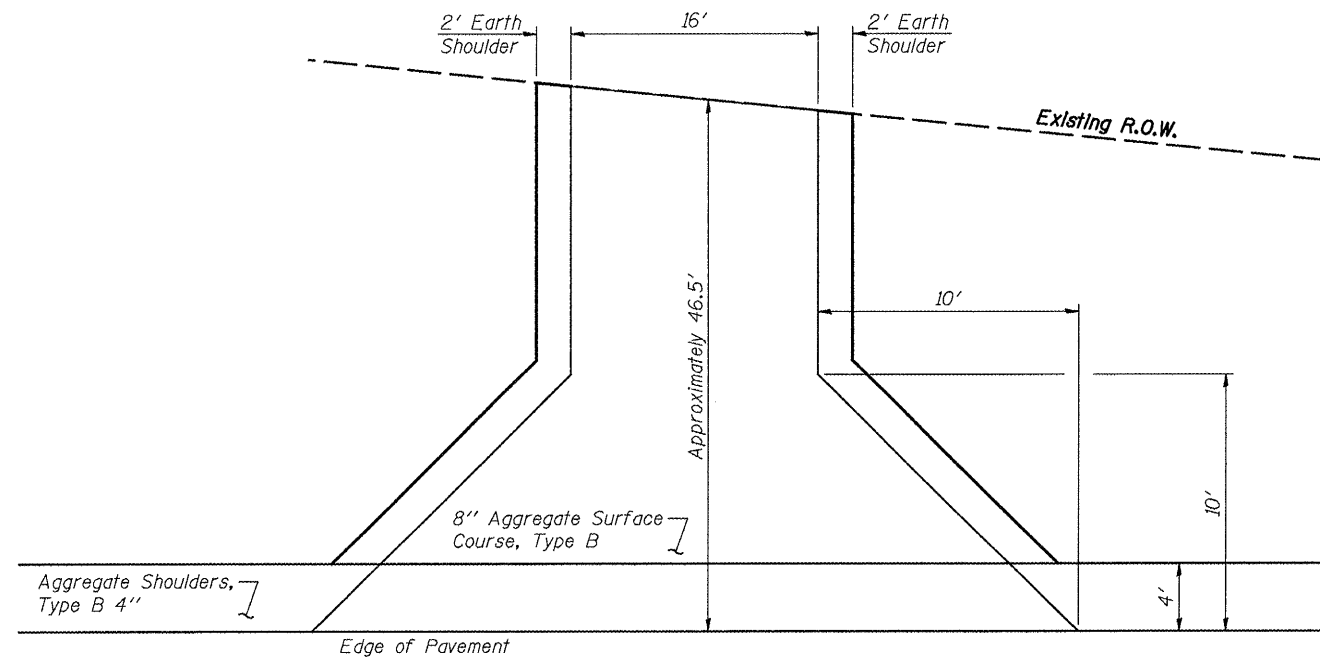


\* Dimensions and Cross-Slopes vary from Stations 17+00 to 17+50 and 22+50 to 23+00 due to transition to match existing roadway

**N. BOLTON ROAD**  
(Sta. 17+00.00 to Sta. 23+00.00)

**PAVEMENT MIXTURE REQUIREMENTS**

	Construction	
	Binder	Surface
PG:	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 19.0	IL 12.5 or 9.5
Friction Aggregate	—	C
ESALS	0.5	0.5



**N. BOLTON ROAD**  
**FIELD ENTRANCE**  
(Sta. 19+26)

**PAVEMENT STRUCTURAL DESIGN**  
**N. BOLTON ROAD**

Structural Design Traffic (S.D.T.) = Year 2020 (3R Guidelines)  
 Class III Street  
 80,000# Truck Design  
 $E_{RI}$  : (Assumed) 2 ksi  
 $TF = 0.36$   
 HMA Mix Temp. 77°F  
 HMA  $E_{AC} = 625$  ksi  
 HMA Design Strain 190 microstrain

**USE:**  
 1 1/2" Hot-Mix Asphalt Surface Course, Mix "C", N50  
 5" Hot-Mix Asphalt Binder Course, IL-19.0, N50  
 12" Subbase Granular Material, Type B

FILE = S:\PROJECTS\2010\112010\Stephenson\_Co\_Bolton\_Rd\DESIGN\STRUCT\typicals.dgn

REV.	DATE	BY	REMARKS

**DRAWN**  
R.D.A.  
**CHECKED**  
M.A.C.  
**APPROVED**  
B.K.C.

**STEPHENSON COUNTY**  
**CULVERT REPLACEMENT**  
**F.A.S. 78 (N. BOLTON ROAD) OVER PRESTON CREEK**  
**2010**

**WILLET, HOFMANN & ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
Land Surveying - Transportation - Structural  
Environmental - Architecture  
800 East Second Street Dixon, Illinois 61021  
Phone 815.294.3391 Fax 815.294.3365  
Design Firm #184-000918  
www.willett-hofmann.com

**GENERAL NOTES, SCHEDULES AND TYPICAL SECTIONS**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 78	10-06118-00-BR	Stephenson	18	4
STA. 17+00.00 - STA. 23+00.00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT ER-0177(038)				