

**DEPARTMENT OF TRANSPORTATION**

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**Errata No. 97-2**

**TO: All holders of the July 1997 edition of the Standard Plans Book**

**FROM: Engineering Service Center-Office of Office Engineer**

**SUBJECT: Errata**

**DATE: August 20, 1998**

The attached Revised Standard Plans (RSPs) and New Standard Plans (NSPs) dated August 6, 1998 contain revisions and additions to the July 1997 edition of the Standard Plans Book and are being issued as Errata No. 97-2.

Revised Standard Plans (RSPs) are to replace the comparable sheets in the July 1997 edition of the book. New Standard Plans (NSPs) are to supplement the July 1997 edition of the book.

The revisions or additions to the Revised Standard Plans (RSPs) and New Standard Plans (NSPs) issued as Errata No. 97-2 are:

**A77 series RSPs and NSPs-** Most of the A77 series of Standard Plan sheets have been revised or new sheets developed so that all new guard railing end treatments conform to the crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350) as directed by the Federal Highway Administration.

**RSP A77A -** Revises the sheet to eliminate the steel post with steel block guard railing installations. The use of a flat plate washer under the button head bolt attaching the rail element to the line post has been eliminated. Flat plate washers are to be used only where shown on the plans. A plan for steel post with notched wood block guard railing will potentially be available at a later date provided such a configuration passes additional NCHRP 350 crash test requirements.

**RSP A77B -** Note 2 has been revised to reflect deletion of steel post with steel block guard railing installations.

**RSP A77C -** Revises the sheet to reflect deletion of steel post with steel block guard railing installations.

**RSP A77D -** Revises the description of guard railing installations to numbered layouts instead of flare types to reflect use of flared or in-line terminal systems depending on site conditions. Former Type 1M Flare has been renamed and split into two details -



Type 1A Layouts for structure approach installations and Type 1B Layouts for embankment installations. Former Type 9 Flare (from Standard Plan A77E) has been moved to this sheet, split into two details and renamed - Type 2A Layouts for structure approach installations and Type 2B Layouts for embankment installations. The 7.6 m parabolic flare and associated 10:1 or flatter flare approach details for Type 2 Layouts have been further defined. The parabolic offset formula and detail has been added.

RSP A77E - Revises the description of guard railing installations to numbered layouts instead of flare types to reflect use of flared or in-line terminal systems depending on site conditions. Former Type 4 Flare (from Standard Plan A77D) has been moved to this sheet and renamed Type 4A Layout. Former Type 8M Flare has been revised to reflect use if terminal system end treatment and renamed Type 8A Layout. The parabolic offset formula and detail has been added.

RSP A77F -Revises the embankment widening details to show flared end treatments and in-line end treatments. Post footing details have been moved to New Standard Plan NSP A77FA.

NSP A77FA - Provides new details for typical post embedment for embankment installations. Post footing details (from Standard Plan A77F) have been moved to this sheet.

RSP A77G -Deletes details for Type M end treatment and replaces Type M with terminal system end treatment.

Standard Plan A77GA has been canceled.

RSP A77J -Deletes former Note 2 of Standard Plan A77J. Remaining notes have been renumbered.

RSP A77K -Deletes former Note 6 of Standard Plan A77K. Remaining notes have been renumbered.

NSP A77L -Provides details for Terminal System (Type SRT), a flared end treatment which conforms to the crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

NSP A77M - Provides details for Terminal System (Type ET) ), an in-line end treatment which conforms to the crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

NSP A77N - Provides details for Terminal System (Type CAT) ), an in-line end treatment which conforms to the crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

RSP A78B - Revises plan view of Double Thrie Beam Barrier to correctly show steel post and steel block connections.

RSP A78E - Deletes details for Type M end treatment and replaces Type M with terminal system end treatment.



Standard Plan A81 has been deleted and replaced with NSP A81A, NSP A81B and NSP A81C.

NSP A81A, NSP A81B and NSP A81C - Provides new details for sand filled crash cushions which conform to crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

NSP A82 - Provides details for Crash Cushion (Type CAT) which conforms to the crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

RSP D82 - Revises the earth load information specified in the Design Notes.

Standard Plan T1 has been deleted and replaced with NSP T1A, and NSP T1B.

NSP T1A and NSP T1B - Provide new details for sand filled crash cushions which conform to crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

RSP T2 - Revises the details for sand filled crash cushions so that they conform to crash test requirements of the National Cooperative Highway Research Program 350 (NCHRP 350).

RSP T4 - Revises the spacing dimensions for the pipe supports used for the traffic screen to conform to a soft conversion of the dimensions of the original imperial version of the plan.

RSP T7 - Revises the information on the sign by deleting the route shield and replacing it with the CT logo, adding the "Give 'em a brake" message to the orange diamond-shaped figure, and deleting the phrase "Project Funded By" and replacing it with the type project involved and the year of completion of construction.

RSP T15 - Revises Note 6 to redefine the weigh of Shadow Vehicle V2.

RSP T16 - Revises Note 6 to redefine the weigh of Shadow Vehicle V2.

RSP T17 - Revises Note 5 to redefine the weigh of Shadow Vehicle V2.

RSP B3-7 - Revises the wall batter to 100:6 for the Design H of 3600 mm in the table titled "Table of Reinforcing Steel Dimensions and Data".

RSP B11-52 - Revises the dimensions of the slotted holes in the splice bar shown in the "Splice or Expansion Joint Detail".

RSP RS3 - Revises the dimensions shown in Table 1 and the notes to a soft conversion of the dimensions of the original imperial version of the plan.

RSP S8C - Revises the dimensions of the stop plate shown in Section A-A.

August 20, 1998



RSP S11 - Revises the number of cable clamps shown in the "Turnbuckle Details" to 3 and revises the description of the eyebolts used with the safety chains and cables.

RSP S13 - Revises Note 3 to show Class 2 PCC.

RSP S18B - Revises the thickness dimension for the light fixture mounting bracket.

RSP S40Q - Revises the "Slant Post Table" to properly align the span entries in the rows of the table to correspond to splits shown in the pipe post column.

In addition to the attached 8-1/2" x 11" copies of the above listed Revised Standard Plans (RSPs) and New Standard Plan (NSPs), also attached is a list of new and revised standard plans issued subsequent to the publication of the July, 1997 Metric Standard Plans Book and the latest revised Standard Plans List for use with the July, 1997 metric edition of the Standard Plans Book.

The July 1997 Standard Plans, 1997 Standard Plans Errata No. 1, and this 1997 Standard Plans Errata No. 2 (without signature and registration seal information) are available for electronic access by:

- Caltrans personnel via the Caltrans Internal Network from the following location:  
</net/trws004/drv4/stdplans/metric/97/details>
- All others via the Caltrans OE-ESC Internet WEB site from the following location:  
<http://www.dot.ca.gov/hq/esc/projplan/ppintro.htm>

Hard (non-electronic) copies of the July 1997 Standard Plans, 1997 Standard Plans Errata No. 97-1, and this 1997 Standard Plans Errata No. 97-2 are available through a vendor for a fee at the following address:

Winslow Repro/Graphics, 2337 Lexington Street, Sacramento, CA 95815  
Telephone: (916) 921-9311 FAX: (916) 921-2470

John Gizinos  
ESC/OE



## JULY 1997 STANDARD PLANS BOOK

<b>NEW STANDARD PLANS (NSP) AND REVISED STANDARD PLANS (RSP) ISSUED SUBSEQUENT TO THE PUBLICATION OF THE JULY 1997 METRIC STANDARD PLANS BOOK</b>			
PLAN NO.	PLAN TITLE	DATED	ISSUED BY ERRATA No.
RSP A76A	Concrete Barrier Type 60	12-04-97	97-1
RSP A76G	Concrete Barrier Type 60S	12-04-97	97-1
RSP A77C	Metal Beam Guard Railing-Posts and Blocks	12-04-97	97-1
RSP C7E	Reinforced Concrete Crib Wall-Types A, B, C, D, E, and F - Header and Stretcher Details	12-04-97	97-1
RSP C7F	Design Data For Reinforced Concrete Crib Wall Foundation Pressure-Battered Wall	12-04-97	97-1
RSP C7G	Reinforced Concrete Crib Wall Foundation Pressure-Vertical Wall	12-04-97	97-1
RSP C8C	Steel Crib Wall-Design Data	12-04-97	97-1
RSP C9B	Timber Crib Wall-Types A, B, C, and D Design Data	12-04-97	97-1
NSP D75A	Pipe Inlets	12-04-97	97-1
NSP D75B	Pipe Inlets	12-04-97	97-1
NSP D75C	Pipe Inlets-Ladder, Step and Trash Rack Details	12-04-97	97-1
RSP D77A	Grate Details	12-04-97	97-1
RSP D85	Box Culvert Wingwalls-Types D and E	12-04-97	97-1
RSP H2	Planting and Irrigation Symbols	12-04-97	97-1
RSP B3-1	Retaining Wall Type 1- H=1200 mm through 9100 mm	12-04-97	97-1
RSP B3-3	Retaining Wall Type 1A	12-04-97	97-1
RSP B3-7	Retaining Wall Type 5	12-04-97	97-1



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(CONT'D)

PLAN NO.	PLAN TITLE	DATED	ISSUED BY ERRATA No.
RSP B3-8	Retaining Wall Details No. 1	12-04-97	97-1
RSP S4	Overhead Signs-Truss Single Post Type Structural Frame Members	12-04-97	97-1
RSP ES-6J	Signal and Lighting Standards-Case 1 Arm Loading- Wind Velocity = 113 km/h-Arm Lengths 4.6 m to 9.1 m	12-04-97	97-1
RSP ES-6R	Signal and Lighting Standards-Case 4 Arm Loading- Wind Velocity = 129 km/h-Arm Lengths 7.6 m to 13.7 m	12-04-97	97-1
RSP ES-34A	Closed Circuit Television-Pole Details	12-04-97	97-1
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RSP A77A	Metal Beam Guard Railing- Wood Posts and Wood Blocks	8-6-98	97-2
RSP A77B	Metal Beam Guard Railing- Standard Hardware	8-6-98	97-2
RSP A77C	Metal Beam Guard Railing- Wood Posts and Wood Blocks	8-6-98	97-2
RSP A77D	Guard Railing-Typical Layouts	8-6-98	97-2
RSP A77E	Guard Railing-Typical Layouts	8-6-98	97-2



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(CONT'D)

PLAN NO.	PLAN TITLE	DATED	ISSUED BY ERRATA No.
RSP A77F	Metal Beam Guard Railing-Typical Embankment Widening for End Treatments	8-6-98	97-2
NSP A77FA	Metal Beam Guard Railing-Typical Line Post Installation	8-6-98	97-2
RSP A77G	Guard Railing End Anchor (Breakaway, Type B)	8-6-98	97-2
A77GA <i>Canceled</i>	<del>Anchor Assembly (Breakaway, Type M) Hardware and Post Details</del>	7-1-97	<i>Canceled by Errata No. 97-2</i>
RSP A77J	Guard Railing Connections to Bridge Railings, Retaining Walls and Abutments	8-6-98	97-2
RSP A77K	Guard Railing Connection to Bridge Sidewalks and Curbs	8-6-98	97-2
NSP A77L	Guard Railing and Barrier Railing End Treatment	8-6-98	97-2
NSP A77M	Guard Railing and Barrier Railing End Treatment	8-6-98	97-2
NSP A77N	Guard Railing and Barrier Railing End Treatment	8-6-98	97-2
RSP A78B	Thrie Beam Barrier	8-6-98	97-2