

Bench Mark: TBM #2 - Elev. 678.745. Chiseled cross on the northeast bolt of west light pole ±60 north of north edge of Southwest Highway Bridge.

Existing Structure: None

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DESIGN SPECIFICATIONS**  
2007 AASHTO LRFD Bridge Design Specifications with 2008 & 2009 interims  
2009 AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges

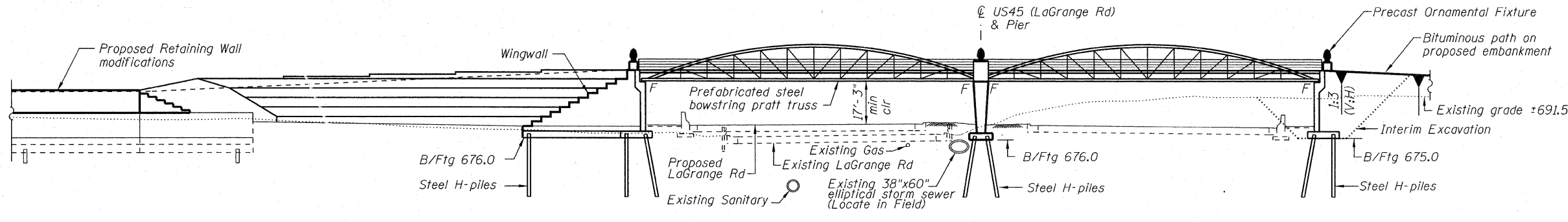
**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.092  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.160  
Soil Site Class = D

**DESIGN STRESSES**

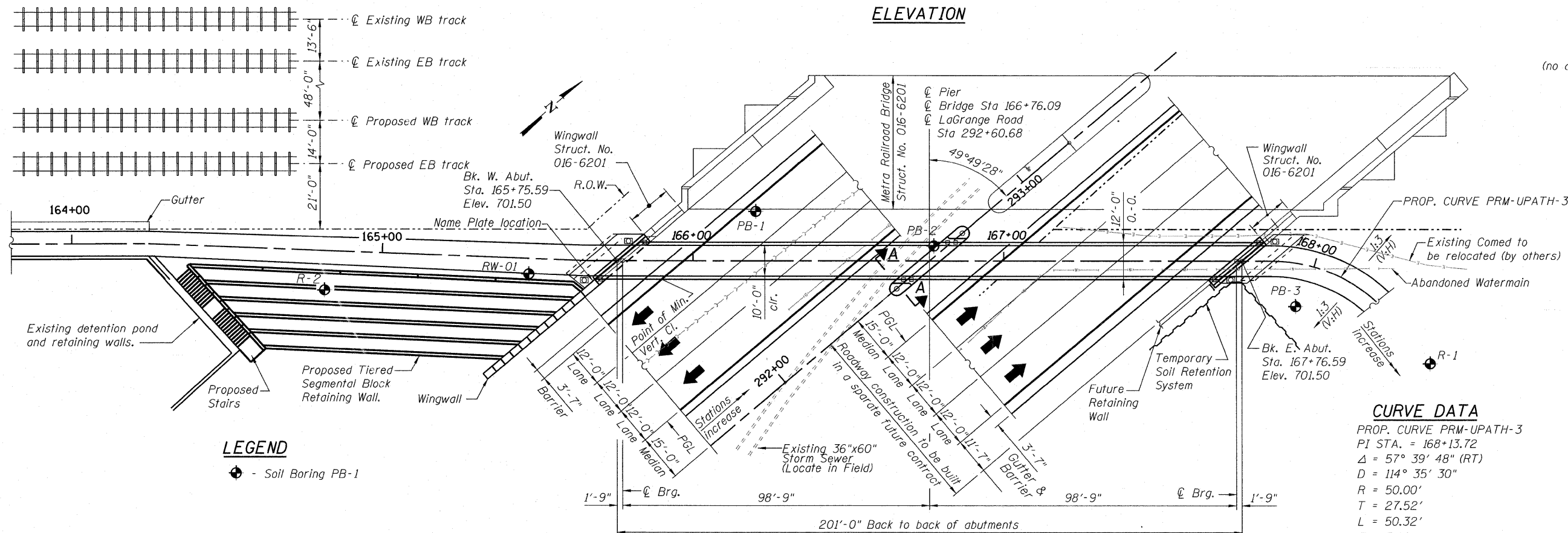
**FIELD UNITS**  
 $f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)  
 $f_y$  = 50,000 psi (M270 Grade 50W) - Truss  
 $f_y$  = 50,000 psi (M270 Grade 50) - Piles

**LOADING**

Pedestrian Live Load: 90 psf  
Vehicle Live Load: H-5  
(no allowance for future wearing surface)



**ELEVATION**



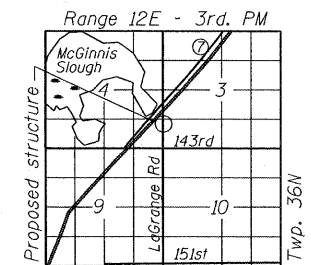
**LEGEND**

Soil Boring PB-1

STATION 292+60.68  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 330 SEC. 73R-B  
LOADING 90 PSF  
STRUCTURE NO. 016-7702

**NAME PLATE**

See Std. 515001

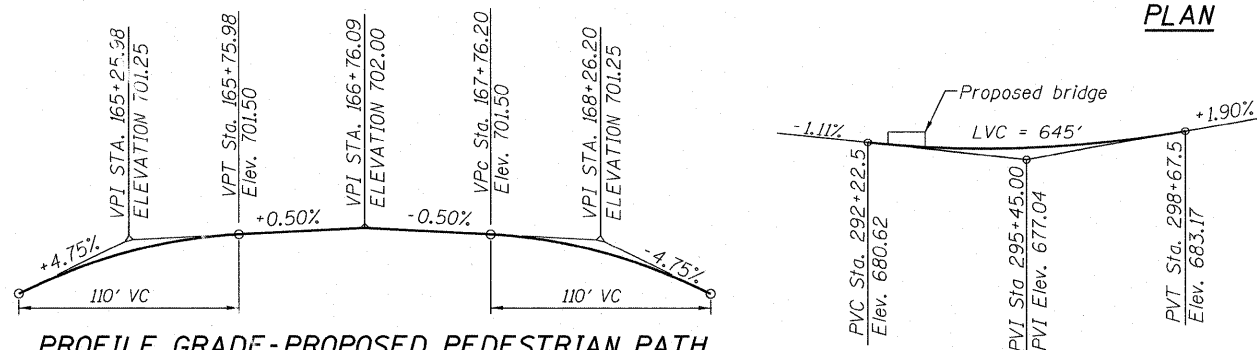


**LOCATION SKETCH**

**CURVE DATA**

PROP. CURVE PRM-UPATH-3  
PI STA. = 168+13.72  
 $\Delta$  = 57° 39' 48" (RT)  
 $D$  = 114° 35' 30"  
 $R$  = 50.00'  
 $T$  = 27.52'  
 $L$  = 50.32'  
 $E$  = 7.08'  
P.C. STA = 167+86.20  
P.T. STA = 168+36.52

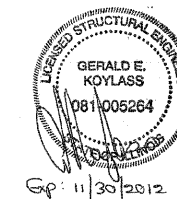
**PLAN**



PROFILE GRADE-PROPOSED PEDESTRIAN PATH

PROFILE GRADE-PROPOSED LAGRANGE RD  
(along PGL roadway)

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
Gerald E. Koynass  
ENGINEER OF BRIDGES AND STRUCTURES



GP: 11/30/2012

**GENERAL PLAN AND ELEVATION**  
**PEDESTRIAN BRIDGE OVER LAGRANGE ROAD**  
F.A.P. RTE. 330 SEC. 73 R-B  
COOK COUNTY  
STATION 166+76.09  
STRUCTURE NO. 016-7702

DESIGNED	AMV
CHECKED	JCE
DRAWN	AMV
CHECKED	JCE

SHEET NO. 1 12 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	330	73 R-B	COOK	136	78
DATE: 12/17/10			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60K64					