|             |   | AC  | GENDA ITEM NO:   | 7.4   |
|-------------|---|---|--|---|
|             |   | М   | EETING DATE:   | July 18, 2023   |
|             |   | <u>STAFF REPORT – COV</u>   | /ER SHEET  |   |
| SUBJECT:    |   | RFP Award – 2023 Novice Pump Tracks<br>Design/Build Project   | DATE:  | July 8, 2023  |
| DEPARTMENT: |   | Operations  | PREPARED BY:   | Richard Fortin  |
| 1.          | SUMMAF  | RY OF ISSUE:  |  |   |
|             | neighbou<br>companie<br>two (2) R<br>and both<br>A budget | t for Proposal (RFP) was released for the derhood pump tracks. The City received initions; however, due to the specialized nature of FP submissions were received by the due dowere found to meet the technical requirer of \$600,000 was allocated in the RFP for the cks. A decision is required to award the RFP | al enquiries from se<br>of pump track desig<br>ate and time. The<br>nent.<br>ne design and const | everal asphalt paving gn and construction, only submissions were reviewed, cruction of two (2) novice |
| 2.          | RECOMM  | IENDATION:  |  |   |
|             | Velosolut   | endation that Council award the RFP "2023<br>ions Canada West Ltd. in the amount of \$4<br>Nayor and Corporate Officer be authorized  | 99,392.77 (plus apr<br>to sign any necessa   | olicable taxes); and further  |
| 3.          |   | COMMENTS: funds are available within the provincial G  Gl   | rowing Communities  Sleven  En Savard, Director  | Pavo  |
| 4.          |   | MINISTRATIVE OFFICER'S ENDATION/COMMENTS:   | - 0!   |   |
|             | Supports r  | recommendation.   | lloman   |   |

Chris Crosman, CAO

# STAFF REPORT ON RFP Award – 2023 Novice Pump Tracks Design/Build Project

| PREPARED BY: | Richard Fortin         | _ DATE:       | July 18, 2023 |
|--------------|------------------------|---------------|---------------|
| POSITION:    | Parks Planning Manager | _ DEPARTMENT: | Operations    |

#### 1. BACKGROUND:

The City of Chilliwack's primary pump track facility was established in 2020, featuring two tracks catering to advanced and intermediate skill levels. This facility has achieved remarkable success by attracting a diverse range of users and skill levels, not only from the local community but also from around the globe. The success of the main track highlighted the necessity for beginner-level skill development and training areas.

In response to this demand, a Request for Proposal (RFP) was issued to procure an experienced proponent capable of designing and constructing a smaller, more basic pump track facility. The purpose of the facility was to provide a conducive environment for beginners to learn the fundamental techniques of riding a pump track. This novice track area was designed in two sections. One section was to accommodate kick bikes, striders, tricycles, and wheeled mobility apparatus, allowing riders to familiarize themselves with the basic features of a pump track. The other section further enhanced riders' skills by focusing on the proper "pump" technique used in riding pump tracks.

Due to the growing popularity of this facility, Mayor and Council allocated funds for future development of two additional neighbourhood novice pump tracks. The Government of BC grant under the Growing Communities Fund enabled these two tracks to be built in 2023. Jinkerson Park and Vedder Park have been selected as the locations for these tracks.

### 2. FACTORS:

A Request for Proposal (RFP) was released and due to the specialized nature of pump track design and construction, only two (2) submissions were received. These submissions were reviewed and qualified.

| Company                                   | Bid           | Score  |
|---|---------------|--------|
| Velosolutions Canada West Ltd.            | \$ 499,392.77 | 92.20% |
| Momentum with Van der Zalm and Associates | \$ 560,000.00 | 75.24% |

### 3. RECOMMENDATION & SUBSTANTIATION:

Recommendation that Council award the request for proposal "2023 Novice Pump Tracks Design/Build Project" to Velosolutions Canada West Ltd. in the amount of \$ 499,392.77 (Plus applicable taxes); and further that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

### SUBSTANTIATION;

The review of the submission was conducted by a four (4) member review team; and the submissions were found to meet all of the requirements set out in the RFP. Factors that influenced the review include but are not limited to the following;

### A. Conceptual Design

- Design and installation two (2) novice neighbour pump tracks.
- Ensure the conceptual and final designs are completed by a professional experienced in pump track design (asphalt or dirt), or of a related discipline in professional skatepark designes; BMX park designers, or similar type facility designer.
- Develop conceptual designs that fit into the area identified.
- Provide conceptual drawings for the two novice asphalt pump tracks, including dimensions, features, and materials.
- Describe each track's layout, including alignment, slope, and curvature.
- Identify conceptual staging areas, rest areas, and safe traffic flow concepts.
- Identify any additional design elements, such as berms, jumps, rollers, and rhythm sections, that may be included in the pump tracks. Each design must work in the prescribed location.
- Provide examples or references of similar pump tracks that may be used as inspiration or benchmarks for the design.
- Provide any 3D renditions or pictures of similar features of the concept design to highlight the main and any innovative features of the proposed design/layout.
- B. Working Drawings/Design Required AFTER Project Acceptance
  - Produce and supply detailed working drawings for the construction of two (2) novice asphalt pump tracks in Jinkerson Park and Vedder Park including all dimensions, features, and materials completed by a professional in the industry.
  - Provide a detailed description of each track's layout, including its alignment, slope, and curvature.
  - Provide a conceptual site grading and drainage design to convey all stormwater away from the track and surrounding landscaped areas via a system of catch basins and underground soak away pits.

### **VEDDER PARK CONCEPT DESIGN**

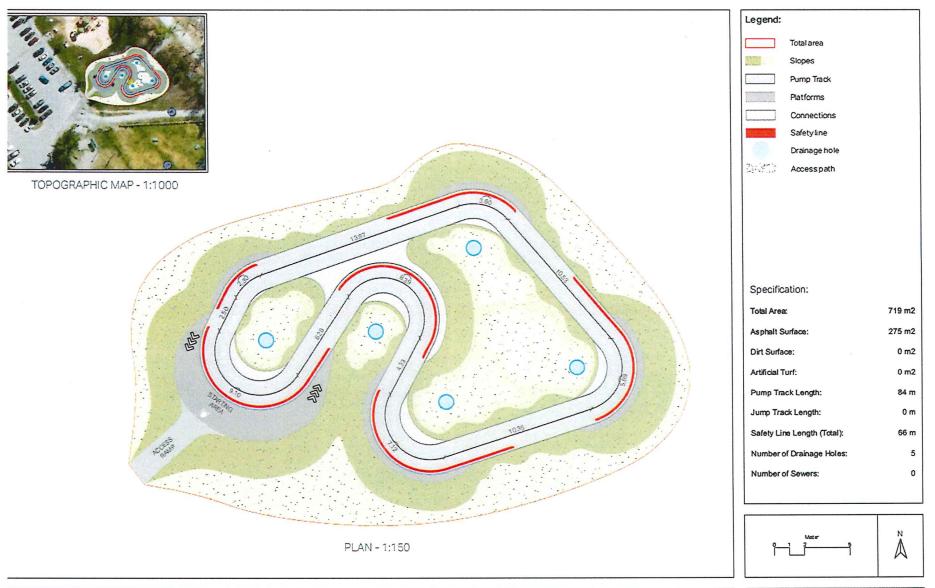
We have provided you with a unique design that utilizes the given space in Vedder Park, it provides users of all ages and of a novice ability a fun and progressive track, with the opportunity to be creative. The design stays within the 22 m. x 22 m. allocation.

The track is suited for riders of a Novice level, but can also be enjoyed by more advanced riders. The pump track is approximately 84 meters in length, 2 meters wide, with 4 large berms, 2 open turns as well as 3 straights. There is one starting area located to the West side of the track, the starting area and berm height will be between 1.2m. - 1.3m.

The track is a good mix of technical tight sections and more open faster sections, providing riders with a great balance to help progress their skill level in multiple areas. The tracks design will also allow younger riders who are using balance bikes to enjoy.

#### The track will include:

- . Directional arrows on track including entrance and exit locations (anti-clockwise riding direction).
- Flat open waiting/ entrance/ exit area.
- Natural drainage system will be situated on the inside of the track where there are 5 French drains.



| elosolutions            | Chilliwack - Ve |   |  |
|-------------------------|-----------------|---|--|
| Pumotracks & Bike Parks | Pump Track      | Р |  |

| Chilliwack - | Vedder Park | Track Design:  | Tech. Drawer.                          | Client | Project number: |  |
|--------------|-------------|--|--|--------|-----------------|--|
| Preliminary  |             | Claudio Caluori  | Amedeo Gadotti City of Chilliwack 22-0 |        | 22-0059         |  |
| Pump Track   | Design      | Copyright Reserved - This plan and design are, and at all times, remain the exclusive property of VELOSCLUTIONS and may not be used or reproduced without written consent. |  |        |                 |  |

| Prelimina  | ry Design         |
|------------|-------------------|
| 07-04-2023 | Scale: 1:150 / A3 |

### **JINKERSON PARK CONCEPT DESIGN**

We have provided you with a unique design that utilizes the given space in Jinkerson Perk, it provides users of all ages and of a novice ability a fun and progressive track, with the opportunity to be creative. The design stays within the 20m. x 20m. allocation.

The track is suited for riders of a Novice level, but can also be enjoyed by more advanced riders. The pump track is approximately 73 meters in length, 2 meters wide, with 3 large berms, 1 open turns as well as 2 large straights. There is one starting area located to the West side of the track, the starting area and berm height will be between 1.2m. - 1.3m.

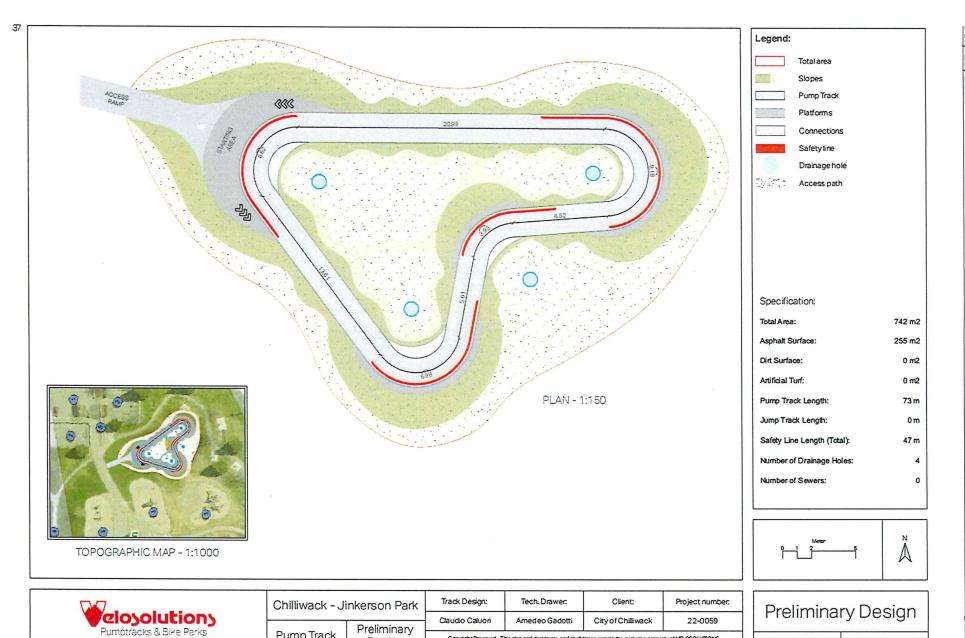
The track is a good mix of technical tight sections and more open faster sections, providing riders with a great balance to help progress their skill level in multiple areas. The tracks design will also allow younger riders who are using balance bikes to enjoy.

#### The track will include:

- . Directional arrows on track including entrance and exit locations (anti-clockwise riding direction).
- Flat open waiting/ entrance/ exit area.
- · Natural drainage system will be situated on the inside of the track where there are 4 French drains.

07-04-2023

Scale: 1:150 / A3



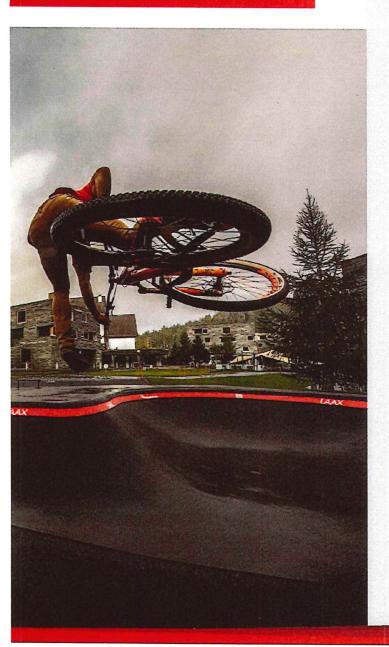
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Pump Track

Design

# STIMATED MATERIAL AMOUNT





| M |  |  |  |  |
|---|--|--|--|--|
|   |  |  |  |  |
|   |  |  |  |  |

| MATERIAL  |        |
|---|--------|
| Structural pad 3" Minus                             | 576 t  |
| Drainage gravel 1 1/2"                              | 50 t.  |
| Suitable fill material 3/4" Road base (compactable) | 700 t. |
| Asphalt (special velosolutions mix)                 | 70 t   |
|   |        |

#### MATERIAL

| Structural pad 3" Minus                              | 540 t. |
|--|--------|
| Drainage gravel 1 1/2"                               | 40 t   |
| Suitable fill material 20mm. Road base (compactable) | 550 t  |
| Asphalt (special velosolutions mix)                  | 60 t   |

# **VEDDER & JINKERSON PARK COMBINED MATERIAL TOTAL**

| Structural pad 3" Minus                             | 1,116 t |
|---|---------|
| Drainage gravel 1 1/2"                              | 100 t.  |
| Suitable fill material 3/4" Road base (compactable) | 1250 t. |
| Asphalt (special velosolutions mix)                 | 130 t   |

### **PUMP TRACK SPECIFICATIONS**



**BERM DETAIL** 

Asphalt

Shaping 3/4" Road Base



Berm X- Sections Dimensions French Drain Detail

Legend Structural Pad Vegetation

3"Minus

Drainage Rock Natural

Ground





Height

Maximum height of berms and platform 1.30m

Maximum track width: 2m

Berm coping to coping: 7-8m Back slope average: 2.5m

Structural pad (Base layer) | Approx. 250-300mm thickness | 3" Minus. French Drain | Hole approx. 1.5 cubic m | Drain rock 70-80mm |

Surrounded by Geo Textile to separate/ hold material. Shaping | Variable Thickness | 3/4" Road Base for shaping. Asphalt | 80mm thickness for riding surface.

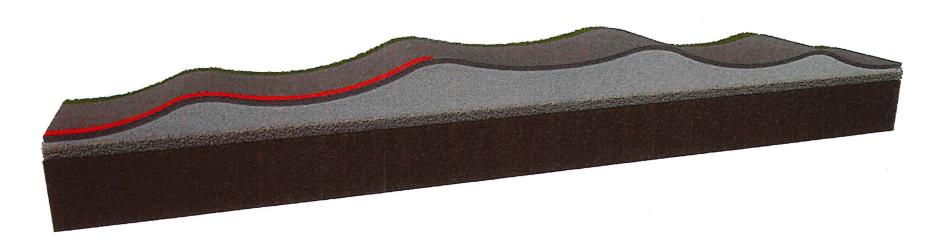
Material Thickness

Width

# PUMP TRACK SPECIFICATIONS

elosolutions

ROLLER DETAIL



| Roller X- Sections |  |                   |  |                       |  |
|--------------------|--|-------------------|--|-----------------------|--|
| Legend Dimensions  |  |                   |  |                       |  |
| Vegetation         |  | 3" Minus          |  | Height                | Meximum height of rollers 1.30m  |
|                    |  |                   |  | Width                 | Maximum track width: 2m  |
| Asphelt            |  | Netural<br>Ground |  | Material<br>Thickness | Structural pad (Base layer)   Approx. 250-300mm thickness   3" Minus.  French Drain   Hole approx. 1.5 cubic m   Drain rock 70-80mm. |
| 3/4" Road Bace     |  |                   |  |                       | Shaping   Variable Thickness   3/4" Road Base for shaping.  Asphalt   80mm thickness for riding surface.                             |

### **PUMP TRACK SPECIFICATIONS**

STRAIGHT DETAIL



