



THE CITY OF  
**EDINBURG**  
NOTICE TO BIDDERS

The City of Edinburg is soliciting sealed bids to be received by the City Secretary's Office located at 415 W. University Drive, Edinburg, Texas 78541. City of Edinburg normal business days are Monday through Friday between the hours of 8:00 a.m. to 5:00 p.m. and shall be closed on recognized holidays.

Bids will be received until **10:00 a.m. Central Time**, on **Tuesday, November 01, 2011**, shortly thereafter all submitted bids will be gathered and taken to the Edinburg City Hall Community Room, 1<sup>st</sup> Floor, to be publicly opened and read aloud. Any bid received after the closing time will not be accepted and will be returned to the bidder unopened. It is the responsibility of the bidder to see that any bid submitted shall have sufficient time to be received by the City Secretary's Office prior to the bid opening date and time. The receiving time in the City Secretary's Office will be the governing time for acceptability of the bids. Bids will not be accepted by telephone or facsimile machine. All bids must bear original signatures and figures. The Bid shall be for:

**BID NO. 2012-21**  
**PLAYSCAPE**

Bidders receiving a "NOTICE TO BIDDERS" and/or "REQUEST FOR PROPOSALS" notice in the mail or reading same in the newspaper are advised that the bidding documents can be downloaded from the City of Edinburg web page address: [www.cityofedinburg.com](http://www.cityofedinburg.com), or may obtain copies of same by contacting the office of:

LORENA FUENTES, PURCHASING AGENT, LOCATED AT 415 W. UNIVERSITY DRIVE, Edinburg, TX 78541 by calling (956) 388-8972 or by e-mailing your request to the following e-mail address: [lfuentes@cityofedinburg.com](mailto:lfuentes@cityofedinburg.com)

If you have any questions or require additional information regarding this bid, please contact Mr. Luis A. Rodriguez, Director of Parks & Recreation, at (956) 381-5631.

If Hand-delivering Bids: 415 West University Drive,  
c/o City Secretary Department (1<sup>st</sup> Floor)

If using Land Courier (i.e., FedEx, UPS): City of Edinburg  
c/o City Secretary  
415 West University Drive  
Edinburg, Texas 78541

If Mailing Bids: City of Edinburg  
c/o City Secretary  
P.O. Box 1079  
Edinburg, TX 78540-1079

The City of Edinburg reserves the right to refuse and reject any or all bids and to waive any or all formalities or technicalities and to accept the bid deemed most advantageous to the City, and hold the bids for a period of **60** days without taking action.

Bids must be submitted in an envelope sealed with tape and prominently marked on the lower left hand corner of the bid envelope with corresponding bid number and title.



**415 W. University Drive • P.O. Box 1079 • Edinburg, Texas 78540**  
**Phone (956) 388-8204 • Fax (956) 383-7111**



## CITY OF EDINBURG INSTRUCTIONS TO BIDDERS

### DEVIATION FROM SPECIFICATION

Please read your specifications/requirements thoroughly and be sure that the SERVICES offered comply with all specifications/requirements. Any variation from the specifications/requirements must be clearly indicated by letter attached to your bid referencing variations on a point-by-point basis. If no exceptions are noted, and you are the successful bidder, it will be required that the SERVICES be provided as specified.

### PURPOSE

1. The purpose of these specifications/requirements and bidding documents is for the purchase of a Playscape for the City of Edinburg Parks & Recreation Department.

2. The SERVICES to be furnished under this bid shall be as specified in these bid documents. All specifications/requirements shown are minimum. There is no intention to disqualify any bidder who can meet these specifications/requirements.

### SUBMITTAL OF BID

Bids will be submitted in sealed envelopes upon the blank bid form attached hereto. Each bid must be completely filled out and SUBMITTED IN ORIGINAL FORM, complete with all supporting documentation. Bids submitted by facsimile (fax) or electronically will **NOT** be accepted. Submittal of a bid in response to this solicitation for Bids constitutes an offer by the Bidder. Bids which do not comply with these specifications/requirements may be rejected at the option of the City. Bids must be filed with the City of Edinburg, before opening day and hour. No late Bids will be accepted. They will be returned to Bidder unopened (if properly identified).

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If using Land Courier (i.e., FedEx, UPS): 415 West University Drive, c/o City Secretary Department (1<sup>st</sup> Floor), Edinburg, Texas  
78541  
If Mailing Bids: P.O. Box 1079, Edinburg, TX 78540-1079

### PREPARATION OF BID

Bids **MUST** give full firm name and address of bidder, and be manually signed. Failure to do so will disqualify your bid. Person signing bid must show title or AUTHORITY TO BIND HIS/HER FIRM IN A CONTRACT.

Firm name and authorized signature must appear on each page that calls for this information. The legal status of the Respondent/Bidder whether corporation, partnership, or individual, shall also be stated in the bid. A corporation shall execute the bid by its duly authorized officers in accordance with its corporate by-laws and shall also list the state in which it is incorporated. A partnership Respondent/Bidder shall give full names and addresses of all partners. All partners shall execute the bid. Partnership and Individual Respondent/Bidder shall state in the bid the names and addresses of all persons with a vested interest therein. The place of residence of each Respondent/Bidder, or the office address in the case of a firm or company, with county and state and telephone number, shall be given after the signature.

### ALTERATIONS/AMENDMENTS TO BID

Bids **CANNOT** be altered or amended after opening time. Alterations made before opening time must be initialed by bidder guaranteeing authenticity. No bid may be withdrawn after opening time without acceptable reason in writing and only after approval by the City of Edinburg.

## **INSTRUCTIONS TO BIDDERS (Continued):**

### **SALES TAX**

State sales tax must not be included in the bid.

### **SUBSTITUTIONS**

No substitutions or cancellations will be permitted without written approval of City of Edinburg.

### **NO BID RESPONSE**

If unable to submit a bid, bidder should return inquiry giving reasons.

### **EXCEPTIONS**

Any additions, deletions, or variations from the following specifications/requirements must be noted. The bidder shall attach to his/her bid sheet a list of any exceptions to the specifications/requirements if unable to do so, on specification sheet.

### **DELIVERY**

Number of days required to deliver SERVICES after receiving order must be stated in the bid. Failure to so state will obligate bidder to complete service delivery within ONE day.

### **DELAY IN SERVICE DELIVERY**

When delay can be foreseen, Bidder shall give prior notice to City of Edinburg. Bidder must keep City of Edinburg advised at all times of status of order. Default in promised service delivery (without acceptable reasons) or failure to meet specifications/requirements, authorizes the City of Edinburg to purchase such SERVICES elsewhere and charge increase in cost to defaulting vendor. Acceptable reasons for delayed delivery are as follows: Acts of God (floods, tornadoes, hurricanes, etc.), acts of government, fire, strikes, war; Actions beyond the control of the successful bidder.

### **SERVICE DELIVERED PRICING**

Bids in units of quantity specified - extend and show total. In the event of discrepancies in extension, unit prices will govern. Bids subject to unlimited price increase will not be considered.

### **VALID BID TIME FRAME**

The City may hold bids 60 days after bid opening without taking action. BIDDERS shall be required to hold their Bids firm for the same period of time.

### **RIGHT TO REJECT/AWARD**

The City of Edinburg reserves the right to refuse and reject any or all Bids, and to waive any or all formalities or technicalities, and to make such awards of contract as may be deemed to be the best and most advantageous to the City of Edinburg.

### **MULTIPLE VENDOR CONTRACTS**

Bidders are advised that the City of Edinburg may award Service Contracts to multiple vendors based on low bid per item basis. All items specified on the "Bid Form" **must** reflect the individual unit prices. The City of Edinburg reserves the right to award all items individually or in any combination thereof.

## **INSTRUCTIONS TO BIDDERS (Continued):**

### **INDEMNIFICATION CLAUSE**

The Bidder agrees to indemnify and save harmless the City, from all suits and actions of every nature and description brought against them or any of them, for or on account of the use of patented appliances, products or processes, and he shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted upon request of the Purchasing Agent, as a necessary requirement in connection with the final estimate for payment in which such patented appliance, products or processes are used.

### **ADDENDA**

Bidder shall carefully examine the bid forms, specifications/requirements, and instructions to Bidders. Should the bidder find discrepancies in, or omissions from bid forms, specifications/requirements, or other documents, or should he/she be in doubt as to their meaning, he/she should at once notify the Purchasing Agent (Edinburg City Hall, 956-388-8972) and obtain clarification by addendum prior to submitting any bid. Explanations, interpretations, and supplemental instructions shall be in the form of written Addenda which shall become a part of the Contract documents. Said Addenda shall be mailed, e-mailed, hand delivered and/or faxed, to all prospective Bidders. All Addenda issued in respect to this project shall be considered official changes to the original bid documents. Verbal statements in response to inquiries and/or requests for explanations shall not be authoritative nor binding. It shall be the Bidder(s) responsibility to ensure that they have received all Addenda in respect to this project. Furthermore, Bidders are advised that they must recognize, comply with, and attach a signed copy of each Addendum which shall be made part of their Bid Submittal. Bidder(s) signature on Addenda shall be interpreted as the bidder's "recognition and compliance to" official changes as outlined by the City of Edinburg and as such are made part of the original solicitation documents. Failure of any bidder to receive any such addendum or interpretation shall not relieve such Bidder from its terms and requirements. Addendums are available online at [www.cityofedinburg.com](http://www.cityofedinburg.com).

### **PAYMENT**

The City of Edinburg will execute payment by mail in accordance with the State of Texas Pay Law after SERVICES have been provided and invoiced. No other method of payment will be considered.

### **SYNONYM**

Where in this bid package ITEMS OR SERVICES is used its meaning shall refer to the purchase of PLAYSCAPE as specified.

### **ASSIGNMENT**

Neither the Bidder's contract nor payment due to an awarded vendor may be assigned to a third party without the written approval of the Purchasing Department for the City of Edinburg.

### **INTERPRETATIONS**

Any questions concerning the conditions and/or specifications/requirements with regards to this solicitation for Bids shall be directed to the designated individuals as outlined in the Request for Bids. Such interpretations, which may affect the eventual outcome of this request for Bids, shall be furnished in writing to all prospective Bidders via Addendum. No interpretation shall be considered binding unless provided in writing by the City of Edinburg in accordance with paragraph entitled "Addenda".

## **INSTRUCTIONS TO BIDDERS (Continued):**

### **STATUTORY REQUIREMENTS**

It shall be the responsibility of the successful Bidder to comply with all applicable State & Federal laws, Executive Orders and Municipal Ordinances, and the Rules and Regulations of all authorities having jurisdiction over the work to be performed hereunder and such shall apply to the contract throughout, and that they will be deemed to be included in the contract as though written out in full in the contract documents. (To include issues related to health, environmental, and safety to name a few.)

### **BIDDER'S EMPLOYEES**

Neither the Bidder nor his/her employees engaged in fulfilling the terms and conditions of this Purchase Contract shall be considered employees of the City. The method and manner of performance of such undertakings shall be under the exclusive control of the vendor on contract. The City shall have the right of inspection of said undertakings at any time.

### **RIGHT TO WAIVE**

City of Edinburg reserves the right to waive or take exception to any part of these specifications/requirements when in the best interest of the City of Edinburg.

### **COOPERATIVE PRICING**

Bidders are advised that in addition to responding to our "local" solicitation for bids/Bids with Dealer pricing, vendors/contractors are encouraged to provide pricing on the below referenced items/products/services based on BuyBoard, TX-MAS, H-GAC and/or any other State of Texas recognized and approved cooperative which has complied with the bidding requirements for the State of Texas. If bidding other than or in addition to "dealer" pricing, kindly duplicate the bid forms for each bid being provided from a cooperative contract. Any and all applicable fees must be included. All cooperative pricing must be submitted on or before bid opening date and hour.

### **TIME ALLOWED FOR ACTION TAKEN**

The City of Edinburg may hold bids **60** days after the opening of Bids without taking action. Bidders are required to hold their Bids firm for same period of time.

### **PREPARATION OF BID**

The City of Edinburg shall not be held liable for any costs incurred by any bidder for work performed in the preparation of and production of a bid or for any work performed prior to execution of contract.

### **CONFIDENTIAL INFORMATION**

Any information deemed to be confidential by the bidder should be clearly noted on the pages where confidential information is contained; however, the City cannot guarantee that it will not be compelled to disclose all or part of any public record under Texas Public Information Act, since information deemed to be confidential by the bidder may not be considered confidential under Texas Law, or pursuant to a Court order.

### **VERBAL THREATS**

Any threats made to any employee of the City, be it verbal or written, to discontinue the providing of item/material/services for whatever reason and/or reasons shall be considered a breach of contract and the City will immediately sever the contract with the Vendor on contract.

### **MATHEMATICAL ERRORS**

In the event that mathematical errors exist in any bid, unit prices/rates -v- totals, unit prices/rates will govern.

## **INSTRUCTIONS TO BIDDERS (Continued):**

### **AUDIT**

The City of Edinburg reserves the right to audit the vendor's books and records relating to the performance of this contract. The City of Edinburg, at its own expense, shall have the right at all reasonable times during normal business hours and upon at least twenty-four (24) hours' advance notice, to audit, to examine, and to make copies of or extracts from the books of account and records maintained by the vendor(s) with respect to the Supply/Service and/or Purchase Contract. If such audit shall disclose overpayment by City to vendor, written notice of such overpayment shall be provided to the vendor and the amount of overpayment shall be promptly reimbursed by vendor to the City. In the event any such overpayment is not paid within ten (10) business days after receipt of such notice, the unpaid amount of such overpayment shall bear interest at the rate of one percent (1%) per month from the date of such notice until paid.

### **PAST PERFORMANCE**

Vendor's past performance shall be taken into consideration in the evaluation and award of Service Contract for the Purchase of SERVICES.

### **JURISDICTION**

Contract(s) executed as part of this solicitation shall be subject to and governed under the laws of the State of Texas. Any and all obligations and payments are due and performable and payable in Hidalgo County, Texas.

### **VENUE**

The parties agree that venue for purposes of any and all lawsuits, cause of action, arbitration, and/or any other dispute(s) shall be in Hidalgo County, Texas.

### **CONFLICT OF INTEREST**

#### **CHAPTER 176 OF THE TEXAS LOCAL GOVERNMENT CODE**

Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor or person considering doing business with a local government entity disclose in the Questionnaire Form CIQ, the vendor or person's affiliation or business relationship that might cause a conflict of interest with a local government entity. By law, this questionnaire must be filed with the records administrator of the City of Edinburg not later than the 7<sup>th</sup> business day after the date the person becomes aware of facts that require the statement be filed. See Section 176.006, Local Government Code. A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor. For more information or to obtain Questionnaire CIQ go to the Texas Ethics Commission web page at [www.ethics.state.tx.us/forms/CIQ.pdf](http://www.ethics.state.tx.us/forms/CIQ.pdf).

**IF YOU HAVE ANY QUESTIONS ABOUT COMPLIANCE, PLEASE CONSULT YOUR OWN LEGAL COUNSEL. COMPLIANCE IS THE INDIVIDUAL RESPONSIBILITY OF EACH PERSON OR AGENT OF A PERSON WHO IS SUBJECT TO THE FILING REQUIREMENT. AN OFFENSE UNDER CHAPTER 176 IS A CLASS "C" MISDEMEANOR.**

### **AWARD**

For purposes of this project, award will be contingent on approval of budget.

### **SPECIAL CIRCUMSTANCES**

In the event that the City of Edinburg has an immediate need for a particular service(s) that is/are on contract and the successful vendor on contract is not able to meet the special service delivery needs of the City of Edinburg, the City of Edinburg reserves the right to purchase such services elsewhere to fulfill its' immediate need.

## **INSTRUCTIONS TO BIDDERS (Continued):**

### **TERMINATION OF CONTRACT**

The City of Edinburg reserves the right to terminate the contract if, in the opinion of the City of Edinburg, the successful vendor's performance is not acceptable, if the City is being repeatedly over charged, improperly charged, no funds are available, or if the City wishes, without cause, to discontinue this contract. Termination will be in written form allowing a 30-day notice. The bidder shall be afforded the same right to terminate this contract in the same manner.

**CITY OF EDINBURG  
REQUEST FOR BIDS FOR  
PLAYSCAPE**

**BID NO. 2012-21**

**BID OPENING DATE: November 01, 2011 at 10:00 a.m.**

It is the intent of this Request for Bids to describe and ultimately make it possible for the City of Edinburg to purchase the below mentioned Playscape.

**GENERAL REQUIREMENTS AND AGREEMENT FOR PURCHASE PLAYSCAPE:**

You are invited to submit a sealed bid for the purchase of a Playscape as requested by the City of Edinburg Parks & Recreation Department.

The City of Edinburg Parks & Recreation Department is seeking bids from qualified companies for the purchase of one (1) playscape equal or better than the attached specifications. The specifications attached below are minimum requirements and are intended to govern, in general, the size and material desired. The City of Edinburg reserves the right to evaluate variations from these specifications. Playscape will be installed by City of Edinburg staff, however; it is requested that vendor provide installation of rubber surfacing. Bid price should included installation of such.

**(see attachments)**

**INSURANCE REQUIREMENTS**

Staff may waive insurance requirements for contracts \$0 - \$4,999.99, including but not limited to contracts for food, materials, supplies, and construction. Workers' Compensation in amounts which satisfy statutory coverage shall be required for construction projects.

The following insurance requirements will be included in all City contracts of \$5,000 - \$14,999.99. In contracts not involving building and construction projects, as that activity is defined in TEX. LABOR CODE §406.096, contractors may obtain alternative form of worker accident insurance with minimum limits of liability of \$100,000 per claim.

Minimum Insurance Requirements	
Type of Coverage	Limits of Liability
Worker's Compensation	Statutory Coverage
Comprehensive General Liability (City named as additional insured) Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits

The following insurance requirements will be included in all City contracts of \$15,000 or more.

- (1) The successful bidder will be required to carry the following insurance coverage and limits of coverage, as well as list the City as an additional insured to liability coverage as requested by the City. In addition, the successful bidder shall provide the City with evidence of coverage and furnish acceptable proof of payment of insurance premiums.
- (2) The successful bidder will be required to secure and/or have insurance coverage in force with an admitted property and casualty insurance company licensed by the State of Texas to conduct business in the State of Texas.
- (3) In contracts not involving building and construction projects, as that activity is defined in TEX. LABOR CODE §406.096, contractors may obtain alternative form of worker accident insurance with minimum limits of liability of \$100,000 per claim.

**REQUEST FOR BIDS FOR PLAYScape (Continued):**

<b>Minimum Insurance Requirements</b>	
<b>Type of Coverage</b>	<b>Limits of Liability</b>
Worker's Compensation	Statutory Coverage
Employer's Liability	Bodily Injury by Accident: \$100,000 each accident  Bodily Injury by Disease: \$100,000 each employee/\$500,000 policy limit
Comprehensive General Liability Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits
Comprehensive Auto Liability Bodily Injury	\$100,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits
City's Protective Liability Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits

**CITY OF EDINBURG  
BID FORM FOR  
PLAYSCAPE**

BID NO. 2012-21

BID OPENING DATE: November 01, 2011 at 10:00 a.m.

I/We submit the following bid in ORIGINAL FORM for Purchase of Playscape according to City of Edinburg requirements, less tax:

**NOTE:** In addition to responding to our "local" solicitation for bids/proposals vendors/contractors are encouraged to provide pricing on the above referenced items/products/services based on Buyboard, H-GAC, TXMAS and/or any other State of Texas recognized and approved cooperative which has complied with the bidding requirements for the State of Texas (any and all applicable fees must be included). All cooperative pricing must be submitted on or before bid/proposal opening date and hour.

<b><u>CHECK ONE</u></b>	
<input type="checkbox"/> BUYBOARD	<input type="checkbox"/> H-GAC
<input type="checkbox"/> TX DIR	<input type="checkbox"/> TFC
<input type="checkbox"/> TXMAS	<input type="checkbox"/> OTHER _____
<input type="checkbox"/> DEALER/LOCAL	<b>Specify</b>
CONTRACT NUMBER: _____ (if applicable)      COMMODITY NUMBER: _____ (if applicable)	

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	1 L.S.	PLAYSCAPE		\$ _____
				\$ _____
				\$ _____
		TIME OF DELIVERY IN _____ DAYS		

**BID FORM FOR PLAYSCAPE (Continued):**

*All Addenda issued in respect to this project shall be considered official changes to the original bidding documents. It shall be the Bidder(s) responsibility to ensure that all Addenda have been received. Furthermore, bidders are advised that they must recognize, comply with, and attach a signed copy of each Addendum which shall be made part of their Bid Submittal. Bidder(s) signature on Addenda shall be interpreted as the vendor's "recognition and compliance to" official changes as outlined by the City of Edinburg and as such are made part of the original bidding documents.*

Respectfully submitted this \_\_\_\_ day of \_\_\_\_\_, 2011.

SIGNATURE: \_\_\_\_\_

TYPE/PRINT NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

FAX NO.: \_\_\_\_\_

EMAIL: \_\_\_\_\_

• **GENERAL SPECIFICATIONS**

**SAFETY STANDARDS & GUIDELINES** All public playground equipment supplied shall meet all applicable provisions of the current "Handbook for Public Playground Safety" published by the Consumer Product Safety Commission (CPSC), and of ASTM F1487-01 "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use," published by the American Society for Testing and Materials (ASTM). Products bearing the certification seal of the International Play Equipment Manufacturers Association (IPEMA) have received written validation of compliance with ASTM F1487-01. All products shall also be certified compliant to CPSIA 2008 legislation concerning lead and heavy metal content in consumer products.

**QUALITY SYSTEM CERTIFICATION** The manufacturer's quality system is certified to ISO 9001 since December 1998. Additionally, manufacturer shall be certified to ISO 14001.

**PRODUCT CHANGES** At Miracle Recreation Equipment Company, we strive for the utmost in quality and safety in our entire product line. Therefore, in order to honor this commitment to you, our customers, we reserve the right to make changes on any product released and/or published in our annual catalog and other promotional or technical literature.

**WARRANTY**

1. **LIMITED ONE HUNDRED (100) YEAR WARRANTY** against structural failure due to weather corrosion or defects in materials and workmanship on aluminum deck posts, steel deck posts, the VersaLok (R) fastening system and associated fastening hardware.
2. **LIMITED FIFTEEN (15) YEAR WARRANTY** against structural failure due to weather corrosion or defects in materials and workmanship on steel support legs and Mira-Therm (TM) 2 on MEGA TOWER (R), TOTS' CHOICE (R), KIDS' CHOICE (R), CENTER STAGE (R), NEXUS (R) and Boulder Ridge (R) Rock Wall; on playsystem steel components including railings, rungs, and rigid climbers; and Rock-ite (R).
3. **LIMITED TEN (10) YEAR WARRANTY** against structural failure due to weather corrosion or defects in materials and workmanship on all PlayCover (R) steel frames.
4. **LIMITED TEN (10) YEAR WARRANTY** on Play Terrain (R) Rubber Mulch safety surfacing against total color loss and attenuation performance. Please contact your local representative for more information.
5. **LIMITED EIGHT (8) YEAR WARRANTY** on Play Terrain (R) Synthetic Turf safety surfacing for attenuation performance and appearance. Please contact your local representative for more information.
6. **LIMITED FIVE (5) YEAR WARRANTY** against rot, UV deterioration and defects in materials and workmanship on all PlayCover (R) fabric (NOTE EXCEPTION - shades of red carry LIMITED THREE (3) YEAR WARRANTY).
7. **LIMITED FIVE (5) YEAR WARRANTY** against structural failure due to defects in materials or workmanship on Kidrox (R) Climbing Rocks.
8. **LIMITED FIVE (5) YEAR WARRANTY** against degradation of design loading capabilities on all Webscapes (R) Net Climbers and Nexus (R) Nets (NOTE EXCEPTION - Webscapes (R) Net Climbers and Nexus (R) Nets carry a LIMITED ONE (1) YEAR WARRANTY against defects in materials and workmanship.
9. **LIMITED THREE (3) YEAR WARRANTY** against structural failure due to defects in materials or workmanship on Trim Timbers (TM).
10. **LIMITED ONE (1) YEAR WARRANTY** against failure due to defects in materials or workmanship on Slashproof Swing Seats and 360° Bucket Tot Seats for Swings.

11. **LIMITED ONE (1) YEAR WARRANTY** against structural failure due to defects in materials and workmanship on the following products and components: TODDLERS' CHOICE (R) main support materials and decks; pool slide support structures, stairways, landings and railings; and bleachers.

12. **LIMITED ONE (1) YEAR WARRANTY** against structural failure due to defects in materials and workmanship on all MiracleTech (TM) Security products, including ParkWatch (TM), SonicScreen (TM) and SiteBrite (TM).

13. **LIMITED ONE (1) YEAR WARRANTY** against structural failure due to defects in materials and workmanship for all products and components that are not specifically listed above, including, without limitation, all moving parts, such as swing hangers, swivels, chains, whirls, trolleys and flexible climbers.

- **GENERAL PLAYSYSTEM NOTES:** This seven sided triple-level MegaTower features in-the-wheelchair access to the lowest (2' high) level of the tower in addition to a separate 1' high deck. Mega Tower features vertically-stacked platforms at 2', 8' and 14' above finished grade. The 14' high level is fully enclosed and not considered an exterior climbing surface from which a fall may occur. Stairs between decks shall contain enclosure-style railings. Playsystem shall exceed the guidelines of ADA for play areas regarding elevated and ground level component components. Wheelchair accessible platforms shall contain no open sides that would allow a chair to fall off the platform and will also prevent inadvertent falls by all users of the structure. Perforated metal roofs are provided in 5, 6 and 7 sided configurations in this design for variety of shade. The 1' high platform contains a bell, chime panel and drum panel to create an accessible music center on the structure. All slides feature integrated sit-down canopy for added safety. All metal gripping components feature Gator Grip embossed three dimensional texture for safer climbing.

- **KIDS' CHOICE MIRA-THERM2 DECKS:** The deck models in the 714-50X-9 series shall consist of a (4) sided square deck: Model # 714-502-9, with a deck top surface area of 16 sq. ft. (2304 sq. in.); (4) sided (3) opening half hex decks: Model #s 714-503-9, with a deck top surface area of 21 sq. ft. (3024 sq. in.); a (5) sided pentagon deck: Model # 714-512-9, with a deck top surface area of 23.8 sq. ft. (3427 sq. in.); and a (7) sided heptagon deck: Model # 714-517-9, with a deck top surface area of 55 sq. ft. (7,920 sq. in.).

Deck shape and height shall be: (1) Hexagon at 1' high, (1) Square and (1) Heptagon at 2' high, (1) Pentagon at 6'-6" high, (1) Square and (1) Heptagon at 8' high, and (1) Fully Enclosed Heptagon at 14' high. Decks shall be designed on a 48" center-to-center spacing on 5" deck posts, at equal or varied heights. All deck-to-post connections shall be made with a deck support clamp. All deck connections shall be made beneath deck with no exposed fasteners on deck perimeter. Decks with 8' wide open side shall be designed to attach to another deck with 8' wide open side at same deck height, or to a Model # 714-770-6 Flippopotamus Slide/Climber.

All decks shall be constructed with folded 11 ga. steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The decking shall have 7 ga. by 2" flat steel braces and corner braces of 7 ga. steel. The entire assembly shall be solid **welded** prior to polyvinyl coating. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. All deck surfaces shall be coated in **Mira-Therm2**.

- **KIDS' CHOICE HEPTAGON MEGA TOWER 3-LEVEL DECK** shall comprise three heptagonal decks – 2', 8' and 14' – on common posts with an enclosed center climber for ascending to upper level. The assembly requires a roof as well as barriers or other play components. The overall height of the assembly (with roof) is approximately 25' from finished grade. Seven-sided decks shall each consist of one (1) 3-Section Deck and two (2) 2-Section Decks, with 8' Deck also consisting of one (1) Center Deck Plug. Top deck surface area shall be 57 square feet. The deck length shall be 105" flat to post. The deck frame shall be constructed with folded 11 ga. Steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Each shall contain deck support members of 3/16" x 2" flat and decking supports of 3/16" x 2-13/16" flat. Each section shall be solid **welded**. Post assemblies shall be constructed of **5" tube, 11 ga.** The remaining posts shall be uncapped in readiness for roof attachment. A center climber shall comprise a ladder and enclosure assembly. The ladder shall be constructed of two **1-1/2" pipe** side rails with five **1" pipe** rungs solid **welded** between them. Two vertical spokes of **3/4" x 1" oval** tube shall be solid welded to bottom rung. Top ends of the rails shall contain 3/8" bolts for field attachment to upper deck. Bottom end of ladder shall have a 7 ga. Steel sheet mounting plate for field assembly to

lower deck. The overall width of the ladder assembly shall be 16". The angle of ascent shall be 0°. The enclosure assembly shall be constructed of a top rail of formed **1" pipe** with uprights of **3/4" x 1" oval tube**, solid **welded**, and a bottom mounting plate consisting of 7 ga. steel sheet. The enclosure shall be 50" from top of top rail to bottom of bottom rail. The assembly shall contain **Versalok Fasteners** and **Fastener Style A**. The decks shall be finished in **Mira-Therm2**. The center climber, posts, caps, and clamps shall be finished in **Mira-Cote**.

- **KIDS' CHOICE POSTS: STEEL POSTS:** The steel posts each shall be constructed of **5" tube, 11 ga.** with a **5" round end cap** pressed into its top end. Post and end cap shall have a **Mira-Cote** finish.
- **ROOFS WITH PERFORATED STEEL** with open tops for pentagon, heptagon, and hexagon decks shall offer superior durability in most environmental conditions. The steel roof panels shall be constructed of 16 ga. **A-60 Galvannealed** sheet perforated with 3/16" holes in a pattern, with a formed "lip" at the panel's top edge to provide additional stability during installation. A length of **1" pipe** shall be **welded** to the panel bottom. A panel mount formed of 11 ga. **G-90 galvanized** shall be field assembled to trusses and roof panels. Roof truss assemblies shall be constructed of a roof mount stub of **5" tube** for Kids' Choice, solid **welded** at a 54° angle to truss of **5" tube** containing bolting tabs on both sides of 11 ga. **G-90 galvanized**. **5" round end caps** shall close open ends of trusses. All hardware shall be **Fastener Style A**. The steel roof panels and trusses shall have a **Mira-Cote** finish. The panel mounts shall have a galvanized finish.
- **CUPOLA FOR HEPTAGON ROOF AT MEGA TOWER** shall be designed to cap the open top of Mega Tower "Roof for Heptagon Decks". The peaked cupola roof top halves, when fastened together, shall measure 36-1/4" O.D. by 13-3/4" high with a 54° slope. Each half shall be constructed of 14 ga. HRPO black, perforated with 3/16" holes spaced 1/2" apart center-to-center in a staggered pattern, and shall be punched and solid **welded**. The soffit shall measure 33" O.D. (after bending to create bolting tabs on perimeter) with an 18" I.D. opening, and shall be constructed of 11 ga. sheet, punched and formed, with 3/8" weldnuts on its bottom side. Extension trusses each shall comprise a receiver of 4.6875" O.D. by 0.188" thick tube with flange of 11 ga. **A-60 Galvannealed** sheet solid **welded** to a stub of **1-1/2" pipe** capped by a 1-3/4" by 3/8" thick CRS threaded insert. The interior wall shall be constructed of 24 ga. 304 SS sheet measuring 9-1/4" high by 69-5/8" wide (laid flat), punched and formed. The flag pole mounting plate shall comprise an 8" high receiver of **2" Sch 40 pipe** with 3/8" weldnuts and gussets of 11 ga. black sheet on a 21-1/4" O.D. plate of 7 ga. black, all solid **welded**. The assembly shall contain **Fastener Style A** hardware and **Fastener Style B** hardware. The cupola top, soffit, extension trusses shall be finished in **Mira-Cote**. The interior wall shall have a stainless steel finish.
- **TUBE SLIDES FOR 14' DECK** shall be 30" I.D. tube slides with observation windows designed to exit a 14' high deck system such as the Mega Tower 3-Level Deck. Bedway length for Model # 714-742-141 (Straight) shall be 25'-10". Bedway length for Model #s 714-742-143R (Right "S") shall be 26'-2". All pieces shall be **Rockite** with a 30" inner diameter. Tube-to-tube connections shall have a **Rockite** flange cover. The bedway shall have no exposed internal fasteners. The exit section shall be constructed of double-wall **Rockite** with a 25" centerline radius. All slide pieces shall be constructed with a 1/4" to 3/8" wall thickness. The tube joints shall be externally flanged and overlapping, with a 1" wide flange. The windows shall be clear polycarbonate and shall measure 13" x 40". The slide entry panels shall be **Rockite** and shall measure 47" x 38" x 3" with a molded in 30° extension, and shall be supported by a horizontal rung of **1" pipe**. Support legs of various lengths shall be die-formed of **1-1/4" pipe** or **2" pipe**. The front leg shall comprise an upright and a bolting plate. The upright shall be constructed of **2" pipe**. The bolting plate shall be constructed of 11 ga. sheet **A-60 Galvannealed** measuring 7" x 7", **welded** to the upright. The slide warning sign shall comprise a **Mira-Lene** sign panel and two support posts constructed of 2-3/8" O.D. tube, 12 ga. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The slide assembly shall have color molded in. The support legs, front leg and clamps shall have a **Mira-Cote** finish.
- **SCALE-N-SLIDE** is a thrilling, rapid-descent, open bedway slide. It shall be attached to 8' decks only. The slide model shall feature a sit-down transitional canopy for added safety. The one piece slide shall be constructed of double-wall **Rockite** with each wall being 1/4" to 3/8" thick. The body shall measure approximately 15' long by 3' wide. Total thickness of the body shall be approximately 13" to 18". The slide bedway shall measure approximately 17-3/4" wide by 6-3/4" deep. The slide shall weigh approximately 170 lbs. The slide canopy shall be constructed of double-wall **Rockite** with an inside width of 18" and an outside width of 37-1/4". The canopy hood shall be slanted 20 degrees. A 41-1/2" rung of **1" pipe** shall be used for field attachment to clamps on deck posts. The front leg shall include a segment of **2" pipe**, a mounting plate of 11 ga. galvanized, and a bracket constructed of 1/2" x 1-1/2" HR round, solid **welded**. Legs

for the slide assembly shall be constructed of formed **1-1/2" tube** with drilled mounting plates of 16 ga. galvanized solid **welded**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The slide/climber and canopy shall have color molded in. The arch enclosure, rung, front leg, support legs and clamps shall have a **Mira-Cote** finish.

- **MIRA-THERM2 9'-4" TYPHOON SPIRAL SLIDES** shall be 630 degree, open bedway spiral slides with step assemblies (enclosure-style railings) and barrel canopies (for transition to sitting, completely enclosed with top canopy), featuring platform heights of 9'-4" , designed for attachment to 6'-6" decks. The slide bedway shall be constructed of 1/4" to 5/16" wall **Rockite**. The slide bedway shall be 30" wide with a 15" high side wall. The center post shall be constructed of **4" pipe**. The step assembly shall be constructed of 11 ga. steel sheet folded and perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, solid **welded** to stringers of 7 ga. black steel. Bolting brackets shall be 11 ga. black steel. The handrail assembly shall consist of a top and bottom rail and newel post, formed, constructed of **1" pipe** with infill of **3/4" x 1" oval tube** (for Kids' Choice models). The step enclosure assembly shall be solid **welded**. Closing open ends shall be **plastic pipe plugs**. The diagonal brace shall be constructed of **2" pipe** and shall measure 17'. The deck enclosures shall consist of a vertical rail, and top and bottom rail, formed, constructed of **1" pipe** with an upright of **1" tube**, and 3/8" aluminum inserts in the rail ends for attachment to the step enclosures. The deck enclosure assembly shall be solid **welded**. The 35" platform barrel shall be **Rockite**, with a canopy painted alternating colors with polyurethane paint. The barrel shall have molded-in view grooves for viewing children. The back-up plates used to connect the step assembly and the barrel shall be constructed of 1/4" x 1" x 6" flat steel. The front leg shall be constructed of **2" pipe** and shall be attached to the slide using a channel constructed of 7 ga. sheet. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The **Rockite** slide and platform canopy shall have color molded in. The step shall be finished in **Mira-Therm2**. The handrail assemblies, deck enclosures, front leg assembly, diagonal brace, and clamps shall be finished in **Mira-Cote**. The back-up plates shall have a zinc plate finish.

- **MIRA-THERM2 ATA STAIRS BETWEEN DECKS** shall be stair assemblies, with spoked handrails, designed to connect decks of different heights. The steps shall be constructed of 7 ga. steel stringers with treads constructed of 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, solid **welded**, with polyvinyl coating. The braces shall be constructed of 11 ga. black. The spoked handrails shall consist of a top and bottom rail and newel post, all of **1" pipe**, and uprights constructed of **3/4" x 1" oval tube**, all solid **welded**, with **plastic pipe plugs** inserted in open ends. Top rails shall have 3/8" aluminum inserts. The top deck enclosure shall consist of enclosure rails and an upright, both to be constructed of **1" pipe**, drilled and solid **welded**, with one end of upright mashed for field attachment to deck. The bottom deck enclosure shall consist of horizontal rails and an upright of **1" pipe**, drilled and solid **welded**, and a spoke upright of **3/4" x 1" oval tube**. The upright shall be mashed on one end for field attachment to deck. Inserted in open ends will be **plastic pipe plugs**. The assembly shall include **Fastener Style A** hardware and **Versalok Fasteners**. The step assemblies shall be finished in **Mira-Therm2**. The deck enclosures, handrails, and clamps shall be finished in **Mira-Cote**.

- **MIRA-THERM2 SQUARE TRANSFER POINTS TO 6'-6" PLATFORM** shall be designed to assist disabled users gain access to and egress from a deck system starting at a 6'-6" high platform. The stair assembly shall be constructed of 11 ga. steel stringers solid **welded** to 11 ga. steel sheet decking that is perforated in a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Approximate dimensions of stair assembly shall be 26" overall width, 14" deep step tread and 8" high step rise. The 26" square (approximate) transfer point shall be constructed of 11 ga. steel sheet folded to form approximately 3" high sidewalls. The decking shall be perforated as described above. It shall be reinforced with cross braces of 3/16" x 2" HR flat solid **welded**. The bottom step shall be constructed of 11 ga. steel sheet (with folded edges) perforated as described above. The step shall be approximately 26" wide by 14" deep by 6-1/2" high. Kids' Choice deck enclosures shall be constructed of formed **1" pipe**, including a **welded** upright of the same material. Each deck enclosure assembly shall be drilled for field assembly of a stair handrail, and shall have its bottom end mashed and punched for field assembly to deck. Stair handrail assemblies shall be **welded** upper and lower handrails of formed **1" pipe**. Swaged handrail extensions for field assembly to handrails shall be constructed of **1" pipe**. A transfer deck handrail constructed of formed **1" pipe** shall be field assembled to one handrail newel upright and transfer point deck edge. Models designed for assembly to 6'-6" decks shall contain handrail sleeve supports constructed of **1-1/4" pipe, 10 ga**. The "U"-shaped transfer step handrail shall be formed **1" pipe**, drilled for field assembly to transfer point deck and bottom step. Its apex shall be 36-1/8" from finished grade. The rung leg shall be **1" pipe** with ends mashed and punched for field assembly to bottom step. The assembly shall contain **Versalok**

**Fasteners and Fastener Style A** hardware. The stairs, bottom step, and transfer point deck shall be finished in **Mira-Therm2**. The deck enclosures, handrails, extensions, sleeves, leg and clamps shall be finished in **Mira-Cote**.

- **ENCLOSURE ASSEMBLY** shall consist of enclosure rails and uprights. The enclosure rails shall be constructed of **1" pipe**, drilled, with **plastic pipe plugs** inserted in the open ends. The uprights shall be constructed of **3/4" x 1" oval tube**, mashed on both ends. The enclosure assemblies shall be solid **welded**. The enclosure assemblies shall have a **Mira-Cote** finish.
- **ONE-SIDED DECK ENCLOSURE** shall be designed for mounting on a deck system for use only with the Post Climber, Model # 714-616, which can be mounted to the corner post of a deck, allowing access from lower levels to upper levels. The one-sided deck enclosure shall comprise enclosure rails and uprights. The enclosure rails shall be constructed of **1" pipe**, drilled and mashed at deck end. The uprights shall be constructed of **3/4" x 1" oval tube**. The entire assembly shall be solid **welded**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The deck enclosure and clamps shall be finished in **Mira-Cote**.
- **VERTICAL CLIMBERS** shall include the Wiggly Worm Climber designed to access or egress an 8' deck. Climber in specified design is accessible from ground, 2' high deck, or 8' high deck. The Wiggly Worm Climber shall comprise loops solid **welded** to frames, all of **1-1/4" pipe, 10 ga**. The enclosure assembly shall consist of top supports, an extension tube, and an arched upright, which shall be constructed of **1" pipe**, formed, mashed and punched, and vertical rungs constructed of **3/4" x 1" oval tube**. The enclosure assembly shall be solid **welded**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The climber assembly, arch entry enclosure, and clamps shall have a **Mira-Cote** finish.
- **BRAIDED CLIMBER** shall be a twisting, vertical climbing challenge rising to an 8' deck height with arch enclosure. Climber in specified design is accessible from ground, 2' high deck or 8' high deck. Climber shall comprise two uprights with coped plugs inserted into top ends, and eight rungs. The uprights and rungs shall be constructed of **1" pipe, Gator Grip**. Upright shall measure 174-1/16" in length and shall be solid **welded** to rungs. Top support shall be comprised of **1" pipe, Gator Grip**, solid **welded**. The arch enclosure shall comprise top supports and an arched upright of **1" pipe** and spoked infill of **1" tube**, all solid **welded**. All models shall contain **Fastener Style A** hardware.
- **LOOK-OUT LADDER** shall be designed for use as an entrance and exit for decks of 6'-6" in height. Each assembly shall consist of side rails and rungs constructed of **1" pipe**, all solid **welded**. Models shall have threaded inserts in the ends of the side rails and an arch enclosure. The Kids' Choice enclosure assembly shall consist of top supports, a bottom support, and an arched upright constructed of **1" pipe**, formed, mashed and punched, and vertical infill of **3/4" x 1" oval tube** with mounting tabs of 7 ga. sheet, all solid **welded**. The ladders and enclosure assemblies shall have a **Mira-Cote** finish.
- **UPHILL CLIMBER** shall be ground-to-deck climbers rising 8'. The side rails shall be curved **1-1/2" pipe** with blind fasteners inside top end, with curved rungs constructed of **1" tube**, die formed and **welded** to side rails. The deck enclosure assembly for Kids' Choice models shall consist of top supports, a bottom support, an outer upright, and an arched upright, which shall be constructed of **1" pipe**, formed, mashed and punched, and vertical rungs which shall be constructed of **3/4" x 1" oval tube** with bolting tabs of 11 ga. sheet. For all systems, the deck enclosure shall be solid **welded**. Loop climber and handholds shall have a **Mira-Cote** finish.
- **HANDRING BRIDGES** shall be overhead climber assemblies. The header assembly shall consist of the header beam, with **welded** bushing sleeves and cross bars. The header beam and cross bars shall be constructed of **2" pipe**. The bushing sleeves shall be segments of 1-1/4" OD x 9/16 ID steel pipe. The entire assembly shall be solid **welded**. The handrings shall be triangular in shape and constructed of ductile iron, grade 60-40-18. For models with optional end climbers, the end climber assembly shall be constructed of **1" pipe**, formed. The assembly shall be solid **welded**. For models with optional deck enclosures, the enclosure assemblies shall consist of enclosure rails and uprights. The enclosure rails shall be constructed of **1" pipe**, formed, mashed and punched. The uprights shall be constructed of **3/4" x 1" oval tube** mashed on both ends. The enclosure assemblies shall be solid **welded**. The posts shall be constructed and finished in the same manner as deck posts. Each assembly shall include **Versalok Fasteners** and **Fastener Style A** and **Fastener Style B** hardware. The header, end climber, and enclosure assemblies shall be finished in **Mira-Cote**. The handrings shall be zinc plated.

- **THERAPEUTIC HANDRINGS** shall be an upper body and arm strengthening component that attaches between decks. Handring can be placed at 84" from finished surfacing for regular users, and 54" for ADA users. The handring beam shall consist of an end rail, bushing, and bushing housing. The end rail shall be constructed from **2" pipe** and shall be 40-1/2" in length. The handring assembly shall contain a chain constructed of 5/16" proof coil, two "D" shackles, and a handring cast constructed of grade 60-40-18 ductile iron. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The handring cast shall be zinc plated.
- **MIRA-THERM2 RAMPS** shall include 12' long inclined ramps between decks with open handrails and shall be designed as a means for traveling from one deck to another. The ramps shall be constructed of 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, with edges folded to form 3" tall walls, and braces of 1/4" x 1-1/2" flat, all solid **welded**. Flat braces of 7 ga. steel shall measure 1/4" x 1-1/2". The entire assembly shall be solid **welded**. Each open handrail assembly shall consist of a top, bottom, and middle rail constructed of **1" pipe**. The top and bottom rails shall be joined at the ends by sleeves constructed of **1" tube**. The middle rail shall be **welded** to the top rail. The entire assembly shall be solid **welded**. The stubs to be placed in the **Versalok Fasteners'** sockets shall be constructed of **1" pipe** and shall contain 3/8" aluminum inserts. All hardware shall be **Fastener Style A**. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**. The enclosures, posts, bolting plate, and clamps shall have a **Mira-Cote** finish. The ramps shall have a **Mira-Therm2** finish.
- **MIRA-THERM2 BURMA BRIDGES** shall be "V"-shaped bridge assemblies spanning 8' between decks of equal height. Children shall walk across a narrow platform, enclosed on each side, while grasping handrails set farther apart. The bridge section shall be constructed of 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center, with edges folded to form 3" tall walls, solid **welded** to braces of 1/4" x 1-1/4" flat. The bridge assembly for Model # 714-723-9 shall be 1'-1/2" x 8'. Top and bottom rails of handrails shall be constructed of **1" pipe** with spoked infill of 3/4" x 1" **oval tube** and 3/8" aluminum inserts in top rail ends. The enclosure handrails shall be solid **welded** and shall have **plastic pipe plugs** inserted in open ends. The deck enclosures shall consist of a top and bottom rail and vertical support of **1" pipe** with infill of **1" tube**, all solid **welded**. The assembly shall contain **Fastener Style A** hardware and **Versalok Fasteners**. Bridge sections shall be finished in **Mira-Therm2**. Handrails, deck enclosures, and clamps shall be finished in **Mira-Cote**.
- **MIRA-THERM2 12' GROUND-TO-DECK RAMP** assemblies shall be 1:12 inclined ramps from ground level to a 1' high deck system. Each model shall contain open handrails and either steel or aluminum end posts. The 3' x 6' ramp sections shall be constructed with folded 11 ga. steel sheet forming 3" tall sides. Decking sheets shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The decking shall have 7 ga. by 2" flat steel braces and corner braces of 7 ga. steel. The entire assembly shall be solid **welded** prior to polyvinyl coating. The open handrail assemblies shall each consist of a top, bottom, and middle rail constructed of **1" pipe**. The leg extension stubs shall be **1" tube** with **plastic pipe plugs** inserted in open ends. The middle rail shall be **welded** to the top rail. The entire assembly shall be solid **welded**. Posts for Model # 714-920-9 and # 714-920-59 shall be constructed of **5" tube, 11 ga**. Each post shall have a **5" round end cap** pressed into its top end. Each post shall measure 76" before end cap. The ramp support shall consist of a 41" rung of **1" pipe** and a bolting plate constructed of 7 ga. **G-90 galvanized** sheet solid **welded**. Ramp legs shall measure 59" and shall be constructed of die-formed **1-1/2" tube**. The ramp assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The handrails, posts, stubs, legs, and clamps shall have a **Mira-Cote** finish. The ramps shall have a **Mira-Therm2** finish.
- **TIC TAC TOE PANELS** shall contain nine cylinders in rows and columns of three which spin independently of one another. Each cylinder shall contain two molded-in graphic images on opposite sides which may be aligned with other cylinders to complete the classic game. Kids' Choice models shall include enclosures. The panel shall be constructed of **Rockite** with all corners rounded and shall have cylinder assemblies factory-installed using tamper-proof hardware. Each cylinder shall be constructed of **Rockite** with molded-in graphics on two "sides." Cylinder axes shall be constructed of **1" pipe**. Enclosures for Kids' Choice models shall each consist of a vertical upright and horizontal stubs of **1" pipe** solid **welded**, drilled and formed. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**. All hardware shall be **Fastener Style A**. The **Rockite** panel and cylinders shall have color molded in. The **Versalok Fasteners**, enclosures and panel tabs shall have a **Mira-Cote** finish.
- **WALL WITH STEERING WHEEL** shall be barrier assemblies. The wall enclosure shall consist of a **welded** assembly handrail system with a top and bottom rail constructed of **1" pipe** and uprights constructed of **3/4" x 1" oval**

**tube**, solid **welded**. The mounting bracket shall be 11 ga. **A-60 Galvannealed** sheet steel, **welded** to the wall enclosure. The steering wheel on vehicle-themed panels shall be constructed of a high-density blow molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D- 638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection molded polypropylene which shall contain U.V. light stabilizers. The enclosure rungs, uprights and steering wheel mounting bracket shall have a **Mira-Cote** finish. The steering wheel shall have molded in color.

- **WIRE MESH ENCLOSURE** shall serve as barriers on any open side of decks. The wire mesh enclosure supports shall consist of a solid **welded** handrail assembly with top, side and bottom rails constructed of **1" pipe**. Wire mesh shall be 7 ga. resistance **welded** at each intersection. Fastening hardware shall be **Fastener Style A** and **Versalok Fasteners** shall be constructed of **aluminum alloy**. The enclosure assemblies, clamps and wire mesh shall have a **Mira-Cote** finish.
- **CHIME PANEL** shall contain a manually-activated tonal scale, bringing an acoustic experience to the playsystem. The panel shall be constructed of **Rockite** with all corners rounded, measuring 37-15/16" tall by 36" wide with a peaked top. The panel insert shall contain eight chime tubes of 1-7/16" O.D. 6063-T6 aluminum suspended on a 1/4" 304 stainless steel rod between 48" diameter by 3/4" thick sheets of high-density polyethylene (routed with the tonal value each chime represents) with rectangular openings for access to the chimes. Spacers, fillers and covers shall be constructed of laminated sheet HDPE, and the striker shall be 3/4" thick by 16-1/2" HDPE. Users activate the chimes by pushing them against the striker with their hands. Model # 714-975-3 shall contain enclosures consisting of a vertical upright and horizontal stubs of **1" pipe** solid **welded**, drilled and formed. Model # 718-975-3 shall contain a 37-1/2" long top rail of **1" pipe** and a mounting plate of drilled and formed 11 ga. **A-60 Galvannealed** sheet. Model # 718-975-3B shall contain two horizontal rails of **1" pipe** for field assembly to posts via clamps. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The **Rockite** panel and HDPE inserts shall have color molded in. The enclosures, rails and clamps shall have a **Mira-Cote** finish. The mounting plate shall have a galvanized finish.
- **SIGN LANGUAGE AND CALYPSO DRUM PANEL** shall be constructed of **Mira-Lene** and shall measure 36-1/2" x 40" with all corners rounded. The panels shall have routed designs, a sign language alphabet a drum panel. Rung brackets shall be constructed of **1" pipe** and 11 ga. **A-60 Galvannealed** tabs solid. The panels and steering wheel shall have molded in color with each panel assembly having a laminated, two-color scheme. Calypso drum panel shall contain 3 rotational molded drums of low density polyethylene resin. Each drum shall be attached to the panel through a cover plate constructed of 11 ga. galvanized steel sheet with a **Mira-Cote** finish. Each assembly shall include **Fastener Style A** hardware and **Versalok Fasteners**. Panels and steering wheels shall have color molded in, and rung brackets and clamps shall be finished in **Mira-Cote**.
- **HOW TALL RU PANEL** shall be an easy, colorful way for kids to see how quickly they grow. Simple post mounted Panel is marked in both centimeters and feet. The panel shall be constructed of **Mira-Lene** with all corners rounded. Panel shall have routed inches/feet and centimeters. Panel shall measure 39 7/8" x 8". Brackets shall be constructed of 11 ga. A-60 sheet. Each assembly shall contain **Fastener Style A** hardware. Panel and brackets shall have a **Mira-Cote** finish.
- **FULL ENCLOSURE WITH SEAT** (or without) for 14' level of Mega Tower 3-Level Deck shall be designed to fully enclose the area between deck posts, deck and roof (an approximate height of 6'). The enclosure shall comprise **welded** horizontal and vertical rungs and a seat assembly. The outer uprights, top, middle and bottom rungs and formed seat rails shall be constructed of **1" pipe**. The outer uprights shall have mashed and punched bottom ends for field attachment to deck. The inner spokes shall be constructed of **3/4" x 1" oval tube**. The seat rails shall have formed and punched bolting brackets of 3/16" x 1-1/4" HR flat. The 19" wide seat shall be constructed of formed 11 ga. sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. When enclosure is assembled to deck, the seat surface shall be approximately 14" from the deck surface. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The enclosure assembly and clamps shall be finished in **Mira-Cote**. The seat shall be finished in **Mira-Therm2**.
- **UPPER ENCLOSURE FOR TUBE SLIDE** for 14' level of Mega Tower 3-Level Deck shall be designed to fully enclose the area between deck posts, deck and roof (an approximate height of 6'). The tube slide shall not be included

in this assembly. The enclosure shall comprise **welded** horizontal and vertical rungs. The outer uprights and top and bottom rungs shall be constructed of **1" pipe**. The inner spokes shall be constructed of **3/4" x 1" oval tube**. The bottom rung shall be formed to accommodate the shape of a tube slide assembly's entry panel. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The enclosure assembly and clamps shall be finished in **Mira-Cote**.

- **LEAN OUT ENCLOSURE** for 14' level of Mega Tower 3-Level Deck allows the user to lean out approximately 3' over the edge of the 14' level of the Mega Tower. Enclosure features picket style rails and shall be designed to fully enclose the area between deck posts, deck and roof (an approximate height of 6'). The **welded** framework enclosure shall contain top, bottom and formed side rungs of **1" pipe**, a frame tie of 1/8" x 1" flat, vertical spokes of **3/4" x 1" oval tube** on each side, vertical spokes of **1" tube** on its front (above and below frame tie), and a formed rail of **1" tube welded** to the top rail. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The enclosure assembly and clamps shall be finished in **Mira-Cote**.
- **LOOP SEAT** is an inventive way for kids to rest between play. The Loop Seat shall install between existing deck posts and is situated at a 45 degree angle to create a combination seat and back rest. The Loop Seat shall consist of two loop halves constructed of **2" pipe**, solid **welded** to each other to create one Loop Seat. Each loop half shall measure 32-5/8" in length and 14-13/16" in height. Two 4-3/8" stubs shall be solid **welded** to short sides of Loop Seat and shall be constructed of **2" pipe**. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The Loop Seat shall be finished in **Mira-Cote**.
- **POST CLIMBER** shall be designed to attach to existing deck 5" posts. Climbers are versatile and can be reoriented for varying play experiences. Post climber shall be constructed of **1" pipe**, **Gator Grip**. Climber shall measure 14-1/2" in length and 6-7/8" in width for KC. Each assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The climber shall have a **Mira-Cote** finish.
- **BONGO PODS** shall be designed to enter/exit 2' or lower deck systems, either as a bridge between decks, a ground-to-deck "stair," or as a freestanding assembly with no decks. Deck enclosures shall be provided where the pod provides access to or from a platform. When installed as a bridge, pods may be installed at ascending/descending heights or all level. Freestanding pods may ascend and descend and may follow any course so long as pods are set 7" to 9" edge-to-edge. Pods may also be clustered and installed flush with each other to create a table, seats, small climber, etc. Regardless of layout and design, pod steps top surface may be set no greater than 24" from finished grade. Each pod step shall be constructed of **Rockite** and shall contain a honeycomb textured, hex-shaped top surface measuring approximately 16" diameter. Pod steps shall measure 12" high without posts. Posts shall be constructed of **1-1/2" pipe** with a 5-7/8" diameter mounting plate of 11 ga. **G-90 galvanized solid welded** to the posts. Post lengths shall be 38-5/16" before field assembly to pods. Overall assembled length shall be 42". All fasteners shall be **Fastener Style A**. The **Rockite** pod steps shall have color molded in. The posts shall be finished in **Mira-Cote**.
- **OBSERVATION DECKS** shall each consist of a curved deck extension and a curved deck enclosure designed to enhance imaginative play. Model # 714-849-6 features an extended steering wheel attached to enclosure crossbars to be more easily grasped by wheelchair-bound users. The platform shall be constructed with 11 ga. steel sheet perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. The frame shall be constructed by folding edges to form 3" tall walls and shall be supported by solid **welded** supports of 1/4" x 1-1/2" flat steel. The platform shall be approximately 40" long with a radius of 9-7/16". The enclosure shall consist of enclosure rails, uprights, and two center stubs which shall support the bottom rail. The enclosure rails shall be constructed of **3/4" x 1" oval tube**. The uprights shall be constructed of **1-1/4" tube**, mached on both ends. The top and bottom rails shall be constructed of **1-1/4" tube**. The entire assembly shall be solid **welded**. The mounting bracket shall be 11 ga. **A-60 Galvannealed** sheet steel **welded** to the wall enclosure. The steering wheel shall be constructed of a high-density blow-molded polyethylene produced from high performance, U.V. stabilized resins with a comprehensive additive package. These resins shall be tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D- 638, D-790 and D-746. Resin's properties shall exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness shall be 1/8". The steering wheel hub cover shall be constructed of injection-molded polypropylene which shall contain U.V. light stabilizers. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware.

- **LOOKOUT TOWER** shall be curved deck extensions/overhangs and enclosure components for deck systems, designed to stimulate imaginative play. Panels shall be constructed of **Rockite**, with wall thickness approximately 1/4", formed to extend the deck surface in a semi-circle (approximately 40" long with a radius of 9-7/16") and also formed to serve as an enclosure. The panels shall have four 3/8" threaded inserts factory-installed along bottom of deck edge and a top rung of 1" pipe inserted at the factory for field attachment to deck and posts respectively. The panels shall contain five 2" wide view slots evenly spaced, with all corners rounded. All **Versalok Fasteners** for deck and component attachment shall be **aluminum alloy**, and hardware shall be **Fastener Style A**. The **Rockite** panel shall have color molded in. The top rung and **Versalok Fasteners** shall have a **Mira-Cote** finish.
- **CRUNCH STATION** shall be a semi-circular horizontal rung assembly designed for mounting on a 5" steel deck post with the rung set 50" - 80" from finished grade. The Crunch Station shall enable the user to perform leg lifts and crunches in a standing position. It shall be constructed of a cut and formed 1" pipe segment solid **welded** to support and bolt plates of 7 ga. galvanized steel. All hardware shall be **Fastener Style A**. The assembly shall have a **Mira-Cote** finish.
- **ABOVE DECK FUN FONES** shall feature two mouthpieces connected by tube so that users may speak into one piece and be heard at the other, mounted up to 50' away. These models shall be designed for attachment to deck systems mounted above a Lookout Tower, sold and assembled separately. The Fun Fone support assembly shall contain a mouthpiece, formed tube, and mounting stub, all solid **welded**. The tube assembly shall be constructed of 2" pipe. The funnel-shaped mouthpiece shall be 16 ga. galvanized steel. The mounting stub shall be 1" pipe. The anchor assembly shall be formed 2" pipe with one end swaged and solid **welded** to a leg support of 1" pipe. The 2" I.D. tube shall be 50' long and constructed of polyethylene. The pipe connectors shall be constructed of rubber and shall contain hose clamps at each end. The assembly shall contain **Versalok Fasteners** and **Fastener Style A** hardware. The Fun Fone support assembly, anchor assembly, post, and clamps shall have a **Mira-Cote** finish.
- **BELL, POST MOUNT** shall be designed to provide noisy, imaginative play to any pre-existing deck post. The Bell Assembly shall consist of a Bell, A Bell Support, a 6-link Chain, and eyebolt, and **Fastener Style A** hardware. The Bell shall be constructed of **A-60 Galvannealed**. The Bell Support shall be constructed of 1" pipe, **Gator Grip**. The Bell Chain shall be constructed of 4/0 straight link coil chain. The Bell shall have a **Mira-Cote** finish.

#### **Technical Data for Processes and Finishes of the Highlighted Items**

- **aluminum alloy** conforms to the following: ASTM 356, ANSI 322, Chrysler MS 2417 and General Motors GM 4323-M. Parts or components constructed of aluminum alloy are either *sand cast* or *die cast*. *Sand cast aluminum alloy* is 319 with tensile strength of 27,000 p.s.i. and yield strength of 18,000 p.s.i. *Die cast aluminum alloy* is 383.1 with tensile strength of 45,000 p.s.i. and yield strength of 22,000 p.s.i.
- **4/0 straight link coil chain** is hot dipped galvanized with a 670 pound working load limit. All chain shall be manufactured to ASTM A467-86A Class CS specifications.
- **Versalok Fasteners (R)** are cast **aluminum alloy**. Each fastener consists of two die cast **aluminum alloy** "half ring" pieces, which were designed to fasten onto the round posts by use of a male/female interlock. For 3-1/2" post, outside dimension of the completed fastener (joined "half-rings") is 5". For 5" post, outside dimension of the completed fastener is 6-1/2". *Rungs and components* connect to clamps on posts by means of die cast **aluminum alloy**, two-piece socket receptors which may be assembled to a previously-installed clamp ring and secured to the clamp and component by set screws (and tek screws in some cases). *Decks* connect to clamps on posts by means of die cast **aluminum alloy**, one-piece deck support castings. The clamp assembly and socket receptor have a **Mira-Cote** finish. Kids' Choice components with 2" pipe mounting points attach to 5" posts using **aluminum alloy** sand cast header supports.
- **3-1/2" round end cap** is die cast **aluminum alloy**.
- **5" round end cap** is die cast **aluminum alloy**.

- **Fastener Style A** is a corrosion resistant, 18-8, stainless steel, vandal resistant fastener.
- **Fastener Style B** is an all aluminum blind rivet or aluminum drive rivet with stainless steel pin. Both are corrosion resistant and vandal resistant fasteners.
- **Flo-Coat (R)** is a patented triple coat corrosion protection process of Allied Tube and Conduit's Mechanical Tube Division, wherein steel pipe or tube first receives a hot-dipped uniform zinc galvanized coating followed by a conversion coating followed by a clear, high performance organic polymer coating. The interior of the tube has an 81% minimum zinc rich primer applied, capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding. Flo-Coat processed tube exceeds the test results of galvanized Sch 40 pipe in salt spray tests conducted in accordance with ASTM B-117. The term "Flo-Coat" is a registered trademark of Allied Tube and Conduit, used with permission.
- **GATOR GRIP (TM)** is a three dimensional textured pattern exclusive to Miracle, embossed in steel to a depth of .014" to .017".
- **G-90 galvanized** indicates that a coating of .90 ounces of zinc per square foot has been applied on each surface side.
- **A-60 Galvannealed** indicates that a coating of .60 ounces of zinc per square foot alloyed with substrate steel has been applied on each surface side.
- **Mira-Cote (TM)** is a Super Durable formulation of a polyester powder coating finish that is applied to a thickness of 3-5 mil. This finish gives metal parts long term protection from chipping, fading and peeling. Miracle's finishing system washes the metal parts with detergent and etches the metal for optimum adhesion. The part is then rinsed clean with water. Next the part is coated with a non-chromic sealer and dried. The Mira-Cote powder is then applied electrostatically to the metal part. The metal parts are then baked at a high temperature to fuse a hard, smooth durable finish to the metal. Mira-Cote has an impact value of 160 in. lbs., flexibility value of 180 degrees-1/4" mandrel, shore hardness value H and a crosshatch adhesion of 100%. Mira-Cote is tested in accordance with ASTM D-792, D-523, D-2794, D-1737, D-3363, D-3359 (b), B117 and D-2247. Mira-Cote will withstand over a 1,500 hours of salt spray exposure and 1,500 hours of weatherometer testing with minimal loss of gloss and color.
- **Mira-Lene (TM)** is compression-molded, 3/4" thick, high density polyethylene that has been specifically formulated for optimum U.V. stability and color retention. Compression-molded products have a density of .952 g/cm<sup>3</sup> per ASTM D1505 and tensile strength of 3900 PSI per ASTM D638.
- **Mira-Therm2** is a polyvinyl chloride coating applied to a thickness of 1/16" to 1/8". Primed metal parts are heated and then dipped in a vinyl plastisol solution. As the vinyl plastisol is heated, fusion takes place and the liquid is converted into a tough, homogenous mass with excellent abrasion, aging, corrosion and electrical resistance. Mira-Therm2 contains U.V. light stabilizers, anti-microbial additives and color pigments. Mira-Therm2 contains no orthophthalates or other banned substances. Mira-Therm2 is a proprietary brand of polyvinyl. Materials are tested in accordance with ASTM D-638, ASTM D-412, ASTM D-2240 and ASTM D-1004. Mira-Therm2 meets the FMVS 302 flammability rating, the requirements of California State Law and the 2008 CPSI Act.
- **Mira-Therm PE** is a non-toxic copolymer polyethylene coating applied to a thickness of 1/16". Mira-Therm PE contains U.V. light stabilizers, anti-microbial additives and color pigments. Mira-Therm PE contains no orthophthalates or other banned substances. Mira-Therm PE is a proprietary brand of PE coating. Materials are tested in accordance with ASTM D-638, ASTM D-412, ASTM D-2240 and ASTM D-1004. Mira-Therm PE meets the FMVS 302 flammability rating, the requirements of California State Law and the 2008 CPSI Act.
- **pipe sized tube** is 1010 hot rolled, **Flo-Coat**, galvanized pipe manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8.

- **schedule 40 galvanized pipe** consists of a hot dip process of coating the pipe inside and out with not less than 1.6 ounces per square foot with an average of 1.8 ounces per square foot. Schedule 40 pipe conforms to ASTM standards A-53.
- **1" pipe** is **GATOR GRIP** embossed 14 ga., **1" pipe sized tube** (1.315" OD; approx. 1-5/16" OD.)
- **1-1/4" pipe** is 13 ga., **1-1/4" pipe sized tube** (1.660" OD; approx. 1-11/16" OD.)
- **1-1/4" pipe, 10 ga.** is 10 ga., **1-1/4" pipe sized tube** (1.660" OD; approx. 1-11/16" OD.)
- **1-1/2" pipe** is 13 ga., **1-1/2" pipe sized tube** (1.900" OD; approx. 1-7/8" OD.)
- **2" pipe** is 12 ga., **2" pipe sized tube** (2.375" OD; approx. 2-3/8" OD.)
- **4" pipe** is 7 ga., **4" pipe sized tube** (4.500" OD; 4-1/2" OD.)
- **2" Sch 40 pipe** is **2" schedule 40 galvanized pipe** (2.375" OD; approx. 2-3/8" OD.)
- **plastic pipe plugs** are injection molded polypropylene containing U.V. light stabilizers.
- **Rockite (R)** (Rotational Molded Polyethylene) is a low density polyethylene produced from high performance, U.V. stabilized rotational molding grade resins with a comprehensive additive package. These resins are tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D- 638, D-790 and D-746. Resin's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness of molded components is 3/16" to 1/4".
- **round tube** is fabricated of 1010 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **3-1/2" aluminum tube** is a 3.5" O.D. (.125 wall) aluminum post that receives a five stage oxidation wash prior to painting. This 6005-T5 alloy and temper extruded aluminum tube conforms to ASTM-B-221 and QQ-A-200/8 with yield strength of 35,000 p.s.i. and tensile strength of 38,000 p.s.i.
- **5" aluminum tube** is a 5" O.D. (.125 wall) aluminum post that receives a five stage oxidation wash prior to painting. This 6005-T5 alloy and temper extruded aluminum tube conforms to ASTM-B-221 and QQ-A-200/8 with yield strength of 35,000 p.s.i. and tensile strength of 38,000 p.s.i.
- **3/4" x 1" oval tube** is 15 ga. wall. It is fabricated of 1008 hot rolled, **Flo-Coat**, galvanized tube manufactured from steel, cold formed and high frequency induction **welded** continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.
- **1" tube** is 1" OD, 15 ga. fluted **round tube**. It conforms to ASTM A-500.
- **1-1/4" tube** is 1.315" OD (approx. 1-5/16" OD), 14 ga. diamond embossed **round tube**. It conforms to ASTM A-500.
- **1-1/2" tube** is 1-1/2" OD, 16 ga. **round tube**. It conforms to ASTM A-500.
- **3-1/2" tube** is 3-1/2" OD, 13 ga. **round tube**. It conforms to ASTM A-500.
- **5" tube** is 5" OD, 13 ga. **round tube**. It conforms to ASTM A-500.

- **5" tube, 11 ga.** is 5" OD, 11 ga. **round tube**. It conforms to ASTM A-500.
- **welded** refers to welds that are made by certified welders, tested in accordance with AWS D1.1-94, structural welding code specifications for steel. Welds conform to AWS A5.17 ASME SFA-5.17 EML3K and AWS A-5.18ER70S-3 ASME SFA-5.18 ER70s-3 LE332- C and LE-559-L.

**ATHLETIC & RECREATIONAL SURFACES****\*\*\*BOUND RUBBER MULCH****PART 1 - GENERAL****CONDITIONS OF THE CONTRACT****1.1 SUBMITTALS FOR APPROVED EQUALS**

**Note: All required submittals must be received and approved by the Architect a minimum 14 days prior to bid date. (As follows)**

- A. Product DATA
  - 1. Manufacturer's Specifications
  - 2. Manufacturer's Maintenance Requirements
  - 3. 3 Year Manufacturer's Warranty covering both Materials and Installation.
  - 6. Two (2) 1'x1' samples of product to be installed
  - 7. \*\*Performance Bond when required

**PART 2 - PRODUCTS****2.1 Approved Product(s)**

- A. Manufacturers who produce an equivalent product based on compliance of Section 1.1 – SUBMITTALS FOR APPROVED EQUALS shall be approved for use on the project.

## Bound Rubber Mulch

**1. Product Description****BASIC USE**

Bound Mulch Poured-In-Place Safety Surfacing is designed for playgrounds, walking trails, landscape applications, etc.

**COMPOSITION & MATERIALS**

Bound Mulch Poured-In-Place Safety Surfacing is a 1-layer system. The product consists of 100% post-consumer recycled, .5"-2" shredded, SBR (styrene butadiene rubber) and high-grade aromatic polyurethane.

**PRODUCT DIMENSIONS**

If used as an impact attenuation course or safety surface, the height of the playground equipment determines the required product thickness. Thicknesses are determined by the "Critical Fall Height" requirements through testing.

## 2. Technical Data

\*\*A 99.9 % Metal Free, 100% Recycled Product

### APPLICABLE STANDARDS

ASTM International

\*ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

### ENVIRONMENTAL CONSIDERATIONS

This system makes extensive use of recycled tire rubber as a major component.

### PHYSICAL/CHEMICAL PROPERTIES

\*Shock attenuation (ASTM F1292) Gmax Less than 200

\*Head injury criteria-Less than 1000

Required mix proportions by weight:

\* Rubber 80% Urethane 20%

\* Test reports and additional product information are available upon request

## 3. Installation

### PREPARATORY WORK

Rubber materials should be protected from exposure to harmful environmental conditions (moisture) and at a minimum temperature of 32 degrees F and a maximum temperature of 94 degrees F.

Install surfacing system when minimum ambient temperature is 42 degrees F and maximum ambient temperature is 94 degrees F.

### METHODS

Installation of Bound Mulch rubber safety surface cannot proceed until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed and approved.

#### Primer

Using a bristle brush, apply ample urethane primer to all curbing and or vertical substrates, which the rubber surfacing system will contact.

#### Installation

Using screed sticks and gauge polls, install the buffing rubber materials to 1/4" higher than required thickness. Using hand trowels, pull the base material together using consistent pressure throughout. Repeat the process until all areas, including fall zones, comply with the provided architectural plans and specification requirements.

Allow Bound Mulch to cure for sufficient time (24 to 72 hours) so that indentations are not left in the installed product.

Allow product to cure for 24 hours to 72 hours contingent on the humidity and temperature. Protect newly installed rubber safety surface from foot traffic or equipment usage until the Bound Mulch safety surface has fully cured.

**4. Warranty**

Warranty period for Bound Rubber Mulch safety surface is for a 3 years from the time of completion of installation. Warranty period for water play areas is 1 years from time of completion of installation.

**5. Maintenance**

Using a watering hose or a pressure washer, not exceeding 1000PSI, lightly rinse off all excess debris from the surface using a spray nozzle not to exceed 45 degrees. While surface is wet, apply a mild cleaning/degreasing detergent and lightly spray off. Repeat as necessary. Once clean, final rinse with low-pressure water from a hose to remove any excess cleaning agents.

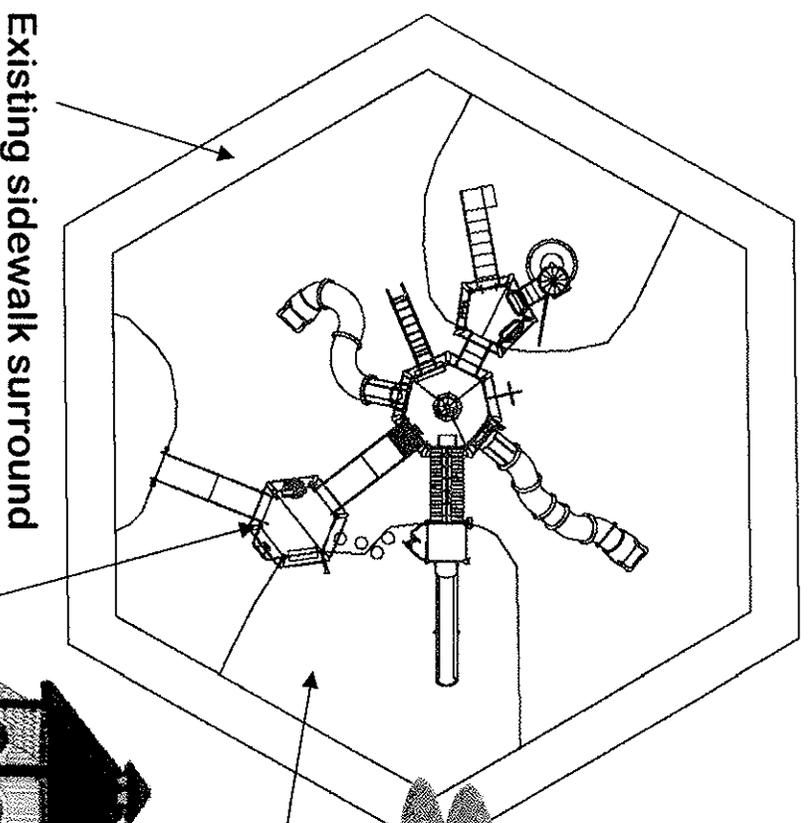
**6. Technical Services**

Work closely with the contractor to ensure the site is prepared and the installation is on schedule.

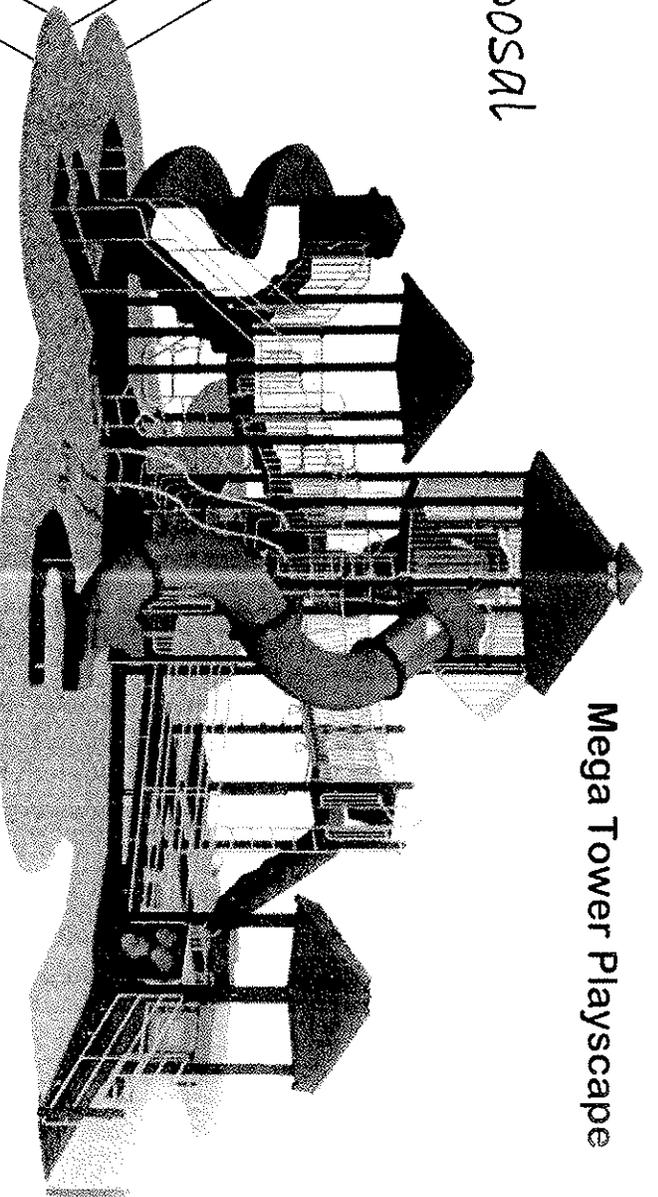
**7. Bound Mulch Data**

Additional product information is available from representative upon request.

# City of Edinburg South Park Playscape Proposal

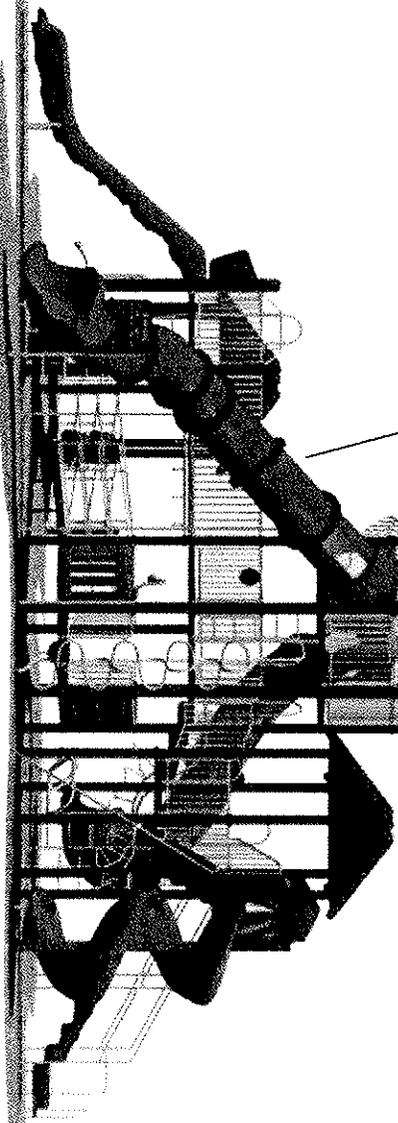


Existing sidewalk surround



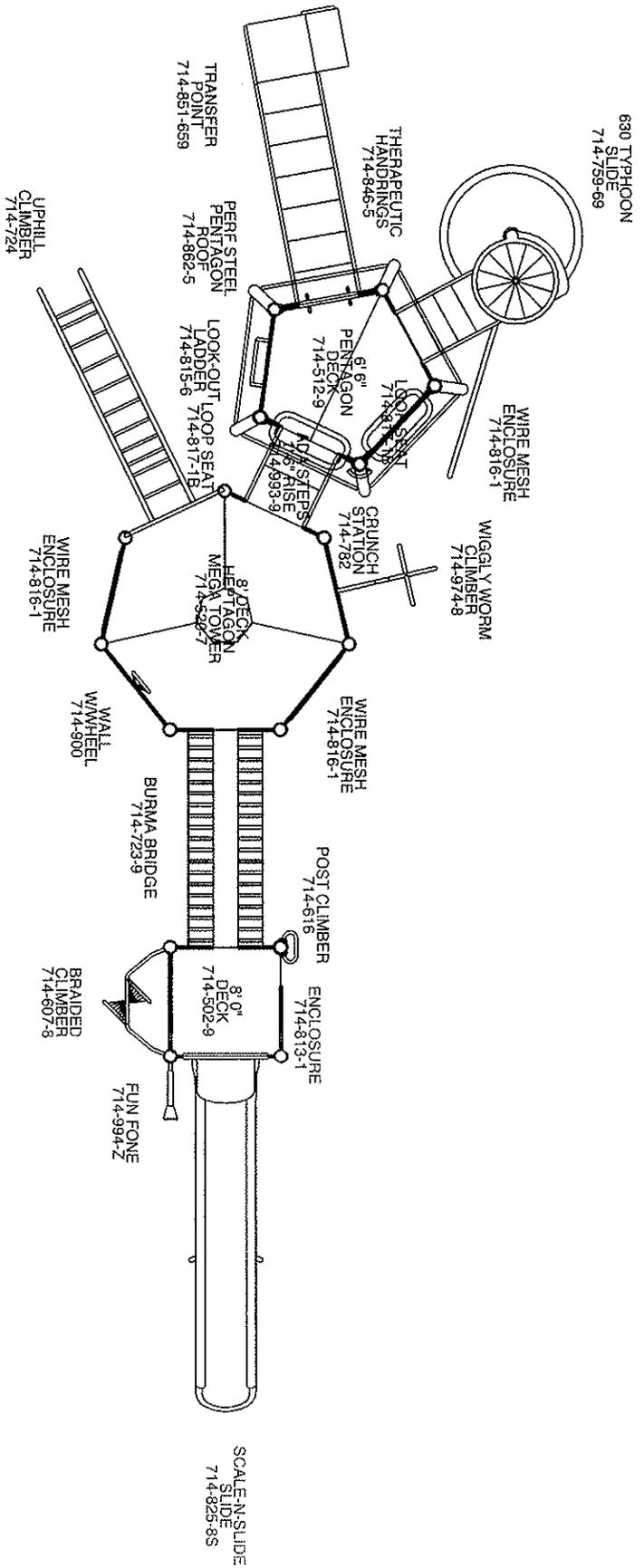
Mega Tower Playscape

Pathways of poured in place rubber surfacing. Remainder of playground area to contain engineered wood fiber surfacing.





# Level 2



THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1478.