

BENCHMARK:
 "X" cut on the southeasterly corner of the R.R. bridge pier in the centerline of 159th Street at the east face of the bridge, approximately 98 feet west of Center Street Elevation 603.25

EXISTING STRUCTURE:
 None

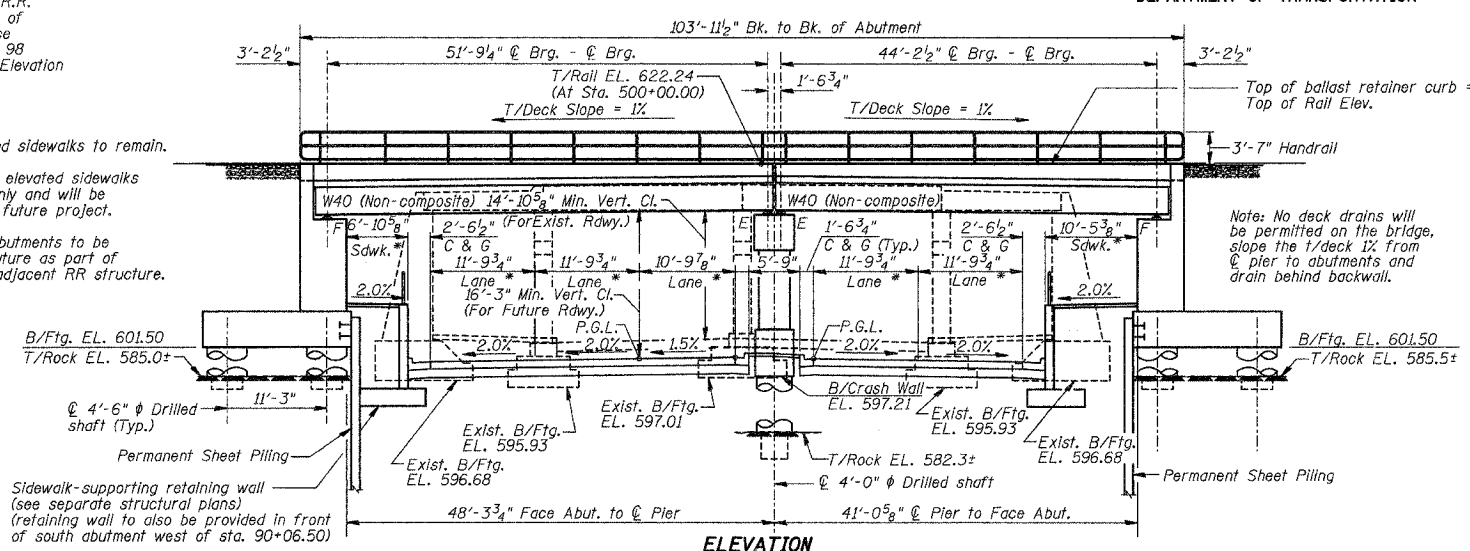
* Existing 2-lane roadway and sidewalks to remain.
 Future 5-lane roadway and elevated sidewalks are shown for reference only and will be constructed by others in a future project.
 Wingwalls at west end of abutments to be constructed by others in future as part of reconstruction of existing adjacent RR structure.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGING:

U.S. Rte. 6 to be closed to traffic during both Stage 1 and Stage 2 of Pier construction only. U.S. Rte 6 to remain open during all other construction of SN 016-2754.
 All 4 CN Tracks on existing bridge to remain open during construction.
 Track #4 to be permanently relocated onto new structure after completion of Stage I construction.
 Track #3 to be permanently relocated onto new structure after completion of Stage II construction.
 Track to be constructed on new structure after completion of Stage II construction for future temporary relocation of Track #2.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	19
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- Contract No. 62206				



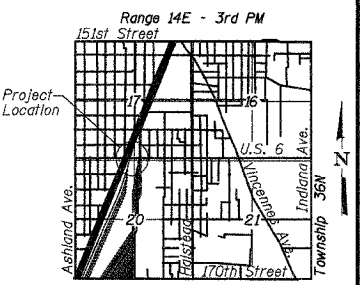
ELEVATION
 (Looking East)
 Note: All horizontal dimensions shown at 90° to Route 6 except span lengths.

Note: No deck drains will be permitted on the bridge, slope the 1/2" deck 1% from @ pier to abutments and drain behind backwall.

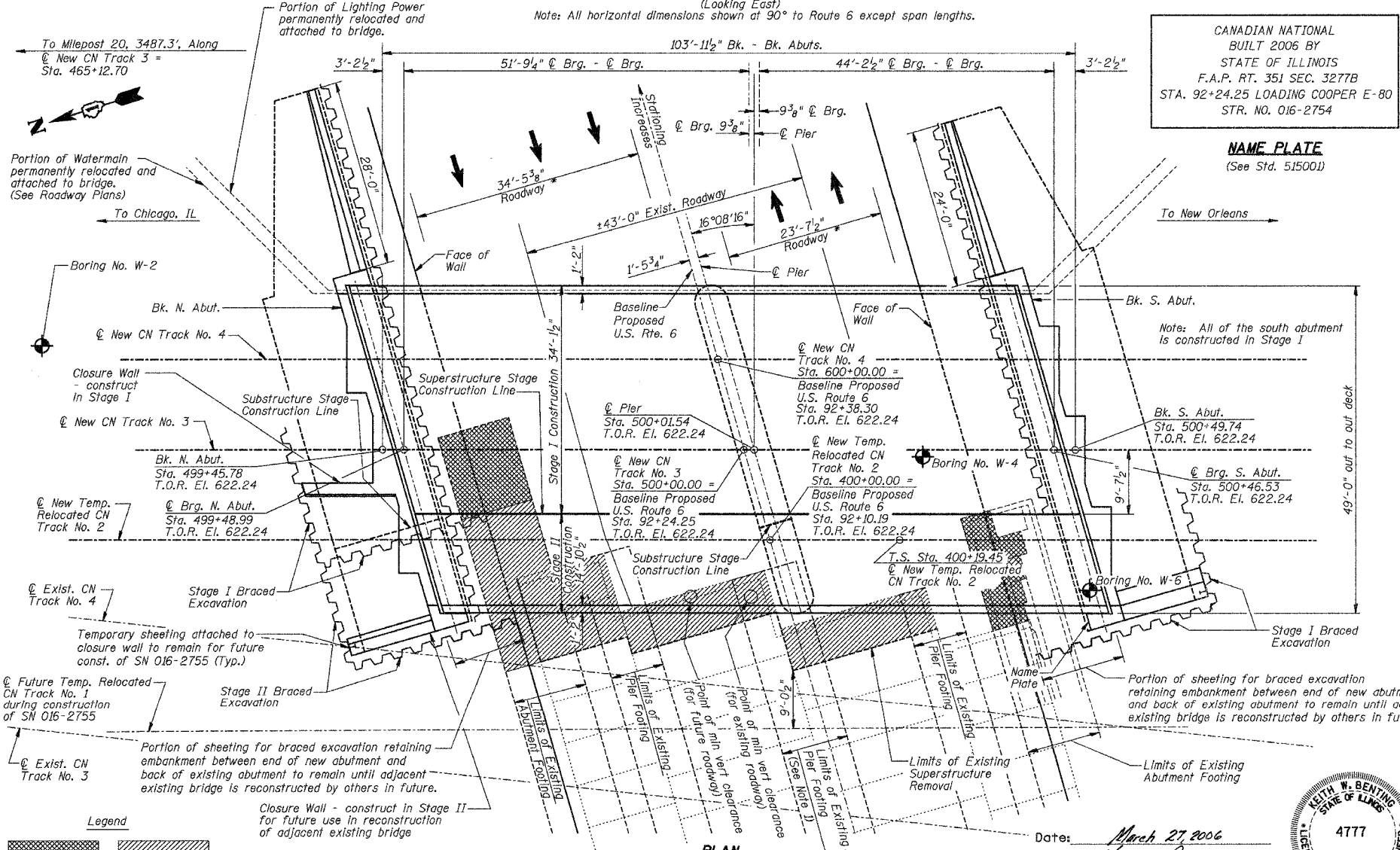
CURVE DATA TEMPORARY

CN TRACK NO. 2

P.I. Sta. 404+25.80
 $\Delta = 9^\circ 51' 27''$ (RT)
 $D = 1^\circ 45' 00''$
 $T = 282.35'$
 $R = 3,274.17'$
 $L = 563.29'$
 $E = 12.15'$
 T.S. Sta. 400+19.45
 S.C. Sta. 401+43.45
 C.S. Sta. 407+06.74
 S.T. Sta. 408+30.74
 S.E. = 2"

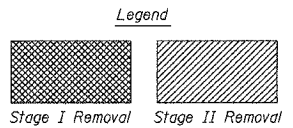


LOCATION SKETCH



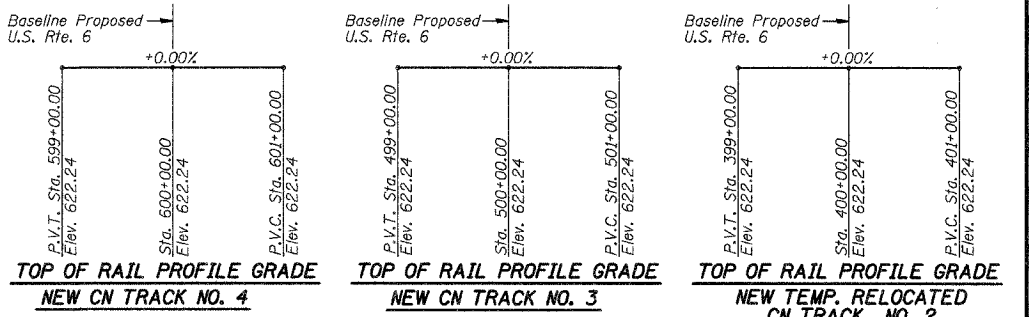
PLAN

Note 1: Pier removal not shown for clarity. See Sheet 13 of 30 for concrete removal details.



CANADIAN NATIONAL
 BUILT 2006 BY
 STATE OF ILLINOIS
 F.A.P. RT. 351 SEC. 3277B
 STA. 92+24.25 LOADING COOPER E-80
 STR. NO. 016-2754

NAME PLATE
 (See Std. 515001)



PROFILE GRADE U.S. RTE. 6
 (Existing)

PROFILE GRADE U.S. RTE. 6
 (Proposed)

DESIGN SPECIFICATIONS

American Railway Engineering & Maintenance-of-Way Association (AREMA) Manual for Railway Engineering, 2003.
 2003 AASHTO Standard Specifications for Highway Bridges.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50,000$ p.s.i. (Struct.) (M270 Grade 50)
 $f_y = 36,000$ p.s.i. (Struct.) (M270 Grade 36)

CN /IC RAILROAD

CLASS: RAILROAD
 ADT: CN Tracks 3 & 4 = 18 Freight Trains Per Day (Combined)
 CN Track 2 = 8 Freight Trains & 2 Passenger Trains Per Day
 Design Speed: 50 mph

LOADING COOPER E-80

Cooper E80 plus Impact for equipment with hammer blow. Service Load Design (CN R.R. Bridge) Allow for future addition of 12" ballast.

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = .039g
 Site Coefficient (S) = 1.0

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson (TS)
 ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN AND ELEVATION			Sheet No.
Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	1
Revisions	Drawn BKN		
	Checked DCS		
	Approved KWB		
Prepared By: URS	3040 N. University Ave., Suite 1 Decatur, IL.		of 30 URS Job No. 36430825

