



November 2, 2009

In Reply Refer To: HSSD/WZ-285

Mr. John Reynolds Chief Engineer Work Zone Safety Products Inc. 7201 Haven Ave., Suite E-557 Rancho Cucamonga, CA 91701

Dear Mr. Reynolds:

In your letter of September 26, 2009, you requested the Federal Highway Administration (FHWA) acceptance of the Little Brother x-footprint temporary sign stand as a crashworthy traffic control device for use in work zones on the National Highway System (NHS). You requested acceptance of the temporary sign stand for use with roll-up, aluminum laminates (2 mm and 3 mm), and corrugated plastic (up to 16 mm) sign substrate materials. Your request for acceptance is based on the performance of the generic low mounted sign stands accepted in FHWA letter WZ-240 and a similar x-footprint sign stand in WZ-24. Accompanying your letter were the FHWA Office of Safety Design forms that included drawings and a detailed description of the Little Brother. Drawings of the Little Brother are enclosed for reference. You requested that we find the Little Brother acceptable for use as a Test Level 3 device on the NHS under the provisions of the National Cooperative Highway Research Program Report 350 "Recommended Procedures for the Safety Performance Evaluation of Highway Features".

This letter acknowledges FHWA's acceptance of your request. The original completed forms have been modified by the addition of the FHWA acceptance letter number and the date of our review. The form will be posted on our Web site in the near future.

Sincerely yours,

David A. Nicol, P.E.

Director, Office of Safety Design

Office of Safety

Enclosures



Page 1	FEDERAL HIGHWAY ADMINISTRATION	Letter Number
	OFFICE OF SAFETY DESIGN	100 100
	Category 2 Work Zone Device Acceptance Letter	Date
		** ***********************************
Contact Info	Petitioner / Developer Name and Address:	
	Work Zone Safety Products Inc.	
	7201 Haven Ave. Suite: E #557	
	Rancho Cucamonga, Ca. 91701	
	Therby certify that the device(s) covered by this Acceptance Let worthiness test and evaluation requirements of the FHWA and	
Signature	John Reynolds	
Telephone #	(909) 266-1453	1
Email Address	john@workzonesafetyproducts.com	
	Laboratory Engineer Name and Address	
	John Reynolds - Chief Engineer	
	7201 Haven Ave. Suite: E #557 Rancho Cucamonga, CA. 91701	
		<u> </u>
	Thereby certify that the testing that supports this Acceptance Let accordance with NCHRP Report 350 guidelines, that the devicet	
	accurately described on this form, and that the test results indicate	
	meets all applicable NCHRP Report 350 evaluation criteria.	
	I have evaluated the requested modifications to these devices pro	
	acceptable by the FHWA in Acceptance Letter WZ-2yD*aYd*fier my opinion, the modifications do not adversely affect the erash p	
	devices. I also certify that these devices are accurately described	
Signature	John Reynolds	
Telephone #	(909) 587-8942	
Email Address	john@workzonesafetyproducts.com	
Keywords:	•	
	Type of Device (See page 3)	
	X-Footprint Sign Stand	
	Composition of Sign or Rail substrate (See Page 3)	
	Roll-up / Fabric (with fiberglass spreaders – aluminum or steel spr	eaders are not allowed
	Thickness of substrate (inches): 0.63	
	Height of sign from the ground (inches), if applicable	(See Page 3)
	Low: 12 to 18 inches above the pavement	de la companya del companya de la companya del companya de la comp
	Flags and or lights present during test? Indicate numb	
	# of flags: # of lights: Weight of	lights: ea.
Device Name	Little-Brother Sign Stand	
Detailed Desc.	(May be attached on separate page(s)	
Of Device,	The WZ Little-Brother sign stand is an X-footprint portable	
Materials, sizes,	steel upright 1.20 inches square, out of which telescopes a	
Fasteners,	inner mast which can support a 48" x 48" roll-up sign at a babove the pavement. The mast is supported on a dual spr	
Substrates Foundation,	attached folding leg members measuring 42" each when e	
Aux. Features	Signs are held in place with a roll-up sign bracket. The ste	
Ballast, etc.	have a wall thickness of 0.120 inches.	
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	Category 2 We	ork Zone Device Acceptance Letter	Date
			产者证外引。到在
	M	andatory Attachments	
		l: Test data summary page(s)	
	Attach. #1a	Test #	
	Attach, #1b	Test #	
	Attach, #1c	Test #	
	Attach, #1d	Test #	
Alternative	Attachment #	: Description and discussion of modi	fication(s) to
		for accepted device.	, , ,
	Date: 09/26/2	nna	T
		2: PDF drawing(s) of device(s)	
	Attach. #2a	Drawing Title: Little-Brother Sign St	.L
		Drawing #: 4200	anu
	Attach, #2b	Drawing Title: Little-Brother Isomet	rio Viou
	711111111111111111111111111111111111111	Drawing #: 4200-ISO	IIC VIBW
	Attach, #2e	Drawing Title: Little-Brother Base	
	Attach20	Drawing #: 4200-Base	
	Attach, #2d	Drawing Title: Sign	
	, titacii. • 20	Drawing #: 4200-Sign	
	Attach. #2e	Drawing Title: Leg Assembly	
	Attaca. Wac	Drawing ": 4200-6500	
	Attach. #2f	Drawing Title:	
	Macii. "21	Drawing rule.	
	Arrada u 2.		
	Attach. #2g	Drawing Title:	
	!	Drawing #:	

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	Category 2 Work Zone Device Acceptance Letter	Date
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Please select from the following Keywords for "Type of Device":

Longitudinal Channelizing Barricade

Curb (Curb channelizer system with or without road tubes or other channelizers)

Drum

H-Footprint Sign Stand

X-Footprint Sign Stand

Trailer Mounted Signs (Does not include arrow boards or variable message signs or other Category 4 trailer mounted devices.)

Automated Flagger Device (not trailer mounted)

Tripod Sign Stand

Type I Barricade

Type II Barricade

Type III Barricade

Vertical Panel

Intrusion Detector

Ballast

(Action relates to ballast on one or more devices)

Channelizer (Individual units unlike cones, road tubes, or drums)

Please select from the following Keywords for "Sign Substrate":

Roll-up · Fabric (with fiberglass spreaders – aluminum or steel spreaders are not allowed.)

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Plywood

Aluminum - Solid

Aluminum - Laminate

Corrugated Plastic

Extruded Plastic

Waffleboard Plastic

Wood / Lumber

Please select from the following Keywords for "Height of Sign":

The distance to the lowest point on the sign is:

Low	12 to 18 inches above the pavement
Mid-A	20 to 24 inches above the pavement
Mid-B	25 to 36 inches above the pavement
Mid-C	37 to 59 inches above the pavement
Tall	60 to 71 inches above the pavement
Ourminal	72 (male an and sall as

Oversized 72 inches and taller

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Please note the following standard provisions that apply to FHWA letters of acceptance:

- Our acceptance is limited to the crashworthiness characteristics of the devices and does not cover their structural features, or conformity with the Manual on Uniform Traffic Control Devices
- Any changes that may adversely influence the crashworthiness of the device will require a new acceptance letter.
- Should the FHWA discover that the qualification testing was flawed, that in-service
 performance reveals unacceptable safety problems, or that the device being marketed is
 significantly different from the version that was crash tested, it reserves the right to modify
 or revoke its acceptance.
- You will be expected to supply potential users with sufficient information on design and installation requirements to ensure proper performance.
- You will be expected to certify to potential users that the hardware furnished has
 essentially the same chemistry, mechanical properties, and geometry as that submitted for
 acceptance, and that they will meet the crashworthiness requirements of FHWA and
 NCHRP Report 350.
- To prevent misunderstanding by others, this letter of acceptance shall not be reproduced
 except in full. This letter, and the test documentation upon which this letter is based, is
 public information. All such letters and documentation may be reviewed at our office upon
 request.
- If the subject of this letter is a patented device it is considered "proprietary." The use of proprietary work zone traffic control devices in Federal-aid projects is generally of a temporary nature. They are *selected by the contractor* for use as needed and removed upon completion of the project. Under such conditions they can be presumed to meet requirement "a" given below for the use of proprietary products on Federal-aid projects. On the other hand, if proprietary devices are *specified by a highway agency* for use on Federal-aid projects they: (a) must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with existing highway facilities or that no equally suitable alternative exists or; (c) they must be used for research or for a distinctive type of construction on relatively short sections of road for experimental purposes. Our regulations concerning proprietary products are contained in Title 23, Code of Federal Regulations, Section 635.411, a copy of which is enclosed.
- This Acceptance Letter shall not be construed as authorization or consent by the Federal Highway Administration to use, manufacture, or sell any patented device for which the applicant is not the patent holder. The Acceptance Letter is limited to the crashworthiness characteristics of the candidate device, and the FHWA is neither prepared nor required to become involved in issues concerning patent law. Patent issues, if any, are to be resolved by the applicant.









