



131 Presumpscot Street
Portland, ME 04103
T: 207.874.2323
F: 207.874.2727

**15027: Dover High School and Career
Technical Center**
25 Alumni Drive
Dover, NH 03820

CONSTRUCTION

Change Request Proposal 190012

Title **RFI-009 Organic Material at Loading Dock**
Date Issued **19-Sep-2016**
Proposal Status **Submitted**

Architect	Owner
Alan Pemstein HMFH Architects, Inc. 130 Bishop Allen Drive Cambridge, MA 02139 T: 617.844.2140 F: 617.876.9775 E: apemstein@hmfh.com	Robert Carrier Dover School District 61 Locust Street 409 Dover, NH 03820-4132 T: 603-516-6800 F: 603-516-6809 E:

Project Cost And Schedule Impacts

This proposal will increase the value of this contract by \$33,294.00.

Scope Of Work

This proposal covers the additional costs to remove unsuitable organic materials encountered while excavating at the loading dock and driveway area as noted in RFI-009. Proposal includes removal and disposal of unsuitable materials and backfill with gravel borrow material. A layer of geotextile fabric was placed between the remaining clay/organic layer and the new backfill material. The value of this proposal will be included in the final GMP.

Cost Items		
Description	Company	Amount
RFI-009 Organic Material At Loading Dock Area	S.U.R. Construction Inc.	\$33,294.00
Total		\$33,294.00

Architect Recommendation	Owner Approval
In accordance with my contract for services, I have reviewed this change proposal and agree that it appears to be fair, reasonable, necessary, and consistent with the design intent. I hereby recommend acceptance.	Please sign below to indicate approval of this Change Request Proposal. If accepted, this Change Request Proposal will be included in the next Contract Change Order.
Signature _____ Date _____	Signature _____ Date _____
Name & Title of Authorized Representative Alan Pemstein HMFH Architects, Inc.	Name & Title of Authorized Representative Robert Carrier Joint Building Committee Chair Dover School District

This change request proposal includes only the direct costs associated with this work. PC Construction Company reserves the right to later claim schedule adjustment and extension of time, and for all other indirect impact costs caused by or resulting from this change proposal and cumulative effects of other change orders to the work of this contract.



S·U·R
CONSTRUCTION, INC.

233 Chestnut Hill Road
Rochester, NH, USA 03867
603-332-4554
Main Fax: 603-332-0351

To:	PC Construction	Contact:	Scott Blair
Address:	131 Presumpscot St. Portland, ME 04103	Phone:	207-874-2323
		Fax:	207-874-2727
Project Name:	Loading Dock OverExcavation	Bid Number:	
Project Location:	High School & Technical Center, Dover, NH	Bid Date:	9/7/2016

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Open Soil Excavation	969.00	CY	\$9.00	\$8,721.00
2	Gravel Borrow, Compacted In Place, From Off Site Source	969.00	CY	\$23.00	\$22,287.00
3	Mirafi HP570	644.00	SY	\$3.55	\$2,286.20

Total Bid Price: \$33,294.20

Notes:

- Proposal is for the OverExcavation of Unsuitable Soils at the Loading Dock and Replacement with Gravel Borrow.
- Proposal Reflects Agree Upon Unit Prices for the Associated Work.

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

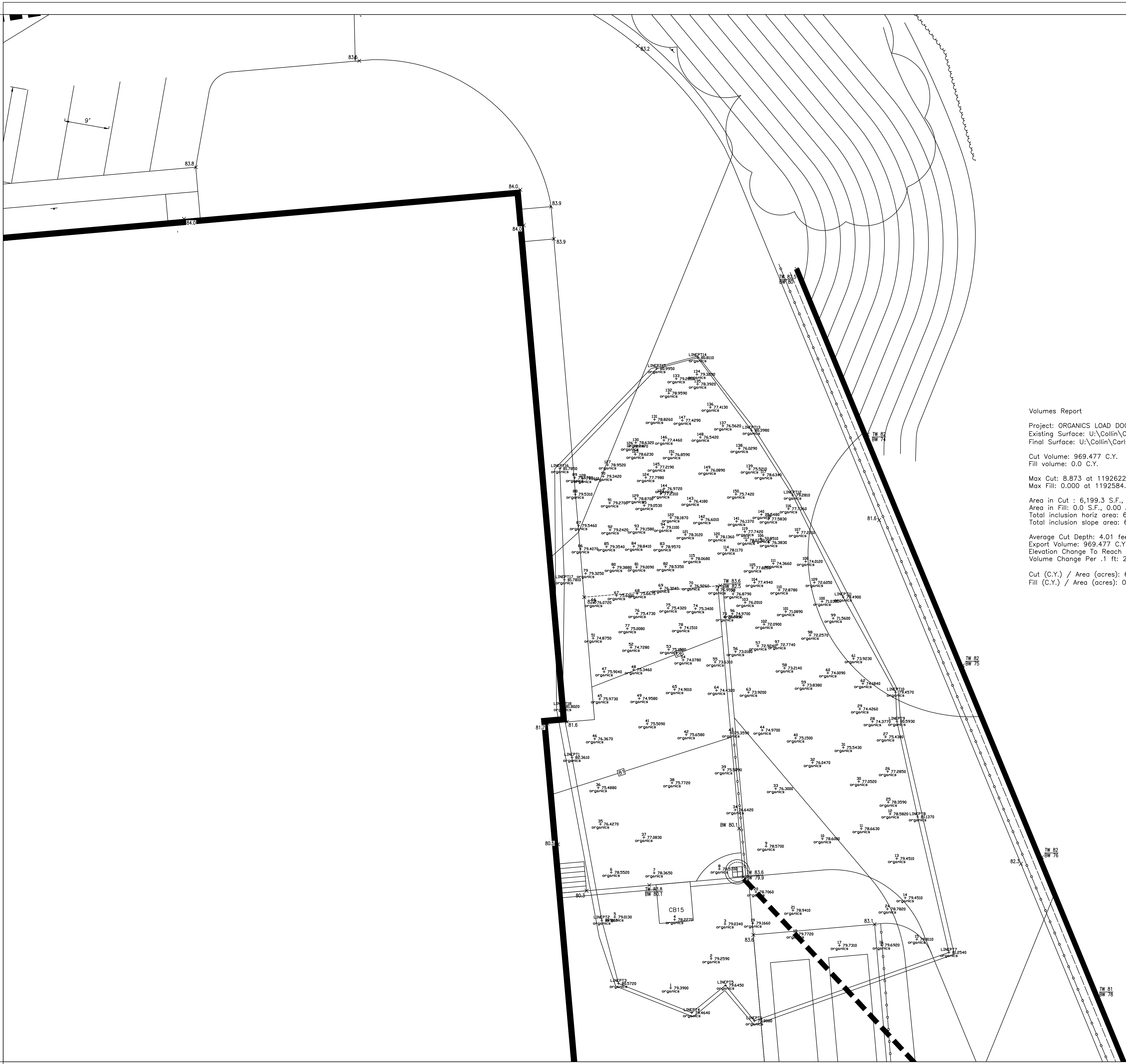
Date of Acceptance: _____

CONFIRMED:

S.U.R. Construction, Inc.

Authorized Signature: _____

Estimator: Jason DeWildt, PE
jdewildt@surconstruction.com



Volumes Report

Fri Sep 09 11:48:34 2016

Project: ORGANICS LOAD DOCK 090816
Existing Surface: U:\Collin\Carlson Projects\JOBS\Dover High School\QUANTITIES\ORGANICS LOAD DOCK 090816-ex.tin
Final Surface: U:\Collin\Carlson Projects\JOBS\Dover High School\QUANTITIES\ORGANICS LOAD DOCK 090816-fn.tin

Cut Volume: 969.477 C.Y.
Fill volume: 0.0 C.Y.

Max Cut: 8.873 at 1192622.051,247925.211
Max Fill: 0.000 at 1192584.264,247861.865

Area in Cut : 6,199.3 S.F., 0.14 Acres
Area in Fill: 0.0 S.F., 0.00 Acres
Total inclusion horiz area: 6,199.3 S.F., 0.14 Acres
Total inclusion slope area: 6,854.4 S.F., 0.16 Acres

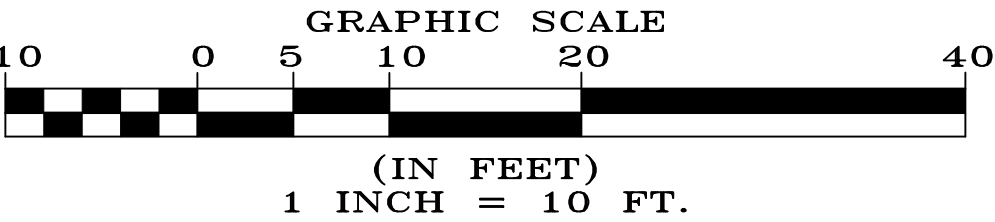
Average Cut Depth: 4.01 feet
Export Volume: 969.477 C.Y.
Elevation Change To Reach Balance: 4.015
Volume Change Per .1 ft: 23.0 C.Y.

Cut (C.Y.) / Area (acres): 6476.9
Fill (C.Y.) / Area (acres): 0.0

DOVER HIGH SCHOOL/CTC
Dover, NH

REMOVAL OF ORGANICS
Points and Quantity

By: S.U.R. Construction Inc.
233 Chestnut Hill Rd.
Rochester, New Hampshire





August 31, 2016
File No. 89120.01

Ms. Tina Stanislaski, AIA, LEED AP
HMFH Architects
130 Bishop Allen Drive
Cambridge, MA 02139

**Re: Pavement Subgrade/Unsuitable Soil Recommendations
Dover High School & Career Technical Center
Dover, New Hampshire**

Dear Ms. Stanislaski:

Nobis Engineering, Inc. (Nobis) has prepared this letter to present the results of our recent evaluation of unanticipated subgrade conditions encountered during construction of the above-referenced project. As you know, an unsuitable organic layer was identified within the general vicinity of the proposed loading dock and pavement area on the east side of the proposed building. Based on discussions with the contractor, and the information contained in RFI #009, it appeared that the unsuitable organic layer was limited to only a couple feet in thickness; however, we were contacted by the contractor earlier this week since the unsuitable organic layer extends to depths greater than 6 feet below proposed finish grade, and the contractor was requesting additional direction as to whether the material needed to be fully removed from proposed pavement areas.

Mr. Michael Ciance, PE of our office visited the project site on August 30, 2016 to review the exposed subgrade and extent/composition of the unsuitable organic layer. Prior to our arrival, the contractor had excavated unsuitable organics from the loading dock area, installed the geotextile separation fabric, and backfilled with gravel (NHDOT Item 304.2). Within the paved area to the north, it appears the unsuitable organics extend to depths on the order of 6 feet or more. The exposed subgrade was predominantly a dark gray silty clay with occasional roots; however, the contractor indicated that pockets of stumps and large roots had been encountered as the excavation progressed to the north.

Based on the observed conditions, we recommend large stumps and pockets of roots and organic matter be chased and removed from the proposed pavement area. However, where the subgrades consist predominantly of a soil matrix with occasional roots, the over-excavation can be limited to a depth of 2 feet below design pavement subgrade. It is our opinion this limited organic laden deposit can adequately support the proposed pavement/access road provided it is located at depths greater than 4 feet below proposed finish grade and a geotextile reinforcement layer is placed. The geotextile reinforcement layer and nearly 4 feet of processed backfill materials should provide adequate support and bridge potentially soft areas to reduce post-construction settlement. Excavations should continue to be excavated using a smooth-edge bucket to reduce the potential for disturbing the fine-grained subgrade. Subgrades should be firm and stable before placing the geotextile reinforcement layer. Soft or unstable areas, if



encountered, should be over-excavated to more competent material. The geotextile placement and backfilling efforts should be consistent with the recommendations presented in our RFI-009 response dated August 18, 2016.

The recommendation discussed above may result in potentially deep organics remaining below the pavement area. The owner must understand and accept the risk associated with building over an organic deposit. There is an inherent risk that compressible material not identified within the excavation depth may be present. This risk of unforeseen conditions cannot be eliminated without completely removing the organic deposit. If the owner is not willing to accept the risk associated with leaving a portion of organic soil in-place at depth, we recommend removing the organic deposit in its entirety and placing gravel (NHDOT Item 304.2) in controlled lifts to achieve design subgrade elevations.

We appreciate the opportunity to be of service to you on this project. If you have questions concerning this letter, or if we may be of further service, please contact us.

Sincerely,

NOBIS ENGINEERING, INC.

A handwritten signature in blue ink, appearing to read "M. Ciance", is written over the company name.

Michael A. Ciance, PE
Senior Project Manager