

Last Revised on: 1/27/14

JOB NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS

2.4-A1-1

STRUCTURE TYPES		SPAN RANGE, FT.	JAN 2014 COST RANGE \$ / FT <sup>2</sup>	SPAN RANGE, FT.																						
				30	60	90	120	150	180	210	240	270	300	330	360	390	420	450	480	510	540	570	600	630	660	690+
HYDAULIC STRUCTURES	PIPE	1 - 3	30 - 60																							
	CONCRETE CULVERT	3 - 20	100 - 120	—																						
	PLATE ARCH	12 - 20	65 - 80	—																						
STRUCTURES FOR CONVENTIONAL SITE CONDITIONS	REINF. CONCRETE SLAB	20 - 60	100 - 140	—																						
	REINF. CONCRETE TEE BEAM	30 - 60	100 - 150	—																						
	REINF. CONCRETE BOX GIRDER	50 - 120	200 - 275		—																					
	POST-TENSIONED CONC. BOX GIRDER	140 - 200	225 - 325			—																				
	SEGMENTAL P.T. BOX GIRDER	200 - 700	275 - 350				—																			
	PRESTRESSED CONC. SLAB	15 - 100	110 - 130	—																						
	PRESTRESSED CONC. DECK BULB TEE	40 - 160	110 - 150		—																					
	PRESTRESSED CONC. GIRDER	50 - 180	140 - 200		—																					
	PRESTRESSED TRAPEZOIDAL TUB GIRDER	40 - 140	175 - 225		—																					
	PRESTRESSED CONCRETE SPLICED GIRDER	140 - 230	175 - 225			—																				
	STEEL ROLLED GIRDER	20 - 70	150 - 175	—																						
	STEEL PLATE GIRDER	60 - 400	160 - 240		—																					
	STEEL BOX GIRDER	60 - 400	225 - 300		—																					
	STEEL TRUSS	300 - 1200	275 - 400								—															
	TIMBER	10 - 20	130 - 150	—																						
GLULAM TIMBER	14 - 40	130 - 150	—																							
STRUCTURES FOR SPECIAL SITE CONDITIONS	CABLE STAY BRIDGE	600 - 1200	550 - 650																			—				
	SUSPENSION BRIDGE	600 - 5000	900 - 1300																			—				
	FLOATING BRIDGE	600 +	900 - 1100																			—				
	ARCH BRIDGE	30 - 400	450 - 500	—																						
	MOVEABLE SPAN BRIDGE	200 - 350	2000 - 2500								—															
	TUNNEL	30 +	2000 - 3000	—																						

THIS CHART IS INTENDED TO SHOW SOME OF THE MANY OPTIONS AVAILABLE FOR BRIDGE CONSTRUCTION AND THE WIDE RANGE OF COSTS ASSOCIATED WITH THEM. THE ACTUAL COST TO BE USED IN ANY COMPARISON FOR A SPECIFIC PROJECT IS VERY SENSITIVE TO THE FACTORS OUTLINED IN SECTION 2.2.3. ANY COMPARISON MADE FOR A PROJECT SHOULD BE DONE UNDER THE GUIDANCE OF THE PRELIMINARY DESIGN UNIT OF THE BRIDGE AND STRUCTURES OFFICE.

Bridge Design Engr.	M:\BRIDGE\LIB\BDM\Chapter 2\window files\Bridge Selection Guide.wnd	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10 WASH.			
Designed By		JOB NUMBER			
Checked By					
Detailed By					
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist	DATE	REVISION	BY	APP'D	

**BRIDGE AND STRUCTURES OFFICE**



**Washington State Department of Transportation**

BRIDGE SHEET NO. \_\_\_\_\_

SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS