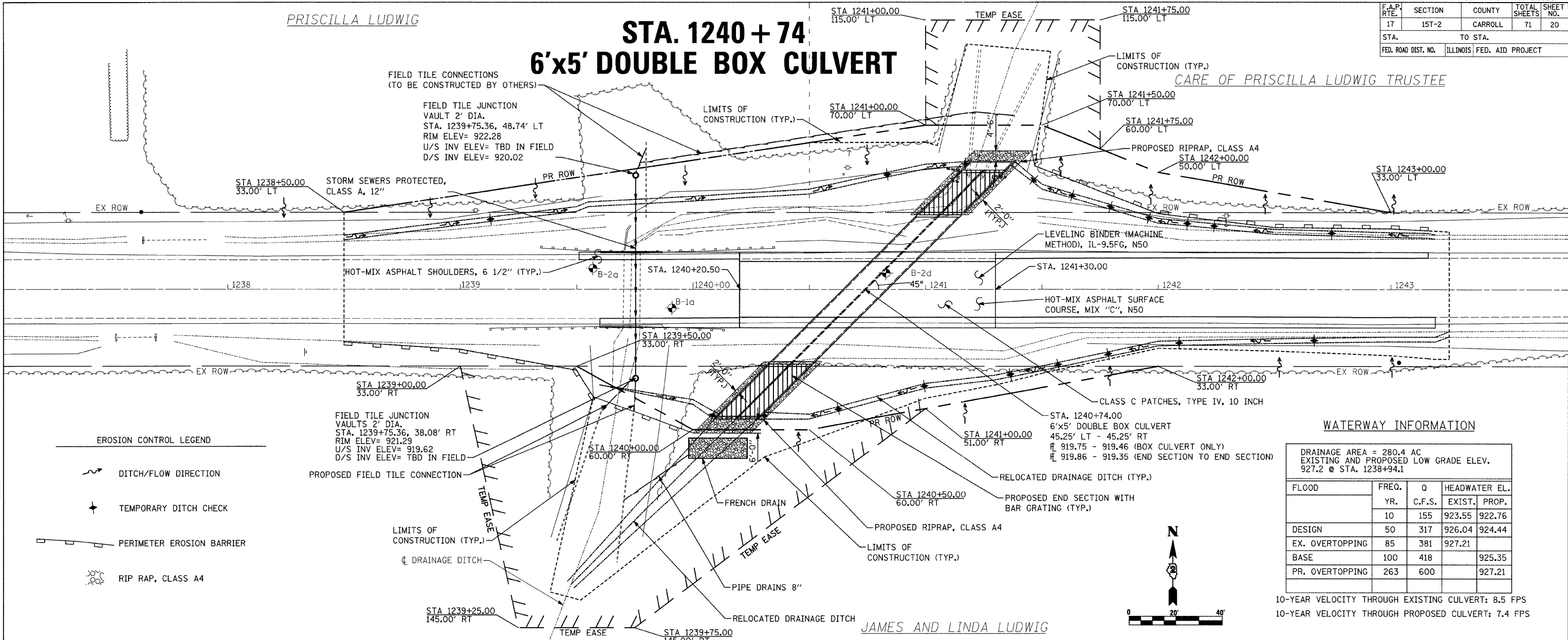


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	15T-2	CARROLL	71	20
STA. 1237+50		TO STA. 1243+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# STA. 1240+74 6'x5' DOUBLE BOX CULVERT

PRISCILLA LUDWIG

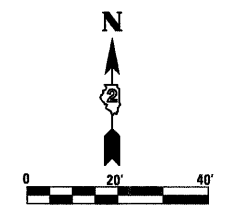


### WATERWAY INFORMATION

DRAINAGE AREA = 280.4 AC  
EXISTING AND PROPOSED LOW GRADE ELEV.  
927.2 @ STA. 1238+94.1

FLOOD	FREQ. YR.	Q C.F.S.	HEADWATER EL.	
			EXIST.	PROP.
	10	155	923.55	922.76
DESIGN	50	317	926.04	924.44
EX. OVERTOPPING	85	381	927.21	
BASE	100	418		925.35
PR. OVERTOPPING	263	600		927.21

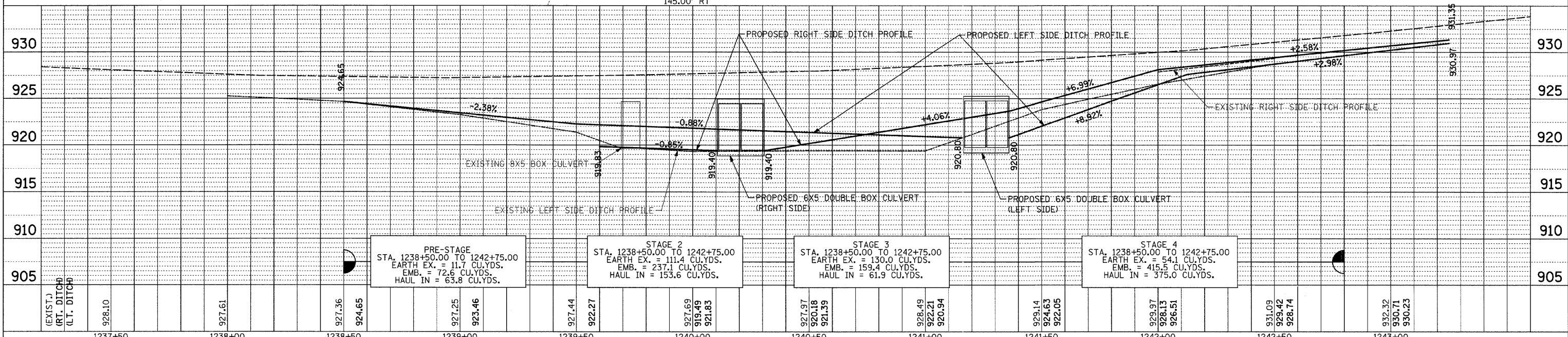
10-YEAR VELOCITY THROUGH EXISTING CULVERT: 8.5 FPS  
10-YEAR VELOCITY THROUGH PROPOSED CULVERT: 7.4 FPS



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 SURV. \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 CAD FILE NAME \_\_\_\_\_

MAUREN STUTZ, INC.  
 ENGINEERS

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 FILE NAME \_\_\_\_\_  
 USER NAME \_\_\_\_\_



PRE-STAGE  
 STA. 1238+50.00 TO 1242+75.00  
 EARTH EX. = 11.7 CU.YDS.  
 EMB. = 72.6 CU.YDS.  
 HAUL IN = 63.8 CU.YDS.

STAGE 2  
 STA. 1238+50.00 TO 1242+75.00  
 EARTH EX. = 111.4 CU.YDS.  
 EMB. = 237.1 CU.YDS.  
 HAUL IN = 153.6 CU.YDS.

STAGE 3  
 STA. 1238+50.00 TO 1242+75.00  
 EARTH EX. = 130.0 CU.YDS.  
 EMB. = 159.4 CU.YDS.  
 HAUL IN = 61.9 CU.YDS.

STAGE 4  
 STA. 1238+50.00 TO 1242+75.00  
 EARTH EX. = 54.1 CU.YDS.  
 EMB. = 415.5 CU.YDS.  
 HAUL IN = 375.0 CU.YDS.

## STA. 1240+74 6'x5' DOUBLE BOX CULVERT