

Bench Mark: BM #224 4059+52, 34' LT  
 DuPage County survey disk at north end of the west bridge wall,  
 IL Rte 59 over Interstate Route 88, Elev. 731.43

Existing Structure: None

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition, with 2012 Interim Revisions

Illinois State Toll Highway Authority  
 Structure Design Manual, March 2012

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 50,000$  psi (AASHTO M270 Gr. 50)

**CURVE DATA**

**@ Wall W067**  
 Curve RW067-1  
 $\Delta = 6^\circ 48' 49''$  (RT)  
 $D = 6^\circ 48' 49''$   
 $R = 840.92'$   
 $T = 50.06'$   
 $L = 100.00'$   
 $E = 1.49'$   
 SE = Normal Crown  
 PC STA. 0+00.00  
 PT STA. 1+00.00  
 PI STA. 0+50.06

**@ Ramp A**  
 Curve Ramp A-1  
 $\Delta = 19^\circ 06' 41''$  (RT)  
 $D = 6^\circ 42' 19''$   
 $R = 854.50'$   
 $T = 143.85'$   
 $L = 285.02'$   
 $E = 12.02'$   
 SE = Normal Crown  
 PC STA. 1010+91.56  
 PT STA. 1013+76.58  
 PI STA. 1012+35.41

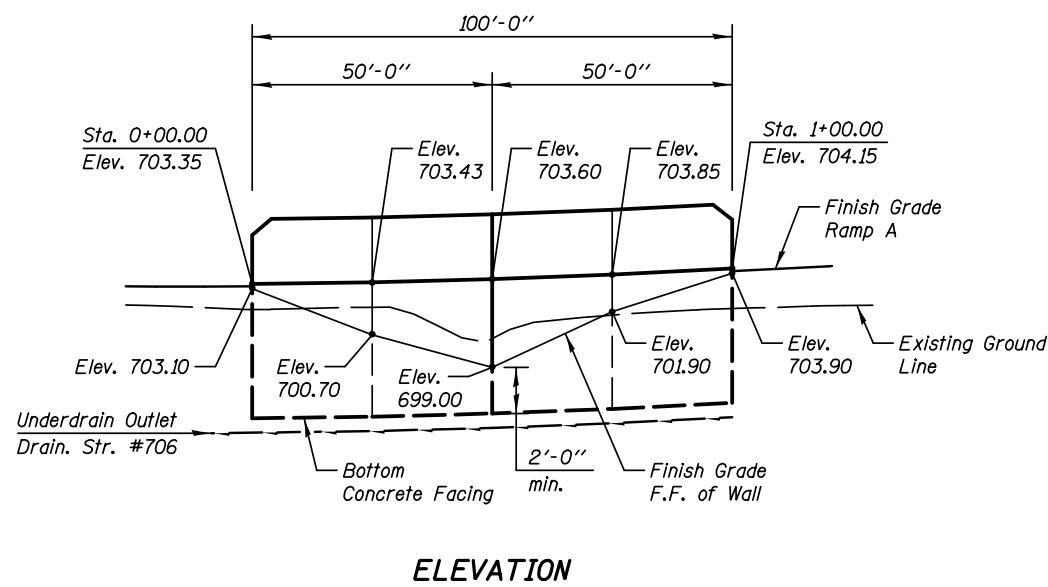
**POT "A"**  
 Sta. 0+00.00 - @ Wall W067 =  
 Sta. 1012+55.00, 13.58' Rt. - @ Ramp A

**TOTAL BILL OF MATERIAL**

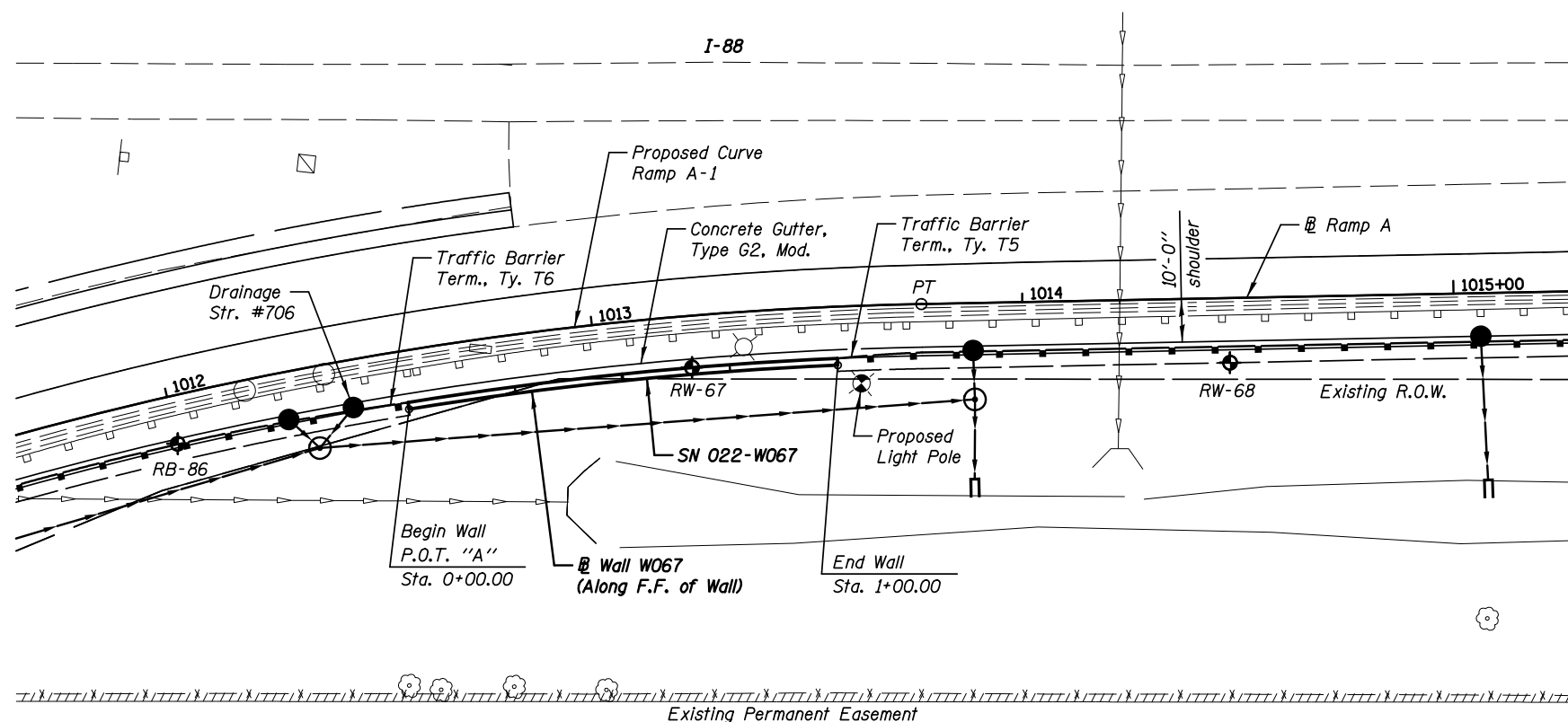
ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	58.0
Concrete Structures	Cu. Yd.	46.0
Stud Shear Connectors	Each	200
Reinforcement Bars, Epoxy Coated	Pound	5330
Concrete Sealer	Sq. Ft.	1511.0
Geocomposite Wall Drain	Sq. Yd.	62.0
Untreated Timber Lagging	Sq. Ft.	551.0
Furnishing Soldier Piles (HP Section)	Foot	560.0
Pipe Underdrains for Structures 4"	Foot	112.0
Drilling And Setting Soldier Piles (In Soil)	Cu. Ft.	2842.0

**INDEX OF DRAWINGS**

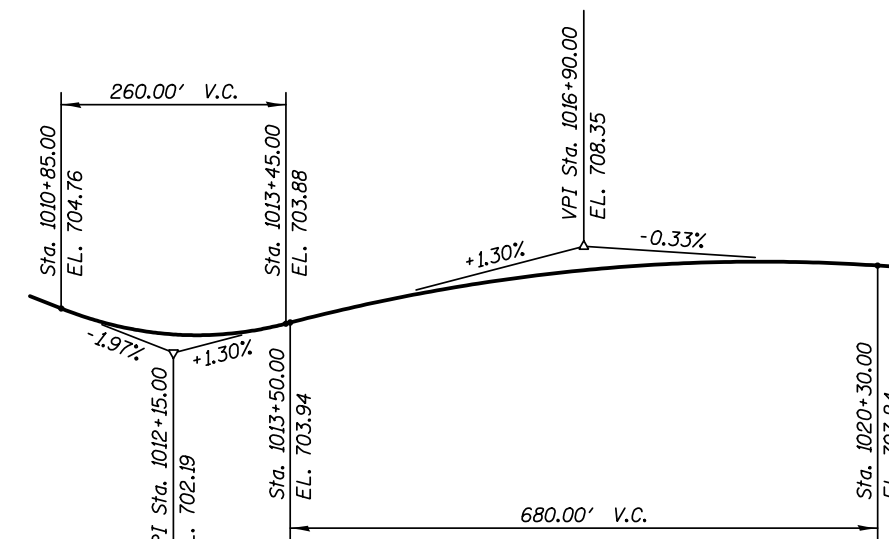
SHT NO.	TITLE
SF-1	General Plan and Elevation
SF-2	Typical Wall Section and Details
SF-3	Plan & Elevation - Panels A & B
SF-4	Wall Sections and Details
SF-5	Soil Boring Logs



**ELEVATION**

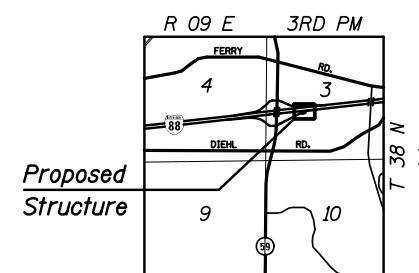


**PLAN**



**@ RAMP A - PROPOSED PROFILE GRADE LINE**

(Profile along outside edge of shoulder)



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
 ILLINOIS ROUTE 59 F.A.P. RTE. 338  
 SEC. (112 & 113) WRS-5  
 DUPAGE COUNTY  
 STA. 1012+55 TO STA. 1013+57  
 STRUCTURE NO. 022-W067



Expires 11-30-2012  
 Date: 10/15/2012  
 for drawings  
 SF-1 thru SF-5

**Notes**

See Roadway Plans for Concrete Gutter, Type G2, Mod. details.  
 See Roadway Drainage Plans for drainage structure sizes and locations.

**Legend**

Soil Borings  
 F.F. Front Face  
 B.F. Back Face

**KNIGHT**  
 Engineers & Architects

DESIGNED - TB	REVISION
CHECKED - WPM	REVISION
DRAWN - TB	REVISION
CHECKED - WPM	REVISION
SCALE - NONE	
DATE - 10/15/2012	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 STRUCTURE NUMBER 022-W067 TOLLWAY WALL EW123.5R,EB(R)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-5	DUPAGE	963	684
CONTRACT NO. 60131				

SHEET NO. SF-1 OF 5 SHEETS

ILLINOIS FED. AID PROJECT