



Design Description

Having read the criteria set out in your RFP Document we have come up with the enclosed designs. A component list is attached along with the designs.

Both Options was designed using Playworld's *Inclusive Play Design Guide*. This tool is a comprehensive guide which was created to assist designers, landscape architects, parks maintenance staff and the general public etc. with planning an inclusive play space. Inclusive playground success is not just about putting thoughtful, accessible equipment in a play space (ie. The "old school" idea of accessibility of including a ramp and sticking interesting products together), but being aware of the impact of decisions on the entire experience including: guidelines and laws, planning and preparation, layout and access, play richness, and site amenities.

Much thought and planning has gone into our designs using this guide and we'd like to outline just a few of the main features we've included and the reasons for them. Play Richness at all heights is a key factor when creating inclusion where children of all abilities can grow, learn and play together through physical, sensory, and social experiences. This design meets and exceeds the requirements of CAN/CSA-Z614 Annex H, and AODA requirements.

Our Option 1 design begins with our top of the line Playmakers 5" OD post and platform system. We have configured this system in a way that nicely fits your space and accents the surrounding area. This Nature Themed design includes all the desired components and some desirable added features while still providing access to all. The ramps, transfer stations and stairs provide users of all ages and abilities ease of access throughout the play space and to elevated play events. We have chosen components that have varying degrees of challenge for the 2 to 5 and 5 to 12 user age groups. The many ground level play events will also stimulate and encourage group play and inclusion.

Option 2 is designed using our new Unity connect series of play components. This nontraditional approach to play area design creates a unique visual appeal different from any other playground. This design also provides stimulating play and access to play components for users and care givers of all ages and abilities. Also included is our multi-user Unity Teeter Tunnel which is the only play event of its kind in the industry and has received rave reviews since its launch in 2015.

Both Options include a custom sign which can be used to identify park rules, donors or whatever you would like.

The following is a breakdown of the play components and the categories which they fall under taken from our inclusive play design guide.

Physical (Sliding): Stimulates a child's vestibular and visual sensory systems, allows a child to work on balance, offers the experience of a modified fall through space and the thrill of perceived risk.

- Tripple Racer Slide
- Slither Slide
- Adventure Slither Slide

Physical (Climbing, Crawling & Strengthening): Improve motor skills such as power balance, coordination, strength, and dexterity.

- Stalagmite Climber
- Treehouse Climber
- Spine Climber
- Log Crawl Tube
- The Grid
- The Wave
- Crater Wall
- The Low Arch
- The Wall
- Duplex Climber
- Oval Crater Wall
- Oval Crater Arch

Physical (Upper Body): Strength training is important for everyone, including children with motor control challenges such as cerebral palsy.

Increases muscle strength and endurance, helps protect muscles and joints from injury, strengthens bones, helps promote healthy blood pressure and cholesterol levels, and boosts metabolism.

- Horizontal Loop Ladder
- Sky Arch

Physical (Balancing): Balance is considered to fall into the same category as flexibility, core strength, and mobility as an essential ambulatory skill.

- Log Hops
- The Stump Jump
- Teeter Tunnel
- Flip Flop
- Wacky Log

Physical (Motion Play): All the benefits of motion should not be restricted to typically-developing families which include stimulating the vestibular system, helping to regulate anxiety, and developing muscle tone.

Teeter Tunnel

- Flip Flop
- Spinami
- Hoopla Swing
- Cozy Cocoon
- Swings

Sensory (Tactile): The tactile system is the largest sensory system in the body and plays a vital role in human behavior and physical movement. Tactile input helps the brain organize information for developing visual and auditory systems.

- ADA Bugs Panel
- ADA Bell Panel
- Chime Banner
- Drum Kit
- Horn Panel
- Log hops and crawl tunnel
- Stalagmite Climber

- Nature Hunt Panel
- Molded shapes underneath the slides

Sensory (Auditory and Visual Perception): All children enjoy music and other noises at some level and they especially enjoy sounds that they control. Use of the visual sensory system strengthens the eye muscles, the ability to focus on something, and the ability to see differences between objects that are similar.

- ADA Bell Panel
- Ground to Ground Babble On
- KPE Rhythm Spinner Panel
- KPE Nature Sounds
- ADA Horn Panel
- Balcony w/scope

Social (Cooperative Play, Social Interaction, Dramatic Play): In co-operative play, children share a common activity and work toward a goal together. Dramatic play assists children in expanding their awareness of self in relation to others and their social environment, learn language, cognitive and social skills.

- Ground to Ground Babble On
- Nature Hunt Panel
- Spinami
- Flip Flop
- Teeter Tunnel
- Cozy Cocoon
- Hoopla Swing

The following is a **CSA Annex H matrix** for each design:

Option 1 Play Area:

Accessible Routes present throughout via PIP EPDM rubber, engineered wood fibre, ramps and transfer stairs.

| | |
|----------------------------------|----|
| Elevated Play Components | 10 |
| Ground Level Play Components | 17 |
| Different Types of GL Components | 5 |

Annex H compliance requirements: Minimum 3 GL components with 3 different types.

100% of all elevated components are accessible via ramps and transfer stairs.

Annex H compliance requires 50%. This design exceeds all requirements.

Option 2 Play Area:

Accessible Routes present throughout via PIP EPDM rubber and engineered wood fibre

| | |
|----------------------------------|----|
| Elevated Play Components | 0 |
| Ground Level Play Components | 23 |
| Different Types of GL Components | 9 |

Annex H compliance requirements: Minimum 0 GL components with 0 different types. This design exceeds all requirements.

More information on our inclusive play design guide available upon request.

Cadzow Park

Design Number: 17-0753A - Compliance and Technical Data

Reference Document: CAN/CSA-Z614-14

| Ref. No. | Part No. | Qty. | Description | Unit CSA Status | Total Weight (lbs) | Pre- Consumer Recycled Content (lbs) | Post- Consumer Content (lbs) | CO2e Footprint (kgs) | Users | Install Hours | Concrete (Yds3) | Active Play Events |
|-------------|----------|------|--|-----------------------|--------------------------|---|---------------------------------------|----------------------------|-------|------------------|--------------------|--------------------------|
| 1 | ZZXX0151 | 1 | SPINAMI | Certified | 342.66 | | | 1,908 | 7 | 6.00 | 0.33 | 1 |
| 2 | ZZXX0155 | 1 | CUSTOM SIGN | N/A | 42.75 | | | 235 | 0 | 1.50 | 0.07 | 0 |
| 3 | ZZXX0199 | 1 | UNITY HOOPLA SWING | Certified | 324.59 | | | 2,001 | 6 | 4.00 | 0.52 | 1 |
| 4 | ZZXX0224 | 1 | ACCESSIBLE SWING SEAT w/SILVER SHIELD CHAIN TO 8ft TOP RAIL | Certified | 29.92 | | | 275 | 1 | 0.50 | 0.00 | 1 |
| 5 | ZZXX0260 | 2 | BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL | Certified | 17.60 | | | 108 | 2 | 0.50 | 0.00 | 2 |
| 6 | ZZXX0265 | 1 | INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL | Certified | 11.31 | | | 90 | 1 | 0.25 | 0.00 | 1 |
| 7 | ZZXX0287 | 1 | 5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL | Certified | 213.00 | | | 1,166 | 0 | 3.00 | 0.52 | 0 |
| 8 | ZZXX0370 | 1 | 5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY | Certified | 145.40 | | | 773 | 0 | 3.00 | 0.26 | 0 |
| 9 | ZZXX0483 | 1 | COZY COCOON - SPINNING | Certified | 132.00 | | | 834 | 3 | 1.50 | 0.13 | 1 |
| 10 | ZZCH0356 | 3 | 3.50in x 88in STEEL POST w/CAP | Certified | 89.13 | | | 119 | 0 | 3.00 | 0.39 | 0 |
| 11 | ZZPM0006 | 2 | 5in OD X 96in STEEL POST W/ RIVETED CAP | Certified | 108.42 | | | 163 | 0 | 2.00 | 0.26 | 0 |
| 12 | ZZPM0026 | 4 | 5in OD X 132in STEEL POST W/ RIVETED CAP | Certified | 296.84 | | | 434 | 0 | 4.00 | 0.48 | 0 |
| 13 | ZZPM0027 | 3 | 5in OD X 132in STEEL POST W/O CAP | Certified | 229.23 | | | 298 | 0 | 3.00 | 0.39 | 0 |
| 14 | ZZPM0036 | 3 | 5in OD X 144in STEEL POST W/ RIVETED CAP | Certified | 242.73 | | | 352 | 0 | 3.00 | 0.39 | 0 |
| 15 | ZZPM0037 | 3 | 5in OD X 144in STEEL POST W/O CAP | Certified | 236.43 | | | 325 | 0 | 3.00 | 0.39 | 0 |
| 16 | ZZPM0046 | 1 | 5in OD X 156in STEEL POST W/ RIVETED CAP | Certified | 87.71 | | | 126 | 0 | 1.00 | 0.13 | 0 |
| 17 | ZZPM0047 | 6 | 5in OD X 156in STEEL POST W/O CAP | Certified | 511.86 | | | 705 | 0 | 6.00 | 0.78 | 0 |
| 18 | ZZPM0056 | 1 | 5in OD X 168in STEEL POST W/ RIVETED CAP | Certified | 92.51 | | | 136 | 0 | 1.00 | 0.13 | 0 |
| 19 | ZZPM0617 | 1 | TRIANGULAR COATED DECK ASSEMBLY | Certified | 46.40 | | | 169 | 2 | 1.00 | 0.00 | 0 |
| 20 | ZZPM0619 | 2 | HEX COATED DECK ASSEMBLY | Certified | 457.44 | | | 1,275 | 16 | 4.00 | 0.00 | 0 |
| 21 | ZZPM0639 | 1 | 45 DEGREE TRI COATED DECK ASSEMBLY | Certified | 57.90 | | | 206 | 3 | 1.00 | 0.00 | 0 |



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|----------|----------|------|--|-----------------|--------------------|-------------------------------------|--------------------------------------|----------------------|-------|---------------|-----------------|--------------------|
| 22 | ZZPM0678 | 1 | NUVO- 48in TRANSFER STATION | Certified | 350.34 | | | 609 | 2 | 3.50 | 0.12 | 0 |
| 23 | ZZPM7537 | 1 | GROUND TO DECK WHEELCHAIR RAMP W/ GUARDRAILS (12in RISE) | Certified | 388.84 | | | 782 | 4 | 3.00 | 0.00 | 0 |
| 24 | ZZPM7539 | 1 | DECK TO DECK WHEELCHAIR RAMP W/ GUARDRAILS (12in RISE) | Certified | 379.30 | | | 737 | 4 | 3.00 | 0.00 | 0 |
| 25 | ZZUN9390 | 1 | 6in WHEELCHAIR RAMP CENTER SUPPORT | Certified | 7.93 | | | 10 | 0 | 0.50 | 0.06 | 0 |
| 26 | ZZUN9400 | 1 | 18in WHEELCHAIR RAMP CENTER SUPPORT | Certified | 10.79 | | | 13 | 0 | 0.50 | 0.06 | 0 |
| 27 | ZZPM1374 | 1 | TRIPPPLE RACER SLIDE | Certified | 767.03 | | | 2,117 | 6 | 6.50 | 0.09 | 1 |
| 28 | ZZPM3206 | 1 | SLITHER SLIDE 2.0 ENTRANCE & EXIT | Certified | 97.18 | | | 449 | 2 | 2.00 | 0.03 | 1 |
| 29 | ZZUN3207 | 1 | SLITHER SLIDE 2.0 (STRAIGHT SECTION) | Certified | 19.59 | | | 128 | 0 | 0.25 | 0.00 | 0 |
| 30 | ZZUN3209 | 2 | SLITHER SLIDE 2.0 (LEFT SECTION) | Certified | 39.18 | | | 267 | 0 | 0.50 | 0.00 | 0 |
| 31 | ZZUN3256 | 1 | SLITHER SLIDE 2.0 SUPPORT LEG 2ft-6in | Certified | 12.81 | | | 59 | 0 | 0.25 | 0.03 | 0 |
| 32 | ZZPM0599 | 2 | WHEELCHAIR CURB FOR HALF PANELS | Certified | 15.74 | | | 50 | 0 | 0.50 | 0.00 | 0 |
| 33 | ZZPM4408 | 1 | ACCESSIBLE BUGS PANEL | Certified | 42.96 | | | 269 | 1 | 1.00 | 0.00 | 1 |
| 34 | ZZPM4549 | 1 | NATURE HUNT PANEL (GROUND LEVEL) | Certified | 53.57 | | | 470 | 2 | 2.00 | 0.00 | 1 |
| 35 | ZZPM4637 | 1 | NATURE SOUNDS HALF PANEL | Certified | 35.30 | | | 908 | 2 | 0.50 | 0.00 | 1 |
| 36 | ZZUN4439 | 1 | TELESCOPE - PIPE WALL MOUNT WITH LENS (PM) | Certified | 13.33 | | | 219 | 1 | 0.50 | 0.00 | 1 |
| 37 | ZZUN5197 | 1 | NATURE FREESTANDING 6' LOG CRAWL TUBE | Certified | 136.91 | | | 980 | 3 | 4.00 | 0.12 | 1 |
| 38 | ZZPM4090 | 1 | CENTERLINE PIPE WALL BARRIER | Certified | 37.22 | | | 95 | 0 | 0.50 | 0.00 | 0 |
| 39 | ZZPM4288 | 4 | ACCESS GATE | Certified | 137.52 | | | 366 | 0 | 2.00 | 0.00 | 0 |
| 40 | ZZPM6817 | 1 | TREE HOUSE CLIMBER (60in DECK) | Certified | 138.23 | | | 902 | 2 | 2.00 | 0.06 | 1 |
| 41 | ZZPM8346 | 1 | SPINE CLIMBER TO TRIPPPLE RACER SLIDE | Certified | 50.66 | | | 203 | 2 | 1.00 | 0.03 | 1 |
| 42 | ZZUN8396 | 7 | 12in LOG HOP | Certified | 356.79 | | | 753 | 7 | 7.00 | 0.21 | 7 |
| 43 | ZZUN8428 | 4 | 16in LOG HOP | Certified | 215.76 | | | 466 | 4 | 4.00 | 0.12 | 4 |
| 44 | ZZUN8246 | 1 | ROCKBLOCKS STALAGMITE CLIMBER | Certified | 144.00 | | | 540 | 3 | 1.75 | 0.09 | 1 |
| 45 | ZZPM5780 | 1 | 6ft HORIZONTAL LOOP LADDER | Certified | 60.60 | | | 139 | 2 | 1.00 | 0.00 | 1 |
| 46 | ZZPM6906 | 1 | FLIP FLOP | N/A | 266.82 | | | 697 | 4 | 2.00 | 0.00 | 1 |



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|----------------|----------|------|--|-----------------------|--------------------------|---|---------------------------------------|----------------------------|----------------|------------------|--------------------|--------------------------|
| 47 | ZZCH4409 | 1 | ACCESSIBLE BELL PANEL | Certified | 22.16 | | | 211 | 1 | 0.50 | 0.00 | 1 |
| 48 | ZZCH4608 | 1 | CHIME BANNER | Certified | 26.43 | | | 260 | 2 | 0.75 | 0.00 | 1 |
| 49 | ZZCH4611 | 1 | HORN PANEL GROUND LEVEL | Certified | 43.14 | | | 482 | 2 | 1.00 | 0.00 | 1 |
| 50 | ZZPM4467 | 1 | GROUND TO GROUND BABBLE-ON | Certified | 45.47 | | | 248 | 2 | 1.50 | 0.00 | 1 |
| 51 | ZZUN5049 | 1 | DRUM KIT (20in HEIGHT) | Certified | 121.18 | | | 394 | 2 | 3.00 | 0.22 | 1 |
| 52 | ZZPM9806 | 6 | SMALL TREE TOPPER | Certified | 84.36 | | | 551 | 0 | 3.00 | 0.00 | 0 |
| 53 | ZZPM9807 | 6 | LARGE TREE TOPPER | Certified | 180.18 | | | 953 | 0 | 3.00 | 0.00 | 0 |
| 54 | ZZPM9170 | 1 | 24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK) | Certified | 174.86 | | | 374 | 1 | 2.00 | 0.00 | 0 |
| 55 | ZZPM9177 | 1 | 36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK) | Certified | 286.99 | | | 640 | 2 | 1.50 | 0.00 | 0 |
| 56 | ZZCHGUID | 1 | CHALLENGER GUIDELINES | N/A | 0.00 | | | 1 | 0 | 0.25 | 0.00 | 0 |
| 57 | ZZPMGUID | 1 | PLAYMAKER GUIDELINES | N/A | 0.00 | | | 1 | 0 | 0.25 | 0.00 | 0 |
| 58 | ZZUN9910 | 2 | SURFACING WARNING LABEL KIT | Certified | 0.10 | | | 1 | 0 | 0.50 | 0.00 | 0 |
| 59 | ZZUN9930 | 2 | PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL | N/A | | | | 180 | | | | |
| 60 | ZZXX0112 | 1 | CSA AGE GROUP LABELS | N/A | | | | 1 | | | | |
| Totals: | | | | | 8,479.10 | 1,074 | 2,204 | 28,216 | 104 | 119.25 | 6.41 | 35 |
| | | | | | 3,815.60 Kg | 483 Kg | 992 Kg | 28 Metric Tons | 4.87 m3 | | | |



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|-------------|----------|------|-------------|-----------------------|--------------------------|---|--|----------------------------|-------|------------------|--------------------|--------------------------|
|-------------|----------|------|-------------|-----------------------|--------------------------|---|--|----------------------------|-------|------------------|--------------------|--------------------------|

CAN/CSA-Z614-14

The lay-out for this custom playscape, design number 17-0753A, has been configured to meet the requirements of the CAN/CSA-Z614-14 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the CAN/CSA-Z614-14 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.

