

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

SH-P

T O RFQ NUMBER 857C2001 PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF:

JOHN JOHNSTON 304-558-2402

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*C02161559 336-674-6622 SIGN SUPPORT SYSTEMS CORP PO BOX 8041

GREENSBORO NC 27419

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SCOPE OF CONTRACT

The purpose of this Contract shall be to supply WVDOH maintenance personnel with breakaway coupling accessories designed to be used for the installation of galvanized u-channel and square tube sign supports, and to decrease repair time associated with damaged sign supports.

SPECIFICATIONS FOR ITEMS

Breakaway U-Channel / Square Tube Mounting Devices and Related Components (Items 1-18): These items shall be for a complete Breakaway U-Channel or Square Tube Mounting Device system and replacement parts for such. The complete breakaway device system supplied shall meet the following specifications:

I. General Description:

The coupling device shall enable the user to connect either 2 # per foot or 3 # per foot flanged "U-channel" or square tubing to a square anchor, which shall be imbedded in asphalt, soil, in an existing concrete island or sidewalk, or set in poured concrete. The device shall be designed to withstand cyclic loading (allowing for bending beyond 12%), yet break away safely on impact. The device shall be designed to not fail due to wind loading prior to failure of the sign support.

II. Function:

The objective of the coupler shall be to ensure a signpost will release from an anchor upon impact from a motor vehicle.

Vehicle damage should be minimized, as should be the risk to pedestrians after the post has been impacted. As a minimum, the device should incorporate the following features:

- 1. The coupler shall be designed to shear or yield at any angle of incidence (360 degrees), with a constant amount of force, irrespective of vehicle velocity.
- 2. The coupler shall function effectively, independent of the sequence in which the fasteners are tightened, with the sole function of the fasteners being to secure the sign post to the coupler and the coupler to anchor.
- 3. Upon impact, no shard of metal shall be left above grade. The anchor shall be automatically plugged to prevent any foreign matter or debris from entering, and ensure protection from a trip or fall accident.
- 4. No special tools such as torque wrenches or the like shall be required for effective installation or replacement of the coupler.
- 5. The coupler shall enable the sign installer to attach the signpost to an anchor within a five-minute period, after a knock down.
- 6. When damaged by a direct wheel impact, or vehicle under carriage the coupler shall facilitate re use of anchor.

III. Anchor

a. Asphalt or soil applications:

The coupler shall attach to a 2-1/2" O.D. x 8" long heavy duty anchor. The anchor shall incorporate a crescent shaped tab completely around the top end such that the tab will sit flush on the road surface when completely driven, and will aid to seal the driven hole from moisture and debris. The bottom end of the anchor shall be designed to allow a 2" O.D. ¼" wall seamless telescopic square tube (extension) with no perforations, 80,000 PSI yield strength, to slide into the end. The anchor shall be tapered on the inside to allow the 2" O.D. square tube (extension) to slide into the bottom end of the anchor 4". The extension to be used for asphalt applications shall be 12", and shall be 26" for soil applications. The anchor shall be driven flush with grade.

- b. Existing concrete applications:
- -Installation shall be accomplished by first core drilling a hole, which is roughly equivalent to the diagonal dimension of the anchor (3.0")
- -The anchor used shall be the heavy duty anchor described in part a. above. No square tube extension shall be required to be used for concrete applications.
- -The anchor shall be driven flush with grade.

IV. Coupler attachment

- a. The coupler shall attach to the flush (with grade) anchor by slide-ably fitting inside.
- b. The coupler shall incorporate a wedge locking feature, which applies equal and opposite force directly to two opposing side walls of the anchor, by tightening one internally located ½" bolt (grade 8).
- c. The signpost shall be attached to the coupler by use of one standard 5/16" Grade 8 bolt.
- d. The coupler shall allow for attachment to a standard perforated square anchor which has been driven flush with grade.

V. Shear Feature

The coupler shall incorporate a hollow bi-conical shear section, which enables the top post to separate from the anchor, and provide a seat for the center locking bolt.

- -The coupler shall break cleanly and reliably at grade without leaving any sharp pieces of metal above grade, to prevent trip or fall hazards.
- -The coupler material shall provide for a minimum bending (elongation) of 12% prior to fracture.
- -Upon impact the anchor shall remain undamaged with the inside of the anchor plugged
- -In the event of a knock down the anchor plug shall be removable and the signpost temporarily installed without a coupler when using 2" square tube post.
- -After a knock down the lower portion of the coupler (wedge and bolt) shall be re-useable.

VI. Components

The coupler should be essentially a one-piece unit after assembly. Individual components to consist of:

- a. Upper (shear) section
- b.Lower (wedge) section
- c. Fastener (1/2" grade 8, flanged bolt)

VII. Materials

Protective Coating:

-Exterior grade (UV protected) powder coating.

Materials:

-(ASTM A536 65-45-12, certified, aluminum alloys are not permissible.)

VIII. MINIMUM SALIENT FEATURES

- 1. Full 360 degree break away shear point.
- 2. Flush Break
- 3. Plugged anchor after impact
- 4. Wedge lock anchor attachment
- 5. 100% anchor reusability
- 6. Fasteners to play no roll in function of break-away feature
- 7. No special tools required
- 8. 5 minute or less replacement after knock down
- 9. No shards of metal remain above grade following impact trip hazard protection
- 10. Facilitates the use of tamper resistant fasteners
- 11. Coupler to enable the use of the following post types with one standardized anchor:
 - -2 and 3 lb. per foot u-channel
 - -2" and 2.25" square tube
- 12. Coupler shear feature to enable anchor re-use when subjected to a direct wheel or under carriage impact.
- 13. Lower half of coupler (wedge portion) to be reusable after an impact.

The general design of the components of the system shall be as shown in the attached drawings.

Shank for post driving accessories to be used with Skidril Model DH203 hydraulic drill/driver (Item 19): This item shall be a 7/8" x 4-1/4" shank, and shall be modified to incorporate the compressed air feature incorporated in the Skidril Model DH203 drill/driver. This item does not include driving accessories to be attached to the shank. In addition, the shank supplied shall also meet the following minimum requirements:

- Machining Tolerance +/- 0.010" min.
- Shank material shall be S7 tool steel
- Shank material shall be heat treatment/hardness tested to R50C
- Shank material shall be X-ray inspected for micro fractures or defects

If requested by the WVDOH, the low bidder for this item shall be required to submit appropriate documentation verifying that the shank to be supplied is manufactured to meet the above requirements, as well as proof of certification that the use of the shank to be supplied with the Skidril Model DH203 drill/driver will not void any warranties in place between the WVDOH and Skidril applying to Model DH203 drill/drivers purchased by the WVDOH.

Rod for "rope" type drill bit accessories to be used with Skidril Model DH203 hydraulic drill/driver (Item 20): This item shall be a 7/8" x 18" rope-rod, and shall be modified to incorporate the compressed air feature incorporated in the Skidril Model DH203 drill/driver. This item does not include drill bits to be attached to the rod. In addition, the rod supplied shall also meet the following minimum requirements:

- Machining Tolerance +/- 0.010" min.
- Rod material shall be S7 tool steel
- Rod material shall be heat treatment/hardness tested to R50C
- Rod material shall be X-ray inspected for micro fractures or defects

If requested by the WVDOH, the low bidder for this item shall be required to submit appropriate documentation verifying that the rod to be supplied is manufactured to meet the above requirements, as well as proof of certification that the use of the rod to be supplied with the Skidril Model DH203 drill/driver will not void any warranties in place between the WVDOH and Skidril applying to Model DH203 drill/drivers purchased by the WVDOH.

Shank for post driving accessories to be used with Skidril Model BG231 gas driver (Item 21): This item shall be a 1-1/4" x 6" shank, and shall be designed specifically to be used with the Skidril Model BG231 driver. This item does not include driving accessories to be attached to the shank. In addition, the shank supplied shall also meet the following minimum requirements:

- Machining Tolerance +/- 0.010" min.
- Shank material shall be S7 tool steel
- Shank material shall be heat treatment/hardness tested to R50C
- Shank material shall be X-ray inspected for micro fractures or defects

If requested by the WVDOH, the low bidder for this item shall be required to submit appropriate documentation verifying that shank to be supplied is manufactured to meet the above requirements, as well as proof of certification that the use of the shank to be supplied with the Skidril Model BG231 driver will not void any warranties in place between the WVDOH and Skidril applying to Model BG231 drivers purchased by the WVDOH.

Drive cap for use with powered driving equipment (Item #22): This item shall be for a drive cap designed and fabricated to be used with powered driving equipment, and to be compatible with standard driving equipment shank sizes. In addition, the drive cap supplied shall be specifically designed to be used for driving the steel anchor to be supplied as part of the applicable Item numbers included within Item numbers 1-18. The drive cap supplied shall be manufactured to meet the following requirements:

- Ensures safe installation of flush mount sign post anchors (engages far enough to prevent driver from bouncing off anchor)
- Prevent damage to cross section of anchor (minimizes flaring or deformation, so breakaway connector inserts freely)
- Machining Tolerance +/- 0.010" min.
- material shall be S7 tool steel
- material shall be heat treatment/hardness tested to R50C
- material shall be X-ray inspected for micro fractures or defects

If requested by the WVDOH, the low bidder for this item shall be required to submit appropriate documentation verifying that drive cap to be supplied is manufactured to meet the above requirements.

Manual drive cap (Item #23): This item shall be for a manual drive cap specifically designed to be used for driving the steel anchor to be supplied as part of the applicable Item numbers included within Item numbers 1-18. The drive cap supplied shall be manufactured to meet the following requirements:

- Ensures safe installation of flush mount sign post anchors (engages far enough to prevent driver from bouncing off anchor)
- Prevent damage to cross section of anchor (minimizes flaring or deformation, so breakaway connector inserts freely)
- Machining Tolerance +/- 0.010" min.
- material shall be S7 tool steel
- material shall be heat treatment/hardness tested to R50C
- material shall be X-ray inspected for micro fractures or defects

If requested by the WVDOH, the low bidder for this item shall be required to submit appropriate documentation verifying that drive cap to be supplied is manufactured to meet the above requirements.

PURCHASE HISTORY REPORTS

As part of this Contract, the vendor shall be required to submit semi-annual purchase history reports to the WVDOH. The vendor should submit this report in a summarized spreadsheet format. The spreadsheet columns should be labeled in general conformance to the following:

PO NUMBER (Use VISA doc. number if purchased on P-card)
PURCHASE METHOD (Indicate "Blanket Release Order" or "P-card")
QTY. LINE ITEM 1 ORDERED
OTY. LINE ITEM 2 ORDERED

QTY LINE ITEM "N" ORDERED (N = number of line items on Contract)
SHIPPING DESTINATION (Indicate the city or town the order was shipped to)
TOTAL VALUE OF ORDER

Each report shall include summary totals of the quantity of each line item ordered and the total value of all orders placed for both the period that the report covers and from the original effective date of the Contract. After award of the Contract, the first report the Vendor will be required to submit shall be for the first 180 days of the Contract, beginning at the original effective date of the Contract. The next report shall be for the period between the end of the period covered by the first report and the expiration date of the Contract, or the effective renewal date of the Contract. Reports shall continue to be submitted as described above for the life of the Contract. The due date for submission of reports shall be 15 days after the last day of the period covered by the report.

Preferably, the Vendor should submit all reports in Microsoft Excel format to Ted Whitmore's attention at e-mail address twhitmore@dot.state.wv.us. However, the Vendor may also submit reports to Ted Whitmore's attention at the following address:

WVDOH-Traffic Engineering Division Bldg. 5 – Rm. A550 1900 Kanawha Blvd. East Charleston, WV 25305

The Vendors reports shall include all purchases made, regardless of method of order placement (phone, fax, mail, internet). Failure to submit the above described reports may be grounds for cancellation of this Contract, and/or may result in a Vendor Complaint being registered with the State Purchasing Division.

MINIMUM ORDERS

There shall be no minimum order requirement for this contract.

DELIVERY

All prices bid shall be FOB destination. The attached list of delivery addresses represents the address of each District Sign Shop. The WVDOH reserves the right to specify additional delivery addresses in each District other than those listed.

The supplier shall be allowed thirty (30) calendar days A.R.O. for delivery. The WVDOH shall assess liquidating damages against the supplier for each day that any delivery of material is delayed beyond the thirty (30) day limit. Liquidated damages shall be in accordance with Table 108.7.1 of the West Virginia Division of Highways "Standard Specifications, Roads and Bridges, Adopted 2000". The total value of the Release Order shall be considered the "Original Contract Amount". The District may waive a portion or all of the late delivery charges at their discretion provided an ample supply of material is in stock at the District.

Notification of shipment from vendor shall be received a minimum of 48 hours before delivery of material at the delivery location indicated on the release.

The following estimated quantities are for bid purposes only. Actual quantities will be determined by needs of the West Virginia Division of Highways and may be increased or decreased. BID SCHEDULE

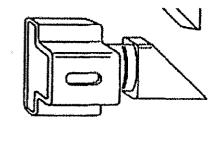
Inventory Class / Type / Subcode (DOH Use Only)	NA	019 008 080251	019 008 080252	019 008 080253	NA	019 008 080254	019 008 080255	019 008 080256
Total Cost	OS 1211	11,268.00	19, Mao	4,750,00	1,777.50	11,268,00	19,176,00 019 008	4,750,00
Unit Cost	35.55	28:17	23.97	14,00	35.55	28.17	23.97	19.00
Description	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor and 26" sq. tube anchor extension (for use with 2 #/ft post in soil)	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor and 12" sq. tube anchor extension (for use with 2 #/ft post in asphalt)	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor (for use with 2 #/ft post in concrete)	Breakaway U-Channel Mounting Device Replacement Top Shear Section with 5/16" bolt, for use with 2 #/ft post	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor and 26" sq. tube anchor extension (for use with 3 #/ft post in soil)	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor and 12" sq. tube anchor extension (for use with 3 #/ft post in asphalt)	Breakaway U-Channel Mounting Device with 2-1/2" O.D. heavy-duty anchor (for use with 3 #/ft post in concrete)	Breakaway U-Channel Mounting Device Replacement Top Shear Section with 5/16" bolt, for use with 3 #/ft post
Estimated Quantity	50	400	800	250	50		008	250
Item Number		2	m	4	5	9	r-	∞

Item Number	Estimated Quantity	Description	Unit Cost	Total Cost	Type / Subcode (DOH Use Only)
6	20	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor and 26" sq. tube anchor extension (for use with 2" 12 GA or 14 GA post in soil)	35.55	711,00	NA
10	. 50	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor and 12" sq. tube anchor extension (for use with 2" 12 GA or 14 GA post in asphalt)	28.17	1408, SO	019 008 080257
yd yd	100	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor (for use with 2" 12 GA or 14 GA post in concrete)	23:97	2,397.00	019 008 080258
12	40	Breakaway Square Tube Mounting Device, Replacement Top Shear Section with 2 ea. 5/16" bolts, for use with 2" 12 GA or 14 GA post	[G, OD	00′09/_	019 008 080259
13	10	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor and 26" sq. tube anchor extension (for use with 2.25" 12 GA or 14 GA post in soil)	38.55	355.50	NA
14	20	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor and 12" sq. tube anchor extension (for use with 2.25" 12 GA or 14 GA post in asphalt)	28.17	04'895	NA
15	20	Breakaway Square Tube Mounting Device, with 2-1/2" O.D. heavy-duty anchor (for use with 2.25" 12 GA or 14 GA post in concrete)	23:47	1,198.50	N A
16	20	Breakaway Square Tube Mounting Device, Replacement Top Shear Section with 2 ea. 5/16" bolts, for use with 2.25" 12 GA or 14 GA post	19.00	380,00	NA A
17	09	Breakway U-Channel / Square Tube Mounting Device, soil stabilizer plate with connection hardware, for use in weak soil with 30" soil anchor	2	C0,078	NA
18	120	Breakway U-Channel / Square Tube Mounting Device, Replacement Wedge and 1/2" Bolt	7.50	540,00	15 V

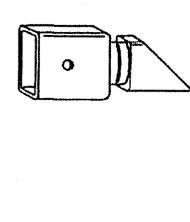
Type / Subcode (DOH Use Only)	NA	NA	NA	NA	NA	
Total Cost	450.00	675.00	450.00	2,550,00	1275.00	96'96h'38
Unit	90,09	135.00	96,00	255.00	255,00	
Description	7/8" x 4-1/4" shank for use with various post driving accessories (modified to be compatiable with Skidril Model DH203 hydraulic drill/driver). THIS ITEM FOR SHANK ONLY. DRIVE ACCESSORIES NOT INCLUDED.	7/8" x 18" rope type drill rod for use with various size rope type bits for hole drilling (modified to be compatiable with Skidril Model DH203 hydraulic drill/driver). THIS ITEM FOR ROD ONLY. BITS NOT INCLUDED.	1-1/4" x 6" shank for use with various post driving accessories and designed to be used with Skidril Model BG231 gas powered post drivers. THIS ITEM FOR SHANK ONLY. DRIVING ACCESSORIES NOT INCLUDED.	Drive Cap accessory for anchor to be supplied as part of items 1-18 (as applicable) and compatiable with all shank sizes	Manual Drive Cap for anchor to be supplied as part of items 1-18 (as applicable)	CONTRACT TOTAL
Estimated Quantity	\$	5	S	10	\$	
Item Number	19	. 20	21	22	23	

Delivery Address	Contact	Phone Number
WVDOH - D1 Sign Shop	Jim Russell	304-759-0708
Pickens Rd.		304-558-3001*
Nitro, WV 25143		
WVDOH - D2 Sign Shop	Ed Layman	304-528-5679
801 Madison Ave.	20 200	304-528-5600*
Huntington, WV 25704		
Time angles, we want to		
WVDOH - D3 Sign Shop	Tom Potts	304-420-4815
Rt. 95 - 2 miles S. of I-77		304-420-4645*
Parkersburg, WV 26101		
WVDOH - D4 Sign Shop	Rick Reed	304-627-2401
US-19 - 1 mile N. of Clarksburg (gore yard)		304-842-1500*
Clarksburg, WV 26301		
WVDOH - D5 Sign Shop	Larry Biser	304-289-3521
US-50 - 14 miles E. of Keyser		304-289-3521*
Burlington, WV 26710		
WVDOH - D6 Sign Shop	Jim Wurtzbacher	304-238-1205
US-40 - E. of Wheeling		304-238-4008*
(Middle Creek Rd. 39)		
Triadelphia, WV 26059		
WVDOH - D7 Sign Shop	Tyrone Campbell	304-269-0460
US-33 - 1/2 mile E. of Weston		304-269-0414*
Weston, WV 26452		
,		
WVDOH - D8 Sign Shop	Ron Wyatt	304-637-0215
Rt. 219 - 1 mile N. of Elkins		304-637-0220*
Elkins, WV 26241		
WVDOH - D9 Sign Shop	Harry Honaker	304-647-7551
US-219 - 1-1/2 miles N. of Lewisburg		304-647-7450*
Country Club Rd Brush Rd.		
Lewisburg, WV 24901		
_		
WVDOH - D10 Sign Shop	Curtis Whitlow	304-487-5283
270 Hardwood Lane		304-487-5228*
Princeton, WV 24740		
WVDOH - Traffic Services Complex	Richard Rawling	304-558-6356
180 Dry Branch Rd.	Ted Whitmore	304-558-3063
Charleston, WV 25306		

^{*} District/Division headquarters phone number

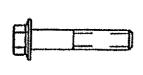


U-Channel Top shear section (supplied with items 1-8)



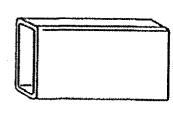
Square Tube Top shear section (supplied with items 9-16)

COMPONENT DRAWINGS - ITEMS 1-18



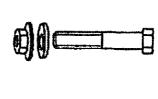
1/2" Grade 8

Galvanized Wedge Bolt (supplied with items 1-3, 5-7, 9-11, 13-15, and 18)

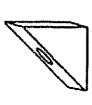


(supplied with items 1-3, 5-7, 9-11, and 13-Heavy Duty Anchor

15)



5/16" Grade 8 connection bolt (supplied with items 1-16



Wedge section (supplied with items 1-3, 5-7, 9-11, 13-15, and 18)

COMPONENT DRAWINGS - ITEMS 1-18

AFFIDAVIT

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

Revised 0 2/08/06

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name:	DIGN JUPPORT	345,18412 COKE.		,	1
Authorized Signature:	bolah	Date: S	7	121	106
No Debt Affidavit	/				