



OFF THE BEATEN PATH

Trail Work and Training ✿ Low Impact Backcountry Construction

24 September 2014

Dear Sirs and Madams,

Thank you for the opportunity to offer a bid proposal for stone step construction along the Great Pond Trail. This project is consistent with the type of niche work that my company specializes in. I am confident that Off the Beaten Path is well equipped to construct a sustainable and naturalistic structure that will compliment the quality of the adjacent boardwalk, mitigate erosion and safety issues while enhancing the natural beauty of the Great Pond Trail. At Off the Beaten Path, we pride ourselves on building stone structures that are detail oriented and will endure for decades, if not centuries to come.

I have made a sincere effort to include all the necessary information for a comprehensive proposal in the following pages. If I have excluded anything, or if any clarifications are needed, please do not hesitate to contact me. My information is listed at the bottom of this page.

Thank you again for your consideration.

Sincerely,

Jedediah Talbot
Owner, *Off the Beaten Path*

Construction sequence and techniques:

The stone step construction project on the Great Pond Trail is not particularly technical; however, it involves a number of logistical challenges due to the location of the work site.

The first option for transporting materials is to drive them in from the trailhead on Golden Ridge Road. 60" wide low impact tracked equipment (see photo #1) would be utilized to transport the stone and aggregate from Golden Ridge Lane approximately 1550 feet to the vista and water access to Great Pond. From there, materials would be transferred to a smaller tracked wheelbarrow (see photo #2) and driven approximately 650 feet to the relatively level area uphill from the work site. Crushed rock aggregate would be carried by hand from this point. The larger stones would be lifted in to the air via a wire rope skyline system and placed directly into the new staircase (see photos #3 and 4).

Another option for moving materials to the site is to utilize the privately owned field off the end of Davis Point Road. Materials could be driven close to the work site with tracked equipment, then lifted into place via the aforementioned skyline system. Although efforts were made to secure permission for access from this direction, definitive permission was not granted. Therefore, this bid is based on bringing in materials along the trail from Golden Ridge Road.

Specifications of Work:

It is recommended that granite blocks be used for all step treads and granite boulders for cribbing (also known as "gargoyle" or "pinner" rocks). Please refer to construction drawings and photos below for additional details. Specifications include:

- All step stones will be a minimum of 400 pounds with an average of 500 pounds each.
- Risers will be 6-8" in height.
- The tread or stepping surface will be a minimum of 14" long.
- The tread width will be 22-26" with an average of 24".
- All steps will have 90 degree relationships between the tread and the riser.
- Tread surfaces will be gently pitched 1-5% to drain water and prevent ice buildup.
- Steps and cribbing will be set in compacted mineral soil or crushed rock
- Cribbing will be placed above and below all steps and be set deeply in the ground.
- Downhill cribbing will have high top contact on the step and extend higher than the tread level for added safety.
- Existing steps will be removed and possibly repurposed as dry stack retaining walls on the downhill side of the steps.

Project Schedule and Timeline:

Although every effort will be made to construct this project in 2014, it may be necessary to complete it in 2015. Off the Beaten Path is already under contract for four more projects in 2014 with two more projects being decided upon in the coming two weeks. Projects are prioritized based on the date of the signing of the contract. The construction season for projects like this ends when the ground freezes.

This project may benefit from staging materials this winter when the ground is frozen in order to minimize soil disturbance and trail user interactions. The construction of the steps in this case would commence in the spring of 2015, weather permitting.

Company Background and Qualifications:

From spring through fall, the scope of work for Off the Beaten Path (OBP) encompasses many aspects of trail design, maintenance, and construction, with a focus on education and training. Technical stone work, naturalistic accessible trails and backcountry rigging systems are strengths of the company. Typical projects include pedestrian trail layout and design, new trail construction (hand built and machine built), intensive trail reconstruction (such as large rock staircases and retaining walls), trail infrastructure improvements (such as bridges, boardwalks, kiosks, benches, trailheads etc.), and trail skills instruction. Over the last 15+ years, company owner Jed Talbot has built or supervised the installation of well over 1000 stone steps in backcountry settings across the country.

Jed Talbot is the co-author of the upcoming United States Forest Service Trail Manual titled “Principles of Backcountry Trail Rigging” This manual will be the first published resource on how to safely move materials through the air using hand powered equipment for backcountry construction projects. Jed is considered a nationwide leader in low impact material transportation for trail projects and travels across the country teaching such trail building techniques to volunteer, municipal, federal, private, public, and non-profit crews. During the winter, Off the Beaten Path focusses on low impact logging and timber stand improvement projects.

Off the Beaten Path is a member company in the Professional TrailBuilders Association and a Certified Logging Professional (CLP) company. Jed has also taken the Maine Department of Conservation Non-Point Source Pollution Course to become a Certified Erosion Control Specialist.

Description of services pertaining to this project:

Off the Beaten Path (OBP) will serve as the prime contractor. OBP will be responsible for all project coordination, communication with staff from the town of Cape Elizabeth, materials suppliers, and employees. The design and construction of the stone steps will involve specific duties including but not limited to: material transportation via low impact equipment, soil excavation, installation of stone steps and cribbing, site restoration and rehabilitation.

Equipment owned by OBP that is available for this project:

- 2004 ASV RC-60 rubber tracked skid steer loader, 7000# weight with attachments, 2000# payload
- 1996 Hitachi rubber tracked crawler carrier dump vehicle, 5000# weight, 5500# payload
- CanyCom rubber tracked power wheelbarrow, 400# weight, 1000# payload

- Griphoist continuous feed wire rope winches, 2000# and 4000# capacities with wire rope, synthetic wire rope, blocks, slings and shackles and enough accompanying equipment to set up multiple hoisting systems to transport materials through the air without machinery
- All hand tools needed including generators and rock drills.

Cost Breakdown:

	Description	Number of Units	Unit of Measure	Cost per Unit	Subtotal	Transport	Total Cost
MATERIALS							
1.5" crushed stone		2	cu. yd.	\$20.00	\$40.00	\$35.00	\$75.00
Granite step stones	24"x12"x16", 500# avg. weight	11	ton	\$240.00	\$2,640.00	\$400.00	\$3,040.00
Granite cribbing	flagstone shaped	50	sq. ft.	\$2.50	\$125.00	\$50.00	\$175.00
Granite gargoyle stones	irregular, 300# avg. weight	16	ton	\$125.00	\$2,000.00	\$250.00	\$2,250.00
EQUIPMENT							
Hitachi Crawler Carrier	Rubber Tracked	1	week	\$800.00	\$800.00	\$200.00	\$1,000.00
Skid Steer Loader	Rubber Tracked	1	week	\$800.00	\$800.00	\$200.00	\$1,000.00
CanyCom Power Wheelbarrow	Rubber Tracked	1	week	\$250.00	\$250.00	\$50.00	\$300.00
LABOR							
Supervisor		100	hour	\$45.00	\$4,500.00	\$0.00	\$4,500.00
Equipment Operator		80	hour	\$35.00	\$2,800.00	\$0.00	\$2,800.00
Mason		160	hour	\$30.00	\$4,800.00	\$0.00	\$4,800.00
						TOTAL BID	\$19,940.00

References:

- Rick Young, Eaton Conservation Commission, email: farmer4hire@gmail.com
- Fred Lavigne, Member of Wonalancet Out Door Club; phone: 603.284.6919
- Daniel Newton, President of Waterville Valley Athletic and Improvement Association; email Danpnewton@gmail.com; phone: 603.726.1232
- Cristin Bailey, Trails Manager and Volunteer Coordinator for the US Forest Service, Saco Ranger District; email: cristinbailey@fs.fed.us; phone: 603.447.5448 x112; 603.986.2645
- Lew Shelley, Director of Training for the SCA; email: lshelley@thesca.org; phone 603.543.1700 x174

- Walter Opuszynski, Trail Director of Northern Forest Canoe Trail, email: walter@northernforestcanoetrail.org; phone: 802.496.2286 x2
- Chuck Simpson, Maine Department of Conservation Regional Land Manager, Bureau of Parks and Public Lands, email: chuck.simpson@maine.gov; phone: 207.941.4413

Contingencies of bid:

- It is highly recommended that the trail section must be closed during construction.

Photos:



Photo #1: 60" wide tracked carrier moving aggregate



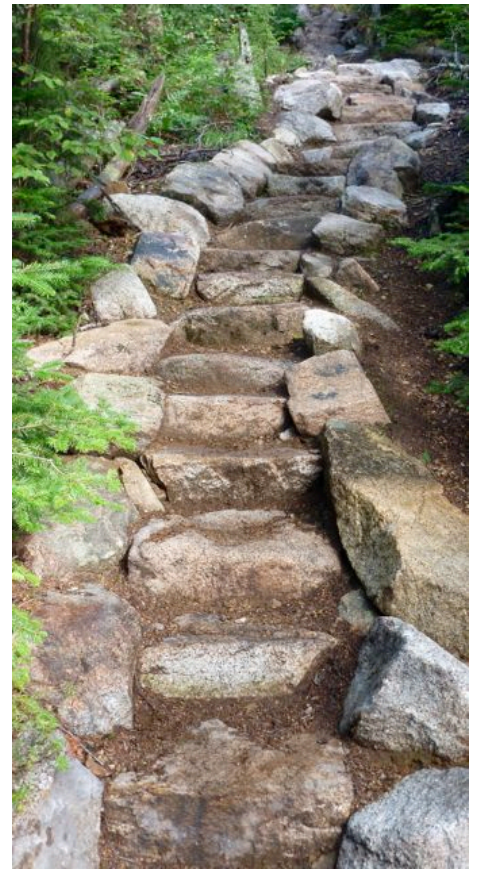
Photo #2: Smaller tracked wheelbarrow moving aggregate



Photos 3 and 4: Step stones being set off a skyline

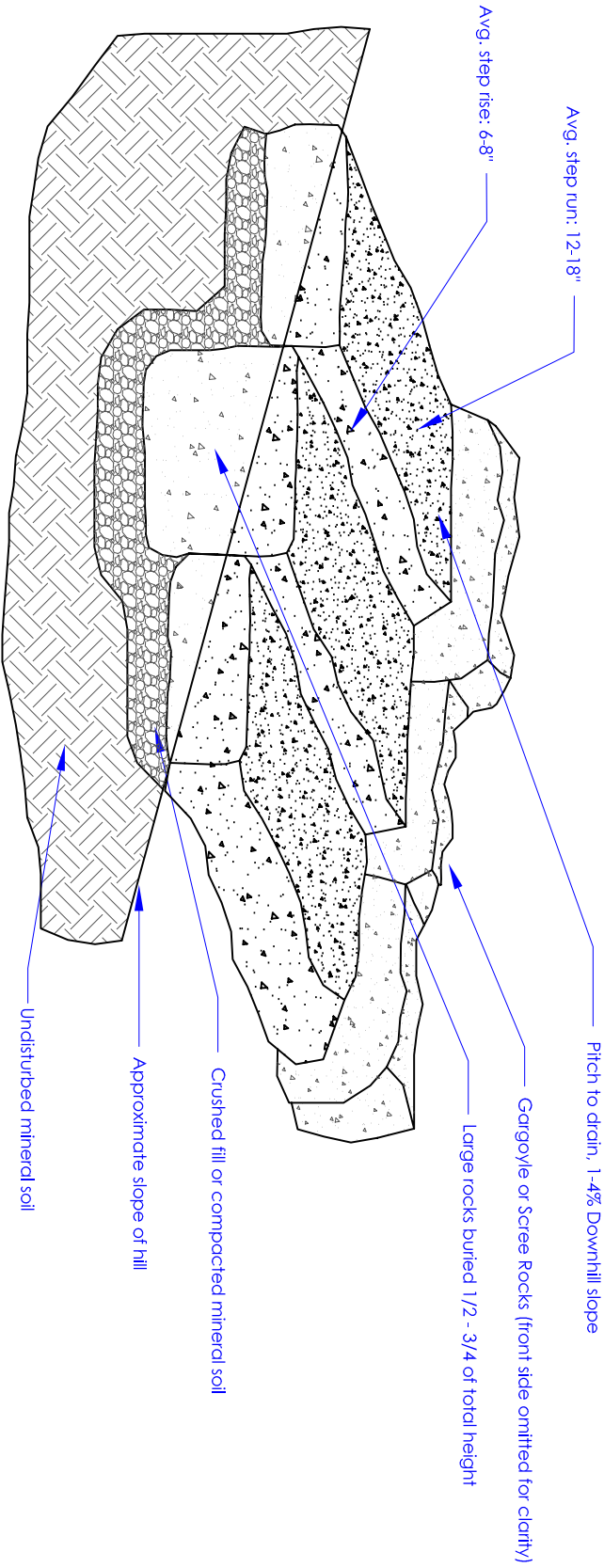


Photo 5: Typical stone staircase



Photos 6-9: Typical stone staircases





OFF THE BEATEN PATH
TRAIL WORK AND TRAINING

110 Poplar Hill Road, Turner, Maine 04282

Cell: 207.312.1340

Website: www.obptrailwork.com

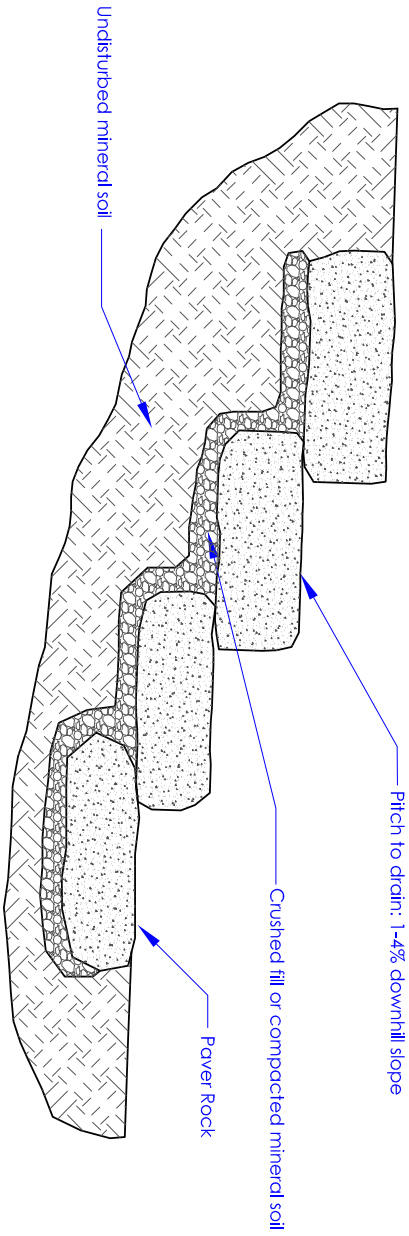
TITLE: Rock Steps, Independently Set

NOT TO SCALE

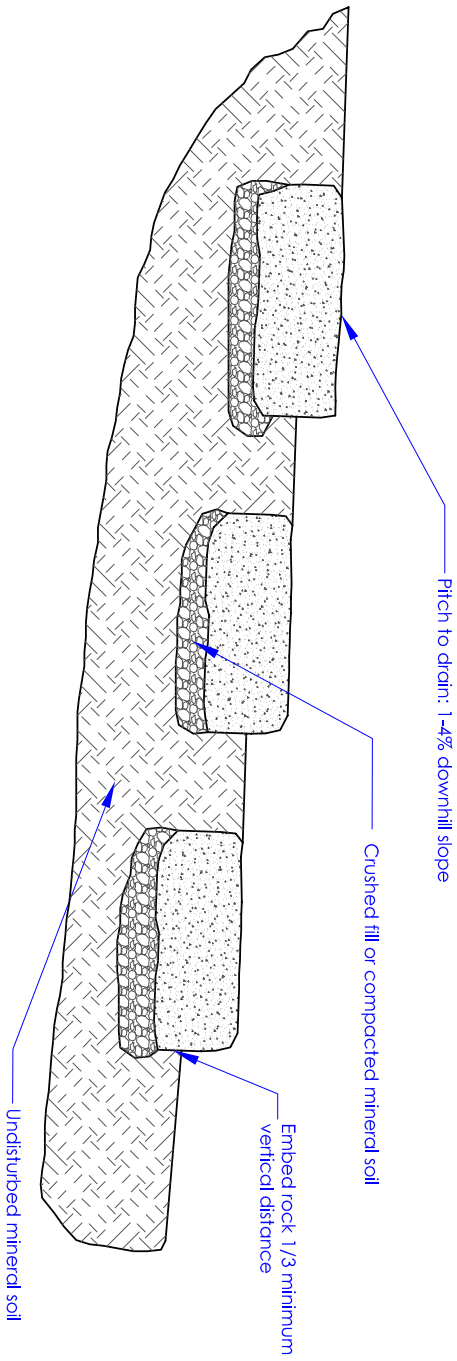
DATE: 22 September 2014

Email: Jed@obptrailwork.com

OVERLAPPING ROCK STAIRWAY



ROCK RISER STAIRWAY



OFF THE BEATEN PATH

TRAIL WORK AND TRAINING

TITLE: Rock Stairways

NOT TO SCALE

DATE: 22 September 2014

110 Poplar Hill Road, Turner, Maine 04282

Cell: 207.312.1340

Website: www.obptrailwork.com

Email: jed@obptrailwork.com

Certificate of Insurance:



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
9/3/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Riley Insurance Agency, LLC 139 Maine Street P. O. Box 659 Brunswick ME 04011	CONTACT NAME: Jane Soule
	PHONE (A/C, No., Ext): (207) 729-3321 FAX (A/C, No.): (207) 729-4056 E-MAIL ADDRESS: jsoule@rileyinsurance.com
INSURED Jedediah Talbot 110 Poplar Hill Road Turner ME 04282	INSURER(S) AFFORDING COVERAGE NAIC #
	INSURER A: Travelers Indemnity co of CT 25682
	INSURER B: Progressive Northern Insurance 38628
	INSURER C: Maine Employers' Mutual 11149
	INSURER D:
	INSURER E:

COVERAGES CERTIFICATE NUMBER: **CL149310266** REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY			6809394C073	2/15/2014	2/15/2015	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 5,000
							PERSONAL & ADV INJURY \$ 1,000,000
							GENERAL AGGREGATE \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$ 2,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
B	AUTOMOBILE LIABILITY			08442763-7	8/15/2014	2/15/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input checked="" type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident) \$
							Uninsured motorist combined \$ 1,000,000
	UMBRELLA LIAB	<input type="checkbox"/> OCCUR					EACH OCCURRENCE \$
	EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$
	DED	RETENTION \$					\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			1810103336	8/6/2014	8/6/2015	WC STATU-TORY LIMITS
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N	N/A				E.L. EACH ACCIDENT \$ 100,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 100,000
							E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Landscaping Contractor

CERTIFICATE HOLDER	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Jane Soule/JES 