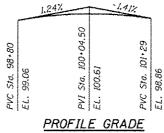
Benchmark:

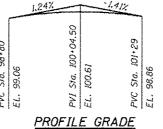
Benchmark #1 - cut "C" in top of southeast wingwall, approx, 21' south of bridge. Assumed Elevation = 99.71'

Existing Structure: S.N. 016-0771 built in 1958 as a single span 27"x36" PPC Deck Beam bridge with 2" bituminous wearing surface on closed abutments on spread footings. The structure measures 48° - 3^3_8 " back to back abutments and 53'-0" out to out. Bridge was rehabilitated in 1999 with a new 5" concrete wearing surface, installation of parapets and handrails. Traffic is to be detoured with full bridge closure. New bridge width measures 52'-0".

Salvage:

None





SEISMIC DATA

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS 2007 AASHTO LRFD 4th Edition

DESIGN STRESSES

FIELD UNITS

fy = 60000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6000 psi

f'cl = 5000 osl

f'c = 3,500 psi f'c = 5000 psi (Concrete Wearing Surface)

f's = 270,000 psi (1/2" \$\psi\$ low lax. strands)

f'si = 201,900 psi (1/2" \$\phi\$ low lax. strands)

Seismic Performance Category (SPC) = A Bedrock acceleration coefficient (A) = .04 Site Coefficient (S) = 1.2

STATION 100+00.00 REBUILT 20_ _ BY STATE OF ILLINOIS F.A.U. ROUTE 3597 SEC 0710 B LOADING HL-93 STRUCTURE NO. 016-0771

NAME PLATE

See Std. 515001

NOTE: Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

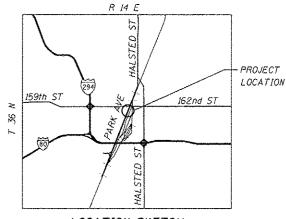


WILLIAM H. EPP. S.E. IL. LIC. NO. 081-005150 EXP 1130-12 DATE 5 1612

APPROVED

For Structural Adequacy, Ohly

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and compiles with the requirements of the current AASHTO LRFD Bridge Design Specifications.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION PARK AVENUE OVER CALUMET UNION DRAINAGE DITCH F.A.U RT. 3597 SECTION 0710 B COOK COUNTY STA. 100+00.00 STRUCTURE NO. 016-0771

\square LOVO \mathbb{N} C. \square	DESIGNED -	SLV	REVISED	-	-
	CHECKED -	MUM	REVISED	+]
CONSULTING ENGINEERS 1560 WALL ST. SUITE 222	ORAWN -	SLV	REVISED	-	
NAPERVILLE, ILLINOIS 60563 PR: (630) 517-9100	CHECKED -	MJM	REVISED	-	1

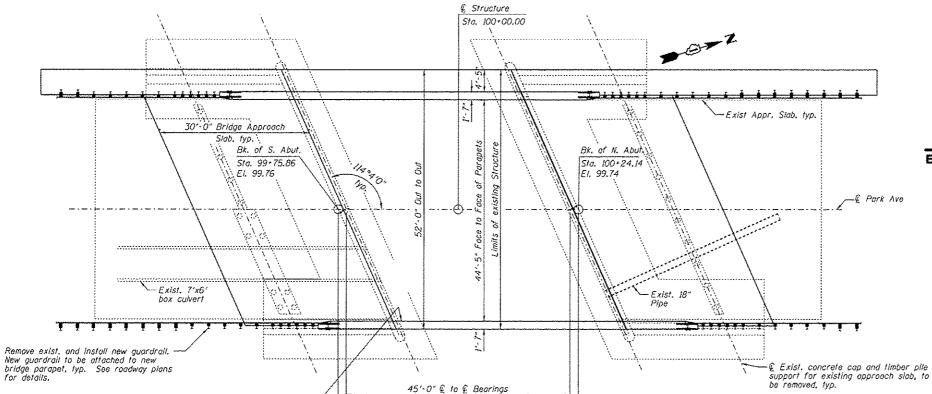
Locate name plate on inside — face of parapet at southeast corner of bridge. Place exist. name plate next to new one

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	RT			
STRUCTURE NO. 016-0771				
Ottooral ito. 010-0171				
SHEET NO. SI OF SI4 SHEETS	_			

COUNTY TOTAL SHEETS NO. SECTION COOK 30 10 597 0710 B 0-91-292-09 CONTRACT NO. 60F95 TILL INOIS FED. AID PROJECT

—F shape parapet 27"x36" PPC Deck Beams ELEVATION



48'-338" Bk to Bk Abutments

PLAN