



**CITY OF HOUSTON**  
FINANCE DEPARTMENT  
Strategic Procurement Division

**Annise D. Parker**

Mayor

Lourdes Coss  
Chief Procurement Officer  
P.O. Box 1562  
Houston, Texas 77251-1562

F. 832.393.8755  
<https://purchasing.houstontx.gov>

Date: November 20, 2014

Subject: Letter of Clarification No. 1  
FLEXIBLE BASE MATERIALS

Reference: Invitation to Bid (ITB) No.: S59-S25113

To All Prospective Bidders:

This Letter of Clarification is issued for the following reason:

- To revise the above referenced solicitation as follow:
  1. In Section B, **replace**: "pages 6 and 7 of 21, with attached pages 6 and 7 of 21 marked revised 11/20/14".

This Letter of Clarification will be considered part of the solicitation referenced above. All revisions, responses, and answers incorporated into the Letter of Clarification are collaboratively from both the Strategic Procurement Division and the applicable City Department.

Furthermore, it is the responsibility of each BIDDER to obtain any previous Letter(s) of Clarification associated with this solicitation.

Kenny Chin  
Procurement Specialist  
Strategic Procurement Division  
832-393-8797

  
CDW:DRH:kc

**Council Members:** Brenda Stardig Jerry Davis Ellen R. Cohen Dwight A. Boykins Dave Martin Richard Nguyen Oliver Pennington Edward Gonzalez  
Robert Gallegos Mike Laster Larry V. Green Stephen C. Costello David W. Robinson Michael Kubosh C.O. "Brad" Bradford Jack Christie  
**Controller:** Ronald C. Green

**SECTION B.**

**CITY OF HOUSTON  
TECHNICAL SPECIFICATIONS  
FOR  
FLEXIBLE BASE MATERIALS  
FOR THE  
PUBLIC WORKS & ENGINEERING DEPARTMENT**

**1.0 BIDDER QUALIFICATIONS:**

Bidders must be established dealers in the item quoted and currently have a plant in operation that can produce sufficient stocks to meet City of Houston daily requirements as herein stated.

**2.0 GROUP I, ITEM NO. 1 LIME ROCK 1"**

2.1 The material shall conform to the physical requirements for flexible base materials, Type A, Grade 4, as listed in the Texas Department of Highways and Public Transportation (TXDOT) Standard Specifications, 2004 edition, Item 421 (57 Rock).

2.2 <ftp://ftp.dot.state.tx.us/pub/txdot-info/cmd/cserve/specs/2004/prov/sp247040.pdf>

**3.0 GROUP I, ITEM NO. 2 CEMENT, QUICK SETTING, 3/8" ROCK AGGREGATE**

3.1 The material shall conform to the physical requirements for flexible base materials, Type D, as listed in the Texas Department of Highways and Public Transportation (TXDOT) Standard Specifications, 2004 Item #247.

3.2 <ftp://ftp.dot.state.tx.us/pub/txdot-info/cmd/cserve/specs/2004/prov/sp247040.pdf>

3.3 The aggregate must meet the following minimum specifications in Table 1:

TABLE 1

Product Code	880		
Size:	3/8 x 0		
Product Code:	880		
Product I.D.:	3/8" x #8 Gradation Sieve Size		
0.375 in.	9.5 mm.	Spec % passing	Avg. 97.0
#4	4.8 mm.	Spec % passing	Avg. 40.0
#10	2.4 mm.	Spec % passing	Avg. 6.0
#16	1.2 mm.	Spec % passing	Avg. ***
#40	425 um.	Spec % passing	Avg. 2.0
#50	300 um.	Spec % passing	Avg. ***
#80	180 um.	Spec % passing	Avg. 1.0
Bulk (SSD) Gs	Avg. 2.40	ASTM C 127	
Bulk Gs	Avg. 2.32	ASTM C 127	
Absorption	Avg. 3.7	ASTM C 127	
LA Abrasion		ASTM C 131	
Magnesium Sulfate		ASTM C 88	
Soundness		ASTM C 88	
Liquid Limit	Avg. NP	ASTM D 4318	
Plastic Limit	Avg. NP	ASTM D 4318	
Plastic Index	Avg. NP	ASTM D 4318	
Unit Wt. PcfLoose	77.1	ASTM C 29	
Rodded	86.6	ASTM C 29	

SECTION B. OFFICIAL BID FORM FOR FLEXIBLE BASE MATERIALS FOR PUBLIC WORKS & ENGINEERING DEPARTMENT, CONTINUED:

**4.0 GROUP I, ITEM NO. 3 CRUSHED LIMESTONE MATERIALS**

- 4.1 Type A – Grade 1 of crushed stone produced and graded from oversized quarried aggregate that originates from a single, naturally occurring source. Item #247 No mix.
- 4.2 Texas Department of Highways and Transportation (TXDOT)
- 4.3 TXDOT Tex-101-E - Preparation of Soil and Flexible Base Materials for Testing.
- 4.4 TXDOT Tex-103-E - Determining Moisture Content in Soil Materials
- 4.5 TXDOT Tex-104-E- Determining Liquid Limit of Soils
- 4.6 TXDOT Tex-106-E - Calculating the Plasticity Index of Soils
- 4.7 TXDOT Tex-110-E- Particle Size Analysis of Soils
- 4.8 TXDOT Tex-116-E- Ball Mill Method for Determining the Disintegration of Flexible Base Material
- 4.9 TXDOT Tex-117-E- Triaxial Compression Tests for Disturbed Soils and Base Materials

**5.0 SUBMITTALS**

- 5.1 Submittals shall conform to TXDOT requirements of Section 01330 - Submittals Procedures.
- 5.2 Submit samples for testing of flexible base course to the department requester.
- 5.3 Submit copy of permits, certifications and licenses to the Strategic Purchasing Division (SPD) and department requester.
- 5.4 Submit list of three (3) Texas certified Material Testing Laboratories to SPD and department requester.

**6.0 QUALITY CONTROL**

- 6.1 Tests and analysis of soil materials will be performed in accordance with Tex-101-E, Tex-104-E, Tex 106-E, Tex-116-E and Tex-117-E, under provisions of Section 01454 - Testing Laboratory Services.
- 6.2 The moisture content of the material to be determined in accordance with Tex-103-E for each delivery day and more often if condition warrants.

**7.0 DELIVERY, STORAGE, AND HANDLING**

- 7.1 Provide materials from stockpiles that are protected during storage from contaminants that would be detrimental to the flexible base course.
- 7.2 Load materials from same area of stockpile to maintain uniformity of each successive delivery to the project site.
- 7.3 Materials shall be delivered to the City of Houston at various locations to be announced by the department when order is place.
- 7.4 Delivery times shall be between 7 am – 2 pm Mondays thru Fridays and orders must be fulfilled daily.
- 7.5 Emergency order(s) must be completely fulfilled within 24 hours from receipt of purchase order in placing the order.