. On a pound per pound basis, products made with polypropylene are about three times stronger than those made with steel.

Withstanding more than 4,000 pounds of pressure per square inch polypropylene is now replacing many metals as well as

Looking to the Future

With the continual refinement of our plastics technology polypropylene and similar plastics are rapidly becoming the metals of the future.

The lightweight properties and sheer strength of this new generation of plastics help to meet the needs of our growing technological society, making durable and yet portable goods possible.

Steel, concrete and other structural materials are becoming more and more obsolete as the variety of polypropylene applications continues to expand. The path of the future will depend on plastics like polypropylene which can be produced at lower cost with even greater product capabilities.



North America's
Largest Polymer Vault Company

OVERVIEW

The need for lightweight, durable, water-resistant burial products motivated Polyguard & Co., LLC's creation. Since 1984, Polyguard & Co. has provided North America with some of the finest burial products.

The evolution of Polyguard & Co. has set industry standards in manufacturing quality burial products. Over the years, Polyguard & Co. has utilized new technology as it becomes available.

























We deliver an alternative to traditional concrete vaults by using cutting-edge lightweight non-biodegradable polypropylene.

Millennial polypropylene vaults are a game-changer in storage, cost, structural integrity, and overall performance.

We use eco-friendly materials to manufacture that meet or exceed cemetery requirements while helping to preserve cemetery aesthetics.

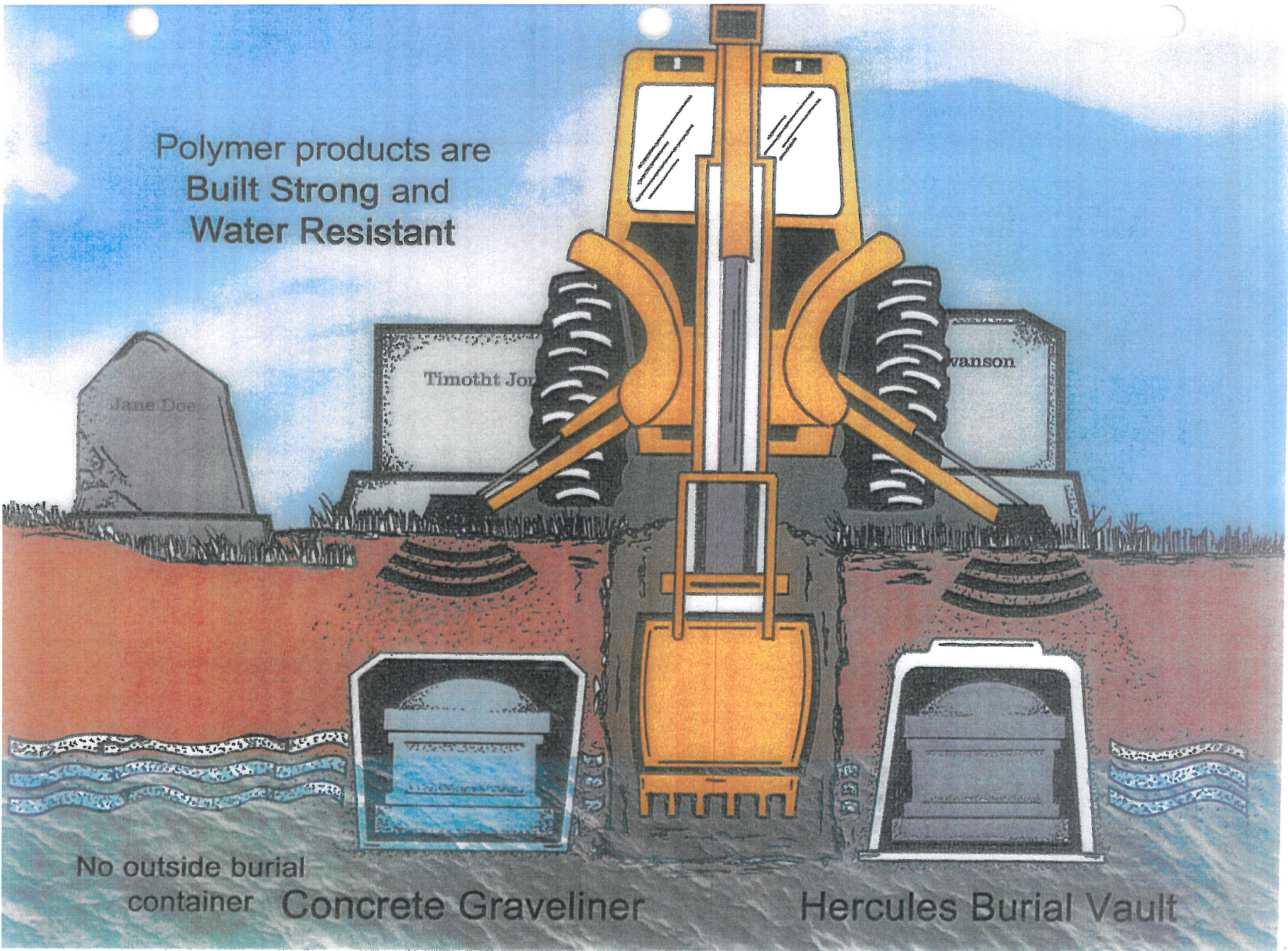
Growing with today's technology, Polyguard & Co engineers the latest state-of-the-art burial products. We are committed to manufacturing burial products that provide permanence and protection and families with peace of mind.

Concrete vs. Polymer

	Concrete		Polymer	
	YES	NO	YES	NO
Defines Gravesite				
Water Resistant				
Non-Biodegradable				
Environmentally Safe				
Aesthetically Pleasing				
Easily Handled				
Nest for Easy Storage				
Lower Workers Compensation Rates				
Special Equipment Needed				
Causes Damage to Cemetery				
Deteriorates Underground				
Porous				

Concrete vs. Polymer have only one thing in common, they define the gravesite. Comparisons between concrete and polymer vaults leave little doubt as to which is more economical, durable and safe. Don't settle for less than the best.

Polymer products are
Built Strong and
Water Resistant



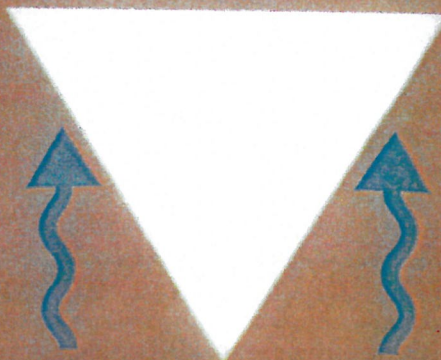
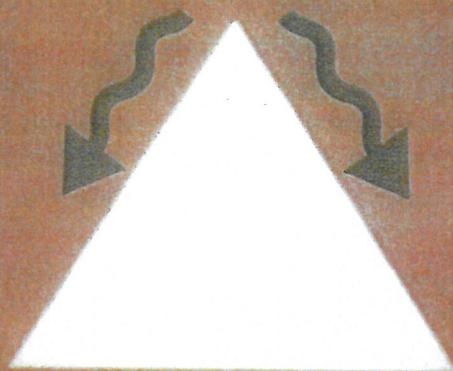
No outside burial
container

Concrete Graveliner

Hercules Burial Vault

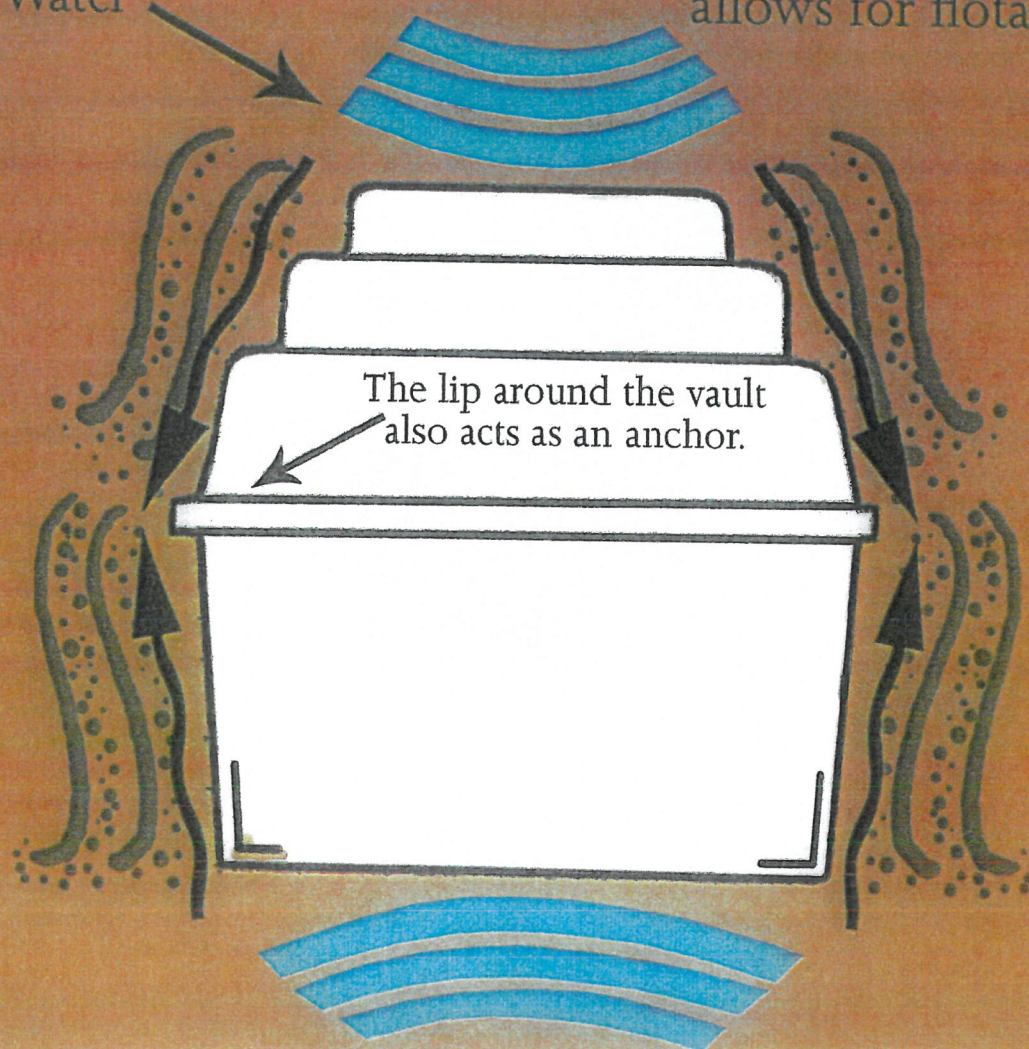
The ATLAS wedge design secures the vault in the ground preventing flotation in wet graves.

Polyguards wedge design anchors the vault into the ground



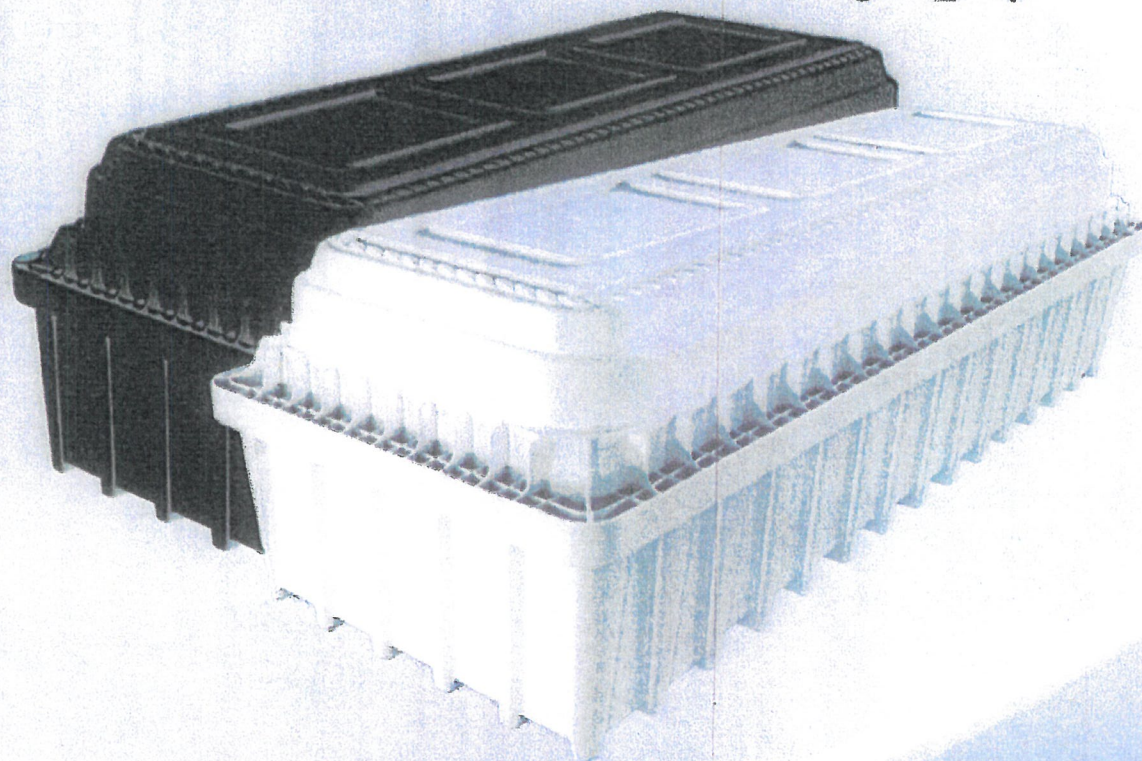
Competitors boat design allows for flotation

Water



ATLAS II

BURIAL VAULT





ATLAS II

BURIAL VAULT

The Atlas II - "Top Seal"

The Atlas Vaults feature unmatched strength and designed to withstand day-to-day downward pressure from the cemetery surface and the earth load from within the grave. Originally designed and produced in 1995, this lightweight top seal vault was reengineered in 2022.

Updates to the Atlas were focused on the mid-section with increased structural strength where the lid and base join together. With a focus on reducing sidewall deflection, more gussets were added to the lid, along with a redesign of the tongue and groove channel where the lid and base join together.



ISO 9001:2000

**CRT LABORATORIES, INC.**

1680 North Main Street, Orange, CA 92667

Tel: (714) 283-2012 • Fax: (714) 283-1367

www.crtlabs.com • e-mail: crt@labs.pacbell.net

ASTM Physical & Mechanical • Chemical • Thermal Analysis • XRF • SEM • EDS

Ex: Studies in Materials • Plastics • Coatings • Corrosion • Resin & Finished Product Testing

TEST REPORT

Polyguard and Company

P.O. Box 1269

Afton, Wyoming 83110

Tel: (800) 654-1067 / Fax: (307) 886-3884

ATTN: Mr. Vance Schwab

17004-2

February 9, 2007

BACKGROUND:

Customer submitted one (1) sample for testing. The sample arrived at CRT on 02/05/2007 via customer delivery. Visual inspection was performed on 02/05/2007 and no product defects or shipping discrepancies were noted. Sample submitted to identify compressive strength. Testing to be performed per customer requirements and signed CRT quotation dated 01/24/2007. The following additional information is provided:

CRT Order Entry Log Date: 01/29/2007**Sample Description:** ATLAS Vault**SPECIFICATION:**

Customer Requirements: Minimum 5,000 lbf for 5 minutes

TEST PROCEDURE:

The chamber was placed in a test frame. A customer supplied base was used for bottom and side support. Eight (8) 50-lb bags of 3/8" - 5/8" smooth river rock were placed on top of the vault to distribute load. A 6" x 6" H-beam was placed on top of the rock bags to apply the load. Load was applied using a 20-Ton Hydraulic jack and monitored using a Sensotek load cell. The required load was held for 5 minutes and then incrementally increased until failure.

TEST RESULTS:

Load obtained	Time	Ultimate Load
2,270 kg (5,000 lbf)	5 minutes	5,490 kg (12,100 lbf)

OBSERVATIONS:

Ribs cracked on the underside of the lid. There was no collapse of the vault.

CONCLUSION:

The sample was able to sustain the required load of 2,268 kg (5,000 lbf) for 5 minutes. The sample conforms to customer requirements.

...Complies

**Atlas Tested
to 12,100 lbs**

Specimen Retain Bin: Samples returned to customer upon completion of testing

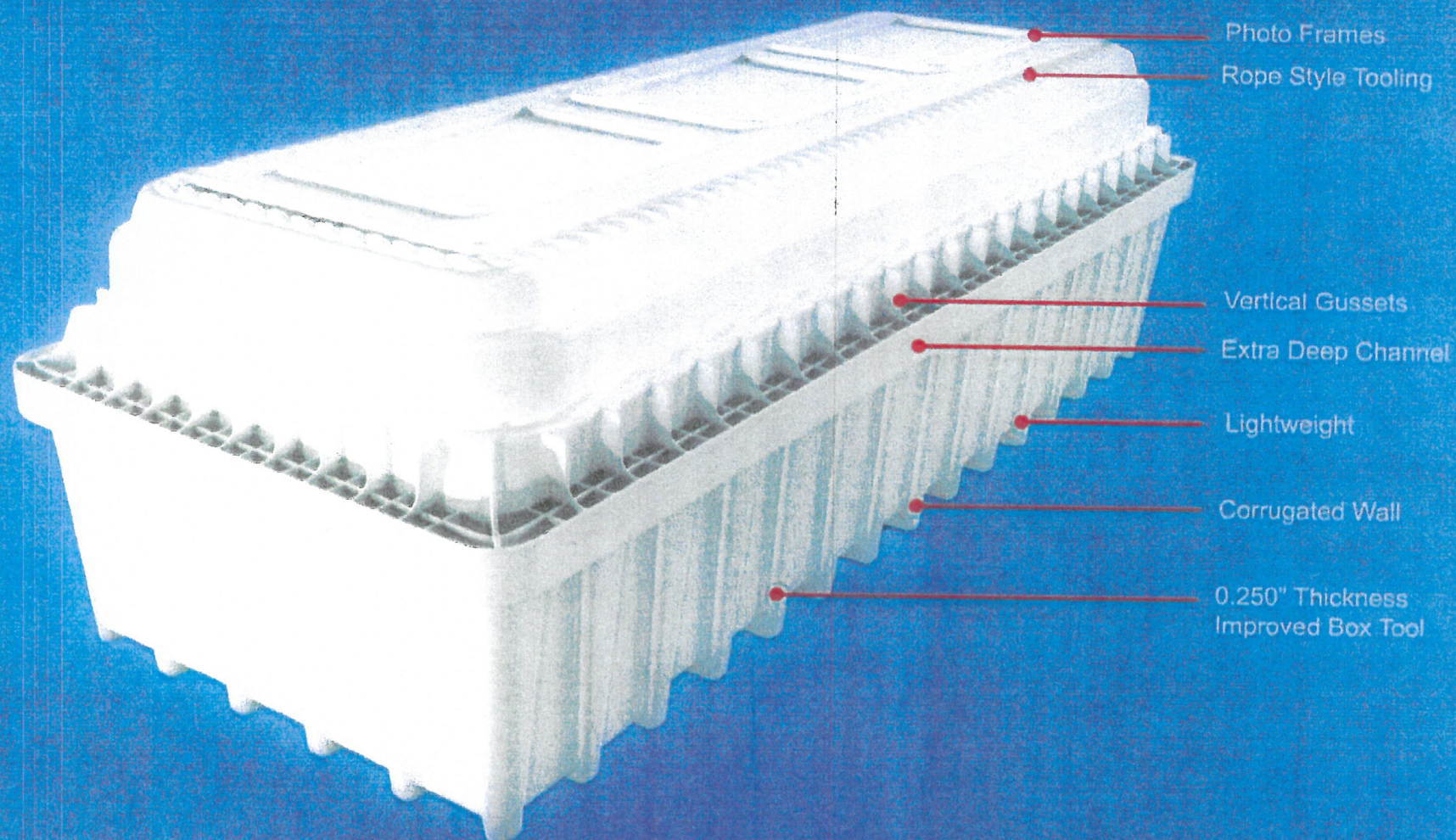
CRT LABORATORIES, INC.

UL Registered / ISO 9002 Certified

Ken A. LeJeune
Laboratory Director / PresidentTom J. Parsons
General Manager

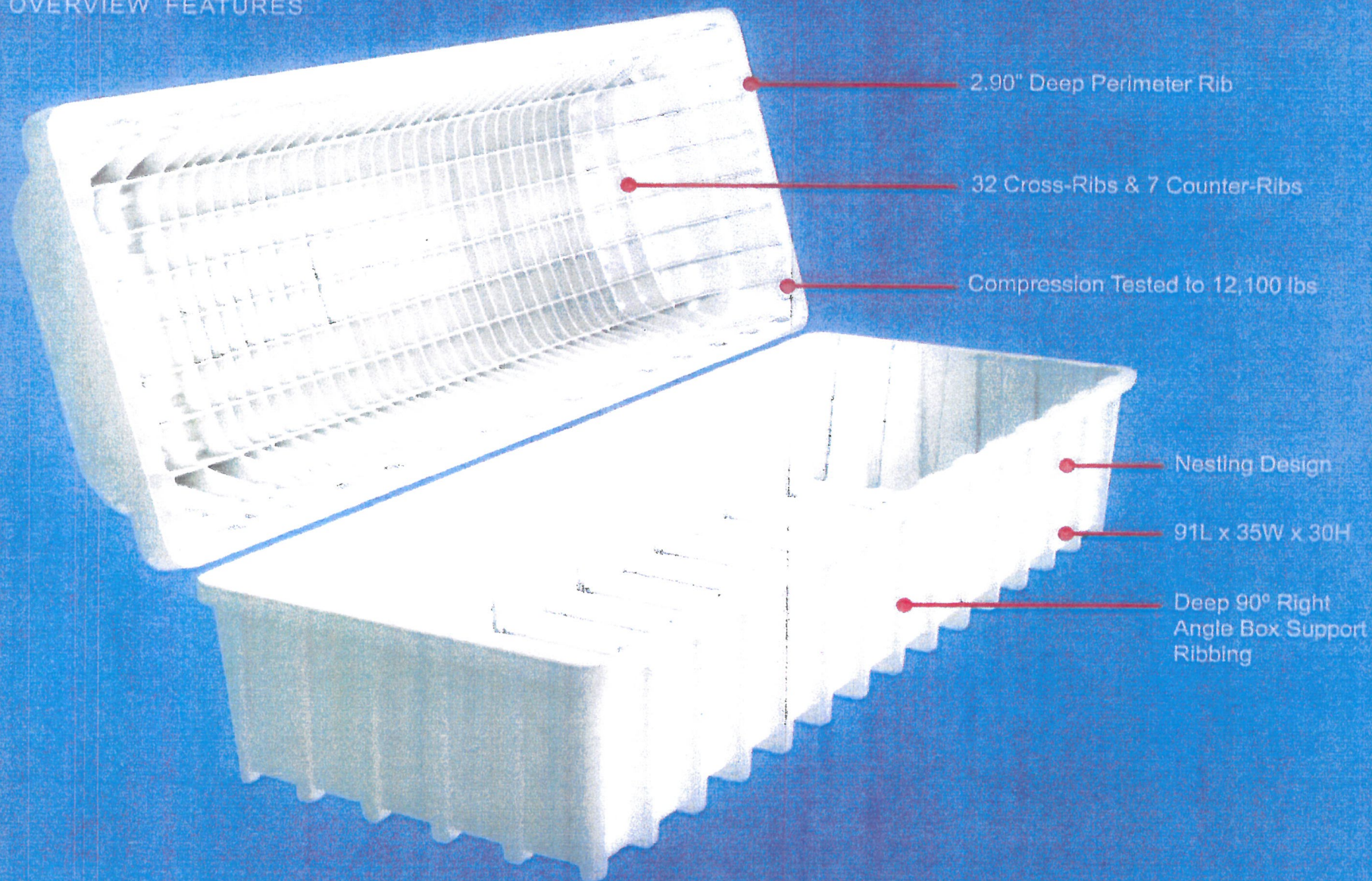
ATLAS II

OVERVIEW FEATURES



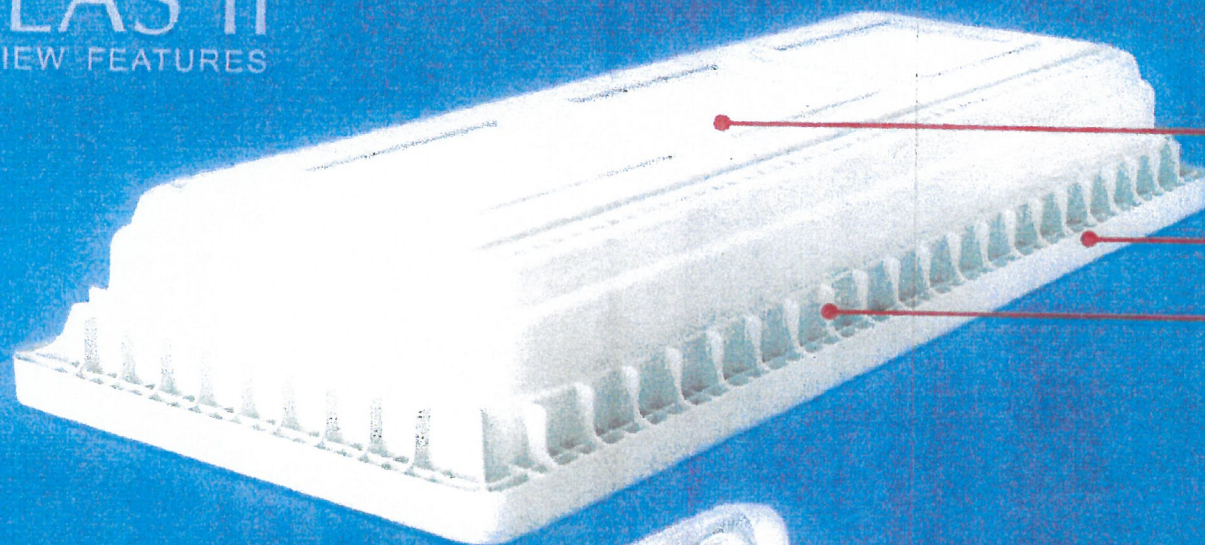
ATLAS II

OVERVIEW FEATURES



ATLAS II

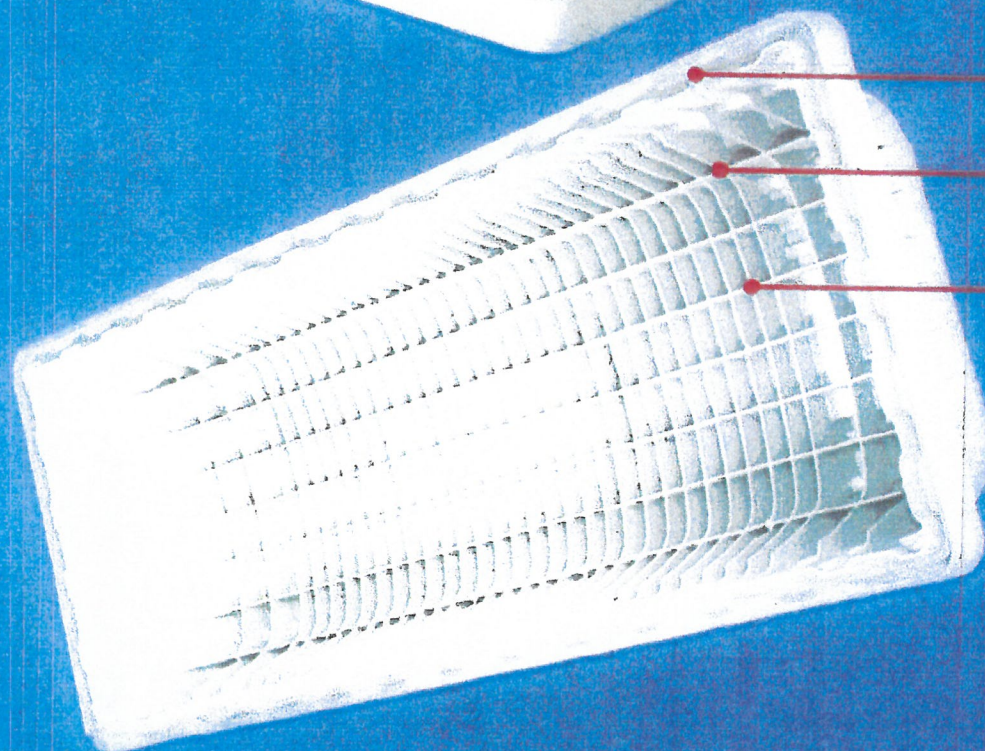
OVERVIEW FEATURES



Carapace Frames

180° Reinforced Perimeter Lip

Vertical Gussets Facilitate
Net-Zero Side Wall Expansion



Deep Tongue N' Groove 2.90"

Deep Arched Ribbing

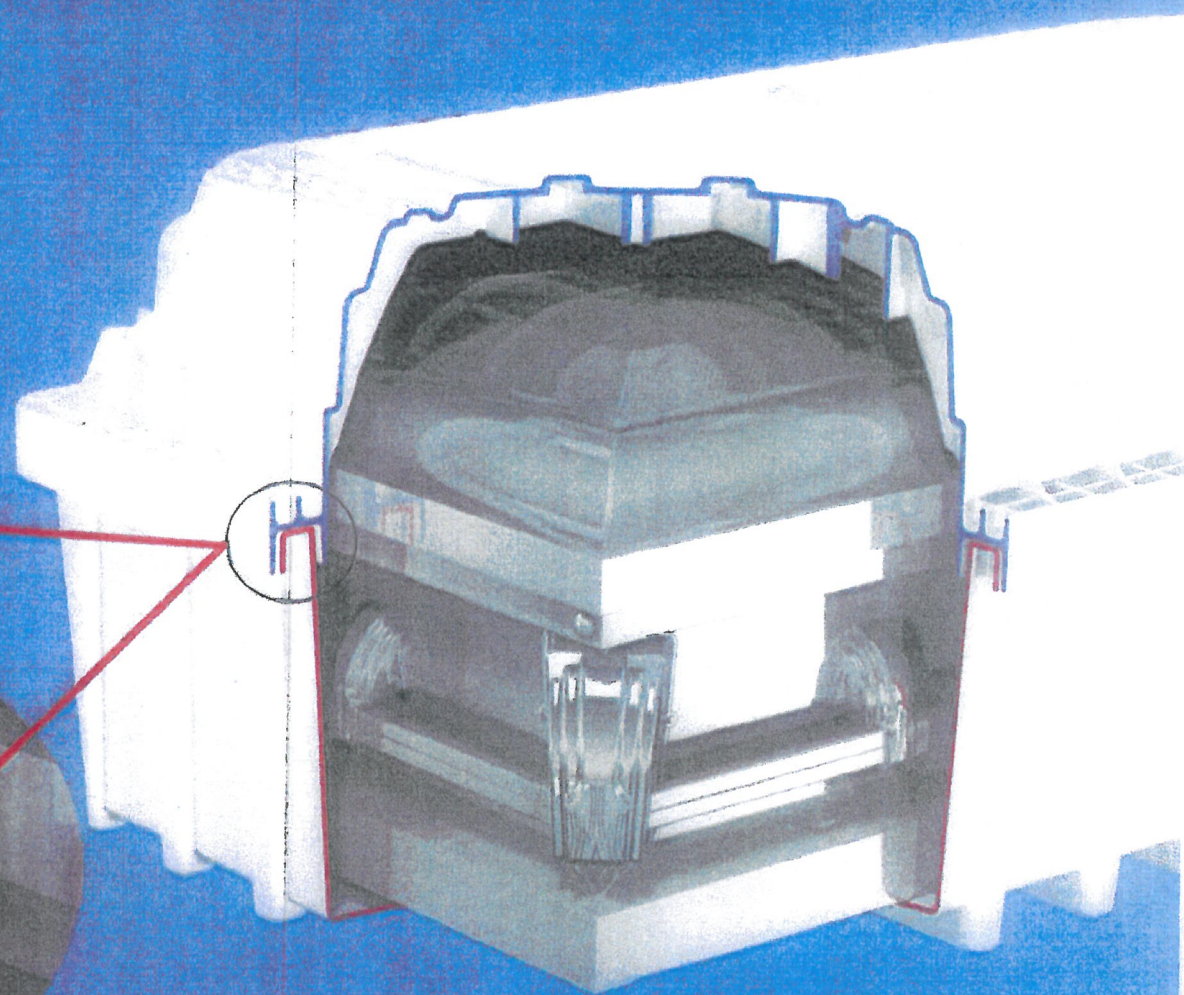
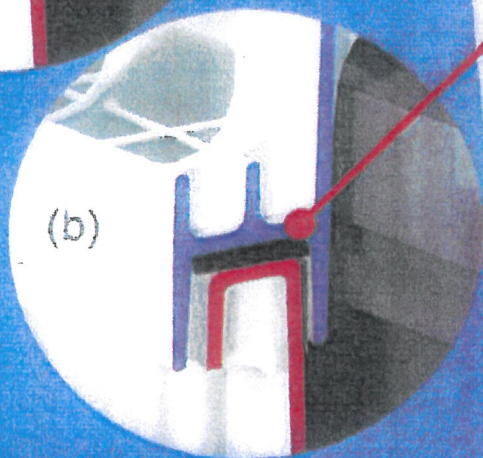
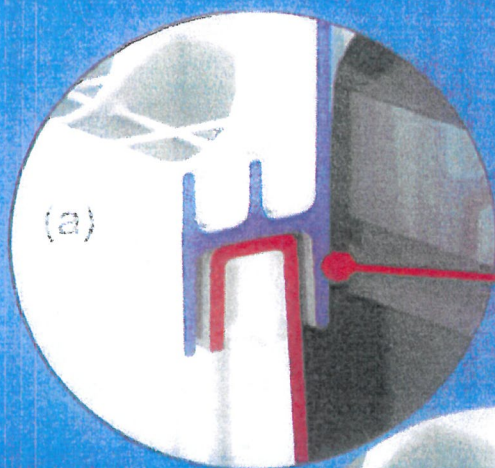
Lid Engineered With 32 Cross
Ribs, 7 Counter Ribs, and 1/33"
Rib to Center

• Certified Load Bearing
Capacity: 12,100 lbs

• Lid: 81 lbs
Box: 62 lbs
Total Weight: 143 lbs

ATLAS II

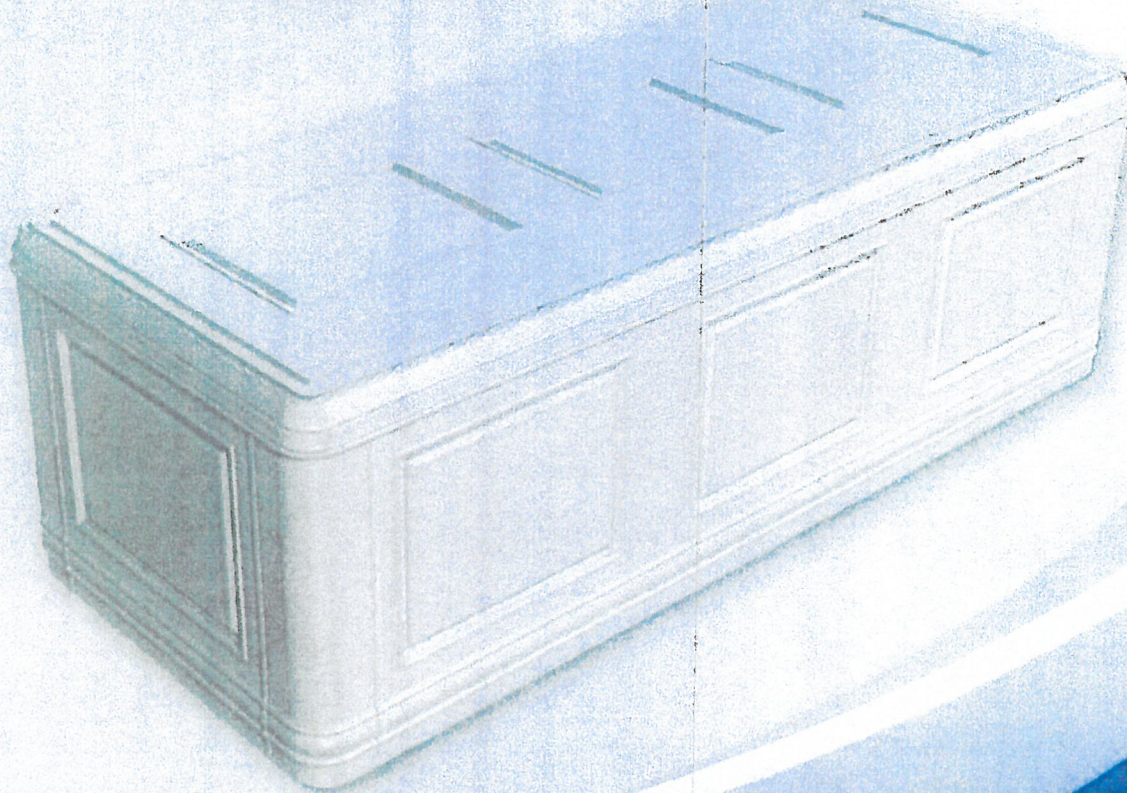
OVERVIEW FEATURES



- (a) Reinforced Deep-Set Tongue and Groove Channel
- (b) Waterproof Mastic Sealant Applied Between Box and Lid

MAXIMUS

BURIAL VAULT





MAXIMUS

BURIAL VAULT

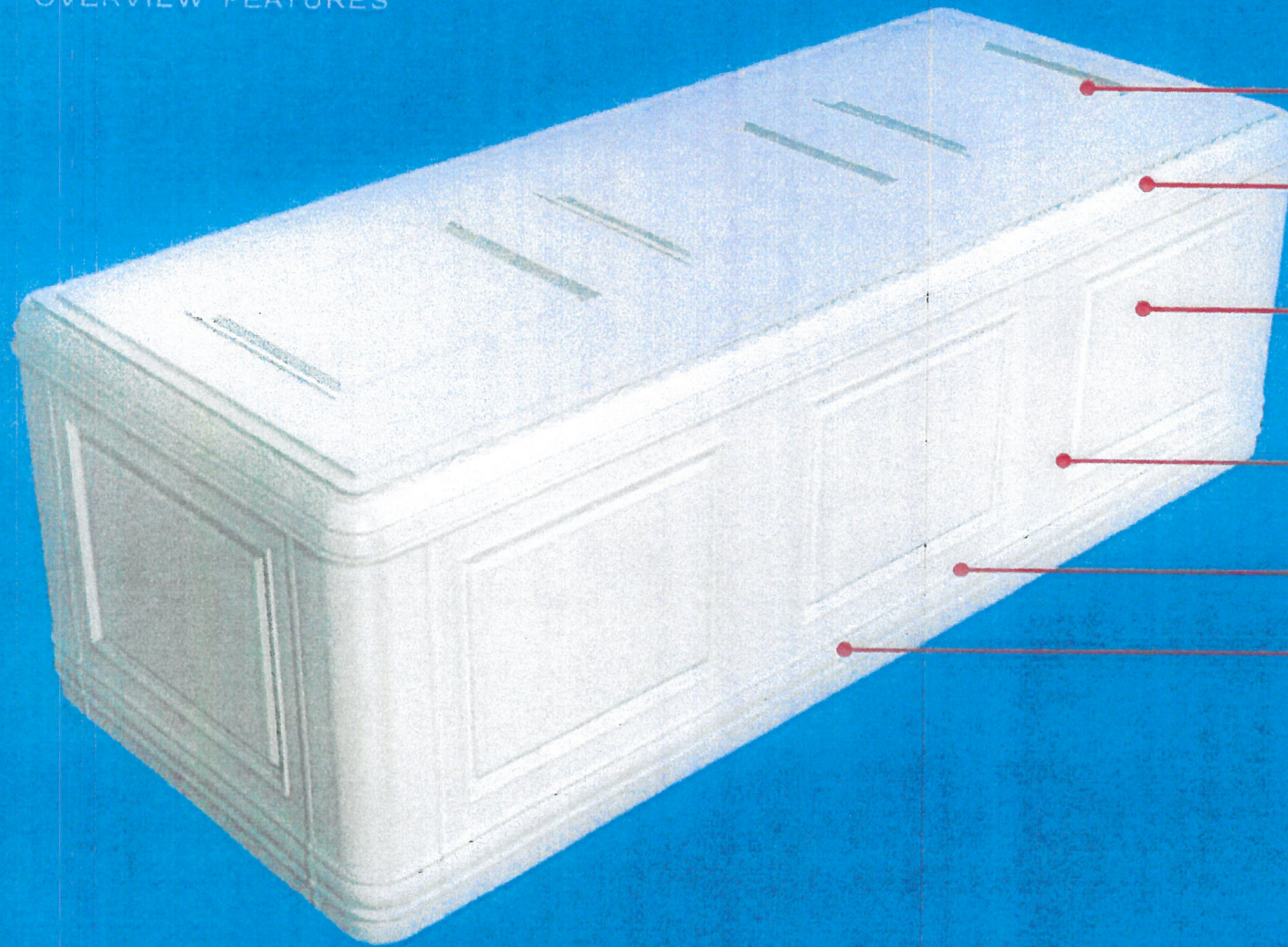
The Maximus - "Assembly Innovation"

The Maximus is the only polymer burial vault that ships flat and is assembled onsite. This premium vault was designed with ribbing and cross-ribbing on all six sides for superior strength and performance.

The design elements and structure of the Maximus were derived from input and collaboration between the Polyguard & Co. product development team and key personnel from a large cemetery group in California. The Maximus offers exceptional presentation at the graveside but also provides peace of mind in the protection and cemetery grounds integrity.

MAXIMUS

OVERVIEW FEATURES



Picture Frames

Aesthetic Design:
Braid Detail on Lid

Decorative Panes
on Ends and Sides!
Add Strength

Many Design Features
Engineered for Strength

Eco-Friendly Material

State of the Art
Engineering:
USA Patent Office



TESTING ENGINEERS, INC.

*Quality Assurance Services
Materials Consulting
Since 1954*

March 5, 2020

TEI Job No. M192

Polyguard and Company
145 Twin Spruce Lane, PO Box 1269
Afton, Wyoming 83110

Attn: Lee Schwab
P: 800.654.1067
E: polyguard@silverstar.com

SUBJECT: *POLYGUARD BURIAL VAULT LOAD TESTING
145 TWIN SPRUCE LANE
AFTON, WYOMING 93110*

Dear Mr. Lee Schwab:

At your request, Testing Engineers, Inc. has completed load testing services for a Burial Vault supplied to our office by Polyguard and Company. The purpose of the testing was to perform a center load pressure test and to determine the maximum load the burial vault could support. The test procedure for the center load test was in performed in accordance with the National Concrete Burial Vault Association's (NCBVA) Performance Standards and Plan Certifications Manual procedure, but there were no specifications or written test procedure for maximum load testing. Following is an explanation of the test procedure and setup utilized as well as an explanation of the test result.

PROCEDURES & RESULTS

As indicated, the performance center load test was performed in accordance with the NCBVA test requirements. A preload pressure of approximately 500 pounds was applied to a one square foot steel plate with a hydraulic ram reacting off an independent steel frame. Photographs of the center load test load setup are shown in in Figures 1 and 2. The preload was maintained for a duration of 1 minute and then the vault was loaded in 500 pound increments over a duration of 30 seconds. Once each approximately 500 pound load increment was reached the load was held for a duration of one minute. Per the procedure for the concrete vault the test the test is to be stopped when either the lid deflection exceeds ½-inch or if any other surface deflects more than ¼-inch. In addition, we indicated there is no written test procedure for the maximum load testing for this type of burial vault. In order to try to replicate the service conditions of the burial vault the vault was confined with a wood box. A photograph of the test load setup is shown in Figure 3. Sand bags were placed on the top of the vault and a steel H beam with a width of about 4 inches with (3) 12 inch long by 8-1/4 inch wide plates at the ends and middle of the beam was placed on the sandbags in order to provide uniform loading on the top of the vault for the maximum load testing. In both cases the vault and confining box were placed in our test apparatus located at 2811 Teagarden Street in San Leandro. We then utilized a 12-ton ram for the center load test and a 30-ton hydraulic ram for the maximum load test both calibrated with a 6-inch, 10,000 psi McDaniel Controls, Inc. pressure gauge placed at the center of the vault and plate/beam. Our test apparatus consisting of a reaction frame was utilized with the hydraulic ram setup to load the vault. The test setup and apparatus is shown in Figures 1, 2, and 3 for both tests.

Following are the test results for the center load testing:

BURIAL VAULT PERFORMANCE CENTER LOAD TEST			
Load (lbs.)	Gauge Pressure (psi)	Deflection (in.)	
		Top	Side
500	200	0.000	0.000
1,000	400	0.073	0.027
1,500	600	0.240	0.054
2,000*	800	0.440	0.086
2,500*	1,000	0.634	0.135
3,000	1,200	0.880	0.225
3,500	1,400	>1.000	0.304
4,000	1,600	No additional load was able to be applied	

*Failure in accordance with the test method occurred between a load of 2,000 and 2,500 lbs.

For the maximum load testing setup, the vault was loaded to a maximum gauge pressure of approximately 2,400 psi before the vault started to fail. Vault failure in this test was considered when the ends of the burial vault lid could not withstand any additional loading. At a gauge pressure of 2,400 psi the total load on the vault is approximately 16,000 lbs.

Thank you for calling on Testing Engineers. If you have any questions or concerns, or if we may be of further assistance, please contact us at (510) 835-3142.

Sincerely,
TESTING ENGINEERS, INC.


Colin Stock
Consulting Division Manager

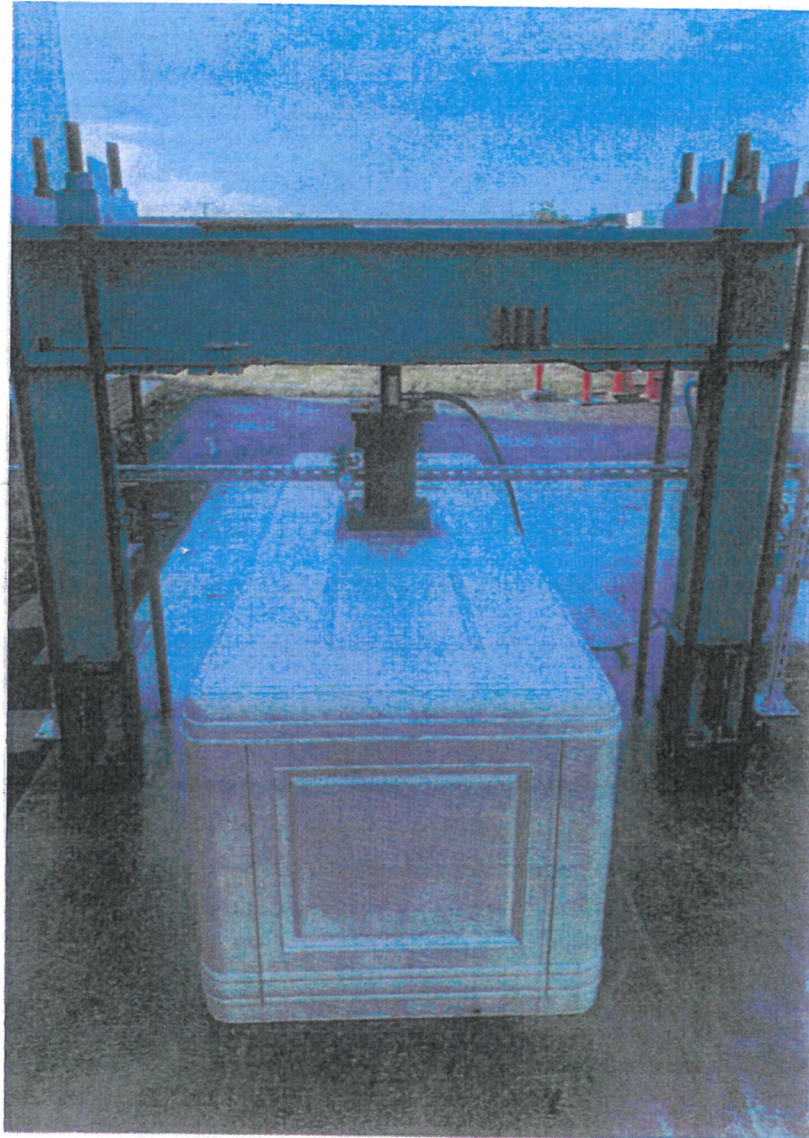


Figure 1 – Center Load Test Setup Photograph 1

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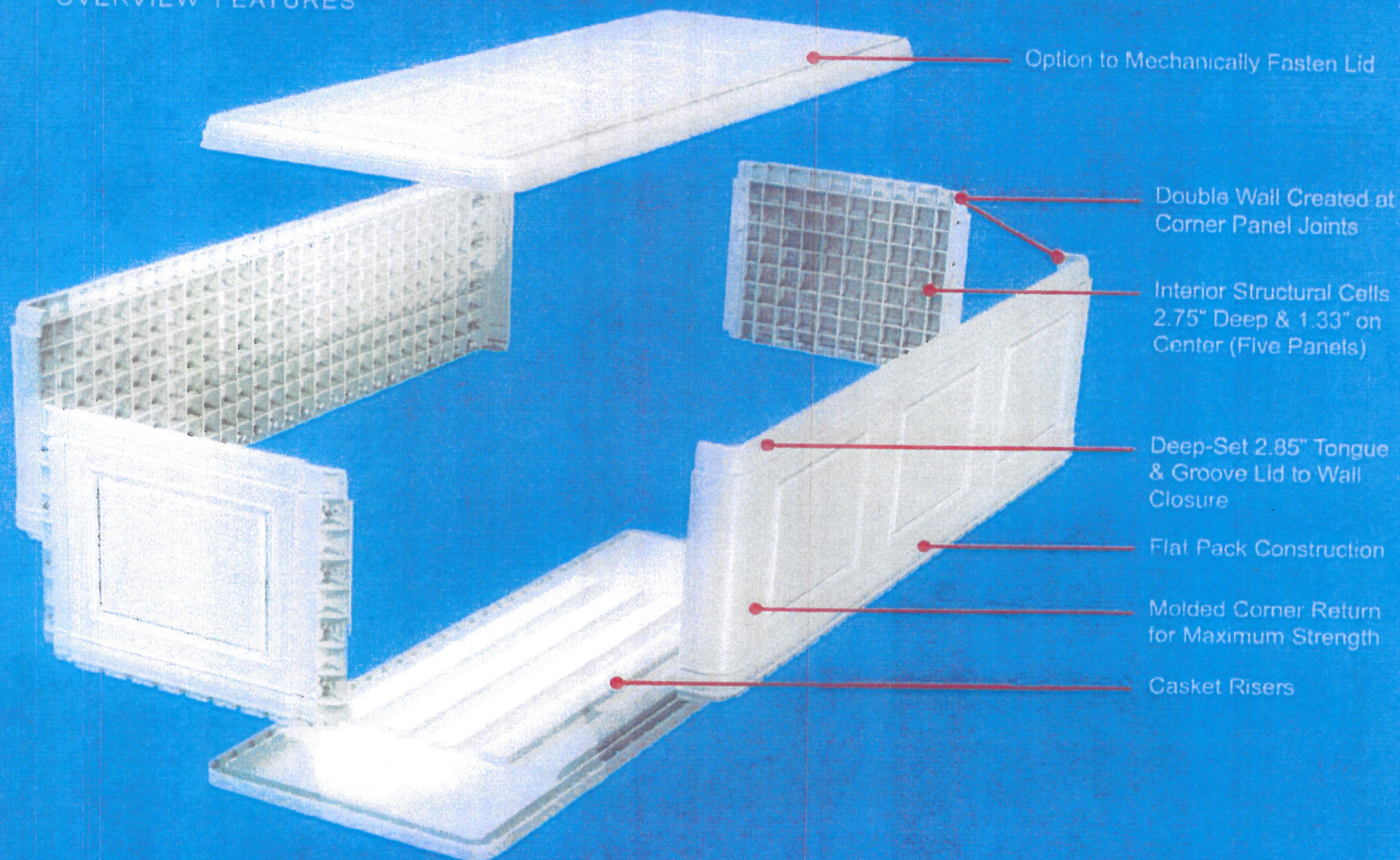


Figure 3 – Maximum Load Test Setup

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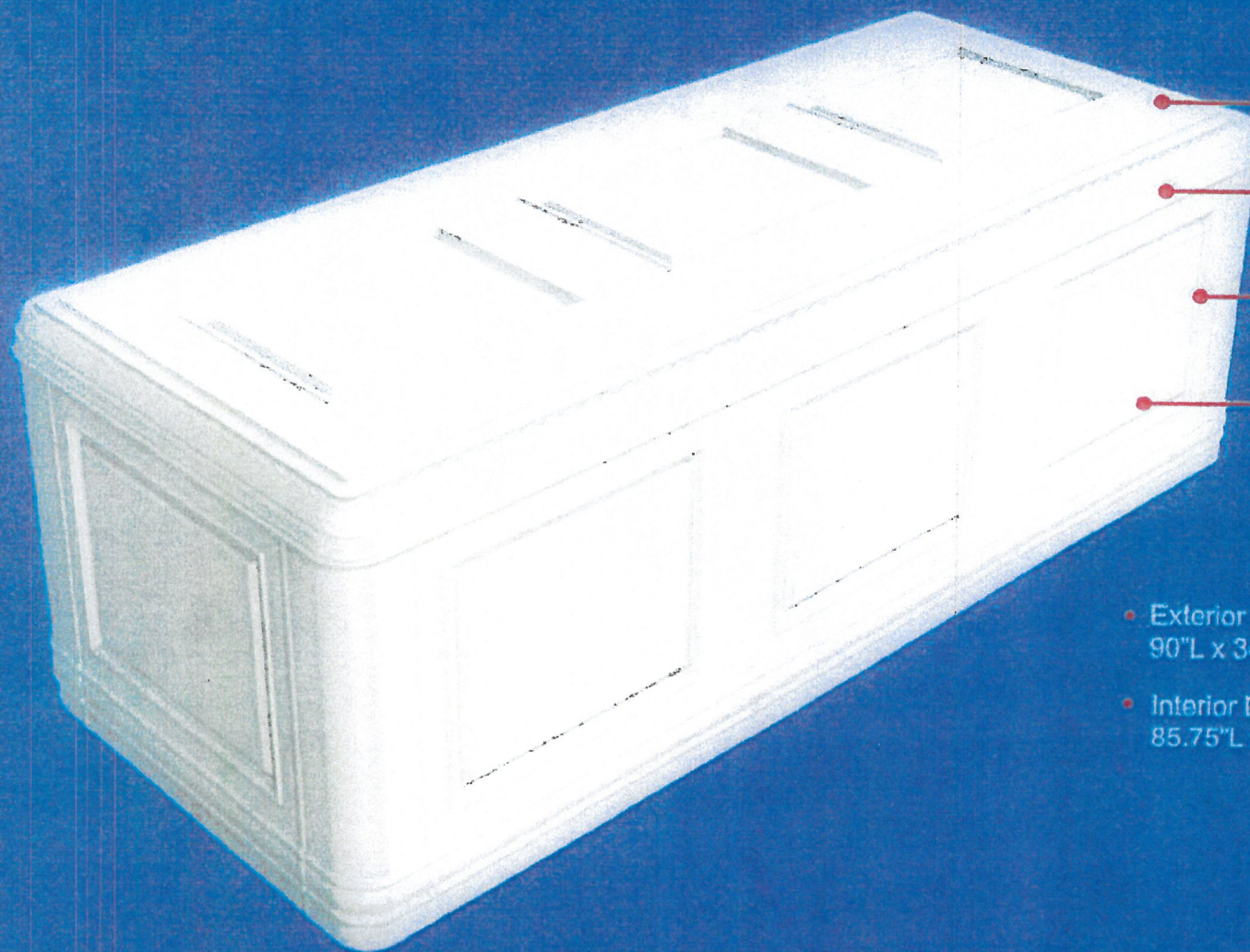
MAXIMUS

OVERVIEW FEATURES



MAXIMUS

OVERVIEW FEATURES



Steel Reinforced Lid
Option

Deep-Set Lid to
Box Closure

14,000 lb Vertical
Load Capacity

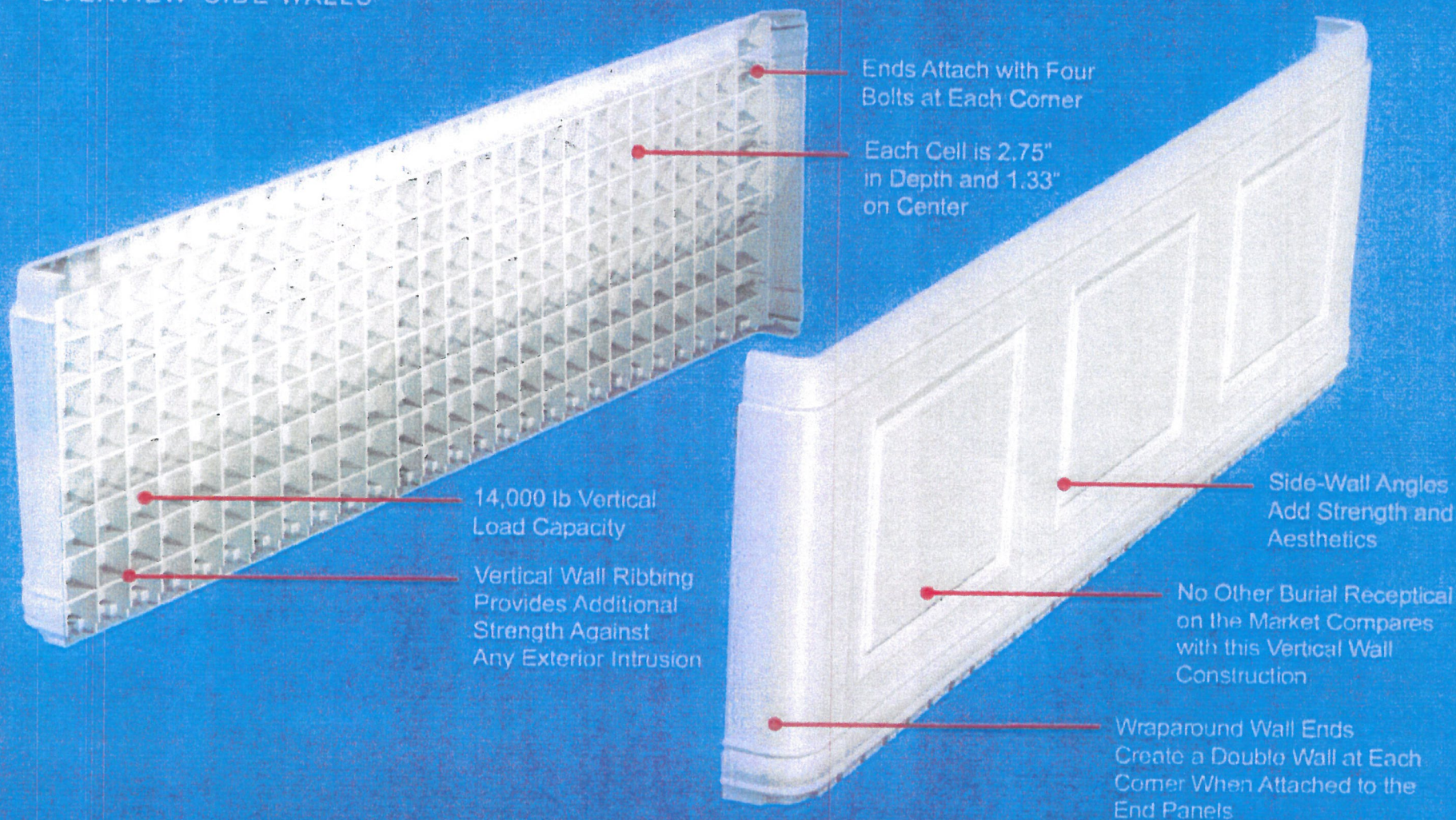
220 lbs of Engineered
Resin

- Exterior Dimensions
90"L x 34.6"W x 29"H

- Interior Dimensions
85.75"L x 30.25"W x 24.5"H

MAXIMUS

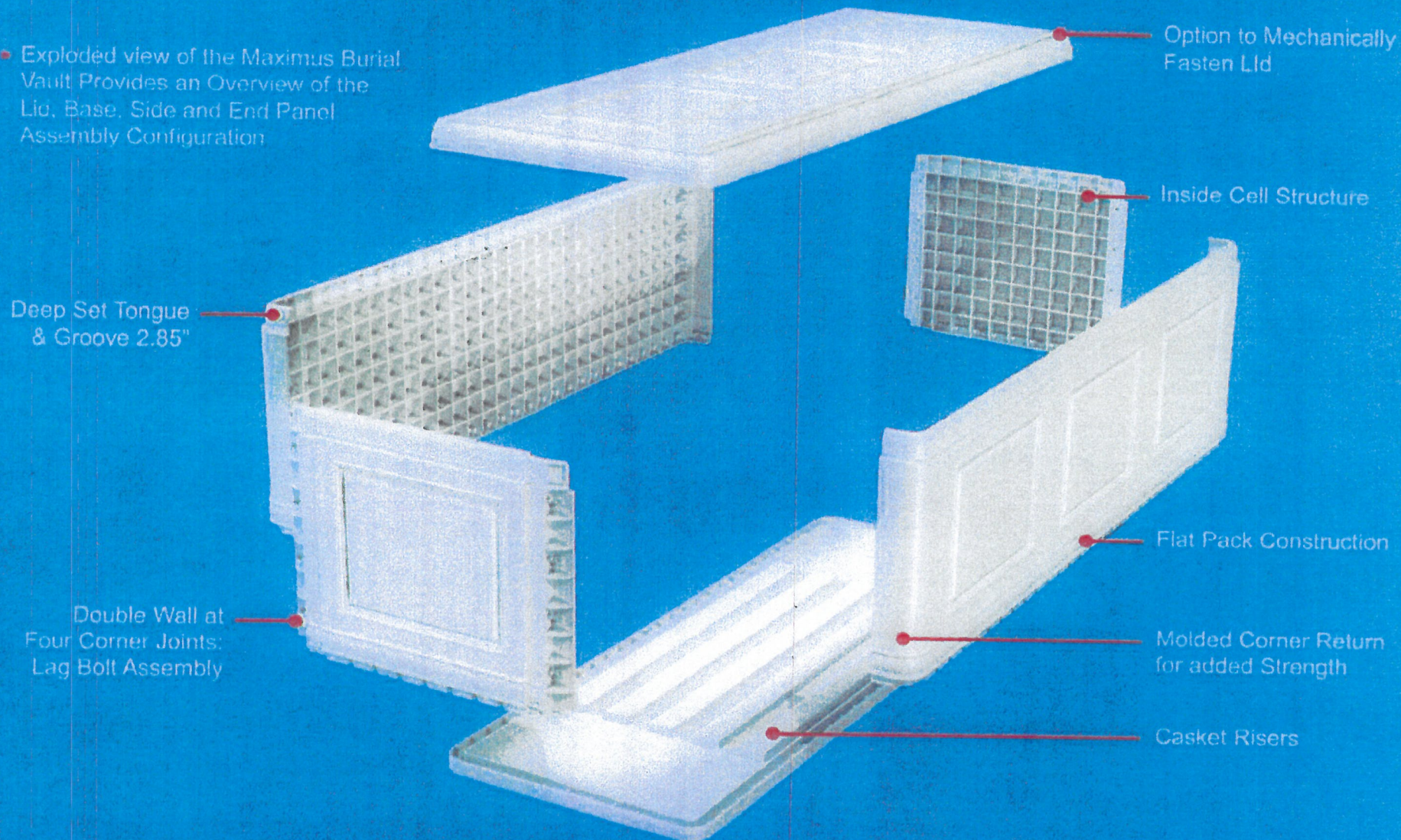
OVERVIEW SIDE WALLS



MAXIMUS

EXPLODED OVERVIEW

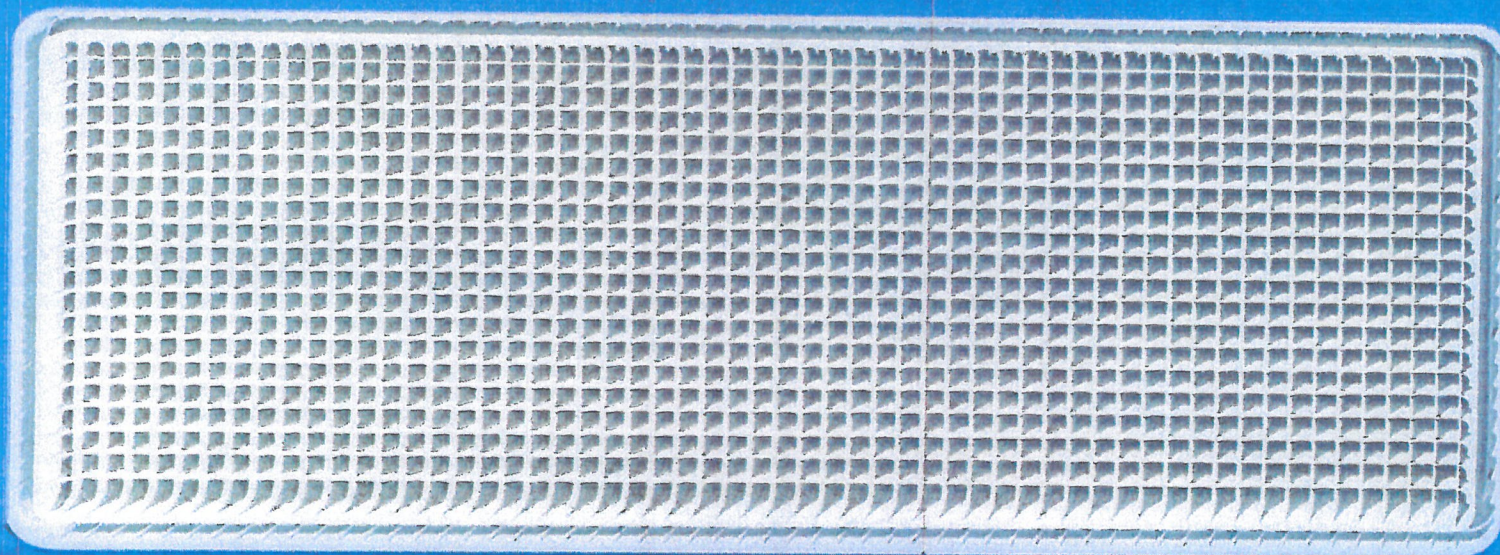
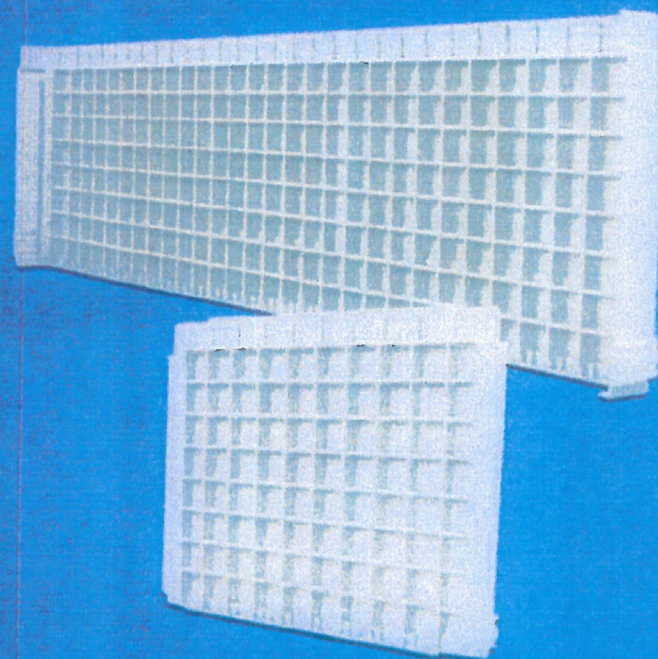
- Exploded view of the Maximus Burial Vault Provides an Overview of the Lid, Base, Side and End Panel Assembly Configuration



MAXIMUS

LID AND PANEL FEATURES

- Maximus Lid and Sidewall Construction Offers Maximum Strength, Minimal Sidewall Deflection
- Inside the End Panels: 10 Vertical Ribs, 8 Horizontal Ribs
- Inside Sidewall panels: 26 Vertical Ribs, 8 Horizontal Ribs
- Panel Cells: 2-3/4" Inches in Depth, 1.33" on Center
- Lid Joins Box Seamlessly, Easy "Tongue-in-Groove" Placement



MAXIMUS

STRUCTURAL STRENGTH TESTING



- 5K+ LBS
Maximus Load Bearing Test with
12" Plate Centered on Lid

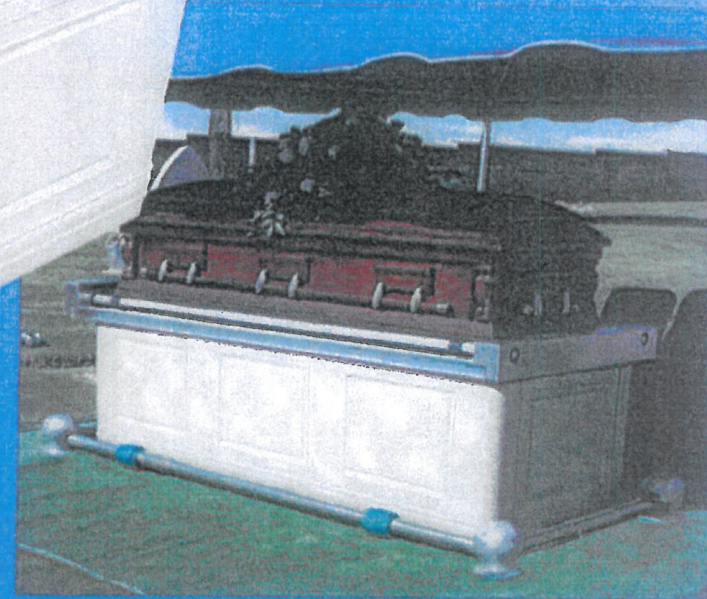
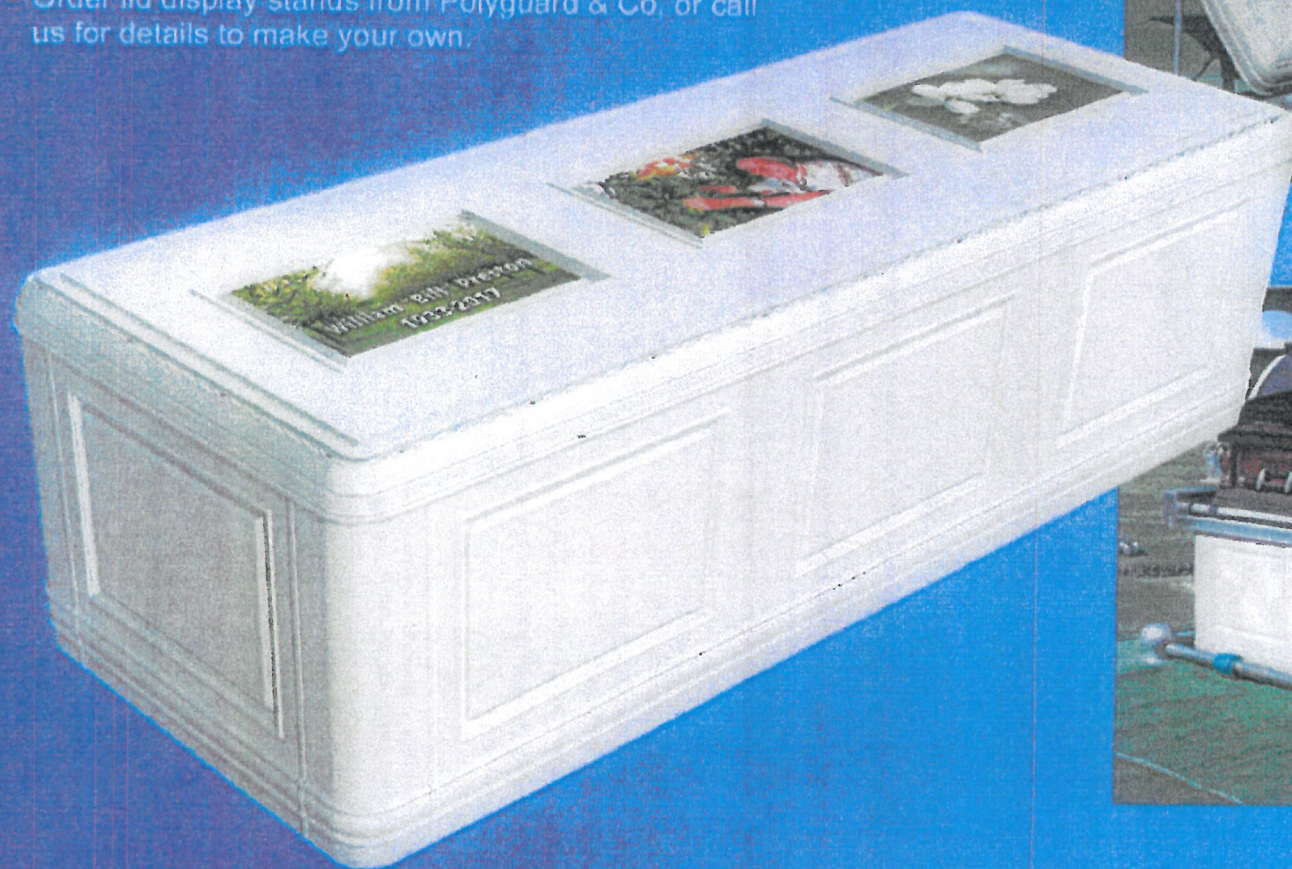
- 14K LBS
Maximus Load Bearing Test with
Steel Beam and Sandbags on
Length of the Vault



MAXIMUS

CEMETERY SETUP

- The Maximus Burial Vault cemetery setup includes custom lid stand with personalization; lowering device for the casket; and the lowering device for the interment.
- Order lid display stands from Polyguard & Co, or call us for details to make your own.



NEWS

Recycled plastic burial vaults and alternative to concrete

Julie Onufrak

Published 11:01 p.m. CT March 2, 2009 | Updated 1:17 a.m. CT March 3, 2009

The landscaping company that Derryl Lawrence owns with his father has been servicing cemeteries for 20 years. So it was somewhat of a natural progression for Lawrence to decide to go into the burial vault business.

One of his friends, a funeral director, suggested he check out plastic burial vaults rather than concrete ones. "The more I investigated it, the better the product seemed," Lawrence said.

Lawrence and his business partner, Bob DeCristoforo, founded Duke Burial Vaults in Plymouth in October.



"The overall advantage over the concrete ones is that it's five times stronger and about (ten) times lighter," Lawrence said.

He said that the vaults are strong enough to keep the ground above them structurally sound, preventing sinkholes. And the lighter weight allows crews to more easily transport them through cemeteries, without damaging the landscape.

DeCristoforo said he was partly convinced to come on board because he said the vaults are environmentally friendly, as they are made of recycled plastic (Lawrence also named the company after DeCristoforo's Great Dane, Duke). As a plumber, DeCristoforo said he has seen piping move from materials like copper and lead to plastic, and expected that vaults would eventually head in the same direction.

Lawrence said ethylene used in the manufacturing of the vaults is a byproduct of natural gas. "If it wasn't used in a positive manner, it would be chewing up the ozone layer," he said.

The vaults are sealed shut with a rubber-based gasket, making them air- and water-tight.

The company sells the vaults wholesale to funeral homes, which then sell them to the public. Massachusetts law dictates that all caskets be buried inside of a vault or a tomb. Lawrence said that the plastic vaults cost \$200 to \$1,500 less than their concrete counterparts. The vaults also come in five different colors.

The partners – both of whom live in Plymouth – said that several funeral homes and cemeteries in the area have given the vaults their stamp of approval, and are encouraging people to purchase them. They are hoping to expand their distribution throughout Massachusetts.

Julie Onufrak may be reached at tjonufrak@ledger.com.