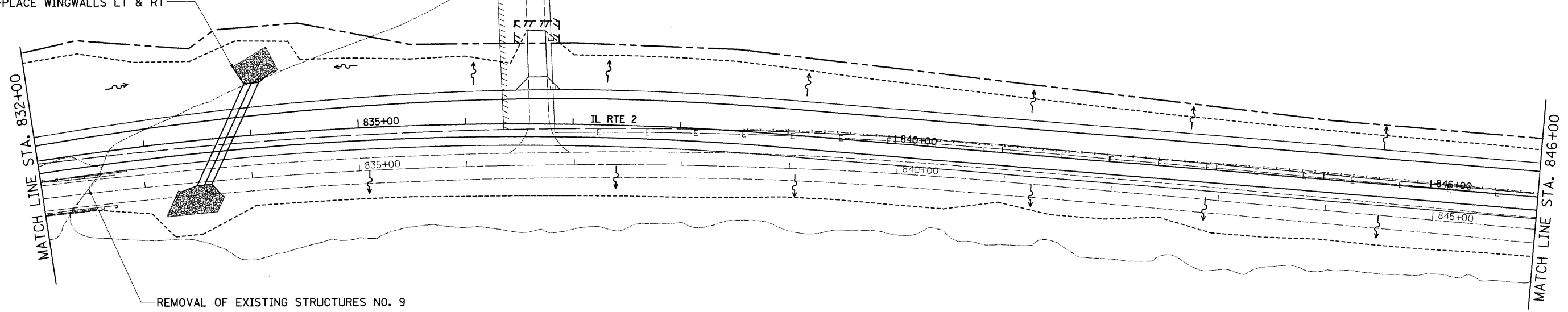


# DRAINAGE DETAILS

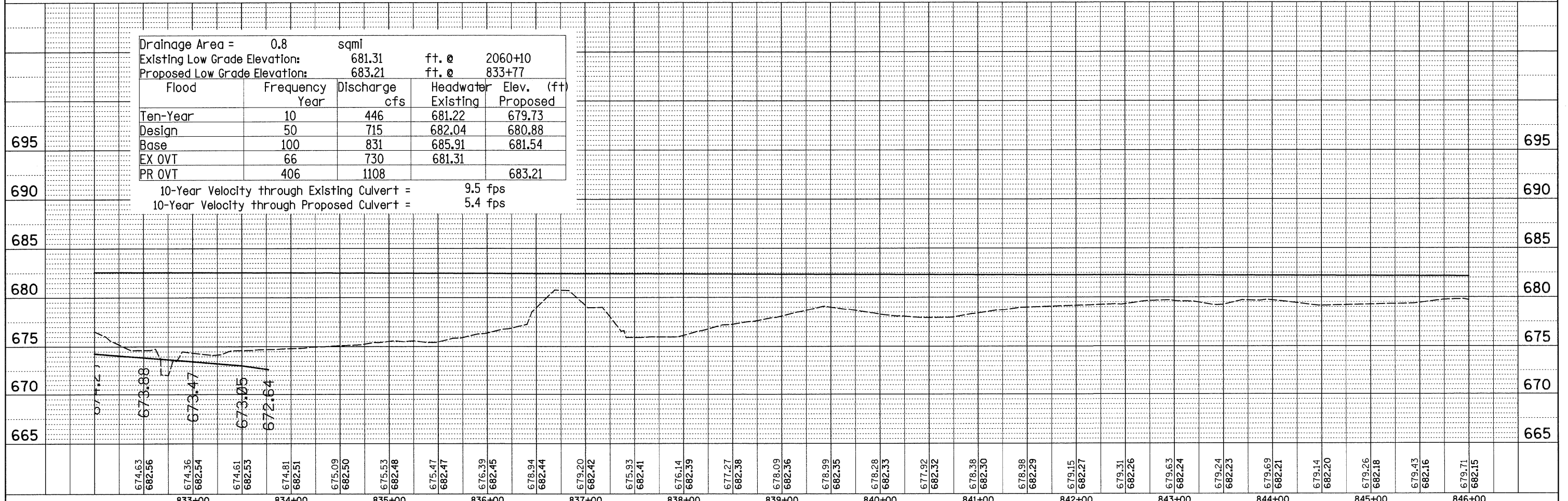
STA. 833+77 @ 30° SKEW  
 2-106'-6" (6'x7') CAST-IN PLACE CONCRETE BOX CULVERT  
 55.38' LT - 48.61' RT  
 F 672.64 - 672.12 @ .50%  
 CAST-IN-PLACE WINGWALLS LT & RT



REMOVAL OF EXISTING STRUCTURES NO. 9

Drainage Area =	0.8	sqmi		
Existing Low Grade Elevation:	681.31	ft. @	2060+10	
Proposed Low Grade Elevation:	683.21	ft. @	833+77	
Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year Design	10	446	681.22	679.73
Base	50	715	682.04	680.88
EX OVT	100	831	685.91	681.54
PR OVT	66	730	681.31	
PR OVT	406	1108		683.21

10-Year Velocity through Existing Culvert = 9.5 fps  
 10-Year Velocity through Proposed Culvert = 5.4 fps



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS		DRAINAGE DETAILS		F.A.P. RTE. 742	SECTION 37R-4	COUNTY OGLE	TOTAL SHEETS 867	SHEET NO. 334
cs:\pw_work\p\widot\GRANTPM\dms31213\066606.dwg PLOT SCALE = 50.0000' / IN. PLOT DATE = Tue Mar 30 10:37:04 2010				DRAWN - CHECKED - DATE -		DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 64E17		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
SCALE:		SHEET NO. OF SHEETS		STA. TO STA.								

PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	ALIGNED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	