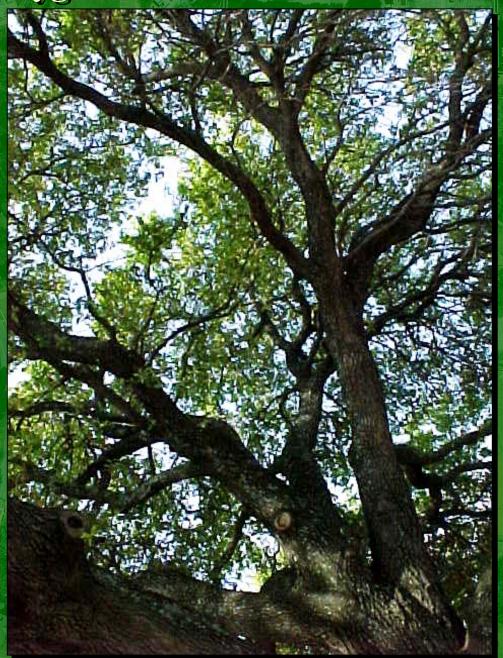
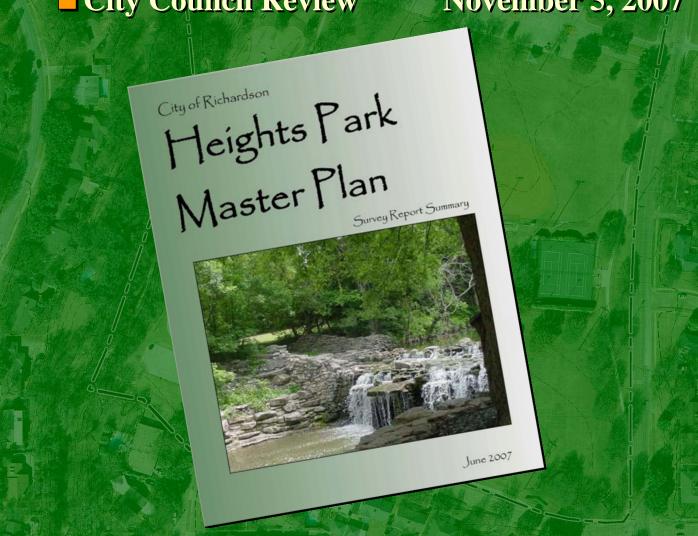
Heights Park Master Plan Playground Task Force Recommendations



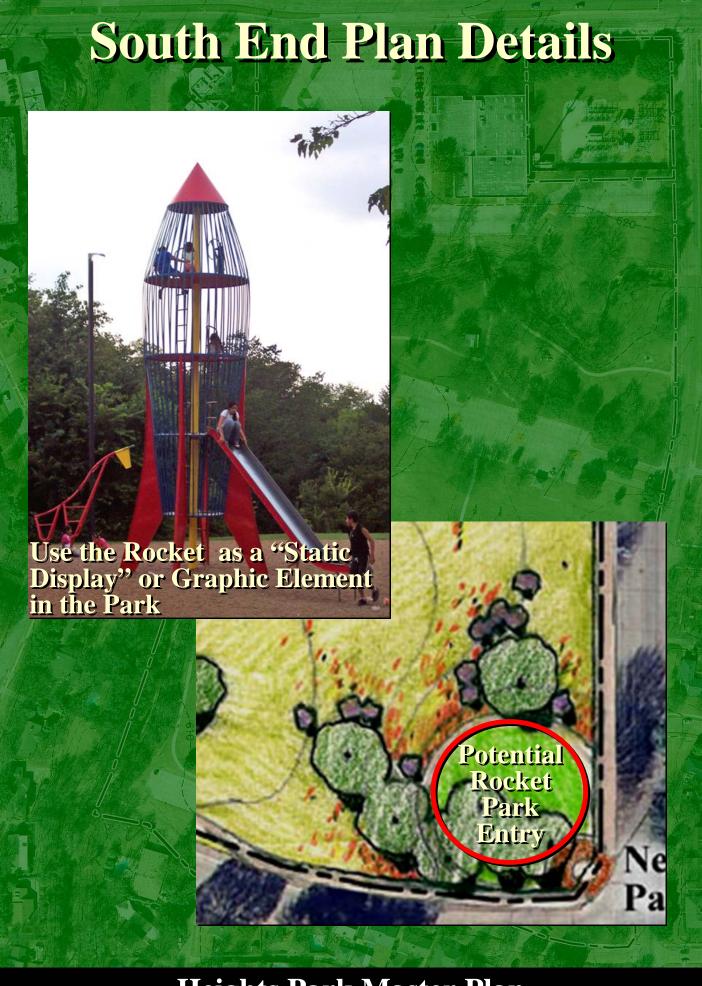
City Council Presentation June 16, 2008







Heights Park Master Plan



Heights Park Master Plan

Newman, Jackson, Bieberstein, Inc. Landscape Architecture + Urban Design



Heights Park Master Plan

Newman, Jackson, Bieberstein, Inc. Landscape Architecture + Urban Design

Alternative Rocket Locations







Heights Park Master Plan

Newman, Jackson, Bieberstein, Inc. Landscape Architecture + Urban Design



Heights Park Playground Task Force

Task Force Goal-

Evaluate all the playground equipment to determine future use for each piece at Heights Park.

Task Force Members-

Small group of interested citizens combined with Parks and Recreation Department staff who, through the course of the Heights Park Master Plan process, have demonstrated reasonable minds, care for safety, concern for historic preservation, appreciation for public art, understanding of the Heights Park playground culture.

Task Force to be led by Al Johnson, former Parks and Recreation Director and Executive Director of the Richardson Improvement Corporation

Task Force Members

- Al Johnson, Richardson Improvement Corporation, Executive Director, (Task Force Chairman).
- Marcia Chandler, Greenwood Hills Neighborhood Association President.
- Janet DePuy, Heights Park Neighborhood Association President (HPNA).
- Andrew Dugan, Landscape Architect, Richardson Resident.
- Ed Hassler, Texas Instruments (retired), Park Commissioner.
- Andrew Laska, Richardson Heights Homeowners Association Civic Chair.
- Stephen Springs, Architect, Park Commissioner, HPNA Board Member.
- Angie Wright, Landscape Architect, Richardson Resident.
- Michael Massey, Director of Parks and Recreation, City of Richardson.
- Roger Scott, Assistant Director of Parks and Recreation, City of Richardson.
- Bryan Hull, Superintendent of Park Planning, City of Richardson.



Heights Park Playground Task Force

Work Plan:

- February 21, 2008 Americans with Disabilities Act, Brian Bristow, Landscape Architect ADA expert.
- March 6, 2008 Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD: Frederick Turner; University of Texas at Dallas.
- March 20, 2008 Heights Park Playground Safety Audit, Steve Plumb, Playground Safety Consultant, Nationally recognized playground safety expert.
- April 3, 2008 Dynamic Playground Design, Terry Hendy, Playground Designer.

Heights Park Playground Task Force

Work Plan (continued):

- April 17, 2008 Metallurgical
 Opinion & Manufacturer's Opinion Mark M. Holland, Principal, Walter P.
 Moore Engineering; Don Hemingway,
 Executive Vice President, PlayPower
 (parent company of Miracle Recreation
 Equipment, builders of the rocket ship).
- May 1, 2008 Safety and Risk
 Management & Liability, Mike
 Lorenzo, MA, Vice President Regional Risk
 Control Manager, Hilb Rogal & Hobbs; Joe
 Gorfida, Assistant City Attorney, Nichols,
 Jackson, Hagar & Smith
- June 4, 2008 Task Force discussion and recommendations.

Americans with Disabilities Act, Brian Bristow, Landscape Architect ADA Expert

"No QUALIFIED person with a disability may be excluded from the programs, services, and activities provided by state and local governments."

The Department of Justice enforces three areas --

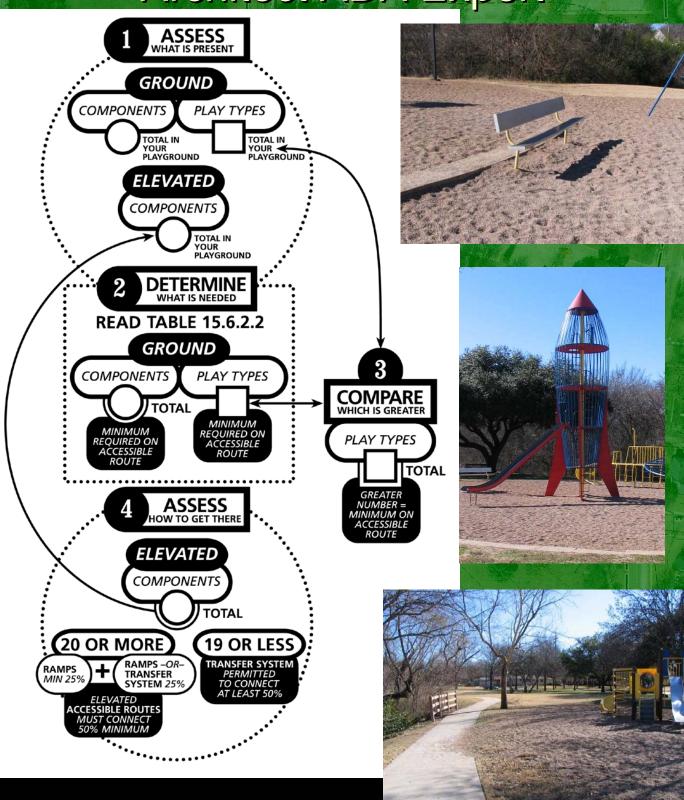
Title I: Employment practices

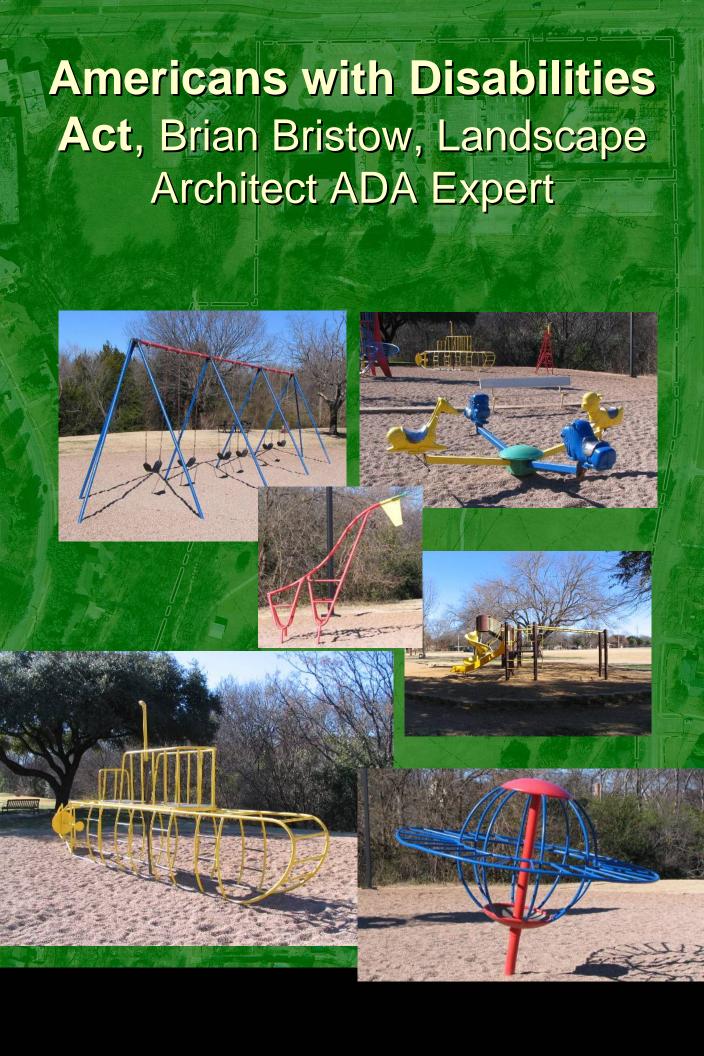
Title II: Programs, services, and activities of State and local government

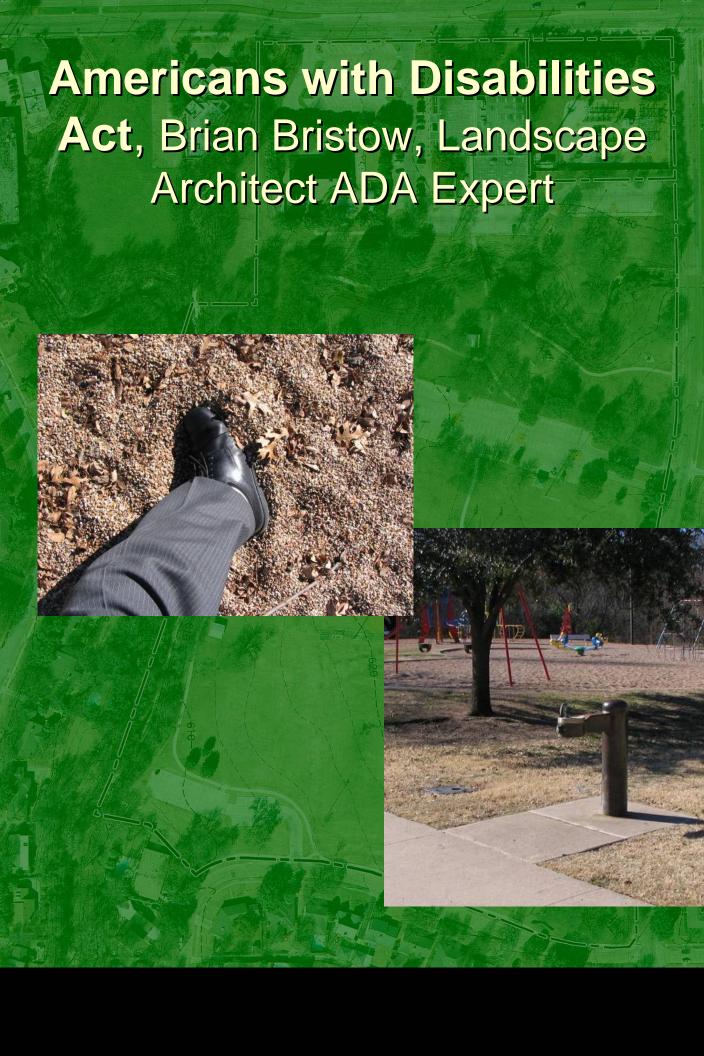
Title III: Public accommodations and commercial facilities



Americans with Disabilities Act, Brian Bristow, Landscape Architect ADA Expert







Americans with Disabilities Act, Brian Bristow, Landscape Architect ADA Expert

Do the play areas comply with the ADA Guidelines for Play Areas? ...<u>NO</u>

- No accessible entrance at play area boundary
- Internal boundaries are barriers
- No accessible surface gravel not compliant
- No accessible equipment
- No transfer stations at composite play structures
- Adult seating/benches not accessible
- Drinking fountains not compliant



Can the play areas be left as is? Technically YES...but...

- Any alteration requires compliance
- Difficulty of retrofitting equipment
- Citizen demands/complaints
- Safety (CPSC); liability
- Park aesthetics
- Kid-attraction: color, variety of play types, heat absorption/comfort
- Adult accommodation





Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD Frederick Turner University of Texas at Dallas







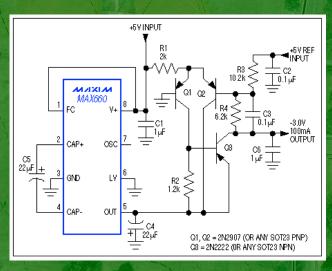


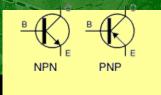
Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD Frederick Turner University of Texas at Dallas

What is the historical value of the atomic playground at Heights Park?

Sometimes it is difficult for us to see the historical value of an object, or set of objects, because it is too close to us in time. This is especially the case with modern architecture and design.





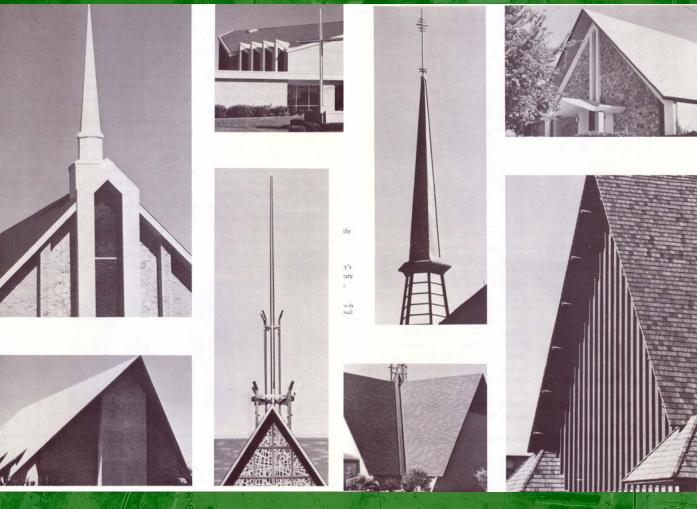


Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD Frederick Turner University of Texas at Dallas

"The playground pieces are iconic to this community. The Recreation Center of the park; it too is useful and iconic. Its architectural style is late modern, wherein the building is conceived as a mega structure in miniature."



Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD Frederick Turner University of Texas at Dallas



"Richardson is full of architectural icons from another era. These icons make Richardson a "home", create memories. People identify with those icons and it defines who we are as a community."

Historical, Cultural, and Aesthetic Considerations Charissa N. Terranova, PhD Frederick Turner University of Texas at Dallas

"The playground at Heights park is a Richardson icon. Preservation is important!"

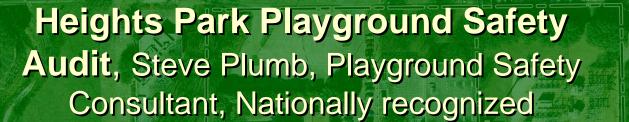
"The stories that are told about a boy and a girl who played there on a return visit for a man and wife and want to raise their kids here, are important. Don't let that place be destroyed."



Heights Park Playground Safety

Audit, Steve Plumb, Playground Safety
Consultant, Nationally recognized
playground safety expert.

- Background
 - Standard of Care
 - What's the Law
 - Playground Injury Overview
 - Basis for Playground Safety Standards
 - Primary Causes of Playground Injuries
 - Primary Causes of Playground Fatalities
 - Priority 1 Hazards
 - Children's Anthropometrics
- Audit Results Heights Playgrounds
- Conclusions and Recommendations



playground safety expert.

Handbook for Public Playground Safety

CPSC Publication No. 325

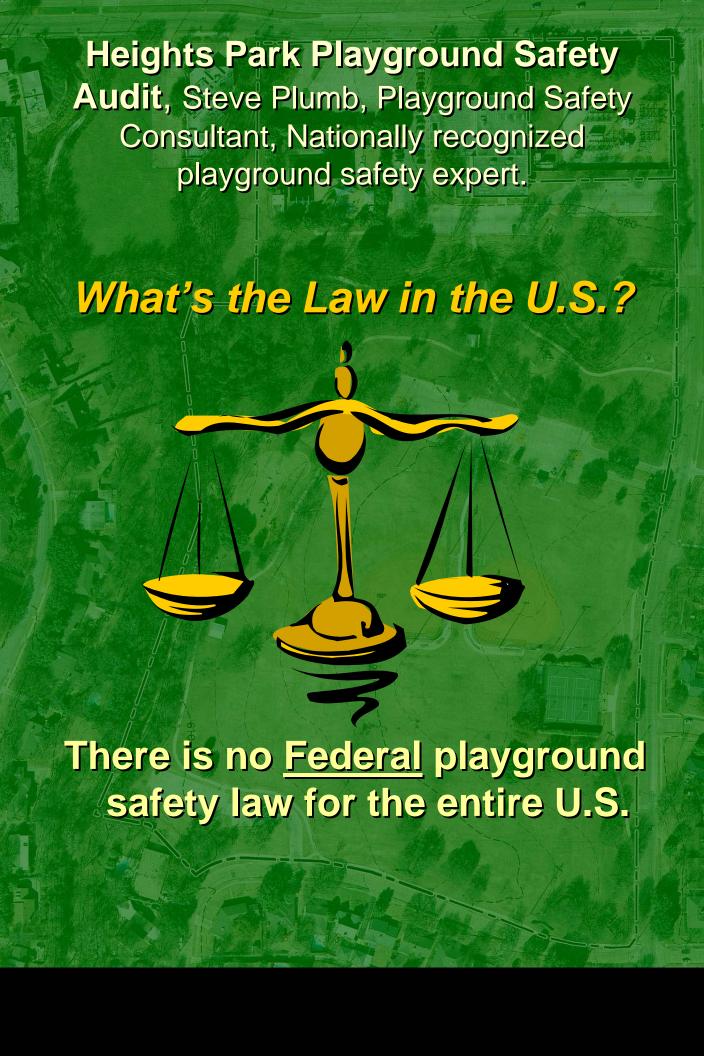
(1997 edition)

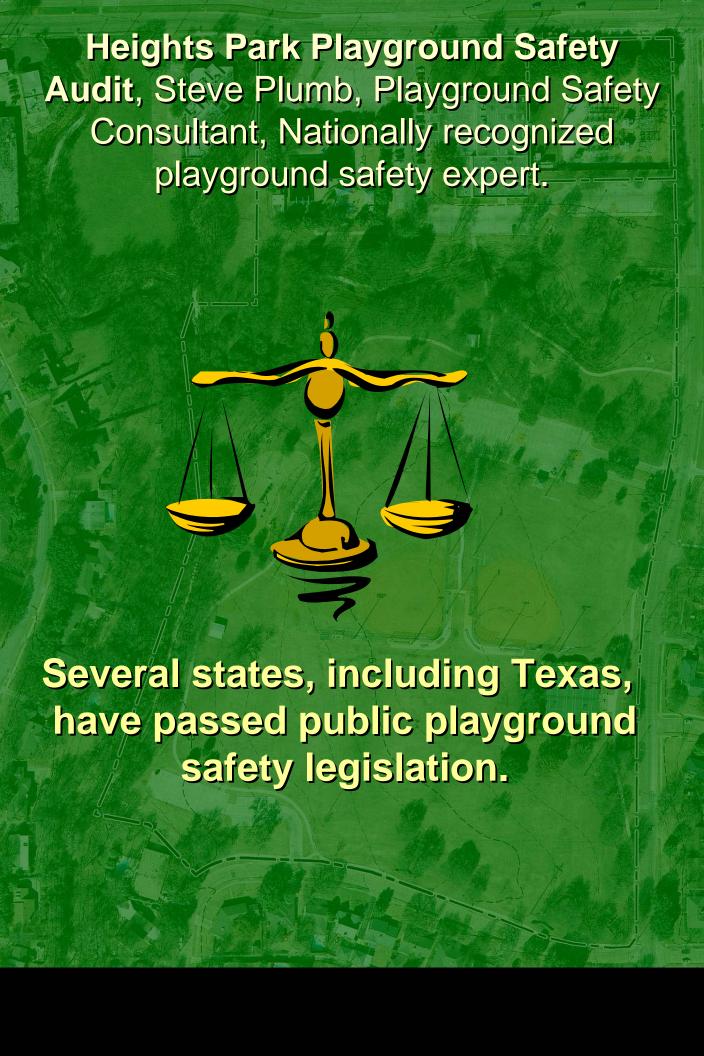
A Federal Guideline

Standard Consumer Safety Performance Specification for Playground Equipment for Public Use

ASTM Standard F1487-07

A National Voluntary Standard





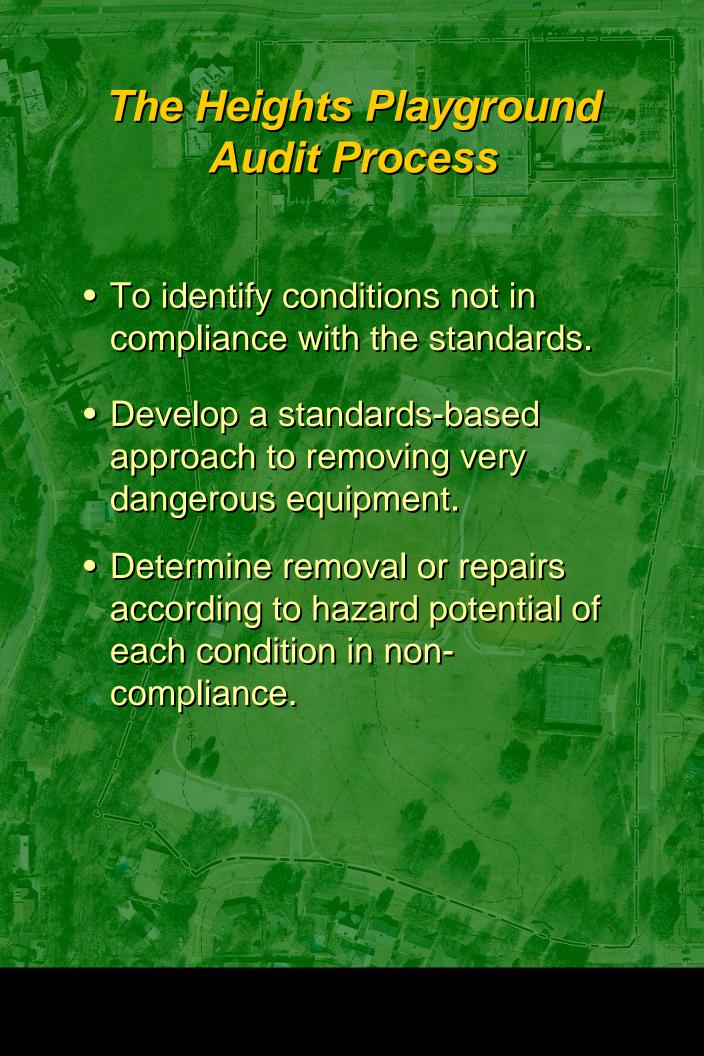
Heights Park Playground Safety Audit, Steve Plumb, Playground Safety Consultant, Nationally recognized playground safety expert.

What is a Priority 1 Hazard?



A readily accessible hazard that would typically cause an accident which would result in:

- Death
- Brain Damage
- Permanent Paralysis
- Loss of Vision
- Loss of Speech
- Loss of Limb
- Organ Destruction



Hazard Priority Rating Form

1. Permanent disability, loss of life or body part.

Condition should be corrected <u>immediately.</u>

2. Serious injury resulting in temporary disability.

Condition should be corrected as soon as possible.

- 3. Minor (non-disabling) injury.

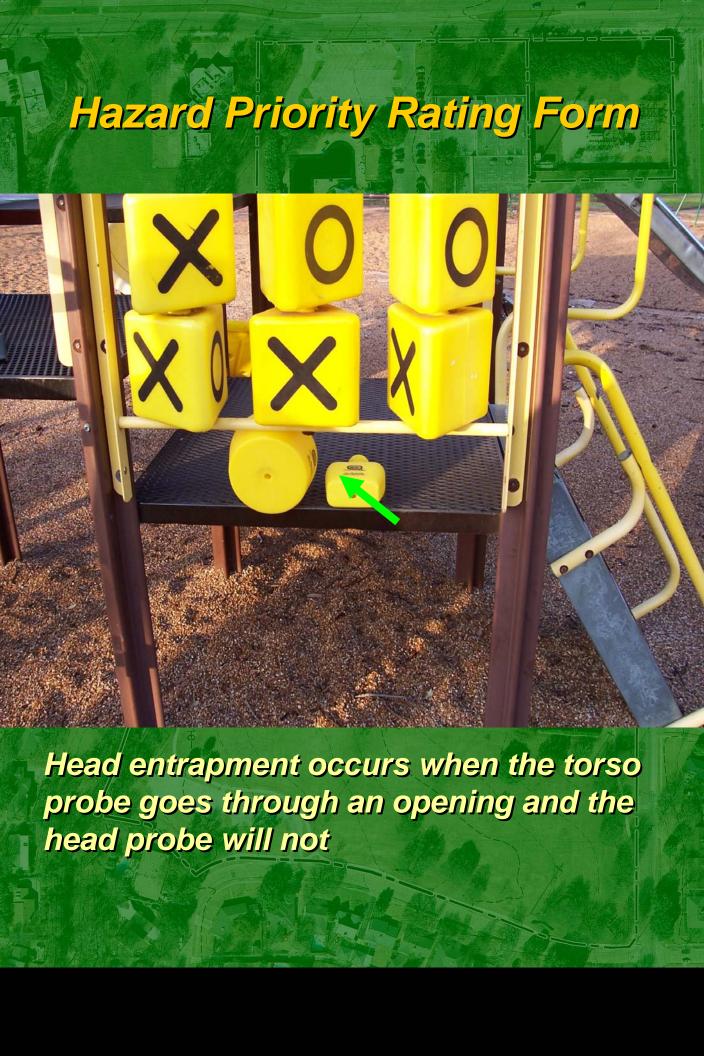
 Condition should be corrected *very*soon.
- 4. Existing condition is compliant.





Priority 1 Hazards...

Entanglement – hook at top of climber, bolts and rails w/in non-entanglement zone of straight slide, gap at tops of straight and high spiral slides, protruding bolt at top of sliding pole Head Entrapment – in all yellow barriers, below activity panels, in handrails



Hazard Priority Rating Form

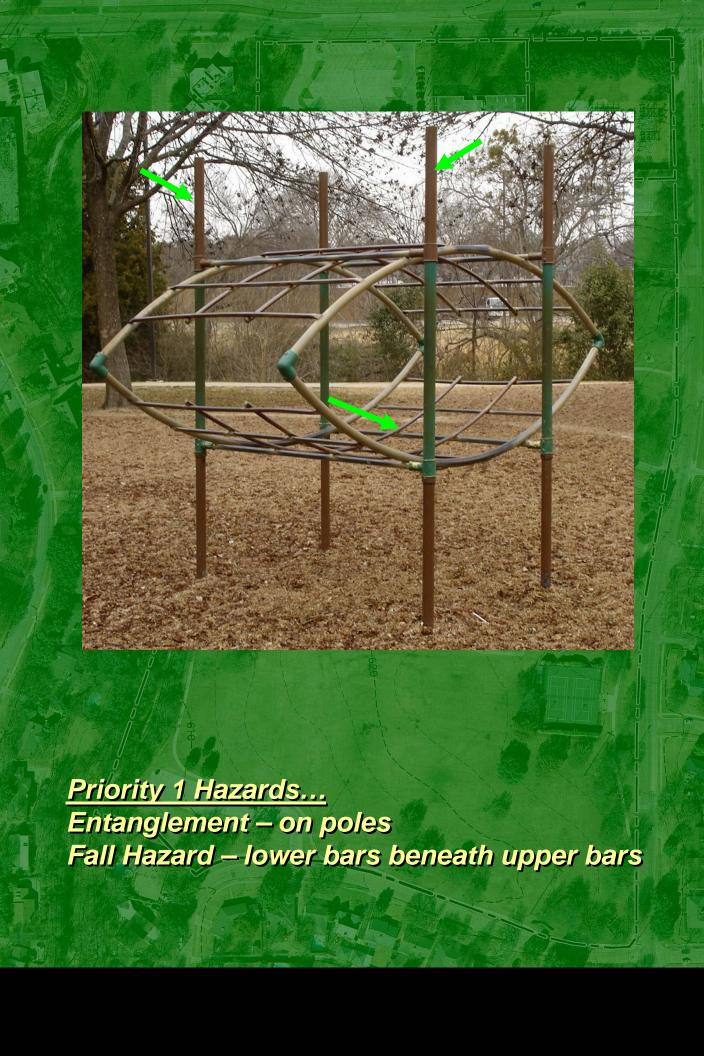


Priority 1 Hazards...

Entanglement – gaps at top of slide, rails in non-entanglement zone, bolts extend > .12" Head Entrapment – above replacement step Falls – no barrier at top of slide











<u>Priority 1 Hazards...</u> Impalement - on handholds and footrests

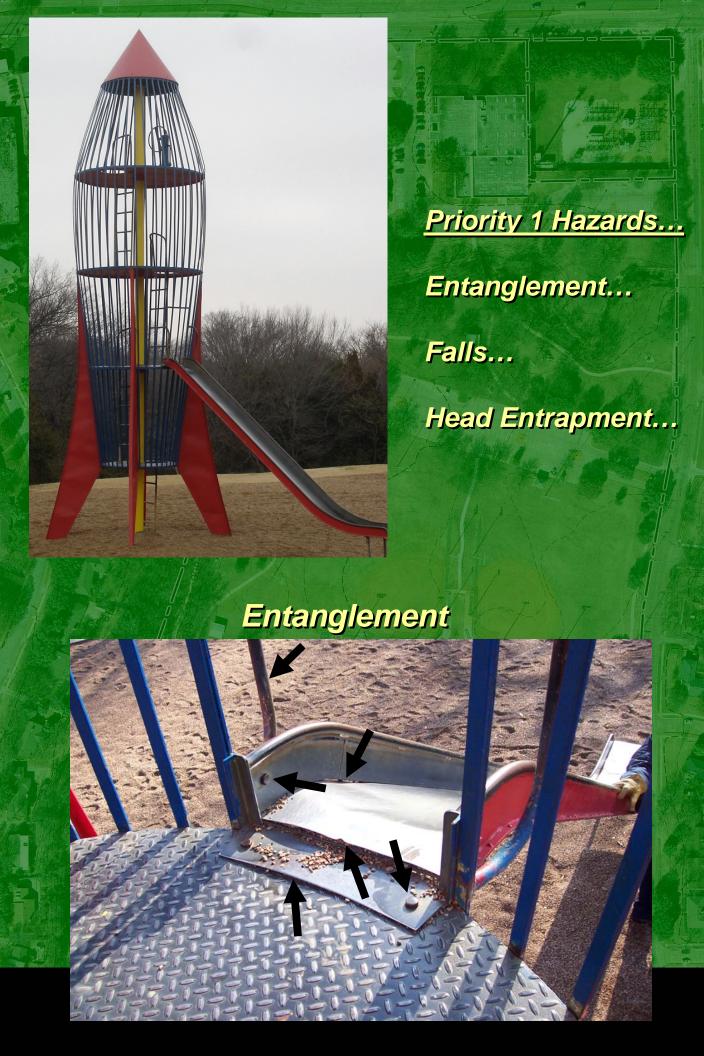


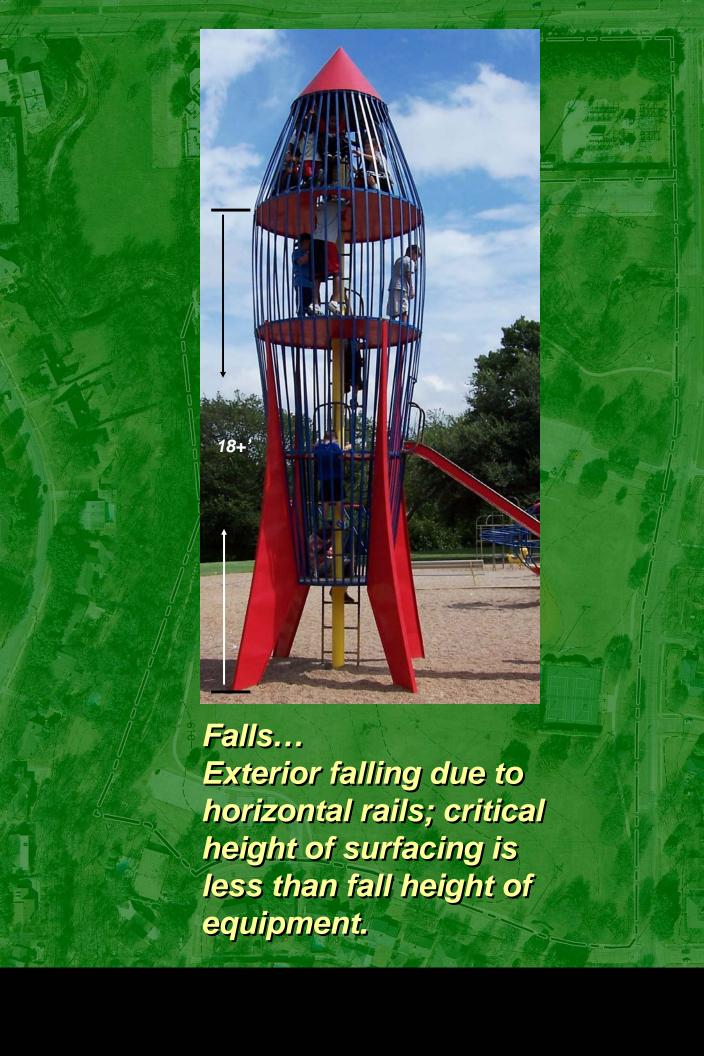
Priority 1 Hazards...

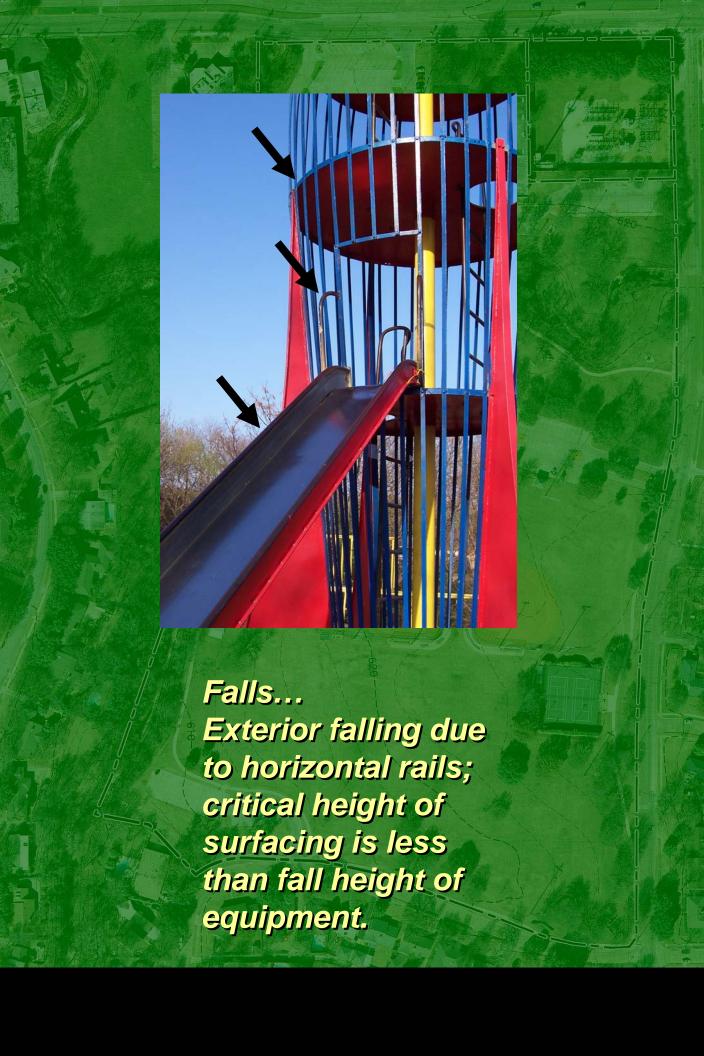
Falls – exposed concrete footer, concrete border in use zone













Steve Plumb, Playground Safety Consultant, Nationally recognized playground safety expert.

Safety Expert Conclusions and Recommendations

If East Playground is to remain...

- 1. Implement a schedule to address Priority 1 Hazards
- 2. Develop a plan to correct Priority 2 and 3 Hazards
- 3. Drop test surfacing for impact attenuation (Fall Ht 116") or
- 4. Replace surfacing w/ material that has Critical Ht > 116"
- 5. Accessibility requirements for surfacing will be triggered

If keeping equipment is not feasible...

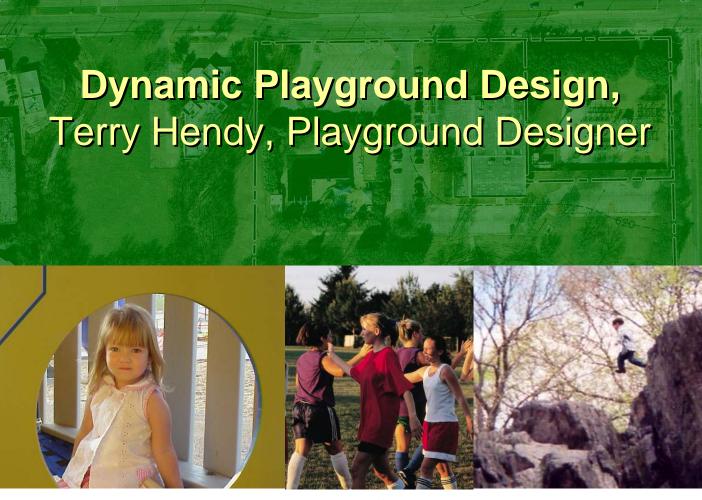
- 1. Replace w/ new equipment and surfacing
- 2. Equipment and surfacing must meet ADA/ABA Accessibility Guidelines

Steve Plumb, Playground Safety Consultant, Nationally recognized playground safety expert.

West Playground...

- 1. Rocket should not be kept as functioning equipment
- Radar Tower should not be kept as functioning equipment
- 2. Replace composite structure
- 3. Replace and relocate both swing sets
- 4. Keep Seesaw but modify handgrips and footrests
- 5. Relocate Jungle Gym, Keep Saturn Climber
- 6. Keep Submarine but modify entrapment hazard (simple)
- 7. Keep Giraffe but modify entrapment hazards (difficult)





Know the purpose of your playground *Are playgrounds a priority in your community?*

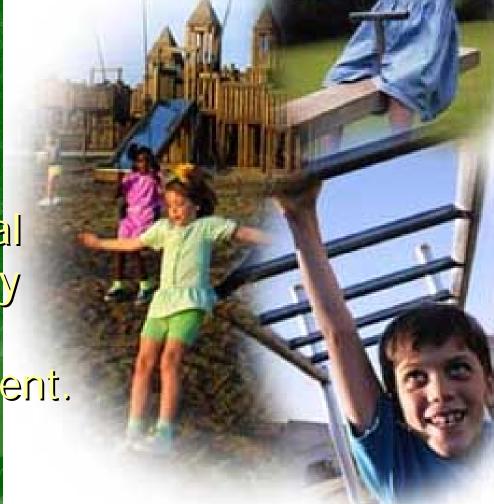


is essential for healthy

PLAY...

child

development.



As children grow and develop, their playgrounds must evolve to meet everchanging play needs and interests. Dr. Joe Frost

Heights Park Playground -

"Their unique presence and play opportunity has over the years placed them in the role of being icons for the community."

"It is understandable that the community would resist the removal of these icons due to sentimental value."



"The Rocket Ship in reality has very limited play value. It is basically a climber to a slide."

"The upper platforms provide a unique opportunity for a child to get quite high above the ground. I believe that it is this opportunity to perch and look out that is the primary attraction of the Rocket Ship."

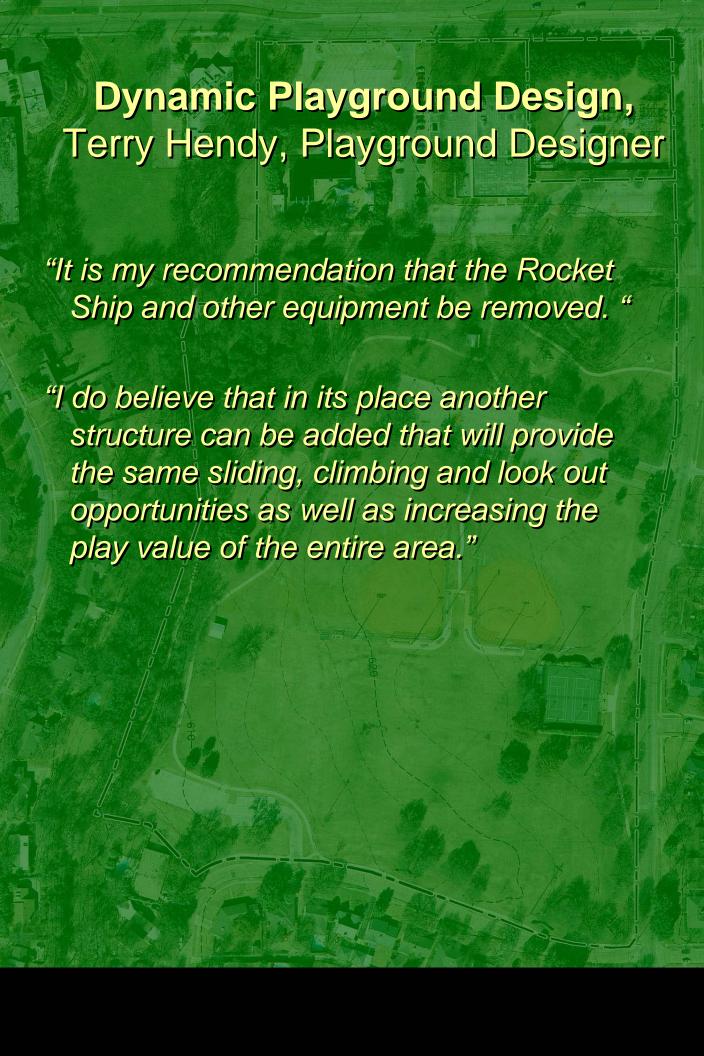
"It is natural and instinctive for children to seek out this kind of height."

"The Rocket Ship has many very hazardous conditions that present a great danger to young children."

"These hazards were quite accurately reflected in Mr. Plumb's report and presentation."

"The structure could possibly be modified but at great expense. Once you modify it you own the total liability for anything that happens on that structure."

"The other equipment such as the radar dish and solar climber can probably be modified to be compliant; however their projected life expectancy and limited play value are really not worth the expense and liability."



"It is my understanding that as part of the Master Plan for the park the pool and water play area will be expanded. "

"This water play area would provide a wonderful new home for the Rocket Ship. It is my recommendation that consideration be given to installing the Rocket Ship as the focal point of the new water play area."

"The ship could be modified to prevent entry into the structure. The structure could have water play elements attached to it so that water blasts out from the base of the rocket just like a cloud of smoke at take off."

Metallurgical Opinion

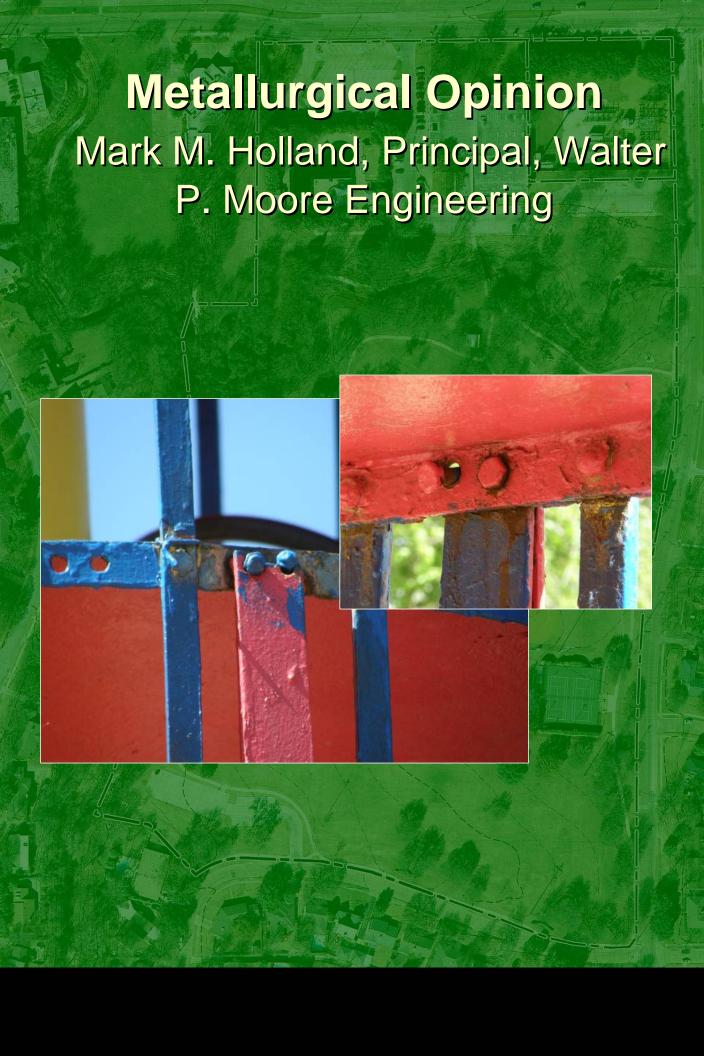
Mark M. Holland, Principal, Walter P. Moore Engineering

Heights Park Rocket Ship Visual Structural Assessment



Summary of Initial Findings

- Structure has experienced significant wear and tear and needs repair.
- Given the age and lack of detailed maintenance, thorough restoration is warranted.
- Observed some relatively minor but significant structural damage, for example, cracks and connection problem at top end of side fins.



Metallurgical Opinion

Mark M. Holland, Principal, Walter P. Moore Engineering

Recommendations

- Close structure until repairs are completed.
- Repairs:
 - -Replace top section of fins.
 - -Replace all bolts.
 - Replace all spliced and bent vertical bars.
- Excavate at base of fins to assess foundation connections and possible corrosion.
- Conduct thorough weld inspection and repair any deficient welds.

Manufacturer's Opinion Don Hemingway, Executive Vice President, PlayPower HAGS Represents many brands of Playground equipment. Promote safe, fun play for children. Perform a great deal of research and development for playgrounds.

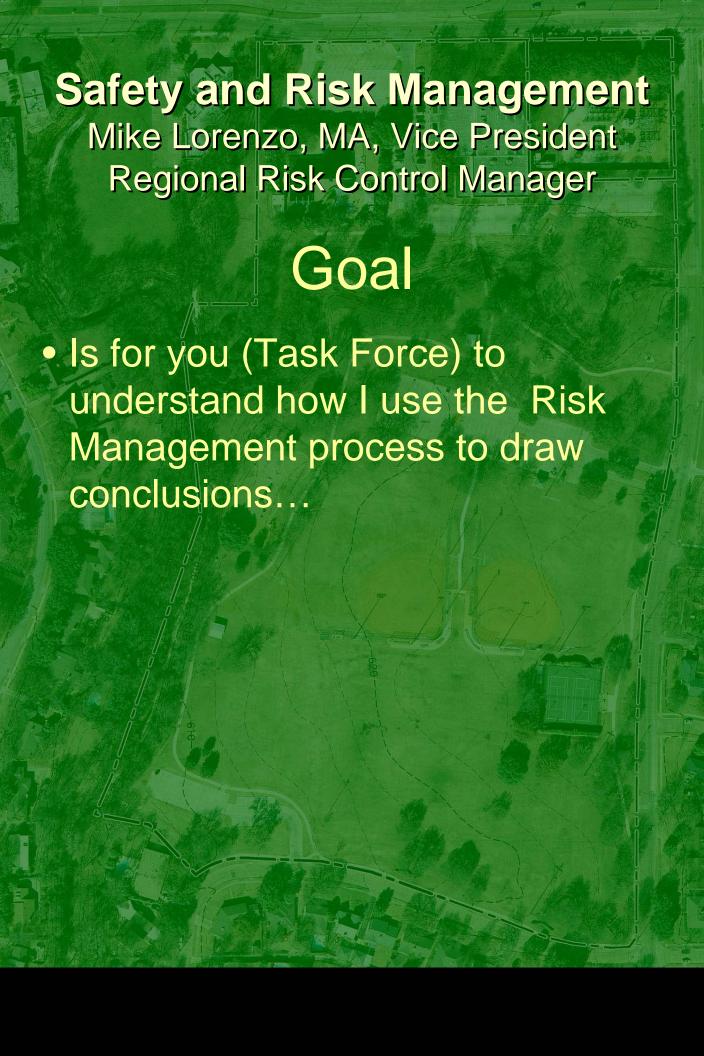
Manufacturer's Opinion

Don Hemingway, Executive Vice President, PlayPower

- Does not conform to existing playground standards
- Recommendation is to remove all unsafe playground equipment.
- Existing Rocket could be reused by:
 - Welding unit shut to be used as an Icon, but not a play piece
 - Adding skins to at least first 8-10' of exterior to prevent climbing of outside
 - –Reuse fins from the existing unit on a new unit ??

Manufacturer's Opinion Don Hemingway, Executive Vice President, PlayPower





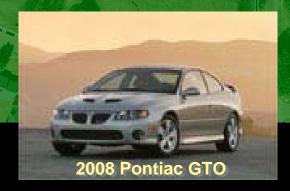
Safety and Risk Management

Mike Lorenzo, MA, Vice President Regional Risk Control Manager

Safety 1965/2008

- Crash-Avoidance Features
- Antilock brake system, four-wheel vented disc, with Electronic Brake Assist
- Brake/transmission shift interlock on models with automatic transmissions
- StabiliTrak vehicle stability enhancement system.
- Automatic Daytime Running Lamps
- Windshield defroster, washer, and multispeed wipers
- Inside day/night rearview mirror
- Power outside rearview mirrors
- Center high-mounted stop lamp
- Tinted glass
- Rear-window defogger
- Halogen headlamps and fog lamps
- Tires with built-in tread wear indicators
- Standard Tire Pressure Monitoring
- Tire Pressure Monitoring system (Does not apply to spare tire)
- Manual lap/shoulder safety belts for all seating positions
- Driver and front-passenger air bags
- Power window lockout
- Tires with built-in tread wear indicators
- Dual-stage frontal and side-impact, driver and right-front passenger and available head curtain side-impact,** front and rear outboard seating positions with Passenger Sensing System
- Safety belt cinch capability for child seats
- Child security door locks (rear)
- Security door locks and door retention components
- Laminated windshield glass, urethane-bonded
- LATCH Safety System (Lower Anchors and Top tethers for Children) for child safety seats
 in the 2 rear outboard seating positions only
- Side door beams









Mike Lorenzo, MA, Vice President Regional Risk Control Manager

Recommendations

- It is my professional opinion that :
 - Due to the age, condition, construction materials, and non compliance with a multitude of regulations, the space ship and other larger equipment be immediately closed, secured, and taken out of service.
 - The items can be used for decorations but they have reached the end of their life.

Liability

Joe Gorfida Jr., Assistant City Attorney, Nichols, Jackson, Hagar & Smith

TEXAS RECREATIONAL USE STATUTE

By Permitting a person to enter the premise for a recreational use, the city does not:

- (1) assure that the premises are safe for that purpose;
- (2) owe to the person a greater degree of care than is owed to a <u>trespasser</u>;
- (3) assume responsibility or incur liability for any injury to any individual or property caused by any act of the person to whom permission is granted.



Liability

Joe Gorfida Jr., Assistant City Attorney, Nichols, Jackson, Hagar & Smith

Recommendation

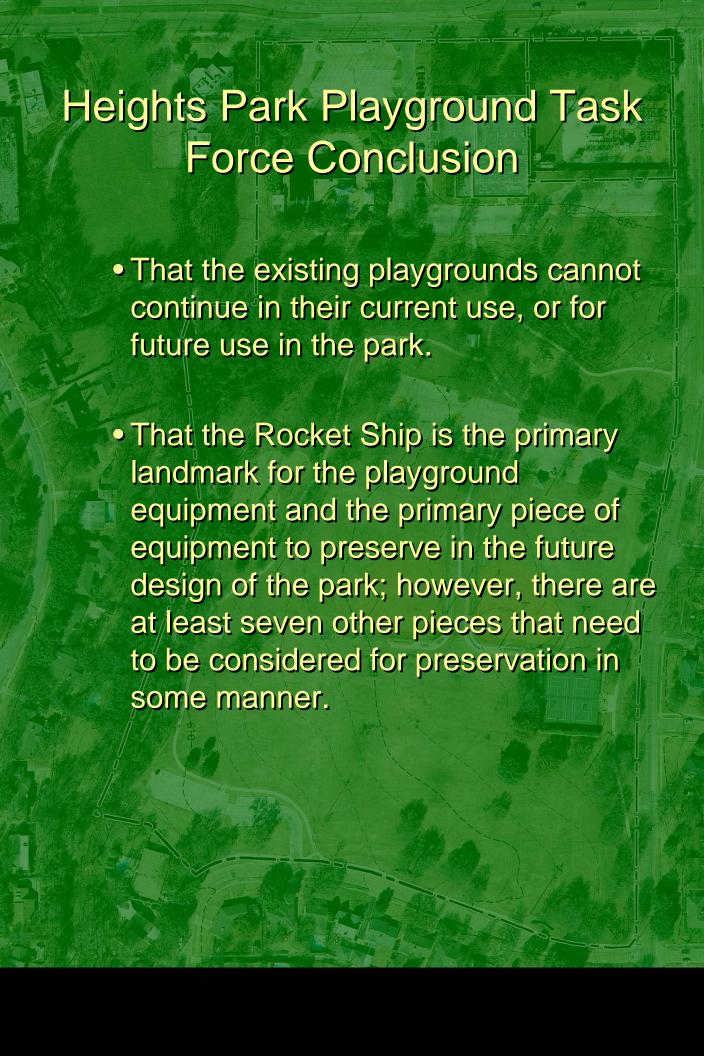
- Simply because the city may be immuned from liability, the mere existence of the Recreational Use Statute does not provide the rationale for allowing outdated playground equipment to exist within our playgrounds when the funds are available for replacement.
- Additionally, if a piece of equipment is deemed to be unsafe, that equipment should be removed regardless of the age or user attraction to the piece of equipment.

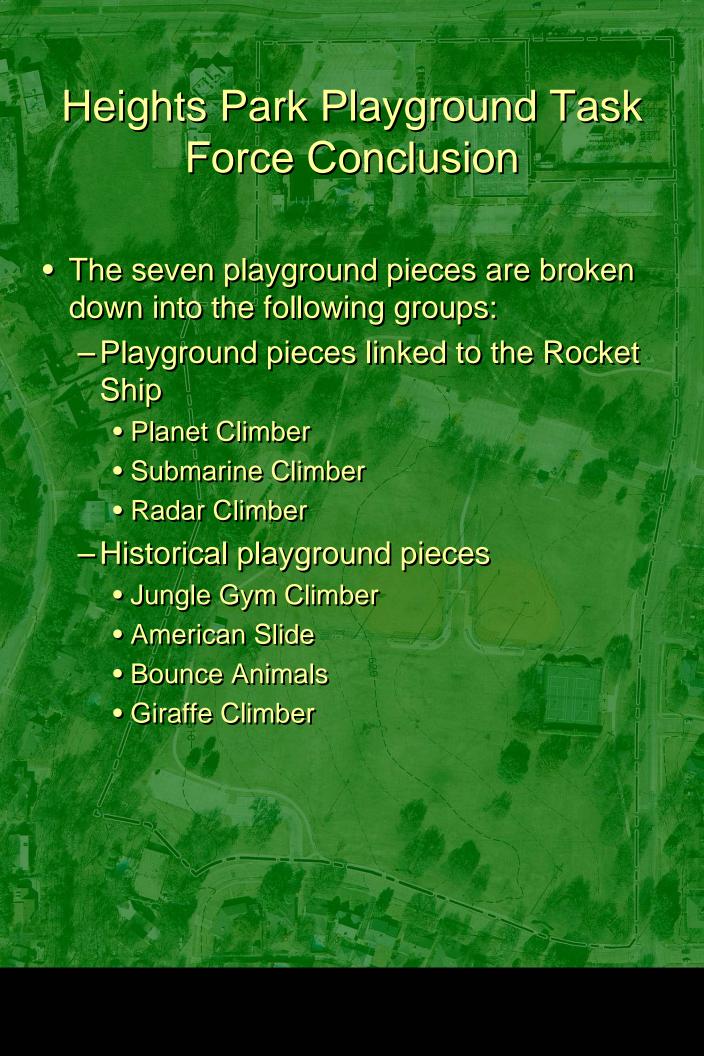


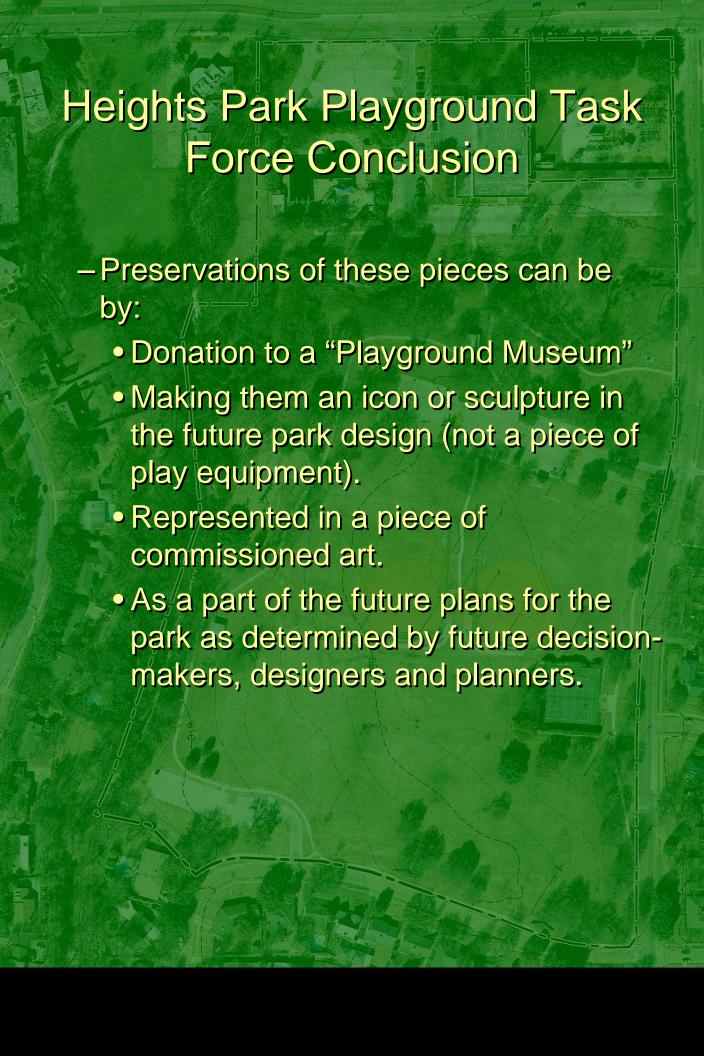
Heights Park Playground Task Force Conclusion

Basis for Task Force Recommendations:

- Information on playgrounds presented by the various experts on playground safety, accessibility, design, and legal/risk management.
- The view of the Task Force that the primary stakeholders in the existing and future playgrounds are:
 - The children who use Heights Park.
 - Secondary stakeholders are the parents of the children.
 - The tertiary stakeholders are former users of the playgrounds in Heights Park.

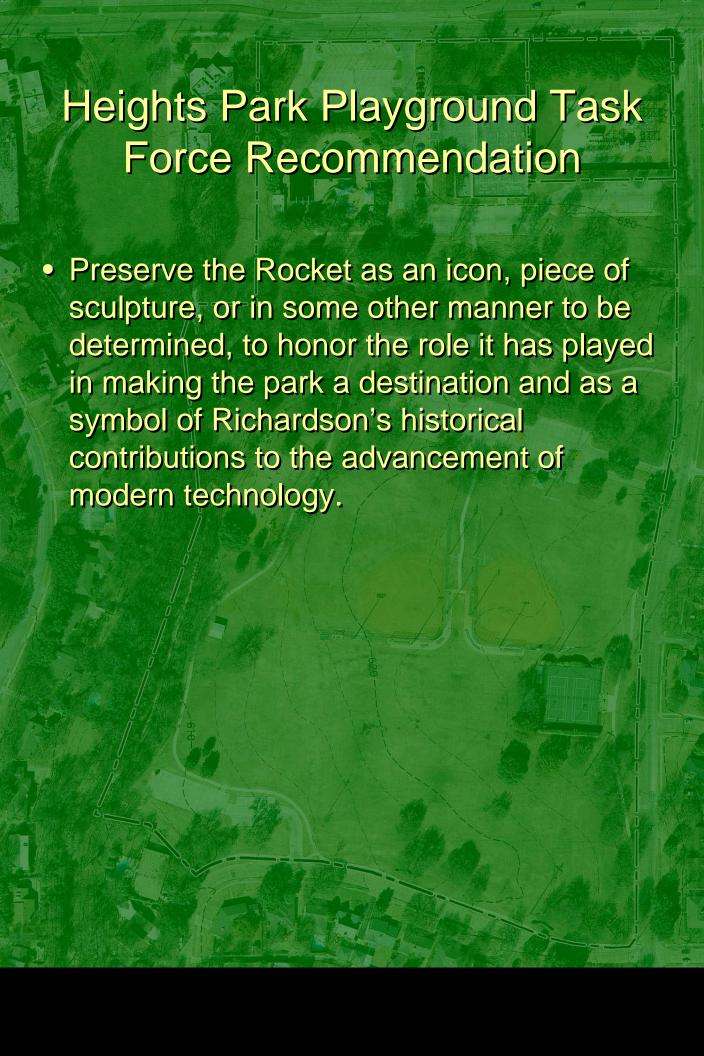


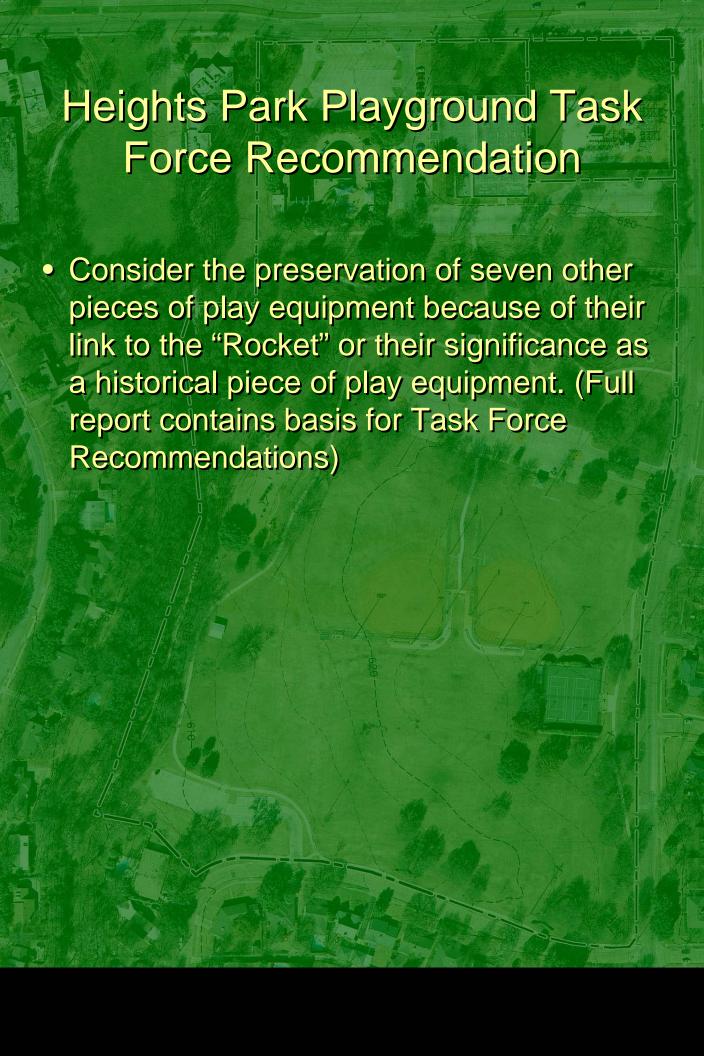


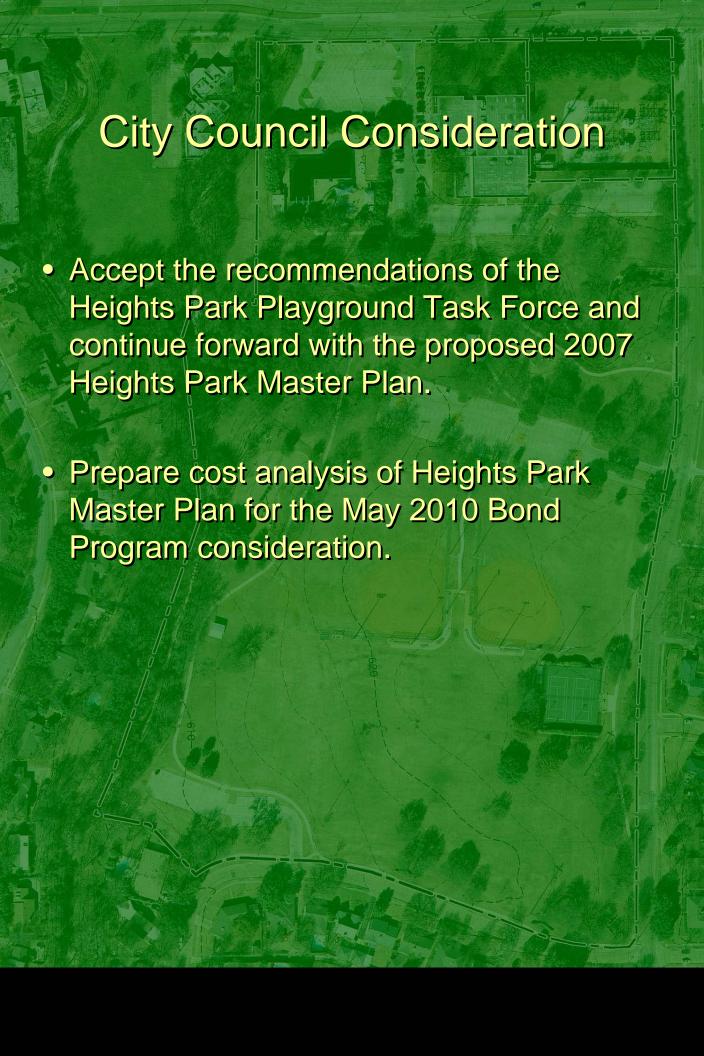




- Remove the existing playground equipment identified in the Playground Audit as soon as is practical.
- Replace the existing playgrounds with a playground(s) that has/have equal or greater play value and possesses the following features or play functions:
 - Elevated Play
 - Explorative Features
 - Imaginative Theme
 - Dynamic play
 - Challenging play
 - Artistic Quality







City Council Consideration

- Based on the analysis and safety audit, remove the playground equipment as specified and repair other playground pieces if possible.
- Begin design process and seek funding for replacement playground immediately.
- Follow the Heights Park Master Plan and task force recommendation to find the best opportunity to preserve and celebrate Richardson's history through preservation of the rocket ship as an iconic art form in the park and allow the master plan process to determine the use of the other seven playground pieces within the park.
- Communicate
 - HOA's (upon invitation)
 - HOA President's Meeting
 - Post the Task Force report on the internet