

Bench Mark: "X" Cut on Top Row of N.W. bolt of Fire Hydrant W. Side of Mannheim Road and first Fire Hydrant S. of Bridge over RR Tracks and Franklin Ave.
 Existing Structure: No. 016-0335. Built as US 12/20/45 (Mannheim Rd.) Sec. 465 VB-R-1 in 1940. Structure widened and rehabilitated in 1978. The superstructure consists of a R.C. deck 1250' long by 100.1' wide supported on 19 spans of Rolled Girder and riveted Plate Girder. Traffic shall be maintained during Structure rehabilitation by staged construction.
 Salvage Materials: None.

DESIGN SPECIFICATIONS

2002 AASHTO Std. Spec. for Highway Bridges

DESIGN STRESSES

f'c = 3.5 ksi (Concrete)
 fy = 50 ksi (M270 Gr. 50 Struct. Steel)
 fy = 60 ksi (Reinforcement)

SEISMIC DATA

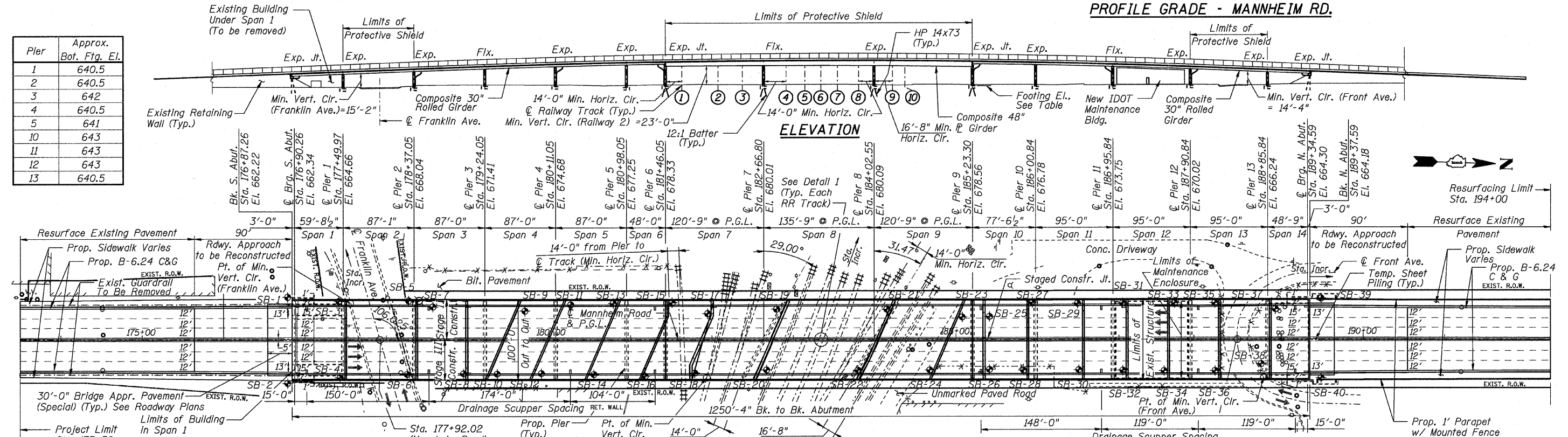
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient (S) = 1.0

LOADING HS20-44

Allow 50 Lbs./Ft² for future wearing surface.

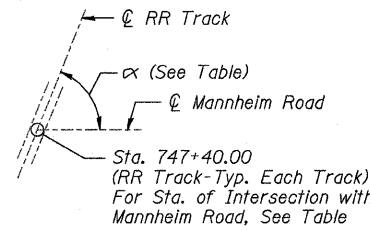
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465 VB-R-1	COOK	103	34
STA. 173+50 TO STA. 195+00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO. 7		CONTRACT # 60407 SHEET NO. 51 of 560		

Pier	Approx. Bot. Ftg. El.
1	640.5
2	640.5
3	642
4	640.5
5	641
10	643
11	643
12	643
13	640.5



Rail No.	Sta. (Mannheim Road)	α (Degree)	Sta. "A"	Elev. "B"	Sta. "C"	Elev. "D"
1	181+62.21	90.8	746+90.00	649.51	747+90.00	649.14
2	182+08.60	74.8	746+88.19	650.20	747+91.81	650.08
3	182+37.99	71.3	746+87.22	650.34	747+92.78	650.17
4	182+90.63	67.8	746+86.01	649.85	747+93.99	649.92
5	183+13.70	67.7	746+85.96	650.08	747+94.04	649.97
6	183+33.30	68.0	746+86.09	649.90	747+93.91	649.92
7	183+53.83	68.9	746+86.42	649.84	747+93.58	650.03
8	183+81.86	58.5	746+81.33	649.82	747+98.67	650.01
9	184+22.26	58.6	746+81.43	649.09	747+98.57	649.11
10	184+37.67	58.6	746+81.42	648.99	747+98.58	648.99

TOP OF RAIL ELEVATIONS



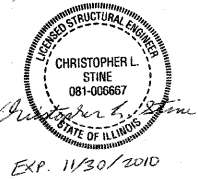
DETAIL 1

NAME PLATE
 (See Std. 515001)

STATION 183+33.30
 BUILT 200_ BY
 STATE OF ILLINOIS
 FAP RT. 330 SEC. 465 VB-R-1
 LOADING HS20
 STR. NO. 016-2815

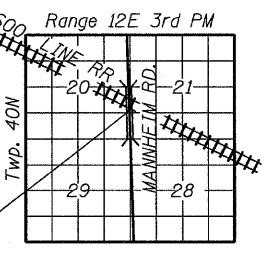
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)
 ENGINEER OF BRIDGES AND STRUCTURES



LEGEND

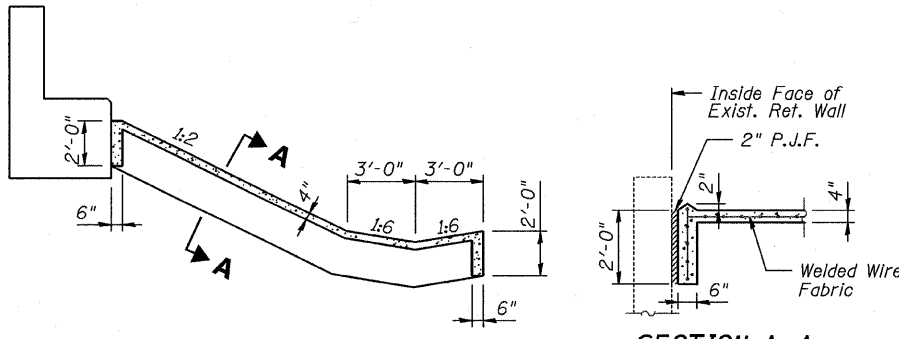
- Boring Location
- Drainage Scupper
- Manhole
- Street Sign
- Fence
- Power Pole
- Switch Control Box
- Fire Hydrant
- Gas Valve



LOCATION SKETCH

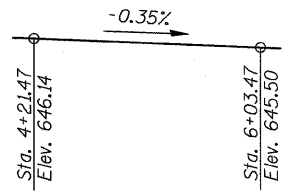
NOTES

- Elevations "B" and "D" represent top of rail elevations at approximately the fascia line of each side of the proposed new structure.
- No deck drains will be permitted in the spans over tracks or within 10' of cross arms of a railroad pole line.
- Conduits to be provided in sidewalk for future bridge lighting.

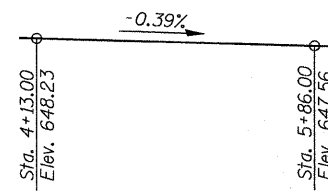


TYPICAL SECTION THRU SLOPE WALL
 (South Abutment shown, North is similar)

SECTION A-A
 Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



PROFILE GRADE - FRANKLIN AVE.
 (Along N. Edge of Pavement)



PROFILE GRADE - FRONT STREET

EARTH TECH | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	GENERAL PLAN & ELEVATION	
		FAP 330 US 12/45 (MANNHEIM RD.) OVER 300 LINE RR & FRANKLIN AVE. STRUCTURE NO. 016-2815	
		SECTION 465 VB-R-1 COOK COUNTY	
		STA. 183+33.30 DRAWN BY JHR	
		DATE 7/2009 CHECKED BY DSB	