



SACS

SOUTHWEST ALLEN COUNTY SCHOOLS

Addendum

ADDENDUM NO: 3

PROJECT: **2026 PLAYGROUND IMPROVEMENT PROJECT AT HAVERHILL, ABOITE, AND COVINGTON ELEMENTARY SCHOOLS**

CONTEXT PROJECT NO: 25-1943

DATE: 03/19/2026

BY: Liz Mooney

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

PART 1 – BIDDING AND CONTRACT REQUIREMENTS

- A. **UPDATE** 'Bid Form A' to include Synthetic turf playmounds as an **ALTERNATE** under Playground Turf.

PART 2 – SPECIFICATIONS

- A. The following Specification Sections have been updated to **ADD** Approved Equals and **CLARIFY** model numbers for playground equipment.
 - 1. Section 11 68 00 'Play Equipment'
 - a. Clarified numbering of equipment within Section 2.1.A to match Summary List.
 - b. Updated Playground Equipment Sections 2.1.A.1-13, 2.1.A.15-18, 2.1.A.20-22, 2.1.A.24 with Approved Equals and added clarifying Model Numbers.
 - c. Removed synthetic turf play mounds.
- B. The following Specification Section has been updated to **ADD** Approved Equals and **ADD** synthetic turf play mound products.
 - 1. Section 32 18 16 'Playground Protective Surfacing'
 - d. Added all Synthetic Turf Play Mounds to this specification section.
 - e. Added approved equals.

PART 3 – DRAWINGS

No Changes to the Drawings within this Addendum.

Addenda

PART 4 – QUESTIONS & ANSWERS

1.Q. The Playground Equipment specification lists various styles of ‘Playmounds’ as base bid requirements. Is the Owner aware your basis-of-design manufacturer is declining to provide pricing to other respondents?

1.A. Yes, we have become aware that some vendors may be restricting who they engage with pricing. The Owner may choose to take that into consideration as part of evaluating Best Value. In the meantime, specifications have been updated to approve more than one vendor for similar mound products.

2.Q. Based upon the availability of ‘Playmounds’ from our previous question, can we custom-build playmounds rather than utilize a catalog-type product?

2.A. It is possible to successfully custom-build mounds. That said, the Owner’s attorney directed us to distinctly separate products from labor to comply with bid statutes. The field customization of a mound could cross into the Public Works / Installation realm where the carpet + pad system is a product response and the substructure of the mound would become a material and labor exercise in the field.

In an attempt to add clarity during bid analysis, Context will adapt the Contract as follows:

A. Respondents shall price Playmounds within the ‘Playground Turf’ bids rather than with playground equipment. See enclosed Bid Form updates.

B. Playmounds shall be identified as Alternate Bid items. See enclosed ‘Bid Form A – Playground Turf’ for such alternates. Note that playmounds remain a top priority for the design intent and experience of the users.

C. The Owner desires one of the pre-approved playmound products to keep bid analysis as clean as possible. However, SACS will not restrict the opportunity to customize a solution. Respondents choosing to customize playmounds rather than utilize pre-approved, catalog-type products shall list the cost of the carpet + pad in the Bid Form space provided for the Alternate Bid, PLUS write-in a note below that alternate indicating the substructure of the mound is assumed to be field constructed. The Owner reserves the right to determine Best Value in analyzing responses.

3.Q. Do the turf estimates need to coordinate with the critical fall heights of equipment?

3.A. Yes, turf estimates need to match critical fall heights of the basis of design playground solution. Any minor deviations to conform to the final selected play vendor shall be provided at no additional cost.

4.Q Which bonds apply to the playground equipment and turf responses?

4.A. Bonds (bid, performance, payment, etc.) are only required for general trades.

Addenda

5.Q Is there a digital option for submitting bids?

5.A. *No. Sealed bids for Bid Form A will be received at 4810 Homestead Rd, Fort Wayne, IN 46814 until 11am local time on March, 24th 2026. Sealed bids for Bid Form B will be received at 4810 Homestead Rd, Fort Wayne, IN 46814 until 11am local time on April, 7th 2026.*

END OF ADDENDUM 3

To: Metropolitan School District of Southwest Allen County
4824 Homestead Road
Fort Wayne, IN 46814

From (Bidder): _____

Address: _____

Telephone No.: _____

Date of Bid Preparation: _____, 2026.

The undersigned, having become familiar with all conditions of the project sites, and having examined and become fully cognizant of the Project Manual and all associated Drawings and Addenda, hereby agrees to furnish all labor, materials, equipment, fixtures and incidentals required for the construction of the Project in conformance with the intent of the Construction Documents.

This specific Bid Form is related solely to providing PLAY EQUIPMENT + PLAY TURF components of the project. Installation of those products, as well as General Trades sitework and development, shall utilize a separate Bid Form.

Pursuant to these requirements, the undersigned submits the following Bids/Proposals, which include all applicable taxes, overhead and profit. Multiple combinations Bids/Proposals are under consideration. The Owner reserves the right to award any combination of responses they believe create Best Value for the District. Analysis of Bids/Proposals will be conducted by district administrators and building leaders in concert with their design consultant. Their decision(s) shall be considered final and binding, and Respondents agree by submission of a Bid/Proposal to these stipulations.

Various Playground Equipment and Playground Surfacing manufacturers are invited to respond, as depicted within the Bid Form. The Owner reserves the right to determine Best Value and may choose different vendors for each facility.

To assist in identifying play value, play experiences, and other related criteria, Respondents shall provide a written memo alongside their response that identifies no less than the following supplemental details:

- Equipment Lead time
- Play capacity for each Composite Structure
- Quantity of Elevated Play features
- Quantity of Ground-level Play features
- Warranty duration for each piece of equipment

(remainder of this sheet intentionally blank, see individual pages per facility)

BASE PROPOSAL 1A – HAVERHILL ELEMENTARY / PLAYGROUND EQUIPMENT, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Equipment shown in Plans and Specifications. Components shall include the physical equipment, all hardware and fasteners, and any products necessary to implement the playground equipment systems. Installation of the equipment/furnishings shall be considered outside the 1A co-op response. See Base Proposal 1B – PLAYGROUND TURF for related play surfacing treatments. Price shall be lump sum.

LSI	_____	Dollars (\$_____.)
Kompan	_____	Dollars (\$_____.)
Playworld	_____	Dollars (\$_____.)
Playcraft	_____	Dollars (\$_____.)
Gametime	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 1A, The differential cost to provide all equipment, hardware and fasteners to implement a 20'x20' Rectangular Hip Shelter, as manufactured by Cedar Forest Products, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

ALTERNATE BID 2A, The differential cost to provide all equipment, hardware and fasteners to implement a "We-Go-Swing," as manufactured by LSI, at Haverhill Elementary only. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

BASE PROPOSAL 1B – HAVERHILL ELEMENTARY / PLAYGROUND TURF, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Turf shown in Plans and Specifications. Components shall include the carpet, padding, and all products necessary to implement a turn-key turf system. Installation of the turf shall be considered outside the 1B co-op response. See Base Proposal 1A – PLAYGROUND EQUIPMENT for related play surfacing treatments. Price shall be lump sum.

ForeverLawn	_____	Dollars (\$_____.)
CSSS, LLC	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 1B, The differential cost to provide all synthetic turf play mounds, as manufactured by ForeverLawn, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

BASE PROPOSAL 2A – ABOITE ELEMENTARY / PLAYGROUND EQUIPMENT, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Equipment shown in Plans and Specifications. Components shall include the physical equipment, all hardware and fasteners, and any products necessary to implement the playground equipment systems. Installation of the equipment/furnishings shall be considered outside the 2A co-op response. See Base Proposal 2B – PLAYGROUND TURF for related play surfacing treatments. Price shall be lump sum.

LSI	_____	Dollars (\$_____.)
Kompan	_____	Dollars (\$_____.)
Playworld	_____	Dollars (\$_____.)
Playcraft	_____	Dollars (\$_____.)
Gametime	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 2A, The differential cost to provide all equipment, hardware and fasteners to implement a 20'x20' Rectangular Hip Shelter, as manufactured by Cedar Forest Products, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

BASE PROPOSAL 2B – ABOITE ELEMENTARY / PLAYGROUND TURF, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Turf shown in Plans and Specifications. Components shall include the carpet, padding, and all products necessary to implement a turn-key turf system. Installation of the turf shall be considered outside the 2B co-op response. See Base Proposal 2A – PLAYGROUND EQUIPMENT for related play surfacing treatments. Price shall be lump sum.

ForeverLawn	_____	Dollars (\$_____.)
CSSS, LLC	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 2B, The differential cost to provide all synthetic turf play mounds, as manufactured by ForeverLawn, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

BASE PROPOSAL 3A – COVINGTON ELEMENTARY / PLAYGROUND EQUIPMENT, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Equipment shown in Plans and Specifications. Components shall include the physical equipment, all hardware and fasteners, and any products necessary to implement the playground equipment systems. Installation of the equipment/furnishings shall be considered outside the 3A co-op response. See Base Proposal 3B – PLAYGROUND TURF for related play surfacing treatments. Price shall be lump sum.

LSI	_____	Dollars (\$_____.)
Kompan	_____	Dollars (\$_____.)
Playworld	_____	Dollars (\$_____.)
Playcraft	_____	Dollars (\$_____.)
Gametime	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 3A, The differential cost to provide all equipment, hardware and fasteners to implement a 20'x20' Rectangular Hip Shelter, as manufactured by Cedar Forest Products, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

BASE PROPOSAL 3B – COVINGTON ELEMENTARY / PLAYGROUND TURF, utilizing either a co-operative purchasing alliance or most cost effective straight-pricing opportunity available to the Owner, provide all Playground Turf shown in Plans and Specifications. Components shall include the carpet, padding, and all products necessary to implement a turn-key turf system. Installation of the turf shall be considered outside the 3B co-op response. See Base Proposal 3A – PLAYGROUND EQUIPMENT for related play surfacing treatments. Price shall be lump sum.

ForeverLawn	_____	Dollars (\$_____.)
CSSS, LLC	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 3B, The differential cost to provide all synthetic turf play mounds, as manufactured by ForeverLawn, or approved equal prior to bidding. Price shall be lump sum.

(Write In) _____ Dollars (\$_____.)

COMBO PROPOSAL 4A – ALL PLAYGROUND EQUIPMENT, in lieu of individual facility pricing reflected in proposals 1A through 3A, provide all **base** scope Playground Equipment for all facilities in a single, combined response. Price shall be lump sum.

LSI	_____	Dollars (\$_____.)
Kompan	_____	Dollars (\$_____.)
Playworld	_____	Dollars (\$_____.)
Playcraft	_____	Dollars (\$_____.)
Gametime	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

COMBO PROPOSAL 4B – ALL PLAYGROUND TURF, in lieu of individual facility pricing reflected in proposals 1B through 3B, provide all **base** scope Playground Turf for all facilities in a single, combined response. Price shall be lump sum.

ForeverLawn	_____	Dollars (\$_____.)
CSSS, LLC	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)
(Write In)	_____	Dollars (\$_____.)

ALTERNATE BID 4B, The differential cost to provide all synthetic turf play mounds, as manufactured by ForeverLawn, or approved equal prior to bidding. Price shall be lump sum.

(Write In)	_____	Dollars (\$_____.)
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(remainder of this sheet intentionally blank, see individual pages per facility)

Bidders shall attach to this Bid Form the following documents:

- A fully executed Form 96, including the Non-Collusion Affidavit
- Appropriate Bid Security, as described in the Notice to Bidders

Time of Completion:

Presuming a Notice to Proceed is issued no later than April 8, 2026; the undersigned affirms that all products will be delivered on the following schedule. Time is of the essence and duration shall be part of determining Best Value:

<u>Haverhill Elementary</u>	_____	<i>write in date(s) anticipated for equipment/product delivery</i>
<u>Aboite Elementary</u>	_____	<i>write in date(s) anticipated for equipment/product delivery</i>
<u>Covington Elementary</u>	_____	<i>write in date(s) anticipated for equipment/product delivery</i>

Staging may begin on May 20, 2026. Mobilization of equipment and any construction activities that could disrupt daily use of the site shall occur on or immediately after May 28, 2026.

Should a Respondent be capable of achieving more aggressive substantial completion commitments for one or more facilities, please indicate so in a written memo enclosed with your response.

Allowance:

Note that **Allowance No. 1** is NOT REQUIRED as part of Playground Equipment + Playground Turf product responses. Only the Installation + General Trades responses require the Allowances.

Addenda:

Receipt of Addenda issued to the Drawings and Project Manual is hereby acknowledged:

Addenda Nos.: _____

Supervisory Assignments:

Please indicate below the names of individual(s) responsible for Project Supervision:

Individuals and Sole Proprietors complete below:

IN TESTIMONY WHEREOF, the Bidder (an Individual) has hereunto set his hand this _____ day of _____, 2026.

Signature of the Individual Bidder: _____

Firms and Partnerships complete below:

IN TESTIMONY WHEREOF, the Bidder (a firm or partnership) has hereunto set their hands this _____ day of _____, 2026.

Name of firm or partnership: _____

By: _____

By: _____

Subscribed and Sworn to before me by
this _____ day of _____, 2026.

My commission expires: _____

Corporations complete below:

IN TESTIMONY WHEREOF, the Bidder (a Corporation) has caused this proposal to be signed by its President and Secretary, and affixed its Corporate Seal, this _____ day of _____, 2026.

Name of corporation: _____

President: _____

Secretary: _____

END OF SECTION

SECTION 11 68 00 –PLAYGROUND EQUIPMENT

PART 1 - GENERAL

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes playground equipment consisting of the following type of play structures:
1. Large Composite Structure #1 (Age 5-12)
 2. Large Composite Structure #2 (Age 5-12)
 3. Large Composite Structure #3 (Age 5-12)
 4. Small Composite Structure with Slide (Age 2-5)
 5. Standing Group Spinner
 6. 18' Double Straight Track Ride with Platforms
 7. Seated Spinner (Age 2-5)
 8. Seated Spinner (Age 5-12)
 9. Standing Spinner
 10. Group Spinner
 11. Group Bouncer
 12. Group See-saw
 13. Group Swing
 14. ADD ALTERNATE: Accessible Group Swing
 15. 2 Bay Arch Swing, 4 Belts
 16. 3 Bay Arch Swing, 4 Belts, 2 Molded Bucket Seats with Harness
 17. 3 Bay Arch Swing, 4 Belts, 1 Group Swing
 18. 3 Bay Arch Swing, 5 Belts, 1 Molded Bucket Seat with Harness
 19. Communication Board
 20. Musical Instrument, Type 1
 21. Musical Instrument, Type 2
 22. EPDM Half Sphere Steppers
 23. Sway Bench
 24. ADD ALTERNATE: 20'x20' Shade Structure
- B. Related Sections include the following:
1. Division 1 Section "Summary of Work" for Owner Provided Equipment.
 2. Division 3 Section "Cast-in-Place Concrete" for concrete footings
 3. Division 31 Section "Earth Moving" for excavation and grading work.
 4. Division 32 Section "Playground Protective Surfacing" for playground surface.
 5. Division 33 Section "Playground Subdrainage" for play surface underdrain systems.

1.3 DEFINITIONS

- A. Composite Play Structures: According to ASTM F 1487, this means "two or more play structures, attached or functionally linked," creating one integral unit with more than one play activity.

- B. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."
- C. Fall Height: According to ASTM F 1487, this means "the vertical distance between a designated play surface and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.
- D. HDPE: High-density polyethylene.
- E. IPEMA: International Play Equipment Manufacturers Association.
- F. MDPE: Medium-density polyethylene.
- G. Play Structure: According to ASTM F 1487, this is "a free-standing structure with one or more components and their supporting members."
- H. Protective Surfacing: According to ASTM F 1487, this means impact-attenuating "materials to be used within the use zone of any playground equipment" for playground surface systems.
- I. PVC: Polyvinyl chloride.
- J. Transfer Point: According to ASTM F 1487, this is "a platform or deck along an accessible route of travel or an accessible platform provided to allow a child in a wheelchair to transfer from the chair onto the equipment."
- K. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated Contractor Provided. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Coordination Drawings: Layout plans and elevations drawn to scale and coordinating playground equipment with playground surface systems. Show playground equipment locations, use zones, fall heights, extent of protective surfacing, and Critical Heights.
- C. Color Renderings for Initial Selection: Indicate various material color options and 3D study models of proposed play equipment. Anticipate revisions necessary to achieve Owner's approval of color selections.
- D. Samples for Initial Selection: Manufacturer's color charts or 6-inch (150-mm) lengths of actual units showing the full range of colors and textures available for components with factory-applied color finishes.
- E. Installer Certificates: Signed by manufacturer certifying that installers comply with requirements.
- F. Manufacturer Certificates: Signed by manufacturers certifying that they comply with requirements.

- G. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:
 - 1. Paints and similar finishes.
 - 2. Recycled plastic.
- H. Product Test Reports: From a qualified testing agency indicating playground equipment complies with requirements, based on comprehensive testing of current products.
- I. Field Quality-Control Report: Indicate compliance of playground and installed playground equipment and components with requirements.
- J. Maintenance Data: For playground equipment and finishes to include in maintenance manuals specified in Division 1.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer of playground equipment.
- B. Manufacturer Qualifications: A firm whose playground equipment components meet or exceed the latest requirements as published in the latest version of ASTM F 1487 'Standard Consumer Safety Performance for Playground Equipment for Public Use'.
- C. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.
- D. Standards and Guidelines: Provide playground equipment complying with or exceeding requirements in the latest versions of the following:
 - 1. ASTM F 1487.
 - 2. Consumer Product Safety Commission Publication No. 325, "Public Playground Safety Handbook."
 - 3. ASTM 2373.
 - 4. ASTM F 1292.
 - 5. ASTM F 1951.
 - 6. ASTM F3313.

1.6 COORDINATION

- A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of protective surfacing specified herein. Sequence work so protective surfacing can be installed immediately after concrete footings have set.
- B. The Contractor shall protect all work and related materials throughout construction. The Contractor will be responsible for remedying any damages, vandalism, or theft incurred on the project site prior to the issuance of a Substantial Completion certificate from the Landscape Architect.

- C. Prime Contractor shall be responsible for field staking all play equipment from all manufacturers prior to commencing with footings. Careful coordination with each vendor is essential to ensuring proper safety clearance. Do not proceed with footings until validating compliance.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. Products: Subject to compliance with requirements, provide and install complete play features as follows:
1. Large Composite Structure #1
 - a. Basis of Design: Custom 10' Play Odyssey Tower and Play Booster with Ramps, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. **Approved Equal: Custom Three Tower Mega Deck as manufactured by Kompan Inc., contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Custom Altuf Tower Structure as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Custom Structure 26-6971A as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: Custom Structure Model# R50AE5FBA as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Custom Structure Model# 127-214932-1 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
 2. Large Composite Structure #2
 - a. Basis of Design: Dynamic Flow, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – Structure #R5034789A, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830
 - c. **Approved Equal: Custom Ramped Structure with Slides as manufactured by Kompan Inc., contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - d. **Approved Equal: Custom Powerscape Structure as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - e. **Approved Equal: Custom Structure 26-6972A as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - f. **Approved Equal: Custom Structure Model# R5034789A, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - g. **Approved Equal: Custom Structure Model# 127-214930-1 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
 3. Large Composite Structure #3
 - a. Basis of Design: Custom Composite Post and Deck Structure with 12' Play Odyssey Tower and 8' Super Netplex Tower., as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. **Approved Equal: Custom Giant Base with Monkey Trail Mega Deck as manufactured by Kompan Inc., contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Custom Altuf Tower Structure 2 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**

- d. **Approved Equal: Custom Structure 26-6970B as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
- e. **Approved Equal: Custom Structure Model# R50A1814A, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
- f. **Approved Equal: Custom Structure Model# 127-214931-1 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
- 4. **Small Composite Structure with Slide**
 - a. **Basis of Design: Weevos., as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.**
 - b. **Approved Equal: Wondertrail as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Modern City V series MCV1RI as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Bambino act-1302 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: Custom 2-5 Structure RV5B192EA as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Level-X Launch Model# 560-2718 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
- 5. **Standing Group Spinner**
 - a. **Basis of Design: Topsy Turny® Spinner Model #205800, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.**
 - b. **Pre-Approved Equal: Inclusive Net Twister Model #COR20330, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: VistaTreeTop1 Model#5958SP, as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Cone Spinner with Floor zzxx0911 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: SpinMax Tower 2476 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Spintetic Spinner Model# 560-2611 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
- 6. **18' Straight Double Track Ride with Platforms**

Basis of Design: Track Ride 18' Straight Model with Platforms, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.

 - a. **Approved Equal: Single Straight Track Ride with Platform pcm111531 as manufactured by Koman Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - b. **Approved Equal: Double Track Ride with Platform 81737 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - c. **Approved Equal: Double Zoomtrax with disc seat with platform, zzxx1136 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - d. **Approved Equal: Dual Track Ride with Platforms R502B604A as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - e. **Approved Equal: Custom Dual Kid Coaster with Platforms Model# 127-214930-1 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**

7. Seated Spinner – Age 2-5
 - a. Basis of Design: Saddle Spinner Model #152179, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. **Approved Equal: Spinner Plate ele500008 as manufactured by Koman Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Tilted Whirlwind seat 6142 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Cozy Cocoon zzxx0483 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: Spinner seats pc2454 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Kidforce Spinner Model# 560-2573 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
8. Seated Spinner – Age 5-12
 - a. Basis of Design: Chill Spinner Model #247189, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. **Approved Equal: Spinner Bowl ele400024 as manufactured by Koman Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Sensory Wave Seat 3274 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Flexgrip Rocker zzxx1482 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: SpinMax Gyro Seat 2458 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Aro Spinning Chair Model# 560-2735 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
9. Standing Spinner
 - a. Basis of Design: Curva Spinner Model #247179A, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – Spica 3 Model #GXY8016, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056.
 - c. Pre-Approved Equal – Turn n Twist Model #ZZXX1362, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. **Approved Equal: PCM160 Scooter Carousel as manufactured by Koman Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - e. **Approved Equal: Solo Spinner 6246 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - f. **Approved Equal: Turn ‘n Twist as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - g. **Approved Equal: Stand-n-Spin Enclosed pc2474 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - h. **Approved Equal: Swift Twist Spinner Model# 560-2780 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
10. Group Spinner
 - a. Basis of Design: We-Go-Round® mode #248819, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.

- b. Pre-Approved Equal - Universal Carousel Model #PCM157, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.
 - c. Pre-Approved Equal – Spin Station, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. Pre-Approved Equal – Inclusive Whirl Model #6262, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. **Approved Equal: Celebration Spinner pc2497-c as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Inclusive Orbit Model# 560-0075 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
11. Group Bouncer
- a. Basis of Design: ReviRock Bouncer Model #295696, as manufactured by Landscape Structures Inc., Delano, MN 55328, PlayPros Phone: 502.395.3234, or approved equal prior to bidding.
 - b. **Approved Equal: Blazer 3I3400021 as manufactured by Koman Inc., Contact Recreation inSites, Phone: 317.201.7056, or approved equal prior to bidding.**
 - c. **Approved Equal: Duo Rocker 6377 as manufactured by Gametime, contact Sinclair Recreation, Phone: 616.392.7441.**
 - d. **Approved Equal: Unity Rocker zzxx0193 as manufactured by Playworld, contact Midstates Recreation, Phone: 260.224.4145.**
 - e. **Approved Equal: SpinMax Go-Round pc2477 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Vero Model# 560-0074 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
12. Group See-saw
- a. Basis of Design: We-Saw Model #186490A, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – Inclusive Multi Seesaw Model #PCM162, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056.
 - c. Pre-Approved Equal – **Quattro Seesaws zzxx0598**, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. Pre-Approved Equal – RoxAll See-saw, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. Pre-Approved Equal – **Turbo-Toter pc4232**, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.
 - f. **Approved Equal: Orb Rocker Model# 570-2745 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
13. Group Swing
- a. Basis of Design: Oodle Swing Model #173592, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal –Nest Model #KSW922 - 20448300, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056.
 - c. Pre-Approved Equal – Unity Basket Swing Model #350-BASKET, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. Pre-Approved Equal – Arch Swing (Galvanized) Model #5058, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. **Approved Equal: Disc Swing pc2015 as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: Cirrus Swing Model# 550-0225 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**

14. ADD ALTERNATE: Accessible Group Swing
 - a. Basis of Design: We-Go-Swing, **with ramp** Model #277778, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
15. 2 Bay Arch Swing, 4 Belts
 - a. Basis of Design: 2 Bay Arch Swing with 4 belts, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – 2 Bay Swing with 4 Belts **Model #KSW924-20448299**, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056.
 - c. Pre-Approved Equal – 2 Bay Swing with 4 Belts, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. Pre-Approved Equal – 2 Bay **Primetime** Swing with 4 Belts, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. **Approved Equal – 2 Bay with 4 Belts Model# SWG2123+AB/1, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.**
 - f. **Approved Equal: 5” OD Arch Swing Frame with 4 Belt Seats, as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
16. 3 Bay Arch Swing, 4 Belts, 2 Molded Bucket Seats with Harness
 - a. Basis of Design: 3 Bay Arch Swing with 4 belts and 2 Molded Bucket seats with harness, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – 3 Bay with belts and **2 Inclusive swings Model#KSW926-20448297 with harness**, as manufactured by Kompan Inc., Contact Recreation inSites, Phone 317.201.7056.
 - c. Pre-Approved Equal – 3 Bay with belts and 2 ADA bucket sets with harness, as manufactured by Playworld, Contact Midstates Recreation, Phone 260.224.4145.
 - d. Pre-Approved Equal – 3 Bay **Primetime Swing** with belts and 2 **Adaptive** ADA bucket sets with harness, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. Pre-Approved Equal – 3 Bay with belts and 2 ADA bucket sets with harness **Model# SWG2123+AB/2**, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.
 - f. **Approved Equal: 5” OD Arch Swing Frame with 4 Belt Seats and 2 Freedom Swing Seats, as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
17. 3 Bay Arch Swing, 4 Belts, 1 Group Swing
 - a. Basis of Design: 3 Bay Arch Swing with 4 belts and 1 Oodle swing, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.
 - b. Pre-Approved Equal – 3 Bay Swing with 4 Belts and 1 **Shell nest (Model KSW926-20448296)**, as manufactured by Kompan Inc., Contact Recreation inSites, Phone 317.201.7056.
 - c. Pre-Approved Equal – 3 Bay Arch Swing with 4 Belts and 1 group swing, as manufactured by Playworld, Contact Midstates Recreation, Phone 260.224.4145.
 - d. Pre-Approved Equal – 3 Bay **Primetime Arch** Swing with 4 Belts and 1 group swing, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. Pre-Approved Equal - **3 Bay with 4 Belts and 1 Disc Swing Model# SWG313010+AB**, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.
18. 3 Bay Arch Swing, 5 Belts, 1 Molded Bucket Seat with Harness
 - a. Basis of Design: 3 Bay Arch Swing with 5 belts and 1 molded bucket seat with harness, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.

- b. Pre-Approved Equal – 3 Bay Arch Swing with 5 belts and 1 Inclusive seat with harness **Model #KSW20448298**, as manufactured by Kompan Inc., Contact Recreation InSites, Phone 317.201.7056.
 - c. Pre-Approved Equal – 3 Bay Arch Swing with 5 belts and 1 ADA bucket seat with harness, as manufactured by Playworld, Contact Midstates Recreation, Phone 260.224.4145.
 - d. Pre-Approved Equal – 3 Bay **Primetime Arch** Swing with 5 belts and 1 **Adaptive** ADA bucket seat with harness, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
 - e. Pre-Approved Equal – 3 Bay Arch Swing with 5 belts and 1 ADA bucket seat with harness **Model# SWG2123+AB**, as manufactured by Playcraft Systems, Contact CRG, Phone: 317.776.7830.
 - f. **Approved Equal: 5” OD Arch Swing Frame with 5 Belt Seats and 1 Freedom Swing Seats, as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
19. Communication Board
- a. Basis of Design: Symbol Communication Sign with 2 Posts Model #355992, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding
 - b. Pre-Approved Equal – Communication Board Model #PCM003721, as manufactured by Kompan Inc., Contact Recreation inSites, Phone: 317.201.7056.
 - c. Pre-Approved Equal – Communication Board (Single) Model #ZZXX0847, as manufactured by Playworld, Contact Midstates Recreation, Phone: 260.224.4145.
 - d. Pre-Approved Equal – Communication Panel Model #6375, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
20. Musical Instrument #1
- a. Tenor Tree Model **#TREE-T-IG**, as manufactured by Freenotes Harmony Park, Chattanooga, TN 37402, Phone: 833.262.1569, or approved equal prior to bidding.
 - b. **Approved Equal: Rhapsody Cascata Bells DB, Model# 250340A, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.**
 - c. **Approved Equal: Sylvan Bells-Tree Model# PP-STRE-S-GF as manufactured by Percussion Play, contact Snider Recreation, Phone: 800.888.2889.**
21. Musical Instrument #2
- a. Freenotes Flower Chimes, **Model # #FWR-T-IG-T, FWR-O-IG-T, FWR-I-IG-T** as manufactured by Freenotes Harmony Park, Chattanooga, TN 37402, Phone: 833.262.1569, or approved equal prior to bidding.
 - b. **Approved Equal: Rhapsody Goblet Drum DB, Model# 214443A, Rhapsody Kettle Drum DB, and Rhapsody Tongue Drum w/o Mallet DB, as manufactured by Landscape Structures Inc., Delano, MN, contact PlayPros, Phone: 317.292.7066, or approved equal prior to bidding.**
 - c. **Approved Equal: Harmony Flowers, Model# PP-HFLO-A5-GF, PP-HFLO-G5-GF, PP-HFLO-E5-GF as manufactured by Percussion Play, contact Snider Recreation, Phone: 800.888.2889.**
22. EPDM Half Sphere Steppers
- a. Basis of Design: AQUASEAL Half Play Sphere (6) 24” Half Play Sphere and (3) 30” Half Play Sphere, as manufactured by AQUASEAL, Contact PlayPros Phone: 502.395.3234, or approved equal prior to bidding.
 - b. Pre-Approved Equal: EUROFLEX® Half Balls: (6) 500mm EDPM and (3) 695mm EDPM, as manufactured by EUROFLEX®, Contact Recreation InSites Phone: 317.201.7056, or approved equal prior to bidding.
 - c. **Approved Equal – Half Sphere, Multiple sizes, Model #6094SP, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.**

- d. **Approved Equal: FLEX Balls - EPDM Half Spheres, Multiple Sizes, Model# R505AEC9A, as manufactured by Playcraft Systems, contact CRG, Phone: 317-776-7830.**
- 23. Sway Bench
 - a. Basis of Design: Sway Bench, as manufactured by Gametime, Contact Sinclair Recreation, Phone: 616.392.7441, or approved equal prior to bidding.
 - b. **Pre-Approved Equal: Inground Estate Diamond 6' Swinging Bench, #SW400D, Wabash Valley, Dallas Fort Worth, TX 75261, Phone: 800-253-8619.**
 - c. **Approved Equal: Studio Collection 6' Swinging Bench Model# 580-1446 as manufactured by Burke, contact Snider Recreation, Phone: 800.888.2889.**
- 24. ADD ALTERNATE: 20'x20' Shade Structure
 - a. Basis of Design: 20' x 20' Rect. Hip Shelter, as manufactured by Cedar Forest Products. Contact Recreation Insites, Fishers, IN. Phone:317-617-1740, or approved equal prior to bidding.
 - b. Pre-Approved Equal: 20'x20' Navajo Shelter without Cupola, as manufactured by Americana Building Products. Contact Commercial Recreation Group, Noblesville, IN, Phone: 317-776-7830.
 - c. **Approved Equal: 20' x 20' Steel Square Hip Model# S-SQR-20-4-MG-10206, as manufactured by Legend Structures, contact PlayPros, Phone: 317.292.7066.**
 - d. **Approved Equal: 20' x 20' Steel Square Shelter Model# TS-SQ20-04, as manufactured by RCP Shelters Inc., contact PlayPros, Phone: 317.292.7066.**
 - e. **Approved Equal: Steelworx Square Shelter – 20' Model# SQ-20-SW, as manufactured by Coverworx Recreational Architecture, contact Midstates Recreation, Phone: 260.224.4145.**
- B. Manufacturers and Substitutions: Subject to compliance with all intended play value, play experience, safety requirements, proven durability records, and advanced certifications deemed appropriate by the Landscape Architect, approved equals are encouraged as part of the bidding process. Bidders shall request approval of alternative products in writing during the bidding process. Complete and thorough submittals demonstrating equality and parity must be received no later than ten (10) days prior to the Bid Opening to be considered. Substitutions, if accepted, will be issued in writing by the Landscape Architect via addendum.
- C. Required Coordination: The successful Contractor shall be fully responsibility for coordination with respective playground manufacturers when attaching new product to existing structures. The Owner shall not bear any change orders or additional costs related to a lack of due diligence by the Contractor to ensure products included in their Bid are fully compliant with specifications, properly attach to existing structures, and maintain all warranties in force.

2.2 MATERIALS

- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and to comply with performance requirements for structural aluminum; mill finish or decorative baked-enamel powder-coat finish.
 - 1. Extruded Bars, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).
 - a. Tubing: Minimum yield strength of 35,000 lbf/sq. in. (241 MPa) and minimum tensile strength of 38,000 lbf/sq. in. (262 MPa).
 - 2. Cast Aluminum: ASTM B 179.
- B. Steel: Comply with the following:

1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, hot-dip galvanized.
 2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53 or electric-resistance-welded pipe complying with ASTM A 135, with a minimum yield strength of 30,000 lbf/sq. in. (205 MPa); hot-dip galvanized internally and externally.
 3. Steel Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513 or steel tubing fabricated from steel complying with ASTM A 569/A 569M and complying with the dimensional tolerances in ASTM A 500; with a minimum yield strength of 40,000 lbf/sq. in. (276 MPa) and a minimum tensile strength of 45,000 lbf/sq. in. (310 MPa); zinc coated internally and externally.
 4. Steel Sheet: Commercial steel sheet complying with ASTM A 569/A 569M.
 5. Galvanized Steel Sheet: Commercial steel sheet, hot-dip galvanized, complying with ASTM A 653/A 653M for not less than G60 (Z180) coating designation; mill phosphatized.
 6. Perforated Metal: From steel sheet not less than 0.0897-inch (2.3-mm) nominal thickness; manufacturer's standard perforation pattern.
- C. Opaque Plastic: Color impregnated, UV stabilized, and mold resistant.
1. Polyethylene: Fabricated from virgin plastic resin; rotationally molded MDPE with not less than 1/4-inch (6-mm) wall thickness or molded HDPE.
- D. Transparent Plastic: Clear, colorless abrasion-resistant, UV-stabilized monolithic polycarbonate sheet, not less than 3/16 inch (5 mm) thick.
- E. Post Caps: Cast aluminum.
- F. Platform Clamps and Hangers: Cast aluminum or not less than 0.105-inch- (2.7-mm-) nominal thickness, zinc-plated steel.
- G. Hardware: Manufacturer's standard, commercial-quality, corrosion-resistant, hot-dip galvanized steel, stainless steel, or aluminum; secure, vandal-resistant design.
- H. Fasteners: Manufacturer's standard, corrosion-resistant, hot-dip galvanized or plated steel, or stainless steel; permanently capped; theft resistant.
- I. Drainage Fill: Washed coarse-aggregate mixture of crushed stone, or crushed or uncrushed gravel.
- J. Galvanizing: Where indicated for steel components, provide the following protective zinc coating applied to components after fabrication:
1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent, not less than 0.3-mil- (0.0076-mm-) thick, zinc pigmented coating.
 2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.
- K. Paint and PVC-Coat Finish: Comply with 16 CFR 1303 for limiting lead in paint.

2.3 FABRICATION

- A. General: Provide sizes, strengths, thicknesses, wall thickness, and weights of components as indicated but not less than required to comply with structural performance and other requirements in ASTM F 1487. Factory drill components for field assembly. Unnecessary holes in components, not required for field assembly, are not permitted. Provide complete play structure, including supporting members and connections, means of access and egress, designated play surfaces, barriers, guardrails, handrails, handholds, and other components indicated or required to comply with referenced standards for equipment indicated.
- B. Rung Ladders, Stepladders, Stairways, Ramps, Step Platforms, and Transfer Points: Provide complete means of access and egress, with evenly spaced treads and rungs, easily grasped handholds, and slip-resistant foot surfaces; fabricated from manufacturer's standard materials complying with requirements indicated and compatible with frame and play surfaces. Provide closed risers and protective barriers if indicated or required by referenced standards.
- C. Play Surfaces: Provide elevated decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed and framed to withstand loads and allowing for drainage. Fabricate units in manufacturer's standard modular sizes and shapes, to form assembled play surfaces of dimensions indicated on Drawings.
 - 1. Elevated Play Surfaces: Provide protective devices, completely surrounding play surface except for access openings, if play-surface heights above protective surfacing exceed the following for use by age group indicated:
 - a. Unless otherwise indicated, provide guardrails or protective barriers if play-surface heights above protective surfacing exceed 30 inches (760 mm) and provide protective barriers if play-surface heights above protective surfacing exceed 48 inches (1200 mm).
 - 2. Stepped Play Surfaces: Provide protective infill between stepped platforms according to referenced standards.
- D. Protective Barriers: Fabricated from welded metal pipe or tubing with vertical bars and fabricated with any openings within the barrier and between the barrier and the play surface precluding passage of the torso probe according to the most stringent requirements in ASTM F 1487 and CPSC No. 325. Provide barriers designed to minimize the possibility of climbing, free of hand- and footholds, and configured to completely surround the protected area except for access openings. Extend barriers to the following height above the protected elevated surface for use by age group indicated:
 - 1. Top surface not less than 38 inches (970 mm) high.
- E. Guardrails: Fabricated from metal pipe or tubing, and wood. Provide guardrails configured to completely surround the protected area except for access openings. Extend guardrails over the following expanse above the protected elevated surface for use by age group indicated:
 - 1. Top surface at not less than 38 inches (970 mm) and lower edge at not more than 28 inches (710 mm).
- F. Handrails: Welded metal pipe or tubing, OD 0.125 inch (3.2 mm). Provide handrails at height between the following dimensions for use by age group indicated:
 - 1. 22 to 38 inches (560 to 970 mm).
- G. Structural Plastic Slide Chutes: Opaque plastic, unless transparent plastic is indicated.
- H. Roofs: Fabricated from metal and wood designed to be positioned overhead and to discourage and minimize climbing by users.

- I. Climbing Ropes, Cables, and Chains: Designed to be secured at both ends so length cannot be looped back on itself creating a loop with an inside perimeter greater than 5 inches (127 mm). Ropes, cables, and chains with length 7 inches (178 mm) or less may be attached at one end only.
- J. Flexible Climbers: Designed to securely connect flexible-climber components used as access to other components at both ends. For components with one end connected to ground level, provide flexible climbers designed with the anchoring connection to ground placed beneath the base of protective surfacing.
- K. Steel Components: Galvanized, galvanized and color coated, or color coated. Bare metal steel components are not permitted.
 - 1. Color-Coated Pipe and Tubing for Component Frames: PVC-coat or baked-enamel powder coat applied to steel or galvanized steel.

2.4 CAST-IN-PLACE CONCRETE

- A. Top of concrete footings shall be held 12" below finished grade within all protective play surfacing conditions. Account for any related impacts on overall footing depth to achieve Manufacturer's recommendations.
- B. Concrete Materials and Properties: Dry-packaged concrete mix complying with ASTM C 387 and mixed at the site with potable water, according to manufacturer's written instructions, to produce normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi (20.7 MPa), 3-inch (75-mm) slump, and 1-inch- (25-mm-) maximum size aggregate.

2.5 METAL FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating metal finishes.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.6 STEEL, ALUMINUM, AND GALVANIZED STEEL FINISHES

- A. Baked-Enamel Powder-Coat Finish: Manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness of 3 to 5 mils (0.075 to 0.127 mm).
- B. PVC Finish: Manufacturer's standard, UV-stabilized, mold-resistant, slip-resistant,-matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added, complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness of 80 mils (2 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.
 - 1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Landscape Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

3.3 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated on Shop Drawings.
 - 1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.
- B. Post and Footing Excavation: Hand-excavate holes for posts and footings to dimensions, profile, spacings, and in locations indicated on Drawings, in firm, undisturbed or compacted subgrade soil. Level bearing surfaces with drainage fill to required elevation.
- C. Post Setting: Set main-frame equipment posts in concrete footing. Protect portion of posts above footing from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Verify that posts are set plumb or at the correct angle and are aligned and at the correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
- D. Resilient Surface Installation: Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer's coordination drawings. Place separation fabric in excavated area, allowing for overlap as indicated. Place and compact crushed stone base to depth indicated in the Drawings.
- E. ADA Swing Alignment: The Contractor shall align newly installed ADA swings into the center of existing bays. Provide all labor and materials to properly fasten the system.
- F. Carefully coordinate surfacing depths with the General Contractor. Ensure that a uniform, evenly finished surface is achieved.

3.4 FIELD QUALITY CONTROL

- A. Arrange for playground equipment manufacturer's technical personnel to inspect playground and playground equipment and components during installation and at final completion and to certify compliance with the following:
 - 1. ASTM F 1487.
 - 2. CPSC No. 325.
- B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

3.5 CLEANING

- A. After completing playground equipment installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION

SECTION 32 18 16 – PLAYGROUND SURFACING – SYNTHETIC TURF

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes resilient playground surfacing systems.
- B. Related Sections include the following:
1. Division 03 Section "Cast-in-Place Concrete" for concrete footings.
 2. Division 11 Section "Playground Equipment" for installation of play equipment.
 3. Division 31 Section "Earth Moving" for excavation and grading work.
 4. Division 33 Section "Playground Subdrainage" for play surface underdrain systems.
- C. SCOPE OF WORK:
1. **Base Bid for playground surfacing shall include all padding and carpet material as depicted in plans. The Alternate bid shall include all synthetic turf play mounds. These items shall be included on Bid Form A.**
 2. **All labor and equipment necessary to install 100% coverage of synthetic turf surfacing as depicted in Plans, along with all synthetic turf play mounds shall be included on Bid Form B.**

1.3 DEFINITIONS

- A. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."
- B. Fall Height: According to ASTM F 2223, this means "the vertical distance between a designated play surface of the play equipment and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.
- C. Protective Surfacing: According to ASTM F1487, this means "materials to be used within the use zone of any playground equipment" for playground surface systems.
- D. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include installation details, material descriptions, profiles, colors and finishes.
- B. Samples for Initial Selection: Manufacturer's color charts and 6-inch (150-mm) square samples of actual surface materials.
- C. Product Test Reports:
 - 1. ASTM F 1292: Impact Attenuation Test Certification for the surface system to be installed in compliance with the Critical Fall Height as determined by the Playground Equipment to be installed in conjunction with the poured-in-place surfacing system.
 - 2. ASTM F 1951: Accessibility.
 - 3. ASTM D 2859: Flammability.
 - 4. ASTM D 2047: Coefficient of Friction.
 - 5. ASTM D 412: Tensile Strength.
 - 6. ASTM D 624: Tear Resistance.
 - 7. Permeability Coefficient: Five (5) feet per minute.
- D. Statement of Warranty for a minimum five-year period with detailed Warranty Claim requirements of the owner and specific procedures to be followed by the manufacturer in terms of response and repair of warranty claims.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: The installation of the poured-in-place product shall be completed by Manufacturer Certified Contractors or by direct employees of the Manufacturer's Installation Division.
- B. Manufacturer Qualifications: Manufacturer shall have installed playground surfacing systems for a minimum of five (5) years with no fewer than five (5) similar projects in scale.
- C. Standards and Guidelines: Provide synthetic turf surfacing complying with or exceeding the requirements in the latest versions in the following:
 - 1. Consumer Product Safety Commission Publication No. 325, "Public Playground Safety Handbook."
 - 2. ASTM F 2223
 - 3. ASTM F 2075 for Engineered Wood Fiber Surfacing
 - 4. ASTM F 2479 for Poured-in Place Rubber Surfacing
 - 5. ASTM F 3012 for Loose-Fill Rubber Applications
 - 6. ASTM F 1292
 - 7. ASTM F 3351
 - 8. ASTM F 1951

1.6 COORDINATION

- A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of resilient surfacing specified herein. Sequence work so resilient surfacing can be installed immediately after equipment installation is complete.
- B. Concrete footings have been identified in the Division 11- "Playground Equipment" specification as held below the top level of the stone base within all protective play surfacing conditions.

Account for any related impacts on overall footing depth and quantity of surfacing material to achieve CPSC guidelines.

PART 2 - PRODUCTS

2.1 PLAYGROUND SYNTHETIC TURF

- A. Description: All necessary material components and application shall be required to install a synthetic turf system. The turf system shall be composed of synthetic carpet wearing course filled with sand ballast and an impact attenuation pad underneath.
- B. Products:
1. Quality Assurance: The turf manufacturer shall have manufactured and marketed this system in the United States for a period of five (5) years. Install should be by a “certified” installer or by a competent installer using the instructions provided by the manufacturer. The turf system shall be designed to meet current ADA, CPSC and ASTM requirements. Acceptable substrates are: compacted crushed stone or other materials approved by the manufacturer.
 2. Submittals: Samples shall be submitted in all the colors available.
 3. Delivery, Storage and Handling: All materials shall be delivered in good condition in its original unopened package, bound and shrink wrapped with labels intact. All materials shall be protected from weather and the adhesive shall be stored on temperature of 40 degrees F or greater.
 4. Job Conditions: At the time of application ambient air temperature shall be 40 degrees F or greater. All materials shall be un-stacked and laid out prior to installation. All materials shall be protected from weather and other damage prior to application, during application and while glue is curing.
 5. Alternatives: The owner/architect shall approve any system or series prior to the bid date. Alternate information and samples shall be provided in writing. The series to be considered equal must meet the “Playground Grass Ultra” by ForeverLawn Inc.
 6. Sourcing: All components of the turf system shall be obtained from the turf manufacturer or its authorized distributors and shall be manufactured in the United States of America, and meet the standard specifications set herein.
 7. Materials:
 - a. Fill Requirement: Unless otherwise listed below, crumb rubber and sand per manufacturer’s recommended weight.
 - b. Impact Attention Pad: Pad shall be obtained from the turf manufacturer or its authorized distributor. Pad materials shall be either foam or rubber. Thickness for under play equipment shall be sized to meet or exceed critical fall height of play equipment throughout the use zone compliant to ASTM F 1292. Thickness of pad for areas outside of play equipment use zone shall be sized to meet or exceed critical fall height of 6’-0” compliant to ASTM F 1292 or ASTM F 3351.
 8. Testing: All turf shall meet the current guidelines from ASTM, CPSC, USGBC-LEED and ADA for fall height, weathering(Aging), Spread of Flames, Skid Resistance, ADA, Lead Content, R-Value, Reflectance/SRI & Emittance, Water Penetration and USGBC.
 9. Warranty: The manufacturer shall provide a standard five (5) year warranty or a ten (10) year pro-rated warranty.
- C. Manufacturer: Subject to compliance with requirements, provide ADA-compliant playground surfacing products by the following manufacturers, or approved equal prior to bidding.

1. Synthetic Play Turf
 - a. Playground Grass Ultra, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - b. Playground Grass™ EnduraZone High-Traffic Insert, as manufactured by ForeverLawn., Representative ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - c. Life Preserver Set 1-10 Funserts, as manufactured by ForeverLawn., Representative ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - d. Yellow Fish Funserts, as manufactured by ForeverLawn., Representative ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - e. **Log Steppers Wood Funserts, as manufactured by ForeverLawn., Representative ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.**
 - f. **Perma-Turf 55oz., as manufactured by Pro-Techs Surfacing, LLC., Contact Contact CRG, Phone: 317.776.7830 or approved equal prior to bidding.**
2. Synthetic Play Mounds
 - a. Arc Stepper Playmound – Right to left
 - 1) Basis of Design: Arc Steppers – right to left, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - 2) Approved Equal: Bean Mound Model# LF001, as manufactured by ID Sculpture, Gunnison, CO 81230, Phone: 970.641.1747
 - b. Arc Steppers Playmound – Left to Right
 - 1) Basis of Design: Arc Steppers – left to right, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - 2) Approved Equal: Bean Mound Model# LF001, as manufactured by ID Sculpture, Gunnison, CO 81230, Phone: 970.641.1747
 - c. Zigzag Stepper “S” Playmound
 - 1) Basis of Design: Zigzag Steppers “S” Design, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - 2) Approved Equal: Spine Mound Model# LF003, as manufactured by ID Sculpture, as manufactured by ID Sculpture, Gunnison, CO 81230, Phone: 970.641.1747
 - d. Large Playmound with Tunnel – 12’
 - 1) Basis of Design: Playmound with Tunnel – 12’, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - 2) Approved Equal: Tunnel Mound Model# LF004, as manufactured by ID Sculpture, Gunnison, CO 81230, Phone: 970.641.1747
 - e. Medium Playmound with Slide – 8’
 - 1) Basis of Design: Medium Playmound with Slide – 8’, as manufactured by ForeverLawn., Contact ForeverLawn Northeast Indiana, Email:

- marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
- 2) Approved Equal: Embankment Slide Model #91070 & Mesa 16 Mound Model# 6312, as manufactured by Gametime., Contact Sinclair Recreation, Phone: 616.392.7441.
- f. Mini-Playmounds – 4' with Balance Beam
- 1) Basis of Design: Mini-Playmounds – 4' with Balance Beam, as manufactured by ForeverLawn, Contact ForeverLawn Northeast Indiana, Email: marci@nein.foreverlawn.com, Phone: 260.257.7101, or approved equal prior to bidding.
 - 2) Approved Equal: Balance Mound Model# LF015, as manufactured by ID Sculpture, Gunnison, CO 81230, Phone: 970.641.1747

PART 3 - EXECUTION

3.1 PREPARATION

- A. The sub-base of the entire area to be surfaced shall be cleared of any foreign materials and treated with sterilizing spray products to completely eliminate growth of grass, weeds, etc.
- B. Protect all adjacent trees, equipment, pavement and wall surfaces from damage during surfacing installation.

3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated.
 1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of resilient surfacing.
- B. Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer's coordination drawings.
- C. The native sub-base shall be graded to allow for proper drainage that will prevent sub-base erosion.
- D. The native sub-base shall be compacted to a 95% rating.
- E. Carefully coordinate the finished grade of the subbase as it relates to the required fall height above. The Contractor will be accountable for achieving all required safety criteria.
- F. All sides of playground surfacing shall be bound by concrete curb or slab. Curbing shall be set at an acceptable grade level to permit proper drainage. Field coordinate as required.
- G. Crushed Stone Base:
 1. Synthetic Playground Turf: Installation of a minimum six (6) inch layer of #8 crushed stone shall be completed and compacted to a 95% rating and a $\pm 1/4$ " level when measured with a ten foot straight edge in any direction.
 2. Compaction shall be completed in two (2) lifts.

- H. Separation Fabric: A non-woven geotextile fabric shall be applied over the compacted and graded stone sub-base. The application of the poured in-place system shall be applied over the geotextile membrane.
- I. The system installer shall inspect the above work prior to installation of resilient surfacing materials.
- J. Resilient Surface System: Install in strict accordance with manufacturer's instructions, approved shop drawings and submittals, complying with critical fall height requirements. Carefully coordinate depths with the General Contractor to ensure the proper quantity of material is understood.
- K. Ensure the finished surface is fully accessible and compliant with ADA guidelines. Take care to properly compact all transitions from protective to paved surfacing.

3.3 FIELD QUALITY CONTROL

- A. Arrange for manufacturer's technical personnel to inspect playground surfacing during installation and at final completion and to certify compliance with the following applicable standards.
 - 1. ASTM F 3313
 - 2. ASTM F 1951
 - 3. CPSC Publication No. 325, "Public Playground Safety Handbook."
 - 4. ASTM F 1487.
- B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

3.4 CLEANING

- A. After completing surface installation, inspect the entire area. Remove debris and repair or replace effective materials.

END OF SECTION