

AGREEMENT BETWEEN THE CITY OF RAPID CITY  
AND HEARTLAND OUTDOORS, INC., D/B/A TRAILARTS  
FOR PROFESSIONAL TRAIL DESIGN/BUILD SERVICES OF  
SKYLINE WILDERNESS PARK NATURAL SURFACE TRAIL SYSTEM

This Agreement is entered into this \_\_\_\_ day of \_\_\_\_\_, 2014, by and between the City of Rapid City, a municipal corporation organized under the laws of the State of South Dakota, of 515 West Blvd., Rapid City, SD 57701 (“City”), and Heartland Outdoors, Inc., d/b/a TrailArts, with its principal place of business located at P.O. Box 3878, Rapid City, SD 57709 (“Contractor”). The parties agree to the following terms:

1. Statement of Work. Contractor agrees to perform the work described in the attached Exhibit A: Project Scope & Tasks (hereinafter “Work”), attached hereto and incorporated herein by this reference, generally described as design, constructing and remediating trails and/or other features by furnishing the labor, materials, equipment, and/or services necessary to perform the Work.

All changes in the Work must be agreed to by the parties in a written memo, signed by both Contractor and City.

2. Contract Price for Work. Contractor agrees to perform the work described above for an amount not to exceed Three Hundred Thousand Dollars (\$300,000.00). Contractor will only be paid for work actually performed and accepted by City.

If Contractor believes additional work is necessary which would cause the total cost to exceed the above amount (\$300,000.00), it agrees to seek written approval from City prior to performing the Work. Schedule of pay rates: The City will pay the contractor for services rendered or authorized extra work according to the consultant/contractor’s hourly rate schedule and Services Fee Structure. (See Exhibit B).

3. Payment. Contractor agrees to bill City by invoice for work completed under this Agreement. City shall remit payment to Contractor within forty-five (45) days of each invoice for Work that has been accepted by City.

4. Contractor’s Obligations. Contractor shall perform, supervise and direct the Work, and shall have control over the construction means, sequences and procedures.

5. City Obligations and Representations. A reasonable time before the Work is due to commence, City shall provide the Contractor with a description of the property where the trails and/or other features of the Work will be located (“Site”). This description of the Site shall accurately depict and describe all relevant boundaries and property lines, easements, and access, as may be needed to construct the trails, trailheads and other features specified in the Work. This description may include a survey if Contractor requests a survey.

City is responsible to obtain and pay for all consents, easements, variances, waivers, legal permissions, charges, and other legal rights necessary to perform the Work.

City agrees that the Parks and Recreation staff overseeing the Work will inform Contractor of any constraints upon the construction of trails, trailheads and other features of the project and other Work of which these Parks and Recreation staff are aware, including the following:

- a. Physical or legal restrictions on access to or travel across any part of the Site;
- b. Neighborhood or landowner disputes or restrictions concerning location of trails and/or other features and/or ownership, easements, or access across the Site;
- c. Allowable construction equipment and any restrictions on use of heavy equipment, tools, mechanized equipment, etc.;
- d. Critical wildlife habitat, and threatened or endangered species issues;
- e. History of landslides, major erosion, flooding, and unstable soils;
- f. Utility locations and other natural or man-made hazards; and
- g. Legal covenants and other regulatory restrictions that may restrict the design or implementation of the Project.

City's obligation as described above only extends to those items of which the designated Parks and Recreation employees are aware. City does not have any affirmative obligation to investigate or discover constraints listed above, nor does the Parks and Recreation Department have any duty to investigate or discover constraints of which other City departments may be aware.

City is responsible to approve and accept design, layout, configuration, and signage of all trails including grade, width, surface, and materials, as well as any additions and closures of trails, bridges, structures and other trail features described in the Work. Trail work shall comply with all applicable laws, regulations, covenants, licenses, permits and approvals. City agrees to review and respond to all Work within a reasonable time and at its expense.

6. Authority. City represents that it has the right, capacity and authorization necessary to enter into this Agreement and is not subject to a conflict with any law or agreement that would prevent or delay any or all of the Work. This Agreement is made and entered into by the City pursuant to the authority granted by SDCL 5-18A and 5-18B. City used Procedures for Design-Build Procurement of Public Improvement Project to comply with SDCL Chapter 1-15B.

7. Insurance. Contactor shall obtain and maintain at its expense the following minimum limits of occurrence-based insurance coverage for the duration of this Agreement.

Workers' compensation insurance with statutory limits required by South Dakota law. Coverage B-Employer's Liability coverage of not less than \$500,000 each accident, \$500,000 disease-policy limit, and \$500,000 disease each employee.

Commercial general liability insurance providing occurrence form contractual, personal injury, bodily injury and property damage liability coverage with limits of not less than \$1,000,000 per occurrence, \$2,000,000 general aggregate, and \$2,000,000 aggregate products and completed operations. If the occurrence form is not available, claims-made coverage shall be maintained for three years after completion of the terms of this agreement. The policy shall name the City and its representatives as an additional insured.

Automobile liability insurance covering all owned, non-owned, and hired automobiles, trucks, and trailers. The coverage shall be at least as broad as that found in the standard comprehensive automobile liability policy with limits of not less than \$1,000,000 combined single limit each occurrence. The required limit may include excess liability (umbrella) coverage.

Professional liability insurance providing claims-made coverage for claims arising from the negligent acts, errors or omissions of the Contractor or their sub-consultants and sub-contractors, in the amount of not less than \$1,000,000 each occurrence and not less than \$1,000,000 annual aggregate. Coverage shall be maintained for at least three years after final completion of services.

Such insurance policies shall name the City as an additional insured with respect to all activities arising out of the performance of the work and/or services under this Agreement. Acceptable Certificates of Insurance and Endorsements confirming the above coverage shall be filed with the City before commencing any work and/or services. Such Certificates shall afford City thirty (30) days written notice of cancellation or of a material change in coverage. City's failure to obtain from the Contractor a Certificate of Insurance conforming to the foregoing requirements shall not be deemed a waiver of any of the foregoing requirements. This paragraph shall in no way limit the provisions of the indemnity section.

8. Indemnity. Contractor agrees to indemnify, defend and hold City harmless from and against any and all liability, losses, claims, damages, costs, and expenses including, but not limited to, costs of defense and reasonable attorney's fees, which City may hereafter suffer itself or pay to another party by reason of any claim, action, or right of action, at law or in equity, arising out of willful misconduct, error, omission or negligent act of Contractor and resulting in injury (including death) to any person or damage to any property to the extent such are caused by or are alleged to be caused by Contractor or its employees, any subcontractor or its employees, or any person, firm, partnership, or corporation employed or engaged by Contractor.

Contractor shall not, by this provision, be required to indemnify the City for loss or damages, or costs incurred in defense, which arise out of the negligence of City or which are not the result of the conduct of Contractor or its employees, subcontractors or its employees, or any person, firm, partnership or corporation employed or engaged by Contractor.

9. Warranties. Contractor agrees to perform the Work in a professional and workmanlike manner in accordance with the requirements of the Statement of Work as discussed in section 1. Contractor provides a two-year warranty. All work not conforming to the requirements of the Work within this warranty period may be considered defective and shall be repaired or replaced by the Contractor at City's request within the warranty period.

Contractor is not responsible for damage to trails, other trail features, the Site, or surrounding property due to abuse by users, normal usage and wear and tear; errors or defects in City's design plans, specifications and drawings; adverse weather, vegetation growth, fire, landslides, and similar causes. In any dispute arising out of this Agreement, the Contractor will not be responsible for any consequential or indirect damages, lost profits or income, or punitive damages.

10. Bond Requirements. The Contractor is required to give a Surety Bond to the City, pursuant to SDCL 5-21-1, executed by a reliable and accredited Surety authorized to do business in the State of South Dakota, in a form approved by the City Attorney, signed by an "Attorney in Fact" of residence in South Dakota, and in an amount equal to the construction costs as a guarantee of the full performance and completion of the contract and payment of all labor and all material bills. This performance bond shall be provided prior to Contractor commencing any construction services, including but not limited to those discussed in Task 2 of Exhibit A.

The amount of the bond shall be agreed upon by both parties. City reserves the right to review the cost of the construction services as submitted by Contractor and to object to Contractor's calculations of construction costs. If the parties are unable to agree upon the amount of the construction costs and/or bond, City may terminate the Agreement by providing written notice to Contractor of its intent to terminate and its requirement as to the bond amount. Contractor shall have ten calendar days after receipt of such notice in which to provide the bond in the amount required by City. If Contractor fails to provide an acceptable bond in the amount required by City, City may terminate the Agreement.

11. Time for Completion. The Contractor shall complete services on or before July December 31, 2016, based on an award date of June 16, 2014. In the event the Contractor is delayed in completion of any part of the Work by fire, adverse weather, unusual delay in equipment of materials availability, changes in the scope of Work, an act or omission by City, or other causes beyond the Contractor's control, the completion time shall be extended a reasonable time.

12. Termination of Agreement. Either party may terminate this Agreement on the grounds that the other party has failed in performance or has otherwise breached this Agreement. Prior to such a termination, the party wishing to terminate must provide written notice to the other party of its intent to terminate, including the reasons for termination. The party in receipt of the notice of intent to terminate shall have ten calendar days after receipt of such notice in which to cure the alleged failure or breach. If that party does not cure the failure or breach, the non-breaching party may terminate the Agreement.

The Contractor or City may terminate this Agreement at any time upon forty-five calendar days advance written notice to the other.

13. Relationship between the Parties. Heartland Outdoors, Inc., d/b/a TrailArts, is an independent contractor of the City. This Agreement does not create an employment relationship between the City of Rapid City and TrailArts, or its agents or employees. Nothing contained in this Agreement is intended to create a partnership or joint venture between TrailArts and the City of Rapid City. No agent of TrailArts shall be the agent of the City, and TrailArts covenants that it will not take any action in the name of, or by holding itself out as the agent of, the City of Rapid City.

14. Waivers. The failure by one party to require performance of any provision herein shall not affect that party's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

15. Amendments. This Agreement may only be amended by a written document duly executed by all parties.

16. Entire Agreement. The Request of Proposals, Performance Bonds, Insurance, together with this Agreement and the attached Exhibits A & B form the Contract and all are as fully a part of the Contract as if hereto attached or herein repeated. These documents constitute the entire agreement of the parties. No other documents or statements are incorporated herein.

17. Counterparts. This Agreement may be executed in counterparts; each such counterpart shall be deemed an original and when taken together with other signed counterparts, shall constitute one Agreement.

18. Severability. If any provision of this Agreement is held unenforceable by a court of competent jurisdiction, such holding shall not affect the remaining provisions of this Agreement, which shall remain in full force and effect.

19. Headings. The headings and numbering of the different paragraphs of this Agreement are inserted for convenience only and are not to control or affect the meaning, construction or effect of each provision.

20. Construction and Venue. This Agreement shall be interpreted under the laws of the State of South Dakota. Any litigation under this Agreement shall be resolved in the circuit court of Pennington County, State of South Dakota.

CITY OF RAPID CITY:

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
Finance Officer

(seal)

HEARTLAND OUTDOORS INC.,  
D/B/A TRAILARTS:

\_\_\_\_\_  
By: David B. Dessel  
Its: President

STATE OF \_\_\_\_\_ ){PRIVATE }  
  )ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned officer,  
personally appeared \_\_\_\_\_ who acknowledged himself to be the  
\_\_\_\_\_ of Heartland Outdoors, Inc., d/b/a Trail Arts and as such, being authorized  
to do so, executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(seal)

\_\_\_\_\_  
Notary Public, State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

## **EXHIBIT A: PROJECT SCOPE & TASKS**

### **Skyline Wilderness Park Natural Surface Trail System Project No. PR-13-6109 / CIP No. 51002**

#### **PROJECT SCOPE:**

The City of Rapid City Parks and Recreation Department has established a project scope for layout and construction of a natural surface trail system within the Skyline Wilderness Park. The funding for this project is from the City Vision fund as part of the larger the Skyline Wilderness Park Development Project. The budget for this project is \$300,000.

The priorities identified for this project include layout and construction of a network of multi-use trails that include the Skyline Trail, Trailhead Connections, and other trail segments as conceptualized within the Skyline Wilderness Park Masterplan Map.

*TrailArts* expertise with natural surface trails is based on nearly two decades of professional trail consulting and construction. All of our work includes in-field analysis and route determinations based on trail standards and specifications developed by the Professional Trail Builders Organization (PTBA), the US Forest Services (USFS), IMBA, and *TrailArts* expertise with developing trail layout in a variety of conditions for all types of trail users. We understand the dynamics of providing trails that are intimate and inviting for the user without compromising sustainability, safety, or the integrity of the environment.

*TrailArts* adherence to Standardized Trail Design and Construction Specifications consistently provides the highest quality natural surface trails available. The following processes are utilized for the development of all of our Natural-Surface Trails.

*Trail Design:* Sustainable rolling contour design standards include:

- ✓ Trail Alignment using the natural topography of the land.
- ✓ Trail Alignment that accommodates critical habitats and/or significant natural resources.
- ✓ Trail alignment that accommodates current and future user trends.
- ✓ Trail Alignment that avoids areas with existing noxious plant infestations.
- ✓ Trail alignment to ensure water exits the trail often including placement of rolling grade dips and grade reversals as the standard drainage feature.
- ✓ Average trail grades not to exceed 5-8% for hiking and biking.
- ✓ Maximum trail grades not to exceed 15%-17% for hiking and biking.
- ✓ Trail grades and trail tread grades determined and verified with a Clinometer.
- ✓ Trail out slope between 3-8% checked with a digital level.

*Heartland Outdoors, Inc. dba TrailArts*  
*Trail Planning and Construction*

**Trail Construction:**

TrailArts adherence to Standardized Construction Specifications consistently provides the highest quality natural surface trails available. The following processes are utilized for all of our *Full-Finish* Natural-Surface Trail Construction.

**Tread Preparation:**

1. Machine assisted excavations and grading of full bench trail tread. This includes, but is not limited to:

- ✓ Cutting back slopes with proper and appropriate angle of repose.
- ✓ Filling and rebuilding climbing turns and switchbacks with proper tread slopes and drains.
- ✓ Cutting, filling and grading the trail tread with proper out slopes of between 3% and 8%.
- ✓ Balanced Grade Excavation between drainage features.
- ✓ Installing rolling grade dip and knick drainage features.
- ✓ Rolling grade dips, or knick drains as the standard drainage feature.
- ✓ Average trail grades not exceeding 5-8%.
- ✓ Maximum trail grades not exceeding 15-17% for hiking and biking.
- ✓ All Trail grades verified with a clinometer.
- ✓ Trail out slope between 3-8% checked with a digital level.
- ✓ Installing stone retention and culvert structures per project specifications.
- ✓ Grading and contouring all critical edge areas flush with tread to enhance sheet drainage.
- ✓ Grading and contouring all down slope areas with proper and appropriate angle of repose.

**Tread Preparation: (cont.)**

2. Hand grooming and finishing of trail corridor and tread. This includes but is not limited to:

- ✓ Finish raking of back slopes, the trail tread, and down slope areas.
- ✓ Hand fitting and finishing stonework.
- ✓ Compacting filled tread zones. This includes switchback and climbing turns, grade dips, and drains, and any area where fill is utilized to correct the tread grade.
- ✓ Removing rocks protruding from tread greater than 2" and placing on the down slope of the trail.
- ✓ Removing stones on the surface of the tread larger than ¼" and placing on the down slope of the trail.
- ✓ Removing woody material from the trail, i.e. stumps, and logs, roots greater than ½" diameter
- ✓ Removing non-noxious spoils from the trail and dispersing at least 20ft from the trail.
- ✓ Removing noxious spoils (weed, brush trees) and dispersing only within currently infested areas or removing from site.



Trail Corridor Preparation:

1. Hand and machine assisted pruning and clearing of the trail corridor. This includes but is not limited to:

- ✓ Flush cut pruning and cutting which leaves no sharp hazards.
- ✓ Pruning and clearing at least 2' behind the trail edges and a minimum of 10' overhead.
- ✓ Dispersing non-noxious spoils and woody material at least 20ft from the trail corridor or utilizing to obliterate social trails.
- ✓ Dispersing noxious spoils (weed, brush trees) only within currently infested areas or removing from site.
- ✓ Replanting native plant species when appropriate.

2. Closure and obliteration of social and reclaimed trails. This includes but is not limited to.

- ✓ Ripping and/or tilling tread surface. (Except in noxious infestation zones)
- ✓ Seeding with native vegetation.
- ✓ Replanting of native plant species when possible.
- ✓ Scarifying tread surface and barricading trail corridor with brush and tree cuttings.
- ✓ Installing and securing straw matting (if specified and provided)
- ✓ Installing signage (if specified and provided)

**SCOPE OF WORK BY TASKS:**

Professional Trail Design/Build Services to develop a network of multi-use trails within the Skyline Wilderness Park will include the following:

**TASK 1 - PLANNING & DESIGN SERVICES**

This task consists of all services necessary to take the project through the Planning & Design stage, and may include the following itemized services.

- 1.1 Kick-off Conference: The Consultant shall meet with the Project Manager to detail project management plan and scope. The consultant shall prepare an agenda. City staff will take and distribute minutes if required.
- 1.2 Review Background information listed in this RFP and any other resources as necessary.
- 1.3 Perform site review sufficient for proposed trail layout.
- 1.4 Perform trail flagging and GPS track data collection of alignments to be constructed.
- 1.5 Arrange and conduct appropriate progress meetings and/or site visits with City's Project Manager.
- 1.6 Conduct three meetings with Project Manager and other invitees as follows:
  - a. Preliminary Findings meetings to discuss site review and other project related matters.
  - b. Review draft alignment and mitigation recommendations.
  - c. Review final alignment and mitigation recommendations.
- 1.7 Provide preliminary descriptive trail data as used in the submitted trail construction rate sheet to allow for preliminary cost projections.

- 1.8 Provide Erosion and Sediment Control Plans.
- 1.9 If required, incorporate NEPA requirements, wetlands mitigation, monetary, ROW certification, environmental certification, SHPO, Architectural, CATx noise analysis, FONSI, etc. The Scope and fees will be negotiated as an amendment to this contract
- 1.10 Coordinate directly with utility companies' engineering divisions, as needed, to ensure that all existing utilities are completely and accurately identified and located in the field.
- 1.11 Provide one (1) copy of the final trail alignments and mitigation measures in a digital format compatible with AutoCAD.
- 1.12 Provide data necessary for submitting Grading and Erosion Control permits.
- 1.13 Provide a working Schematic Project Plan. (Includes components of 1.7 - 1.13)

**TASK 2 – CONSTRUCTION SERVICES:**

This task consists of all services necessary for Project Construction and may include the following itemized services.

- 2.1 Pre-Construction Conference: The consultant shall meet with the Project Manager to detail project phasing and timeline. The consultant shall prepare an agenda. City Staff will take and distribute minutes if necessary.
- 2.2 Acquire all necessary permits for construction.
- 2.3 Coordinate directly with utility companies' engineering divisions, as needed, to ensure all existing utilities are completely and accurately identified and located in the field; that pertinent information regarding depth, material, size, etc. has been identified prior to excavation.
- 2.4 Provide an "As-Built" Working Schematic Plan including GPS Track data of final "as-built" alignments, trail specifications of width, length, and difficulty rating, and any other pertinent information (restrictions for access and/or use, etc).
- 2.5 Prepare progress reports: A record of activity will be maintained by the contractor including weather conditions, construction progress, deviations from the plans and specifications, work performed, quantities installed and any other pertinent information. Submit to Project Manager with pay requests and/or upon request.
- 2.6 Prepare and submit pay request information.
- 2.7 Conduct walkthrough inspection with Project Manager prior to final City acceptance, close out and warranty of completed task components.
- 2.8 The Project Manager will prepare a letter to SDDENR notifying them of project completion, if required.

## **PROJECT TEAM, MEETINGS, AND SUBMITTALS SUMMARY**

### **6.1 PROJECT TEAM MEMBERS**

- The Contractor/Consultant
- Sub-Contractors/Consultants, as specified in Proposal.
- City Parks and Recreation staff
- City Consultants and Contractors for the Skyline Trailhead Project

### **STAKEHOLDERS**

The Project Manager may invite select members of the following groups to the Project Team for consultation.

- Black Hills Mountain Bike Association
- Black Hills Runners Club
- Skyline Drive Preservation, Inc.

### **6.2 MEETINGS AND CONSULTATION**

Meetings and consultation requiring the Consultant's participation will likely include but may not be limited to the following:

- Kick-off meetings, Tasks 1
- Preliminary Plans, specifications, and submittal review meeting(s), Task 1
- Utilities coordination meetings, if needed (Task 1 and/ or 2)
- Final Plans, specifications, and Contract documents review, Task 1
- Pre-Construction Conference, if needed (Task 2)
- Construction Progress Meetings/Site Visits, Task 2.

### **6.3 SUBMITTALS**

Submittals required from the Consultant will likely include, but may not be limited to the following:

- Preliminary Plans, Schematic Plans, Specifications Contract Documents, and Price Proposal, Task 1
- Final Plans, Specifications, and Submittals, Task 1.
- Pay requests, Task 1.
- Progress Reports submitted with pay requests, Task 1.
- Complete Plans, Specifications, Contract Documents, and Price Proposal, Task 2.
- Pre-Construction conference meeting minutes (change meeting minutes to City Staff req.), Task 2
- Final "As Built" schematic Plans and Specifications with digital trail data, Task 2.
- Pay requests, Task 2.
- Progress Reports submitted with Pay requests, Task 2.
- Progress Meetings/Site Visits, Task 2.

The Consultant shall allow 10 working days for Project Manager review of all Task 1 and Task 2 plans, specifications, contract documents and cost proposals.

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**EXHIBIT B: BILLING RATES**

**Skyline Wilderness Park Natural Surface Trail System  
Project No. PR-13-6109 / CIP No. 51002**

1.1 Trail Consulting and Design: Our consulting services include but are not limited to Site Inspections and On-Site Consultation, Preliminary Planning and Proposal Preparation, Presentations, Trail Design and Layouts, Master Plans, Maintenance Plans, Volunteer Management, and Crew Training.

Standard Rate: \$95/hr. or \$950.00/day.

Trail Design and Layout: \$.35 per linear foot w/*TrailArts* construction.

\$.45 per linear foot for design only. (no construction)

1.2 Landscape Architecture/Planning:

Principal: \$160.00/hour

Associate: \$85.00/hour

Intern: \$60.00/hour

Clerical: \$45.00/hour

1.3 Mechanized Construction:

Mini Excavator: \$145.00/hr. or \$1,450.00/day.

Sutter Trail Dozer: \$185/hr. or \$1,850.00/day.

1.4 New Trail Construction:

1.4.1 Full-Finish Natural Surface Construction:

<u>18-24" Wide Hand-Built Natural Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF001	\$5.85	FF 24" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF002	\$6.35	FF 24" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF003	\$6.85	FF 24" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF004	\$7.35	FF 24" Bench 1	Moderate Slope, Light Veg., Good Soils
NF005	\$7.85	FF 24" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF006	\$8.85	FF 24" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF007	\$9.35	FF 24" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF008	\$10.10	FF 24" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF009	\$10.85	FF 24" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF010	\$11.85	FF 24" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF011	\$12.85	FF 24" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF012	\$12.85- \$27.85	FF 24" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

# TrailArts

## Trail Planning and Construction

<u>30-36" Wide-Machine Assisted Natural Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF101	\$4.35	FF 36" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF102	\$4.60	FF 36" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF103	\$4.85	FF 36" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF104	\$5.10	FF 36" Bench 1	Moderate Slope, Light Veg., Good Soils
NF105	\$5.35	FF 36" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF106	\$5.60	FF 36" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF107	\$5.85	FF 36" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF108	\$6.10	FF 36" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF109	\$6.60	FF 36" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF110	\$6.85	FF 36" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF111	\$7.35	FF 36" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF112	\$7.35-\$12.35	FF 36" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

<u>48" Wide-Machine Assisted Natural Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF201	\$4.70	FF 48" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF202	\$5.10	FF 48" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF203	\$5.35	FF 48" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF204	\$5.65	FF 48" Bench 1	Moderate Slope, Light Veg., Good Soils
NF205	\$5.85	FF 48" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF206	\$6.35	FF 48" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF207	\$6.60	FF 48" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF208	\$7.10	FF 48" Bench 5	Moderate Slope; Heavy Brush/Wooded, Mixed, Rocky Soils.
NF209	\$7.35	FF 48" Bench 6	Steep Slope, Light Veg., Good to Mixed Soils.
NF210	\$8.85	FF 48" Bench 7	Steep Slope, Brush Veg., Mixed Soils.
NF211	\$9.85	FF 48" Bench 8	Steep Slope, Heavy Brush/Wooded Veg., Poor/Rocky Soils.
NF212	\$9.85-\$15.90	FF 48" Bench 9	Steep Slope, Heavy Veg., Poor/Rock Soils, Structures.

<u>60" Wide-Machine Assisted Natural Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF301	\$4.95	FF 60" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF302	\$5.35	FF 60" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF303	\$5.60	FF 60" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF304	\$6.10	FF 60" Bench 1	Moderate Slope, Light Veg., Good Soils
NF305	\$6.35	FF 60" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF306	\$6.85	FF 60" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF307	\$7.10	FF 60" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF308	\$7.60	FF 60" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF309	\$7.85	FF 60" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF210	\$9.35	FF 60" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF311	\$10.35	FF 60" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF312	\$10.35-\$17.35	FF 60" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

# TrailArts

Trail Planning and Construction

<u>72" Wide-Machine Assisted Natural Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF401	\$5.47	FF 72" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF402	\$6.05	FF 72" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF403	\$6.45	FF 72" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF404	\$6.85	FF 72" Bench 1	Moderate Slope, Light Veg., Good Soils
NF405	\$7.25	FF 72" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF406	\$7.60	FF 72" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF407	\$8.10	FF 72" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF408	\$8.85	FF 72" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF409	\$9.30	FF 72" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF410	\$9.85	FF 72" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF411	\$10.45	FF 72" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF412	\$10.45-\$20.25	FF 72" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

<u>48" Wide-Machine Assisted Crusher Fine Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF501	\$8.20	FF 48" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF502	\$9.03	FF 48" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF503	\$10.05	FF 48" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF504	\$10.75	FF 48" Bench 1	Moderate Slope, Light Veg., Good Soils
NF505	\$11.60	FF 48" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF506	\$12.30	FF 48" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF507	\$13.10	FF 48" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF508	\$14.25	FF 48" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF509	\$15.05	FF 48" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF510	\$16.20	FF 48" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF511	\$17.60	FF 48" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF512	\$17.60-\$32.00	FF 48" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

<u>60" Wide-Machine Assisted Crusher Fine Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF601	\$9.60	FF 60" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF602	\$11.05	FF 60" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF603	\$11.85	FF 60" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF604	\$12.85	FF 60" Bench 1	Moderate Slope, Light Veg., Good Soils
NF605	\$13.85	FF 60" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF606	\$14.80	FF 60" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF607	\$15.80	FF 60" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF608	\$17.50	FF 60" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF609	\$18.50	FF 60" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF610	\$19.85	FF 60" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF611	\$21.25	FF 60" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF612	\$21.25-\$43.75	FF 60" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

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<u>72" Wide-Machine Assisted Crusher Fine Surface:</u>			
CODE	PRICE/lf	TYPE	DESCRIPTION
NF701	\$11.05	FF 72" Meadow 1	Gentle Slope, Minimal Veg., Good Soils.
NF702	\$12.50	FF 72" Meadow 2	Moderate Slope, Grass Veg., Mixed Soils.
NF703	\$13.85	FF 72" Meadow 3	Moderate Slope, Grass/Lt Brush Veg., and/or Poor Soils.
NF704	\$14.85	FF 72" Bench 1	Moderate Slope, Light Veg., Good Soils
NF705	\$16.05	FF 72" Bench 2	Moderate Slope, Light Veg., Mixed Soils
NF706	\$17.35	FF 72" Bench 3	Moderate Slope, Light Veg., Poor Soils/Rocky.
NF707	\$18.45	FF 72" Bench 4	Moderate Slope, Brush Veg., Good To Mixed Soils.
NF708	\$20.55	FF 72" Bench 5	Moderate Slope, Brush/Wooded Veg., Mixed to Rocky Soils.
NF709	\$21.85	FF 72" Bench 6	Moderate/Heavy Slope, Light Veg., Good to Mixed Soils.
NF710	\$23.35	FF 72" Bench 7	Moderate /Heavy Slope, Brush Veg., Mixed Soils.
NF711	\$24.85	FF 72" Bench 8	Moderate/Heavy Slope, Brush/Wooded Veg., Poor/Rocky Soils.
NF712	\$24.85-\$51.25	FF 72" Bench 9	Heavy/Extreme Slope, Heavy Veg., Poor/Rock Soils, Structures.

1.5 Sub-Finished New Trail Construction: TrailArts, Inc. utilizes construction and finishing techniques that provide a great deal of flexibility to the client. We will tailor finish level of the trail and corridor specifically to the requirements of your project. Sub-Finished Trail Construction Rates are based on Full-Finish Rates (Sections 1.2.1, 1.2.2) and determined on a site-specific basis. Please inquire further for more information.

1.6 Trail Rehabilitation and Restoration: TrailArts, Inc. utilizes the same construction and finishing techniques for trail rehabilitation and restoration as we do for our fully finished new trails. Finish levels vary depending on the requirements of your project. Rates are based on Full Finish New Trail Construction rates (Sections 1.2.1, 1.2.2) and determined on a site-specific basis.

1.7 Trail Obliteration and Closure: Quoted per linear foot lf. For 2' to 4' (Add \$.15/lf for reveg. Labor, materials not included)

- O1: \$1.95 Easy: Minimal Slope Single track, No Slashing.
- O2: \$2.35 Moderate: Minimal Slope Single track, w/ Slashing or scarification.
- O3: \$2.95 Heavy: Moderate Slope, Heavy erosion, Single-Double track /Slashing/scarification.
- O4: \$3.95 Extreme: Steep Slopes & Erosion, Multiple Track, Slashing, Structure Construction.

1.8 Structural Trail Features: Retaining Walls, Tread Armoring, Drainage Structures.

Retaining Walls: (Quoted per square feet of face, sff.)

- S1: \$30.00/sff Gravity Supported Natural Stone Crib Wall: Hand Built.
- S2: \$45.00/sff Gravity Supported Dry Laid Natural Stone: Hand Built w. Armoring.
- S3: \$50.00/sff Gravity Supported Dry Laid Natural Stone: Hand Built w/ Chinking and Armoring.

Tread Armoring & Cobbling:

- AA: \$15.00/sff. General tread/non-tread Armoring/Cobbling.
- A1: \$150.00 18"-24" wide armored tread drainage crossing.
- A2: \$225.00 30"-36" wide armored tread drainage crossing.
- A3: \$300.00 48"-42" wide armored tread drainage crossing.
- A4: \$410.00 60" wide armored tread drainage crossing
- A5: \$495.00 72" wide armored tread drainage crossing.

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## Trail Planning and Construction

### Structural Climbing/Switchback Turns: Stone Retained/reinforced with Armoring.

T1:	\$375.00	18"-24" wide retained/reinforced climbing or switchback turn.
T2:	\$550.00	30"-36" wide retained/reinforced climbing or switchback turn.
T3:	\$750.00	48"-52" wide retained/reinforced climbing or switchback turn.
T4:	\$937.50	60" wide retained/reinforced climbing or switchback turn.
T5:	\$1135.00	72" wide retained/reinforced climbing or switchback turn.

### Bridge Crossings, Structural Culvert Crossings, etc.

We offer a variety of solutions for drainage, crossings, and wetland navigation. We quote on bridges, culvert drainage crossings, pitched stone tread, elevated and surfaced tread, boardwalk, and much more! Please inquire as we quote these on a site and job specific basis.

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*\*Rate specifications identified in this document are intended as labor and rate guidelines only.*