

**HYDRAULIC DATA**  
(Ultimate Condition)

Drainage Area = 2.40 sq. mi.

Q0T > Q252 = 3,845 cfs	Q25 = 2,800 cfs
V252 = 15.93 fps	V25 = 11.67 fps
Q252 HW = 1123.43	Q25 HW = 1118.45
Q2 = 1,100 cfs	Q50 = 3,198 cfs
V2 = 5.52 fps	V50 = 13.32 fps
Q2 HW = 1111.09	Q50 HW = 1120.19
Q5 = 1,700 cfs	Q100 = 3,537 cfs
V5 = 7.08 fps	V100 = 14.74 fps
Q5 HW = 1113.82	Q100 HW = 1121.83
Q10 = 2,164 cfs	Q500 = 4,092 cfs
V10 = 9.02 fps	V500 = 16.27 fps
Q10 HW = 1116.06	Q500 HW = 1124.06

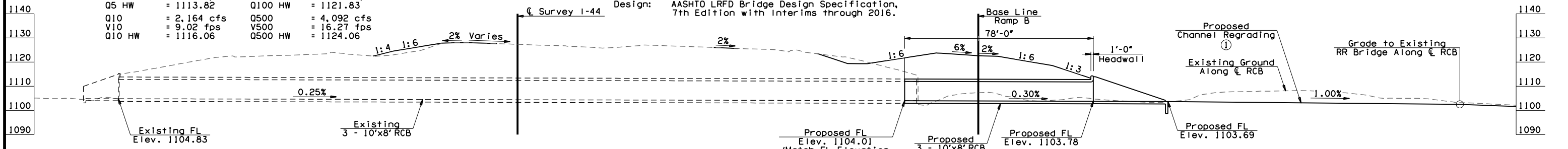
**LOAD AND RESISTANCE FACTOR DESIGN DATA**

Class AA Concrete  $f'_c = 4,000$  p.s.i.  
 Reinforcing Steel (Grade 60)  $f_y = 60,000$  p.s.i.  
 Loading: HL93 and Oklahoma Overload Truck  
 Design: AASHTO LRFD Bridge Design Specification, 7th Edition with Interims through 2016.

**NOTE:**  
 Stationing and offsets shown are measured from  $\Delta$  Ramp B.

① See Plan & Profile sheets for additional Channel Regrading Details. Quantities for Channel Regrading to be included in Roadway Quantities.

SUMMARY OF QUANTITIES		
ITEM	UNIT	TOTAL
UNCLASSIFIED EXCAVATION	C.Y.	337.00
STRUCTURAL EXCAVATION UNCLASSIFIED	C.Y.	202.00
CLASS AA CONCRETE	C.Y.	379.10
REINFORCING STEEL	LB.	55,013.00
REMOVAL OF BRIDGE ITEMS	LSUM	1.00



**ELEVATION**  
(Along  $\Delta$  RCB)

**BENCHMARK NO. 43**  
 Chiseled Square on S.E. corner of South Headwall  
 OFFSET: 27' RIGHT STATION: 396+43 ELEVATION: 1134.97

**BENCHMARK NO. 44**  
 2" Aluminum Cap at End of Overpass I-44  
 ELEVATION: 1144.60

**STANDARDS**

- RCB-C3-10(2-12)-02E
- RCB-E3-H8-0-1-01E
- RCB-E3-H8-0-2-01E
- RCB-CW3-D4-0-01E

**INDEX OF SHEETS**

SHEET NO.	TITLE
17	Summary of Pay Quantities and Notes (Bridge)
142	General Plan and Elevation
143	3 - 10'x8' RCB Culvert Details (Sheet 1 of 2)
144	3 - 10'x8' RCB Culvert Details (Sheet 2 of 2)

I-44 OVER MISSION CREEK COMANCHE COUNTY DESIGN BRT 07/12  
 BRIDGE 'A' DETAIL BRT 09/12  
 GENERAL PLAN AND ELEVATION (CONSTRUCT 3 - 10'x8'x78" RC BOX EXTENSION WITH 4' CURTAIN WALL AT EAST END OF EXISTING 3 - 10'x8' RC BOX WITH 4'-0" CURTAINWALL) CHECK MAY 09/12  
**GARVER**

**STATE OF OKLAHOMA** DEPARTMENT OF TRANSPORTATION  
 JOB PIECE NO. 27050(04) SHEET NO. 142