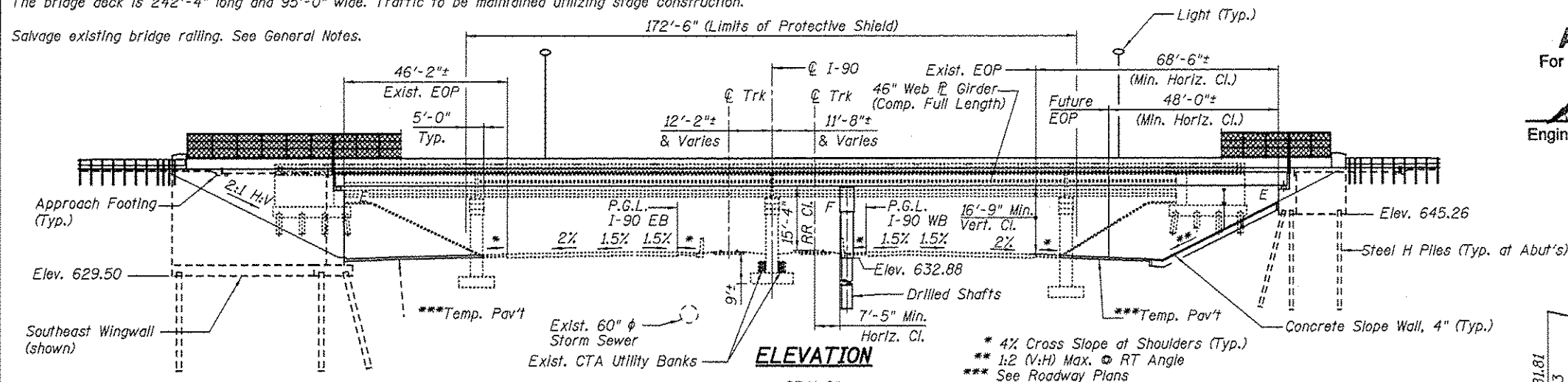


Bench Mark: PK nail on shoulder, 162' north of the center pier, Sta. 119+42.50 Offset 46.5' RT, Elev. 653.65.

Existing Structure: S.N. 016-0700 built as F.A.U. 2746 under Sec. 267-1616 F-15D in 1958. The existing bridge has four simple spans which consist of a 7" reinforced concrete deck slab resting on 48" PPC I-beams. Span lengths are 31'-9", 81'-9", 81'-9", and 38'-3". The bridge deck is 242'-4" long and 95'-0" wide. Traffic to be maintained utilizing stage construction.

Salvage existing bridge railing. See General Notes.



APPROVED
For Structural Adequacy Only

De Carol Kung
Engineer of Bridges & Structures

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications
with 2010 Interims
LOADING HL-93
Allow 50#/#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

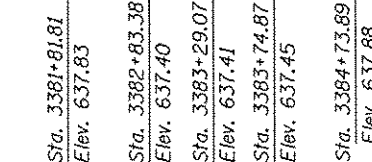
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acc. at 0.2 sec (SDS) = 0.145g
Design Spectral Acc. at 1.0 sec (SD1) = 0.084g
Soil Site Class = D

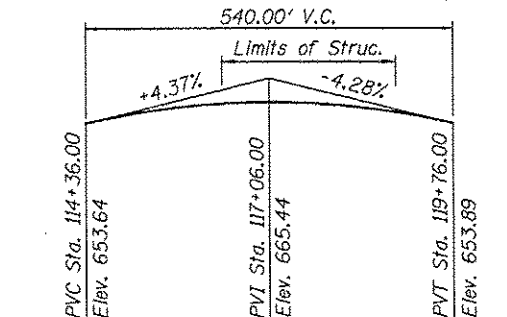
TOP OF RAIL ELEVATIONS

(Along @ I-90 - Existing from CTA Rail Survey)

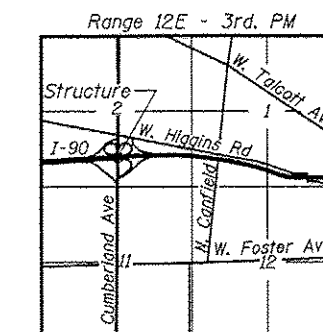
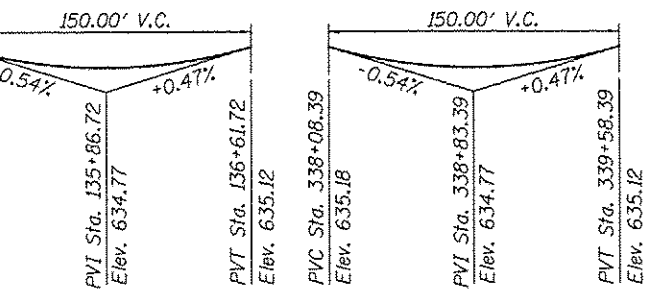


PROF. GRADE- CUMBERLAND AVE.

(along PGL Cumberland Avenue)

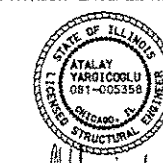


EB
PROFILE GRADE- KENNEDY EXPRWY.
(Along PGL I-90 - Existing from Survey Elevations)



LOCATION SKETCH

PATRICK ENGINEERING, INC.



ATALAY YARGICOGLU, S.E.
081-005358
EXP 11/30/2014
DATE 2/18/2013

LEGEND

- Soil Boring
- Exist. Sewer
- CTA Track
- Exist. Light Pole
- Exist. Drain

GENERAL PLAN
IL ROUTE 171 (CUMBERLAND AVENUE) OVER
INTERSTATE 90 (KENNEDY EXPRESSWAY)
COOK COUNTY
STATION 117+78.10
STRUCTURE NO. 016-1250

 PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME =	DESIGNED - AY	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 016-1250	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - AY	REVISED			2746	1616B	COOK	404	270
	PLOT SCALE =	CHECKED - RLD	REVISED			CONTRACT NO. 60J14				
	PLOT DATE =	DATE - 2/18/2013	REVISED			ILLINOIS FED. AID PROJECT				
	SCALE: NONE				SHEET NO. S1 OF S59	SHEETS				