20-5 IDENTIFYING SEISMIC DESIGN CRITERIA IN THE GENERAL NOTES

GENERAL NOTES EXAMPLES

The following examples show the format for presenting the seismic design criteria and seismic design loading in the General Notes on the contract plans. Each example illustrates a commonly used combination of design criteria and loading.

Example # 1:

General Notes for a bridge designed with the Bridge Design Specification (BDS), the SDC without modifications, and a standard SDC ARS curve.

GENERAL NOTES
LOAD FACTOR DESIGN

Design:	*Caltrans Bridge Design Specifications-April 2000 (LFD) (1996 AASHTO with Interims and Revisions by Caltrans)*
Seismic Design:	***Caltrans Seismic Design Criteria (SDC), Version 1.2 December 2001***
Live Loading:	*HS20-44 and alternative and permit design load*
Seismic Loading:	***SDC ARS Curve For Soil Profile C (M=6.5 ± .25)*** ***(Peak Rock Acceleration = 0.6g)***
Reinforced Concrete:	f_y = 420 MPa f_c' = 25 MPa n = 8
Prestressed Concrete:	*See "Prestressing Notes"*
Structural Steel:	*ASTM A709 Grade 250*

Example # 2:

General Notes for a bridge designed with the BDS, the SDC with modifications, and a standard SDC ARS curve. A copy of the final SDC modifications shall be routed to the Structure Design Office Chiefs and the Earthquake Committee at bridge PS&E.

GENERAL NOTES
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Design: *Caltrans Bridge Design Specifications-April 2000 (LFD) (1996 AASHTO with Interims and Revisions by Caltrans)*

Seismic Design: ***Caltrans Seismic Design Criteria (SDC), Version 1.2 December 2001 with modifications***

Live Loading: *HS20-44 and alternative and permit design load*

Seismic Loading: ***SDC ARS Curve For Soil Profile C (M=6.5 ± .25)***

(Peak Rock Acceleration = 0.6g)

Reinforced Concrete:

f_y = 420 MPa

f'_c = 25 MPa

n = 8

Prestressed Concrete: *See "Prestressing Notes"*

Structural Steel: *ASTM A709 Grade 250*

Example # 3:

General Notes for a bridge designed with the BDS, the SDC without modifications, and a site-specific ARS curve.

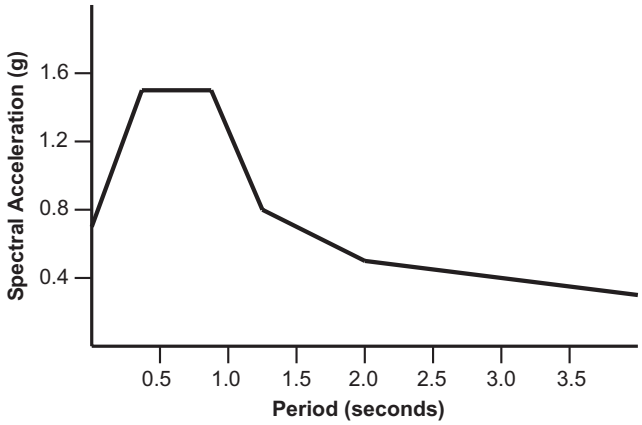
GENERAL NOTES
LOAD FACTOR DESIGN

Design: *Caltrans Bridge Design Specifications-April 2000 (LFD) (1996 AASHTO with Interims and Revisions by Caltrans)*

Seismic Design: ***Caltrans Seismic Design Criteria (SDC), Version 1.2 December 2001 with modifications***

Live Loading: *HS20-44 and alternative and permit design load*

Seismic Loading: ***Site Specific Acceleration Response Spectra Curve***



Reinforced Concrete: f_y = *420 MPa*
f'_c = *25 MPa*
n = *8*

Prestressed Concrete: *See "Prestressing Notes"*

Structural Steel: *ASTM A709 Grade 250*

Example # 4:

General Notes for a bridge designed with a project specific design criteria. A final copy of the project seismic design criteria shall be routed to the Structure Design Office Chiefs and the Earthquake Committee at bridge PS&E.

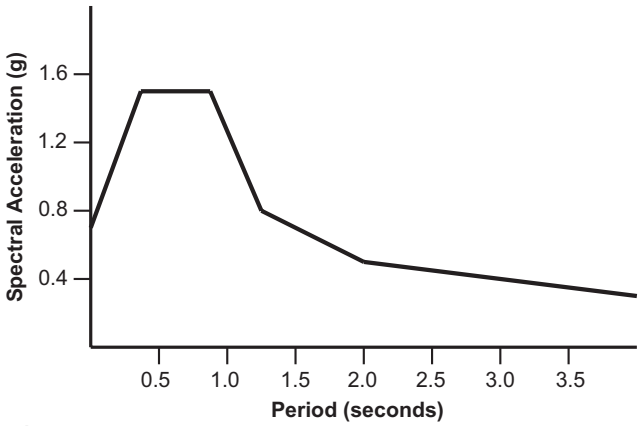
GENERAL NOTES
LOAD FACTOR DESIGN

Design: *Caltrans Bridge Design Specifications-April 2000 (LFD) (1996 AASHTO with Interims and Revisions by Caltrans)*

Seismic Design: ***Project Specific Seismic Design Criteria for the Dry Creek Bridge (Approved April 2001)***

Live Loading: *HS20-44 and alternative and permit design load*

Seismic Loading: ***Site Specific Acceleration Response Spectra Curve***



Reinforced Concrete:

f_y = 420 MPa

f'_c = 25 MPa

n = 8

Prestressed Concrete: *See "Prestressing Notes"*

Structural Steel: *ASTM A709 Grade 250*