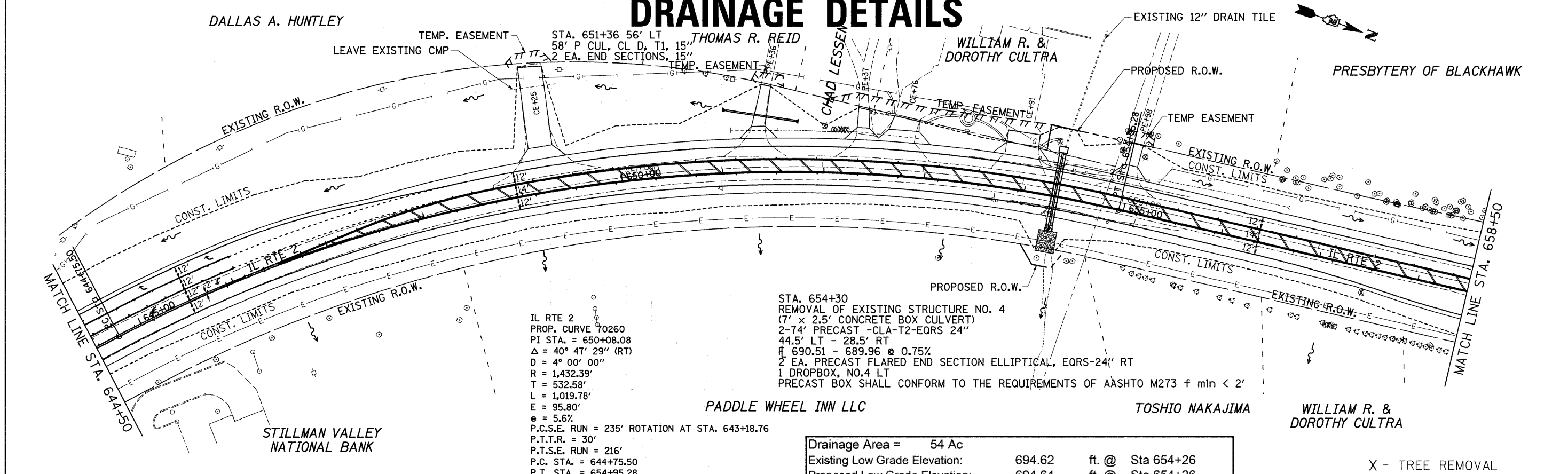


DRAINAGE DETAILS

DALLAS A. HUNTLEY

PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	INT. OF WAY	
	NO.	
	CADD FILE NAME	



IL RTE 2
 PROP. CURVE 70260
 PI STA. = 650+08.08
 $\Delta = 40^\circ 47' 29''$ (RT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 532.58'$
 $L = 1,019.78'$
 $E = 95.80'$
 $\theta = 5.6\%$
 P.C.S.E. RUN = 235' ROTATION AT STA. 643+18.76
 P.T.T.R. = 30'
 P.T.S.E. RUN = 216'
 P.C. STA. = 644+75.50
 P.T. STA. = 654+95.28

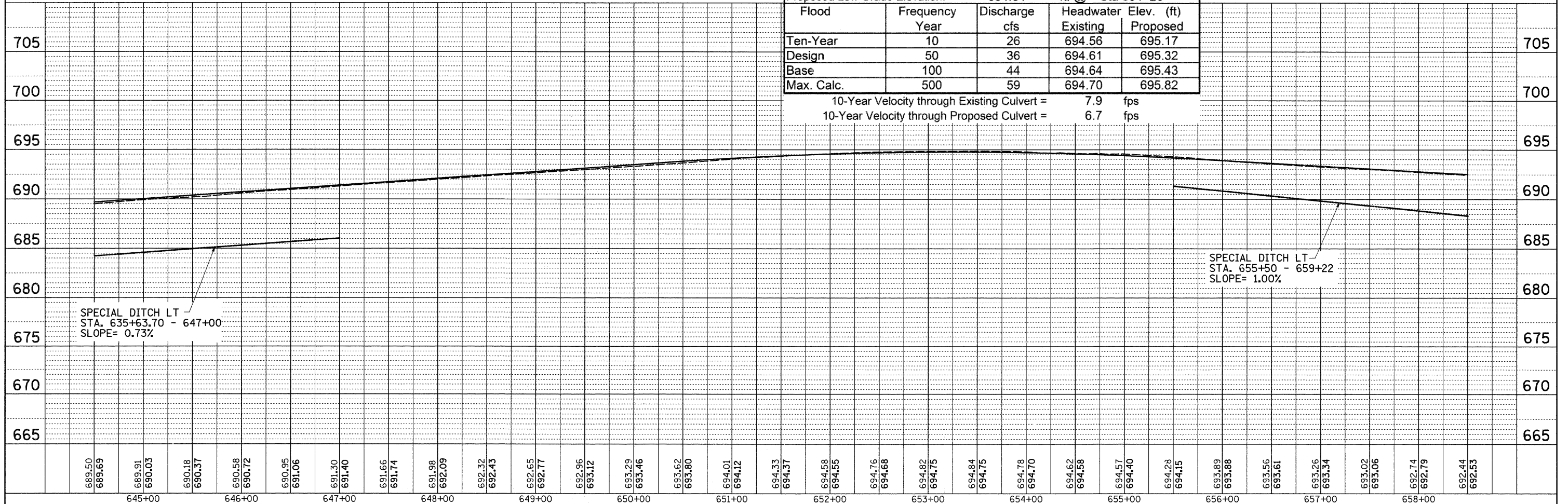
STA. 654+30
 REMOVAL OF EXISTING STRUCTURE NO. 4
 (7' x 2.5' CONCRETE BOX CULVERT)
 2-74' PRECAST -CLA-T2-EQRS 24"
 44.5' LT - 28.5' RT
 $R = 690.51 - 689.96 @ 0.75\%$
 2 EA. PRECAST FLARED END SECTION ELLIPTICAL, EQRS-24" RT
 1 DROPBOX, NO.4 LT
 PRECAST BOX SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 f min < 2'

Drainage Area = 54 Ac				
Existing Low Grade Elevation:		694.62	ft. @ Sta 654+26	
Proposed Low Grade Elevation:		694.64	ft. @ Sta 654+26	
Flood	Frequency	Discharge	Headwater Elev. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	26	694.56	695.17
Design	50	36	694.61	695.32
Base	100	44	694.64	695.43
Max. Calc.	500	59	694.70	695.82

10-Year Velocity through Existing Culvert = 7.9 fps
 10-Year Velocity through Proposed Culvert = 6.7 fps

X - TREE REMOVAL

PROFILE	SURVEYED	DATE
	PLotted	
	CHECKED	
	BY	
	NO.	
	STRUCTURE NOTATIONS CHKD	



FILE NAME =	USER NAME = cushmanbw	DESIGNED -	REVISED -	F.A.P. RTE. 742	SECTION 37R-3	COUNTY OGLE	TOTAL SHEETS 345	SHEET NO. 130
CONTRACT NO. 84788		DRAWN -	REVISED -	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	
		CHECKED -	REVISED -					
		DATE	DATE					