

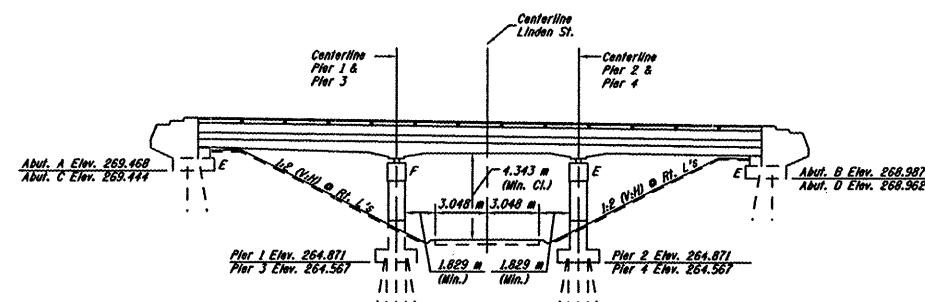
ROUTE NO.	SECTION	COUNTY	LENG.	POST	SHEET NO. 1
FAI 55		MCLEAN	70	66	5 SHEETS
FED. ROAD DIST. NO. 7					STATE PROJECT

• (157-1)HBR-5&VBR-11&57-2HB-1

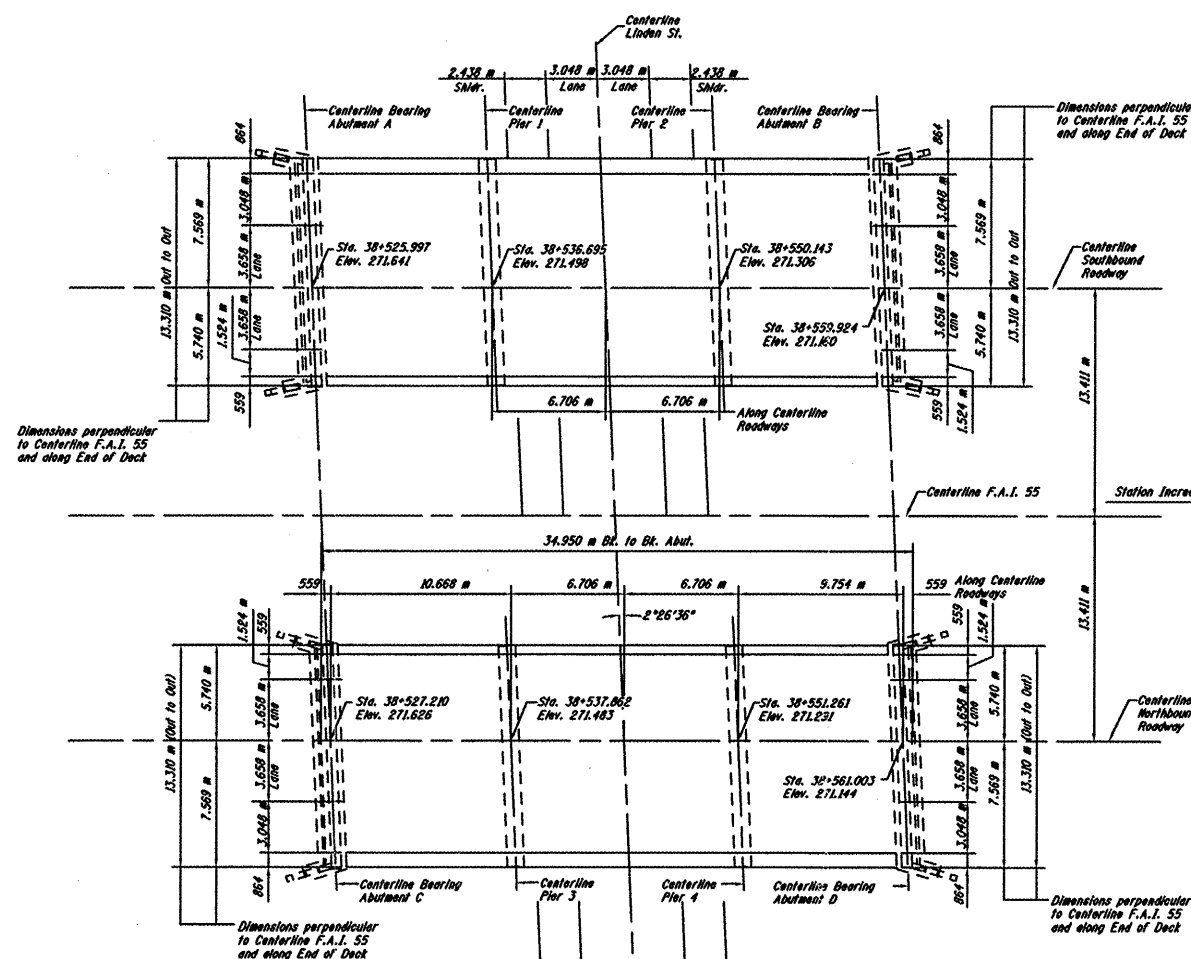
Benchmark: #23 nail in 915 mm cottonwood tree 15,850 m Lt. Sta. 38+561.887 Elev. 268.591

Existing Structures

Structure Number 057-0028 (NB) and 057-0029 (SB) are dual structures carrying F.A.I. Route 55 over Linden Street, Section 57-40B-3, McLean County of Station 38+543.992. Structures were built in 1962 as a continuous slab deck supported by 2 multiple column piers and pile bent abutments. Structures are 13.310 m out-to-out and 34.950 m long. In 1974 the expansion joints were replaced and the deck was waterproofed and resurfaced with 38 mm surface course. In 1992 the outside curbs were retrofitted with new steel railing, deck drains, neoprene expansion joints, and various bearings were replaced. Longitudinal deck joints were eliminated, the waterproofing and surfacing was replaced, and concrete repairs were performed on the substructure.



ELEVATION

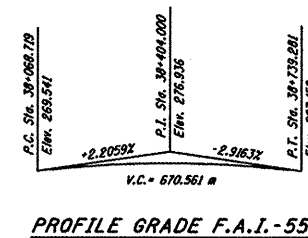


DESIGN STRESSES (EXISTING CONSTRUCTION)

DESIGNED	JDA
CHECKED	JKC
DRAWN	NQ
CHECKED	JDA

Concrete: $f'_c = 24.1 \text{ Mpa}$
 Reinforcement: $f_s = 138 \text{ Mpa}$
 Structural Steel: $f_s = 124 \text{ Mpa}$
 Design Loading: NS18 & Alternate
 Design Specifications: AASHTO 1957

PLAN



PROFILE GRADE F.A.I.-55

Proposed Work

1. Replace all four abutment P.S. Expansion Joints with Silicone Joint Sealer.
2. Deck patching and remove and replace bituminous overlay and waterproofing membrane.
3. Plug deck drains near abutments and piers.
4. Structural repair of concrete of north curb of bridge deck and patch west slope wall of SW 057-0029 (SB).
5. Riprap along southwest and northeast slope call of SW 057-1028 (NB).

Traffic to be maintained by staged construction.

TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub.	Total
STONE RIPRAP, CLASS A3	SD M	--	6	6
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SD M	015.0	--	015.0
SLOPE WALL REMOVAL	SD M	--	1.0	1.0
SLOPE WALL 100 mm	SD M	--	1.0	1.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 125 MM)	SD M	0.4	--	0.4
WATERPROOFING MEMBRANE SYSTEM	SD M	015.0	--	015.0
SILICONE JOINT SEALER	METER	53.3	--	53.3
PLUS EXISTING DECK DRAINS	EACH	16	--	16
DECK SLAB REPAIR (PARTIAL)	SD M	96.0	--	96.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX E, 190	M TON	75.0	--	75.0

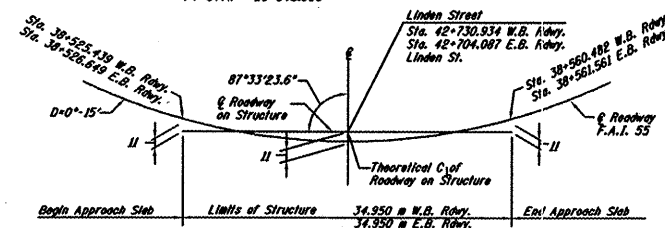
General Notes

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

All dimensions are in millimeters (mm) except as noted.

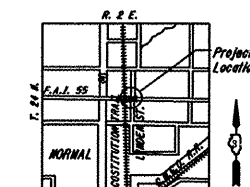
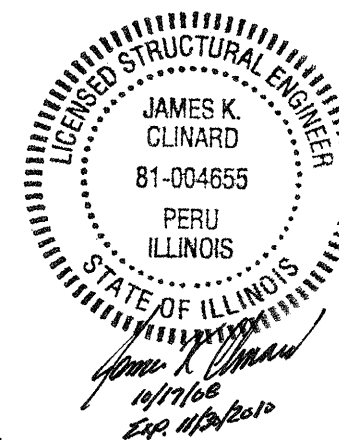
CURVE

PI STA. = 38+663.038
 A = 5° 00' 00"
 D = 0° 15"
 R = 6985.515 m
 T = 182.922 m
 L = 365.761 m
 E = 2.394 m
 S.E. = None
 PC STA. = 38+480.199
 PT STA. = 38+845.960



DETAIL-STRUCTURE LOCATION ON F.A.I. 55

NO SCALE



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
 F.A.I. 55 OVER LINDEN STREET
 MCLEAN COUNTY
 SN 057-0028 (NB)
 SN 057-0029 (SB)
 STA. 38+543.992**

CHAMLIN ASSOCIATES
 PERU ILLINOIS MORRIS