



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 14, 2022

SUBJECT FAP Route 352 (IL 137)
Project NHPP-EDT0(503)
Section 2020-090-RS&SW
Lake County
Contract No. 62L68
Item No. 3, April 29, 2022 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised the Schedule of Prices.
2. Revised page iii of the Table of Contents to the Special Provisions.
3. Added pages 142-144 to the Special Provisions.
4. Revised sheets 4 & 9 of the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read "Jack A. Elston".

Jack A. Elston, P.E.
Bureau Chief, Design and Environment

MTS

WORK ZONE TRAFFIC CONTROL DEVICES (BDE) 139
WORKING DAYS (BDE) 141
DETECTABLE WARNINGS (SPECIAL) 142

Revised 4/14/2022

DETECTABLE WARNINGS (SPECIAL)

CITY OF WAUKEGAN SPECIFICATION UPDATE DETECTABLE WARNING - GALVANIZED STEEL

QUALITY ASSURANCE

- A. Provide tactile tiles and accessories as produced by a single manufacturer, including fasteners.

PERFORMANCE STANDARDS

- B. Americans with Disabilities Act (ADA) Equivalent Facilitation: Provide tactile warning surfaces which comply with the detectable warnings on walking surfaces section of the Americans with Disabilities Act (Title 49 CFR TRANSPORTATION, Part 37.9 STANDARDS FOR ACCESSIBLE TRANSPORTATION FACILITIES, Appendix A, Section 4.29.2 DETECTABLE WARNINGS ON WALKING SURFACES).
- C. Dome Size: The truncated domes shall have a base diameter of 0.9 in (23 mm) minimum and 1.4 in (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum and 65 percent of the base diameter maximum, and a height of 0.2 in (5 mm).
- D. Dome Spacing: The truncated domes shall have a center-to-center spacing of 1.6 in (41 mm) minimum and 2.4 in (61 mm) maximum, and a base-to-base spacing of 0.65 in (17 mm) minimum, measured between the most adjacent domes.
- E. Tile Size: Detectable warning surfaces shall extend 2.0 ft (610 mm) minimum in the direction of pedestrian travel. At curb ramps and blended transitions, detectable warning surfaces shall extend the full width of the ramp run (excluding any flared sides), blended transition, or turning space. At pedestrian at-grade rail crossings not located within a street or highway, detectable warnings shall extend the full width of the crossing.
- F. Contrast: Detectable warning surfaces shall contrast visually with adjacent gutter, street or highway, or pedestrian access route surface, either light-on-dark or dark-on-light.

Added 4/14/2022

MATERIALS

G. Tactile Warning Surface

- 1) Galvanized Steel: ASTM A653, 10 gauge galvanized steel, G90.
- 2) Color: Federal Standard Safety Yellow #33538.
- 3) Slip Resistance: When tested by ASTM C1028, the combined wet/dry static coefficient of friction shall be not less than 0.80.
- 4) Compressive Strength: When tested by ASTM D695 the compressive yield strength shall be not less than 45,000 psi.
- 5) Impact Test: When tested by ASTM D5420 the initial indentation shall be created at or above 25 in-lbs. A failure is noted if a hairline fracture is visible in the specimen.
- 6) Tensile Strength: When tested by ASTM A370 the stress at yield (offset) shall be not less than 41,500 psi.
- 7) Bond Strength: When tested by ASTM D4541 the average bond strength shall be not less than 1,800 psi.
- 8) Abrasive Wear of Tile: When tested ASTM C501 when mounted to the spindle of Taber Abraser and subjecting the specimen to 1,000 revolutions under CS-17 abrasive wheels and a 1,000g load. The average wear depth shall not exceed 0.150 inches.
- 9) Color Analysis and Reflectance: When tested by ASTM E1347/D1729 the specimen shall pass the visual inspection in dry conditions using a spectrophotometer. With a standard observation angle at 2° with a Type C illuminant and the sample evaluated in five random areas evenly distributed over the surface.

H. Fasteners

- 1) Provide and install fasteners as recommended by manufacturer for the substrate.

I. Sealant

- 1) Provide sealant at joints as recommended by manufacturer.

Added 4/14/2022

SUBMITTALS

- J. The product or method used for installing detectable warnings shall come with the following documents which shall be given to the Engineer prior to use.
 - (a) Manufacturer's certification stating the product is fully compliant with accessibility standards.
 - (b) Manufacturer's five-year warranty.
 - (c) Manufacturer's specifications stating the required materials, equipment, and installation procedures.

The materials, equipment, and installation procedures used shall be according to the manufacturer's specifications.

Added 4/14/2022