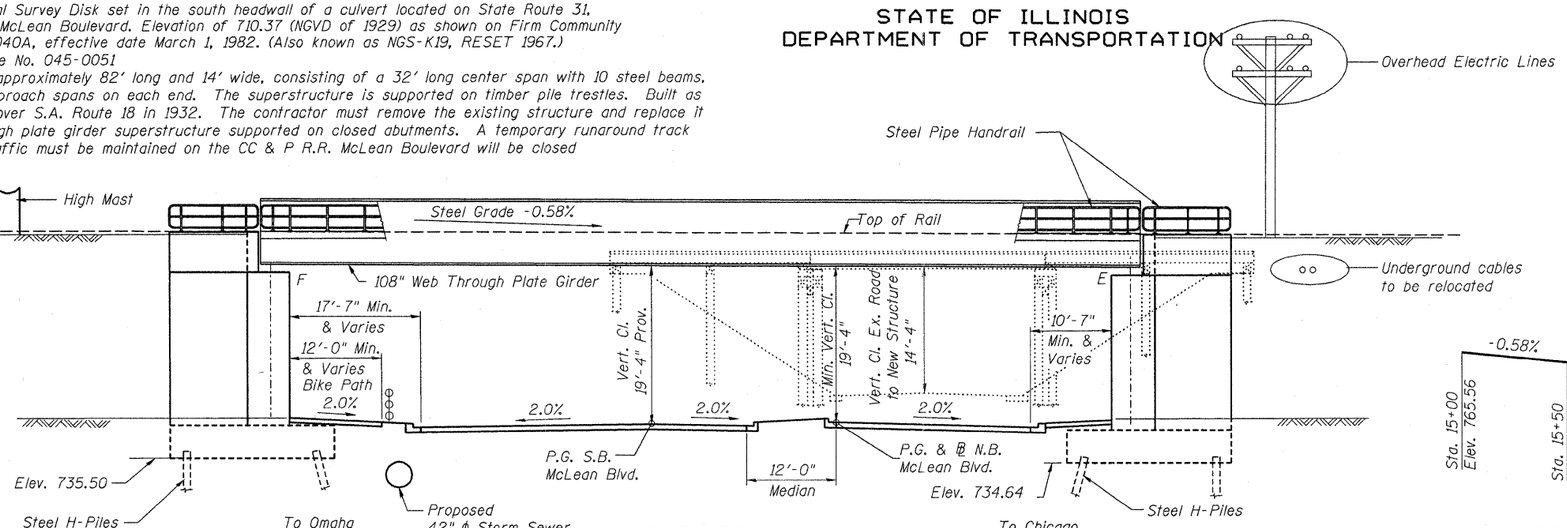
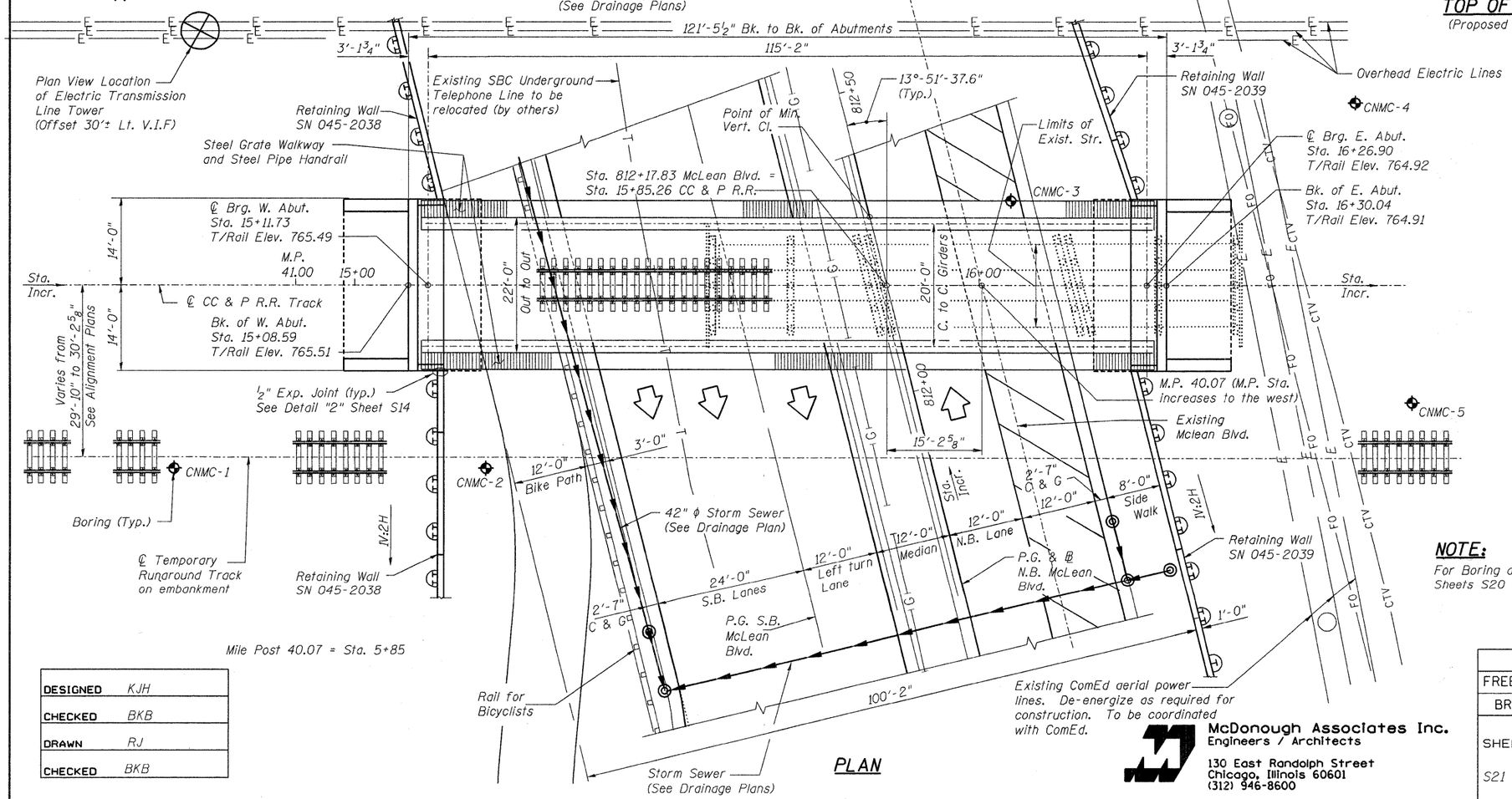
Benchmark RM-12:
A Standard US Geological Survey Disk set in the south headwall of a culvert located on State Route 31, about 130 feet west of McLean Boulevard. Elevation of 710.37 (NGVD of 1929) as shown on Firm Community Panel Number 170896 0040A, effective date March 1, 1982. (Also known as NGS-K19, RESET 1967.)

Existing Structure: Structure No. 045-0051
Five-span ballast deck, approximately 82' long and 14' wide, consisting of a 32' long center span with 10 steel beams, and two timber panel approach spans on each end. The superstructure is supported on timber pile trestles. Built as Illinois Central Railroad over S.A. Route 18 in 1932. The contractor must remove the existing structure and replace it with a single span through plate girder superstructure supported on closed abutments. A temporary runaround track will be constructed. Traffic must be maintained on the CC & P R.R. McLean Boulevard will be closed and a detour provided.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



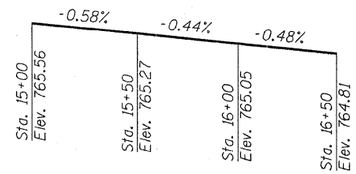
PLAN

LOADING COOPER E-90 OR ALTERNATE LIVE LOADING
IMPACT: Diesel Impact
Allow Imposed Dead Load of 28" of Ballast

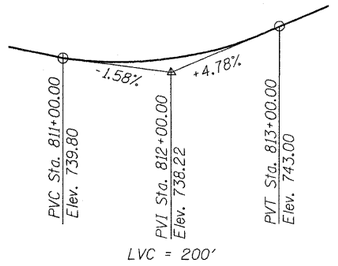
DESIGN SPECIFICATIONS
2008 AREMA Specifications
Live Load+Impact Deflection: L/750
Design Speed: 60 m.p.h.

DESIGN STRESSES
FIELD UNITS
f'_c = 5,000 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Structural Steel)

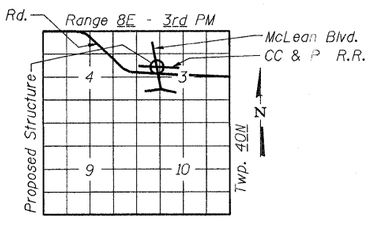
SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.037g
Site Coefficient (S) = 1.0



PROFILE GRADE TOP OF RAIL PROFILE
(Proposed CC & P R.R. Tracks)



PROFILE GRADE McLEAN BOULEVARD



LOCATION SKETCH

LICENSED STRUCTURAL ENGINEER
GERALD E. KOYLASS
081-005264
STATE OF ILLINOIS
Exp: 11/30/2010

NOTE:
For Boring data see Sheets S20 and S21.

DESIGNED	KJH
CHECKED	BKB
DRAWN	RJ
CHECKED	BKB

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

GENERAL PLAN
CHICAGO CENTRAL & PACIFIC R.R.
OVER McLEAN BOULEVARD
SECTION 06-00214-02-BR
KANE COUNTY
STATION 5+85.26
STRUCTURE NO. 045-3163

CN North America's Railroad
FREEPORT SUBDIVSION
BRIDGE NO. W40.07

SHEET NO. S1 S21 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	361	06-00214-02-BR	KANE	219	128
	SN 045-3163		CONTRACT NO. 63073		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		