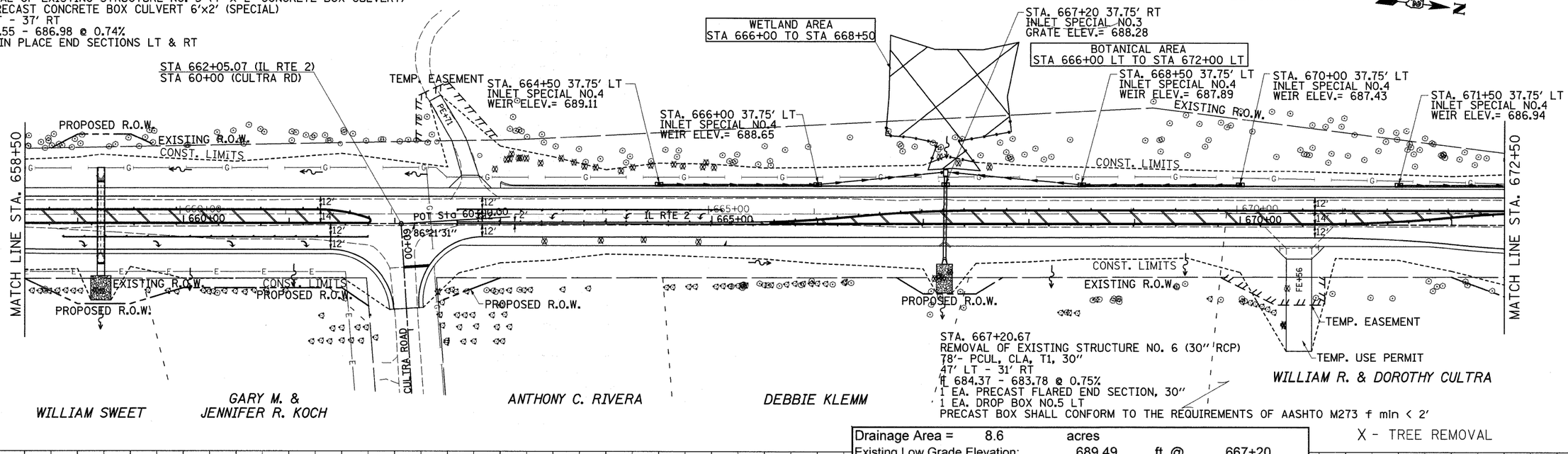
DRAINAGE DETAILS

PRESBYTERY OF BLACKHAWK

STA. 659+22
REMOVAL OF EXISTING STRUCTURE NO. 5 (4' x 2' CONCRETE BOX CULVERT)
77' PRECAST CONCRETE BOX CULVERT 6'x2' (SPECIAL)
40' LT - 37' RT
℄ 687.55 - 686.98 @ 0.74%
CAST IN PLACE END SECTIONS LT & RT



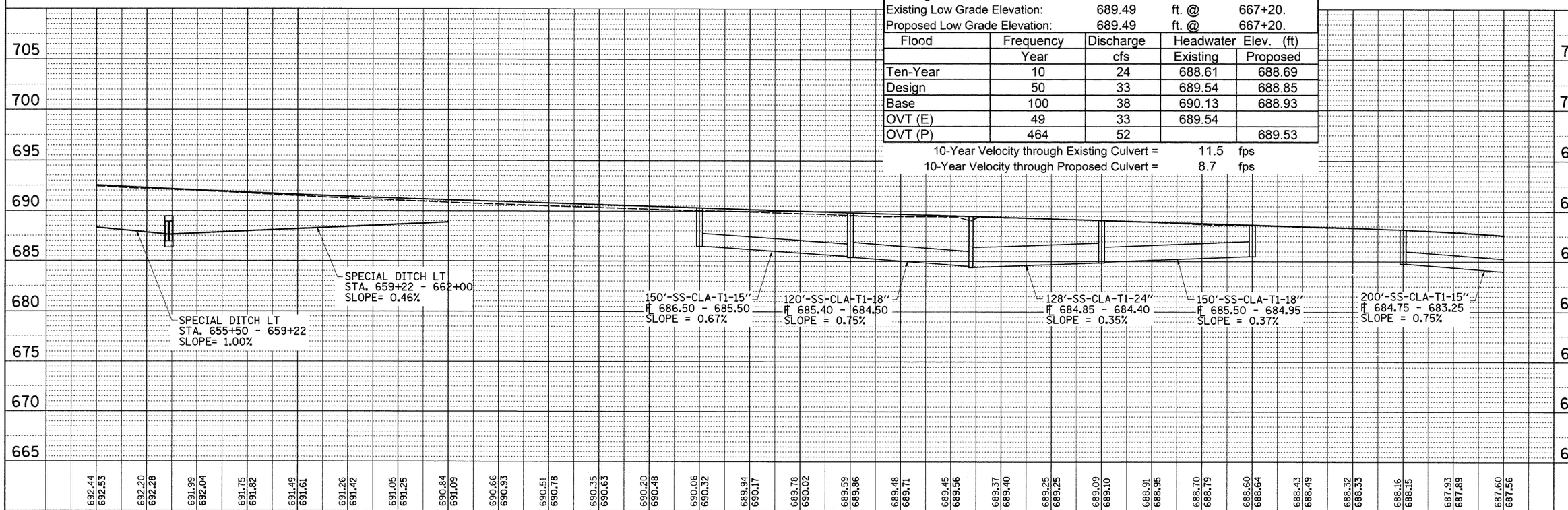
STA. 667+20.67
REMOVAL OF EXISTING STRUCTURE NO. 6 (30" RCP)
78'- PCUL, CLA, T1, 30"
47' LT - 31' RT
℄ 684.37 - 683.78 @ 0.75%
1 EA. PRECAST FLARED END SECTION, 30"
1 EA. DROP BOX NO.5 LT
PRECAST BOX SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 f min < 2'

X - TREE REMOVAL

Drainage Area =	8.6	acres		
Existing Low Grade Elevation:		689.49	ft. @	667+20.
Proposed Low Grade Elevation:		689.49	ft. @	667+20.

Flood	Frequency	Discharge	Headwater Elev. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	24	688.61	688.69
Design	50	33	689.54	688.85
Base	100	38	690.13	688.93
OVT (E)	49	33	689.54	
OVT (P)	464	52		689.53

10-Year Velocity through Existing Culvert = 11.5 fps
10-Year Velocity through Proposed Culvert = 8.7 fps



FILE NAME = c:\pw_work\PWIDOT\CUSHMANBW\dms34123\d0648ddr1.dgn	USER NAME = cushmanbw	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Fri May 01 08:08:36 2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-3	OGLE	345	131
		CONTRACT NO. 84788		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		