

**Federal Contract # DTFH6117D0001 – Task Order # 693JJ318F000303**

**LONG-TERM INFRASTRUCTURE PERFORMANCE PROGRAM (LTIP) TEAM**

**PROGRESS REPORT NO. 6**

**Report Period: April 01, 2019 – April 30, 2019**

Prepared For:

**Federal Highway Administration**

Prepared By:

**RUTGERS**

Center for Advanced Infrastructure  
and Transportation

## **A. Account of work performed in this period**

### **1. Subtask 1.2 - Monthly Meetings between the Contractor and FHWA/LTIP Group**

The Rutgers team had a conference call meeting with FHWA LTIP team on April 10, 2019.

### **2. Subtask 2 - Finalize the Experimental Plan**

The Rutgers team accomplished the following tasks for the month of April:

- The NDE Data Collection Plan, Instrumentation, and Live Loading plans were in the progress of revision.
- NJIT continued experimenting the lab specimens (such as chloride ponding)
- Steel fabricator was working on the girders.

## **B. Work to be accomplished during the next period**

### **1. Subtask 1.2 - Monthly Meetings between the Contractor and FHWA/LTIP Group**

The Rutgers team will have a monthly conference call with the FHWA/LTIP group in May.

### **2. Subtask 2 - Finalize the Experimental Plan**

- For the monthly period of May, the Rutgers team will focus on finalizing the NDE data collection plan, revising Instrumentation and live loading plans. Rutgers team will also work on a “Final Experimental Program” report to draft all the final specimen drawings, instrumentation, and data collections.
- NJIT team will continue testing the lab specimens
- The contractor will continue working on steel fabrication
- The contractor will transport the girders to the BEAST facility and start constructing the specimen.

### **Subtask 10 – Quarterly Progress Report**

The Rutgers team will prepare the electronic version of the monthly progress report for the month of April and submit it to FHWA.

## **C. Problems/Recommended Solutions**

No problems encountered during this period.

## **D. How the results of the work performed supports one or more of the FHWA, DOT, and LTIP Goals**

All of the work conducted under this task order aims to ensure that the accelerated full-scale testing at the BEAST facility will be conducted in the right way in order to meet the overall objectives of the LTIP program. With the proper specimen design as well as the appropriate instrumentation and periodic data collection campaigns on the specimen, this will result in satisfying the primary objectives of the LTIP program, inclusive of:

- (1) Establish the long-term performance of bare reinforced concrete bridges decks, common bridge joints, and various steel coatings under realistic environmental, live load, and maintenance-related influences
- (2) Establish the long-term performance and effectiveness of various common overlay systems applied to aging reinforced concrete bridges decks (and perhaps some intervention/repair strategies for other bridge components) under realistic environmental, live load, and maintenance-related influences

(3) Determine and quantify the ability of various nondestructive evaluation, global sensing approaches, and their integration to identify and track deterioration within bare reinforced concrete bridges decks and decks protected with common overlay systems

#### **E. Purchases and Rentals**

Please see attached supporting documentations for materials purchased from McMaster Carr.

#### **F. Travel Details for Reporting Period**

None

#### **G. A tabulation of the current and cumulative costs** (cost shown includes benefits and overhead)

Institution	Current Expenditures 04/01/2019-04/30/2019		Cumulative Expenditures 10/18/2018-04/30/2019	
	Labor	Other Costs	Labor	Other Costs
Rutgers, the State University of New Jersey	\$ -	\$ 1,327.93	\$ 50,992.99	\$ 51,391.54
New Jersey Institute of Technology (NJIT)	\$ 4,211.72	\$ -	\$ 15,546.35	\$ 1,606.19
Wiss, Janney, Elstner Associates, Inc.	\$ -	\$ -	\$ 4,699.00	\$ -

#### **H. Subcontractors' Progress Report**



**Sub-recipient Name:** New Jersey Institute of Technology

**Subaward No:** 0732

**Principal Investigator:** Matthew J. Bandelt

**T.O. 693JJ318F000303**

For the Period from 04/1/2019 through 04/30/2019

## A. Accomplishments/Work Performed

During this period, NJIT continued material testing in accordance with ASTM G109. These results will support the development of an environmental conditioning protocol for the BEAST specimen. Results were collected and are actively being analyzed by the research team.

## B. Work Anticipated During the Next Period

Chloride ponding testing and data collection in accordance with ASTM G109 will be continued. NJIT will also work to prepare molds for materials testing associated with the deck pour of the BEAST specimen.

## C. Changes /Problems

None to report.

## D. Participants & Charged Level of Efforts

The table summarizes the participants and charged level of efforts.

Personnel Name	Role/Contribution	Total Hours	Billed Cost
Aaron Strand	Technician	59	\$71/hour
Matthew Bandelt	Project Engineer	0	\$130/hour
Matthew Adams	Project Engineer	0	\$130/hour

## E. Purchases and Rentals

The team has no purchases or rentals to report for this period.



## F. Travel

None.

## G. Charges

Institution	Current Expenditures 04/01/2019 – 04/30/2019		Cumulative Expenditures 10/18/2018 – 04/30/2019	
	Labor	Other Costs	Labor	Other Costs
New Jersey Institute of Technology	\$4,211.72	\$-	\$15,546.35	\$1,606.19

Purchase Order Number **1067187 Revision 0 (Closed)**

Available Actions Add Comment ▼

Supplier **McMaster-Carr Supply Company**

**Go**

Status	Purchase Order	Revisions	PO Approvals	Shipments	Receipts	<b>Invoices</b>	Comments	Attachments	History
--------	----------------	-----------	--------------	-----------	----------	-----------------	----------	-------------	---------



### Invoicing Summary



Invoice No	Supplier Invoice Number	Invoice Date	Due Date	Invoice Type	Payment Status	Invoice Total	Invoiced By
<a href="#">2494001</a> 	93021652	4/26/2019	5/26/2019	Invoice	Paid	362.97 USD	System

**Total 362.97 USD**



### Invoice Line Details



Line No.	Product Name	Catalog No.	Unit Price	Qty / UOM Ordered	Extended Price	Invoice Qty / Cost	Status
1	Quick-Adjust Extension Hndl for Paint Rollers 2' to 4' Long	77305T62	31.66 USD	4 EA	126.64 USD	<b>4 / 126.64 USD</b>	Net Invoiced
2	Paint Roller Frame for 9" Roller Cover Length, undefined: undefined	7812T21	5.49 USD	4 EA	21.96 USD	<b>4 / 21.96 USD</b>	Net Invoiced
3	Paint Roller Cover 9" Long Paint Roller Cover with 3/8" Nap, undefined: undefined, Packs of 12	7755T406	55.03 USD	1 PK	55.03 USD	<b>1 / 55.03 USD</b>	Net Invoiced
4	Easy-Clean Paint Roller Tray, 2 qt. Capacity, undefined: undefined	7818T38	9.37 USD	4 EA	37.48 USD	<b>4 / 37.48 USD</b>	Net Invoiced
5	Mixing Sticks for 5 Gal. Container, Packs of 6	77985T72	8.57 USD	1 PK	8.57 USD	<b>1 / 8.57 USD</b>	Net Invoiced
6	Barrier Tape 0.003" Thk, 500 ft. Lg," Caution"	38615T14	12.44 USD	1 EA	12.44 USD	<b>1 / 12.44 USD</b>	Net Invoiced
7	Fillable Touch-Up Paint Pen	9959T2	7.98 USD	1 EA	7.98 USD	<b>1 / 7.98 USD</b>	Net Invoiced
8	Roller Floor Applicator	63175T43	23.52 USD	1 EA	23.52 USD	<b>1 / 23.52 USD</b>	Net Invoiced

Line No.	Product Name	Catalog No.	Unit Price	Qty / UOM Ordered	Extended Price	Invoice Qty / Cost	Status
----------	--------------	-------------	------------	-------------------	----------------	--------------------	--------

 Documents > Document Search > [Search Documents](#) ▼ > Invoices - PO 1067187

	1/2" Thick Foam Brush, Packs of 12						Invoiced
10	 2" Wide X 2-1/2" Long X 1/2" Thick Foam Brush, Packs of 12	7754T42	11.11 USD	1 PK	11.11 USD	<b>1 / 11.11 USD</b>	Net Invoiced
11	 Plastic Paint Roller Tray, 1 Gal. Capacity	7818T37	10.35 USD	1 EA	10.35 USD	<b>1 / 10.35 USD</b>	Net Invoiced

## Sherif Stephan

---

**From:** support@sciquest.com  
**Sent:** Wednesday, April 24, 2019 6:02 PM  
**To:** Sherif Stephan  
**Subject:** New Pending Approval for Requisition# 117344701



# RUTGERS MARKETPLACE

## Primary Approver - 824432 - All Dollar Amounts Approval Request for Requisition# 117344701

Dear Sherif Stephan,

The requisition listed below has been submitted for your approval.

### Summary

Folder: Primary Approver - 824432 - All Dollar Amounts  
Prepared by: Shane Mott  
Cart Name: 2019-04-24 smott86 01  
Requisition No.: 117344701  
No. of line items: 11

**TOTAL: 333.30 USD**

### Details

Requisition exceeds 10 lines. You may log into your organization's site to review line details.

### Accounting Codes

#### GL String

Unit:: -  
Division:: -  
Organization:: -  
Location:: -  
Fund Type:: -  
Business Line:: -  
Account:: -  
Activity:: 0000 : None  
RU Initiative:: -

#### Project String

Project ID:: 824432 : US DOT- FHA - DTFH6117D00001L TO# 693JJ318F000303 - 824432  
Task:: 800:824432 : US DOT- FHA - DTFH6117D00001L - 824432  
Expenditure Type:: 53100 : Other Supplies Projects  
Expenditure 29053151920 : 29053151920  
Organization::  
Location:: 2500 : Pisc Busch Campus  
Business Line:: 3100 : Sponsored Organized Research  
Activity:: 0000 : None  
RU Initiative:: 00000



Ready to approve, reject or assign this document to yourself? [Take Action](#)

## Additional Information

### Summary Details

Requestor Name: Shane Mott  
Requestor Phone: 8484452957  
Requestor e-mail: smott86@rutgers.edu  
Business Associate No  
Agreement  
Required?:  
Internal Work Order  
Number:  
Internal Project  
Tracking Number:  
Payment Method  
Override:  
Invoice Payment  
Priority Override:  
IPO Blanket Number:  
Comments: (0)

### Shipping Address

Contact Name Shane Mott  
Room 211  
Ctr. Adv Infrastr & Trans  
100 BRETT RD  
Piscataway, NJ 08854-8058  
United States

[View Requisition Approvals](#)

If you have any questions with regard to reviewing/approving this requisition, please contact your SelectSite Support Team.

Support Team Contact Information:  
+1 848-932-4375  
procure@finance.rutgers.edu

Thank you,  
Rutgers University

Is this email difficult to read? You may choose to receive plain text emails instead by logging into your organization's site and updating your preferred email format on the user identification tab under User Settings in your profile.

Purchase Order Number **1068376 Revision 0 (Closed)**

Available Actions Add Comment ▼

Supplier **McMaster-Carr Supply Company**

**Go**

Status	Purchase Order	Revisions	PO Approvals	Shipments	Receipts	<b>Invoices</b>	Comments	Attachments	History
--------	----------------	-----------	--------------	-----------	----------	-----------------	----------	-------------	---------



### Invoicing Summary



Invoice No	Supplier Invoice Number	Invoice Date	Due Date	Invoice Type	Payment Status	Invoice Total	Invoiced By
<a href="#">2496573</a> 	93271194	4/27/2019	5/27/2019	Invoice	Paid	905.11 USD	System

**Total 905.11 USD**

### Invoice Line Details



Line No.	Product Name	Catalog No.	Unit Price	Qty / UOM Ordered	Extended Price	Invoice Qty / Cost	Status
1	High-Traction Disposable Tyvek Shoe Covers, Packs of 5 Pairs	5583T24	8.71 USD	1 PK	8.71 USD	<b>1 / 8.71 USD</b>	Net Invoiced
2	Ultra-Abrasion-Resistant Protective Coating White, 1 Gal. Can	7829T36	67.06 USD	6 EA	402.36 USD	<b>6 / 402.36 USD</b>	Net Invoiced
3	Ultra-Abrasion-Rst Gray Primer, 1 Gal. Can	7829T12	140.86 USD	3 EA	422.58 USD	<b>3 / 422.58 USD</b>	Net Invoiced
4	High-Traction Disposable Tyvek Boot Covers, Packs of 5 Pairs	5583T21	12.93 USD	1 PK	12.93 USD	<b>1 / 12.93 USD</b>	Net Invoiced

**From:** support@sciquest.com  
**Sent:** Thursday, April 25, 2019 5:36 PM  
**To:** Sherif Stephan  
**Subject:** New Pending Approval for Requisition# 117402237



## RUTGERS MARKETPLACE

### Primary Approver - 824432 - All Dollar Amounts Approval Request for Requisition# 117402237

Dear Sherif Stephan,

The requisition listed below has been submitted for your approval.

#### Summary

Folder: Primary Approver - 824432 - All Dollar Amounts  
Prepared by: Shane Mott  
Cart Name: 2019-04-25 smott86 01  
Requisition No.: 117402237  
No. of line items: 4

**TOTAL: 846.58 USD**

#### Details

##### McMaster-Carr Supply Company

###### Item 1

Description: High-Traction Disposable Tyvek Shoe Covers, Packs of 5 Pairs  
Catalog Number: 5583T24  
Quantity: 1  
Unit Price: 8.71 USD  
Ext. Price: 8.71 USD  
Size/Packaging: PK  
Commodity Code: Facilities: Supplies, Maintenance, Repair, & Services

###### Item 2

Description: Ultra-Abrasion-Resistant Protective Coating White, 1 Gal. Can  
Catalog Number: 7829T36  
Quantity: 6  
Unit Price: 67.06 USD  
Ext. Price: 402.36 USD  
Size/Packaging: EA  
Commodity Code: Facilities: Supplies, Maintenance, Repair, & Services

###### Item 3

Description: Ultra-Abrasion-Rst Gray Primer, 1 Gal. Can  
Catalog Number: 7829T12  
Quantity: 3  
Unit Price: 140.86 USD  
Ext. Price: 422.58 USD

Size/Packaging: EA  
Commodity Code: Facilities: Supplies, Maintenance, Repair, & Services

#### Item 4

Description: High-Traction Disposable Tyvek Boot Covers, Packs of 5 Pairs  
Catalog Number: 5583T21  
Quantity: 1  
Unit Price: 12.93 USD  
Ext. Price: 12.93 USD  
Size/Packaging: PK  
Commodity Code: Facilities: Supplies, Maintenance, Repair, & Services

**TOTAL: 846.58 USD**

### Accounting Codes

#### GL String

Unit:: -  
Division:: -  
Organization:: -  
Location:: -  
Fund Type:: -  
Business Line:: -  
Account:: -  
Activity:: 0000 : None  
RU Initiative:: -

#### Project String

Project ID:: 824432 : US DOT- FHA - DTFH6117D00001L TO# 693JJ318F000303 - 824432  
Task:: 800:824432 : US DOT- FHA - DTFH6117D00001L - 824432  
Expenditure Type:: 53100 : Other Supplies Projects  
Expenditure 29053151920 : 29053151920  
Organization::  
Location:: 2500 : Pisc Busch Campus  
Business Line:: 3100 : Sponsored Organized Research  
Activity:: 0000 : None  
RU Initiative:: 00000

Ready to approve, reject or assign this document to yourself? **Take**  
**Action**

### Additional Information

#### Summary Details

Requestor Name: Shane Mott  
Requestor Phone: 8484452957  
Requestor e-mail: smott86@rutgers.edu  
Business Associate No  
Agreement  
Required?:  
Internal Work Order  
Number:  
Internal Project  
Tracking Number:  
Payment Method  
Override:  
Invoice Payment  
Priority Override:  
IPO Blanket Number:

Comments: (0)

**Shipping Address**

Contact Name Shane Mott  
Room 211  
Ctr. Adv Infrastr & Trans  
100 BRETT RD  
Piscataway, NJ 08854-8058  
United States

[View Requisition Approvals](#)

If you have any questions with regard to reviewing/approving this requisition, please contact your SelectSite Support Team.

Support Team Contact Information:  
+1 848-932-4375  
[procure@finance.rutgers.edu](mailto:procure@finance.rutgers.edu)

Thank you,  
Rutgers University

Is this email difficult to read? You may choose to receive plain text emails instead by logging into your organization's site and updating your preferred email format on the user identification tab under User Settings in your profile.

Purchase Order Number **1071308 Revision 0 (Closed)**

Available Actions Add Comment ▼

Supplier **McMaster-Carr Supply Company**

**Go**

Status	Purchase Order	Revisions	PO Approvals	Shipments	Receipts	<b>Invoices</b>	Comments	Attachments	History
--------	----------------	-----------	--------------	-----------	----------	-----------------	----------	-------------	---------



### Invoicing Summary ?

Invoice No	Supplier Invoice Number	Invoice Date	Due Date	Invoice Type	Payment Status	Invoice Total	Invoiced By
<a href="#">2503918</a> 	93534167	5/1/2019	5/31/2019	Invoice	Paid	59.85 USD	System

**Total 59.85 USD**

### Invoice Line Details ?

Line No.	Product Name	Catalog No.	Unit Price	Qty / UOM Ordered	Extended Price	Invoice Qty / Cost	Status
1	High-Tension Tie Down W/SS Latch Hooks, 1" Wd, 3 ft. Max Lg., Nylon Fabric	31025T621	53.49 USD	1 EA	53.49 USD	<b>1 / 53.49 USD</b>	Net Invoiced

## Sherif Stephan

---

**From:** support@sciquest.com  
**Sent:** Tuesday, April 30, 2019 11:34 AM  
**To:** Sherif Stephan  
**Subject:** New Pending Approval for Requisition# 117541495



# RUTGERS MARKETPLACE

## Primary Approver - 824432 - All Dollar Amounts Approval Request for Requisition# 117541495

Dear Sherif Stephan,

The requisition listed below has been submitted for your approval.

### Summary

Folder: Primary Approver - 824432 - All Dollar Amounts  
Prepared by: Shane Mott  
Cart Name: 2019-04-30 smott86 01  
Requisition No.: 117541495  
No. of line items: 1

**TOTAL: 53.49 USD**

### Details

#### McMaster-Carr Supply Company

##### Item 1

Description: High-Tension Tie Down W/SS Latch Hooks, 1" Wd, 3 ft. Max Lg., Nylon Fabric  
Catalog Number: 31025T621  
Quantity: 1  
Unit Price: 53.49 USD  
Ext. Price: 53.49 USD  
Size/Packaging: EA  
Commodity Code: Facilities: Supplies, Maintenance, Repair, & Services

**TOTAL: 53.49 USD**

### Accounting Codes

#### GL String

Unit:: -  
Division:: -  
Organization:: -  
Location:: -  
Fund Type:: -  
Business Line:: -  
Account:: -  
Activity:: 0000 : None

RU Initiative:: –

### Project String

**Project ID::** 824432 : US DOT- FHA - DTFH6117D00001L TO# 693JJ318F000303 - 824432  
**Task::** 800:824432 : US DOT- FHA - DTFH6117D00001L - 824432  
**Expenditure Type::** 53100 : Other Supplies Projects  
**Expenditure** 29053151920 : 29053151920  
**Organization::**  
**Location::** 2500 : Pisc Busch Campus  
**Business Line::** 3100 : Sponsored Organized Research  
**Activity::** 0000 : None  
**RU Initiative::** 00000

Ready to approve, reject or assign this document to yourself? **Take**  
**Action**

## Additional Information

### Summary Details

**Requestor Name:** Shane Mott  
**Requestor Phone:** 8484452957  
**Requestor e-mail:** smott86@rutgers.edu  
**Business Associate** No  
**Agreement**  
**Required?:**  
**Internal Work Order**  
**Number:**  
**Internal Project**  
**Tracking Number:**  
**Payment Method**  
**Override:**  
**Invoice Payment**  
**Priority Override:**  
**IPO Blanket Number:**  
**Comments:** (0)

### Shipping Address

Contact Name Shane Mott  
Room 211  
Ctr. Adv Infrastr & Trans  
100 BRETT RD  
Piscataway, NJ 08854-8058  
United States

[View Requisition Approvals](#)

If you have any questions with regard to reviewing/approving this requisition, please contact your SelectSite Support Team.

Support Team Contact Information:  
+1 848-932-4375  
procure@finance.rutgers.edu