



U.S. Department
of Transportation
**Federal Highway
Administration**

Georgia Division

July 3, 2014

61 Forsyth Street S.W.
Suite 17T100
Atlanta, Georgia 30303
Phone 404-562-3630
Fax 404-562-2703
Georgia.fhwa@fhwa.dot.gov

In Reply Refer To:
HPE-GA

Keith Golden, P.E. Commissioner
Georgia Department of Transportation
One Georgia Center
600 West Peachtree Street, NW
Atlanta, GA 30308

Dear Commissioner Golden:

We have reviewed the request to use proprietary items on Atherton Square Rehabilitation Project (CS 1107 Mill Street; CS 1322/McNeel Alley & Atherton SQ), PI 0010703, Cobb County – City of Marietta.

FHWA accepts the Certification provided by the City of Marietta, that the following items are essential for the synchronization with existing street improvement projects, aesthetic synchronization to match the visual appearance of existing facilities previously installed in the City and for compatibility with the City of Marietta's Design Guidelines.

- Pine Hall Brick Pavers, model Pathway Full Range
- Reliance Foundry Bollard, model R-7530

Therefore, FHWA finds that it is acceptable to use the above listed items for the purpose of synchronization with existing facilities. This approval is only applicable for use on Federal Project Number 0010(703), PI 0010703, in Cobb County – City of Marietta.

If you have any questions, please contact Alvin Gutierrez, Transportation Engineer, at (404) 562-3632.

Sincerely,

Rodney N. Barry, P.E.
Division Administrator

Cc: Dave Peters, Conceptual Design Group Manager



May 28, 2014

Mr. Rodney Barry – Division Administration
Federal Highway Administration
61 Forsyth Street, Suite 17T100
Atlanta, GA 30277
Attention: Melinda Roberson

Subject: Proprietary Items Usage - PI # 0010703
CS 1107/Mill Street; CS 1322/McNeel Alley & Atherton Sq @ 3 Locations
Cobb County – City of Marietta

Mr. Barry:

Please review the attached request from the City of Marietta for the use of proprietary products on the above project. The Department considers the use of the requested proprietary items to be in compliance with 23 CFR 635.411 for the purposes of synchronization with existing facilities within the City of Marietta.

Should you have any questions or concerns, please contact Dave Peters at 404-631-1738 or Mark Lawing at 404-631-1582.

Sincerely,

A handwritten signature in blue ink, appearing to read "James S. Story".

for: Brent Story, P.E.
State Design Policy Engineer

BAS:drp



May 19, 2014

Ms. Jeanne Kerney
TE Project Manager
Moreland Altobelli Associates, Inc.
2211 Beaver Run Road, Suite 190
Norcross, GA 30071

RE: Use of Proprietary Items for
GDOT CS 1107/Mill ST; CS 1322/MCNeel Alley & Atherton SQ @ 3 Loc., Cobb County
GDOT PI: 0010703

Dear Ms. Kerney,

As per Federal Highway Administration regulation in 23 CFR 635.411(a) 2, proprietary materials, specifications, and processes can be used if their use is essential for synchronization with existing highway facilities. For the City of Marietta's Transportation Enhancement Project, PI# 0010703, the following proprietary items are proposed for use:

Brick Pavers

Manufacturer: Pine Hall
Quantity in Project: 8,350 SF
Total Estimated Cost for Brick Pavers: \$158,650

Model: Pathway Full Range
Color: Flashed Red

Bollard

Manufacturer: Reliance Foundry
Quantity in Project: 3
Total Estimated Cost for Bollards: \$2,258

Model: R-7530

The total estimated costs for materials listed above are based on recent construction bids on similar projects. These costs include materials, labor, tax, and freight.

The estimated total construction cost for the project is \$773,407. The cost of \$160,908 for proprietary items represents 21% of the estimated construction costs.

These products have been installed on previous projects in the City of Marietta. The City stores the pavers and proprietary items for future maintenance. If a new paver is introduced on this project, the City of Marietta will no longer be able to use existing stockpiles for maintenance of streetscape projects. The City would then need to maintain two (2) separate stockpiles. The City of Marietta certifies that the Pine Hall Pathway Full Range paver is essential for logistical synchronization for maintenance purposes.

The fire department prefers this type of bollard for easy access. An acceptable alternate for this type of bollard could not be found. These products will also be used in all future streetscape enhancement projects in the City of Marietta.

On the construction plans, we have exhibited the product information and contact information for each product's manufacturer. We also attached photographs of existing areas with the products in use.

Proprietary Items Request
PI# 0010703, Cobb County
May 19, 2014
Page 2 of 2

I, Charlie Lanz, City Engineer, of the City of Marietta do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), that these proprietary items are essential for synchronization with existing highway facilities. The use of these products are essential for aesthetic synchronization to match the visual appearance of existing facilities previously installed in the city authority and for compatibility with the City of Marietta's Design Guidelines.

The City of Marietta respectfully requests that the use of these proprietary products be approved.

Sincerely,

A handwritten signature in blue ink, appearing to read "Charlie Lanz", written in a cursive style.

Charlie Lanz
City Engineer
City of Marietta

Attachments to include:

- A. Photos of existing brick pavers and bollards.
- B. Manufacturer details for each proprietary item.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS

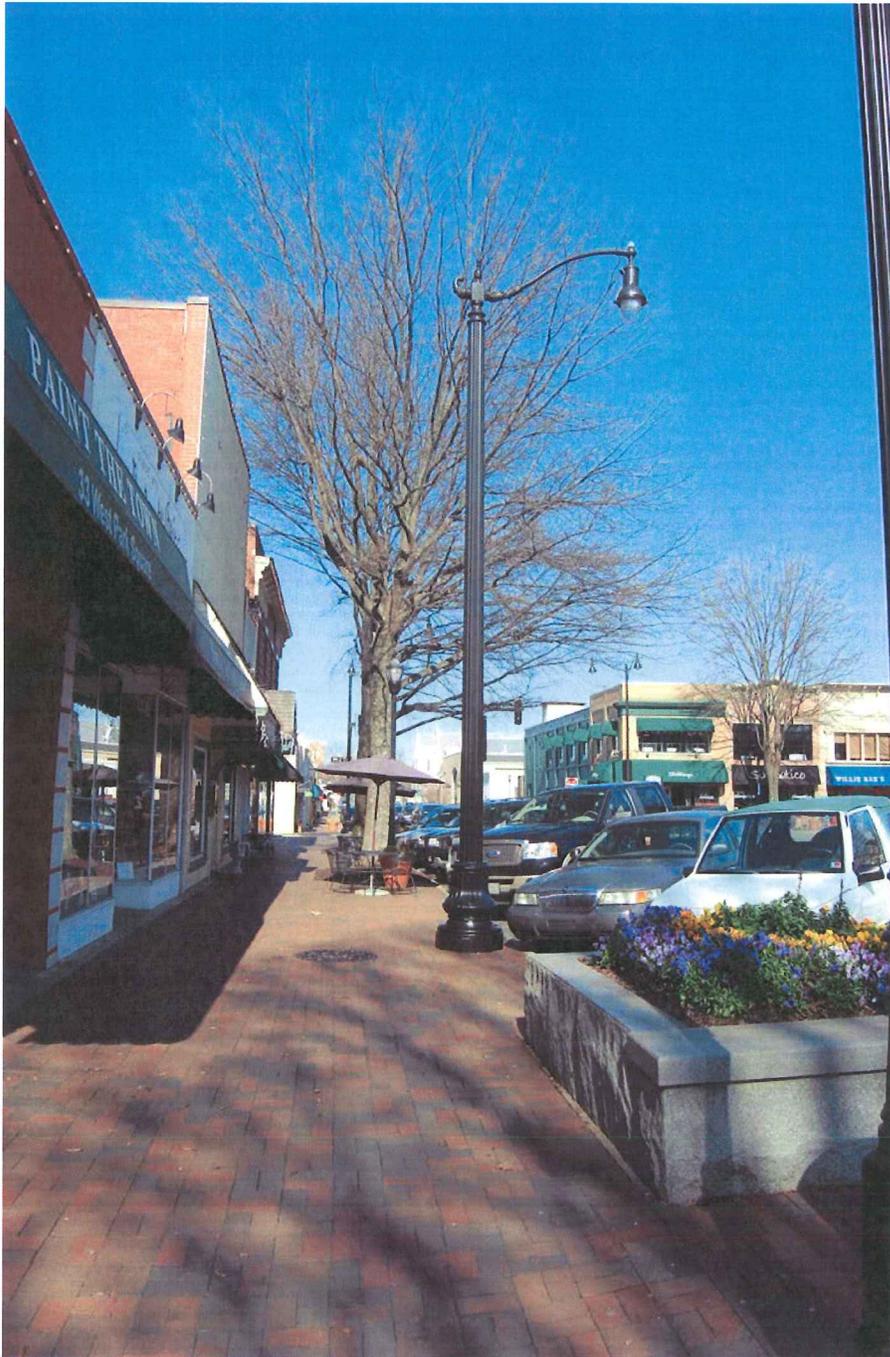
Attachment A -Photographs of brick pavers and bollards within the project corridor.



Mill Street looking toward railroad. Proposed paving on Mill Street ties into this portion of paving.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS



On West Park Square looking toward Mill Street. Photographs of brick pavers and bollards within the project corridor.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS



Intersection of Depot Street and West Park Square looking toward Whitlock Avenue. Bollards in photo.

Photographs of brick pavers and bollards within the project corridor.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS



Paving around the Square

Photographs of brick pavers and bollards within the project corridor.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS



Recent project on Roswell Street.

Photographs of brick pavers and bollards within the project corridor.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
2. CS 1107/Mill St;CS 1322/McNeel
Alley & Atherton Sq @ 3 LOCS



Intersection of McNeel Alley and Whitlock Avenue looking toward railroad.

Photographs of brick pavers and bollards within the project corridor.

**Project constructed with City funds.

1. P.I. 0010703, Cobb County
 2. CS 1107/Mill St;CS 1322/McNeel
 Alley & Atherton Sq @ 3 LOCS



THE NATIONAL BRICK RESEARCH CENTER

100 Clemson Research Blvd.
 Anderson, SC 29625
 (864)656-1095



11/06/2008

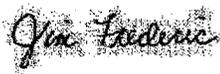
COMPANY INFORMATION	
Name:	Pine Hall Brick Company, Inc P. O. Box 836 634 Lindsay Bridge Road Madison, NC 27025
Plant:	Madison
Sample:	Pathway 4 x 8 Paver
Report #:	PHB-0035
Lot:	Product Code:

	11	12	13	14	15	Average	Test Date
Absorption							
24 Hour Submersion in Cold Water (%)	4.30	3.31	3.87	3.70	4.14	3.86	10/27/2008
5 Hour Submersion in Boiling Water (%)	7.08	6.08	6.68	6.49	7.03	6.67	
Saturation Coefficient (Ratio of 24 H to 5 H)	0.61	0.54	0.58	0.57	0.59	0.58	
Compressive Strength							
psi	11,966	14,830	13,053	14,334	12,663	13,369	10/27/2008
MPa	82.5	102.2	90.0	98.8	87.3	92	
Breaking Load							
(lb/in.)	1,017	918	1,016	986	1,005	988	10/23/2008
Efflorescence							
	11	12	13	14	15		
	Not effloresced		11/06/2008				
Abrasion Resistance							
	1	2	3	4	5	Average	
	0.04	0.02	0.03	0.03	0.03	0.03	11/06/2008

The brick represented by the test results shown here comply with the standards listed below:

ASTM C 1272 - 07 Standard Specification for Heavy Vehicular Paving Brick
 Type: R Application PX

ASTM C 902 - 07 Standard Specification for Pedestrian and Light Traffic Paving Brick
 Class: SX, MX, NX
 Type: I Application PX

CERTIFICATION	
	
Denis Brosnan, Director	Jim Frederic, Associate Director

Lab Reference: 2556

- 1. P.I. 0010703, Cobb County
- 2. CS 1107/Mill St; CS 1322/McNeel Alley & Atherton Sq @ 3 LOCS

Old Paver Series

"Old" Series Pavers feature antique edges and color to offer a rustic appearance. Available in 2 1/4" x 4" x 8".

- Old Towne
- Old Tavern
- Old Mocha
- Old South
- Old Mill

Traditional Edge

- Pathway FR 2 1/4" x 4" x 8"
- Pathway Red 2 1/4" x 4" x 8" (Modular available)
- Cocoa 2 1/4" x 4" x 8"
- Pathway FR 2 1/4" Modular

1. P.I. 0010703, Cobb County
 2. CS 1107/Mill St;CS 1322/McNeel
 Alley & Atherton Sq @ 3 LOCS

Premium Pavers

English Edge®

552475 English Edge® Full Range (Red Flash)
 552478 English Edge® Red
 552477 English Edge® Rose Full Range (Pink Flash)
 552464 English Edge® Autumn (Full Flash)
 552469 English Edge® Dark Accent
 552460 English Edge® Buff
 552465 English Edge® Ironspot
 552453 English Edge® Accent Gray
 552452 English Edge® Cocoa Full Range
 2¼" x 4" x 8" beveled edge pavers with spacer nibs
 Unit wt: 5.5 lbs. Units/cube: 495
 110 square feet per package

English Edge® Heavy Duty

552471 English Edge® Heavy Duty Full Range
 552472 English Edge® Heavy Duty Red
 2¼" x 4" x 8" beveled edge pavers with spacer nibs
 Unit wt: 6.7 lbs. Units/cube: 380
 84 square feet per package

Permeable Pavers

552570 English Edge® StormPave Red 2¼"
 552571 English Edge® StormPaver FR 2¼"
 2¼" x 4" x 8" large spacer nibs with beveled edges
 Unit wt: 5.5 lbs. Units/cube: 495
 110 square feet per package
 552580 English Edge® StormPave Red Heavy Duty
 552581 English Edge® StormPave FR Heavy Duty
 552591 Rumbled® RainPave Red Heavy Duty
 552592 Rumbled® RainPave FR Heavy Duty
 2¼" x 4" x 8" (RainPave: large spacer nibs & round edges)
 Unit wt: 6.7 lbs. Units/cube: 380
 84 square feet per package

Rumbled®

552550 Rumbled® Full Range
 552552 Rumbled® Main Street (Full Range-Some Whites)
 552556 Rumbled® Rose Full Range
 552558 Rumbled® Ironspot
 552554 Rumbled® Red
 2¼" x 4" x 8" tumbled after firing
 Unit wt: 5.5 lbs. Units/cube: 495
 110 square feet per cube

Old Paver Series - Antique Edge

552480 Old Towne (Antique Red Flash)
 552484 Old Tavern (Antique Burgundy Flash)
 552482 Old South (Antique Salmon Flash)
 552440 Old Mill (Gray/Brown)
 552483 Old Mocha (Brown/Tan)
 2¼" x 4" x 8" antique edge pavers with scalloped edges
 Unit wt: 5.6 lbs. Units/cube: 495
 110 square feet per package

Traditional Pavers

552495 Pathway Full Range 4" x 8" (Red Flash)
 552492 Pathway Red 4" x 8"
 552488 Cocoa Full Range 4" x 8" (Chocolate Flash)
 2¼" x 4" x 8" straight edge pavers
 Unit wt: 5.5 lbs. Units/cube: 495
 110 square feet per package

552497 Pathway Full Range Modular (Red Flash)
 552494 Pathway Red Modular
 2¼" x 3¾" x 7¾" straight edge pavers
 Unit wt: 4.8 lbs. Units/cube: 495
 110 square feet per package
 (Assumes mortar joint of ⅜")

Thin Pavers

550314 Brookstown Full Range 4" x 8" (Red Flash)
 550318 Brookstown Red 4" x 8"
 550315 Harbortown Full Range 4" x 8"
 (Chocolate Flash)
 1¾" x 4" x 8" straight edge thin pavers
 Unit wt: 3.4 lbs. Units/cube: 760
 168 square feet per package

550316 Brookstown Full Range Modular (Red Flash)
 550319 Brookstown Red Modular
 550305 Harbortown Full Range Modular
 550320 Carytown Full Range Modular (Pink Flash)
 1¾" x 3¾" x 7¾" straight edge thin pavers
 Unit wt: 3.0 lbs. Units/cube: 760
 168 square feet per package
 (Assumes mortar joint of ⅜")

Courtyard Pavers

652455 Courtyard Harvest 2¼" x 4" x 8"
 652492 Courtyard Red 2¼" x 4" x 8"
 652495 Courtyard Full Range 2¼" x 4" x 8"
 Unit weight: 5.7 lbs. Units/cube: 470
 104 square feet per package

652457 Courtyard Harvest Modular
 652494 Courtyard Red Modular
 652497 Courtyard Full Range Modular
 2¼" x 3¾" x 7¾" straight edge pavers
 Unit weight: 5.1 lbs. Units/cube: 525
 (Assumes mortar joint of ⅜")

All above pavers are 4.5 units per square foot.

1. P.I. 0010703, Cobb County
 2. CS 1107/Mill St; CS 1322/McNeel
 Alley & Atherton Sq @ 3 LOCS

Mount Options & Accessories

Item	Part Number	Description	Material
2	R-7500-AN	Anchor Casting	Ductile Iron (ASTM A536, Grade 65-45-12)
3	INSERT 1	Concrete Insert, 1"	Steel - Plated
4		Concrete Adhesive	Concrete Adhesive
5	7500-E	Chain Eye Loop	Steel - Faged
6	R-7500-CH	Chain, 5/16" (Measured in Feet)	Steel - Plated
7	R-7500-Q	Chain Quick Link	Steel - Plated
8	R-7500	Retractable Mount	Steel
9	R-7000	Retractable/Retractable Mount	Steel
10	Patlock 936	Patlock, marine grade (OPTIONAL)	Brass chrome plated with stainless steel shackles
11	Patlock 835	Patlock (OPTIONAL)	Brass

Item	Part Number	Description	Material	Weight
1	R-7530	Bollard post	Ductile Iron	61 lbs.
1	R-7530-A	Bollard post	Aluminum	52 lbs.

Bollard

Item 11: Set Screw, 3/8" UNC Threads
 Item 13: Polyethylene Plug
 Item 1: 39" height, Ø10 diameter bollard post

5/16" Chain Accessories

Item 5: Bollard Chain Eyes (Powder Coated)
 Item 6: Bollard Chain 5/16" (Powder Coated)
 Item 7: Bollard Chain Quick Link Connector, 5/16" (Powder Coated)

RELIANCE FOUNDRY
 Unit 207, 6450 - 148 Street, Surrey, BC, Canada V3S 7G7
 1-888-735-5580 - sales@reliance-foundry.com
 www.reliance-foundry.com | www.reliance.ca | www.888-parking.ca

Bollard, Model R-7530 / R-7530-A

SCALE: NTS
 DRAWING NUMBER: R-7530 / R-7530-A
 DATE: 11/19/2012