Valley Crossing Elementary School Campus Greening Project: OUTDOOR CLASSROOM

Valley Crossing Elementary School - 9900 Park Crossing, Woodbury, MN 55125
June 16th, 2020

Subject: Valley Crossing Elementary School Campus Greening Project: OUTDOOR CLASSROOM

Dear Contractor:

The SWWD invites you to submit a quote for the Valley Crossing Elementary School Campus Greening Project. Quotes are due no later than 3 pm, Tuesday, July 7th, 2020. Details necessary to prepare your quote are included in this document and attached, including:

- Exhibit A: Special Provisions
- Exhibit B: Quote Template
- Exhibit C: Seed Mix
- Exhibit D: Planset
- If you have any questions or need additional information, please contact me at 651-714-3717 or tony.randazzo@woodburymn.gov

Sincerely,

Tony Randazzo
Watershed Restoration Specialist
South Washington Watershed District
INFORMATION FOR QUOTERS

QUOTE PROCEDURE

EACH CONTRACTOR HAS BEEN FURNISHED THE QUOTE FORM AND SPECIAL PROVISIONS. IN SUBMITTING A QUOTE, THE CONTRACTOR SHALL QUOTE ON THE SEPARATE QUOTE FORM.

TO BE CONSIDERED, A QUOTE MUST BE RECEIVED PRIOR TO 3:00 P.M. WEDNESDAY, JULY 7TH, 2020 VIA EMAIL (TONY.RANDAZZO@WOODBURYMN.GOV).

ANY QUESTIONS REGARDING THE QUOTING PROCEDURE SHALL BE DIRECTED TO TONY RANDAZZO, SWWD WATERSHED RESTORATION SPECIALIST, AT 651-714-3717 OR TONY.RANDAZZO@WOODBURYMN.GOV
EXHIBIT A:

SPECIAL PROVISIONS

A. BACKGROUND AND SCOPE OF WORK

The South Washington Watershed District (SWWD) has partnered with the South Washington County School District (District 833) to increase the diversity of vegetation and tree canopy cover on a 35 acre campus for the Valley Crossing Elementary School and athletic fields. Additionally, the program seeks to expand environmental learning opportunities on campus. The campus is located within the Central Corridor Greenway and fits within the framework of the SWWD Greenway Plan. This fulfills City of Woodbury permit requirements for District 833 building and pavement improvements.

The goal of this work is to provide the following:

- An outdoor learning space within newly converted turf to prairie location
- A learning space able to accommodate:
  - Up to 30 elementary school students for classroom teaching
  - ADA accessible surface to and within the outdoor classroom
- Site cleanup (including access routes) of disturbed areas following construction

The contractor is expected to provide site preparation, excavation, removal of excess material, construction of classroom elements and site restoration at Valley Crossing Elementary School - 9900 Park Crossing, Woodbury, MN 55125 in accordance with plans prepared by the South Washington Watershed District and supplied in Exhibit C.

This work will include, but is not limited to:

2. Installation of Outdoor Classroom according to specifications and approved contractor project narrative.
3. Restoration of disturbed areas to include seeding with BWSR Dry Prairie Southeast Seed Mix or equivalent approved in advance by SWWD Watershed Restoration Specialist.

SCOPE OF WORK

Site Existing Conditions

The project is located near the southeast corner of Valley Crossing Elementary School along the edge of a berm and above a sloping hillside overlooking Park Crossing, west of Woodbury Drive.

Proposed Project Narrative:
A narrative is required as part of the quote submittal outlining outdoor classroom construction methods, potential timing of activities and proposed materials (particularly exposed stone materials for stage and benches and exposed gravel type within classroom. Narrative should describe likely methods and potential timing of activities. Narrative should describe how the contractor will limit construction effects and provide restoration of disturbed areas. The narrative allows the contractor to determine final details intended to meet the intent of the project while offering leeway in choice of materials to help determine cost.

*Relevant Experience:*

Contractors are asked to provide a simple narrative describing relevant project experience (e.g. at other school/educational facilities and with the creation of outdoor living/classroom spaces at similar or larger scales).

*THE WORK REQUIRED UNDER THIS SECTION OF THE SPECIFICATION INCLUDES FURNISHING OF ALL LABOR, MATERIALS, PERMITS, EQUIPMENT AND SERVICES NECESSARY FOR, OR REASONABLY INCIDENTAL TO, THE TASKS OF VEGETATION MANAGEMENT AS SPECIFIED IN THE SUPPLIED PLANSET. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS, OR AS STATED IN THIS SPECIFICATION.*

**B. GENERAL**

- Contractor will notify SWWD’s contact person when they plan to be on-site and will discuss with SWWD any intended divergence from the tasks outlined.
- For all tasks, follow best management practices to minimize negative impacts including but not limited to: soil compaction, rutting, and other soil disturbances.

Specific project tasks associated with this RFP are shown in plan in *Exhibit D.*

**C. WORK AND COMPLETION**

The Contractor shall have all required paperwork done, i.e., contract signed, certificate of insurance provided, all federal, state and local permits, etc., and commence work per timeline after preliminary notification of award from the South Washington Watershed District.

The Contractor shall complete site prep, installation, large stone and concrete work on or before *September 1, 2020* and all other tasks including final cleanup and seeding of the Valley Crossing Campus Greening Project Outdoor Classroom on or before *November 1st, 2020* except in instances where further site prep or conflicts with other construction activities on site arise and are agreed upon by both parties.

The completion date will be strictly enforced, with the exception that reasonable accommodation shall be made for inclement weather conditions or delays due to work by others.
Failure to complete construction to specifications within said completion date—except as noted above—will result in a penalty of $250 per day.

The anticipated project timeline for this project is as follows:

- **Quotes due to SWWD** - July 7, 2020 (3:00 p.m.)
- **Quote Selection** - July 14, 2020
- **Begin Construction** - When Contract requirements are fully met
- **Large Stone and Concrete Completion** - September 1st, 2020 except in instances where further site prep or conflicts with other construction activities on site arise and are agreed upon by both parties.
- **Project Completion** - November 1st, 2020

### D. CONTRACT DRAWINGS

All **Outdoor Classroom Installation** work must be completed in accordance with the plans and specifications prepared by the South Washington Watershed District provided in Exhibit D and/or approved contractor narrative. Contractor must submit proposed changes to SWWD staff for approval.

### E. INSURANCE

The Contractor must provide the following insurance:

1. General Liability Limits: $1,500,000
2. Automobile Liability Limits: $1,500,000
3. Umbrella-Excess Liability: $2,000,000
4. Workers Compensation: Statutory

### F. PREMISE DETAILS

### PAY ITEM NOTES

<table>
<thead>
<tr>
<th>PAY ITEM DESCRIPTION</th>
<th>INFORMATION/DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation of Outdoor Classroom according to Specifications as amended by contractor narrative</td>
<td>Plan details located in Exhibit D – provide narrative outlining site prep and seeding approach and tasks</td>
</tr>
</tbody>
</table>
G. EXAMINATION OF SITE WORK

It is required and expected that each Contractor, before submitting a bid for work required under this specification, shall visit the site, make a thorough examination of conditions, and take all necessary measurements to be thoroughly familiar with all conditions and all of the limitations pertaining to the work herein contemplated.

No extras will be allowed because of the Contractor's misunderstanding as to the amount of work involved or lack of knowledge of any of the conditions pertaining to the work based on neglect or failure to visit or make examination of the site.

It is also expected that in the event that any of this specification is not clear, or in the event there are any discrepancies, these will be brought to the attention of the SWWD Watershed Restoration Specialist, Tony Randazzo and a decision will be rendered as soon as possible.

H. BID

The bid price shall include all labor, materials, permits, and services necessary for, or reasonably incidental to, the complete work as stated in this specification. All quotes shall be submitted using the Quote tab provided in Exhibit B. Quotes shall be submitted, electronically, to the South Washington Watershed District, no later than **3:00 pm Tuesday, July 7th, 2020** and include the following:

1. Completed Quote template (Exhibit B) – including
2. Narratives for construction of outdoor classroom, including proposed materials and site restoration
3. A narrative describing related project experience (e.g. at other school/educational facilities and outdoor/learning spaces),
4. Names of any subcontractors to be utilized on the project.

Official Quote Selection will occur by SWWD Board of Directors on **July 14th, 2020**.

The South Washington Watershed District reserves the right to reject any or all quotes.

Without limiting the generality of the foregoing, any quote which is incomplete, obscure or irregular may be rejected.

I. STANDARDS AND SPECIAL PROVISIONS

Certificate of Liability Insurance – including South Washington County Schools as an additional insured, is to be provided to the SWWD within 5 working days of contract award and prior to any work performed on site.
This work is on South Washington County School District property. Permits may be required for project – contractor to seek and pay for pertinent local, state and federal permits and local codes and ordinances affecting this work. If local codes are more restrictive than these specifications, then the local codes take precedence. **Contractor will work closely with the SWWD to schedule and conduct project activities.**

**SWWD Contact:** Tony Randazzo, Watershed Restoration Specialist, O: 651.714.3717 email: tony.randazzo@woodburymn.gov

Project tasks and sequencing are provided in Exhibit C.

---

**J. NOTIFICATION PRIOR TO START OF WORK**

Within one calendar week prior to the start of the first day of work, the Contractor shall notify the Watershed Restoration Specialist, Tony Randazzo, (651) 714-3717 or tony.randazzo@woodburymn.gov of the work schedule.

---

**K. PUBLIC AND PRIVATE UTILITIES**

The Contractor shall take care of all public and private utilities encountered during the progress of the work.

---

**L. PROTECTION OF PRIVATE AND PUBLIC PROPERTY**

The Contractor shall use extreme care in operating all equipment around or near trees within the construction areas. Trees are not to be damaged or destroyed.

The Contractor shall repair all damage to private and public property, including roadway surfaces, curbs, utilities, stormsewer structures, sod, and existing landscaping.

---

**M. METHOD OF PAYMENT**

The Contractor may submit monthly invoices; terms of payment will be made by SWWD net 30 days.

The work shall be considered substantially completed when all work has been completed, except minor corrections and adjustments.

No payment will be made for materials delivered to the site and not incorporated in the work.
N. EXTENSION OF TIME

No extension of time will be given for the completion of the work except for delays authorized by the Watershed Restoration Specialist. Extension of time will only be granted upon a written request from the Contractor to the Watershed Restoration Specialist. The Watershed Restoration Specialist shall designate the length of the extension, if, in his opinion, such an extension is required. The Watershed Restoration Specialist will give the extension, in writing, to the Contractor.

O. SAFETY

The Contractor shall use every precaution to protect the public from personal harm. The Contractor must assign a designated flagger for foot traffic control/safety in instances where work intersects the trail networks on site.

P. MISCELLANEOUS

None

- END OF SPECIAL PROVISIONS -
Valley Crossing Quote for Valley Crossing Campus Greening Outdoor Classroom

<table>
<thead>
<tr>
<th>Turf to Savanna Restoration</th>
<th>Qty</th>
<th>Unit</th>
<th>Price</th>
<th>Total Cost</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Preparation, Outdoor Classroom</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installation, Site Cleanup and Site Restoration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL COST (PROJECT)
## Dry Prairie Southeast

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Rate (kg/ha)</th>
<th>Rate (lb/ac)</th>
<th>% of Mix (% by wt)</th>
<th>Seeds/ sq ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>side-oats grama</td>
<td>Bouteloua curtipendula</td>
<td>1.27</td>
<td>1.13</td>
<td>10.23%</td>
<td>2.48</td>
</tr>
<tr>
<td>blue grama</td>
<td>Bouteloua gracilis</td>
<td>0.76</td>
<td>0.68</td>
<td>8.19%</td>
<td>10.00</td>
</tr>
<tr>
<td>kalm’s brome</td>
<td>Bromus kalmii</td>
<td>0.35</td>
<td>0.31</td>
<td>2.75%</td>
<td>0.90</td>
</tr>
<tr>
<td>nodding wild rye</td>
<td>Elymus canadensis</td>
<td>1.68</td>
<td>1.50</td>
<td>13.81%</td>
<td>2.86</td>
</tr>
<tr>
<td>slender wheatgrass</td>
<td>Elymus trachycaulus</td>
<td>1.32</td>
<td>1.18</td>
<td>10.76%</td>
<td>3.00</td>
</tr>
<tr>
<td>junegrass</td>
<td>Koeleria macrantha</td>
<td>0.46</td>
<td>0.41</td>
<td>3.71%</td>
<td>30.00</td>
</tr>
<tr>
<td>little bluestem</td>
<td>Schizachyrium scoparium</td>
<td>1.69</td>
<td>1.51</td>
<td>13.70%</td>
<td>8.30</td>
</tr>
<tr>
<td>sand dropseed</td>
<td>Sporobolus cryptandrus</td>
<td>0.25</td>
<td>0.22</td>
<td>1.98%</td>
<td>16.00</td>
</tr>
<tr>
<td>prairie dropseed</td>
<td>Sporobolus heterolepis</td>
<td>0.29</td>
<td>0.26</td>
<td>2.32%</td>
<td>1.50</td>
</tr>
<tr>
<td><strong>Total Grasses</strong></td>
<td></td>
<td><strong>8.07</strong></td>
<td><strong>7.20</strong></td>
<td><strong>65.28%</strong></td>
<td><strong>75.04</strong></td>
</tr>
<tr>
<td>butterfly milkweed</td>
<td>Asclepias tuberosa</td>
<td>0.07</td>
<td>0.06</td>
<td>0.52%</td>
<td>0.09</td>
</tr>
<tr>
<td>whorled milkweed</td>
<td>Asclepias verticillata</td>
<td>0.01</td>
<td>0.01</td>
<td>0.11%</td>
<td>0.05</td>
</tr>
<tr>
<td>bird’s foot coreopsis</td>
<td>Coreopsis palmata</td>
<td>0.06</td>
<td>0.05</td>
<td>0.50%</td>
<td>0.20</td>
</tr>
<tr>
<td>white prairie clover</td>
<td>Dalea candida</td>
<td>0.10</td>
<td>0.09</td>
<td>0.76%</td>
<td>0.60</td>
</tr>
<tr>
<td>purple prairie clover</td>
<td>Dalea purpurea</td>
<td>0.17</td>
<td>0.15</td>
<td>1.32%</td>
<td>0.80</td>
</tr>
<tr>
<td>ox-eye</td>
<td>Helianthus helianthoides</td>
<td>0.07</td>
<td>0.06</td>
<td>0.51%</td>
<td>0.13</td>
</tr>
<tr>
<td>round-headed bush clover</td>
<td>Lespedeza capitata</td>
<td>0.03</td>
<td>0.03</td>
<td>0.31%</td>
<td>0.10</td>
</tr>
<tr>
<td>rough blazing star</td>
<td>Liatris aspera</td>
<td>0.02</td>
<td>0.02</td>
<td>0.17%</td>
<td>0.11</td>
</tr>
<tr>
<td>dotted blazing star</td>
<td>Liatris punctata</td>
<td>0.02</td>
<td>0.02</td>
<td>0.23%</td>
<td>0.06</td>
</tr>
<tr>
<td>wild bergamot</td>
<td>Monarda fistulosa</td>
<td>0.03</td>
<td>0.03</td>
<td>0.30%</td>
<td>0.85</td>
</tr>
<tr>
<td>horsemint</td>
<td>Monarda punctata</td>
<td>0.02</td>
<td>0.02</td>
<td>0.22%</td>
<td>0.80</td>
</tr>
<tr>
<td>stiff goldenrod</td>
<td>Oligoneuron rigidum</td>
<td>0.07</td>
<td>0.06</td>
<td>0.59%</td>
<td>0.98</td>
</tr>
<tr>
<td>large-flowered beard tongue</td>
<td>Penstemon grandiflorus</td>
<td>0.04</td>
<td>0.04</td>
<td>0.35%</td>
<td>0.20</td>
</tr>
<tr>
<td>black-eyed susan</td>
<td>Rudbeckia hirta</td>
<td>0.10</td>
<td>0.09</td>
<td>0.86%</td>
<td>3.20</td>
</tr>
<tr>
<td>gray goldenrod</td>
<td>Solidago nemoralis</td>
<td>0.01</td>
<td>0.01</td>
<td>0.14%</td>
<td>1.65</td>
</tr>
<tr>
<td>skyblue aster</td>
<td>Symphyotrichum oerstediense</td>
<td>0.01</td>
<td>0.01</td>
<td>0.06%</td>
<td>0.20</td>
</tr>
<tr>
<td>silky aster</td>
<td>Symphyotrichum sericeum</td>
<td>0.02</td>
<td>0.02</td>
<td>0.19%</td>
<td>0.20</td>
</tr>
<tr>
<td>bracted spiderwort</td>
<td>Tradescantia bracteata</td>
<td>0.01</td>
<td>0.01</td>
<td>0.12%</td>
<td>0.05</td>
</tr>
<tr>
<td>heart-leaved alexanders</td>
<td>Zizia aptera</td>
<td>0.02</td>
<td>0.02</td>
<td>0.21%</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>Total Forbs</strong></td>
<td></td>
<td><strong>0.90</strong></td>
<td><strong>0.80</strong></td>
<td><strong>7.49%</strong></td>
<td><strong>10.37</strong></td>
</tr>
<tr>
<td>Oats</td>
<td>Avena sativa</td>
<td>3.36</td>
<td>3.00</td>
<td>27.23%</td>
<td>1.33</td>
</tr>
<tr>
<td><strong>Total Cover Crop</strong></td>
<td></td>
<td><strong>3.36</strong></td>
<td><strong>3.00</strong></td>
<td><strong>27.23%</strong></td>
<td><strong>1.33</strong></td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td><strong>12.33</strong></td>
<td><strong>11.00</strong></td>
<td><strong>100.00%</strong></td>
<td><strong>86.75</strong></td>
</tr>
</tbody>
</table>

**Purpose:** Regional dry prairie reconstruction for wetland mitigation, ecological restoration, or conservation program plantings.

**Planting Area:** Eastern Broadleaf Forest Province excluding Hardwood Hills subsection. Mn/DOT Districts Metro & 8.
CONSTRUCTION PLANS
FOR
VALLEY CROSSING ELEMENTARY SCHOOL CAMPUS GREENING

SOUTHWASHINGTON WATERSHED DISTRICT
WOODBURY, MINNESOTA
JANUARY, 2020

PROJECT SCOPE:
PROJECT ACTIVITIES WILL OCCUR WITHIN THE 36 ACRE ELEMENTARY SCHOOL CAMPUS OWNED BY THE SOUTH WASHINGTON SCHOOL DISTRICT #833.

PROJECT INCLUDES:
ONE OUTDOOR CLASSROOM WILL BE INSTALLED IN 2020

PROJECT PARTNERS:
SOUTH WASHINGTON WATERSHED DISTRICT (SWWD)
SOUTH WASHINGTON SCHOOL DISTRICT #833

PROJECT DESIGNER/CONTACT:
TONY RANDAZZO, SOUTH WASHINGTON WATERSHED DISTRICT

DRAWING INDEX

<table>
<thead>
<tr>
<th>SHEET NUMBER</th>
<th>SHEET TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHEET 1</td>
<td>TITLE SHEET</td>
</tr>
<tr>
<td>SHEET 2</td>
<td>OUTDOOR CLASSROOM SITE PLAN</td>
</tr>
<tr>
<td>SHEET 3</td>
<td>OUTDOOR CLASSROOM DETAIL (SECTIONS)</td>
</tr>
</tbody>
</table>
1. **Outdoor Classroom Overview**

   **Scale:** 1" = 10' 0"

2. **[Drawing Title]**

   **Scale:** 3/16" = 1'-0"

   - **Flagstone Benches**
     - approx. 24" X 36" top
     - 16"-17" seat height

   - **Gravel Base**

   - **Flagstone Stage**

   - **New Concrete Sidewalk (ADA accessible)**

   - **Flagstone or Concrete Steps**
     - (6" height)

   - **Wheelchair Space**

   - **Gravel**

   - **Woodbury, MN**

   **OUTDOOR CLASSROOM PLAN**

   **PROJECT TEAM DATA**

   - **Anderson - Johnson Landscape Architecture**
     - **Site Planning**
     - **Civil Engineering**

   - **Fax (763) 544-0531**
     - **Phone (763) 544-7129**

3. **BENCHMARKS (FIELD VERIFY BEFORE USING)**

   - **C2.1**

4. **ADDENDUM #104/23/19**

5. **PR #106/21/19**

6. **Legend**

   - **Existing Sidewalk**
   - **New Sidewalk**
   - **Sedimentary Stone**
     - Seating Walls with rough, but flat, seating surface
   - **Mowed Prairie Path**
   - **Wheelchair Pad: See Notes (Sht-3)**
   - **Gravel Pad**
   - **Flagstone Stage**
   - **Concrete Edging, or Stone Edging that matches bench stone.**
   - **Prairie Seeding**
   - **Existing Spruce**
   - **New Tree Planting**
   - **Existing Turf Strip**
   - **Slope Grade, into existing Berm to provide positive drainage away from outdoor classroom**
   - **Slope Grade, east of existing sidewalk**
   - **Existing Sidewalk**

7. **Sample image of bench style.**

8. **Additional Notes:**

   - 1. **ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.**
   - 2. **STAKING / LAYOUT.**
   - 3. **THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, CITY.**
   - 4. **CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.**
   - 5. **INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.**
   - 6. **ASSOCIATES, RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.**
   - 7. **REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.**
   - 8. **NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.**
   - 9. **LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL BEGINNING CONSTRUCTION.**
   - 10. **WHERE NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.**
   - 11. **ANY MANHOLE, CATCH BASIN, STORM SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY**
   - 12. **NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS OTHERWISE NOTED.**
   - 13. **PROPOSED ELEVATIONS SHOWN TYPICALLY AS 30.1 OR 30 SHALL BE UNDERSTOOD TO MEAN 929.1 OR 930.1 OR 930.**
   - 14. **FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.**
   - 15. **ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.**
   - 16. **THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, CITY.**
   - 17. **CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.**
   - 18. **INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.**
   - 19. **ASSOCIATES, RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.**
   - 20. **REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.**
   - 21. **NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.**
   - 22. **ANY MANHOLE, CATCH BASIN, STORM SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY**
   - 23. **NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS OTHERWISE NOTED.**
   - 24. **PROPOSED ELEVATIONS SHOWN TYPICALLY AS 30.1 OR 30 SHALL BE UNDERSTOOD TO MEAN 929.1 OR 930.1 OR 930.**
   - 25. **FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.**

9. **Sample image of bench style.**
Outdoor Classroom Plan

Section A: Concrete Sidewalk

Not to Scale

Flagstone Benches
approx. 24" x 36" top
15'-17" seat height
embedded min. 2"
into grade at front of seat (typ.)

3/4" (#4) or Smaller
Clean Trap Rock
Compacted

Upper Step With 12"
Tread, 6" Height,
Placed on Top of
Lower Step

Lower Step With 12"
Tread, 6" Height Above
Ground, Set Minimum 2"
Into Grade

Prairie Planting

Minimum 12" Wide Shoulder Each Side

6" TYPE 3A32A CONCRETE
4" AGGREGATE BASE, CLASS 5, 100% CRUSHED
EXCAVATION AND ADDITIONAL AGGREGATE BASE, CLASS 5, AS DIRECTED BY THE ENGINEER

1.5% - 2% slope

Minimum Project Requirements:

Total Bench Length (Combined): 60' Linear Feet
(approx. surface area 120')

Approximate Bench Surface Each: 24" x 36" (May vary between 17" - 30" x 30" - 60")

Stage Slab Area: Minimum width 48" with a minimum surface area of 20 sq. ft.

ADA Accessibility:
* New Sidewalk not to exceed 2.0% Slope
* Provide a 60" Circular Wheelchair Turn Area outside of main path
* Provide accessibility from concrete surface to one bench (minimum)

Following Installation, all disturbed soils are to be loosened to a depth of 6" and seeded with BWSR Dry Prairie Southeast seed mix or approved equivalent.