



Halifax Regional
School Board

HALIFAX REGIONAL SCHOOL BOARD
In Partnership with the Halifax Regional Municipality
PARKS FACILITY DEVELOPMENT

TENDER #3807

PLAYGROUND SUPPLY AND INSTALLATION

Ash Lee Jefferson School
Sycamore Elementary School

Closing Date: ***TUESDAY, MARCH 8TH, 2016***
Closing/Opening Time: ***2:00:00 P.M.***

Closing Location:

Halifax Regional School Board
33 Spectacle Lake Drive
Dartmouth, N.S. B3B 1X7

HRSB Contacts:

Jennifer King, Buyer

Tel: (902) 464-2000 #2223

Fax: (902) 464-0161

School Locations:

Ash Lee Jefferson Elementary School 10 Lockview Rd,
Fall River, NS

Sycamore Lane Elementary School, 69 Sycamore Lane,
Lower Sackville, NS

HRM PROJECT MANAGER:

Steve Oakey

Phone (902) 490-4746

Email: oakeys@halifax.ca

A mandatory bidders' site meeting is scheduled for ***TUESDAY MARCH 1ST, 1:30 P.M. AT Ash Lee Jefferson Elementary proceeding to Sycamore Elementary.***

To obtain documents:

Download tender documents in .pdf format from the School Board's

Website: <http://www.hrsb.ca/about-hrsb/financial-services/purchasing/tenders/tender-listing>

The Halifax Regional School Board encourages equity and affirmative action programs.

The contract documents for this quotation, in order of precedence, are as follows:

- Supplementary Terms and Conditions
- General Requirements - Specified Price Tender
- Instruction to Bidders
- General Specifications
- Works and Specifications
- Details
- Form of tender

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HRSB/HRM

Ash Lee Jefferson and Sycamore Elementary School Playgrounds SUPPLY AND INSTALLATION

Tender # 3807

Prices are requested for the supply and installation of **Two (2) NEW PLAY STRUCTURE** one at Ash Lee Jefferson Elementary located at 10 Lockview Rd, Fall River and one located at Sycamore Lane Elementary at 69 Sycamore Lane Lower Sackville, as detailed later in these specifications.

A) GENERAL SPECIFICATIONS

1) NAMES OF PARTIES

The Owner under the terms of this Contract is the Halifax Regional Municipality in partnership with Halifax Regional School Board.

The Contractor under the terms of this Contract is the person or firm or Company whose tender has been accepted by the Owner and includes the Contractor's successors and permitted assigns.

The Project Manager under the terms of this Contract is the assigned HRM parks capital projects representative.

HRSB under the terms of this Contract means the Halifax Regional School Board.

2) FORM OF CONTRACT

The Contract shall be as per terms and conditions of this specification and associated drawings and documents.

3) DESCRIPTION OF SITE

The sites are located at :

Ash Lee Jefferson Elementary School 10 Lockview Rd, Fall River, N.S.

Sycamore Lane Elementary School, 69 Sycamore Lane, Lower Sackville

It is recommended that bidders visit the site in order to satisfy themselves as to the following:

- .1) Means of access to the site;
- .2) General location of the work area and of working and storage space available;
- .3) Conditions which may prevail on or adjacent to the site during construction;
- .4) Adjoining private/City fences, trees/shrubs, concrete/asphalt walkways; overhead and underground services, lawn areas, etc. which require protection during the progress of the works. Care must be taken to avoid disturbing these sites.

It is the Contractor's responsibility to arrange for all required utility locates at each respective site within this Contract. Cost to repair all damages to any utility caused by the Contractor through the execution of this Contract shall be borne by said Contractor.

- .5) Facilities to be provided for other contractors or workers of the Owner who may be employed during the progress of the works;
- .6) Surface condition and the nature of the ground and subsurface.

No allowance beyond the Contract Sum will be made for any alleged ignorance in respect of these matters.

4) PROGRAMME OF OPERATIONS

- .1) Project must be substantially complete within 10 weeks of receipt of purchase order, unless otherwise stipulated in writing.

Substantial Completion has been reached: *“when the Work is ready for safe use or is being used for the purpose intended and has been accepted as such (in writing) by the Project Manager.”*

- .2) The pre-construction meeting is mandatory. Construction cannot commence until the pre-construction meeting has been held.
- .3) Possession of the site will be given to the Contractor at the commencement of construction and remain until construction is complete.
- .4) A \$100.00/day penalty will be deducted from the contract price for each day the project extends beyond the stipulated substantial completion date. Delays in shipping any components required for the completion of the project will not be considered as a legitimate reason for delay.
- .5) All of the above works shall proceed only during good weather conditions. The Project Manager reserves the right to stop all work during periods of inclement weather. In the event of work stoppage, or approved change orders (see sections 5 and 6 below), the stipulated completion date may be adjusted accordingly and agreed revised date provided in writing.

5) WORK STOPPAGE

- .1) In the event of inclement weather resulting in a work stoppage and anticipated need for substantial completion date extension, the Contractor shall notify the Project Manager in writing (fax, e-mail, mail) of the delay a minimum of 24 hours before the original substantial completion date. Written approval of the extension by the Project Manager must be obtained. In no case will a work stoppage be accepted as a basis for extra payment.

6) CHANGE ORDERS

- .1) Procedure for contemplated change order is as follows:
 - a) Site meeting (if required) is arranged between Contractor and Project manager.
 - b) Contractor submits (in writing) a breakdown of additional costs or credit (if any) and anticipated extension of substantial completion date to the Project Manager for written approval.
 - c) Change order work cannot proceed until written approval is received.

7) GUARANTEE

- .1) The Contractor shall guarantee the Works and materials for a period of **two (2) years** from the day following substantial completion.
- .2) Deficiencies, as determined by the Project Manager, shall be corrected and/or replaced by the Contractor during this period. This would include but not be limited to deficiencies in material, and workmanship. Sod maintenance is **not** included. No payment by the Project Manager shall constitute a waiver of the two year guarantee.
- .3) Neither the final certificate nor payment nor any provisions in the Contract shall relieve the Contractor of responsibility for negligence or faulty materials or workmanship within the extent and period provided by law.

8) PROTECTION

The Contractor must protect, uphold and maintain all existing pipes, ducts, sewers, service mains, overhead and underground cables, fencing, asphalt/concrete walkways, etc. during the execution of the works.

9) CLEAN SITE

The Contractor shall remove debris during the course of the works and shall leave the site free of all debris of excess materials upon completion of the works. All adjacent pathways and roads shall be kept free from the accumulation of all deleterious material through the construction period.

10) PAYMENT

- .1) This is a **Lump Sum** contract. Payment shall not be made until **Final Completion** of the work (in accordance with the specifications). Final Completion has been reached *“when the works are 100% complete with no deficiencies and the Project Manager has accepted this in writing.”*
- .2) Release of funds will be dependent upon receipt of the following by the Project Manager:
 - .1) a letter on appropriate company stationary stating that all play equipment supplied and installed under this Contract is in compliance with CSA document, “Children’s Playspaces and Equipment”; **CAN/CSA-Z614-14**, or the most recent edition of the same;
 - .2) an assembly/maintenance ‘tool kit’ for the specified play equipment;
 - .3) an assembly instructions/manual for the specified play equipment.

11) STORAGE OF MATERIALS AND EQUIPMENT

Materials and/or equipment are to be stored and maintained in an orderly manner satisfactory to the Project Manager during the progress of the work and shall be removed from the site immediately upon completion of the job or when ordered to do so by the Manager. The Contractor shall be responsible for damage to and damage caused by any equipment the contractor leaves on site during the construction period.

12) MATERIALS - EQUIPMENT ETC.

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labour, water, tools, equipment, light, power, transportation and any other goods or services necessary for the execution and satisfactory completion of the work.

13) PERMITS/APPROVALS

All permits/licences etc. necessary for carrying out the works shall be secured and paid for by the Contractor unless otherwise stipulated.

14) SAFETY REQUIREMENTS AND REGULATIONS

In accordance with the Nova Scotia Department of Labour’s Health and Safety Act and Regulations, the HRM reserves the right to suspend works should the Project Manager find the Contractor in violation of any applicable construction safety codes, or in the opinion of the Project Manager is otherwise jeopardizing site safety in any manner. The Contractor, however, remains responsible for maintaining safe work practises and site safety whether the Project Manager is present or not.

15) SITE SECURITY

- .1) The Contractor is to wrap equipment with plastic snow fencing at the end of each working day during construction.
- .2) The Contractor is to install and maintain construction area perimeter fencing consisting of steel T-Bar posts and plastic snow fencing, throughout the construction period.
- .3) The Contractor is to ensure no excavated holes are to be left open at the end of each day.
- .4) The Contractor is to install and maintain site signage in a visible location during the course of construction

16) ORDER OF PRECEDENCE

In the event of any conflicts or inconsistencies in the provisions of the plans and specifications of this document, such provisions shall take precedence and govern in the following order:

- 1. Purchase Order
- 2. Addenda (where issued)
- 3. Special Provisions and/or General Requirements
- 4. Contract Drawings
- 5. HRM Standard Specifications and Standard Drawings
- 6. Bid Sheet

17) PROJECT CONTACT

The Project Manager is *Steve Oakey at Parks Facility Development, HRM 490-4746*.

Specifications, Bid Form, and all other pertinent documents may be downloaded from the HRSB website:

<http://www.hrsb.ca/about-hrsb/financial-services/purchasing/tenders/tender-listing>

A **mandatory** pre-construction meeting will be held after contract is awarded at a date stipulated by the Project Manager.

B) WORKS SPECIFICATIONS

1) SITE WORK

Work to include the supply of all material labour and equipment to prepare the site for playground installation and surfacing. Works to include:

Ash Lee Jefferson

Regrade existing gravels to provide a level are for playground installation

See site plan for equipment layout, Exact placement of equipment to be confirmed on site with the project manager.

Timber retainer to be backfilled a min of 100mm (4")

Supply and install 50mm (2") crusher dust to blend to existing asphalt and retaining wall and to blend between the old playground and the new. See site plan for crusher dust areas.

See Attachment 1 for layout of equipment.

Sycamore Elementary

Equipment to be installed generally as indicated on the site plan. The exact location is to be confirmed on site with the project manager.

Existing site material is to be regarded level to provide sufficient space to install the new equipment. Downhill side to have a min 1.5m level perimeter edge. See section

Timber retainer to be backfilled a min of 100mm.

All grading to provide for positive drainage.

See Attachment 2 for layout of equipment.

2) PLAY EQUIPMENT INSTALLATION

GENERAL

The following notes pertain to all play equipment specified within this Contract:

- .1) All play equipment specified within this Contract shall be new and of top quality and must meet the C.S.A. document, "Children's Playspaces and Equipment", (CAN - CSA Z 614 - 14), or the most recent edition/revisions of the same. Installation must meet manufacturer's specifications and conform to CAN/CSA-Z614-14, or the most recent edition/revisions of the same.

- .2) All components comprising the units shall be installed plumb and true. Components failing to meet these criteria must be properly reinstalled at no additional cost to this Contract.
- .3) The layout of the proposed play structure and timber edging must observe the Protective Surfacing and No-Encroachment Zones, as stipulated within CSA document "Children's Playspaces and Equipment"; **CAN/CSA-Z614-14**, or the most recent addition/revision of the same.
- .4) **Footings:** Concrete **or** 'sled system' footings are acceptable provided they meet the manufacturer's specifications for the proposed equipment and **CAN/CSA-Z614-14** standards or most recent edition/revision of same.
 - 1. All sled materials including welded joints to be primed. A minimum of 80 percent of each post shall sit directly on skid with a continuous bead of weld around 80 percent of the circumference of the posts (skid shall be constructed of a minimum of 5 " channel and shall be continuously welded along complete joint when adjoining pieces)
 - 2. Inspection of play structure by the project manager is required prior to surfacing installation to ensure these requirements are met.
- .5) Layout of equipment shall be approved by the Project Manager on site before installation is to proceed.
- .6) Play Structure Components

The Contractor shall supply and install a play structure containing components and component construction materials that meet or exceed:

Ash Lee Jefferson Elementary School

Little Tikes Commercial Play equipment equal or equivalent to model # LH648_42275923565_1 as details in these specifications

See Attachment 1 for layout and component specifications

Sycamore Elementary School

Little Tikes Commercial Play equipment equal or equivalent to model # LH648_42141777720_1

See Attachment 2 for layout and component specifications

.7) **Approved 'alternates'**

- .1) All quotations in which equipment alternates are proposed **must** be accompanied by manufacturer's literature describing the equipment in detail. The Project Manager reserves the right to accept or reject the proposal.
- .2) Note: Deck heights and dimensions of all proposed equivalent equipment must meet or exceed that of the specified equipment.

.8) Upon completion of all play equipment installation the following shall be provided to the Project Manager:

- .1) An **assembly/maintenance tool kit** for adjustment and repair
- .2) An **assembly manual** for the specified play equipment.

The supply and installation of all specified play equipment and documents is to be included within the Contractor's respective itemized Bid Price.

3) **TIMBER EDGING** (see dwg.D-1)

.1 The Contractor is responsible for supplying all labour, materials and equipment necessary to install timber edging, as detailed on drawing D-1, at outside edge of designated protective surface area. This will be laid out on site by Contractor in compliance with CSA requirements for approval by Project Manager. **NO TIMBER EDGING IS TO BE INSTALLED BEFORE PLAYGROUND EQUIPMENT INSTALLATION.**

4) **FILTER FABRIC**

Contractor is to apply a non-woven geotextile filter fabric(min. 12" overlap at joints) over the entire finish subgrade of protective surface area. Geotextile filter fabric to be Terrafix 270R, nonwoven(or approved equal). Fabric to be fastened as per drawing **D-1**. Lapped joints to be fastened together with cable ties- Garder Bender double lock standard ties- or approved equal), 1/16" thickness with min. 75 lb tensile strength. Ties to be fastened through slits cut in both layers of fabric at 3' intervals along each joint. Each tie to have excess tie removed leaving 1/2" excess.

5) **PEASTONE**

.1) The Contractor is to supply and install a minimum depth of peastone of **10"** or greater, as determined by the Contractor to comply with **CAN/CSA-Z614-07**, or the most recent addition/revision of the same.

.2) The peastone shall be 3/8" dia., **double washed**, rounded stone, free of sharps. The Project Manager reserves the right to reject any stone which he/she deems not suitable.

The contract must, at the project manager's request, supply testing data for the safety surfacing to be installed.

6) **SITE REINSTATEMENT / CLEAN UP**

- .1) The Contractor shall keep the construction area as clean and tidy as possible during construction.
- .2) The Contractor shall take all necessary action to prevent inconveniences to nearby residents, and park patrons, and to control dust from construction by cleaning mud/dirt from the road and sidewalks as required.
- .3) All existing roadways, driveways, sidewalks, grassed areas, street signs and utilities which are disturbed as a result of the undertaking of this Contract, must be reinstated to their original condition or better, unless otherwise specified.
- .4) On completion of the work, the Contractor shall remove all temporary signs, barriers, etc., and leave the site in a neat and tidy condition, free from debris, refuse and mud, to the satisfaction of the Project Manager.
- .5) All turf areas on site disturbed by the Contractor through the execution of this Contract are to be restored by the placement of min. depth of 4" topsoil and nursery sod at the Contractor's expense.
- .6) All disturbed areas to be graded to blend smoothly and naturally with adjacent grades.
- .7) Sodded areas indicated on the drawing L-1 are approximate the contractor is to adjust this accordingly to reinstate disturbed areas and provide for positive drainage. All sodding costs are to be included in the lump sum price.

The cost for the reinstatement of all disturbed areas as described herein is to be included within the Contractor Bid Price unless otherwise stated.

**ASH LEE JEFFERSON AND SYCAMORE ELEMENTARY SCHOOL PLAYGROUNDS
PLAY EQUIPMENT SUPPLY AND INSTALLATION**

**Tender # 3807
Bid Sheet**

COMPANY NAME _____

COMPANY CONTACT NAME _____

CONTACT PHONE NUMBER _____

EMAIL _____

ADDRESS _____

Indicate Earliest Start Date (For Evaluation) _____

Jennifer King, Buyer
Halifax Regional School Board
Procurement Division
33 Spectacle Lake Drive
Dartmouth, Nova Scotia
B3B 1X7

Dear Madame:

Having examined the drawings and specifications for the **ASH LEE JEFFERSON AND SYCAMORE ELEMENTARY SCHOOL PLAYGROUNDS PLAY EQUIPMENT SUPPLY AND INSTALLATION**, as well as site conditions affecting the work, the undersigned offers to furnish all labour and materials required for a complete job in accordance with the said documents at a price as follows;

This is a Lump Sum Contract.

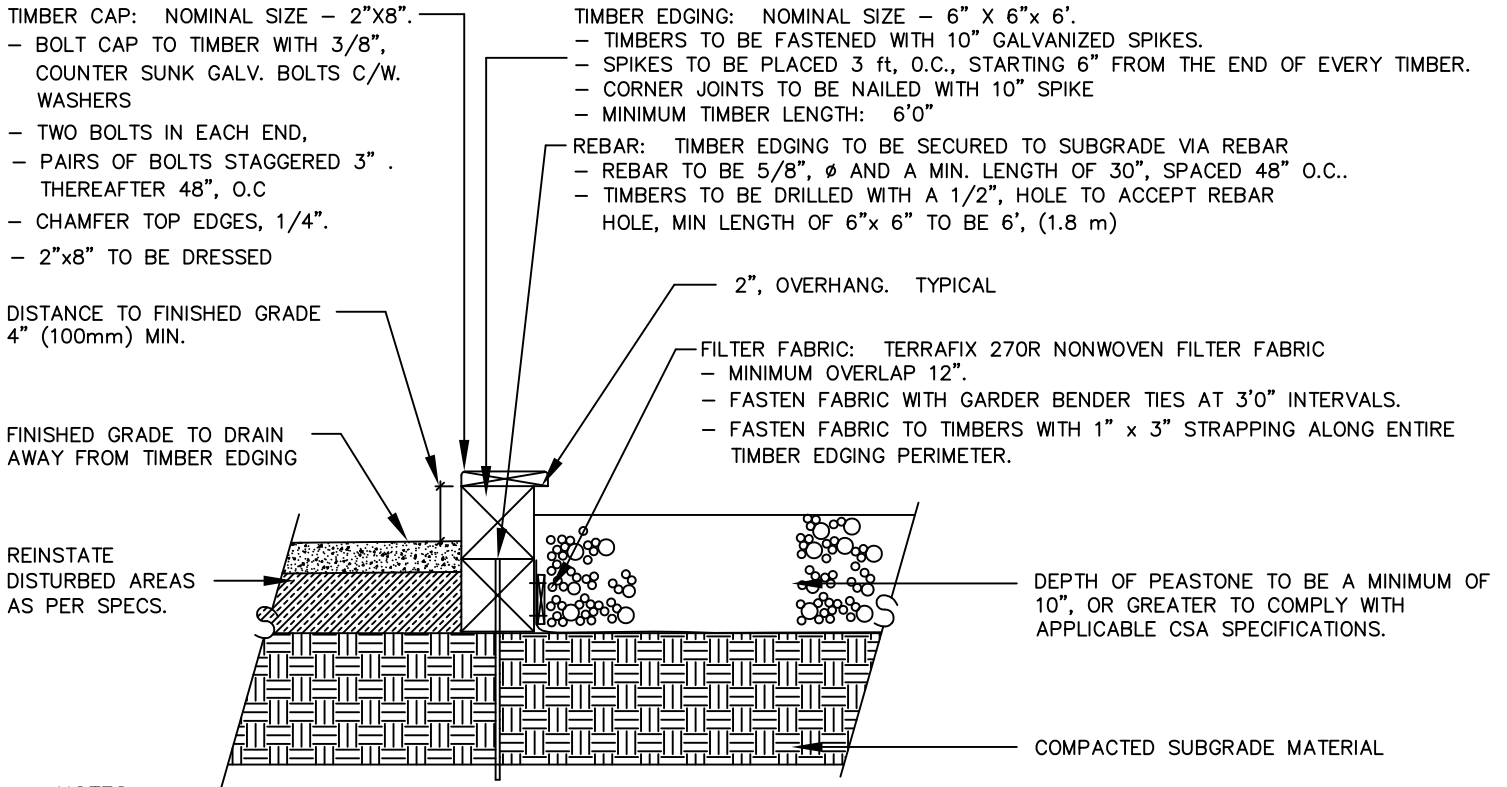
The HRM reserves the right to accept all or any combination of itemized bid prices and/or increase or reduce quantities within each contractors bid price. The HRM will not combine bids from other bidders but may choose to carry out work using its own forces and Standing Orders and /or substitute its own materials.

The Halifax Regional School Board reserves the right to award each playground separately if deemed to be in their best interest.

1. ASH LEE JEFFERSON Lump Sum before HST \$ _____

2. SYCAMORE ELEMENTARY Lump Sum before HST \$ _____

Total before HST \$ _____



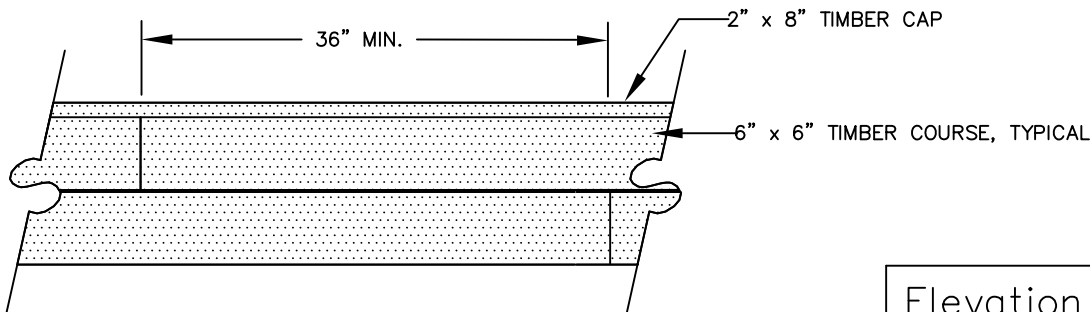
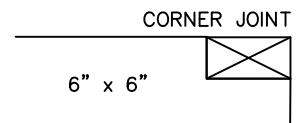
NOTES:

- 1) ALL TIMBER MATERIAL TO BE TREATED WITH 'Copper Azole Type B (CA-B)' PRESERVATIVE, OR APPROVED ALTERNATE.
- 2) ALL TIMBER CUT EDGES TO BE TREATED WITH 'Copper Azole Type B (CA-B)' PRESERVATIVE, OR APPROVED ALTERNATE.
- 3) ALL TIMBER EDGING COMPONENTS TO BE INSTALLED LEVEL ALONG THEIR ENTIRE LENGTHS.
- 4) ALL CUTS TO TIMBERS SHALL BE COMPLETED NEAT AND PLUMB. ADJACENT TIMBER EDGES TO BUTT TOGETHER FLUSH WITH A MAXIMUM GAP OF 1/8". CHAIN SAW CUTS ARE NOT ACCEPTABLE
- 5) ALL CORNERS TO BE LAP JOINTED, SEE CORNER JOINT BELOW.
- 6) 2"x8"CAP TO HAVE EQUAL ANGLES AT CORNERS, BUTT JOINTS NOT ACCEPTABLE

Section

NOTES:

- 1) ALTERNATE JOINTS BETWEEN COURSES MINIMUM 36" APART.



Elevation

Project HRM Standard Park Detail			HALIFAX PARKS & RECREATION
Title Timber Cribbing	Scale n.t.s.	Drawn by: gvy	
Proj. No.	Date Nov. 2015	Approved by:	D-1

ATTACHMENT #1

ASH LEE JEFFERSON ELEMENTARY SCHOOL PLAYGROUND

- **Equipment/ Component Specifications**
- **Plan of Equipment Layout**
- **Perspective of Equipment**
- **Site Plan Ash Lee Jefferson**

Project Ash Lee
name: Jefferson



Site
address:

Dartmouth



NS B3B
1X7

USA

Sales representative: PlayPower Canada

Specification Documents

Project number:

LH648_42275923565_1

Please, read all information in
this manual before starting to
install your equipment.

Date 2015-
: 11-02
20:22:2
1

Product specifications listed were correct at the time of publication. However, Little Tikes Commercial Play Systems has a history and policy of continuous product development and improvement and therefore reserves the right to improve, alter or discontinue specifications

without notice.

Plastic Caps shall fit snugly into 127 mm (5") and 33 mm (1.315") tube ends and shall be injection molded Low Density Polyethylene. This plastic shall be stabilized against ultraviolet (UV) degradation and shall have color molded in. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

Aluminum Caps shall fit snugly into 127 mm (5") tube ends. The Aluminum cap shall be made from SAE 413 aluminum with a minimum wall thickness of 4 mm. Prior to insertion into the post, all caps shall be painted per PPLT PAINT Specification. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

-Paint shall be applied per PPLT PAINT Specification.

-Rotationally Molded Plastic Parts shall be molded per PPLT ROTO Specification.

-Textured Poly-Vinyl-Chloride coating shall be per PPLT PVC Specification.

Hardware: Bolts, Nuts, Screws, Threaded Spacers, Washers and Other Hardware used in the assembly of components shall be metric stainless steel and tamper resistant. All necessary hardware shall be provided.

Deck Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp attachment bracket shall be formed from 11 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.

Rail Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a minimum 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.

Wing and Panel Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp wing bracket shall be formed from 7 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.

All Steel Tube Components shall comply with ASTM standards: A-500, or A-513. The steel tube components contain five layers including an inside galvanized coating, high tensile strength cold formed steel, hot dipped pure zinc meeting ASTM B-6 applied at 3.5 tenths of an ounce per square foot, and a proprietary conversion and advanced polymer coatings. The components are freed of excess weld spatter and shall be cleaned in a multiple bath system which shall include a rust-inhibitive iron phosphate wash prior to painting. Exceptions: 127 mm (5") O.D. aluminum posts.

PPLT PAINT Specification: Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

-PPLT ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

-PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

13 GAUGE GALVANIZED STEEL POST shall be 127 mm (5") O.D., 13 gauge pre-galvanized round tubing. Minimum tensile strength shall be 330MPa (48,000 psi). Minimum yield point shall be 310MPa (45,000 psi). Plastic caps shall fit into the uncrimped end of the 127 mm (5") tube. After fabrication, all posts shall be painted per PPLT PAINT Specification.

13 GAUGE GALVANIZED STEEL POST shall be 127 mm (5") O.D., 13 gauge pre-galvanized round tubing. Minimum tensile strength shall be 330MPa (48,000 psi). Minimum yield point shall be 310MPa (45,000 psi). Plastic caps shall fit into the uncrimped end of the 127 mm (5") tube. After fabrication, all posts shall be painted per PPLT PAINT Specification.

STEEL POST shall be 89 mm (3.5") O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). Plastic caps shall be positioned in the top of each post. Posts shall be painted per PPLT PAINT Specification.

KB SWITCHBACK CLIMBERS shall be fabricated from 48.3 mm (1.90"), 42.2 mm (1.66") and 33.4 mm (1.315") o.d. pre-galvanized steel tubing. The climber shall be an all welded construction. Enclosures shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.

SIDE STEP CLIMBER shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. The Side Step Climber shall be an all welded construction. Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized

sheet steel. Deck brackets shall be fabricated from 42.2 mm (1.660") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.

3D ROCK CHALLENGE WALL (2235 & 2440) shall be constructed of high density polyethylene sheets. The hand grips shall be molded from a plastic resin. The steel frame is fabricated from pre-galvanized 33.4 mm (1.315") and 48.3 mm (1.875") diameter steel tubing welded with 11 gauge pre-galvanized steel brackets. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all steel components shall be painted per PPLT PAINT Specification.

SPIRAL CLIMBER shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. The Spiral Climber shall be comprised of two main parts each of which are all welded assemblies. Enclosure shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing, 3 mm (11 gauge) pre-galvanized sheet steel and 4.5 mm (7 gauge) sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.

KB 4X4 CLIMBER shall be fabricated from 42.2 mm (1.66") O.D. pre-galvanized steel tubing. The climber shall be an all welded construction. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.
Specifications

KB 4X4 CLIMBER shall be fabricated from 42.2 mm (1.66") O.D. pre-galvanized steel tubing. The climber shall be an all welded construction. Safety Loops shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.

TRIANGULAR VINYL CLAD METAL DECK shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge plates. Each triangular deck shall cover a minimum of 0.63 square meters (985 square inches) of top surface area, be a one-piece construction and be designed to maintain a full 1.2 m (48") on center post spacing. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks at the same level to be assembled providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

DECK TO DECK STEPS WITH SAFETY RAIL shall consist of welded tread, riser and stringer sections fabricated from 13 gauge hot rolled steel. This assembly shall be coated per PPLT PVC Specification. Safety Rails shall be fabricated from 33 mm (1.315") O.D. and 3/4" X 1" FSO pre-galvanized tubing. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Safety Rails to be painted per PPLT PAINT Specification.

CLIMBING LINK shall be designed to incorporate a one-piece, welded construction to aid installation. Climbing link vertical and horizontal rails shall consist of 33 mm (1.315") O.D. pre-galvanized steel tubing. Climbing link shall be painted per PPLT PAINT Specification. Available with vertical climbing enclosure.

HYPERSONIC SLIDE shall be rotationally molded per PPLT ROTO Specification. Plastic slide

bed way shall be designed with a 406 mm (16") minimum width. Slide end and mid support shall be fabricated from 60.3 mm (2.37") O.D. tubing and 4.55mm (7 gauge) pre-galvanized sheet steel. All steel components shall be painted per PPLT PAINT Specification.

SQUARE VINYL CLAD METAL DECK shall cover a minimum of 1.46 square meters (2,275 square inches) of top surface area, be a one-piece construction and be designed to maintain a full 1.2 m (48") on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge plates. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks to be assembled at the same level providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

Project Ash Lee
name: Jefferson



Site
address:

Dartmouth

NS B3B
1X7

USA

Sales representative: PlayPower Canada

Specification Documents

Project number:

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this manual before starting to
install your equipment.

Date 2015-
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PPLT PAINT Specification: Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and

500 degrees Fahrenheit. The thickness of the paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

-PPLT ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

-PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

STEPPING STONES shall be rotationally molded per PPLT ROTO Specification and mounted on 60 mm (2.375") O.D. pre-galvanized support posts painted per PPLT PAINT Specification after fabrication.

FREESTANDING HOOPLA shall be rotationally molded per PPLT ROTO Specification. Supports are fabricated from pre-galvanized 60.3 mm (2.375") diameter steel tubing with 11 gauge pre-galvanized sheet steel plates. All Supports shall be painted per PPLT PAINT Specification.

NRG HUB OVERHEAD BEAMS, supports and connectors shall be constructed from 60.3 mm (2.375") diameter 11 gauge (3mm) thick and 33.4 mm (1.315") pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized sheet steel. Overhead Step Decks shall be rotationally molded per PPLT ROTO Specification. The Support post shall be fabricated from 88.9mm (3.5") O.D. 11 ga. and 42.2mm (1.625") O.D. pre-galvanized tubing. Two (2) spinning wheels shall be attached with 32 mm (1.25") diameter stainless steel hex bolts, each positioned between two bearings. The wheels are fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing and 38.1 mm (1.5") O.D. steel tubing. All steel components shall be painted per PPLT PAINT Specification.

NRG TACO CLIMBER sides and yokes and connectors shall be constructed from 48.3 mm (1.9") diameter pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized sheet steel. Taco Climber nets shall be fabricated from rope consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. Each perpendicular joint shall be secured. Stepping Rungs shall be fabricated from 33.4mm (1.315") O.D. pre-galvanized tubing. All steel components shall be painted per PPLT PAINT Specification.

NRG OVERHEAD BEAMS and connectors shall be constructed from 60.3 mm (2.375"), 33.4 mm (1.315"), and 25.4 mm (1") O.D. pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized sheet steel. CURVE POSTS shall be 88.9 mm (3.5") O.D. pre-galvanized steel tubing. INFINITY Footholds shall be rotationally molded per PPLT ROTO Specification. All steel components shall be painted per PPLT PAINT Specification.

NRG KINETIC POD BEAMS and connectors shall be constructed from 60.3 mm (2.375") diameter 11 gauge (3mm) thick pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized

sheet steel. KINETIC POD Hanging supports for the pods shall be 33 mm (1.315") O.D. pre-galvanized steel tubing tethered to a steel footing rail with 4/0 galvanized chain. Floating stones shall be rotationally molded per PPLT ROTO Specification. All steel components shall be painted per PPLT PAINT Specification.

NRG INFINITY FLEX BEAMS and connectors shall be constructed from 60.3 mm (2.375") diameter 11 gauge (3mm) thick pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized sheet steel. INFINITY FLEX supports shall be 33 mm (1.315") and 88.9 mm (3.5") O.D. pre-galvanized steel tubing. INFINITY CLIMBERS & PADS shall be rotationally molded per PPLT ROTO Specification. All steel components shall be painted per PPLT PAINT Specification

NRG HUB ARCHES shall be constructed from 127 mm (5") diameter 11 gauge (3mm) thick pre-galvanized steel tube with 16 mm (5/8") tabs. HOOP-LA Climbers shall be molded per PPLT ROTO Specification. Connectors shall be made from 60.3 mm (2.375") pre-galvanized steel tubing with 11 gauge pre-galvanized sheetsteel. Wing nets shall be fabricated from rope consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. Each perpendicular joint shall be secured. Stepping Rungs shall be fabricated from 33.4mm (1.315") O.D. pre-galvanized tubing. All steel components shall be painted per PPLT PAINT Specification

NRG HUB WEBWALL BEAMS and connectors shall be constructed from 60.3 mm (2.375") diameter 11 gauge (3mm) thick pre-galvanized steel tube and 7 gauge (4.5 mm) pre-galvanized sheet steel. WEBWALL NET shall be fabricated from rope consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. Each perpendicular joint shall be rigidly secured. Climbing Net shall be secured with a stainless steel clevis at the top and bottom. NRG WEBWALL STEPPER: Handholds and blanks shall be rotationally molded per PPLT ROTO Specification. The Support post shall be fabricated from 88.9mm (3.5") O.D. 11 ga. and 42.2mm (1.625") O.D. pre-galvanized tubing. All steel components shall be painted per PPLT PAINT Specification.

TIME TRACKER plastic shall be molded per PPLT ROTO Specifications. The Plastic shall house 72 ounces of 1mm glass beads with a UV resistant polycarbonate vacuum formed sheet bolted in place with a gasket adhesive to prevent spilling of the beads. Retaining plates and hex bearing shall be fabricated from 1/2" HDPE sheet and the shim washer shall be 1/4" ASTM A-36 sheet. Post shall be fabricated from 2" pipe and painted per PPLT PAINT Specifications.

STAND N SPIN consists of an assembled post weldment, standoff weldment, & foot weldment along with a cast hub, machined spindle, bearings, and associated hardware. Post weldment shall be constructed from 89mm (3.5") x 11 ga. tubing with 6.3mm (.25") plate, & 33mm (1.3") & 25mm (1") O.D. pre-galvanized tubing (hand support). Standoff weldment shall be constructed from 114mm (4.5") x 3 ga. tubing with 9.5mm (.375") plate. Foot weldment shall be constructed from 89mm (3.5") x 11 ga. pre-galvanized tubing with 9.5mm (.375") plate. After fabrication all steel parts shall be painted per PPLT PAINT Specification.

MAYPOLE ring is to be a welded assembly constructed from 33.4 mm (1.315") and 48.3 mm (1.90") O.D. x 11 gauge galvanized steel tubing, 3/4" X 1" FSO pre-galvanized steel tubing, and a hub machined from 5.5" diamter x .5" wall D.O.M. tube. The Maypole post shall be a welded assembly constructed from 127mm (5.0") O.D. x 7gauge tubing, 9.5mm and 11 gauge sheet steel, and a machined steel shaft. Maypole post shall be painted per PPLT PAINT Specification.



Project Ash Lee
name: Jefferson

Site
address:

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1X7

USA

Sales representative: PlayPower Canada

Specification Documents

Project number:

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-Product specifications listed were correct at the time of publication. However, Little Tikes Commercial Play Systems has a history and policy of continuous product development and improvement and therefore reserves the right to improve, alter or discontinue specifications

without notice.

-Plastic Caps shall fit snugly into 89 mm (3.5"), 33 mm (1.315"), and 25 mm (1") diameter pipe ends. Plastic caps for 89 mm (3.5") shall be injection molded polypropylene. Plastic caps for 33 mm (1.315") and 25 mm (1") shall be injection molded low density polyethylene. This plastic shall be stabilized against ultraviolet (U.V.) degradation and shall have color molded in. All caps shall be pre-installed at the factory.

-Brackets shall be fabricated from punched and formed 4.5 mm pre-galvanized sheet steel.

-Gaskets shall be rubber injection molded from ultraviolet (U.V.) protected synthetic rubber. Rubber gaskets shall provide an aesthetic seal around the wonder fastener and bracket.

-Paint shall be applied per PPLT PAINT Specification.

-Rotationally Molded Plastic Parts shall be molded per PPLT ROTO Specification.

-Hardware: Bolts, Nuts, Screws, Threaded Spacers, Washers and Other Hardware used in the assembly of components shall be Stainless Steel and be tamper resistant. All necessary hardware shall be provided.

-Textured Poly-Vinyl-Chloride coating shall be per PPLT PVC Specification.

PPLT PAINT Specification: Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

-PPLT ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

-PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

STEEL POST shall be 89 mm (3.5") O.D., 11 gauge pre-galvanized round tubing. M Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). Plastic caps shall be positioned in the top of each post. Posts shall be painted per PPLT PAINT Specification.

PB Reach Telescope Panels shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing, 19mm X 25.4mm obround pre-galvanized steel tubing, and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Telescopes shall be molded per PPLT ROTO Specification. Panels shall be painted per PPLT PAINT Specification.

PB VEHICLE REACH PANEL..... shall be fabricated from a combination of 33.4 mm (1.312”) O.D.. pre-galvanized steel tubing and a laser cut plate fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Steering Wheel shall be cast in alloy 319 aluminum of the Aluminum-Zinc-Magnesium type and comply to ASTM SC64d, UNS-AO3191, QQA-371e, and QQA-596d standards. Panels/wheels shall be painted per PPLT PAINT Specification.

PB BEATBLOCKS PANEL shall be constructed from 19mm (3/4”) thick high density polyethylene sheet. Support shall be constructed from 33mm (1.315”) O.D. and 25mm (1”) O.D. pre-galvanized steel tubing welded to 7ga. (4.5mm) thick plates and painted per PPLT PAINT Specification.

PB GEAR REACH PANEL shall be fabricated from a combination of 33.4 mm (1.312”) O.D.. pre-galvanized steel tubing and a laser cut plate fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Gears, frames, and handles shall be CNC Routed from HDPE sheet. The covers shall be CNC Routed from “Lexan” sheet. Panels shall be painted per PPLT PAINT Specification.

PB REACH ABACUS PANEL shall be fabricated from a combination of 33.4 mm (1.312”) O.D.. pre-galvanized steel tubing, 25.4 mm (1”) O.D.. pre-galvanized steel tubing, and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Abacus balls shall be molded per PPLT ROTO Specification. Panels/rails shall be painted per PPLT PAINT Specification.

PB TAP-A-TUNE REACH PANEL® shall be fabricated from a combination of 33.4 mm (1.312”) O.D.. pre-galvanized steel tubing, and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Tap-A-Tune panels shall contain a piano mechanism. Panels shall be painted per PPLT PAINT Specification prior to assembly.



Project Ash Lee
name: Jefferson

Site
address:

Dartmouth

NS B3B
1X7

USA

Sales representative: PlayPower Canada

Specification Documents

Project number:

LH648_42275923565_1

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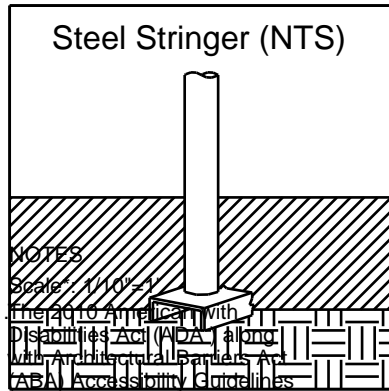
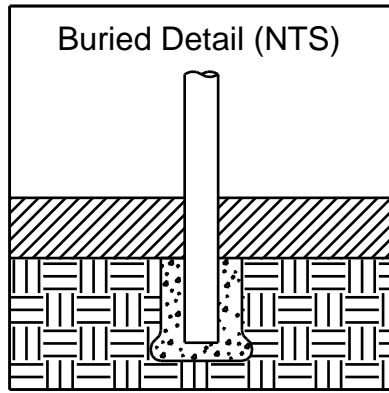
PPLT PAINT Specification: Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the paint shall be between 5 mils and 11 mils. The

polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

-PPLT ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

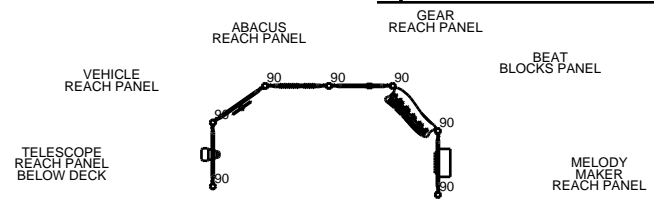
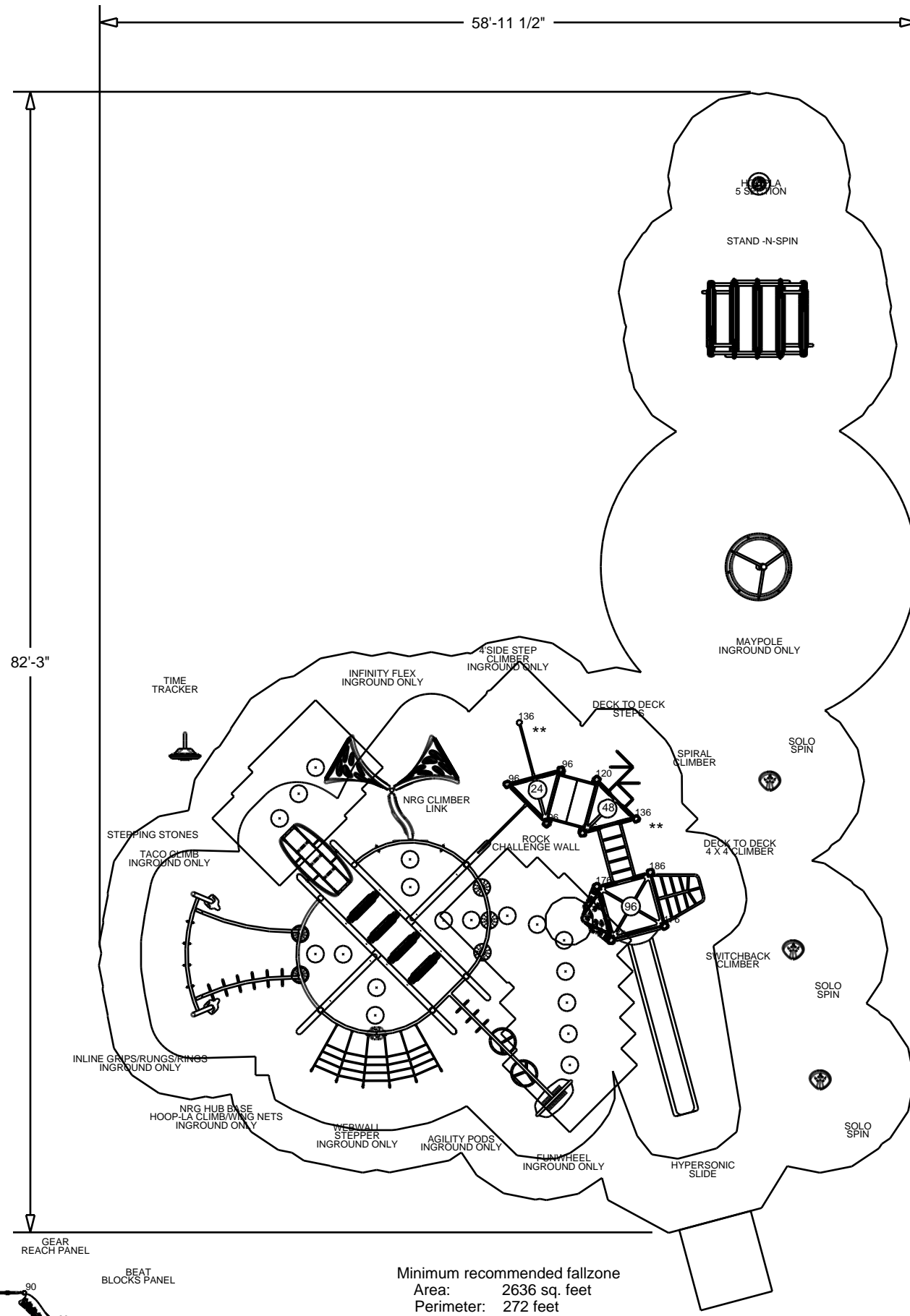
-PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

SOLO SPINNER consists of an assembled post weldment, standoff weldment, & foot weldment along with a cast hub, machined spindle, bearings, and associated hardware. Post weldment shall be constructed from 89mm (3.5") x 11 ga. pre-galvanized tubing with 9.5mm (.375") plate. After fabrication all steel parts shall be painted per PPLT PAINT Specification. Seat shall be rotationally molded per PPLT ROTO Specification.



NOTES
Scale: 1/10"=1'

1. The ADA and ABA requires you by law to make your park/play area accessible when viewed in its entirety. Please consult the Accessible Guidelines.
 2. For play equipment to be considered accessible an accessible route must be available within the play area to all identified accessible components per ADA and ABA.
 3. When adding to an existing play area, it is important to consider the total elevated components to ground level requirements including accessible routes.
 4. All deck heights are measured from the top of the finished protective surfacing material.
 5. Fall absorbing protective surfacing material is required under and around all play equipment within the play area.
 6. The minimum recommended use/fall zone around each play structure and/or independent play equipment is outlined on the layout drawing.
 7. Age appropriate label locations are marked with a double asterisk. (**)
 8. All post lengths are identified by text showing the post lengths, i.e. 96 represents a 96 inch post. Scale for reference only. Use dimensions as shown.
 9. The requirement for a Play Builder installation is that the post can not be set prior to installing the decks.
 10. All post lengths are identified by text showing the post lengths, i.e. 2210 or 87 represents a 2210mm or 87 inch post. Scale for reference only. Use dimensions as shown.
- * Scale for reference only. Use dimensions as shown.



Minimum recommended fallzone
Area: 2636 sq. feet
Perimeter: 272 feet



Representative:
Scott O'Reilly
PlayPower Canada
800-265-9953

Project:
Ash Lee Jefferson

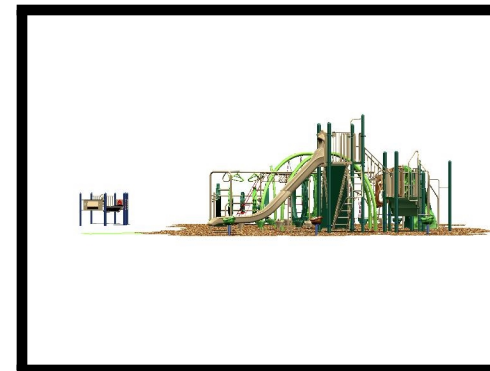
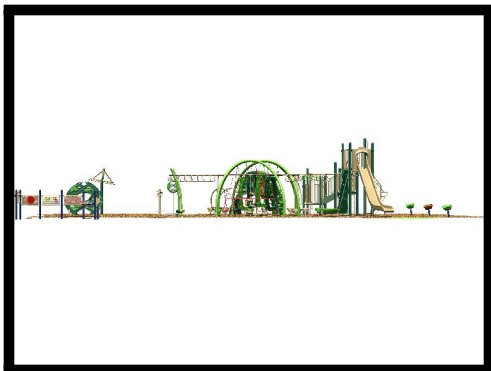
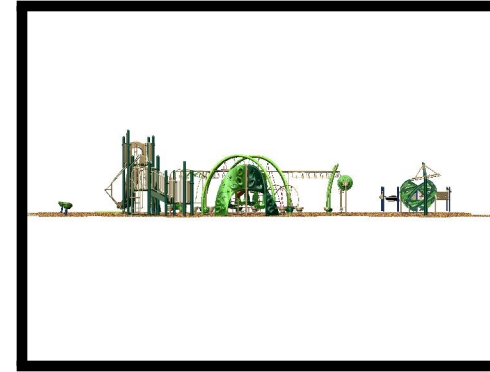
Project No.
LH648_42275923565_2
Drawn: 2015-11-12
Drawn By: Scott O'Reilly

PlayArea:1
Product line:TraditionalPlay
Age group:5-12
Post type:N/A
KB Accent Color:tan
KB Sld/Float Stone Clr:tan
Kid Builder Post Color:green
Hoopla_Plastic_Clr_1:Forest Green
Hoopla_Plastic_Clr_2:Lime
Hoopla_Steel_Clr:tan
NRG Accent Color:tan
NRG Fun Wheel Clr:Lime
NRG Plastic Clr:Lime
InfinityWing Blnk Pl Clr:Forest Green
InfinityWing Foot Pl Clr:tan
NRG Plastic Clr 2:Forest Green
NRG Post Color:Lime
NRG Plastic Clr 3:tan
Infinity 1 Plastic Clr:Lime
Infinity 2 Plastic Clr:Forest Green
InfinityPad 1 Plastic Clr:Fort Brown
Kb Cnc Routed Plastic Color:Grn/Tn/Grn
KB Vinyl color:green
Kid Fitness Plastic Color:Lime
Kid Fitness Steel Color:tan
Stand-n-Spin Clr:tan
Maypole Post Clr:green
Maypole Wheel Clr:tan
Mount Option:Buried

PlayArea:2
Product line:PlayBuilders
Age group:18m-5
Post type:Galv. 11ga. / Plastic
Play Builder Accent Color:tan
Play Builder Post Color:blue
PB Panel/Crawl Tunnel Color:tan
PB Roof/Table Color:Forest Green
PB Slide Color:yellow
PB Vinyl Clr:Brown
Mount Option:Buried

PlayArea:3
PlayPower LT Canada, Inc.
Product line:TraditionalPlay
Age group:4-5
Post type:N3L 3E7
Post type:990-265-9953
Solo Spin Plastic Clr:Blue
Solo Spin Steel Clr:Blue
Mount Option:Buried

Playground Layout
Compliance:



little tikes COMMERCIAL
 Playgrounds Fun & Easy!

Project:
 Ash Lee Jefferson

Project No.
 LH648_42275923565_1
 Drawn: 2015-09-29

Presented By:

little tikes
 Playgrounds by PlayPower

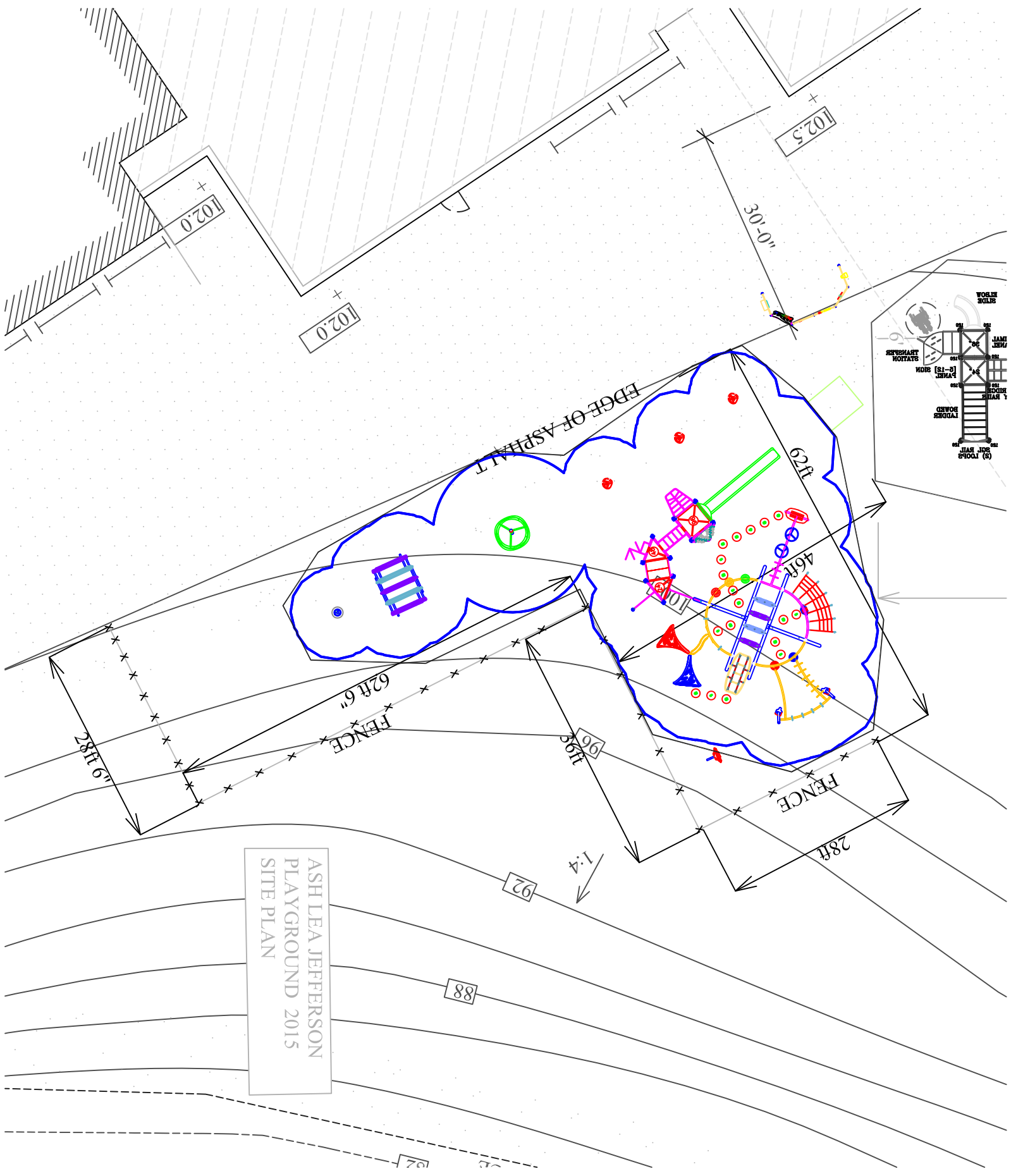
Scott O'Reilly
 PlayPower Canada
 800-265-9953



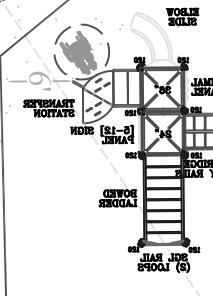
This play equipment meets the requirements of CSA Z-614-07 for children 18m-12 years old. Not all equipment may be appropriate For all children. Supervision is required.



PlayPower LT Canada, Inc.
 800-265-9953 www.ltcps.com



ASH LEA JEFFERSON
PLAYGROUND 2015
SITE PLAN



ATTACHMENT #2

SYCAMORE ELEMENTARY SCHOOL PLAYGROUND

- **Equipment/ Component Specifications**
- **Plan of Equipment Layout**
- **Perspective of Equipment**
- **Site Plan Sycamore Elementary**



Project Sycamore
name: Lane
Elementary

Site 69 Sycamore
address: Lane

Lower
Sackville

NS B4C
1E8

USA

Sales representative: PlayPower Canada

Specification Documents

Project number:

LH648_42141777720_3

Please, read all information in this manual before starting to install your equipment.

Date 2015-
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PPLT PAINT Specification: Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117

(Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

-PPLT ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

-PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

SOLO SPINNER consists of an assembled post weldment, standoff weldment, & foot weldment along with a cast hub, machined spindle, bearings, and associated hardware. Post weldment shall be constructed from 89mm (3.5") x 11 ga. pre-galvanized tubing with 9.5mm (.375") plate. After fabrication all steel parts shall be painted per PPLT PAINT Specification. Seat shall be rotationally molded per PPLT ROTO Specification.

NRG FREESTYLE TIMBER WALL SPOKE shall be made from NATURTEK material formed into the shape of stacked railroad ties. They will stack on posts fabricated from 89 mm (3.5") O.D. pre-galvanized tubing and 3 mm (11 ga) pre-galvanized sheet steel. All exposed metal shall be painted per PPLT PAINT Specification. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength, ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum.

NRG FREESTYLE VERSA CLIMB shall be molded per PPLT ROTO Specification. The hand grips shall be molded from a plastic resin. The steel supports are fabricated from pre-galvanized 88.9 mm (3.5") diameter steel tubing. The steel end caps are fabricated from 11 gauge sheet steel, and shall be painted per PPLT PAINT Specification.

NRG FREESTYLE SOLO PODS shall be fabricated from 60.3 (2.375"), 73 mm (2.875") (6 gauge) and 33.4 mm (1 5/16") O.D. pre-galvanized steel tubing and 4.554mm (.179") and 3 mm (.12") pre-galvanized steel sheet. All exposed steel shall be coated per PPLT PAINT specification. All Rotational molded plastic shall be molded per PPLT ROTO specification.

NRG FREESTYLE FUNWHEELS Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. The Funwheel shall be attached with a 32 mm (1.25") diameter stainless steel hex bolt, positioned between two bearings. The wheel is fabricated from 33.4 mm (1.315") O.D. pre-galvanized steel tubing and 38.1 mm (1.5") O.D. steel tubing. All exposed steel shall be coated per PPLT PAINT specification.

NRG FREESTYLE HUB 2 UP shall be manufactured from 88.9 mm (3.5") and 33.4 mm (1 5/16") O.D. pre-galvanized steel tubing and 5.7 (.22") and 4.554mm (.179") pre-galvanized steel sheet.

NRG FREESTYLE RING TREK Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Ring Trek handles shall be cast in alloy 319 aluminum of the Aluminum-Zinc-Magnesium type and comply to ASTM SC64d, UNS-AO3191, QQA-371e, and QQA-596d standards.

NRG FREESTYLE VERTICAL CLIMBING NEXT Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Ropes shall be fabricated from Nylon braided rope with steel re-enforcement.

NRG FREESTYLE HUB 3 UP shall be manufactured from 88.9 mm (3.5") and 33.4 mm (1 5/16") O.D. pre-galvanized steel tubing and 5.7 (.22") and 4.554mm (.179") pre-galvanized steel sheet.

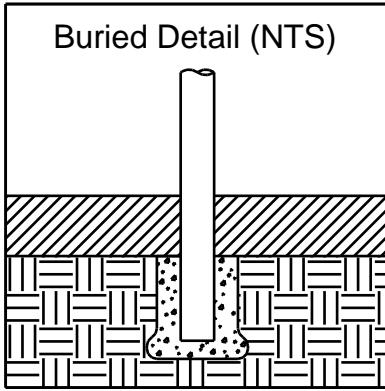
NRG FREESTYLE HOOPLA ALLEY TRAVERSE Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Steel connectors shall be fabricated 11 gauge pre-galvanized sheet steel plates. All chain connections shall be 4/0 galvanized chain. All exposed steel shall be coated per PPLT PAINT specification. All Rotational molded plastic shall be molded per PPLT ROTO specification.

NRG FREESTYLE HOOPLA ALLEY Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Steel connectors shall be fabricated 11 gauge pre-galvanized sheet steel plates. All chain connections shall be 4/0 galvanized chain. All exposed steel shall be coated per PPLT PAINT specification. All Rotational molded plastic shall be molded per PPLT ROTO specification.

NRG FREESTYLE SIDESTEP INFINITY Climbers shall be fabricated from 33.4 mm (1 5/16") O.D. tubing pre-galvanized and 50.8mm (2") SQ pre-galvanized steel tubing. All exposed steel shall be coated per PPLT PAINT specification. All Rotational molded plastic shall be molded per PPLT ROTO specification.

NRG FREESTYLE LOOP RAIL Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Hand loops shall be fabricated from 33.4 mm (1 5/16") O.D. tubing pre-galvanized. All exposed steel shall be coated per PPLT PAINT specification.

NRG FREESTYLE FLOATING POMMEL Overhead main beam is to be manufactured from 60.3 (2.375") O.D. pre-galvanized steel tubing and 4.554mm (.179") pre-galvanized steel sheet. Vertical posts shall be fabricated from 42.2 mm (1.66") x 11 gauge pre-galvanized steel tubing. Plates shall be fabricated from 3 mm (.12") sheet steel. Pods shall be fabricated from E.P.D.M. 50 duro rubber with a steel insert molded inside. All exposed steel shall be coated per PPLT PAINT specification



Playgrounds Fun & Easy!

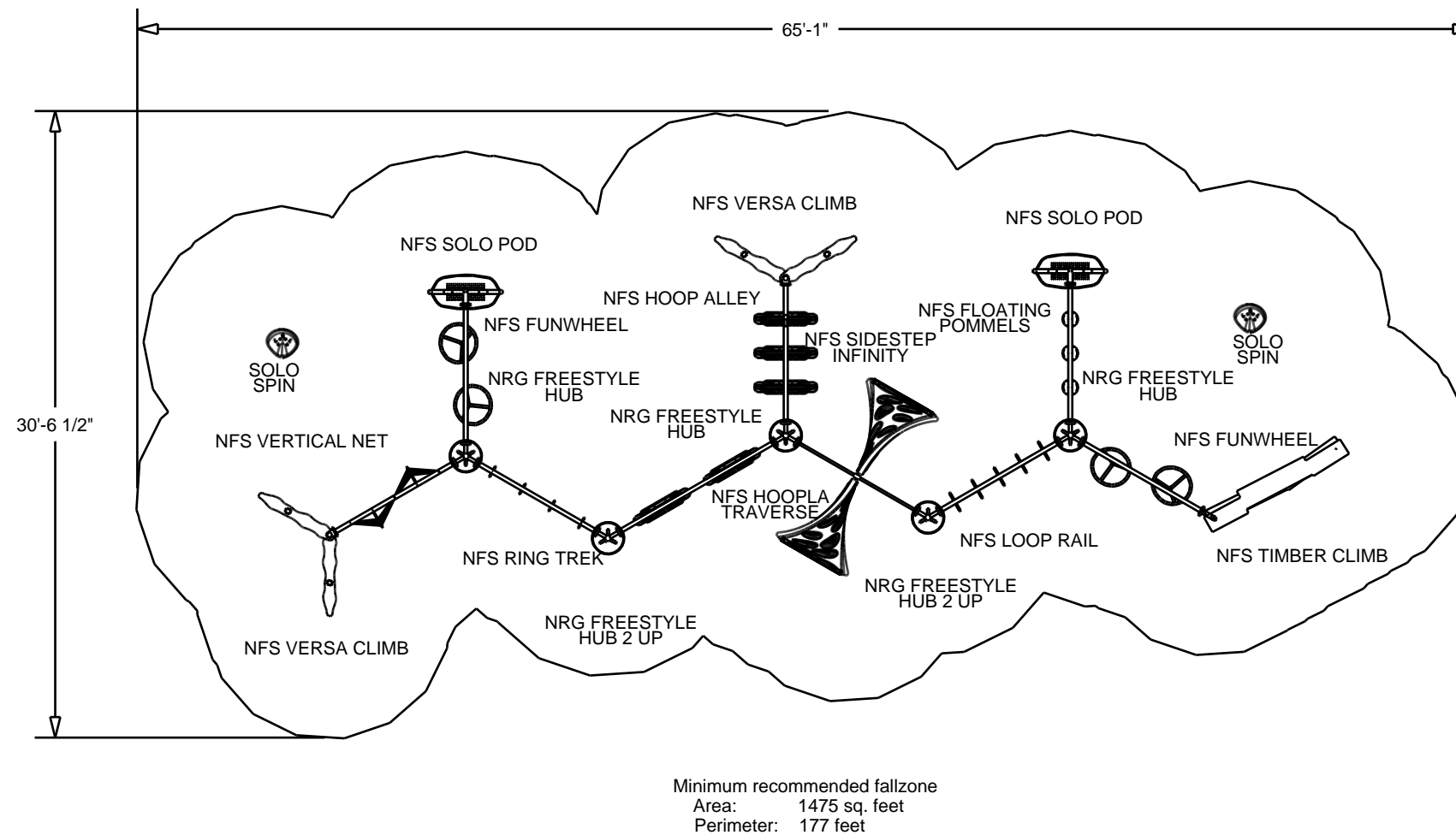
Representative:
Scott O'Reilly
 PlayPower Canada
 800-265-9953

Project:
Sycamore Lane Elementary

Project No.
 LH648_42331753044_1
 Drawn: 2015-11-24
 Drawn By: Scott O'Reilly

NOTES

- Scale*: 1/8"=1'
- The 2010 American with Disabilities Act (ADA) along with Architectural Barriers Act (ABA) Accessibility Guidelines requires you by law to make your park/play area accessible when viewed in its entirety. Please consult the Accessible Guidelines.
 - For play equipment to be considered accessible an accessible route must be available within the play area to all identified accessible components per ADA and ABA.
 - When adding to an existing play area, it is important to consider the total elevated components to ground level requirements including accessible routes.
 - All deck heights are measured from the top of the finished protective surfacing material.
 - Fall absorbing protective surfacing material is required under and around all play equipment within the play area.
 - The minimum recommended use/fall zone around each play structure and/or independent play equipment is outlined on the layout drawing.
 - Age appropriate label locations are marked with a double asterisk. (**)
- * Scale for reference only. Use dimensions as shown.



PlayArea:1
 Product line: TraditionalPlay
 Age group: 5-12
 Post type: N/A
 Rail Accent Color: Lime
 NFS Post Color: Tropical Yellow
 NFS Fun Wheel Color: Royal Purple
 VersaClimb Plastic Clr: Warm Granite
 VersaClimb Mounting: Buried
 NRG Plastic Clr: Grape (Purple)
 Nfs Hoopla Plastic Color 1: Grape (Purple)
 Nfs Hoopla Plastic Color 2: Lime
 Nfs Infinity #1 Plastic Color: Grape (Purple)
 Nfs Infinity #2 Plastic Color: Lime
 Mount Option: Buried

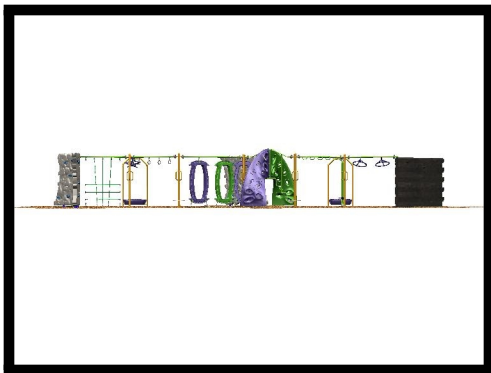
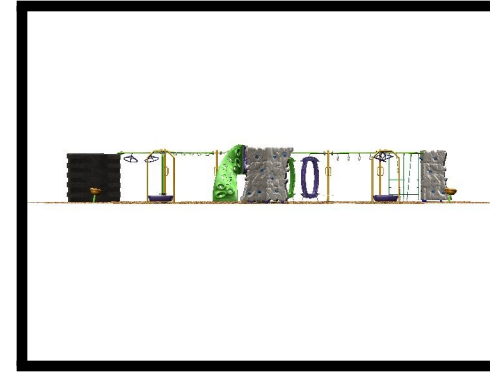
PlayArea:2
 Product line: TraditionalPlay
 Age group: 18m-5
 Post type: N/A
 Solo Spin Plastic Clr: Tropical Yellow
 Solo Spin Post Clr: Lime
 Mount Option: Buried

Playground Layout Compliance:

✓ CSA Z-614-14

This play equipment meets the requirements of CSA Z-614-14 for children 18m-12 years old. Not all equipment may be appropriate for all children. Supervision is required.

PlayPower LT Canada, Inc.
 P.O. Box 125
 Paris, Ontario N3L 3E7
 Phone: 1-800-265-9953
 Fax: 519-442-8200
 www.ltcsps.com



Playgrounds Fun & Easy!

Project:
**Sycamore Lane
 Elementary**

Project No.
 LH648_42331753044_1
 Drawn: 2015-11-24

Presented By:



Playgrounds by PlayPower

Scott O'Reilly
 PlayPower Canada
 800-265-9953



This play equipment meets the requirements of CSA Z-614-07 for children 18m-12 years old. Not all equipment may be appropriate for all children. Supervision is required.



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**SYCAMORE ELEMENTARY
PLAYGROUND 2015
SITE PLAN**

