

**PAVEMENT STRUCTURAL DESIGN**  
**COUNTY HIGHWAY 11**

Structural Design Traffic (S.D.T.) = Year 2020

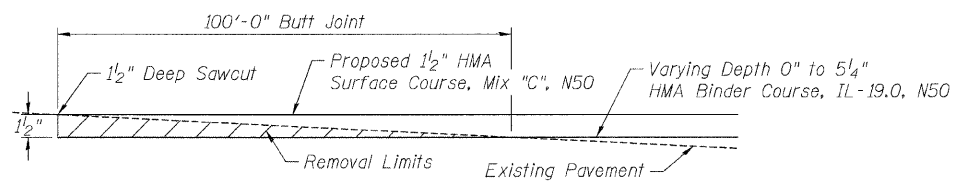
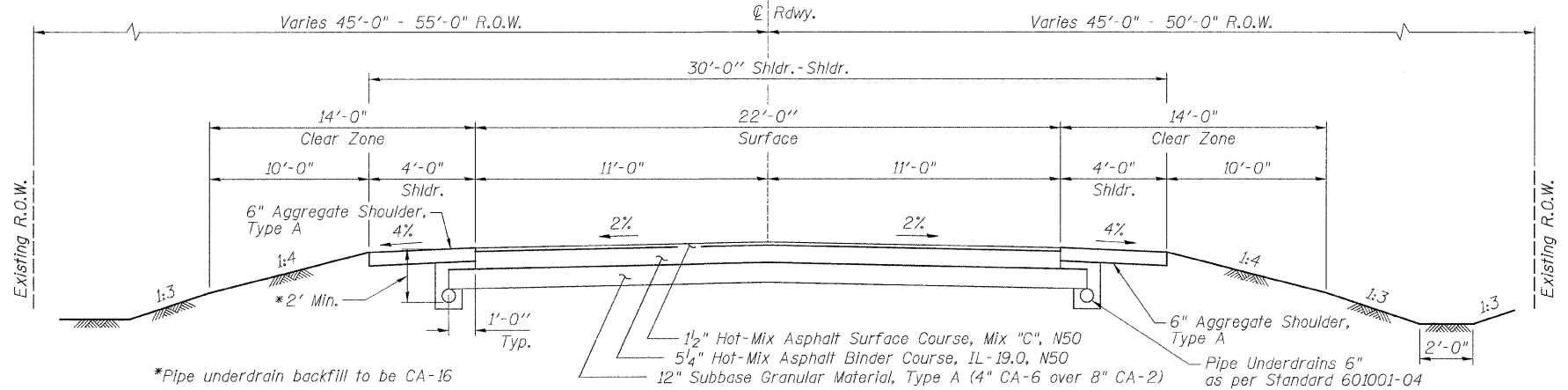
Class III Street	P.V. 912	} 1,306 ADT
80,000# Truck Design	S.U. 73	
	M.U. 51	

$E_{RI} = 2$  ksi (Poor Subgrade)  
 $TF = 0.28$   
 HMA Mix Temp. = 79°F  
 $E_{AC} = 490$  ksi  
 HMA Design Strain = 225 microstrain

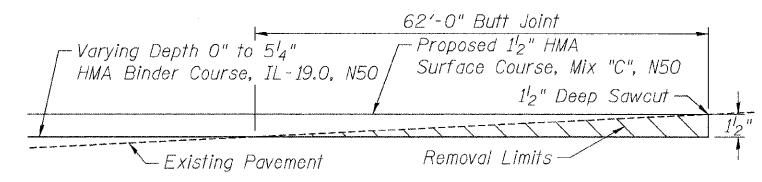
**USE:**  
 1 1/2" Hot-Mix Asphalt Surface Course, Mix "C", N50  
 5 1/4" Hot-Mix Asphalt Binder Course, IL-19.0, N50  
 12" Subbase Granular Material, Type A (4" CA-6 over 8" CA-2)

**PAVEMENT MIXTURE REQUIREMENTS**

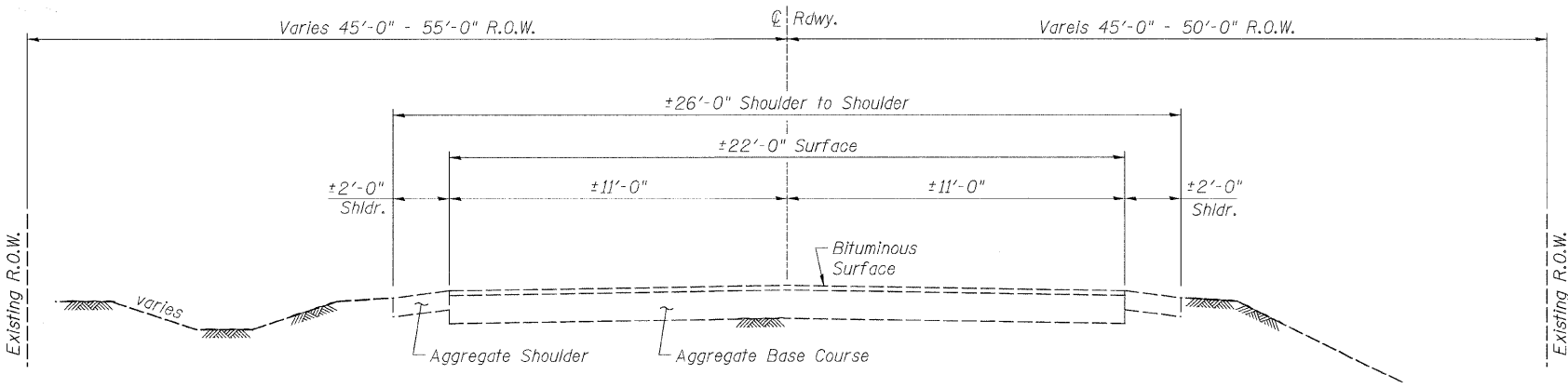
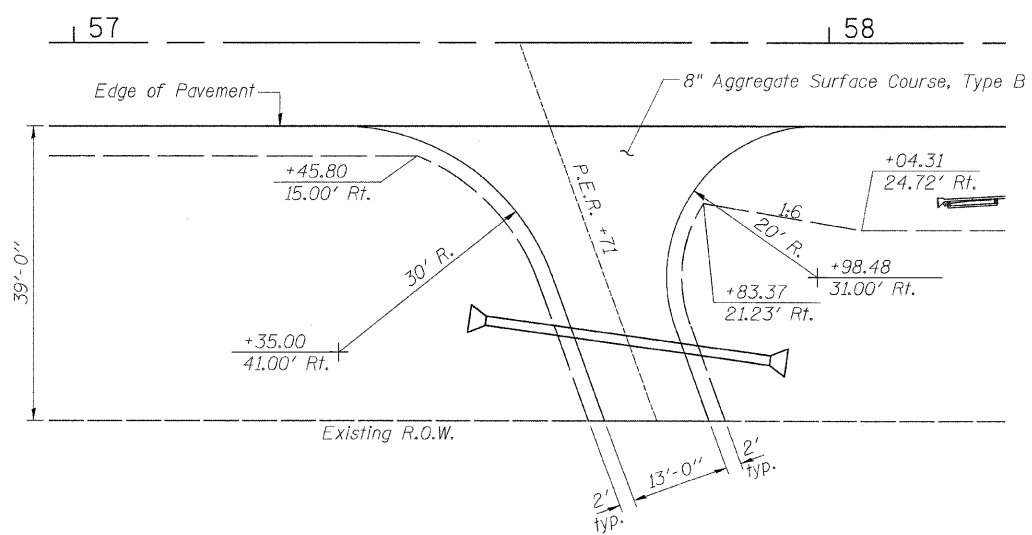
	Surface	Binder
PG:	64-22	64-22
Design Air Voids	4.0 @ N50	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 19.0
Friction Aggregate	C	---
Density Test Method	Cores	Cores



Cost of sawcut and pavement removal to be included in the contract unit price bid per Cubic Yard for Earth Excavation



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FILE NAME = S:\PROJECTS\21010\1051D10\Bureau\CH11\DESIGN\STRUCT\Drawings\1051D10\Typicals.dgn

USER NAME =	DESIGNED - M. A. CACKLEY	REVISED -
PLOT SCALE =	CHECKED - B. K. CONVERSE	REVISED -
PLOT DATE =	DRAWN - F. D. LACHAT	REVISED -
	CHECKED - M. C. WAGNER	REVISED -

**BUREAU COUNTY**  
**F.A.S. 184 (C.H. 11) OVER BIG BUREAU CREEK**  
**STATION 59 + 75**

**TYPICAL SECTIONS**  
**STRUCTURE NO. 006-3032**  
 STA. 53+50 TO STA. 64+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	08-00211-00-BR	BUREAU	31	4
WHA* 1051D10		CONTRACT NO. 87462		
ILLINOIS FED. AID PROJECT BRS-0184(07)				