



## General

Project Plans must be detailed and arranged in such a manner that a contractor can construct the project in accordance with these same plans. Contractors, and especially subcontractors, have a very short time to prepare a bid and cannot be expected to spend hours searching through our plans to find relevant details. When detailing or reviewing plans, the following items should be carefully observed:

1. If details or sections are not shown on the logical sheet to which they pertain, a cross reference should be noted on the plans. If this is necessary, a note should be placed on the appropriate sheet to refer to the location. Normally sections should be referenced only in one direction.
2. Names are preferred to abbreviations. If abbreviations are used, make sure they are the accepted ones. (See Section 1-1.02 of the *Standard Specifications*, Standard Plan A10A, A10B and B0-1 of the *Standard Plans*, and the Appendix A of *Bridge Design Details*.)
3. Dimensioning should generally not appear in more than one place in the contract plans. Dimension duplication may create a problem if a dimension is changed on one detail and not another.
4. The logical plan order is:
  - GENERAL PLAN
  - STRUCTURE PLAN
  - INDEX TO PLANS
  - DECK CONTOURS
  - FOUNDATION PLAN
  - ABUTMENTS
  - BENTS
  - TYPICAL SECTION
  - GIRDER LAYOUT
  - GIRDER REINFORCEMENT
  - LOG OF TEST BORINGS
5. Additional Plan Details and insertable Bridge Standard sheets are generally placed after the Girder Reinforcement Sheet.
6. If required, Structures Plans and/or Staging Plans are generally placed after the General Plan sheets.
7. Index to Plan Sheet will include Index to Plans, Standard Plans List, General notes and Concrete Strength and Pay Limits. Space permitting, tables (ex.: Pile Data Table) may be placed on this sheet.
8. Details/notes, such as the Camber Diagram or Prestress Notes will be placed on the Girder Layout sheet. If the detail/note cannot fit on the Girder Layout sheet, try placing the detail/note on the Girder Reinforcement sheet then the Typical Section sheet.

9. Leave a clear space on the General Plan for approximate quantities that will be provided by the Specifications & Estimates Branch. Quantities are typically four inches wide and one to three inches tall depending on the complexity of the project. If the quantities cannot fit on the General Plan, they can be placed on the Index to Plans sheet.
10. Overcrowding should be avoided. If all the details that normally appear on a particular sheet will result in overcrowding, use an additional sheet.
11. Not adhering to these rules frequently results in change orders and/or claims against the State.

### ***Mirrored Elevation***

An elevation view is usually a projection from the lower side of the plan view. There are occasions however, when the work being done is only on the upper side of the plan view (a widening, barrier rail replacement or retaining wall, for example). In this case a mirrored elevation is used, showing the view as if a reflected in a mirror, with the stationing shown left to right (see example). This view shall be titled "MIRRORED ELEVATION."

### ***Developed Elevation***

A developed elevation is used when the radius of a structure is such that a projected elevation would not show an accurate view of the structure. The developed elevation shows the true length of the structure as though it were on a straight line (see example). This view shall be titled "DEVELOPED ELEVATION."

### ***Existing Structures***

Dimensions (including existing radii) on a structure should include a "+/-."

Stationing, bearing and curve data are provided by the district and are NOT shown with a +/- . Overall final dimension (Station Line to edge of deck, as in a widening) should NOT be +/- (see example).

The note "THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL." shall be placed in the lower left corner of the General Plan sheet and in the same location on any other sheet where existing dimensions are shown. When in doubt, show it on every sheet.

### ***Detail And Sheet Callouts***

Notes referring to a specific detail shall show the exact detail title (ALL CAPS) with quotation marks:



"SECTION C-C"    "TYPICAL SECTION"    "TOP REINFORCEMENT"

Notes calling out detail(s) found on a different sheet shall show the exact sheet name (ALL CAPS) with quotation marks:

"GENERAL PLAN"    "STRUCTURE PLAN NO.1"    "FOUNDATION PLAN"

### ***Project Plan Sheet***

A very large project, such as a complex interchange, may require the use of a PROJECT PLAN sheet, showing the overall Plan (identifying the various structures), but without Elevations or Typical Sections. The Index To Plan should be included on this sheet, if possible. A GENERAL PLAN and, if necessary, STRUCTURE PLANS are shown for each structure in the project.

### ***Structure Plan Sheet***

The General Plan sheet typical shows Plan, Elevation and Typical Section views, alignment and Profile Grade. For long structures it may be necessary to show the plan, elevation and profile grade on Structure Plan sheets, using as many sheets (with a DETAIL sheet border) as necessary at a minimum scale of 1"=30'.

A Structure Plan sheet for a retaining wall does not usually have a Plan view. The Elevation view will show the spacing of tiebacks and piles.

When Structure Plan sheets are used, the General Plan sheet is simplified, with the Plan shown at a scale that displays the entire structure. The Elevation and Profile Grade are not shown on this sheet. The Typical Section may be shown unless there are ramps or the structure width varies substantially enough that they are better displayed on a separate sheet. The Structure Plan sheets shall immediately follow the General Plan sheet:

GENERAL PLAN  
INDEX TO PLANS (only if not enough room on general plan)  
STRUCTURE PLAN NO. 1  
STRUCTURE PLAN NO. 2  
PILE DATA (if needed)  
DECK CONTOURS NO. 1

### ***Index To Plans***

The Index To Plans and the Standard Plans shall be shown either on the General Plan or, if there is not enough room on this sheet, on a separate sheet titled "INDEX TO PLANS". The Index To Plans and Standard Plans shall show the exact name of each sheet in all caps. A typical Index To Plans is shown below:

#### ***Index To Plans***

1. General Plan
2. Index To Plans\*
3. Structure Plan No.1
4. Structure Plan No.2
5. Pile Details\*
6. Deck Contours
7. Foundation Plan
8. Abutment Details
9. Bent Details
10. Typical Section
11. Girder Layout
12. Girder Reinforcement
13. Structure Approach type N (30S)\*\*
14. Log of Test Borings

#### ***Standard Plans Dated May 2006***

- A10A Acronyms and Abbreviations (Sheet 1 of 2)\*\*\*
- A10B Acronyms and Abbreviations (Sheet 2 of 2)\*\*\*
- A10C Symbols (Sheet 1 of 2)\*\*\*
- A10D Symbols (Sheet 2 of 2)\*\*\*
- BO-1 Bridge Details

\* If needed

\*\* XS sheet are insertable Bridge standard sheets and ALWAYS follow sheets drawn specially for the project but precede Log Of Test Boring sheets

\*\*\* These sheets are included in EVERY project



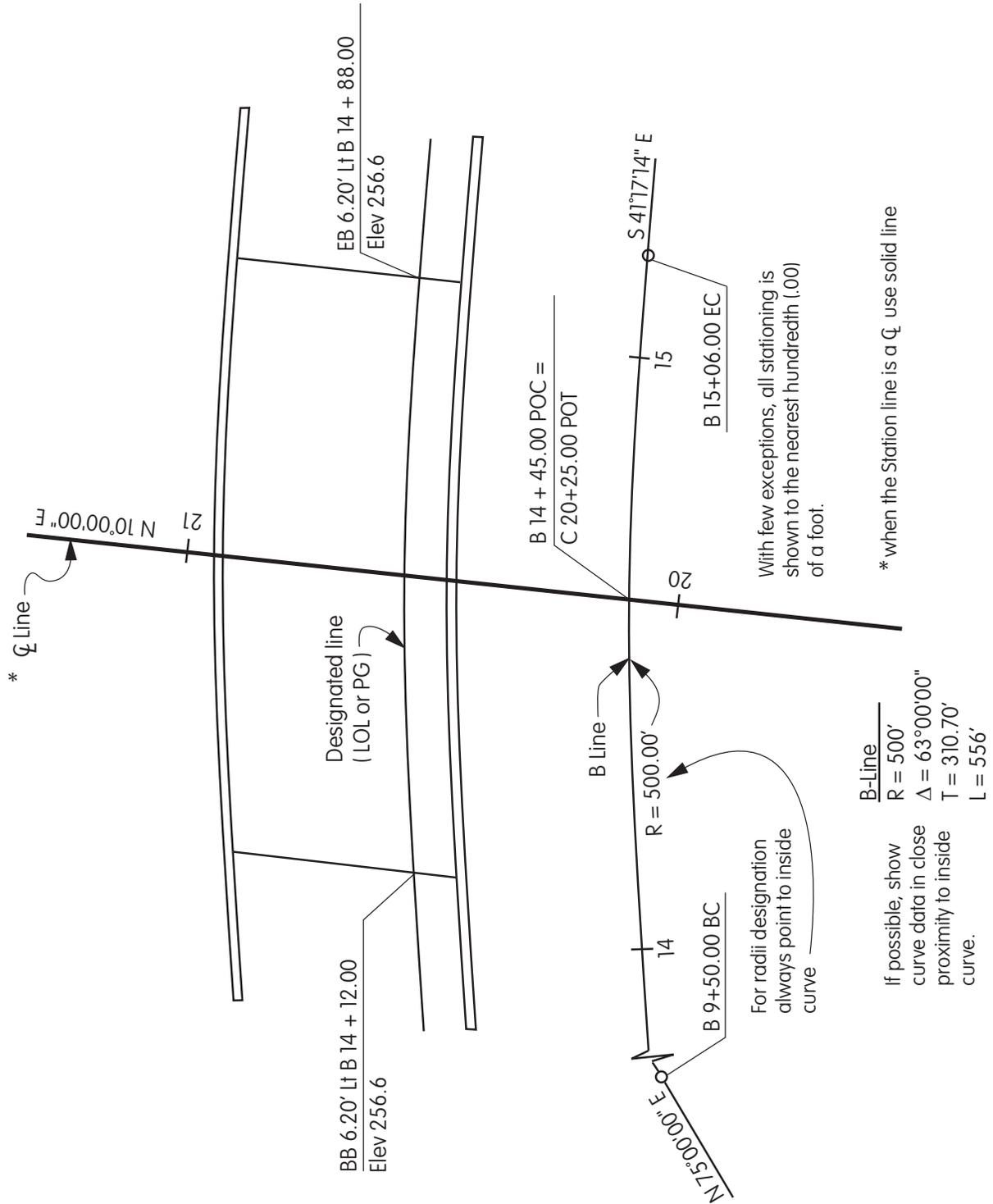
***Names On Plan Sheets***

<i>Design</i>	<i>Checked</i>	<i>Same name as Detail Checker (no exceptions)</i>
<i>Details</i>	<i>Checked</i>	<i>Same name as Design Check (no exceptions)</i>
<i>Quantities</i>	<i>Checked</i>	

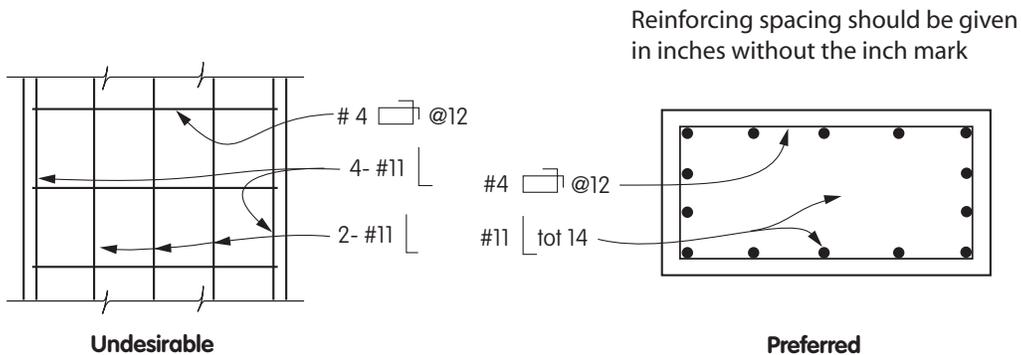


Caltrans

# Stationing and Curve Data

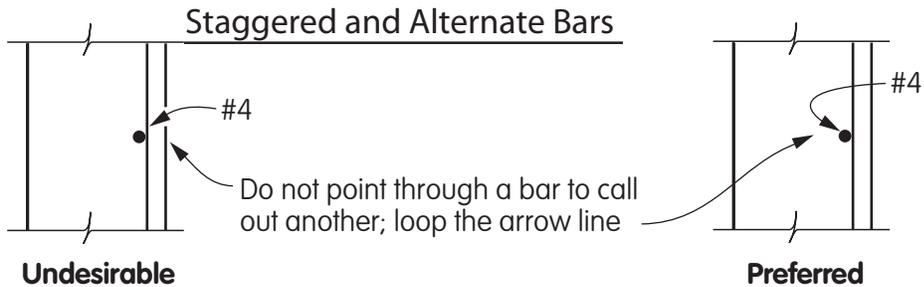
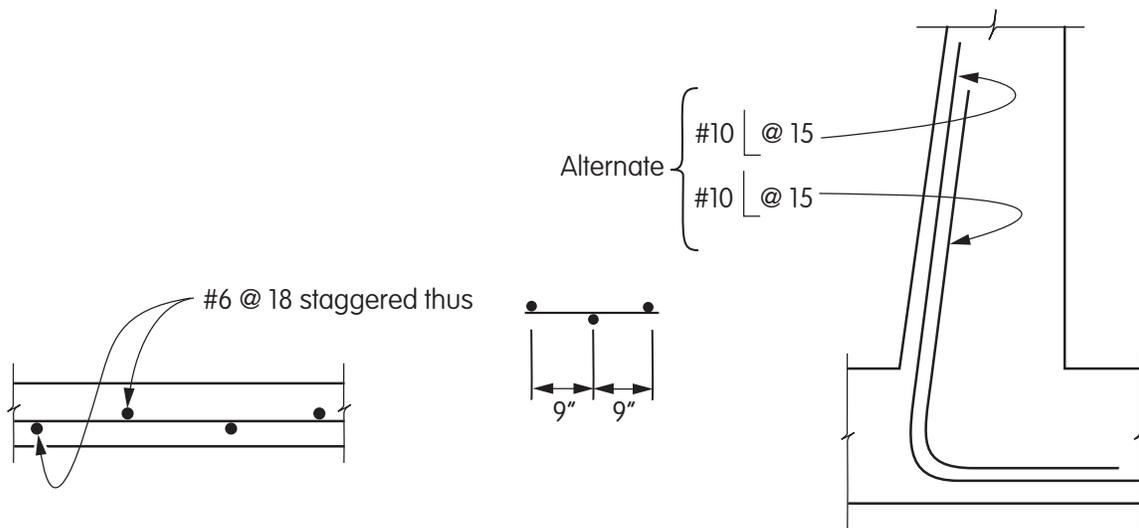




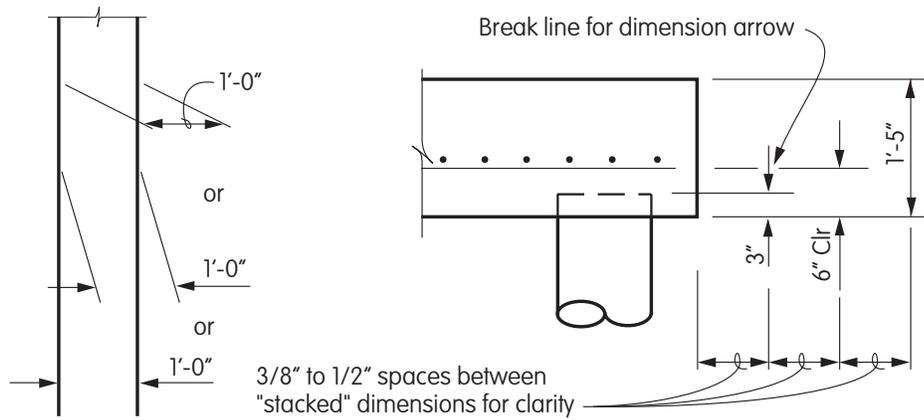
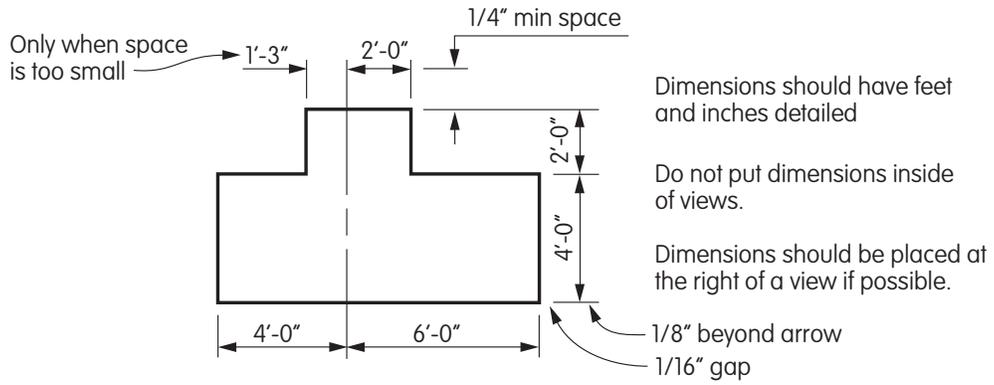


It is generally clearer to show reinforcing in a section, (as shown to the right), rather than on an elevation.

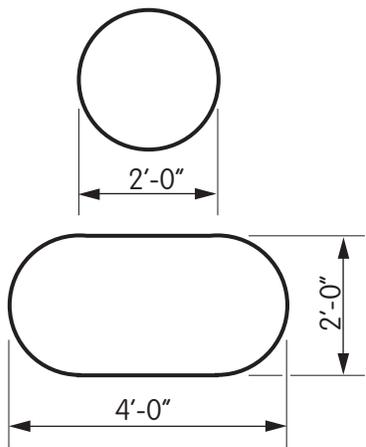
Reinforcing in Two Plans



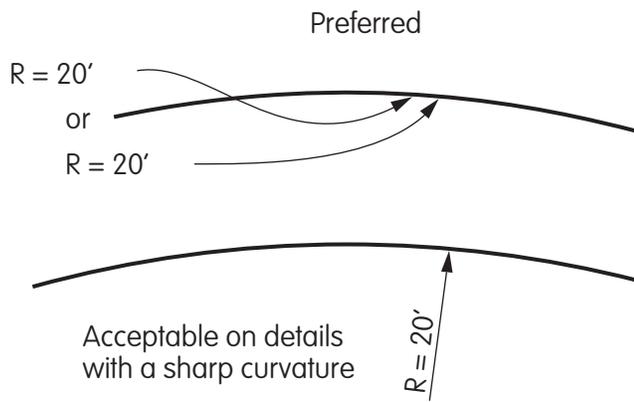
Two Layers of Reinforcing



**Rectangular views**



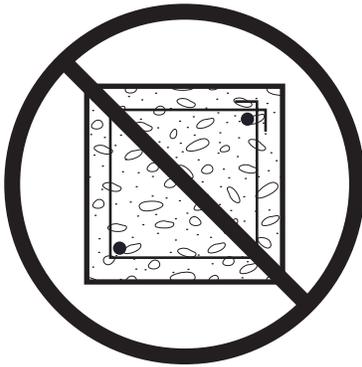
**Circular Sections**



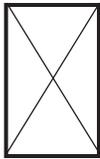
**Radii Designations**

*Circular views*

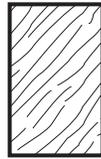
## Section Hatching



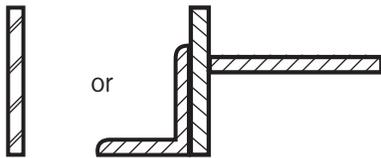
Do not show the sand and aggregate in any concrete section



Section of timber or lumber



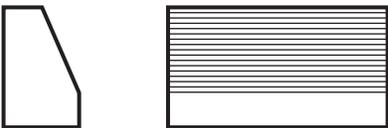
End view of timber or lumber



Cross hatch metal in large scale (1/2"=1'-0" or more) when two or more pieces are shown. Hatch alternate direction on pieces to clearly define limits.



Avoid shading lines on rounded or sloping surfaces. When needed to clarify a detail, space the shading lines a minimum of 1/16".



A section or view defines the shape more clearly than shading.



## Decimal Equivalents

Fraction of an Inch	Decimal of a Foot											
	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
0	0	0.0833	0.1667	0.2500	0.3333	0.4167	0.5000	0.5833	0.6667	0.7500	0.8333	0.9167
1/16	0.0052	0.0885	0.1719	0.2552	0.3385	0.4219	0.5052	0.5885	0.6719	0.7552	0.8385	0.9219
1/8	0.0104	0.0938	0.1771	0.2604	0.3438	0.4271	0.5104	0.5938	0.6771	0.7604	0.8438	0.9271
3/16	0.0156	0.0999	0.1823	0.2656	0.3490	0.4323	0.5156	0.5990	0.6823	0.7656	0.8490	0.9323
1/4	0.0208	0.1042	0.1875	0.2708	0.3542	0.4375	0.5208	0.6042	0.6875	0.7708	0.8542	0.9375
5/16	0.0260	0.1094	0.1927	0.2760	0.3594	0.4427	0.5260	0.6094	0.6927	0.7760	0.8594	0.9427
3/8	0.0313	0.1146	0.1979	0.2813	0.3646	0.4479	0.5313	0.6146	0.6979	0.7813	0.8646	0.9479
7/16	0.0365	0.1198	0.2031	0.2865	0.3698	0.4531	0.5365	0.6198	0.7031	0.7865	0.8698	0.9531
1/2	0.0417	0.0125	0.2083	0.2917	0.3750	0.4583	0.5417	0.0625	0.7083	0.7917	0.8750	0.9583
9/16	0.0469	0.1302	0.2135	0.2969	0.3802	0.4635	0.5469	0.6302	0.7135	0.7969	0.8802	0.9635
5/8	0.0521	0.1354	0.2188	0.3021	0.3854	0.4688	0.5521	0.6354	0.7188	0.8021	0.8854	0.9688
11/16	0.0573	0.1406	0.2240	0.3073	0.3906	0.4740	0.5573	0.6406	0.7240	0.8073	0.8906	0.9740
3/4	0.0625	0.1458	0.2292	0.3125	0.3958	0.4792	0.5625	0.6458	0.7292	0.8125	0.8958	0.9792
13/16	0.0677	0.1510	0.2344	0.3177	0.4010	0.4844	0.5677	0.6510	0.7344	0.8177	0.9010	0.9844
7/8	0.0729	0.1563	0.2396	0.3229	0.4063	0.4896	0.5729	0.6563	0.7396	0.8229	0.9063	0.9896
15/16	0.0781	0.1615	0.2448	0.3281	0.4115	0.4948	0.5781	0.6615	0.7448	0.8281	0.9115	0.9948
1	0.0833	0.1667	0.2500	0.3333	0.4167	0.5000	0.5833	0.6667	0.7500	0.8333	0.9167	1.0000

Fraction of an Inch	Decimal of an Inch	Fraction of an Inch	Decimal of an Inch
0	0	9/16	0.5625
1/16	0.0625	5/8	0.6250
1/8	0.1250	11/16	0.6875
3/16	0.1875	3/4	0.7500
1/4	0.2500	13/16	0.8125
5/16	0.3125	7/8	0.8750
3/8	0.3750	15/16	0.9375
7/16	0.4375	1	1.0000
1/2	0.5000	-	-

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70	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	{	}	~																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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65/64	593	867/64	594	869/64	595	871/64	596	873/64	597	875/64	598	877/64	599	879/64	600	881/64	601	883/64	602	885/64	603	887/64	604	889/64	605	891/64	606	893/64	607	895/64	608	897/64	609	899/64	610	901/64	611	903/64	612	905/64	613	907/64	614	909/64	615	911/64	616	913/64	617	915/64	618	917/64	619	919/64	620	921/64	621	923/64	622	925/64	623	927/64	624	929/64	625	931/64	626	933/64	627	935/64	628	937/64	629	939/64	630	941/64	631	943/64	632	945/64	633	947/64	634	949/64	635	951/64	636	953/64	637	955/64	638	957/64	639	959/64	640	961/64	641	963/64	642	965/64	643	967/64	644	969/64	645	971/64	646	973/64	647	975/64	648	977/64	649	979/64	650	981/64	651	983/64	652	985/64	653	987/64	654	989/64	655	991/64	656	993/64	657	995/64	658	997/64	659	999/64	660	1001/64	661	1003/64	662	1005/64	663	1007/64	664	1009/64	665	1011/64	666	1013/64	667	1015/64	668	1017/64	669	1019/64	670	1021/64	671	1023/64	672	1025/64	673	1027/64	674	1029/64	675	1031/64	676	1033/64	677	1035/64	678	1037/64	679	1039/64	680	1041/64	681	1043/64	682	1045/64	683	1047/64	684	1049/64	685	1051/64	686	1053/64	687	1055/64	688	1057/64	689	1059/64	690	1061/64	691	1063/64	692	1065/64	693	1067/64	694	1069/64	695	1071/64	696	1073/64	697	1075/64	698	1077/64	699	1079/64	700	1081/64	701	1083/64	702	1085/64	703	1087/64	704	1089/64	705	1091/64	706	1093/64	707	1095/64	708	1097/64	709	1099/64	710	1101/64	711	1103/64	712	1105/64	713	1107/64	714	1109/64	715	1111/64	716	1113/64	717	1115/64	718	1117/64	719	1119/64	720	1121/64	721	1123/64	722	1125/64	723	1127/64	724	1129/64	725	1131/64	726	1133/64	727	1135/64	7

## Useful Angles

	<i>Batter</i>	<i>Angle from Vertical</i>	
		<i>D°M'S"</i>	<i>Decimal</i>
<i>Batters</i>	1/2:12	2° 23' 09.4"	2.3859
	5/8:12	2° 58' 53.26"	2.9815
	3/4:12	3° 34' 34.8"	3.5763
	7/8:12	4° 10' 13.57"	4.1704
	1:12	4° 45' 49.11"	4.7636
	1:6	9° 27' 44.36"	9.4623
	1:4	14° 02' 10.48"	14.0362
	1:3	18° 26' 05.82"	18.4349
	<i>Slope</i>	<i>Angle from Horizontal</i>	
	<i>English</i>	<i>D°M'S"</i>	<i>Decimal</i>
<i>Slopes</i>	1/2:1	63° 26' 05.82"	63.4349
	1:1	45° 00' 00.00"	45.0
	1 1/2:1	33° 41' 24.24"	33.6901
	2:1	26° 33' 54.18"	26.5651
	3:1	18° 26' 05.82"	18.4349
	4:1	14° 02' 10.48"	14.0362
	<i>Grade</i>	<i>Angle from Horizontal</i>	
		<i>D°M'S"</i>	<i>Decimal</i>
<i>Grades</i>	1%	0° 34' 22.58"	0.5729
	1 1/2%	0° 51' 33.74"	0.8594
	2%	1° 08' 44.75"	1.1458
	2 1/2%	1° 25' 55.55"	1.4321
	3%	1° 43' 06.09"	1.7184
	4%	2° 17' 26.20"	2.2906
	5%	2° 51' 44.56"	2.8624
	6%	3° 26' 0.107"	3.4336
	7%	4° 00' 15.02"	4.0042
	8%	4° 34' 26.12"	4.5739
	9%	5° 08' 33.95"	5.1428
	10%	5° 24' 38.14"	5.7106
	11%	6° 16' 38.27"	6.2773
	12%	6° 50' 33.98"	6.8428
12 1/2%	7° 07' 30.06"	7.1250	
15%	8° 31' 50.76"	8.5308	



## **Project Plans Made from As-Built plans image**

When As Built Plans are used for contract plans, the following procedures must be followed:

As Builts, used for information only, must have a statement to that effect noted in conspicuous place.

When making up the "Index to Plans," indicate that this is an "As Built" drawing, thus:

### ***Abutment A4 38 ~ As Built***

As Builts, used as detail sheets, should be scanned and placed into the present title block format and must be checked to see that details and nomenclature meet the present Standard Specifications and design criteria.

## Abbreviations

### ***General rules for abbreviations***

Abbreviations should not be used where the meaning may be in doubt. In case of doubt, it is best to spell out the word.

In general, it is considered best not to use conventional signs in the text of notes or in the general notes. For example, use 8 cu ft per sec rather than 8 cu ft/sec and 6 lb rather than 6#.

On the General Plan Sheet, avoid abbreviations. On the other sheets, abbreviations may be used if necessary. See Appendix A for list of acceptable abbreviations. Abbreviations spelling and case must conform to Caltrans standards.

### ***Omission of periods***

The omission of periods after abbreviations is recommended by the International Committee on Weights and Measures for metric units and is advocated by the American Standards Association Sectional Committee on scientific symbols and abbreviations which are not complete English words. The ASCE follows this practice while many publications do not. For example, 60 cu ft rather than 60 cu. ft.

The omission of periods saves time, labor, and space and does not reduce readability. Abbreviations that would spell out complete English words *must have* periods after them, such as in., figs., and no.

### ***Modifiers***

Modifiers are hyphenated. For example, one -1"  $\phi$  bolt. Apostrophes are not recommended. With very few exceptions, such as figs., and nos., etc., the abbreviation of the plural is the same as the singular. For example: 22 lb, 40 cuyd, 25 in., 30 ft, 70 gal, etc.

### ***Phrases describing work or materials***

When abbreviating a phrase describing work or material, the noun should be spelled out in full. Examples are:

- CIDH concrete piles;
- CIP P/S concrete;
- AC dike;
- CL-6 fence.

Exceptions are very common items such as PSP and PCC, or other terms shown on Standard Plans A10A and B0-1.

## Titles and title blocks

Spell out all words in titles (i.e., write out: ELEVATION, PLAN, SECTION A-A, etc.) and in title blocks (see examples below).

**NOTE:** Acceptable abbreviations -- e.g., OC, ST, AVE, etc., permitted when space is limited.

BRIDGE NO.	SMITH AVENUE OVERCROSSING
POST MILE	
	GENERAL PLAN

BRIDGE NO.	SMITH AVENUE OVERCROSSING
POST MILE	
	TYPICAL SECTION

BRIDGE NO.	SMITH AVENUE OVERCROSSING
POST MILE	
	EXPANSION JOINT DETAILS

# Sheet title blocks and signature blocks

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC	680,580	1.6/2.7;6.1/8.5	68	136
			6-1-2005		
date of authorization			JUNE 26, 2005		
PLANS APPROVAL DATE					

Typical Index Block with signature, registered project engineer name (ALL CAPS), and no., and date. Used on Project Plan, Structure Plan, General Plan, Detail Sheets, and Bridge Standard Detail Sheets (XS Sheets).

**Note:** Signatures are placed electronically with date of authorization.

BRIDGE NO.	WILLOW WOOD UNDERPASS					
100020R						
POST MILE	GENERAL PLAN					
6.2						
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES				SHEET	OF
→	1-20-00				1	10

Typical Sheet Title Block for Project Plan, Structure Plan, General Plan, and Detail Sheets.

Senior Bridge Engineer			
DESIGN ENGINEER	DESIGN	BY	CHECKED
	DETAILS	BY	CHECKED
	QUANTITIES	BY	CHECKED
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (Rev. 10/25/05)			

Design Engineer Block for Project Plan and General Plan.

**NOTE:** Design Engineer name shall be printed.

WILLOW WOOD UNDERPASS						
BRIDGE NO.	SOUND WALL - WOOD PLANK					
100020R						
POST MILE	DETAILS NO. 1					
6.2						
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES				SHEET	OF
→	1-20-00				1	10

Typical Sheet Title Block for Bridge Standard Detail Sheets (XS Sheets).

STANDARD DRAWING					
FILE NO. XS 99-50	DESIGN	BY Al Anderson	CHECKED Diane Dietz	APPROVAL RECOMMENDED BY	
DRAWING DATE 2/92	DETAILS	BY Bob Brown	CHECKED Ed Ellis	 DESIGN SUPERVISOR	
	SUBMITTED BY Cindy Clark 12/91				
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (Rev. 10/25/05)					

Typical Signature Block for Bridge Standard Detail Sheets (XS Sheets).

**NOTE:** Signatures made by hand must be in black ink.



## Electronic Signatures (XS Sheets) -- Form DS-D-0005

When a Bridge Standard Detail Sheet (XS Sheet) is created or revised permanently, a checkprint along with *Authorization for Use of Electronic Signature for Bridge Standard Detail Sheets (XS Sheets)* (Form DS-D-0005) will then be sent to the Design Supervisors for final approval and signatures before release. The original of this form (signed by the Design Supervisor) together with a reduced hard copy of the XS Sheet (signed by the Technical Committee Chairperson) will be kept by Technical Publications in a back-up data file.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

AUTHORIZATION FOR USE OF ELECTRONIC SIGNATURE	
<i>Enter information into boxed areas below this line. Enter names as they appear in Lotus Notes Directory.</i>	
I, the undersigned, on the date noted, following my signature, hereby authorize my signature to be electronically placed on the following listed plan sheet(s):	
<div style="border: 1px solid black; height: 150px;"></div>	
Additional Comments:	
<div style="border: 1px solid black; height: 30px;"></div>	
for the project in the County(s) of:	<div style="border: 1px solid black; width: 100%;"></div>
Route(s):	<div style="border: 1px solid black; width: 100%;"></div>
Post Mile/Kilo Post:	<div style="border: 1px solid black; width: 100%;"></div>
District/EA:	<div style="border: 1px solid black; width: 100%;"></div>
<b>The information below should be filled in by hand.</b>	
Signature	Date
<div style="border: 1px solid black; width: 100%;"></div>	<div style="border: 1px solid black; width: 100%;"></div>
Name	<div style="border: 1px solid black; width: 100%;"></div>
Title	<div style="border: 1px solid black; width: 100%;"></div>
Registration Number	<div style="border: 1px solid black; width: 100%;"></div>
Expiration Date	<div style="border: 1px solid black; width: 100%;"></div>
For Official Use Only	
<div style="border: 1px solid black; width: 100%;"></div>	

[http://onramp.dot.ca.gov/hq/esc/sd/electronic\\_procedures\\_forms.shtml](http://onramp.dot.ca.gov/hq/esc/sd/electronic_procedures_forms.shtml)  
(ESH 04-01-2008)

Contact Bridge Detailing Committee  
Chairperson for comments or changes

## Revision Dates

On CADD generated plan sheets, a new revision date must be indicated every time a change is made to a sheet.

BRIDGE NO.											
Post Mile	<b>GENERAL PLAN</b>										
DISERGARD PRINTS BEARING DARLIER REVISION DA TES		REVISION DATES									
		<del>1/23/01</del>	<del>1/16/01</del>	<del>2/18/01</del>	<del>2/23/01</del>	4/17/01					

NOTE: This procedure applies during the Plans, Specification and Estimates stage only (PS&E stage). See "Late Plan Changes," page 1-25, for subsequent revisions.

When all "Revision Date" boxes have been filled, retain first revision date, delete second and leave blank and change third and others as shown below:

BRIDGE NO.											
Post Mile	<b>GENERAL PLAN</b>										
DISERGARD PRINTS BEARING DARLIER REVISION DATES		REVISION DATES									
		7/3/01	<del>2/28/01</del>	<del>2/21/01</del>	<del>4/17/01</del>	<del>5/08/01</del>	<del>5/16/01</del>	<del>5/19/01</del>	<del>6/3/01</del>	<del>6/23/01</del>	

↖ leave blank  
 ↖ start revision dates from here

## Use of Standard Plans

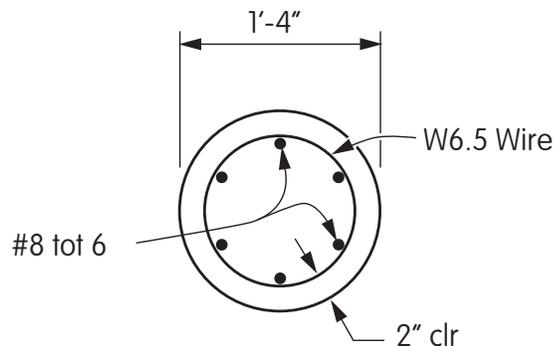
The Department of Transportation issues a book of "Standard Plans" which includes Bridge Standard Plans. This book is an official part of the contract for all projects.

### ***Process for permanently revising or creating a new Standard Plan***

1. Initiator is responsible for obtaining approval from the Technical Committee prior to submittal to Technical Publications.
2. Send *Bridge Standard Detail Sheet/Standard Plan – Request For Revisions/New Sheet* (Form DS-D0006) to Technical Publications with redline changes shown on a reduced copy of the Standard Plan.
3. When changes have been made, a checkprint will be returned to the initiator for approval. If approved or if more changes or corrections are needed, initiator returns checkprint to Technical Publications.
4. When changes are finalized and ready for release or re-release, the initiator will be notified.
5. FHWA approval is required for both new and revised Standard Plans. Approval will be obtained by Technical Publications.

### ***Modified only for specific project***

If a detail shown on a Standard Plan sheet is to be modified or replaced, a new detail will be drawn on a regular plan sheet with the modifications and the following note. (See example below.)



### **SECTION A-A**

$3/4" = 1'-0"$

#### NOTE

This special detail supersedes "Section A-A" on Sheet No. B2-3, page 240 of the Standard Plans dated May 2006.

## Form DS-D0006

Check appropriate box (Revision to Standard Plan or new Standard Plan) and provide all information.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

### BRIDGE STANDARD DETAIL SHEET (XS SHEET) / STANDARD PLAN – REQUEST FOR REVISIONS / NEW SHEET

DS-D0006 (REV. 11/92)

INITIATOR	PHONE NO.	DATE
SHEET NO. (If new XS Sheet, Sheet No. will be assigned by Technical Publications)		
TITLE OF SHEET		

*Instructions:*

1. Initiator is responsible for obtaining approval from the Technical Committee prior to submittal to Technical Publications.
2. Send this request to Technical Publications with redline changes shown on a reduced copy of the Bridge Standard Detail Sheet (XS Sheet) or Standard Plan.
3. When changes have been made, a checkprint will be returned to the initiator for approval. If approved or if more changes or corrections are needed, initiator returns checkprint to Technical Publications.
4. When changes are finalized and ready for release or re-release, the initiator will be notified.
5. FHWA approval is required for both new and revised Standard Plans. Approval will be obtained by Technical Publications.

- |  |  |
|--|--|
| <input type="checkbox"/> Revision to Bridge Standard Detail Sheet (XS Sheet) | <input type="checkbox"/> Revision to Standard Plan (RSP) |
| <input type="checkbox"/> New Bridge Standard Detail Sheet (XS Sheet)         | <input type="checkbox"/> New Standard Plan (NSP)         |

REMARKS OR INSTRUCTIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TECHNICAL COMMITTEE CHAIRPERSON'S APPROVAL 	DATE
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## Use of Bridge Standard Detail Sheets (XS Sheets)

Bridge Standard Detail Sheets are plans which are used repetitively and therefore are more economical to print from a master copy rather than to detail it individually. It is the responsibility of the designer to ensure that the standard used is compatible with the design and details of a specific structure. These sheets are inserted in the contract plans as detail sheets and are signed by the Project Engineer.

### ***Creating Bridge Standard Detail Sheets***

1. After obtaining approval from the Technical Committee, the initiator is required to submit a CADD drawing along with a *Bridge Standard Detail Sheet (XS Sheet)/Standard Plan – Request for Revisions/New Sheet* (Form DS-D-0006) to Technical Publications. Technical Publications will then assign an XS number to the new sheet.

***IMPORTANT:*** When a CADD drawing is created, the standard settings for weights, colors, levels, text, etc., ***must*** be used. For standard default settings see *CADD Users Manual*.

2. A checkprint will be returned to the initiator for approval. If changes are needed, the initiator will return a checkprint to Technical Publications, showing redline changes or corrections. If approved, the initiator will return the checkprint to Technical Publications with a signature indicating that it is approved.
3. A checkprint along with *Authorization for Use of Electronic Signature for Bridge Standard Detail Sheets (XS Sheets)* (Form DS-D-0005; see page 1-13.1) will then be sent to the Design Supervisors for final approval and signatures before release. When changes are finalized and ready for release, the initiator will be notified.

### ***Permanently revising Bridge Standard Detail Sheets***

1. Initiator is responsible for obtaining approval from the Technical Committee prior to submittal to Technical Publications.
2. Send the *Bridge Standard Detail Sheet (XS Sheet)/Standard Plan – Request for Revisions/New Sheet* (Form DS-D-0006) to Technical Publications with redline changes shown on a reduced copy of the Bridge Standard Detail Sheet.
3. When changes have been made, a checkprint will be returned to the initiator for approval. If approved or if more changes or corrections are needed, initiator returns checkprint to Technical Publications.
4. A checkprint along with *Authorization for Use of Electronic Signature for Bridge Standard Detail Sheets (XS Sheets)* (Form DS-D-0005, see page 1-13.1) will then be sent to the Design Supervisors for final approval and signatures before release. When changes are finalized and ready for release the initiator will be notified.

### ***Modifying Bridge Standard Details Sheets for a Specific Project***

Bridge Standard Detail Sheets which require modifications to make them compatible with the details for a specific job will be prepared with the detail sheets for a specific job and considered as job details. These sheets should include the following information:

1. Revisions will be indicated by a diamond shaped symbol (◊) placed near the revised portion of the detail. A revision number will be placed inside the diamond. (Example: ◊2.) Consecutively numbered diamonds will be used to indicate multiple changes.
2. Corresponding symbols and brief explanations will be placed in the border at bottom left center.
3. The drawing date will be removed and the word "REVISED" added.
4. Add "SPECIAL DETAILS" directly above the bridge title block.
5. If more than one revised Bridge Standard Detail Sheet is needed for any particular job, the revision numbers (Example: ◊1, ◊2, etc.) shall begin anew with each revised sheet.
6. If major revisions are required it is preferable to draw a new sheet instead.

Modifications that basically change a pay item, (such as fences or railing) must be accompanied by a change in identification of that item, since the change automatically cancels the standard classification.

### ***Latest Standards***

It is the responsibility of the Project Engineer preparing the plans to see that the latest Bridge Standard Detail Sheets are incorporated into the plans at the time they are sent to DES OE.



### Form DS-D0006

Check the appropriate box (Revision to Bridge Standard Detail Sheet or New Bridge Standard Detail Sheet) and provide all information.

STATE OF CA  
**BRIDGE STANDARD DETAIL SHEET (XSHEET)**  
**REQUEST FOR REVISIONS / NEW SHEET**  
DE - /ATPGS (RE . /2007)

INITIATOR	PHONE NO.	DATE
SHEET NO. (If new XS Sheet, Sheet No. will be assigned by the Office of Technical Publications and Graphic Services)		
TITLE OF SHEET		

**INSTRUCTIONS:**

- Initiator is responsible for obtaining approval from the Technical Committee or, if no committee exists, from the Technical Specialist, prior to submitting a proposed standard detail or changes to an existing standard detail to the office responsible for the standard. Office responsibility is determined from committee or specialist reporting assignments.
- The initiator should send this form to the responsible office with an 11x17 copy of the proposed standard detail or revisions to the existing standard. Redline changes must be included with changes to existing standards.
- When changes have been made, a checkprint will be returned to the initiator for approval. If approved or if more changes or corrections are needed, initiator returns checkprint to responsible office.
- When changes are finalized and ready for release or re-release, the initiator will be notified.
- Finalized standard sheets, this form, copies of all supporting documentation including stamped calculations shall be sent to the responsible Office Chief for signature and release approval.
- The responsible Office Chief's signature will be electronically placed on the standard drawing for posting.
- The responsible office will send all supporting documentation, calculations, drawings and this form to the Technical Publications and Graphic Services Office for filing, and posting on the internet. Electronic drawings shall be provided in DGN format.

**Revision to Bridge Standard Detail Sheet**       **New Bridge Standard Detail Sheet**

REMARKS OR INSTRUCTIONS \_\_\_\_\_

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TECHNICAL COMMITTEE CHAIRPERSON'S OR TECHNICAL SPECIALIST'S APPROVAL	DATE _____
OFFICE CHIEF'S APPROVAL	DATE _____



## Use of CADD Cells or Components

Addition, modification, or deletion of cells or components should be coordinated through the appropriate Design Committee and submitted to the Structure's CADD Software Support Unit for implementation.



## **Transmittal of Project Plan Sets to DES Office Engineer at Expedite**

See Structure Design Electronic Procedures Manual for electronic submittal process.

## Late Plan Changes

### ***Transmitting late plan changes***

Occasionally, it may be necessary to revise plans after they have been sent to DES Office Engineer, but before they have been advertised. If this situation occurs, new plan sheet(s) must be prepared by the design section, reviewed by the specifications engineer, then sent to Office Engineer with Form DS-D0144 (*Changes To Contract Drawings*) illustrated on page 1-20.4.

### ***Revision: Changes before advertising***

*No changes* will be made to project plan sheets after they have been forwarded to the Office Engineer as part of the PS&E package without the *approval* of the *Project Engineer* from the Design Section involved. To assure that no unauthorized changes are made, Office Engineer personnel in charge of project plans will not allow anyone access to the project plans without this approval.

When changes are made to the project plans, it will be necessary to inform the Project Specifications Engineer so that the Engineer can meet his/her responsibility of making the Special Provisions and Engineers Estimate consistent with the plans.

### ***Addendum: Changes after advertising and before bid opening***

In order to be sure that all bidders have the same contract plan sheet, *no revisions* shall be made on project plans between the time the prints are made for *advertising* and the bid opening, *except* when a formal addendum is issued. An addendum is coordinated by the Structure Office Engineer.

During this period, requests to obtain the original project plans must include authorization from the Structure Office Engineer and plan files must be retrieved from DES Office Engineer.

## Revisions to Contract Plans

### ***CCO: Contract Change Order***

The original contract plan files may not be retrieved after Bid Opening and before the contract is approved.

Sheets needing revisions must be retrieved from the Structures CADD Software Support Unit using Form DS-D0 144E (*Request for Electronic Drawings*) illustrated on page 1-20.4.

When revisions to a sheet or additional or supplemental sheets are applicable to more than one bridge, each bridge shall have its own sheet.

### ***Revising, supplementing or adding contract plan sheets once that contract is approved.***

These changes are made by either:

1. Revisions
  - (a) Partial revisions (*adding, deleting, or revising existing details, text, etc.*), or,
  - (b) Total replacement of the original contract plan sheets.
2. Supplemental sheets (*additional information to supplement existing plans*).
3. Additional sheets (*new project plan sheet covering information not in the scope of the original contract plans*).

### ***Partial Revisions***

Partial revisions to the original contract plan sheets shall be made as illustrated on the example on page 1-20.5. Each revision to the original plan sheet must be clearly marked by an equilateral triangle placed near the revision. An identifying number placed within the triangle will refer to a revision block for identification. Like revisions in different places on the sheets shall bear the same number; unlike revisions shall be numbered consecutively. The revision block cell is available in the cell library.

The identifying number, a short description of the revision, the initials of the persons making and checking it, the date the CCO is to be transmitted and the Project Engineer signature shall be recorded in a revision block preferably placed in the lower right-hand corner of the sheet. The block may be manipulated if necessary to record subsequent revisions. See example on page 1-20.5. Do not reduce the size of the Engineer's Seal.

Add the letter "R" and a number after the sheet number in the upper right-hand title block. For example, the first revision to original sheet 68 becomes 68R1. When sheet

68R1 is to be revised, it shall be treated in the same manner as the original sheet, and the sheet number revised to read 68R2. The numbers following "R" will not necessarily correspond with the number in the triangles because it is quite possible that two or more revisions can be made each time. See example on page 1-31.

Place the "Cell" for the Contract Change Order No. just above, or as near as possible to, the sheet title block. Do not fill in the blanks for change order number or sheet number; they will be added by Structure Construction when the Change Order is prepared.

Do not revise the Approval date or signature or Date of Electronic signature authorization in the upper right-hand corner of the sheet.

Do not change Office Engineer "Total Sheets" number at top of revised sheet.

Upon completion of the revisions, the Design Branch will make reproductions for all interested parties and changes for electronic version.

### ***Total Replacement of Contract Plan Sheets***

The sheet replacing a contract plan sheet is prepared in the same manner as a usual contract plan sheet. A note identifying the sheet it replaces shall be placed as shown on the example on page 1-20.6. Number the sheets in the same manner as "PARTIAL REVISIONS" (upper right-hand corner). The Project Engineer Seal information, Signature, and the authorization date will be added.

Place the cell for the Contract Change Order No. just above, or as near as possible to, the sheet title block. Do not fill in the blanks for change order number or sheet number; they will be added by Structure Construction when the Change Order is prepared.

The identifying data from the original sheet should be completely filled in on the replacement sheet. This will enable everyone concerned to readily identify the job to which the sheet belongs.

Add the District, County, Route, Post Miles and sheet numbers in the Index Block at the top of the sheet. Normally, in the preparation of plans, the data above is left partially incomplete to be filled in by Office Engineer. A replacement sheet does not follow the same procedure. Unless it is completely filled in, it may cause confusion and lost time during routine handling after it leaves the Division of Structures.

Upon completion of the replacement sheet, the Design Branch will make for all interested parties.



### ***Supplemental sheets***

A supplemental sheet is prepared in the same manner as a usual contract plan sheet. Place the sheet number being supplemented in the Index block provided in the upper right-hand corner. This number must be suffixed with the letter "S", e.g. 68S, etc. Signature block and title block shall be prepared in the same manner as a usual contract plan sheet. Place "Supplemental Sheet" in the lower right-hand corner, immediately above the title block matching project title text. See example on page 1-20.5

Subsequent revisions can be made to a supplemental sheet in the same manner as for a revision to an original sheet. After a revision is made on a supplemental sheet, the sheet number would then become 68S R1, etc. See example on page 1-20.5

All identifying sheet data, including CCO Cell, and approval shall be handled as in "total replacement of original contract plan sheet."

### ***Additional sheets***

These sheets shall be handled the same as a Supplemental Sheet, except they shall follow the last sheet of the particular structure (usually the Log of Test Borings) and carry the same sheet number as the sheet they follow with the suffix of a letter. The first additional sheet will be "A", the second "B", etc. (i.e., 68A, 68B). Revisions to added sheets will be handled in a manner similar to Supplemental Sheets (i.e., 68A R1).

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC	680,580	1.6/2.7;6.1/8.5	68	136

 6-1-2005  
 REGISTERED ENGINEER - CIVIL



JUNE 26, 2005  
 PLANS APPROVAL DATE

Do not change this number

1. REVISIONS

- a) Revision to original contract plan sheets ..... 68 R1  
 Subsequent revisions to contract plan sheets ..... 68 R2, etc.
- b) Total replacement of a contract plan sheet ..... 68 R1
  - Add this note at top of sheets:

"This sheet replaces Sheet No. 68 of 136 of plans approved June 26, 2005"

2. SUPPLEMENTAL SHEETS

- Addition of supplemental sheet ..... 68 S
  - Add "Supplemental Sheet" above the lower righthand title block.

Revision of a supplemental sheet ..... 68 S R1

3. ADDITIONAL SHEETS

- Additional sheets ..... 68 A
- Revisions to additional sheets ..... 68A R1





## As-Built Plan Corrections

### *General*

Refer to Section 1-20 of the "Memos to Designers" for procedures on processing as-built plans.

### *Preparation of As-Built Corrections by OSC Structure Representative*

After a project has been completed in the field, the Structure Representative must prepare and submit to the Office of Structure Construction (OSC) "As-Built" corrections of the project plans.

Guidelines for preparing the field corrections are fully covered in Section 9-1.0 of the Bridge Construction Manual, but briefly, the corrections should:

- Be on reduced size (11" X 17") plans. Full sized plans may be used if changes are extensive.
- Show all on-the-job changes that were made during construction.
- Be marked in red on each hardcopy structure plan sheet. New/revised details shall be legible with additional notes to clarify details if needed.
- Be stamped with an as built stamp on each sheet of the structure plans. The stamp to use depends on whether or not there are changes to the sheet. The stamps must be similar to and contain the minimum information as the stamps below:

CONTRACT No. _____ DATE ACCEPTED _____ <b>AS BUILT</b> STRUCTURE REPRESENTATIVE _____ REVISIONS BY _____ DATE _____	CONTRACT No. _____ DATE ACCEPTED _____ <b>NO AS BUILT CHANGES</b> STRUCTURE REPRESENTATIVE _____ REVISIONS BY _____ DATE _____
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### ***Preparation of As-built Corrections by the Design Unit***

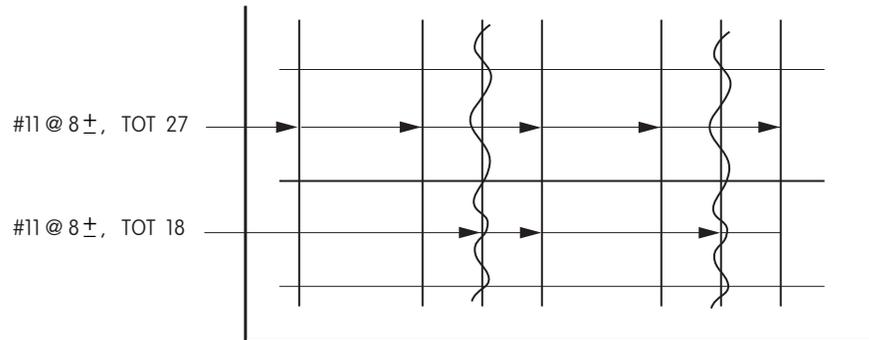
The Design Unit must make "As-Built" corrections to the official "Archived Contract Plans" which include "As-Awarded" plans and Contract Change Orders (CCO).

Changes must be made electronically on the "Archived Contract Plans" CADD files when they are available. If these CADD files are not available, changes must be made by hand using an "F" or softer lead pencil on "Archived Contract Plans" hardcopy plans. Refer to Section 1-20 of the "Memos To Designers" and to "Procedures for Processing Electronic Structures Contract Plans" for requirements on retrieving "Archived Contract Plans" CADD files and other procedures regarding as-built plans.

Preparation of As-built Corrections by the Design Unit cont.

In making changes to the "Archived Contract Plans" plans, details and notes shall not be deleted. Instead, draw a line through the item in such a manner that it will not be obliterated.

Example:



No corrections shall be made to the Log Of Test Borings file. When the maximum, minimum, and average pile tip elevations appear on the Log of Test Borings sheet, this information shall be transferred to the General Plan file.



### ***Stamping Final As-built plans - CADD Files***

Once changes are made to the "Archived Contract Plans" plan sheets, each sheet shall be stamped with an as-built stamp.

For changes to CADD files, one of the following As-Built cells shall be placed on the left edge of the border of each sheet and filled out:

A) When "As-Built" corrections were not received:

**AS DESIGNED AS-BUILTS NOT RECOVERABLE** Contract No.: xx - yyyyyy Date Processed: aa / bb / cccc  
Structure Rep: NAME

B) When the "As-Built" corrections were received and no corrections were needed:

**NO AS BUILT CORRECTIONS** Corrections Transferred by: Detailer Initials Date Transfer: aa / bb / cccc  
Structure Rep: Structure Rep name Field Corrections Date: aa / bb / cccc  
Contract No.: xx - yyyyyy

C) When "As-Built" corrections were received and corrections were needed:

**AS BUILT CORRECTIONS** Corrections Transferred by: Detailer Initials Date Transfer: aa / bb / cccc  
Structure Rep: Structure Rep name Field Corrections Date: aa / bb / cccc  
Contract No.: xx - yyyyyy

### ***Stamping Final As-built plans - Hardcopy***

For changes made on hardcopy plans, a stamp or decal with the information shown in the above CADD cell shall be placed on each sheet. Make sure the information is legible.