

U.S. Department Of Transportation Federal Highway Administration

400 Seventh St., S.W. Washington, D.C. 20590

October 7, 1997

Refer to: HNG-14/SS-68B

Mr. Lawrence E. Leahy President Xcessories Squared P.O. Box 135 Auburn. IL 62615

Dear Mr. Leahy:

This is in response to your August 8 letter to Mr. Nicholas Artimovich requesting that your company's Xcessories Squared slip-base components be found acceptable when used with an existing three-bolt triangular slip base anchor plate.

Our acceptance letter SS-68, dated September 18, 1996, found your company's slip base acceptable for use on the National Highway System (NHS) when used with a single 63.5 mm square, 12 gage perforated steel tube sign support and a foundation tube with a soil plate or a concrete foundation.

We concur with your assessment that the components of the system can be expect to perform in an acceptable manner when used with an existing compatible triangular slip base. Therefore, they will e acceptable for use on existing foundation slip plates on the NHS, subject to the following conditions.

- 1. The foundation slip plate and the support mass are similar to those crash tested. (A drawing of the tested system is enclosed for reference. Critical components of crashworthy slip bases are the clamping force in the splice bolts, the size (angle) of the notch to receive the splice bolts, the thickness and material properties of the slip plates, and the finish of the surfaces, both those of the throats of the notches and those of the parallel slip surfaces. Care must be exercised to ensure that Xcessories Squared components used with an existing foundation slip plate are compatible and create a slip base comparable to that tested.)
- 2. The foundation anchor is at least as firm as the crash-tested installation covered in our acceptance letter SS-68. (In that installation the stub in strong soil was affixed with a soil plate, as in the enclosure. Your standard concrete foundation would, of course, also be acceptable.

3.	All hardware in the slip base except the foundation slip plate is replaced by the Xcessories Squared hardware kit, including a Teflon bolt retainer gasket and two stainless steel release bushings on each splice bolt.

Should you have any questions, please do not hesitate to call Mr. Artimovich at (202) 366-1331.

Sincerely yours,

Dwight A. Horne, Chief Federal-Aid and Design Division

Enclosure

Supplemental Geometric and Roadside Design Acceptance Letter SS-68B

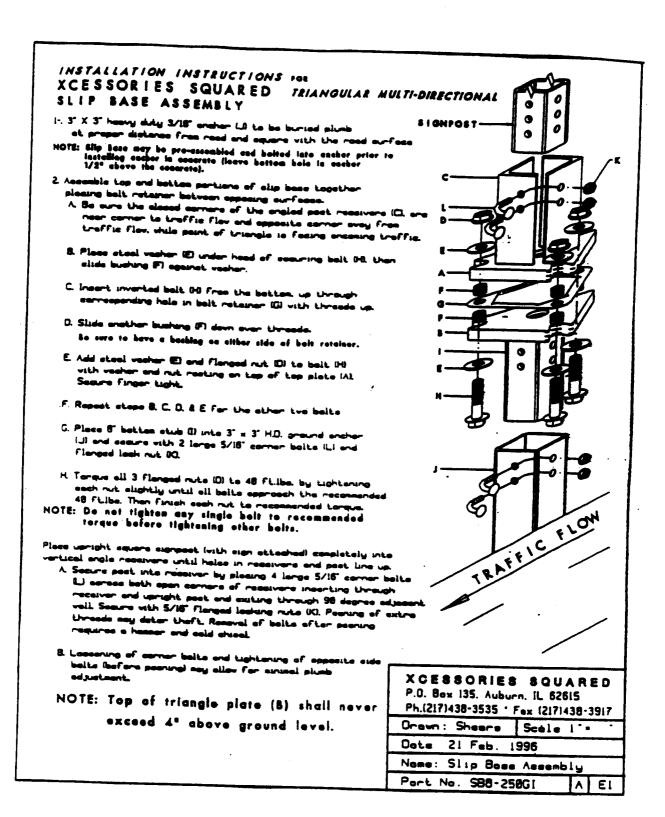
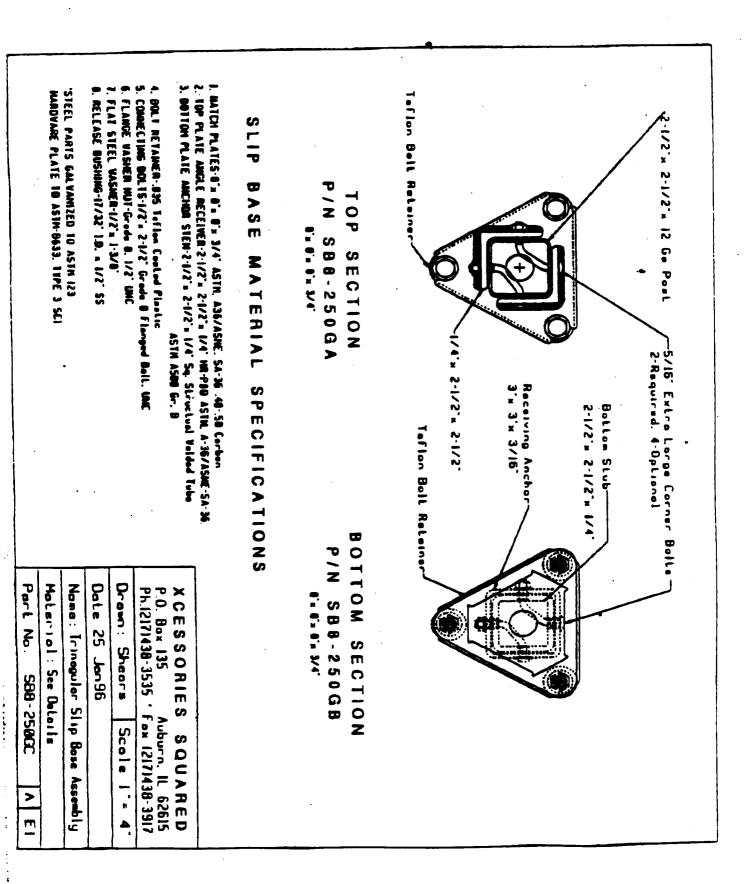


Figure 3. Details of the triangular multi-directional slip base assembly.

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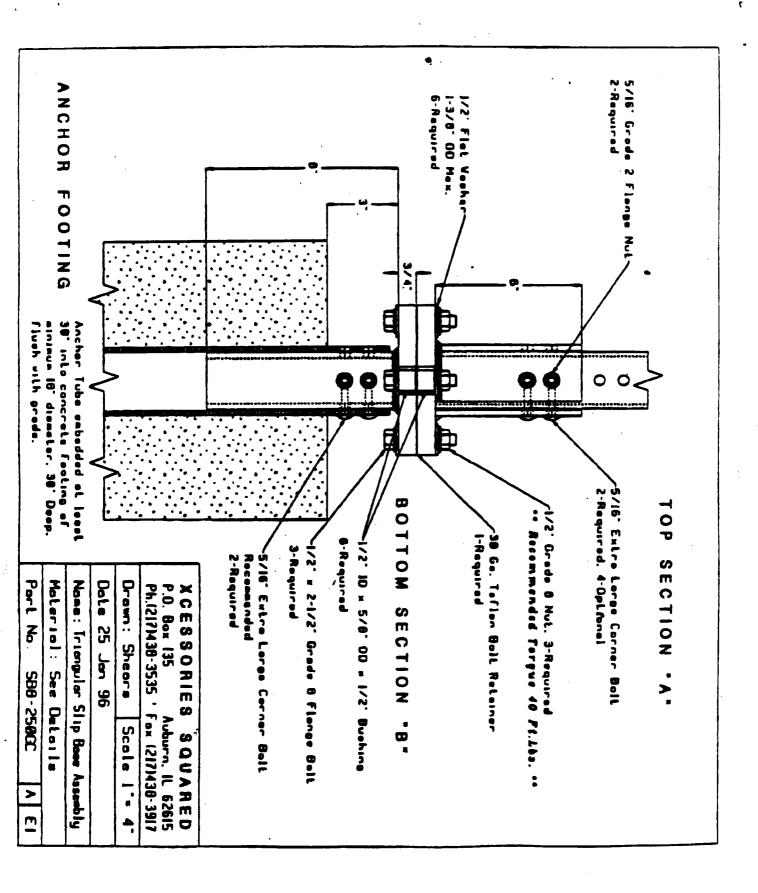
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2.875 Typ./ -See Note 'A'

L 00'2 -820 Front View $-7/16 \times 7/8$ Slot typ.

Figure 4. Details of winged anchor.

Top View

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United Btates these materials occur 5 F in

greater extent as the provisions that require the use of doforth in this section. ing steel materials, to the same or mestic materials and products, includ (2) The State has standard contract provisions

be awarded to the bidder who submits bid based of furnishing foreign steel 2 bidders to submit a bid based on furcontract provisions must (i) reguire all materials by more than 25 percent. such total big exceeds the lowest total the lowest total bid based on furnishnishing domestic steel materials, and (ii) clearly state that the contract will sion Administrator may be used. The terials which is acceptable to the Divibased on furnishing foreign steel maprocedure for obtaining alternate bids with the following requirements. Any mestic steel materials which comply nate bid provisions for foreign and do-(3) The State elects to include alter domestic steel materials unicas

of the total contract cost or \$2,500 they are delivered to the project. to be the value of the steel products as whichever is greater. For purposes of one-tenth of one percent (0.1 percent) this paragraph, the cost is that shown such materials used does not exceed foreign steel materials, if the cost of a project, the requirements of this section do not prevent a minimal use of (4) When steel materials are used in

of the provisions of this section if: (c)(1) A State may request a waiver

public interest; or sions would be inconsistent with (i) The application of those proviş

(ii) Steel materials/products are not produced in the United States in sufficient and reasonably available quantities which are of a satisfactory quality.

(2) A request for walver, accompanied by supporting information, must be submitted in writing to the Regional Federal Highway Administrator (RPHWA) through the PHWA Divi sction on the request. The RFHWA will have approval authority on the resion Administrator. A request must be submitted sufficiently in advance of the walver in order to alles time for proper review and

> stances. of both. tain materials or products in apecific geographic areas, or for combinations made for specific projects, or Requests for waivers may depending on circum for cer-

on the request shall be considered ad-State to the Federal Highway Adminministratively final. RFHWA may be appealed by strator (Administrator), whose action (4) The denial of the request by

availability issues or more than one FHWA region may be submitted by volves nationwide Ection. the RFHWA to the Administrator for (5) A request for a waiver which inpublic interest or

appeal from a denial of a request must include facts and justification to support the granting of the walver. The PHWA's action on such a request may PHWA response to a request or appeal will be in writing and made available for public comment. be published in the Program Register to the public upon request. Any re-(6) A request for waiver and 5

ers described in paragraph (c)(1) were not waived. that would be imposed if the provision cost, administrative burden, and delay FHWA will consider all appropriate factors including, but not limited to, this section will be granted, the (7) In determining whether the walv-2

contract procedures may be used to ments of this section. meure compliance with the (d) Standard State and Pederal-aid Primper

(2) U.S.C. 315, sec. 10 of Pub. L. 90-229, 98 Stat. 55, sec. 106 of Pub. L. 97-424, 96 Stat. 3130 and 40 CPR 1.48(b)) (48 FR 53184, Nov. 26, 1963, as amended 49 FR 18631, May 3, 1964)

8 636.411 Malerial or product selection

for a project, unless: for any premium or royalty on any patented or proprietary material, spec- (a) Pederal funds shall not partici-pate, directly or indirectly, in payment forth in the plans and appointations fication, or process specifically 3

(1) Such patented or proprietary item is purchased or obtained through

ble unpatented items; or competitive bidding with equally suita-

nate exists; or prietary item is essential for synchrotics, or that no equally suitable alter nization with existing highway facili fles either that such patented or pro-(2) The Blate highway agency certi

item is used for research or for a dis-tinctive type of construction on relamental purposes. lively short sections of road for experi (3) Such patented or proprietary

specifications for each such material or product that is considered acceptable for incorporation in the work. If the State highway agency wishes to substitute some other acceptable material or product for the material or product designated by the successful bidder or bid as the lowest alternate, and such substitution results in an increase in costs, there will not be Federal-alid participation in any increase in materials or products are judged to be of satisfactory quality and equally acceptable on the basis of engineering analysis and the anticipated prices for the related item(s) of work are estichase more than one nonpatented, nonproprietary material, semifinished or finished article or product that will mated to be approximately the same, the FB&E for the project shall either contain or include by reference the work of a project and these available fulfill the requirements for an item of (b) When there is available for pur

rials and products, when such specific choice is approved by the Division Administrator as being in the public interest. When the Division Administrator's approval is not obtained, the Sess will be nonparticipating unless bidding procedures are used that establish the unit price of each acceptable alternative. In this case Federal-sid participation will be based on the lewest price (c) A State highway agency may require a specific material or product when there are other acceptable mate-

(d) Appendix A sets forth the PHWA requirements regarding (1) the specification of alternative types of culvert pipes, and (3) the number and lypes of each alternatives which

contracts.

on plans to single trade name materi-als will not be approved on Federal-aid (e) Reference in specifications

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be set forth in the specifications for various types of drainage installations.

1635.413 Gueranty and warranty clauses.

ranty clauses after final acceptance of work are not eligible for Federal parreplaced under such guaranty or wartracts. Work performed and materials completion by the contractor and its specified period after its satisfactory rant materials and workmanship or to be approved for use in Federal-aid conotherwise maintain the work for a the contractor to guarantee or war (b) of this section, clauses that require final acceptance by the State, will not (a) Except as provided in paragraph

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chanical equipment should generally include contract clauses that require: ing and/or installing electrical or me-(b) Contracts which involve furnish

practice, or those provided as chanical equipment consistent guarantees on all electrical and me (1) Manufacturer's warranties customary trade 2

antees providing for antisfactory in-service operation of the mechanical and electrical equipment and related components for a period not to exceed a months following project accept-(2) Contractors' warranties or guar

686.417 Convict produced material

(a) Materials produced by convict labor may only be incorporated in a Pederal-aid highway construction project if such materials have been:

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(1) Produced by convicts who are on

parole, supervised release, or probation from a prison or

(2) Produced in a qualified prison facility and the cumulative annual production amount of each materials for use in Federal-aid highway construction does not exceed the amount of such materials produced in such facility for use in Federal-aid highway construction during the 13-acris produced. struction during the 13-month period ending July 1, 1987.

(b) Qualified prison facility means
 ny prison facility in which convicts