

DATE October 20, 2020

INVITATION TO TENDER NO. PS20200899 CONTRACTOR FOR WINONA PARK PLAYGROUND REPLACEMENT

ADDENDUM NO.1

RE: <u>REVISED EDITS ON SCHEDULE A - SCHEDULE OF QUANTITIES AND PRICES &</u> SPECIFICATIONS (Please refer to them as the most current version)

ADDED WITH:

- Schedule A Schedule of Quantities
 - Item 1.1 Mobilization/Demobilization/Construction Fencing/Erosion and Sediment Control
- Add additional item on Alternate Prices table (see attached)
- Specifications
 - Hydraulic Seeding (Hydroseeding) see attached
 - Playground Equipment The text on Section 2.2.4 has been updated
- Added Separate Price table (see attached)

This addendum must be completed, and attached to your Application form.

NAME OF VENDOR

SIGNATURE OF AUTHORIZED SIGNATORY

DATE

Jason Lo Contracting Specialist

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SCHEDULE "A"

SCHEDULE OF QUANTITIES AND PRICES

EACH TENDER MUST COMPLETE THIS SCHEDULE A, AS AMENDED, IN FULL. EACH PAGE OF THIS SCHEDULE A MUST BE INITIALLED BY THE SIGNATORIES OF THE FORM OF TENDER. TENDERS MUST NOT BE SUBMITTED WITHOUT A COMPLETED, DULY EXECUTED SCHEDULE A.

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The Tender Price to complete all of the Work is apportioned in accordance with the following table. The prices shown in each of the numbered rows of the table shall include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*. GST shall be shown separately on the row provided therefor.

NOTE: Prices must be PST-inclusive. Only GST is to be shown as a separate line item.

The sum of the amounts shown in the table below <u>MUST</u> equal the Tender Price stipulated in the space provided in the Form of Tender which, for greater certainty, is the Tenderer's proposed Contract Price for a Contract to complete all of the Work.

EVERY ROW OF THE BELOW TABLE MUST BE COMPLETED WITH A DOLLAR AMOUNT, EVEN IF THAT DOLLAR AMOUNT IS \$0.

Item	Description	Total Price (including PST)
1.0	General Conditions	
1.1	Mobilization/Demobilization/Construction Fencing/Erosion and Sediment Control	\$
2.0	Site Preparation	
2.1	Clearing, Demolition, and Site Preparation Including but not limited to, removal and disposal of on-site materials, installation of tree protection fencing.	\$
	*Note: Existing playground to remain during construction.	
2.2	Excavation, Backfilling and Subgrade Preparation Including but not limited to bulk excavation works, placement of fill materials, proper off-site disposal of unsuitable and excess native material, subgrade reshaping, supply and placement of imported subgrade fill and related works.	\$
3.0	Drainage	
3.1	Site Drainage	\$

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Item	Description	Total Price (including PST)
	Including the supply and install of site drainage system as per Drawing L1.3, associated details and related works.	
4.0	Hard Surfacing	
4.1	Cast-in-Place Concrete	\$
	Including supply and installation of all cast-in-place concrete improvements and required base materials, including all surfacing, curbs, picnic table, bench and bike pads as per associated detail(s) and specification(s).	
4.2	Asphalt Paving	\$
	Including supply and installation of asphalt paving and base materials for new paths and resurfacing of existing paths as per detail Ld-04/L2.1 and specification(s).	
5.0	Soft Surfacing	
5.1	Play Sand	\$
	Including supply and installation of play sand as per detail Ld-07/L2.1 and associated specification(s).	
5.2	Engineered Wood Fibre (EWF) Playground Safety Surfacing	\$
	Including supply and installation of engineered wood fibre playground safety surfacing as per detail Ld-06/L2.1 and associated specification(s).	
5.3	Resilient Poured-In-Place Rubber Safety Surfacing	\$
	Including supply and installation of resilient poured-in-place rubber safety surfacing as per detail Ld-08/L2.1 and associated specification(s).	
6.0	Site Furnishings	

Item	Description	Total Price (including PST)
6.1	Owner Supplied Boulders	\$
	Including installation of owner supplied boulders. Price to	
	include pick-up of materials from off-site location (Kent	
	Yard) and delivery to site.	
6.2	Owner Supplied Furnishings	\$
	Installation of owner supplied benches and bike racks. Price	
	to include pick-up of materials at off-site location (Evans	
	Yard) and delivery to site.	
6.3	Picnic Tables	CASH ALLOWANCE:
	Including supply and installation of specified picnic tables.	\$5,000.00
6.4	Upright Logs Edging	\$
	Including supply and installation of owner supplied logs (VPB	
	source - Jericho Beach) and required base materials as per	
	associated detail(s) and specification(s).	
6.5	Upright Playground Logs	\$
	Including supply and installation of owner supplied logs (VPB	
	source - Jericho Beach) and required base materials as per	
	associated detail(s) and specification(s).	
6.6	Boulders	\$
	Including preparation and installation of owner supplied	
	landscape boulders (supplied by VPB from Kent Yard)	
	contractor to deliver to site). Price to include pick-up of	
	materials at off-site location (Kent Yard) and delivery to	

Item	Description	Total Price (including PST)
	site.	
7.0	Play Equipment	
7.1	 Allowance for Supply and Install of Play Equipment (or approved equal) Including supply and installation by Habitat (or approved equal) of: Sand Table Rollerslide Double Bobble Rider Swing Post Double Bay (including concrete footings where applicable) Netplex (Disc Net Climber, Rushwinder Slide, and SwiggleKnots Bridge) 	CASH ALLOWANCE: \$120,000.00
7.2	 Allowance for Supply and Install of Play Equipment (or approved equal) Including supply and installation by Rectec Industries (or approved equal) of: Kompan Net Twister (including concrete footings where applicable) Eurotramp Loop XL In-Ground Trampoline (including supply and install of drain rock and concrete curb) 	CASH ALLOWANCE: \$50,000.00

Item	Description	Total Price (including PST)
8.0	Landscape and Growing Medium	
8.1	Growing Medium	\$
	Including supply and installation as per associated detail(s) and specification(s).	
8.2	Mulch	\$
	Including supply and installation as per associated detail(s) and specification(s).	
8.3	Trees	\$
	Including supply and installation of specified trees shown on L1.4 as per associated detail(s) and specification(s).	
8.4	Shrubs	\$
	Including supply and installation of specified shrubs shown on L1.4 as per associated detail(s) and specification(s).	
8.5	Sod	\$
	Installation and establishment of sod at areas shown on L1.4 as per associated detail(s) and specification(s).	
9.0	Construction - Project Close Out	
9.1	Other	
	Contingency allowances and costs for any other works deemed necessary to construct the improvements as described in the drawings and specifications that are not already included in other payment categories listed above. A detailed description of the associated works must be provided for any costs listed here.	\$

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Item	Description	Total Price (including PST)
9.2	As Built Drawings	
	Including all mark-ups provided to the Consultant as a	\$
	condition of Substantial Completion, per Specifications.	
9.3	Establishment Landscape Maintenance	
	Including the maintenance of all landscape areas, including lawn and planted areas, and litter removal, from installation and until one (1) full year from the date of Acceptance for the entire landscape area in accordance	\$
	with the Specifications.	
9.4	Demobilization	\$
	Sub-Total (including all applicable PST)	\$
	GST (5%)	\$
	Tender Price (including all costs, taxes and fees)	\$

Breakdown of Separately Tendered Price to Complete (Subset One) Only

The price tendered by the Tenderer to complete (Subset One) only is apportioned in accordance with the following table. The prices shown in each of the numbered rows of the table shall include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*. GST shall be shown separately on the row provided therefor.

NOTE: Prices must be PST-inclusive. Only GST is to be shown as a separate line item.

The sum of the amounts shown in the table below <u>MUST</u> equal the price tendered in respect of [Subset One] by itself, as stipulated in the space provided in the Form of Tender which, for greater certainty, is the Tenderer's proposed Contract Price to complete only that subset of the Work.

EVERY ROW OF THE BELOW TABLE MUST BE COMPLETED WITH A DOLLAR AMOUNT, EVEN IF THAT DOLLAR AMOUNT IS \$0.

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Name of Tenderer

Initials of Signing Officer(s)

DEMOLITION OF EXISTING PLAYGROUND

Item	Description	Amount (including PST)
1.0	General Conditions	
1.1	Mobilization/demobilization/construction fencing/erosion and sediment control	\$
2.0	Site Preparation	
2.1	Clearing, Demolition, and Site Preparation Including but not limited to, removal and disposal of on-site material including play surfacing and associated build-up, edging, asphalt walkways and associated build-up and un-salvaged play equipment per drawings and specifications.	\$
2.2	Excavation, backfilling and Subgrade Preparation Including but not limited to bulk excavation works, placement of fill materials, proper off-site disposal of unsuitable and excess native material, subgrade reshaping, supply and placement of imported fill and related works.	\$
3.0	Landscape, Growing Medium and Maintenance	
3.1	Growing Medium Including supply and installation of 10" depth of growing medium as per specification(s).	\$
3.2	Hydroseeding Installation and establishment of hydroseeded lawn areas as per drawings and specification(s).	\$
3.3	Establishment Landscape Maintenance Including the maintenance of hydroseeded areas, and litter removal, from installation and until one (1) full year from the date of Acceptance for the entire landscape area in accordance with the Specifications.	\$
4.0	Subtotal (including all PST)	\$
5.0	GST (5%)	\$
6.0	Total price (including all costs, taxes and fees)	\$ (including PST and GST)

List of Unit Prices for Any Additional Work

These unit prices will be used for changing quantities from those indicated in the Tender Documents or Contract Documents upon written instruction from the City. The unit prices will be applied in accordance with PART 6 CHANGES IN THE WORK of the General Conditions of the Stipulated Price Contract (CCDC 2 - 2008), as modified by the Supplementary General Conditions (Schedule 1 to Part D - Form of Agreement). The prices should include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*.

ltom	Description	Unit	Unit Price (including PST)			
Item	Description	Unit	Add	Delete		
1.	Off-site disposal of excess fill material	m3	\$	\$		
2.	Cast-in-place reinforced concrete curb as per details Ld-06/L2.2 and Ld-07/L2.2	m2	\$	\$		
3.	Cast-in-place reinforced concrete paving including base preparation as per detail Ld-05/L2.1	m2	\$	\$		
4.	Asphalt paving including base preparation as per detail Ld-04/L2.1	m2	\$	\$		
5.	Drain rock as per plan L1.3 and detail Ld-08/L2.2	m3	\$	\$		
6.	Growing medium preparation and placement	m3	\$	\$		
7.	Mulch preparation and placement	m3	\$	\$		
8.	Tree supply and installation	Each	\$	\$		
9.	Sod supply and installation	m2	\$	\$		
10.	Poured-in-place resilient rubber surfacing and aggregate base as per detail Ld-08/L2.1	m2	\$	\$		
11.	Engineered wood fibre and aggregate base as per detail Ld-06/L2.1	m3	\$	\$		
12.	Play sand and aggregate base as per detail Ld-07/L2.1	m3	\$	\$		
13.	Boulders (0.5 -1m) non-VPB supplied	Each	\$	\$		

Alternate Prices

These alternate prices will be used to change the scope of the Work upon written instruction from the City. The alternate prices will be applied in accordance with PART 6 CHANGES IN THE WORK of the General Conditions of the Stipulated Price Contract (CCDC 2 - 2008), as modified by the Supplementary General Conditions (Schedule 1 to Part D - Form of Agreement). The prices should include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*.

	Price Change to Tender Price					
Description	Value to Add to Tender Price (inc. PST)	Value to Deduct from Tender Price (incl. PST)				
1. Replace sod (including 10" depth of growing medium) with hydroseeded lawn (including 6" depth of growing medium, supply and install)	\$	\$				
Refer to specifications (see attached)						
2. Replace Lonicera pileata (including 18" depth of growing medium and 2" depth of mulch; as shown on L1.4 and Ld-03/L2.1) with hydroseeded lawn (including 6" depth of growing medium, supply and install)	\$	\$				
Refer to specifications (see attached)						

PART 1: GENERAL

1.1 General Requirements

- .1 Refer to Division 1, General Requirements.
- .2 This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

1.2 Description

.1 Supply all products, labour, equipment, and services necessary to install plants by hydroseeding to all areas identified or disturbed by the work of this contract.

1.3 Related Work

.1	Landscape Maintenance	Section 32 01 90
.2	Growing Medium	Section 32 91 13
.3	Plants and Planting	Section 32 93 10

1.4 Reference Standards and Requirements of Regulatory Agencies

- .1 Conform to the requirements of the latest editions of the following standards and legislation:
 - .1 BCSLA/BCLNA British Columbia Landscape Standard
 - .2 British Columbia Standard for Turfgrass Sod
 - .3 British Columbia Weed Control Act
 - .4 Canada Seed and Fertilizer Act
 - .5 Canada Pest Control Products Act

1.5 Submittals

- .1 Submit dealer guarantee statements of composition of the mixture and the percentages of purity and germination of each variety of grass seed.
- .2 Submit the original seed containers which clearly identify the manufacturer's guarantee of seed analysis.
- .3 Submit completed Schedule A Application Record to the Owner's Representative.
- .4 Provide all product data for seed, mulch, tackifier and fertilizer as required and as requested by the Owner's Representative.

Submission in writing if requested by Owner's Representative fourteen (14) days prior to commencing Work of this Section:

- .1 Size of truck slurry in litres.
- .2 Amount of material to be used per tank based on size of slurry tank.

.3 Number of tank loads required per hectare to achieve specified slurry mixture per hectare.

1.6 Protection

- .1 Protect all seeded areas against trespassing and from damage at all times until Acceptance. If any seeded areas are damaged, they shall be repaired as required to satisfaction of Owner's Representative.
- .2 Comply with COV pesticide/herbicide control regulations regarding application of herbicides to control noxious weeds. Ensure all manufacturer's recommendations regarding application are strictly adhered to.

1.7 Testing and Approvals

- .1 Notify Owner's Representative at least forty eight (48) hours before installing seed for inspection of finished grades. Do not hydroseed until grades are approved by Owner's Representative.
- .2 Obtain approval in writing from the Owner's Representative for application of any chemical vegetation controls. Comply with applicable federal, provincial and municipal legislation and regulations.

1.8 Conditions for Acceptance

- .1 The conditions for acceptance of hydroseeded lawn areas and for turning over the hydroseeded areas to the Vancouver Park Board for subsequent maintenance are:
 - .1 Substantial Performance for the entire project shall have been declared.
 - .2 Hydroseeded lawn areas shall have been maintained as specified for a min. of 55 days. Hydroseeded lawn shall be mown as specified (to a height of 38mm) no more than two days before inspection for Acceptance.
 - .3 The hydroseeded lawn shall be uniformly healthy, in a vigorous growing condition, representative of a dense stand of grass, with all deficiencies corrected to the approval of the Owner's Representative. Lawn shall have no evidence of noxious weeds.
- .2 Inspection and Acceptance by the Board: Notify the Owner's Representative at least 48 hours in advance to schedule inspection of the entire landscape ready for Acceptance. Acceptance by the Board will only be given provided Maintenance as per Item 3.4 has been carried out and other Conditions of Item 1.8 have been met.

1.10 Time of Seeding

.1 The seeding shall be done during periods which are most favourable for the establishment of a healthy stand (of grass) and at times designated by the Board in accordance with the construction schedule and activities and coordinated with the local weather conditions.

- .2 No seeding shall be done when the soil is frozen, covered by frost or when there is standing or flowing water on the site, nor if the wind speed is greater than 5 km/h.
- .3 The seeding operations shall be completed before September 30, of the calendar year.

1.11 Guarantee

.1 All workmanship and materials covered under Work of this Section shall be guaranteed for a period of ONE (1) full year from the date of Substantial Performance.

PART 2: PRODUCTS

2.1 General

- .1 Product Handling
 - .1 All grass seed, hydraulic mulch fertilizers and related materials shall be stored in a dry, weatherproof storage place and shall be protected from damage by heat, moisture, rodents or other causes until time of use. Care shall be taken that labels and other identification(s) are not removed or defaced in any fashion.

2.2 Fertilizer

- .1 Granular Fertilizer: Standard approved brands delivered in original containers, bearing manufacturer guaranteed analysis, dry and free-flowing, organic base, conforming to the applicable Provincial Fertilizer Laws, not less than 19% Nitrogen, 19% Phosphoric Acid and 19% Potash (19-19-19), or as otherwise required based on growing medium test results and time of application.
- .2 Slow-Release Fertilizer: Prills designed to release nutrients over a period of months. Agriform 16-7-12 plus iron or equivalent.

2.3 Grass Seed

- .1 Shall be fresh, clean, new crop certified Canada #1 or better seed, in accordance with Government of Canada "Seeds Act", with a minimum germination of 75% and a minimum purity of 97%. Supplied in standard containers with the following information provided: suppliers name and address, lot number/year of production, net weight (mass), names and percentages of individual seed species and percentage of pure seed. Composed of the following varieties in the proportions and testing the minimum percentages of purity and germination indicated:
 - 10% Common Kentucky Bluegrass
 - 25% Common Creeping Red Fescue
 - 25% Common Chewings Fescue
 - 40% Turf Type Perennial Ryegrass

As supplied and mixed by: a recognized, pre-approved seed distributor acceptable to the Owner.

.2 Areas into which any other varieties of seed have been introduced will not be accepted. The Owner reserves right to test seed for purity and germination rate.

2.4 Mulch

- .1 Hydroseeding Mulch: Hydroseeding solution shall contain a mulch of dry virgin wood cellulose fibre specifically designed for hydraulic seeding, containing no growth or germination inhibiting factors, and dyed green with a water activated non-toxic dye for visual metering during application; "Ecofibre" as manufactured by Canfor or pre-approved equivalent. In addition:
 - .1 The Owner does not accept any mulches made from recycled materials such as paper, saw dust, cardboard or pulp residue.
 - .2 Mulch shall be capable of dispersing in water to form a homogeneous slurry and remaining in such a state when agitated or mixed with other specified materials. In addition it shall be capable of forming an absorptive mat ground cover allowing water percolation into underlying growing medium.
 - .3 It shall be free of weeds and other foreign material and shall be supplied in packages bearing the manufacturer's label clearly indicating weight and product name.

2.5 Tackifier

.1 M-Binder (Mesh Organic Soil & Mulch Binder)

2.6 Water

.1 Clean potable water (as supplied by Municipality) free of any impurities which would inhibit germination or otherwise adversely affect growth or be harmful to the environment.

2.7 Weed Control

.1 Manual weed control is the preferred method in COV and may be the only permitted methodology. Confirm with Owner's Representative. If chemical vegetation control is permitted, use herbicides of type and at an application rate as required to achieve the desired control. Use only standard commercial herbicide products registered for sale and use in Canada under the Pest Control Products Act. Do not use herbicides containing sodium chlorate unless specifically authorized by the Owner's Representative. Do not use herbicides containing 2, 4, 5,-T in public areas or where there is a possibility of contaminating ditches draining to irrigation or potable water and only as permitted by the COV.

2.8 Approved Equals

.1 All items as specified or pre-approved equals.

PART 3: EXECUTION

3.1 Soil Preparation

- .1 Grades:
 - Areas to be seeded shall be at grades shown at the time of seeding, free of "humps and hollows". Crown or slope for surface drainage and eliminate all low spots or depressions. Ensure that growing medium is placed to required depths and tolerances as specified and detailed in the Contract Documents and spread evenly over the approved subgrade. Ensure the growing medium is firm against footprints, loose in texture and free of all stones, roots branches etc as required under Section 02920 Growing Medium Preparation and Placement.
 - .2 Restore all areas to be seeded that are misshapen or eroded to specified condition, grade, slope as directed just prior to seeding. Minor adjustment and refinement of finish grade to be made as directed by Owner's Representative.
 - .3 Obtain Owner's Representative's approval of finish grading prior to proceeding.
 - .4 Ensure smooth finish on all surfaces and finished grades as shown on the drawings and as specified herein.
- .2 Clearing: Remove all weeds, briars, debris and other refuse and deleterious materials which may be detrimental to the growth of the grass.
- .3 Cultivation: as required to minimum depth of 100mm.
- .4 Moisture: ensure areas to be seeded are moist to minimum depth of 150mm before seeding.

3.2 Application

.1 Apply with equipment designed for hydraulic seeding, a uniform solution in water of:

Seed as specified24.4kg/1000 square meters

Fertilizer Type and Rate as required by soil testing analysis.

- Fibre Mulch 250kg/1000 square meters
- Tackifier Not required on flat areas or slopes up to 25%

6 kg/1000 sq. meters on slopes from 26%-35%.

(increase to 8 kg/1000 sq. meters on slopes greater than 35%)

.2 Ensure uniform distribution of the solution over the entire area, with adequate discharge pumps, hoses and gun nozzles.

- .3 Take precautions to protect planting beds, walks, roads, buildings and other site features such as signs, guardrails, fences, and utilities against spraying with the solution. Thoroughly clean any surface which is sprayed with the solution where not intended to the satisfaction of the Owner's Representative.
- .4 Do not perform work under adverse field conditions such as wind speeds over 5 km/h, frozen ground or ground covered with snow, ice or standing water
- .5 Apply seed in a uniform workmanlike and continuous fashion until completed. Seed which has been in the hydraulic seeder more than 2 hours shall be considered dead and must be replaced.
- .6 Submit completed Schedule A Application Record to the Owner's Representative on a daily basis.
- .7 No vehicular traffic will be permitted on areas to be seeded. All unreachable work or work under difficult control conditions shall be completed with use of hoses.
- .8 Ensure a minimum overlap of 450mm between applications to form uniform surfaces.

3.3 Supplementary Fertilizer Application

.1 Prior to Acceptance, at a time approved by the Owner's Representative, apply fertilizer formulation as recommended for the season at manufacturer's recommended rates evenly to all sodded areas. Water thoroughly.

3.4 Maintenance

- .1 Perform maintenance of the hydroseeded areas from time of seeding (date of installation) to date of Acceptance by the Board. Work to include: watering, cultivation, fertilizing, cutting, weeding, and all other measures necessary to ensure germination and development of a uniform, dense, healthy stand of grass.
- .2 Begin maintenance immediately after installation and continue until Acceptance by the Board of all hydroseeded lawn areas. Maintenance shall consist of all measures necessary to keep lawn healthy, in a vigorous growing condition and all other measures necessary to ensure germination and development of a uniform, dense, healthy stand of grass. Maintenance shall include, but shall not be limited to the following:
 - .1 Mowing shall be carried out at regular intervals as required to maintain grass at a maximum height of 60mm. (2-1/2"). Not more than 1/3 of the blade shall be cut at any one mowing. Edges of lawn areas shall be neatly trimmed. Heavy clippings shall be removed immediately after mowing and trimming.
 - .2 Watering shall be carried out when required and with sufficient quantities to maintain optimum soil moisture level for germination and continued growth of grass. Control watering to prevent washouts.
 - .3 Rolling shall be carried out when required to remove any minor depressions or irregularities.

- .4 Weed control shall be carried out when the density of weeds reaches 10 broadleaf weeds or 50 annual weedy grasses per 37 sq. M. (400 square feet).
- .5 Weed control, whether manual or chemical, shall reduce the density of weeds to zero. If chemical, apply in strict accordance with the manufacturer's recommendations and to the standards specified herein.
- .6 Any seeded areas showing deterioration or bare spots shall be repaired immediately. All areas shall be top dressed and over seeded with a seed mix matching the original seed mix.
- .7 All seeded areas shall be adequately protected with warning signs, temporary wire, twine or mesh fences as dictated by Owner's Representative. Fencing shall be maintained in good condition to provide a continuous barrier until Acceptance. Except as otherwise required by the work of this Contract, the fencing shall be removed from the site upon Acceptance/Assumption by the Owner.

3.5 Cleaning

- .1 Remove from the site all surplus materials and other debris resulting from seeding operations.
- .2 Flush all walks, pavement and any area surface sprayed with solution clean to the satisfaction of the Owner's Representative.

S	SCHEDULE A - HYDROSEED APPLICATION RECORD (SAMPLE)									
Project Name/Owner's Contract No.:										
Owner's Representative Date:				Weather Conditions _						
Contractor F Month:	oreman:			Size of Crew:						
Time	Load No.	Seed Mix/ Flower Mix	Fertilizer	Mulch	Tackifier					

END OF SECTION 32 92 21

PART 1: GENERAL

1.1 General Requirements

- .1 Refer to Division 1, General Requirements.
- .2 This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

1.2 Description

.1 Supply all products, labour, equipment, and services necessary to play equipment with required safety zones as indicated in the contract documents.

1.3 Related Work

.1 Concrete Forming and Accessories

Section 03 10 00 Section 03 20 00

.2 Concrete Reinforcing

1.4 Qualifications

- .1 The Playground Equipment installer shall have a minimum of five (5) years proven record of satisfactory performance and experience on projects of similar size and scope and shall maintain a qualified crew with at least one (1) <u>Canadian Certified Playground Inspector</u> throughout the duration of the work who shall be qualified with the CPRA.
- .2 Qualifications of Workers:
 - .1 Only competent skilled trades people holding the designation <u>Canadian Certified</u> <u>Playground Inspector's</u> who are thoroughly experienced with the material and methods specified may perform any playground installation work specified under the work of the Section.
 - .2 General labour type activities related to playground equipment installations may be performed by labourers and trades helpers who are thoroughly experienced with preparation procedures provided they work under the direct supervision of a skilled <u>Canadian Certified Playground Inspector.</u>
 - .3 Certification must be presented to the Owner's Representative or designated representative within 48 hours upon request, and produce written proof of such. A skilled <u>Canadian Certified Playground Inspector</u> shall be present at all times during the execution of the playground installation work.

1.5 Quality Assurance

- .1 All layout, materials and work must meet or exceed requirements of the latest edition of the CSA standard CAN/CSA-Z614-14 Children's Play spaces and Equipment and the IPEMA (International Play Equipment Manufacturers Association) standard.
- .2 Hazardous materials such as asbestos, polychlorinated byphenyls (PCB's) and lead based paints are not permitted on site.

- .1 A copy of the CSA standard CAN/CSA-Z614-14 Children's Play Spaces and Equipment shall be kept on site for the duration of the construction schedule.
- .2 Should modifications to the CSA Guidelines occur, and then the modifications shall govern.

1.6 Protection

- .1 Protect all play equipment and components against damage during shipping, handling, storage and installation, and until Final Acceptance.
- .2 Provide protected storage of play equipment prior to installation off the ground and free from dampness.
- .3 Provide all necessary facilities/equipment for handling and lifting site furnishings-play equipment into final location.
- .4 Take all reasonable measures to protect surrounding or adjoining work or as requested by the Owner's Representative, including all material, plant and real property related to the Work against loss or damage from any cause.
- .5 Safety: The Contractor will be responsible for all aspects of job safety at the work site as per the contract documents. All work must be carried out in a safe and responsible manner. Where applicable, Workers Compensation Board "Industrial Health and Safety Regulations" must be followed.
- .6 Contractor is responsible for ensuring adequate public safety in his work area at all times. No operating equipment is to be left unattended and the work area is to be left in a safe, secure condition at the end of each workday. Ensure that any partially installed play equipment is adequately signed with warning signs stating "CONSTRUCTION AREA -KEEP OFF" and that the overall area is properly barricaded by fences or approved guards from public access until Final Acceptance.

1.7 Submittals

- .1 Provide shop drawings of all play equipment, and obtain Owner's Representative's approval <u>prior</u> to manufacture. Shop drawings shall show overall dimensions, layout, height relationships, and footing and anchoring methods adapted as necessary to the requirements of this project. Shop drawings shall show clearances to the edge of play area to meet the CSA Standards. The provided installation instructions and maintenance instructions shall be "project" specific containing component information that is part of the playground design. A "generic" package of installation instruction and maintenance instructions is not acceptable. Shop Drawings will become part of the Maintenance Manual.
- .2 Submit a copy of the supplier's warranty statement stating all exclusions. The warranty certificate shall be filled out/completed by the Contractor/Supplier acknowledging the Vancouver Park Board (with site location) as the Owner.
- .3 Submit completed Schedule A Sample Inspection Report Form to the Owner's Representative upon completion of the project. See Schedule A below.

<u>Maintenance Manual/Kit:</u> Prior to and as a condition of Substantial Performance the Contractor shall submit a project specific maintenance manual/kit for all Project Play Equipment. This manual shall:

- .1 Provide information to establish the frequency of inspections.
- .2 Describe preventative maintenance and repair procedures.
- .3 Provide copies of project specific inspection Report Forms for each play component shown on the Drawings.
- .4 A reproducible copy of the as constructed Play Component System produced by the Contractor or supplier/manufacturer.
- .5 Provide 2 sets of any special tools or wrenches necessary to adjust or replace any special vandal resistant fasteners.
- .6 Provide a PVC repair kit for repair of minor PVC damage.
- .7 Provide an anti-graffiti chemical cleaner for removal of paint, ink or other forms of graffiti from the various surfaces/materials used on the play structure.
- .8 A primer and matching colour touch-up kit compatible with the original manufacturer's finishing system.
- .4 The Contractor/manufacturer shall submit with their bid a list of all variances from these specifications.
- .5 Provide all necessary templates for location of fixing devices prior to pouring of concrete bases.

1.8 Guarantee

.1 The play equipment and complete installation shall be warranted for three (3) full years from the date of Substantial Performance. Repair or replace any faulty work or parts within 7 days after notification by the Park Board. Do not permit dangerous conditions in or around the play equipment. Refer also to inspection requirements Item 3.4.2 of this Specification.

PART 2: PRODUCTS

2.1 General

- .1 All materials shall have demonstrated record of durability in the playground or similar outdoor settings.
- .2 Site Specificity of Design Equipment selection is based on specific program requirements, physical constraints within the site, and public input. Requests for Product Substitution will be subject to certain subjective criteria including (in no particular order):
 - .1 Similarity to specified play structure components
 - .2 Footprint
 - .3 Colour Availability
 - .4 Geometry

- .5 Apparent Mass and/or Visual Density
- .6 Proven Performance Record
- .7 Variance The Contractor/manufacturer shall submit with their bid a list of all variances from these specifications.

2.2 Play Equipment

- .1 Play equipment shall be CSA-approved manufactured units, consisting of the components shown in the drawings, and all incidental components required for a proper warranted installation. As shown in the drawings or pre-approved equal.
- .2 Colour of play components: select from manufacturer's standard colour range as shown in Landscape Drawings.
- .3 Play equipment shall be as specified on Landscape Drawings, install as per manufacturers specifications.
- .4 Contractor must order Play Equipment prior to February 28, 2020 December 18, 2020 to guarantee pricing and prevent project delay.

2.3 Resilient Play Area Safety Surfacing

- .1 <u>Sand:</u> shall be medium <u>WASHED</u> play sand as supplied by Lafarge. Submit 1litre sample for approval.
- .2 <u>Engineered Wood Safety Surface:</u> Fibar System 300 complete w/ FibarMat, FibarFelt and FibarDrain as supplied/installed by RecTec Industries, or pre-approved equal.
- .3 <u>Rubber Surfacing</u>: Landsafe as supplied by Marathon Surfaces Inc, Surrey, B.C. or preapproved equal. 5 year minimum warranty as a performance requirement. Colours as shown in Landscape Drawings

2.4 Approved Equals

.1 All items shall be as specified or <u>approved</u> equals.

PART 3: EXECUTION

3.1 Preparation and Layout

- .1 Examine the areas and conditions under which work of this Section will be performed. Verify safety zones of all equipment before setting posts in concrete footings. Do not proceed until conditions detrimental to proper and timely completion of the work have been satisfactorily corrected and thus meet the manufacturer's instructions and the requirements. Beginning work constitutes acceptance of conditions as satisfactory.
- .2 Before installing play equipment or safety surfacing, verify that the subgrades are uniform, smooth, well drained and set at correct elevations to allow for installation of specified depth of resilient safety surfacing to the correct finished grade.

.3 Lay out the play equipment in the designated area to ensure compliance with safety zone clearances. Stake the locations of all equipment/site furnishings and obtain the approval of the Owner's Representative prior to installation. Lay out play equipment locations with flags and short lengths of string as required/requested by Owner's Representative. Obtain Owner's Representative approval before proceeding. Install with the required safety clearances between play equipment units and to retaining curb or other objects. The layout shall be in accordance with the drawings. Alternative layouts shall be approved by the Owner's Representative.

3.2 Installation of Compound Structures and Independent Activities

- .1 Install play equipment and resilient safety surfacing in strict adherence to manufacturer's instructions, level and plumb and maintaining recommended safety clearances. Adapt footing and anchoring methods as necessary to the requirements and specific site conditions of this project in accordance with approved shop drawings and in such fashion that work of other Sections is not damaged. Layout all equipment prior to construction.
- .2 Provide all concrete footings as required to properly place the equipment components. It is the Contractor's responsibility to adjust drainage pipe or other new utility locations to accommodate the equipment footings.
- .3 Place specified depths and areas of resilient safety surfacing as per detail drawings.

3.3 Protection

.1 During construction of the play equipment structures, provide PVC web fence material in sufficient quantities and wrap the structures to prevent public access onto the equipment. Maintain the fencing wrap after completion of the play equipment and safety surfacing installation through completion of the project.

3.4 Inspections

- .1 Provide a min. 48 hours notice in order to schedule all inspections. Delay claims filed by the Contractor resulting from failure to provide adequate notice of inspection required will not be entertained. All aspects of this work shall be subject to inspection by the Owner's Representative or their designated inspector. Inspector/approval points shall be of a frequency sufficient to ensure adequate Quality Control in accordance with this specification and will occur thorough the duration of the Contract. The Contractor must supply access to the work for the Owner's Representative or their Inspector. As a minimum, inspections will occur as follows:
 - .1 Upon arrival of play equipment to the site.
 - .2 After staked layout of proposed play equipment locations.
 - .3 After play equipment anchor post installation.
 - .4 Upon Final Acceptance/Assumption by the Vancouver Park Board.

.2 The Contractor is required to visit the site a minimum of two (2) times during the warranty period to ensure all play equipment/site furnishings are performing satisfactorily/functioning as intended and perform any maintenance services required. The first visit is to occur approximately six (6) months after the Assumption Date by the Board and the second visit is to occur approximately two (2) weeks prior to the end of the warranty period.

3.5 Site Maintenance/Clean Up

- .1 The job site shall be kept in a neat, clean and orderly condition at all times during the installation process.
- .2 Footing excavation and backfilling shall be continuous so that the amount of open excavation at the end of each workday is minimized. Any open trench or other excavations shall be barricaded and marked with high visibility marking tape to current WorkSafeBC requirements.
- .3 Any damage to paving, planting or any other structures/elements due to settlement of improperly compacted footings shall be immediately repaired at the Contractor's expense to the satisfaction of the Owner's Representative.
- .4 Remove and disposal of offsite all surplus material, excess excavated materials, trash, debris and waste material from the work of this Section. This clean up shall include removal of all delivery packaging.

Park Name: Inspection Date: Inspector's Name:											-	
Individual Equipment Components						Equip	oment					
	Toddler Swing	Junior Swing	Tire Swing	Spiral/ Straight Slide	Spring Toys	See-Saws	Climbing Structures	Merry Go- Rounds	Composite Structure	Composite Structure	Safety Surfacing	General Site
Chains												
S-Hooks/C-Hooks												
Seats/Tire/Belts												
Hanger Bearings												
Grease Fittings												
Stability/Tilting												
Exposed Concrete									ı			
Entanglement Points												
End/Center Fittings												
Chain Covers												
Hand Rails												
Support Bars/Legs												
Fastening Point/Areas				-					r			
Sidewalls/Bedway												
Entrapment Point/Areas												
Sharp Edges/Points												
Stair/Steps												
Plastic Component Cracking/Damage											_	
Spring/Bars												
Handles											_	
Pivot Points				_								
Individual Equipment Components						Equip	oment					

Schedule A: Inspection Report Form

Vancouver Board of Parks and Recreation Winona Park

11 68 13 Play Equipment

	Toddler Swing	Junior Swing	Tire Swing	Spiral/ Straight Slide	Spring Toys	See-Saws	Climbing Structures	Merry Go- Rounds	Composite Structure	Composite Structure 2	Safety Surfacing	General Site
Nuts and Bolts												
Ground Clearance												
Locking Devices												
Wood Checks/Splits (max. 19mm)												
Protrusions												
Caps/Plugs												
Protective Surfaces Borders												
Equip. Spacing/ Encroachment												
Bench Seats												
Debris/Broken Glass												
Asphalt Paths												
Fencing												
Condition: Satisfactory T												
Condition:												
Requires Attention X												
Other Comments:												

END OF SECTION 11 68 13