COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

Reference No. 2722-05

Materials Laboratory
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222

PART 1: Completed by Product Representative
PART 2: Completed by CDOT Product Evaluation Coordinator
PART 3: Completed by CDOT Expert Product Evaluator
PART 4: Completed by CDOT Materials Engineer

PART 1

Product name: Helipost

Product category: M & S Standards\Miscellaneous\Foundation

Product representative (name & address):
Secure Piers, LLC {Aaron Fodge}
215 West Magnolia
Fort Collins, CO 80521
Phone: (970) 472-6255 FAX: (970) 472-6256

Manufacturer (name & address):
(Licensed through multiple manufacturers - list available from the Product representative.)
Phone: (970) 472-6255 FAX: (970) 472-6255

Description of product, (be precise, include product differentiation between your products &/or competitor's products):
The Helipost (helical post fourndation) is comprised of a variable length, large diameter steel casing encircling one helical bearing plate mounted to a centrally-located, extra strong, steel pipe shaft. The steel pipe extends beyond the bottom of the casing a distance of typically three feet. As such, the lead pipe acts as a guide to maintain plumbness during installation and also provides overturning resistance. The top of the casing and upper end of the central shaft are welded to a heavy-duty bracket plate with slotted bolt-hole pattern. The entire foundation is screwed into the ground to a depth at which the heavy duty bracket is positioned slightly below the ground surface. The bracket plate accomodates attachment of various sound barrier posts, lightposts, and highway signs.

Usage of product, (be specific to CDOT highway activities only):
Foundation for sound barriers, highway signs, high-mast lightposts and ITS.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Installs in 3-5 minutes after setup. Supports up to 4 tons of axial load in most soils. Same-day instant foundation (eliminates concrete curing delays); reduces traffic control costs; torque reading validates soil report; easy removal/installation; simple on-site lateral load testing; reduces labor and insurance costs; eliminates drill spoil removal.

Specifications, (identify specifically those applicable) **& Certificate of Compliance** (submittal required):

- ☒ CDOT : M & S Standards: M-613-1 (Sheet 2 of 3); CDOT Standard Specifications: Section 613.04
- ☒ ASTM : A 153
- ☐ AASHTO:
- ☐ FHWA :
- ☐ other :

Product testing, (national/independent laboratories) **& Certified Test Report** (submittal required):

- ☐ NTPEP-AASHTO:
- ☐ HITEC or FHWA :
- ☐ FHWA or other :
- ☐ other :

State DOT Approvals, (current documentation required):
Iowa, Maine, Washington, Wisconsin

Evaluation Procedure, (recommended):
Lateral Load Test.

Sample submitted: ☐ yes ☒ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☐ yes ☐ no ☒ n/a

Notes/Additional Comments
A torque-meter can be attached to the torque motor to verify the torque required to screw the Helipost into the identified soil conditions. Secure Piers, LLC has created an installation torque chart that corresponds with the soil type and blow count. When the torque reading is matched with the soil chart, the soil borings are validated.

Manufacturer's Web-site address: www.SecurePiers.com

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