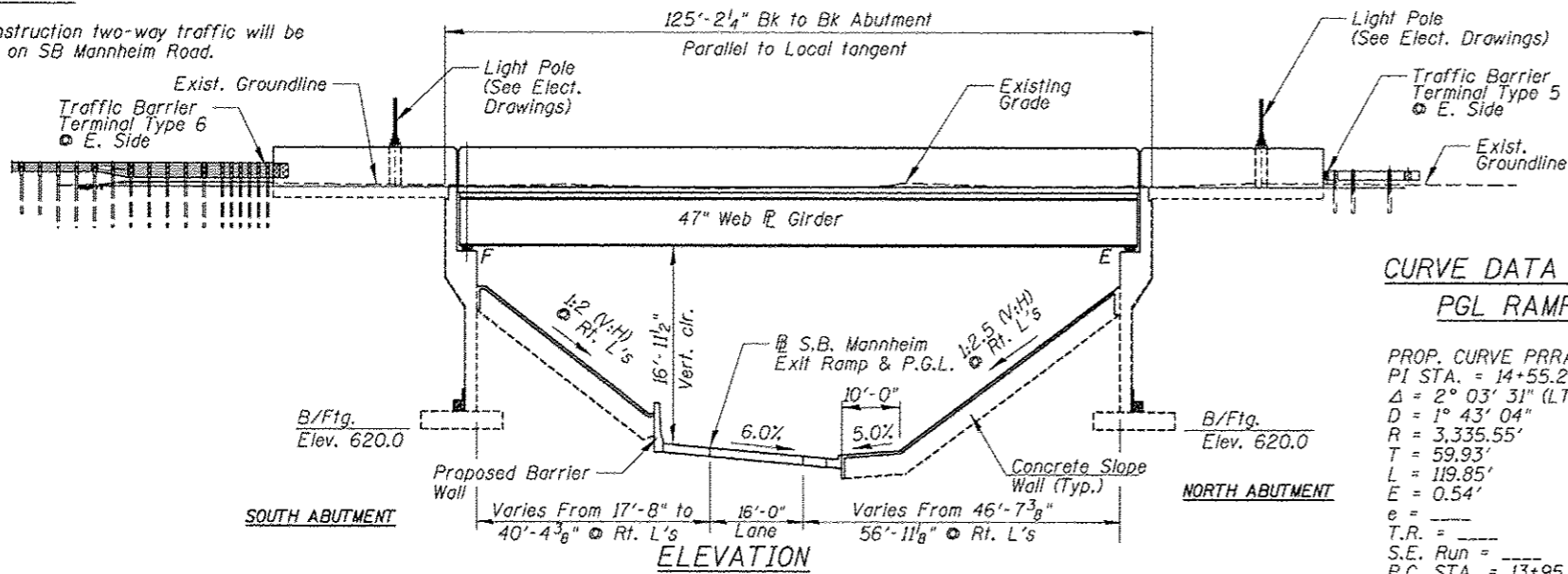


Bench Mark: MON 144 - Located East of Spine Road and West of Mannheim Road at the Southeastern side of O'Hare Airport. Elev. 643.22

Existing Structure: None

During construction two-way traffic will be maintained on SB Mannheim Road.



**CURVE DATA ALONG PGL RAMP A**

PROP. CURVE PRRAMPA-3  
 PI STA. = 14+55.27  
 Δ = 2° 03' 31" (LT)  
 D = 1° 43' 04"  
 R = 3,335.55'  
 T = 59.93'  
 L = 119.85'  
 E = 0.54'  
 e = ---  
 T.R. = ---  
 S.E. Run = ---+95.34  
 P.C. STA. = 13+95.18  
 P.T. STA. = 15+15.18

**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interim

**LOADING HL-93**

Allow 50 #/sq. ft. for future wearing surface

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (Sp1) = 0.037g  
 Design Spectral Acceleration at 0.2 sec. (Sps) = 0.090g  
 Soil Site Class = C

**DESIGN STRESSES**

**FIELD UNITS**

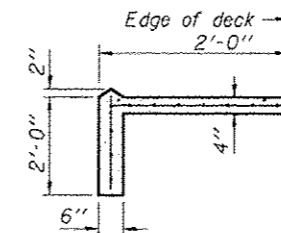
f<sub>c</sub> = 3,500 psi  
 f<sub>y</sub> = 50,000 psi (structural steel) (M270 Grade 50)  
 f<sub>y</sub> = 60,000 psi (Reinf.)

**CURVE DATA ALONG @ MANNHEIM ROAD**

PROP. CURVE MANN2  
 PI STA. = 60+87.10  
 Δ = 55° 18' 45" (LT)  
 D = 1° 45' 00"  
 R = 3,274.04'  
 T = 1,715.72'  
 L = 3,160.72'  
 E = 422.32'  
 e = 3.20%  
 T.R. = 99'  
 S.E. Run = 154'  
 P.C. STA. = 43+71.38  
 P.T. STA. = 75+32.09  
 N.C. STA. = 79+09  
 FULL S.E. STA. = 76+60

**CURVE DATA ALONG @ SB MANNHEIM EXIT RAMP**

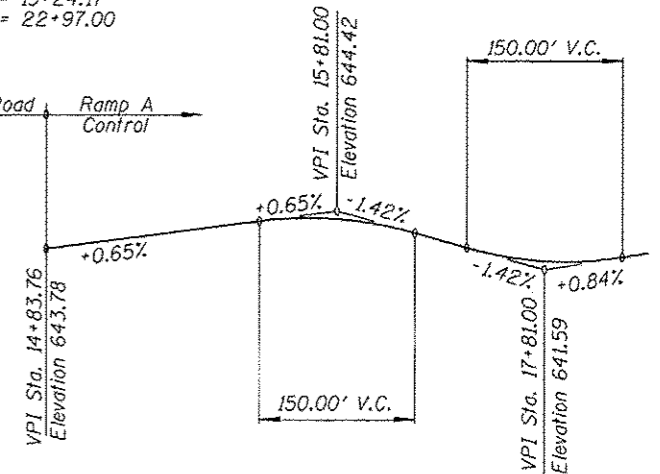
PROP. CURVE PRUNDER-2  
 PI STA. = 21+60.04  
 Δ = 89° 00' 23" (LT)  
 D = 23° 52' 24"  
 R = 240.00'  
 T = 235.87'  
 L = 372.83'  
 E = 96.51'  
 e = -6.0%  
 T.R. = 0'  
 S.E. Run = 97'  
 P.C. STA. = 19+24.17  
 P.T. STA. = 22+97.00



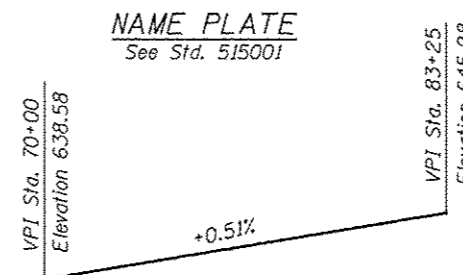
**SECTION A-A**

STATION 75+14.79  
 BUILT BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 330 SEC. 0105-WRS-1  
 LOADING HL-93  
 STRUCTURE NO. 016-7943

**NAME PLATE**  
 See Std. 515001

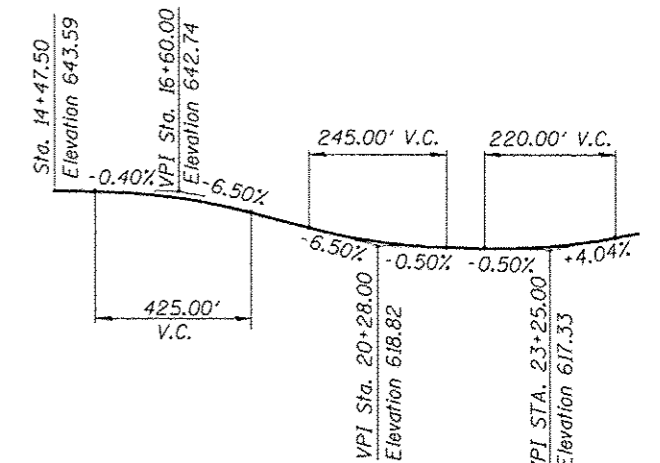


**PROFILE GRADE-RAMP A**

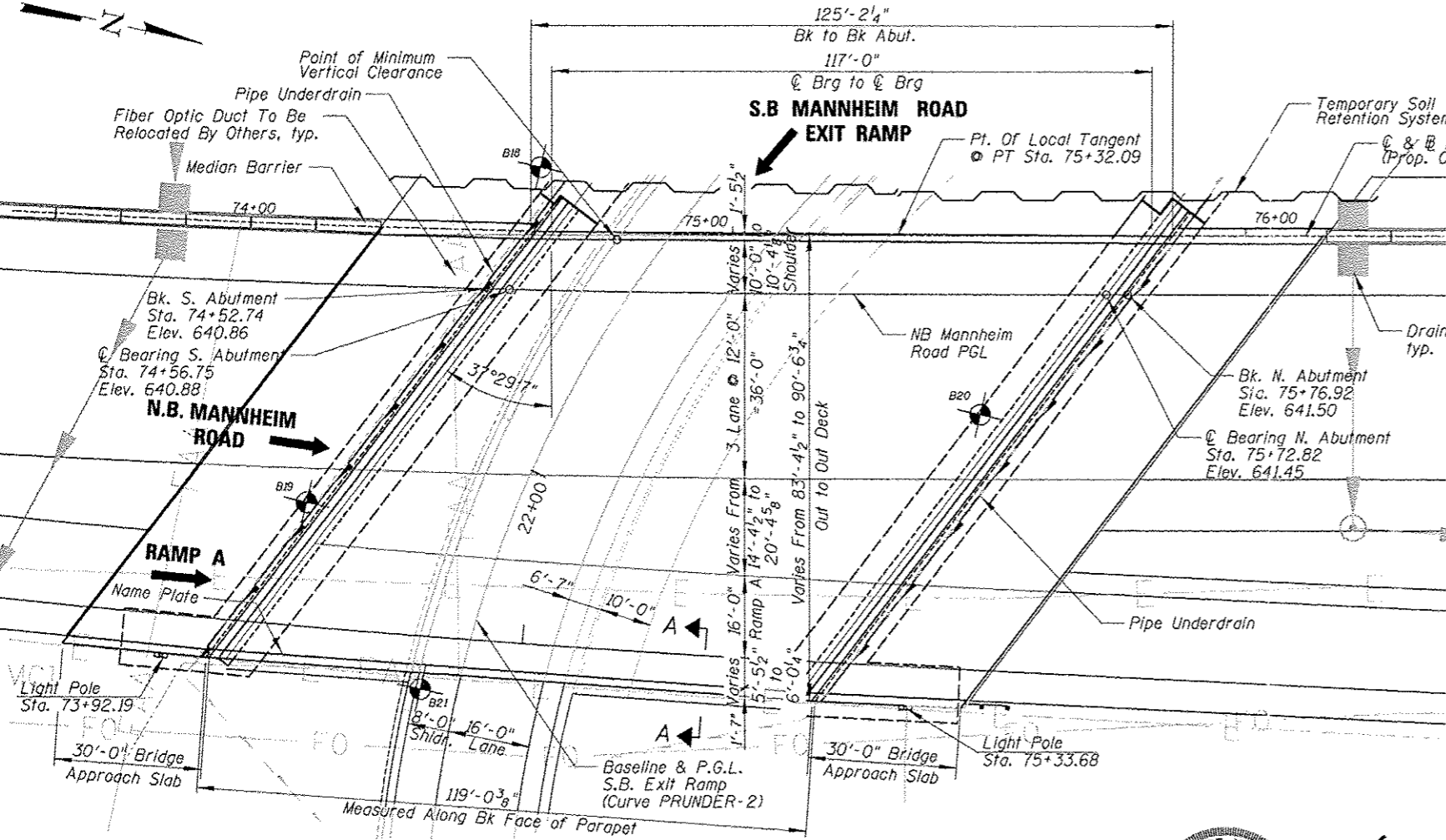


**PROFILE GRADE-N.B. MANNHEIM ROAD BRIDGE**

Bridge Elevations Are Controlled by Mannheim Road Profile



**PROFILE GRADE-S.B. MANNHEIM ROAD EXIT RAMP**



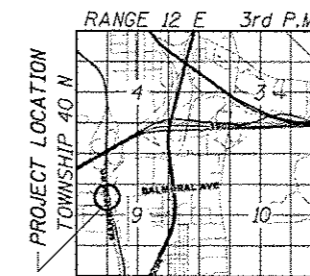
**PLAN**

**APPROVED**  
 For Structural Adequacy Only

*Carl Krueger*  
 Engineer of Bridges & Structures



*Majid Mobasseri* 8/20/12  
**MAJIB MOBASSERI**  
 ILLINOIS REGISTRATION No. 081-005058  
 STRUCTURAL ENGINEER  
 EXPIRATION DATE: 11/30/12



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION N.B. MANNHEIM ROAD BRIDGE OVER SOUTHBOUND EXIT RAMP**

F.A.P. RTE. 330-SEC 0105-WRS-1  
 COOK COUNTY  
 STATION 75+14.79  
 STRUCTURE NO. 016-7943

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9078 St. Higgins Road, Suite 800 Rosemont, Illinois 60018 (630) 825-0200	USER NAME =	DESIGNED - MM	REVISED
	PLOT SCALE =	CHECKED - JMB	REVISED
	PLDT DATE =	DRAWN - PDR	REVISED
		CHECKED - MM	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 NB MANNHEIM ROAD BRIDGE - STRUCTURE NO. 016-7943

SHEET NO. S-1 OF S-26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105-F	COOK	55	3
				CONTRACT NO. 60V68

ILLINOIS FED. AID PROJECT