

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDER MAY EITHER DOWNLOAD THE BID FROM THE AUTHORITY'S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW FOR RECORD KEEPING PURPOSES. WE REQUEST THAT THE BIDDER COMPLETE THIS FORM AND RETURN TO US, EVEN WHEN BIDDER IS DOWNLOADING THE BID. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS / SERVICES YOU WILL RECEIVE.

**THE NEW JERSEY TURNPIKE AUTHORITY
PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

New Jersey Turnpike Administrative Offices

P.O. Box 5042

581 Main Street

Woodbridge, New Jersey 07095-5042

Tel. - 732-750-5300 Fax - 732-750-5399

TITLE: **DELINEATOR POSTS**

BID NO: **R-97427 & R-97429**

DUE DATE: **1/24/2013**

TIME: **2:00 PM**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO.

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

FAX NO

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

New Jersey Turnpike Administrative Offices
P.O. Box 5042
581 Main Street
Woodbridge, New Jersey 07095-5042
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INVITATION TO BID

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FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

FAX NO.

BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

OTHER (SPECIFY): _____

BIDDER GUIDELINES/CHECKLIST

PURSUANT TO N.J.S.A. 27:23-6.1 AND N.J.A.C. 19:9-2.1 et seq. BID PROPOSALS WHICH FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. Bid proposals must be received at or before the public opening time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Telephone or Facsimile proposals will not be accepted. The accompanying self-addressed envelope should contain or be attached to the bid proposal.
2. The bid proposal must include all price information. Proposal prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All bid proposal prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the bidder.
5. The bidder must attend the mandatory site inspection at the following date(s) and time(s) if applicable:
6. **See the Authority's Instructions to Bidders for a complete list of the Authority's standard contract Terms and Conditions, as well as REQUIRED FORMS that must be included with the bid proposal or the bid will be rejected. (SEE ATTACHED)**

Have you included the following documents?

- (a) State of New Jersey Division of Revenue Business Registration Certificate(s)
 - (b) Certification of Registration with the Secretary of State (only if a foreign (non-NJ) corporation)
 - (c) Acknowledgement of Requirement for Disclosure of Political Contributions (ELEC)
 - (d) Public Works Contractor Registration Certificate(s) (if applicable)
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302
 - (f) Signed Mandatory Equal Employment Opportunity Language
 - (g) SBE/WBE/MBE Certificates and Form
 - (h) Vendor Disclosure Form (EO129 - Location of Services)
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c.159)
 - (j) Automobile Waiver
 - (k) Insurance Requirement
7. **This Request for Bids requires the following Mandatory Documents or the bid will be rejected:**
- Bid Bond and/or Letter of Surety, Cashier's Check Requirement
Stockholder/Partnership Disclosure Statement
8. Bidder must sign the Bid
 9. Contract Bond Requirement (If awarded)

REQUEST FOR BIDS
THIS IS NOT AN ORDER

DATE OF REQUEST: JANUARY 10, 2013

Sealed Bids R-97427 & R-97429 will be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main St., Woodbridge, New Jersey, as stated on the cover page at which time and place said proposal will be publicly opened and read. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of their Public Bids. Please be advised that using overnight / next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any bid not being received by the required date and time.

INTENTION

It is the intention of the Authority to issue a Purchase Order for the procurement of **DELINEATOR POSTS**. Items purchased under this Agreement will be delivered as directed by the Authority. The term of the contract shall be for one year with the option to extend for two additional one-year terms at the Authority's discretion and Vendor's concurrence. Please contact Christine Noble with any questions regarding this procurement contract at 732-750-5300 X 8623 or noble@turnpike.state.nj.us.

BID SHEET INSTRUCTIONS

Prospective Bidders should follow all instructions in this Request for Bids and in the standard Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this Request for Bids (collectively, "Bid Documents"). Prospective Bidders must examine the Bid Documents carefully before bidding and must ask the Director of Purchasing in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. Any written request for interpretation or correction shall be directed to the Director of Purchasing. Written requests can be submitted by FAX at 732-750-5399. If necessary, an interpretation or correction shall be issued by the Director of Purchasing as an Addendum and FAXED to prospective Bidders who have obtained the Bid Documents. Upon the issuing of an Addendum, the content of the Addendum shall become part of the Bid Documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the bid opening date.**

Only written interpretations or corrections issued by the Director of Purchasing by Addendum shall be binding.

The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of Purchasing of the existence of an ambiguity, inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the interpretation of such ambiguity or inconsistency.

All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the bidder. Bids containing any conditions, omissions, erasures, alterations, or items not called for in this Request for Bids, or irregularities of any kind, may be rejected by the Authority, in its sole discretion, as being incomplete. The bidders shall not attach conditions, limitations or provisos to their Bid, except in cases where "Exceptions" are permitted.

The Authority will accept Approved Equivalent items on this bid. If a bidder is basing the proposal on items other than what is specified, and wishes the items he proposes to be considered as an "Approved Equivalent," the Bidder shall enter a price on the bid sheet then submit on the Exception Sheet in the exact format of the line item on the Request for Bids contained herein, the item number, an item description, including manufacturers name, model number, and packaging quantities of those Items which the Bidder proposes to substitute.

Bidders must supply a price for every item listed. Bids not having a price in all listed items may be rejected. The bid will be awarded to the vendor who supplies the lowest total cost for ALL items as listed in the bid.

Bidders must quote only one price per line item. If a bidder quotes multiple prices per line item, the bid proposal may be rejected.

The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases to line item quantities. All items are to be bid FOB Destination. All shipping, handling, and other costs should be considered in the bid price.

Award will be made to the lowest, responsible bidder for the total items bid.

REQUEST FOR BIDS

MATERIAL AND SERVICE DESCRIPTION

200 MOUNT LAUREL RD, MOUNT LAUREL, NJ

ITEM	QTY	UNIT OF MEAS	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
1	500	EA	Post, Delineator-Flex 48" Yellow (Pexco 8GM348YELUR104) or approved equivalent. See attached specifications.	\$	\$
2	500	EA	Pin, Quick Rel-Flex Delineator GS300 (Pexco 800HDWE101) or approved equivalent. See attached specifications.	\$	\$
3	500	EA	Anchor, 18"-Flex Delineator GS300 (Pexco 86MANCHOR18) or approved equivalent. See attached specifications.	\$	\$

14 PORT STREET, NEWARK, NJ

ITEM	QTY	UNIT OF MEAS	DESCRIPTION	UNIT PRICE	TOTAL DOLLAR AMOUNT
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2	500	EA	Pin, Quick Rel-Flex Delineator GS300 (Pexco 800HDWE101) or approved equivalent. See attached specifications.	\$	\$
3	500	EA	Anchor, 18"-Flex Delineator GS300 (Pexco 86MANCHOR18) or approved equivalent. See attached specifications.	\$	\$
4	250	EA	Post, Delineator –City 42" Orange (Pexco 8CP42ORG100) or approved equivalent. See attached specifications.	\$	\$
5	250	EA	Cup, Anchor-Flex Delineator City (Pexco 800BASE211) or approved equivalent. See attached specifications.	\$	\$
6	250	EA	Plug, Rubber-Flex Delineator City (Pexco 800BASE212) or approved equivalent. See attached specifications.	\$	\$

7	250	EA	Plug, Rubber-Flex Delineator City (Pexco 800BASE212) or approved equivalent. See attached specifications.	\$	\$
8	250	EA	Epoxy (B)-Flex Delineator City 3pk (Pexco: Epoxy B) or approved equivalent. See attached specifications.	\$	\$
9	250	EA	High Intensity Wrap-Flex Delineator City Post (Pexco: 3M White) or approved equivalent. See attached specifications.	\$	\$

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE BID OPENING

DELIVERY DATE _____, to sites as specified in the bid specifications.
Discount Terms Based On Net 30 Days Only.

NEW JERSEY TURNPIKE AUTHORITY

AUTHORIZED SIGNATURE

_____/_____

Name of Company and / Authorized Signature of Bidder

SIGNATURE PAGE

ADDENDA / INQUIRIES: COMPLETE (if applicable) BEFORE SUBMITTING BID:

Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum / Inquiries # _____ dated _____ is hereby acknowledged.

CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

BID IRREVOCABLE: This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this bid except in those instances where an unsuccessful bidder has filed a Protest pursuant to N.J.A.C. 19:9-2.12. Upon notification of a Protest, Bidders are required to hold their prices for an additional 90 days. All bidders will be notified in writing of the action taken by the Authority.

OFFER/CERTIFICATION: The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this bid with full authority so to do; and that all statements contained in this bid and in this certification are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

AUTHORIZED SIGNATURE: _____

Print Name and Title: _____

Bidding Entity: _____

Address: _____

City, State, Zip: _____

Telephone #: _____ Fax: _____

Date: # _____

NEW JERSEY TURNPIKE AUTHORITY

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-97427 & R-97429

PROPOSAL TITLE: DELINEATOR POSTS

If you do not choose to respond to this Bid, please complete the form below:

Name of Company_____

Reason you did not respond (Check all that apply)

- Cannot supply product or service
- Cannot meet technical specifications
- Cannot meet delivery specifications
- Cannot meet legal requirements
(i.e. bid/performance/security/insurance, etc.)
- Cannot provide a competitive price at this time
- Interested in receiving specifications for informational purposes only.
- Insufficient lead time to respond
- Other:(please be specific)

Do you wish to remain on our mailing list?

Yes No

Additional comments: _____

Signed :(optional)_____

Company:_____

**CERTIFICATION AND REQUEST FOR WAIVER
OF THE COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE REQUIREMENT**

Purchase Requisition # R-97427 & R-97429

I hereby request an exemption from the New Jersey Turnpike Authority's Comprehensive Automobile Liability Insurance policy for the above reference Purchase Requisition. I certify that if the company referenced below (hereinafter, "the Company") is the successful low bidder the Company will utilize a recognized, commercial third party shipper (i.e. UPS, Federal Express, DHL, U.S. Postal Service, Air Borne Express, etc..) to deliver all Goods to the New Jersey Turnpike Authority. By signing this certification, a representation is made that no vehicle either owned, rented or leased by the Company will be used for the delivery of any goods to the New Jersey Turnpike Authority, and that, any delivery made will be restricted to the use of third parties providing package delivery service in the ordinary course of business. Accordingly, a waiver of Comprehensive Automobile Liability Insurance is hereby requested.

The Company (insert name of Company)

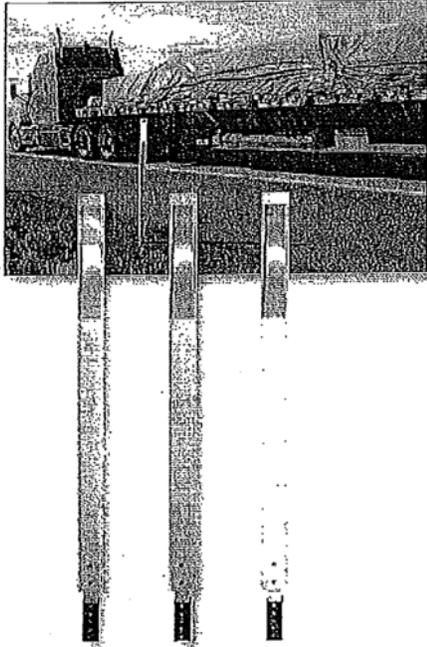
By: _____
(print and sign name)

Title

Date

\$2MM WAIVER

FG 300 Ground Mount Delineator Posts



New Product!

FG 300 Ground-Mount Delineator Posts

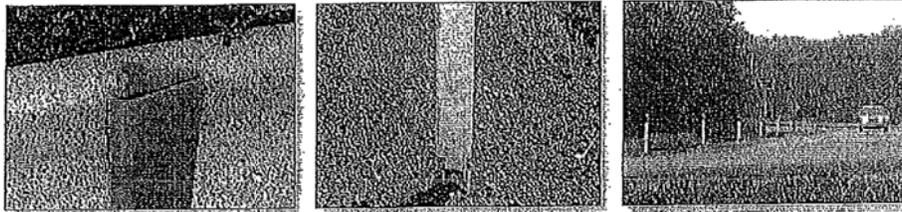
In all kinds of weather, Flexi-Guide posts are highly visible, both day and night. They clearly delineate the edge of the roadway with bright reflective sheeting mounted on the posts at the driver's eye level.

To reduce the risk of fatal accidents, Flexi-Guide posts can be placed at critical points along the roadway, winding curves, near intersections, on and off ramps and to identify safety hazards in general.

The unique polyurethane coupler connecting the upright tubular post to the steel anchor, can take tremendous impacts and still keep the post upright and functional. It has been proven to withstand multiple high speed impacts on the NTEP US National Test Deck.

The clove-leaf design of the FG 300 provides far better rebound than simple round tubes. Curving the insides of the tube changes the moment of inertia and builds up tremendous potential energy, resulting in a quick and sharp rebound when impacted.

Combine the geometry of the FG 300 with polyurethane, the toughest flexible engineering polymer, and the result is a delineator post that sets new standards of performance.

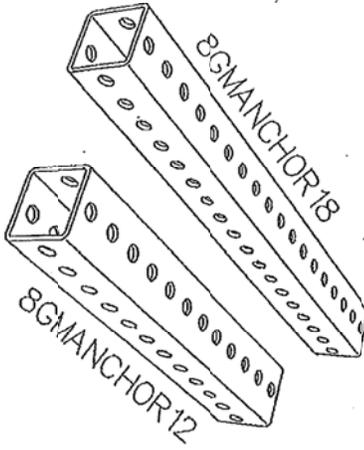
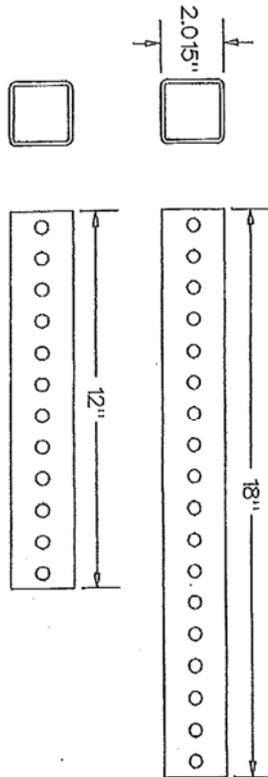


Benefits of FG 300 Ground-Mount

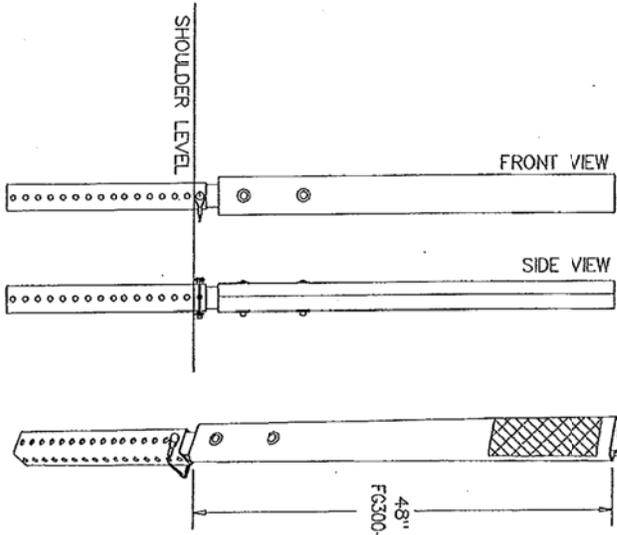
- Durable. The upright post is the incredibly tough FG 300!
- Practical. 2-part system uses a permanent anchor and replaceable upright post
- Easy to install. Can be driven by hand or with a machine using common tools
- Convenient. Anchor is a commonly used 2" square FSST sleeve
- Simple. Single pin allows for quick and easy replacement of damaged posts

NOTES:

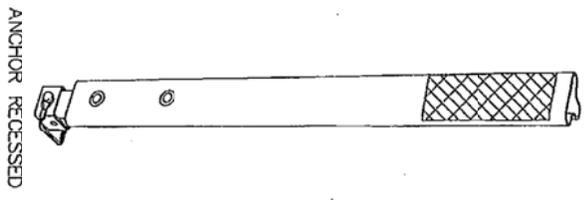
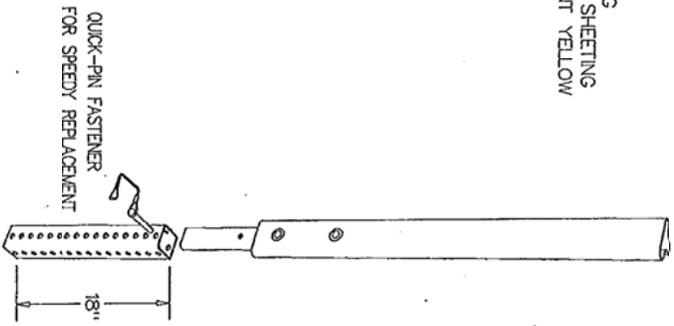
12-GAUGE STEEL



CUT LENGTH	12" & 18" +/- .125"	THE WALL	.100" REF
SCALE	DNS.		
DATE	11/12/2010		
DRAWN BY	DB- <i>[Signature]</i>		
CHECKED BY	<i>[Signature]</i>		
WHAT WILL YOU MAKE TODAY?	PEXCO 3110 70th Avenue East Tacoma, WA 98424 Tel: 253-284-8000 Fax: 253-284-8094 www.pexco.com		
PART NAME	GROUND MOUNT STEEL ANCHORS		
PART NO.	8GMANCHOR12 & 18		
DE NUMBER	7194		



3" x 12" DG
REFLECTIVE SHEETING
FLUORESCENT YELLOW



PART NAME
FG300 DRIVEABLE FLEXIBLE DELINEATOR

DEPT. HEAD ENGINEERING MANAGER DATE

Davidson Traffic Control Products
"Creating Products to Save Lives"
www.davidsontraffic.com
hwy@sales.pexco.com

This drawing and other Davidson products are available in AutoCAD format with source data and other features to transfer product information directly into design drawings. Davidson's Product CD works with all software packages, and the CD library does for field transfer of files across all OS platforms. To register for your free copy, please contact your Davidson Sales Representative or email: hwy@sales.pexco.com.

AutoCAD CD Available

DATE	08/12/2011	DESIGN BY	DB~	USER TEST	B 03/26/12
PEXCO	7194	PEXCO NUMBER	8008GM		
PEXCO PEXCO TRAFFIC CONTROL PRODUCTS 3240 79th Ave, East Tacoma, WA 98562 Phone: (253)244-8000 Fax: (253)244-8004 www.pexco.com		PEXCO PEXCO TRAFFIC CONTROL PRODUCTS 3240 79th Ave, East Tacoma, WA 98562 Phone: (253)244-8000 Fax: (253)244-8004 www.pexco.com			



**Davidson FG 300 Ground Mount Post
Material Specifications**

1) **Design**

The design of the FG300 Ground Mount incorporates 4 separate components all working in conjunction with each other, they are the Delineator Tube, the FG30 Ground Anchor Insert, Reaction Rod and PSST Steel Ground Anchor.

Delineator Tube:

The channelizer post shall consist of a modified T-shaped tubular post a minimum of 3.00 inches wide by 2.00 inches deep, with 0.125 inch (min.) walls, comprised of flat front and curved rear surfaces and sides to create areas of opposing compression stresses on the inner and outer walls when impacted resulting in superior rebound. All channelizer posts shall be capable of sustaining a minimum of ten (10) direct wheel-over impacts at 60 MPH (100 KPH) without damage to the post or the reflective sheeting applied to the post. All posts shall be easily replaceable. All posts shall be constructed of UV-stabilized thermo-plastic low-density polyethylene (LDPE); conforming to the following material specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 1505	0.925
Hardness (min.)	D 2240	47 D
Tensile Strength @ break, (min PSI)	D 638	2200
Tensile Elongation @ break (min. %)	D 638	300
Dart Impact @ 23 degrees C, grams	D 1709	170
Cold Temp. Impact Test (-7° F)	FL/DOT	Pass

FG30 Ground Anchor Insert

The ground anchor insert is identical in shape to the FG300 with a T style shape and form although considerably smaller. The critical dimensions of the FG30 are sized to fit snugly within a 2" 12 gauge PSST steel pipe, contacting the face, end edges and back lobe to prevent spinning with the tube.

This is fastened to the FG300 with two mechanical fasteners and also contains a Reaction Rod. Both conforming to the following specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 792	1.10
Hardness (min.)	D 2240	90 A
Tear Strength (min lb/in.)	D 624, Die C	800
Tensile Strength @ yield, (min PSI)	D 412	4,000
Tensile Elongation @ break (min. %)	D 412	450



Reaction Rod

The RR is a solid .75" diameter thermoplastic rod that provides two functions with the assembly; first being providing a backbone to the assembly so the fasteners can bind without crushing and deforming the structure and second to aide in the rebound of the assembly when impacted.

2) Ground Anchor

The ground anchor is Telspar 2" square tubular 12 gauge steel or equivalent. The length of the anchor is recommended to be a minimum of 18" with roughly 17" buried in the ground so that one hole is visible for affixing the post to the anchor.

3) Florescent and Standard Colors

Channelizer posts and bases shall be constructed of UV-stabilized polymers and colors. The color shall be solid throughout and stabilized to resist UV degradation.

4) Locking Pins

The channelizer posts shall be secured to the ground anchor with either quick release pins that can be supplied by Davidson Traffic Control Products or with a 3/8" bolt assembly provided by the customer.

5) Reflective Sheeting

All posts shall have retro-reflective sheeting applied. The minimum reflective sheeting shall be two (2) 3-inch wide wraps of sheeting the same color as the post applied one (1) inch down from the top of the post with a three (3) inch gap between wraps. The reflective sheeting shall be at minimum ASTM D 4956 Type III 3M[®] High Intensity reflective sheeting. Other approved or required reflective sheetings may be used as required by the QPL or APL of the State or Municipality.

6) Lengths

Channelizer posts shall be available in lengths from 36, 48 & 60 inches, as specified in the constructor plans or procurement details. Custom lengths are available upon demand.

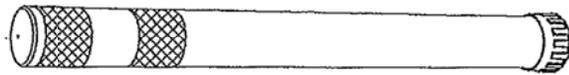
7) Installation

The channelizer shall be installed with the flat front of the post facing traffic, inserting the FG30 end into a 2" PSST 12 gauge steel anchor, which has been previously inserted into the ground. The assembly is held to the anchor with a supplied quick release pin or a 3/8" customer supplied bolt. Simply insert the post into the PSST, line up the predrilled hole in the post, insert a pin, fasten the lock and walk away. The post is ready immediately for direct traffic use.

COLOR AVAILABILITY

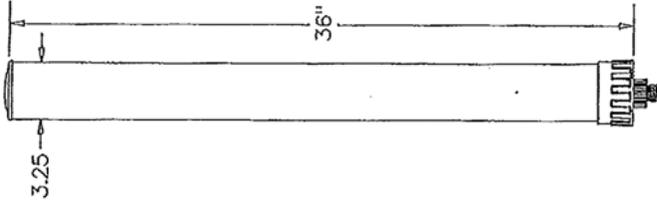
- WHITE 8CP--WHT000
- YELLOW 8CP--YEL000
- ORANGE 8CP--ORG000
- GREEN 8CP--GRN000
- BLACK 8CP--BLK000

--- = LENGTH IN INCHES



36" CITY POST SHOWN WITH TWO WRAPS REFLECTIVE SHEETING

8CP36WHT000



AT-GRADE EMBEDDED ANCHOR CUP
800BASE211
1.9" O.D.



SPINS INTO EMBEDDED ANCHOR CUP

PART NAME

CITY POST

DEPT. HEAD ENGINEERING MANAGER DATE

Davidson Traffic Control Products
"Creating Products to Save Lives"

www.davidsontraffic.com
hwyssales@pecco.com



PECCO, Tacoma, WA 98561
3610 7th, Ave. East
Tacoma, WA 98504
Phone (253) 831-0001
Fax (253) 831-0004

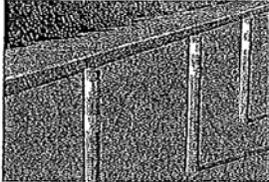
PECCO
8480
8CP36WHT000
DATE 02/02/2012
JOB NO. DB~

This drawing and other Davidson products are available in AutoCAD format with simple drag and drop features to transfer product information directly into design drawings. Davidson's product (D) works with all software packages and the CAD library allows for field transfer of files across all OS platforms. To register for your free copy, please contact your Davidson Sales Representative or email hwysales@pecco.com.

AutoCAD CD Available



A Highly Impact Resistant Channelizer Post Featuring Rapid Easy Spin Installation



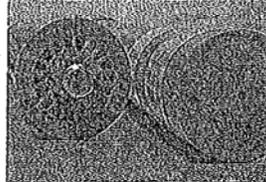
Pexco's legacy for building durable products to increase visibility and safety continues.

The new DP 200 EFX "City Post" may be Pexco's best innovation yet. Designed for quick replacement and superior durability, the City Post sets new standards for ease of maintenance and high durability.

In Traffic Safety colors, this post is perfect for your most challenging roadways. In designer colors, the post looks like a traditional cast-iron or steel bollard, but safer for cyclists.

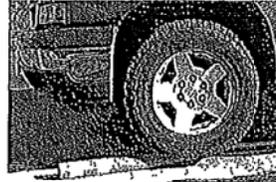
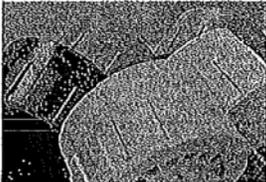
The DP 200 EFX City Post remains flexible, even at extremely high and low temperatures and returns to a full upright position after multiple impacts.

The DP 200 meets MUTCD and NCHRP 350 requirements for channelizing devices and was tested at high speeds by the Texas Transportation Institute (TTI).



Features and Benefits:

- 3" Round Channelizer Post
- Thermoplastic Polyurethane for High Impact Resistance
- 360° of Reflective Visibility
- Slim, Sleek Profile
- 1-Piece Construction
- UV Resistant
- Extreme Temperature Tolerance
- Easy Spin Installation
- Impact Tested, MUTCD and NCHRP 350 Compliant
- Available up to 48" tall in White, Yellow, Orange and Black. Other colors available upon request



Endless Applications:

- HOT & HOV Lanes
- Dangerous Curves
- Toll Plazas
- Bike Lanes
- Parking Lots
- Airports
- Gore Areas
- Traffic Closures



City Posts continue to fully rebound even after 50 hits at 55mph at TTI.

Free downloadable CAD drawings and specifications from our engineering website. Contact your sales representative or email hwysales@pexco.com

Pexco, is a leading manufacturer of recycled traffic control products



Davidson Traffic Control Products

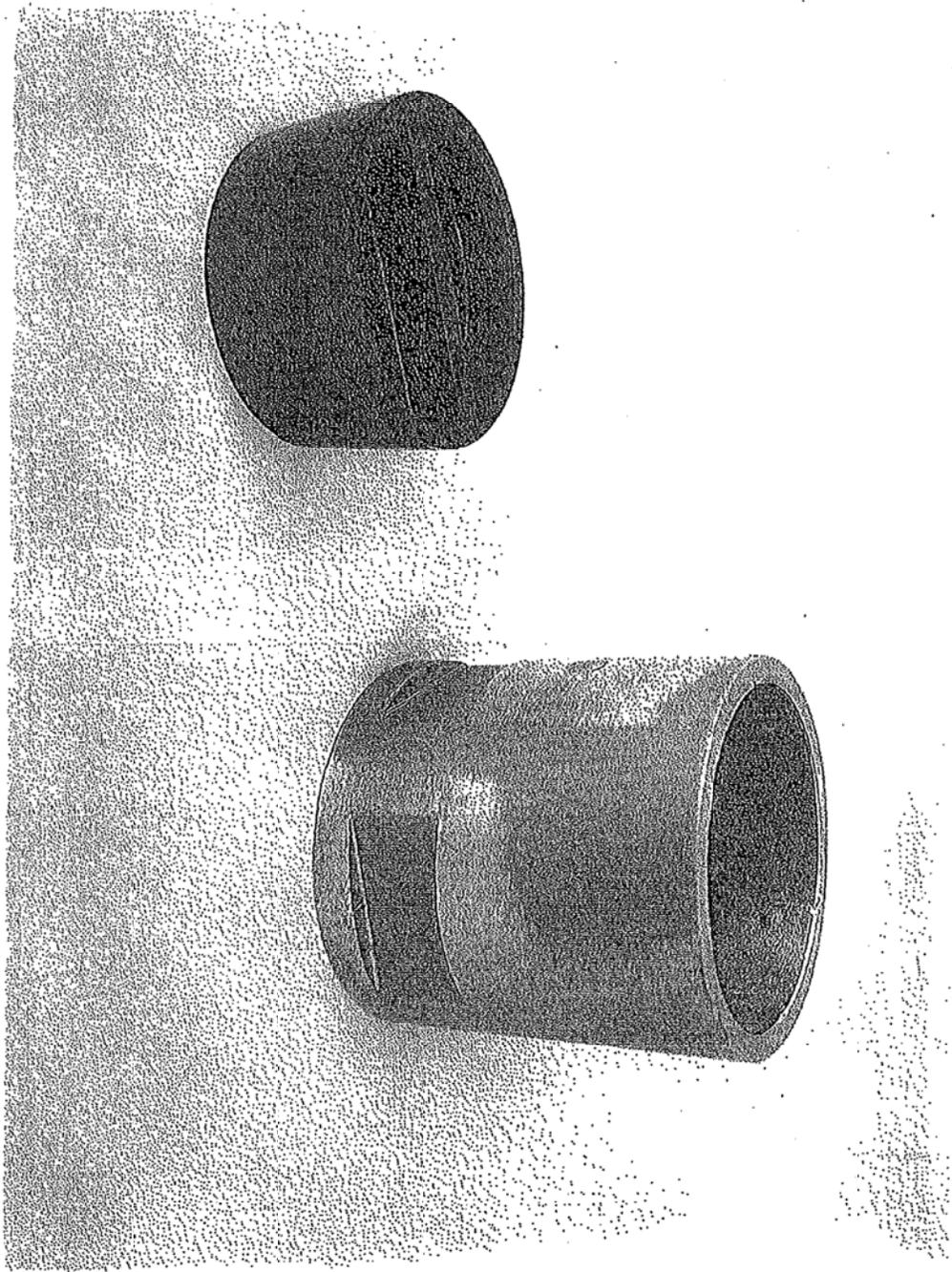
"Creating Products to Save Lives"

3110 70th Avenue East, Tacoma, WA 98424 • (877) 335-4638

www.davidsontraffic.com • hwysales@pexco.com



NT212





**Davidson FG 300 Ground Mount Post
Material Specifications**

1) Design

The design of the FG300 Ground Mount incorporates 4 separate components all working in conjunction with each other, they are the Delineator Tube, the FG30 Ground Anchor Insert, Reaction Rod and PSST Steel Ground Anchor.

Delineator Tube:

The channelizer post shall consist of a modified T-shaped tubular post a minimum of 3.00 inches wide by 2.00 inches deep, with 0.125 inch (min.) walls, comprised of flat front and curved rear surfaces and sides to create areas of opposing compression stresses on the inner and outer walls when impacted resulting in superior rebound. All channelizer posts shall be capable of sustaining a minimum of ten (10) direct wheel-over impacts at 60 MPH (100 KPH) without damage to the post or the reflective sheeting applied to the post. All posts shall be easily replaceable. All posts shall be constructed of UV-stabilized thermo-plastic low-density polyethylene (LDPE); conforming to the following material specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 1505	0.925
Hardness (min.)	D 2240	47 D
Tensile Strength @ break, (min PSI)	D 638	2200
Tensile Elongation @ break (min. %)	D 638	300
Dart Impact @ 23 degrees C, grams	D 1709	170
Cold Temp. Impact Test (-7° F)	FL/DOT	Pass

FG30 Ground Anchor Insert

The ground anchor insert is identical in shape to the FG300 with a T style shape and form although considerably smaller. The critical dimensions of the FG30 are sized to fit snugly within a 2" 12 gauge PSST steel pipe, contacting the face, end edges and back lobe to prevent spinning with the tube.

This is fastened to the FG300 with two mechanical fasteners and also contains a Reaction Rod. Both conforming to the following specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 792	1.10
Hardness (min.)	D 2240	90 A
Tear Strength (min lb/in.)	D 624, Die C	800
Tensile Strength @ yield, (min PSI)	D 412	4,000
Tensile Elongation @ break (min. %)	D 412	450



Reaction Rod

The RR is a solid .75" diameter thermoplastic rod that provides two functions with the assembly; first being providing a backbone to the assembly so the fasteners can bind without crushing and deforming the structure and second to aide in the rebound of the assembly when impacted.

2) Ground Anchor

The ground anchor is Telspar 2" square tubular 12 gauge steel or equivalent. The length of the anchor is recommended to be a minimum of 18" with roughly 17" buried in the ground so that one hole is visible for affixing the post to the anchor.

3) Florescent and Standard Colors

Channelizer posts and bases shall be constructed of UV-stabilized polymers and colors. The color shall be solid throughout and stabilized to resist UV degradation.

4) Locking Pins

The channelizer posts shall be secured to the ground anchor with either quick release pins that can be supplied by Davidson Traffic Control Products or with a 3/8" bolt assembly provided by the customer.

5) Reflective Sheeting

All posts shall have retro-reflective sheeting applied. The minimum reflective sheeting shall be two (2) 3-inch wide wraps of sheeting the same color as the post applied one (1) inch down from the top of the post with a three (3) inch gap between wraps. The reflective sheeting shall be at minimum ASTM D 4956 Type III 3M® High Intensity reflective sheeting. Other approved or required reflective sheetings may be used as required by the QPL or APL of the State or Municipality.

6) Lengths

Channelizer posts shall be available in lengths from 36, 48 & 60 inches, as specified in the construction plans or procurement details. Custom lengths are available upon demand.

7) Installation

The channelizer shall be installed with the flat front of the post facing traffic, inserting the FG30 end into a 2" PSST 12 gauge steel anchor, which has been previously inserted into the ground. The assembly is held to the anchor with a supplied quick release pin or a 3/8" customer supplied bolt. Simply insert the post into the PSST, line up the predrilled hole in the post, insert a pin, fasten the lock and walk away. The post is ready immediately for direct traffic use.

