

Benchmark: CP#108 - Iron rod in ground south of Waubonsie Creek concrete ditch. Sta. 314+62.03, 86.66' Lt, Elev. 682.15.

Existing Structure: None.

Salvage: None.

*** See General Note 11 on sheet S-2.

WATERWAY INFORMATION

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exst.	Prop.		Exst.	Prop.	Exst.	Prop.
Design	10	425	NA	84	678.61	NA	0	NA	678.61
Base	100	849	NA	130	679.82	NA	0	NA	679.82
Overtop Existing	NA	NA	NA	NA	NA	NA	NA	NA	NA
Overtop Proposed	500	1140	NA	156	680.51	NA	0	NA	680.50

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S.	U.S.
	675.68	675.68

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.091
 Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.165
 Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

PRECAST UNITS

f'_c = 5,000 psi
 f_y = 60,000 psi (Reinforcement)

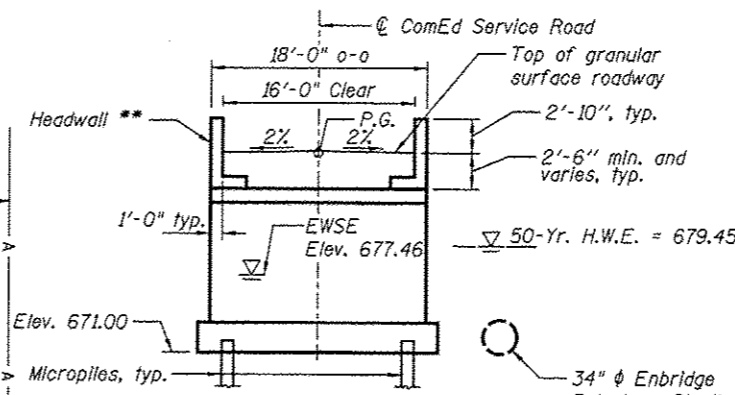
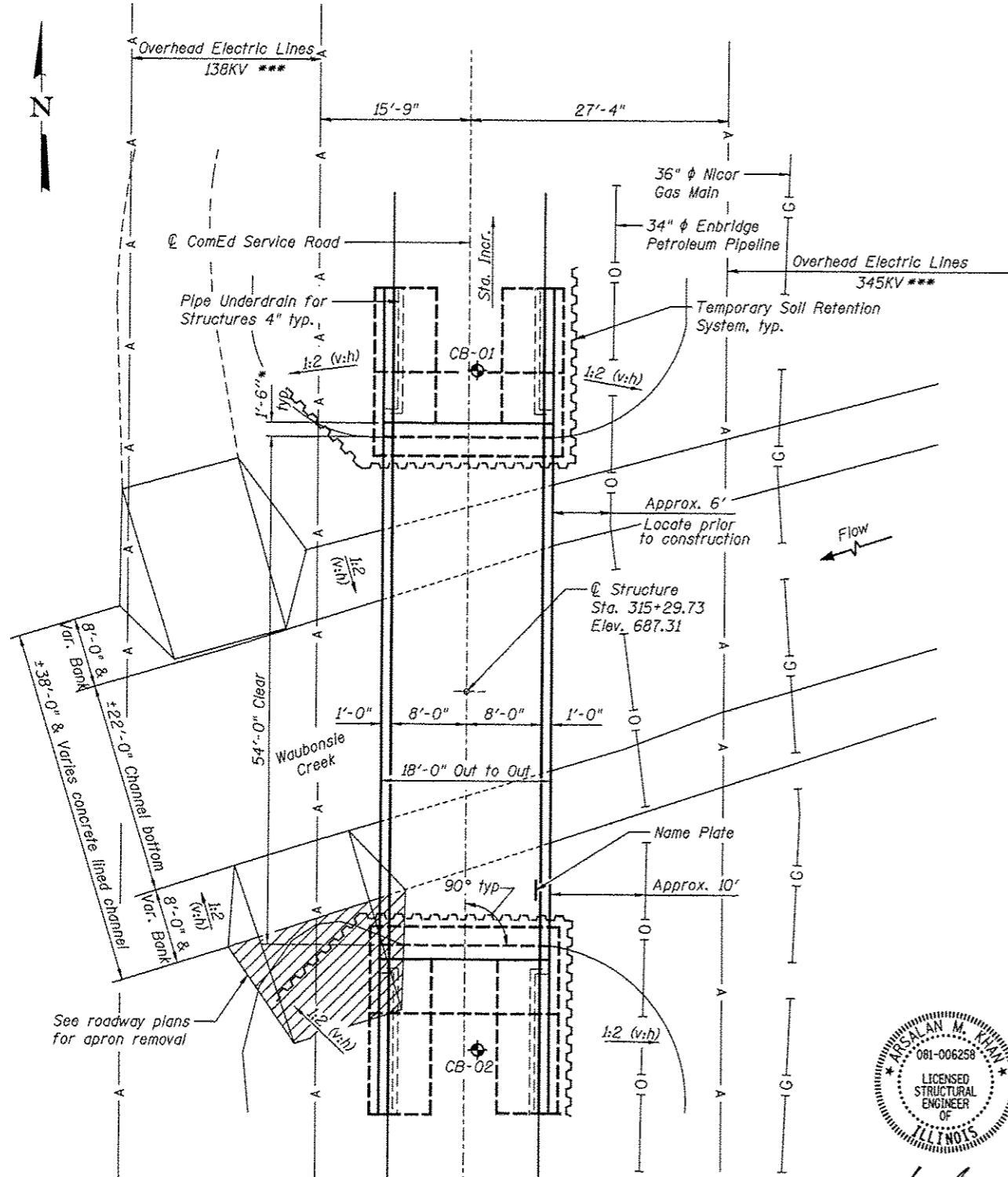
LOADING HL-93 & COMED OVERLOAD VEHICLE & ALT.

(See Loading Diagram)
 No allowance for future wearing surface

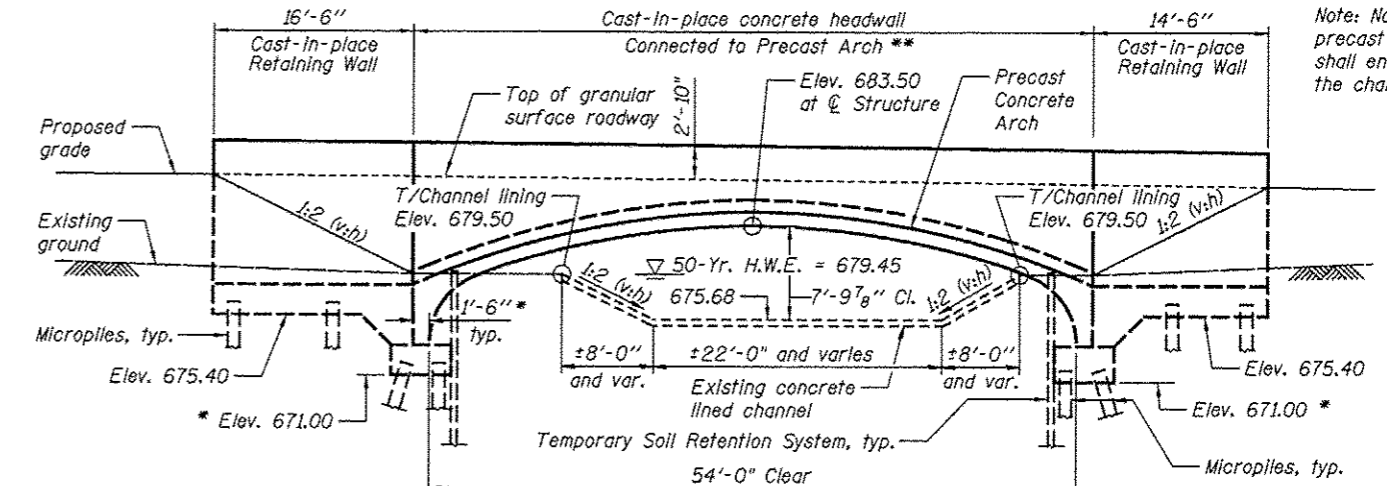
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

** The headwall and its connection with the arch shall be designed for TL-3 impact loading.

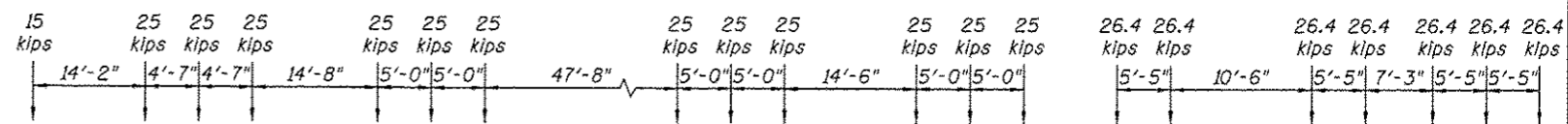


LONGITUDINAL SECTION



ELEVATION

Taken at upstream face, looking west.
 *Wall thickness and bottom of footing elevations may vary as per manufacturer's design.



COMED OVERLOAD VEHICLE LOADING DIAGRAM

ALTERNATE COMED OVERLOAD VEHICLE LOADING DIAGRAM

This Structure was previously reviewed by the Bridge Office as temporary structure number 022-C002

GENERAL PLAN & ELEVATION

COMED SERVICE ROAD OVER

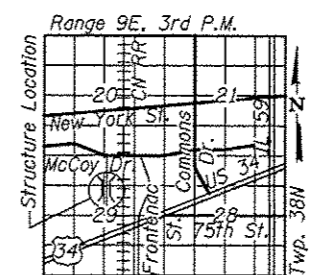
WAUBONSIE CREEK

F.A.P. RTE. 311 - SECTION 2012-0371

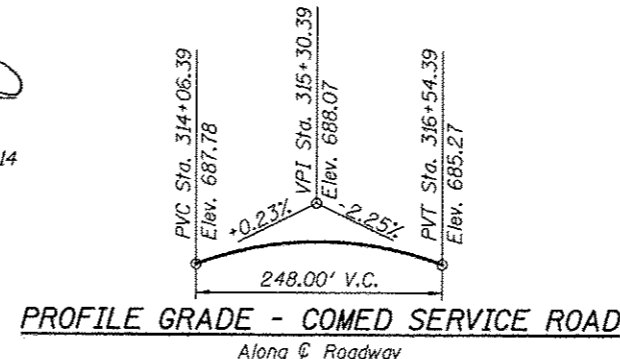
DUPAGE COUNTY

STATION 315+29.73

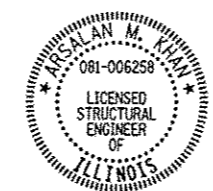
STRUCTURE NO. 022-3046



LOCATION SKETCH



PROFILE GRADE - COMED SERVICE ROAD
 Along @ Roadway



Arsalan M. Khan, S.E.
 LICENSE NO.: 081-006258
 EXPIRES: NOVEMBER 30, 2014

APPROVED
 For Structural Adequacy Only

Engineer of Bridges & Structures

STATION 315+29.73
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A. ROUTE 311 SEC. 2012-0371
 LOADING HL-93 AND ALTERNATE
 STR. NO. 022-3046

NAME PLATE

See Std. 515001

PLAN

LEGEND

Soil Boring Location



USER NAME =	DESIGNED - KMP	REVISED
PLAT SCALE =	CHECKED 7 AMK	REVISED
PLAT DATE =	DRAWN - PMV/KMP	REVISED
	CHECKED - AMK	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	23

CONTRACT NO. 60T83
 ILLINOIS FED. AID PROJECT