



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

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ADDENDUM NO. 2

DATE: April 25, 2019
PROJECT: ITB 19121
STREET MILLING & RESURFACING TERM CONTRACT 2019

OPENING DATE: May 2, 2019

This addendum is hereby incorporated into the Request for Proposal for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~striketrough~~.

1. Answers to written questions:

- Q1:** Pay item No. 110-1-1 Clearing Grubbing
- a. How is the city going to quantify the removal of unsuitable soils and materials?
 - b. The pay item includes the removal of buildings or any other obstructions. Could the city provide more detail on the extent of this work/scope?
- A1:** **a. Clearing and Grubbing is a site specific line item, paid for on a per Acre basis. The City will issue a Work Authorization defining the site(s) and the scope of work, and the contractor will determine the line items and quantities needed and prepare an estimate to do the work. Clearing and Grubbing is further described in Item 2.3 Clearing and Grubbing (110-1-1) on ITB page 86.**
- b. same as above**
- Q2:** Pay item No. 425-1-52 Ditch Bottom Inlet, Type C
Installing forms, reinforcing steel, adding weirs, notches, skimmers etc. can be very costly. Would the city consider creating separate pay items for these?
- A2:** **Item 2.13 Modify Drainage Structure (425-11) covers this issue.**
- Q3:** Pay item No. 425-5-1 Junction Box, Drainage, P-7, Partial
Installing forms, reinforcing steel, adding weirs, notches, skimmers etc can be very costly. Would the city consider creating separate pay items for these?
- A3:** **Item 2.13 Modify Drainage Structure (425-11) covers this issue.**
- Q4:** Pay item No. DB-1 Speed Hump (12'), including Striping
Figure 1 and Figure 2 are not shown below. Can the city provide a detail.
- A4:** **See attached.**

2. The deadline for question pertaining to this addendum and the corresponding bid document is April 29, 2019 at 5:00 PM
3. Attached are revised specifications & bid schedule. Both replace existing sections of the original document. The revised bid schedule must be submitted in order for your bid to be responsive.
4. All other terms and conditions remain the same.

Proposers shall acknowledge receipt of this addendum on Page 8, item 12.

The City of Daytona Beach

Kirk Zimmerman, CPPB
Buyer

Remember to register with the City of Daytona Beach at www.vendorregistry.com to be notified of future bid opportunities with the City. As of 9-30-18 we will no longer be using our current system.

**ITB # 19121: 2019 Streets Resurfacing
REVISED Bid Schedule**

Pay Item No.	Bid Item Description	QTY	Unit	Unit Price	Total
101-1	Mobilization	5	EA	\$	\$
102-1	Maintenance of Traffic	5	EA	\$	\$
110-1-1	Clearing and Grubbing				
	A) 0.100-0.500	0.500	AC	\$	\$
	B) >0.500	0.500	AC	\$	\$
110-4	Removal of Existing Concrete				
	A) 1-500	500	SY	\$	\$
	B) >500	500	SY	\$	\$
120-1	Regular Excavation				
	A) 1-500	500	CY	\$	\$
	B) >500	500	CY	\$	\$
327-70-6	Mill Existing Pavement (1 .5" +/-)				
	A) 1-500	500	SY	\$	\$
	B) >500	500	SY	\$	\$
334-1-12	Superpave Asphaltic Concrete (SP-9.5)				
	A) 1-500	500	TN	\$	\$
	B) >500	500	TN	\$	\$
334-1-12	Superpave Asphaltic Concrete (SP-12.5)				
	A) 1-500	500	TN	\$	\$
	B) >500	500	TN	\$	\$
350-4	Reinforced Cement Concrete Pavement, 6" Thick, 3400 PSI (Reinforcing Bar shall be limited to No. 5 diameter or less)				
	A) 1-100	100	SY	\$	\$
	B) >100	100	SY	\$	\$
425-1-52	Ditch Bottom Inlet, Type C				
	A) 1-5	5	EA	\$	\$
	B) >5	5	EA	\$	\$
425-2-43	Junction Box, Drainage, P-7, Partial				
	A) 1-5	5	EA	\$	\$
	B) >5	5	EA	\$	\$

Item No.	Bid Item Description	QTY	Unit	Unit Price	Total
425-5-1	Adjust Manhole Ring & Cover				
	A) 1-10	10	EA	\$	\$
	B) >10	10	EA	\$	\$
425-6	Water Valve Box Adjust				
	A) 1-10	10	EA	\$	\$
	B) >10	10	EA	\$	\$
425-11	Modify Drainage Structure	5	EA	\$	\$
430-174-118	Pipe Culvert, Optional Material, Round, 18"				
	A) 1-200	200	LF	\$	\$
	B) >200	200	LF	\$	\$
430-174-124	Pipe Culvert, Optional Material, Round, 24"				
	A) 1-200	200	LF	\$	\$
	B) >200	200	LF	\$	\$
520-1-7	Concrete Curb & Gutter, Type E				
	A) 1-50	50	LF	\$	\$
	B) >50	50	LF	\$	\$
520-1-10	Concrete Curb & Gutter, Type F				
	A) 1-50	50	LF	\$	\$
	B) >50	50	LF	\$	\$
520-2-2	Concrete Curb, Type B				
	A) 1-50	50	LF	\$	\$
	B) >50	50	LF	\$	\$
520-2-4	Concrete Curb, Type D				
	A) 1-50	50	LF	\$	\$
	B) >50	50	LF	\$	\$
520-3	Valley Gutter				
	A) 1-50	50	LF	\$	\$
	B) >50	50	LF	\$	\$
522-1	Concrete Sidewalk (4" Thick)				
	A) 1-100	100	SY	\$	\$
	B) >100	100	SY	\$	\$

Item No.	Bid Item Description	QTY	Unit	Unit Price	Total
522-2	Concrete Sidewalk (6" Thick)				
	A) 1-100	100	SY	\$	\$
	B) >100	100	SY	\$	\$
522-2	Concrete Driveways (6" Thick)				
	A) 1-100	100	SY	\$	\$
	B) >100	100	SY	\$	\$
527-2	Detectable Warning Surfaces				
	A) 1-50	50	SF	\$	\$
	B) >50	50	SF	\$	\$
570-1-2	Performance Turf, Sod (Argentine Bahia)				
	A) 1-500	500	SY	\$	\$
	B) >500	500	SY	\$	\$
570-1-2	Performance Turf, Sod (St Augustine, Florotam)				
	A) 1-500	500	SY	\$	\$
	B) >500	500	SY	\$	\$
570-1-2	Performance Turf, Sod (Zoysia Empire)				
	A) 1-500	500	SY	\$	\$
	B) >500	500	SY	\$	\$
660-2-102	Traffic Signal Loop (Type B)	5	AS	\$	\$
660-2-106	Traffic Signal Loop (Type F)	5	AS	\$	\$
706-3	Retro-Reflective Pavement Markers				
	A) 1-50	50	EA	\$	\$
	B) >50	50	EA	\$	\$
710-11-121	Painted Pavt Mark, STD, White, Solid, 6"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
710-11-123	Painted Pavt Mark, STD, White, Solid, 12"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
710-11-124	Painted Pavt Mark, STD, White, Solid, 18"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$

Item No.	Bid Item Description	QTY	Unit	Unit Price	Total
710-11-125	Painted Pavt Mark, STD, White, Solid, 24"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
710-11-221	Painted Pavt Mark, STD, Yellow, Solid, 6"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
710-11-224	Painted Pavt Mark, STD, Yellow, Solid, 18"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
711-11-123	Thermoplastic, STD, White, Solid, 12"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
711-11-124	Thermoplastic, STD, White, Solid, 18"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
711-11-125	Thermoplastic, STD, White, Solid, 24"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
711-11-224	Thermoplastic, STD, Yellow, Solid, 18"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
710-11-170	Directional Arrows (Paint)	5	EA	\$	\$
711-11-170	Directional Arrows (Thermoplastic)	5	EA	\$	\$
710-11-160	School Crossing (Paint)	5	EA	\$	\$
711-11-160	School Crossing (Thermoplastic)	5	EA	\$	\$
710-11-160	R/R Crossing (Paint)	5	EA	\$	\$
711-11-160	R/R Crossing (Thermoplastic)	5	EA	\$	\$
711-16-121	Thermoplastic, STD-OTH, White, Solid, 6"				
	A) 1-500	500	LF	\$	\$
	B) >500	500	LF	\$	\$
711-16-221	Thermoplastic, STD-OTH, Yellow, Solid, 6"				
	A) 1-500	500	LF	\$	\$

Item No.	Bid Item Description	QTY	Unit	Unit Price	Total
	B) >500	500	LF	\$	\$
DB-1	Speed Hump (12'), Including Striping	5	EA	\$	\$
	Total				\$

PART 2 PAY ITEMS

2.1 Mobilization (101-1)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) location basis for Mobilization.

B. Payment

1. The payment shall be full compensation for furnishing equipment, all other labor, mobilization, demobilization, performance and payment bond premiums, insurance, general and administration and other miscellaneous costs, overhead and profit for the project complete except for those costs specifically included in other bid items listed in the Schedule of Bid Items.

2.2 Maintenance of Traffic (102-1)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) location basis for Maintenance of Traffic.

B. Payment

1. The payment shall be full compensation for including but not limited to the construction and maintenance of all essential detour facilities; to provide, install, inspect, and maintain the traffic control and safety devices (including removal of signage and roadway markings, installation of temporary signage and roadway markings) during construction; conduct daily inspections and as well as nighttime inspections of all traffic control devices; all devices found out of compliance shall be rectified immediately, to accommodate adequate facilities for access to all residences and businesses along the project corridor; provide dust control measures and any additional means needed to provide safe movement of vehicular and pedestrian traffic; reconfiguring control devices as needed to facilitate dispatched emergency vehicles. The MOT shall conform to the requirements set forth by the FDOT and the Owner.

2.3 Clearing and Grubbing (110-1-1)

A. Measurement

1. Measurement and payment for Clearing and Grubbing will be made on an ACRE (AC) basis per street location, and the measurement calculated to three decimal places (thousandths).

B. Payment

1. The payment consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, rock and cemented coquina excavation and disposal, excavation and removal of unsuitable soils and unsuitable materials of any nature, buildings or any other obstructions in all areas where excavation is to be done, or where embankments or structures will be constructed. This includes roadway area, ditch area, borrow and material pits, and areas where culverts or pipe lines will be constructed. Also includes shrubs and tree root pruning for required horizontal or vertical clearance, tree removal, tree protection (for any tree that is to remain within 50' of construction activities), and removal of existing fencing and railing.

2.4 Removal of Existing Concrete (110-4)

A. Measurement

1. Measurement for payment shall be measured on a SQUARE YARD (SY) basis for Removal of Existing Concrete.

B. Payment

1. The payment for providing all labor, equipment, and materials required to remove and dispose of existing concrete pavement, concrete sidewalks, slope pavement, ditch pavement and curb and gutter, where required because of construction operations, where the work is NOT included in other operations.

2.5 Regular Excavation (120-1)

A. Measurement

1. Measurement for payment shall be measured on a CUBIC YARD (CY) basis for Regular Excavation.

B. Payment

1. The payment for Regular Excavation may include roadway, pond and ditch excavation and consists of the net volume of material excavated between the original ground line and the finished grading template of the roadway.

2.6 Mill Existing Asphalt Pavement (1 1/2" AVG Depth) (327-70-6)

A. Measurement

1. Measurement for payment shall be measured on a SQUARE YARD (SY) basis for Mill Existing Pavement.

B. Payment

1. The payment for providing all labor, equipment, and materials required to mill the existing asphalt pavement (average 1 ½ inches in depth), providing a suitable surface for the proposed asphalt resurfacing, and to also allow The City of Daytona Beach to receive 200 CY of recycled asphalt at no additional charge to the City. City forces will provide their own dump trucks during the milling operation.

2.7 Superpave Asphaltic Concrete SP-9.5 and/or SP-12.5 (334-1-12)

A. Measurement

1. Measurement for payment shall be the weight of the mixture, in TONS (TN) for Resurfacing with Superpave SP-9.5 and/or SP-12.5.

B. Payment

1. The payment for providing all labor, equipment, and materials required to provide and

place Superpave SP-9.5 and/or SP-12.5 and provide compaction and finishing as specified in the FDOT specifications based on a tonnage basis.

2.8 Reinforced Cement Concrete Pavement (350-4-6)

A. Measurement

1. Measurement for payment shall be measured on a SQUARE YARD (SY) basis for Steel Reinforced Portland Cement Concrete Pavement.

B. Payment

1. The payment for providing all labor, equipment, and materials required to provide and place reinforced cement concrete pavement that is 6" thick, 3,400 PSI.

2.9 Ditch Bottom Inlet, Type C (425-1-521)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Ditch Bottom Inlet, Type C.

B. Payment

1. The payment consists of installing precast or cast-in-place inlet structures. Includes all costs associated with installing forms, reinforcing steel, adding weirs, notches, skimmers, etc.

2.10 Junction Box, Drainage, P-7, Partial (425-2-43)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Junction Box, Drainage, P-7, Partial.

B. Payment

1. The payment consists of installing precast or cast-in-place inlet structures. Includes all costs associated with installing forms, reinforcing steel, adding weirs, notches, skimmers, etc. "Partial" is used when the top of an existing structure is to be modified, but the bottom remains.

2.11 Adjust Manhole Ring and Cover (425-5-1)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Adjusting Manhole Ring and Cover to match finished grade.

B. Payment

1. The payment for providing all labor, equipment, and materials for, including but not limited to, the excavation, dewatering, bricking, grouting, protecting existing connections of neighboring utilities, and backfilling required to raise the ring and cover of each manhole to be flush with the finished grade. Manhole covers in traffic areas will match finished pavement grade and in non-traffic areas will be 6 to 12 inches above ground surface.

2.12 Water Valve Box Adjust (425-6)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Adjusting Water Valve Box to match finished grade.

B. Payment

1. The payment for providing all labor, equipment, and materials for, including but not limited to, the excavation, dewatering, adjustments to valve box, protecting existing connections of neighboring utilities, and backfilling required to raise the top of valve box to finished grade.

2.13 Modify Drainage Structure (425-11)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Modify Drainage Structure.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the modification of a new or existing drainage structure. "Modified" is used when the standard structure (new or existing) is modified by adding weirs, notches, skimmers, and/or a change to dimensions and reinforcement.

2.14 Pipe Culvert, Optional Material, Round, 18" (430-174-118)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Pipe Culvert, Optional Material, Round, 18".

B. Payment

1. The payment includes all costs associated with the installation of the pipe, end treatments, filter fabric jackets, connections to structures, plugs, No. 4 coarse aggregate, trenching, backfilling, compacting, etc.

2.15 Pipe Culvert, Optional Material, Round, 24" (430-174-124)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Pipe Culvert, Optional Material, Round, 24".

B. Payment

1. The payment includes all costs associated with the installation of the pipe, end treatments, filter fabric jackets, connections to structures, plugs, No. 4 coarse aggregate, trenching, backfilling, compacting, etc.

2.16 Concrete Curb & Gutter, Type E (520-1-7)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Concrete Curb & Gutter, Type E.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measured along the face of the curb.

2.17 Concrete Curb & Gutter, Type F (520-1-10)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Concrete Curb & Gutter, Type F.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measured along the face of the curb.

2.18 Concrete Curb, Type B (520-2-2)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Concrete Curb, Type B.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of concrete curb, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. For use next to concrete or flexible pavement. Asphalt curb pad will be included in unit price. Length to be measured along the face of the curb.

2.19 Concrete Curb, Type D (520-2-4)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Concrete Curb, Type D.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of concrete curb, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. For use next to concrete or flexible pavement. Asphalt curb pad will be included in unit price. Length to be measured along the face of the curb.

2.20 Valley Gutter (520-3)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Valley Gutter.

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of concrete curb, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. For use next to concrete or flexible pavement. Asphalt curb pad will be included in unit price. Length to be measured along the face of the curb.

2.21 Concrete Sidewalk (4" Thick) (522-1)

A. Measurement

1. Measurement for payment will be made on a SQUARE YARD (SY) basis for Concrete Sidewalk (4" Thick).

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of plain or reinforced sidewalk. Includes foundation preparation, joint forming (or sawing), placing, finishing and curing.

2.22 Concrete Sidewalk and/or Driveways (6" Thick) (522-2)

A. Measurement

1. Measurement for payment will be made on a SQUARE YARD (SY) basis for Concrete Sidewalk and/or Driveways (6" Thick).

B. Payment

1. The payment for providing all labor, equipment, and materials required for the construction of plain or reinforced sidewalk and driveways. Includes foundation preparation, joint forming (or sawing), placing, finishing and curing.

2.23 Detectable Warning Surfaces (527-2)

A. Measurement

1. Measurement for payment will be made on a SQUARE FOOT (SF) basis for Detectable Warning Surfaces.

B. Payment

1. The payment for providing all labor, equipment, and materials required to provide and place Detectable Warnings applied to walking surfaces (NEW and EXISTING SIDEWALK).

2.24 Performance Turf, Sod (Argentine Bahia, St Augustine Florotam, and Zoysia Empire) (570-1-2)

A. Measurement

1. Measurement for payment will be made on a SQUARE YARD (SY) basis for Performance Turf, Sod.

B. Payment

1. The payment for providing all labor, equipment, and materials required to establish a stand of Argentine Bahia, St Augustine Florotam, and/or Zoysia Empire grass on slopes, shoulders, or other areas by sodding.

2.25 Traffic Signal Loop (Type B) (660-2-102)

A. Measurement

1. Measurement for payment will be made on a per ASSEMBLY (AS) basis for Traffic Signal Loop (Type B).

B. Payment

1. The payment includes furnishing, placement, and testing of all materials and equipment, and for all tools, labor, equipment, hardware, operational software packages and firmware, supplies, support, shop drawings, warranty documentation, and incidentals necessary to complete the work.

2.26 Traffic Signal Loop (Type F) (660-2-106)

A. Measurement

1. Measurement for payment will be made on a per ASSEMBLY (AS) basis for Traffic Signal Loop (Type F).

B. Payment

1. The payment includes furnishing, placement, and testing of all materials and equipment, and for all tools, labor, equipment, hardware, operational software packages and firmware, supplies, support, shop drawings, warranty documentation, and incidentals necessary to complete the work.

2.27 Retro-Reflective Pavement Markers (RPM's) (706-3)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Retro-Reflective Pavement Markers (RPM's).

B. Payment

1. The payment will be for the number of RPMs, furnished and installed, completed and accepted.

2.28 Painted Pavement Marking, STD, White, Solid, 6" (710-11-121)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, White, Solid, 6".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, 2'- 2' dotted, and 2'-4' dotted lines. The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines.

2.29 Painted Pavement Marking, STD, White, Solid, 12" (710-11-123)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, White, Solid, 12".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.30 Painted Pavement Marking, STD, White, Solid, 18" (710-11-124)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, White, Solid, 18".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.31 Painted Pavement Marking, STD, White, Solid, 24" (710-11-125)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, White, Solid, 24".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.32 Painted Pavement Marking, STD, Yellow, Solid, 6" (710-11-221)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, White, Solid, 6".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, 2'- 2' dotted, and 2'-4' dotted lines. The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines.

2.33 Painted Pavement Marking, STD, Yellow, Solid, 18" (710-11-224)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Painted Pavement Marking, STD, Yellow, Solid, 18".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the painted striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.34 Thermoplastic, STD, White, Solid, 12" (711-11-123)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Thermoplastic, STD, White, Solid, 12".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.35 Thermoplastic, STD, White, Solid, 18" (711-11-124)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Thermoplastic, STD, White, Solid, 18".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.36 Thermoplastic, STD, White, Solid, 24" (711-11-125)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Thermoplastic, STD, White, Solid, 24".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.37 Thermoplastic, STD, Yellow, Solid, 18" (711-11-224)

A. Measurement

1. Measurement for payment will be made on a LINEAR FOOT (LF) basis for Thermoplastic, STD, Yellow, Solid, 18".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in linear feet, of transverse lines, diagonal lines, and chevrons.

2.38 Directional Arrows (Paint) (710-11-170)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Directional Arrows (Paint).

B. Payment

1. The payment will include all labor, equipment, and materials required to install the number of painted pavement messages, symbols, and arrows. Each arrow is paid as a complete marking, regardless of the number of "points" or directions.

2.39 Directional Arrows (Thermoplastic) (711-11-170)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Directional Arrows (Thermoplastic).

B. Payment

1. The payment will include all labor, equipment, and materials required to install the number of thermoplastic pavement messages, symbols, and arrows. Each arrow is paid as a complete marking, regardless of the number of "points" or directions.

2.40 Pavement Messages (School Crossing, Railroad Crossing, etc.) (Paint) (710-11-160)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Pavement Messages (School Crossing, Railroad Crossing, etc.) (Paint).

B. Payment

1. The payment will include all labor, equipment, and materials required to install the number of painted pavement messages, symbols, and arrows.

2.41 Pavement Messages (School Crossing, Railroad Crossing, etc.) (Thermoplastic) (711-11-160)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Pavement Messages (School Crossing, Railroad Crossing, etc.) (Thermoplastic).

B. Payment

2. The payment will include all labor, equipment, and materials required to install the number of thermoplastic pavement messages, symbols, and arrows.

2.42 Thermoplastic, STD-OTH, White, Solid, 6" (711-16-121)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Thermoplastic, STD-OTH, White, Solid, 6".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, 2'- 2' dotted, and 2'-4' dotted lines. The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines.

2.43 Thermoplastic, STD-OTH, Yellow, Solid, 6" (711-16-221)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Thermoplastic, STD-OTH, Yellow, Solid, 6".

B. Payment

1. The payment will include all labor, equipment, and materials required to install the thermoplastic striping for the length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, 2'- 2' dotted, and 2'-4' dotted lines. The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines.

2.44 Speed Hump (12'), Including Striping (DB-1)

A. Measurement

1. Measurement for payment will be made on a per EACH (EA) basis for Speed Hump (12'), Including Striping.

B. Payment

1. The payment for providing all labor, equipment, and materials required to construct and stripe the speed hump as per Figure 1 and Figure 2 below.

END OF SECTION

Figure 1

SPEED HUMP SPECIFICATIONS

Important: Speed Humps to be 3" in height to provide maximum effectiveness while not being overly restrictive to emergency police and fire vehicles.

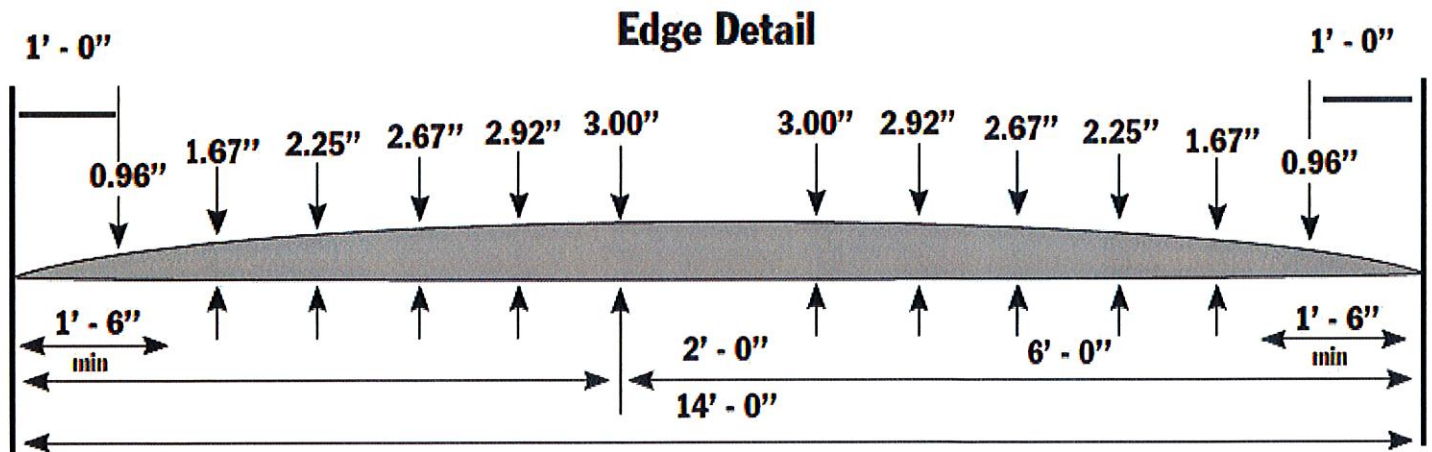
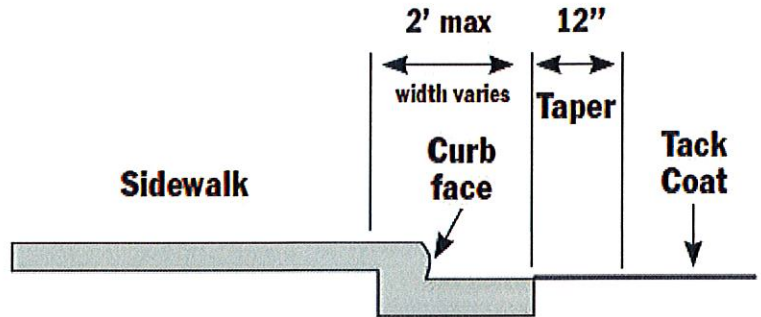
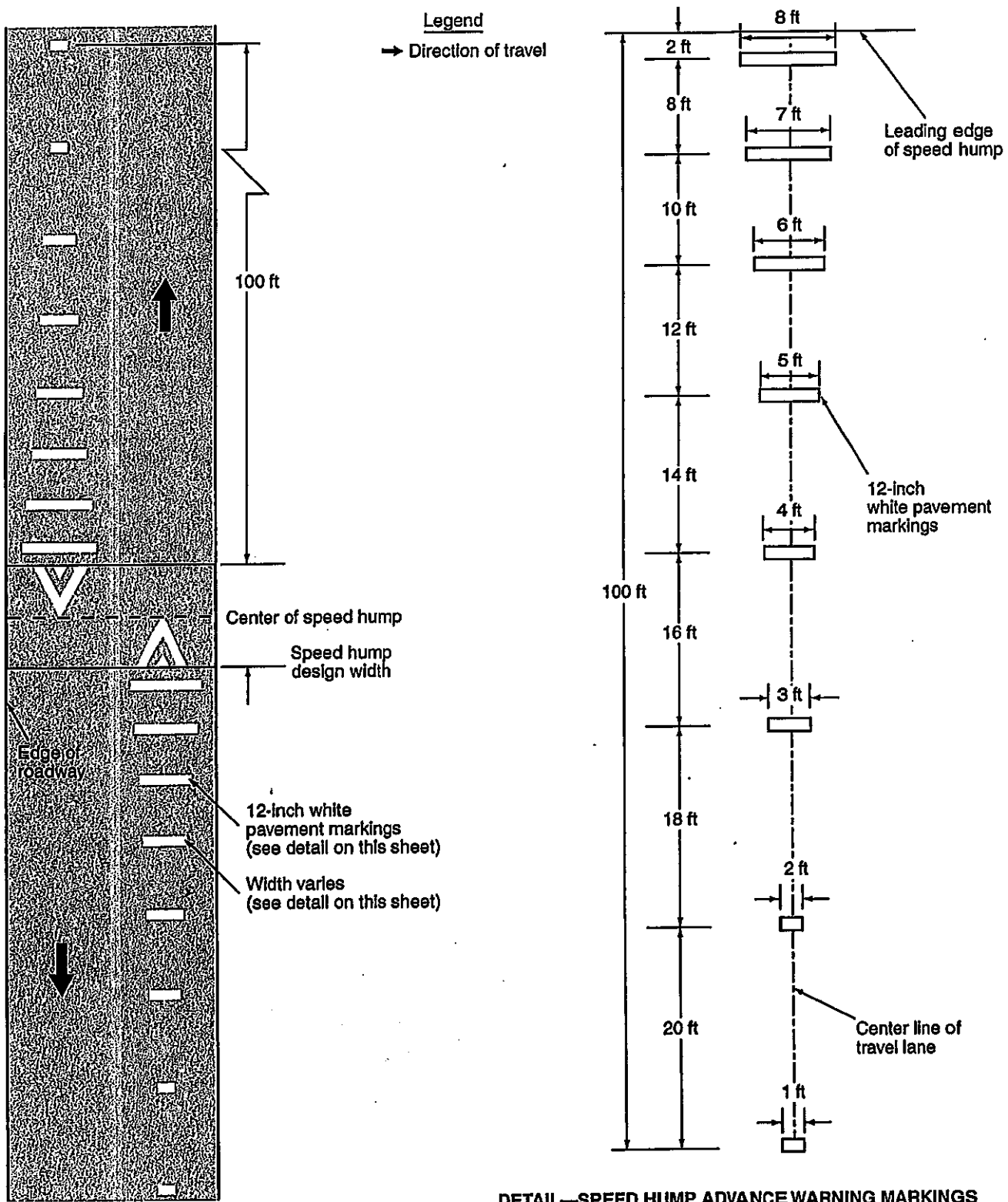


Figure 2 Advance Warning Markings for Speed Humps



DETAIL—SPEED HUMP ADVANCE WARNING MARKINGS