

PROJECT ASSESSMENT
PROCEDURE BULLETIN

BULLETIN 96-003

REVISED 07/08/2004

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ATTACHMENT 1 PAGE

HEADING: PROJECT ASSESSMENT - TEXT

SUBJECT: MAJOR AND MINOR STRUCTURES

Included in the Background Data Section of a Project Assessment is a standard statement about major and minor structures on the project.

The question has been raised on projects where no minor structures are required to be extended, replaced or modified, "What is the added value of spending hours going through as-built plans to count the number of minor structures, etc. just to satisfy the required statement in the P.A.?"

This is a valid concern and we are now revising the former standard language as shown on the revised attached P.A. example guide. Note the bullet in footnote four.

EXAMPLE*EXAMPLE*

B. BACKGROUND DATA

The ADOT Bridge Record shows 48 major structures¹ within the project limits. The bridge² locations are listed below:

<u>STR NO</u>	<u>MP</u>	<u>STRUCTURE NAME</u>	<u>SIZE</u>	<u>VERTICAL CLEARANCE</u> ³
#1413	59.15	CAP Canal BR EB	42'x107'	-
#1414	59.16	CAP Canal BR WB	42'x107'	-
#1282	59.47	Sore Finger Rd UP GS	26'x330'	EB 17'-5" WB 16'-10"
#1283	69.66	Ave 75 E TI UP	26'x331'	EB 16'-7" WB 16'-4"
#1285	70.11	Broken Wash RBC	3-10'x10'x45'-6"	-

There are 64 minor drainage structures (spans less than 20 feet) within the project limits. These include 11 CBC's and 53 CMP's.⁴

¹ FYI –For a structure to be defined as a major structure, it must have a span of 20 feet or greater. The span length is measured parallel to the center of the road. Remember the 20-foot span can be the summation of multiple spans (ex: 2-10'x10' CBC, 4-5'x10' CBC, 4-60" CMP and 2-8'x6' CBC on a 45° skew are all examples of major structures). A major structure is listed in the Bridge Record and has a structure number.

² FYI – Bridges listed here have spans twenty feet or greater and must meet at least one of the following criteria:
-The structure deck must directly carry traffic;
-There must be some type of bridge barrier (concrete barrier, bridge rail, guardrail, etc.).

CBC's covered by the roadway embankment are not part of this list.

³ FYI – Always compare the date on the bridge maintenance record to the date on the as-built plans to be sure the roadway was not overlaid after the most recent bridge inspection. The vertical clearance listed here is the latest recorded minimum vertical clearance (note-not the posted vertical clearance).

⁴ FYI – This paragraph may be omitted if no minor structures are required to be extended, replaced or modified. However, don't forget the following:

- The disposition of minor structures should be discussed during the Field Review with District Maintenance & District Construction. District Maintenance should identify any minor structures (pipes, etc.) that are a maintenance problem or which need to be replaced because of corrosion. The Project Team should also discuss if any pipes need to be extended to provide the recommended clear zone for safety considerations. If District Maintenance or District Construction do not attend the Field Review, contact should be made immediately after the field review. The intent is to document the minor structures in the Field Review meeting minutes which are distributed to the Project Team.