**PART C**

**FORM OF TENDER**

**City of Surrey** (the “*Owner*”)

***Contract* Name*:*** Synthetic Turf Supply and Installation – Tom Binnie Park

**Reference No.:** 1220-020-2023-001

**TO OWNER:**

**1. WE, THE UNDERSIGNED:**

 1.1 have received and carefully reviewed all of the *Tender Documents*, including the Instructions to Tenderers, the Form of Tender, the *Contract Documents*, the *Specifications* and *Drawings*, City of Surrey’s Supplementary General Conditions, and the following Addenda, if any:

|  |  |
| --- | --- |
| **Addendum No.** | **Date Issued** |
|  |  |
|  |  |

1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

1.3 have complied with the Instructions to Tenderers; and

**2. ACCORDINGLY WE HEREBY OFFER:**

2.1 to perform and complete all the *Work* and to provide all the labour, *Construction Equipment* and material all as set out in the *Tender Documents*, in strict compliance with the *Tender Documents*; and

2.2 The *Work* on this *Project* is anticipated to commence on **July 4, 2023** and to be substantially completed on **August 18, 2023.**

2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices listed in Appendix 1 - Schedule of Quantities and Prices, plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of *Tender* comparison, our *Tender* is to perform and complete the *Work* for the “*Tender Price*” as set out on Appendix 1 of this *Form of Tender*. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and includes GST

**3. WE CONFIRM:**

 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices (if any)* are estimated, and that the actual quantities will vary.

**4. WE CONFIRM:**

 4.1 that the following appendices are attached to and form a part of this *Tender*:

 4.1.1 Appendix 1 – Schedule of Quantities and Prices

 Appendix 2 – Force Account Labour and Equipment Rates

 Appendix 3 – Preliminary Construction Schedule

 Appendix 4 – Tenderer’s Experience in Similar Work

 Appendix 5 – Tenderer’s Senior Supervisory Staff

 Appendix 6 – Subcontractors and Suppliers

 Appendix 7 – Assurance of Permeable Aggregate Supply

 Appendix 8 – Technical Product Data Sheets (Turf, Infill and Pad)

 4.1.2 the bid security as required by paragraph 10.1 of Part B - Instructions to *Tenderers*; and

4.1.3 the Agreement to Bond – Performance, and Labour and Materials Payment filled and signed.

**5. WE AGREE:**

 5.1 that this *Tender* will be irrevocable and open for acceptance by the *Owner* for a period of 60 calendar days from the day following the *Tender Closing Time*, even if the tender of another *Tenderer* is accepted by the *Owner*. If within this period the *Owner* delivers a written notice (“*Letter of Intent*”) by which the *Owner* accepts our *Tender* we will:

 5.1.1 within 15 days of receipt of the written *Letter of Intent* deliver to the *Owner*:

 (a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, covering the performance of the *Work* including the *Contractor’s* obligations during the *Maintenance Period*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;

 (b) agreed upon Schedule of Values;

 (c) a finalized critical path *Construction Schedule*;

 (d) a detailed traffic management plan addressing vehicular and pedestrian movement, safety and access with specific detailing on methods, building and maintenance of temporary structures, signage and materials used to maintain the *Place of the Work* operations and access to staff and public users of the *Place of the Work*;

 (e) a detailed *Place of the Work* specific safety and health plan addressing as a high-level overview the health and safety issues including, but not limited to hazards, mitigation measures, site orientations, safety meetings, first aid attendant requirements, and training requirements and record keeping;

 (f) a WorkSafeBC “clearance letter” and Prime Contractor Designation letter indicating that the *Tenderer* is in WorkSafeBC compliance;

 (g) a copy of a valid City of Surrey or Intermunicipal Business License; and

 (h) a completed and signed Certificate of Insurance for the amounts required in the proposed *Contract Documents* as a minimum, naming the *Owner* as additional insured and generally in compliance with the *Owner’s* sample insurance certificate form available on the *Owner’s* website. <http://www.surrey.ca/files/DCT_Standard_Certificate_of_Insurance_2014.docx#sthash.2d0R1V6z.dpuf>

5.1.2 within fifteen (15) days of receipt of the written Letter of Intent, or such longer time as may be otherwise specified in the Letter of Intent, execute the *Contract Documents*; and,

5.1.3 within five (5) days of receipt of written *Notice to Proceed*, or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work.*

**6. WE AGREE:**

 6.1 that, if we a receive written *Letter of Intent* of this *Contract* and, contrary to paragraph 5 of this *Form of Tender*, we:

 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this *Form of Tender*; or

 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the Bid Security shall be forfeited to the *Owner*, in an amount equal to the lesser of:

 6.1.3 the face value of the Bid Security; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

**7. Our Business Address is as follows:**

 Business Phone: \_\_\_\_ \_\_\_\_\_\_ - \_\_\_\_\_\_\_\_

 Business Fax: \_\_\_\_ \_\_\_\_\_\_ - \_\_\_\_\_\_\_\_

 Business E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 GST Registration No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Name and Title of *Contact* (for communication related to this *Tender*): \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 This *Tender* is executed this \_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 2023.

 *Contractor*:

 (Full Legal Name of Corporation, Partnership or Individual)

 (Name and Title of Authorized Signatory)

 (Signature of Authorized Signatory)

**APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES**

For the purposes of comparison of *Tenders* and for subsequent payment, each *Tenderer* should breakdown its total *Tender Price* into the following lump sum items. We certify that the following is an accurate and balanced breakdown of our *Tender Price(s). Work* required, but not specifically mentioned, is included in the item with which it is most closely associated with. Refer to *Drawings* and *Specifications* for a description of the *Work* to be involved in each item.

All prices and quotations including the *Tender Prices* shall include all taxes, but should not include GST. GST should be shown separately.

**Reference No.:** 1220-020-2023-001

**Schedule of Quantities and Prices – Summary Sheet**

|  |  |
| --- | --- |
| **Description** | **Amount** |
| **Synthetic Turf Supply and Installation – Tom Binnie Park** |
| **Field 1**  | $ |
| **GST:** | $ |
| **TENDER PRICE, including GST:** | $ |

**Schedule of Quantities and Prices**

**A. Tom Binnie Park Field 1**

Synthetic Turf Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shock Pad Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Basic Work (lump sums):**

A.1 - Remove & Dispose of Existing Turf: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.2 - Remove & Recycle Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.3 – Civil - Inspect, Test and Regrade Base Aggregates: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.4 – Civil – Expose, Flush and Video Drain Lines: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.5 – Civil – Excavate & Dispose of Excess Gravel Offsite (for pad): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.6 - Supply and Install Shock Pad: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.7 - Supply and Install Synthetic Turf (includes Lines/Markings): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.8 - Supply and Install New CRI Infill/Reuse Exist Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.9 – Testing, as per Specifications: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Subtotal: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Tom Binnie Park Field 1** **(Incl. Warm-Up Area)** $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Out of Warranty Work**

Provide a base price for out-of-warranty turf repair work assuming an eight-hour repair (one day), travel, lodging, meals and any other costs that would be incurred by the City. Actual costs would be adjusted allowing for inflation (based on prevailing inflation rate in British Columbia), and the actual difference. The cost of any additional work not indicated below should be pro-rated across the other line items indicated. Where costs would be applicable, indicate ‘NC’.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0BItem | 1BUnit Rate | 2BUnit | 3BQuantity | 4BCost |
| 5BTurf Repair Crew | 6B$ | 7BPer crew hour | 8B8 hours | 9B$ |
| 10BSuperintendent | 11B$ | 12BPer hour | 13B8 hours | 14B$ |
| 15BTravel (all Crew Members & Superintendent) | 16BLUMP SUM | 17B$ |
| 18BLodging (Crew & Superintendent) | 19B$ | 20BPer night | 21B2 nights | 22B$ |
| 23BMeals – Crew/Superintendent | 24B$ | 25BPer day | 26B2 days | 27B$ |
| 28BMaterials – Turf | 29B$ | 30BPer sq. m. | 31B20 sq. m. | 32B$ |
| 33BMaterials – Infill, Glue | 34B$ | 35BPer sq. m. | 36B20 sq. m. | 37B$ |

**APPENDIX 2 – FORCE ACCOUNT LABOUR AND EQUIPMENT RATES**

**1. Contractor Labour Rates**

*Tenderers* shall utilize qualified skilled trades personnel on this *Project*.

*Tenderers* should provide force account labour rates in the table below for all labour categories that may be involved in the *Work*. The labour rates will remain firm for the term of the *Contract* and will be used by the *Owner* for the purpose of evaluating and valuing changes in the *Work* in the case of lump sum, or in case of force account valuation.

The labour rates provided below are all inclusive and include without limitation, wages, taxes and assessments and benefits payable in accordance with applicable laws, mobilization and demobilization, supervision, administration, small tool allowance including small tool rental, overhead and profit.

For the purposes of the above, small tools are considered to be any tool worth $2,000 or less in new value. All other tools should be listed as equipment in the table under item 2 below.

|  |  |  |
| --- | --- | --- |
| **LABOUR CATEGORY** | **STRAIGHT TIME/HR****(exclude GST)** | **OVERTIME RATE/HR****(excluded GST)** |
| 1. Project Manager | **$** | **$** |
| 2. Site Superintendent | **$** | **$** |
| 3. Foreman | **$** | **$** |
| 4. Turf Installation Superintendent | **$** | **$** |
| 5. Turf Installer | **$** | **$** |
| 6. Labourer | **$** | **$** |
| Others Not Listed Above (Specify): |
| X. |  |  |
| X.  | **$** | **$** |
| X.  | **$** | **$** |

**APPENDIX 2 – FORCE ACCOUNT LABOUR AND EQUIPMENT RATES (cont’d)**

2. Equipment Rates

*Tenderers* should provide equipment rates for all equipment that will be involved in the *Work*. The equipment rates will remain firm for the term of the *Contract* and will be used by the *Owner* for the purpose of evaluating and valuing changes in the *Work* in the case of lump sum, or in case of force account valuation. The rates provided below are all inclusive and include without limitation, operator, fuel, lubrication, service, maintenance, depreciation, mobilization and demobilization, overhead and profit.

It is acknowledged by the *Contractor* that if any portion of an hour is spent in performing the *Work* on a force account basis, a pro-rated portion of the force account rate shall only be charged.

|  |  |  |
| --- | --- | --- |
| **CONSTRUCTION EQUIPMENT CLASSIFICATION** | **HOURLY RATE****(exclude GST)** | **SPECIFY MAKE & MODEL** |
|  | **$** |  |
|  | **$** |  |
|  | **$** |  |
|  | **$** |  |
|  | **$** |  |
|  | **$** |  |
|  | **$** |  |

We confirm that the rates quoted above will remain in force until \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 2023.

(Additional pages may be attached to this page. Each such additional page is to be clearly marked “ITT (state tender name and tender number), FORM OF TENDER – PART B.)

**APPENDIX 3 - PRELIMINARY CONSTRUCTION SCHEDULE**

Indicate Schedule with bar chart with major item descriptions and time (attach separate schedule if desired)

**Tom Binnie Park Field 1:**

|  |  |
| --- | --- |
|  **CONSTRUCTION ACTIVITY** |  **Time from Notice to Proceed** **CONSTRUCTION SCHEDULE IN WEEKS** |
| (Insert the following milestone dates) |  **1** |  **2** |  **3** |  **4** |  **5** |  **6** |  **7** |  **8** |  **9** |  **10** |
| Mobilization |  |  |  |  |  |  |  |  |  |  |
| Turf Removal |  |  |  |  |  |  |  |  |  |  |
| Civil Work |  |  |  |  |  |  |  |  |  |  |
| Pad Installation |  |  |  |  |  |  |  |  |  |  |
| Turf Installation |  |  |  |  |  |  |  |  |  |  |
| Infill Installation |  |  |  |  |  |  |  |  |  |  |
| Testing and Commissioning |  |  |  |  |  |  |  |  |  |  |
| Final Clean-up of Site |  |  |  |  |  |  |  |  |  |  |
| *Substantial Performance* |  |  |  |  |  |  |  |  |  |  |

**APPENDIX 4 – TENDERER’S EXPERIENCE IN SIMILAR WORK**

**1. TENDERER’S EXPERIENCE**

This document is intended to provide information on the capacity, competence, and relevant experience of the Tenderer. Tenderer may supplement information with additional sheets if required. The following are mandatory requirements:

* A civil (sub)contractor with proven experience in construction of permeable aggregate bases for new synthetic turf fields, including completing the construction of a minimum of three synthetic field bases in the past 5 years;
* A synthetic turf system (turf, infill and shock pad) that is one of the pre-approved products listed in the ITT, or an alternative product that has been pre-approved prior to the Tender Closing date.
* Purpose built equipment for the removal of the synthetic turf and extraction of infill.

**Provide sufficient information to demonstrate compliance with the above. Attach additional information if required**.

|  |  |
| --- | --- |
| **Project #1** Title and Location: |  |
| Date Started: |  |
| Date Completed: |  |
| Project Value and Approx. Size: |  |
| Company Name: |  |
| Contact Person: |  |
| Business Telephone and Business E-mail: |  |
| Consultant Name and Contact: |  |

|  |  |
| --- | --- |
| **Project #2** Title and Location: |  |
| Date Started: |  |
| Date Completed: |  |
| Project Value and Approx. Size: |  |
| Company Name: |  |
| Contact Person: |  |
| Business Telephone and Business E-mail: |  |
| Consultant Name and Contact: |  |

|  |  |
| --- | --- |
| **Project #3** Title and Location: |  |
| Date Started: |  |
| Date Completed: |  |
| Project Value and Approx. Size: |  |
| Company Name: |  |
| Contact Person: |  |
| Business Telephone and Business E-mail: |  |
| Consultant Name and Contact: |  |

Note: Use the spaces provided and/or attach additional pages, if necessary.

**APPENDIX 4 – TENDERER’S EXPERIENCE IN SIMILAR WORK (Cont’d)**

**2. SUBCONTRACTOR’S EXPERIENCE**

The following is a mandatory requirement:

* A synthetic turf (sub)contractor that is a licensed by the synthetic turf manufacturer to install the synthetic turf system included in the Tender;

 Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Description of Contract** | **Name & Business Telephone Number** | **Contract Value** **($ Canadian)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

 Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Description of Contract** | **Name & Business Telephone Number** | **Contract Value** **($ Canadian)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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 Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Description of Contract** | **Name & Business Telephone Number** | **Contract Value** **($ Canadian)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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Note: Use the spaces provided and/or attach additional pages, if necessary.

**APPENDIX 5 – TENDERER’S SENIOR SUPERVISORY STAFF**

The Tenderer, having read and understood all documents relating to this Invitation To Tender confirm we possess the necessary qualifications as required by the specifications.

**1. TENDERER’S SENIOR SUPERVISORY STAFF EXPERIENCE**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Project Manager

Experience:

 Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 References: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Project Superintendent

 **Dates:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Safety Supervisor

 Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 References: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Qualifications and experience (resumes) should be provided in detail on separate sheets attached to this page. Back-up capability and personnel should be indicated of each category of staffing.

Note: Use the spaces provided and/or attach additional pages, if necessary.

**2. SUBCONTRACTOR’S SENIOR SUPERVISORY STAFF EXPERIENCE**

Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Project Superintendent

Experience:

 Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 References: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Project Superintendent

 Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 References: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Subcontractor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Appointment: Project Superintendent

 Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Responsibility: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 References: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Note: Use the spaces provided and/or attach additional pages, if necessary.

**.**

**APPENDIX 6 – SUBCONTRACTORS AND SUPPLIERS**

The *Tenderer* proposes to use the following *Subcontractors* and *Suppliers* for the divisions or sections of *Work* / supply listed below. [Note: It is not necessary for *Tenderer* to list all *Subcontractors* and *Suppliers* that the *Tenderer* proposes to use – only those for the divisions or sections of *Work* / supply as may be listed below.]

The named *Subcontractors* and *Suppliers* will not be changed without the written approval of the *Owner*.

**1. Sub-Trade Section**

|  |  |  |
| --- | --- | --- |
| **Description of work /supply** |  | **Name, address and business phone number of Subcontractor / Supplier** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**2. Equipment Section**

|  |  |  |
| --- | --- | --- |
| Equipment |  | Manufacturer and Model |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

The *Owner* reserves the right of approval for each of the *Subcontractors* and *Suppliers*. The *Contractor* will be given the opportunity to substitute an acceptable *Subcontractor* and *Supplier*, if necessary.

**Use the spaces provided and/or attach additional pages, if necessary**

APPENDIX 7 - ASSURANCE OF Permeable Aggregate Supply

We confirm that (our proposed gravel supply subcontractor) has agreed to supply the permeable aggregates for this tender and they have reviewed the contract-specific aggregate specifications including the gravel gradations and manufacturing requirements. Our signature confirms that we understand and agree to the following:

NAME O F SUPPLY COMPANY

1. The permeable aggregates will be manufactured as two separate products, one for base course and one for top course.

2. The permeable aggregates will be manufactured by blending a mix of clean clear crushed rock and processed (washed) concrete sand to produce a product that will completely conform to the specified gradation and will also have the required drainage characteristics.

3. The entire required amount of base course aggregate will be produced and set aside in a single stockpile and will be subject to approval by the Consultant after reviewing results of random sampling of the finished stockpile.

4. The entire required amount of top course aggregate will be produced and set aside in a single stockpile and will be subject to approval by the Consultant after reviewing results of random sampling of the finished stockpile.

5. Samples of both the permeable base and top course aggregate will be individually field tested for drainage characteristics prior to allowing delivery to the site and will receive final approval by the Consultant only after meeting the drainage requirements.

6. The aggregates cannot be delivered to the site until final approval from the Consultant.

Signature of Permeable Aggregate Supplier

APPENDIX 8 – TECHNICAL DATA SHEETS (PART 1)

Infill Material

Indicate the technical specifications and detailed description of the components comprising the infill material of the synthetic turf system. Attach a separate specification sheet(s) where the proposed infill is a material other than recycled crumb rubber or recycled crumb rubber/silica sand blend.

Total Depth of Infill Material inches (minimum)

Minimum Number of Infill Material Applications

Maximum Depth of Infill Material per Application inches

Type of Infill\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| Infill Material – Check one: |
|  |  | Crumb Rubber/Silica Sand Blend |
|  |  | \_\_\_% Sand by volume  |
|  |  | \_\_\_% Rubber by volume  |
|  |  | Other (Describe/attach specifications) |

For Crumb Rubber and Rubber/Sand Infills (Check as applicable):

|  |  |
| --- | --- |
|  | Ambient Ground Rubber |
|  | Cryogenic Ground Rubber |
|  | Recycled Truck Tires (check if applicable) |
|  |  |

Crumb Rubber Supplier (Company name/address) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Crumb Rubber Particle Size Distribution (complete or attach sieve analysis)

|  |  |  |  |
| --- | --- | --- | --- |
|  mm |  mm |  %  |  %  |
|  mm  |  mm  |  %  |  %  |
|  mm  |  mm |  %  |  %  |
|  mm  |  mm |  %  |  %  |

The sand gradation (wet sieve analysis):

|  |  |  |  |
| --- | --- | --- | --- |
| Sieve Size | % Passing (max – min) | Sieve Size | % Passing (max – min) |
| #8 |  | #40 |  |
| #16 |  | #50 |  |
| #20 |  | #100 |  |
| #30 |  |  |  |

Sand Description (Silica, ceramic-coated silica, etc.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_% minimum rounded, compaction resistant, washed and dried

APPENDIX 8 – TECHNICAL DATA SHEETS (PART 2)

Supplier to provide 3rd party support documentation outlining Technical Data results for ‘FIFA Quality Pro’ Performance Standards for ‘FIFA Quality Pro’ designation in accordance with FIFA Quality Programme for Football Turf October 2015 Edition of the Handbook Requirements Version 3.1 (16.03.2020), and Handbook of Test Methods – Version 3.1 (16.03.2020).

| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | **Results** |
| --- | --- | --- | --- | --- | --- |
| Preparation | T◦C | Cond. |
| Vertical ball rebound | FIFA 01&FIFA 15 | Pre-Cond. | 23◦ | Dry | 0.60 – 0.85m | 0.60 – 1.0m |  |
| Wet |  |
| Sim. Wear 3,000 cycles |  | 0.60 – 0.85m | NA |  |
| Sim. Wear 6,000 cyc. | NA | 0.60 – 1.0m  |  |
| Angle ball rebound | FIFA 02 | Pre-cond. | 23◦ | Dry | 45 - 60% | 45 - 70% |  |
| Wet | 45 - 80% |  |
| Reduced Ball Roll | FIFA 17&FIFA 15 | Pre-Cond. | 23 | Dry | 4 – 8m | 4 – 10 m |  |
| Sim. Wear 3,000 cycles | Dry | 4 – 8m | NA |  |
| Wet | 4 – 8m | NA |  |
| Sim. Wear 6,000 cycles | Dry | NA | 4 – 12 m |  |
| Wet | NA | 4 – 12 m |  |

**APPENDIX 8 – TECHNICAL DATA SHEETS (PaRT 3)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | Results |
| Preparation | T◦C | Cond. |
| Shock absorption | FIFA 04 a&FIFA 15 | Pre-cond. | 23◦ | Dry | 62 - 68% | 57 -68% |  |
| Wet |  |
| Sim. Wear 3,000 cycles | Dry | 62 - 68% | NA |  |
| Sim. Wear 6,000 cyc. | NA | 57 -68% |  |
| Pre-cond. | 50 | Dry | 62 - 68% | 57 -68% |  |
| FIFA04a1st impact | - | -5◦ | Frozen | 62 - 68% | 57 -68% |  |
| Vertical deformation | FIFA 05a&FIFA 15 | Pre-cond. | 23◦ | Dry | 4 – 10 mm | 4 – 11 mm |  |
| Pre-cond. | Wet |  |
| Sim. Wear 3,000 cycles | Dry | 4 – 10 mm | NA |  |
| Sim. Wear 6,000 cycles. | NA | 4 – 11 mm  |  |
| Pre-cond. | 50 | Dry | 4 – 10 mm | 4 – 11 mm |  |
| FIFA 05a 1st Impact |  | -5 | Frozen | 4 – 10 mm | 4 – 11 mm |  |

**APPENDIX 8 – TECHNICAL DATA SHEETS (PaRT 4)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | Results |
| Preparation | T◦C | Cond. |
| Rotational resistance | FIFA 06 or 6a&FIFA 15 | Pre-cond. | 23◦ | Dry | 32 – 43Nm | 27 – 48Nm |  |
| Wet |  |
| Sim. Wear 3,000 cycles | Dry | 32 – 43Nm | NA |  |
| Sim. Wear 6,000 cycles | NA | 27 – 48Nm |  |
| Skin/Surface Friction | FIFA 08 | Pre-cond. | 23 | Dry | 0.35 – 0.75 | 0.35 – 0.75 |  |
| Skin/Surface Friction | FIFA 08 | Sim. Wear 3,000 cycles | 23 | Dry | 0.35 – 0.75 |  |  |
| Skin/Surface Friction | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry |  | 0.35 – 0.75 |  |
| Skin Abrasion | FIFA 08 | Pre-cond. | 23 | Dry | +/- 30% | +/- 30% |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 3,000 cycles | 23 | Dry | +/- 30% |  |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry |  | +/- 30% |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry | 0.35 – 0.75 | 0.35 – 0.75 |  |
| Heat Determination | FIFA 14 | Pre-cond. | NA | Dry | For information | Optional Information |  |
| Infill Splash | FIFA 16 | Pre-cond. | 23 | Dry | Note <1.5% or ≥ 1.5% | NA |  |

**APPENDIX 8 – TECHNICAL DATA SHEETS (PaRT 5)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Property** | **Test Method** | **Requirement** | **Result** |
| Artificial Weathering FIFA 10 |
| Artificial Turf(all colours) | Colour Change | EN ISO 20105-A02 | > Grey Scale 3 |  |
| Pile Yarn (all colours) | Peak Breakage Force | EN 13864 | % Change from green unaged to be no more than 25% |  |
| Polymeric Infill | Colour Change | EN ISO 20105-A02 | > Grey Scale 3, no change in shape |  |
| Joint Strength: stitched seams | Joint Strength - unaged | EN 12228 Method 1 | 1000N/100 mm |  |
| Joint Strength – immersion in hot water  | 13744 & EN 12228 Method 1 |
| Joint Strength: bonded seams | Joint Strength - unaged | EN 12228 Method 2 | 75N/100 mm |  |
| Joint Strength – immersion in hot water  | 13744 & EN 12228 Method 2 |
| **Property** | **Test Method** | **Condition** | **FIFA Quality Pro Req’s** | **FIFA Quality Req’s** | **Result** |
| Tuft Withdrawal | ISO 4919 | Unaged | ≥ 40N | ≥ 40N |  |
| Tuft Withdrawal | EN 13744 & ISO 4919 | Immersion in hot water | ≥ 40N | ≥ 40N |  |
| Tensile Strength of shock pads and elayer (as applicable) | EN 12230 | Unaged | ≥ 0.15 MPa | ≥ 0.15 MPa |  |
| Water permeability | FIA 24 | Unaged | ≥ 180 mm/hr | ≥ 180 mm/hr |  |