

- BENCHMARKS:**
- CROSS ON BRIDGE
ELEV. 658.35
STA. 27+35, LT.
 - S.W. CORNER CONCRETE FOUNDATION TRAFFIC POLE
ELEV. 651.54
STA. 34+15, RT.

NOTE: EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS-SECTIONS.

REVIEWED BY BURGESS & NIPLE, LTD.
S. A. N. 4-8-92

PROPOSED STRUCTURE

TYPE: 4 SPAN CONTINUOUS RIVETED COMPOSITE PLATE GIRDER W/REINFORCED CONCRETE DECK & SUBSTRUCTURE

SPAN: 72.52', 120.29', 120.29', 72.52' (FIELD VERIFIED)

ROADWAY: 64'-0" F/F CURBS WITH 5'-0" SIDEWALKS

LOADING: HS20-44 AND THE ALTERNATE MILITARY LOADING

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (25'-0") LONG

SKEW: 47° 21' 45" R.F.

CROWN: 3/16" PER FOOT FROM STA. 29+00, AHEAD

SUPERELEVATION: VARIES, STA. 27+86.55 TO STA. 29+00.00
SEE SUPERELEVATION TRANSITION DIAGRAM THIS SHEET

ALIGNMENT: TANGENT

DESIGN AVERAGE DAILY TRAFFIC: 32,220 (2008)

DESIGN AVERAGE DAILY TRUCK TRAFFIC: 1,290 (2008)

EXISTING STRUCTURE

TYPE: 4 SPAN CONTINUOUS RIVETED PLATE GIRDER WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 72.52', 120.29', 120.29', 72.52' (FIELD VERIFIED)

ROADWAY: 59'-0" F/F OF 2'-2" SAFETY CURBS

SKEW: 47° 19' 20" R.F.

ALIGNMENT: TANGENT

LOAD FREQUENCY: C.F. 2000

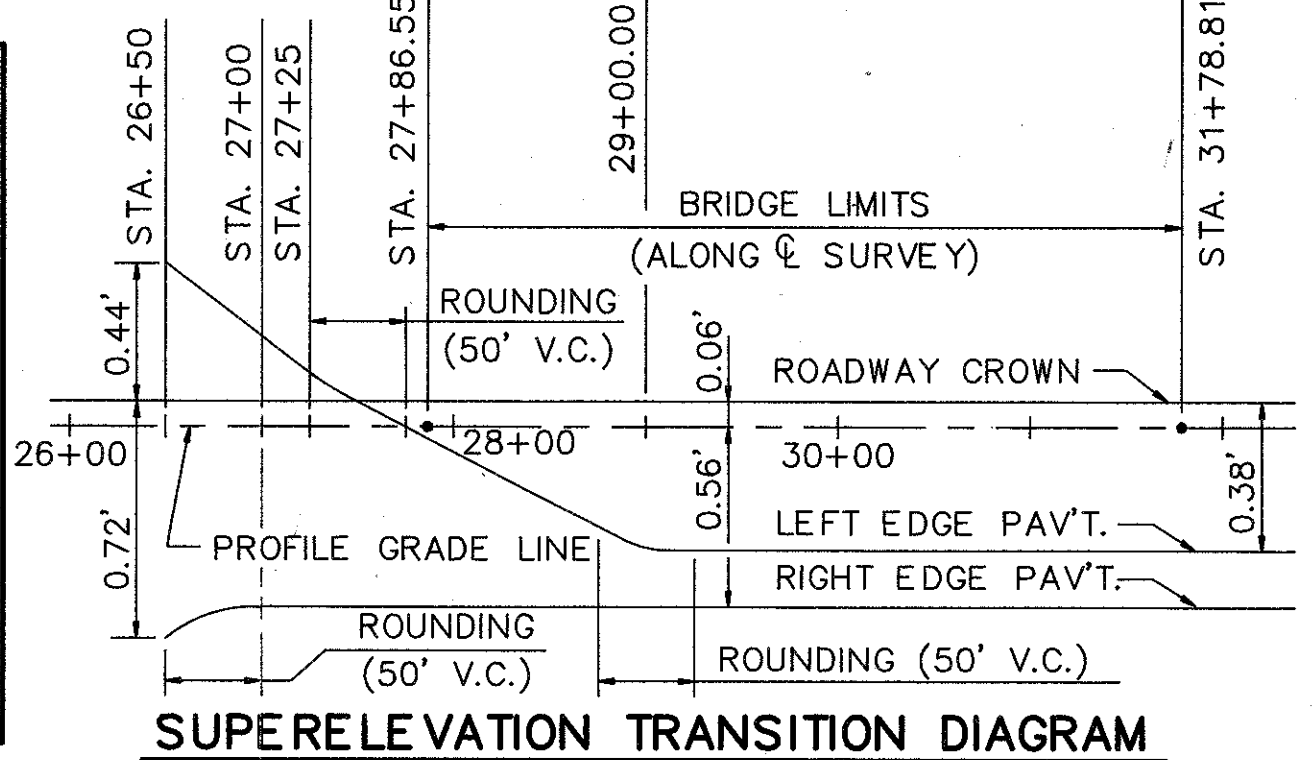
WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: 25'-0" LONG (AS-1-54)

CONDITION: POOR

DATE BUILT: 1959

STRUCTURE FILE NUMBER: 4300874



Station	27+00	+75	28+00	+25	+50	+75	29+00	+25	+50	+75	30+00	+25	+50	+75	31+00	+25	+50	+75	32+00	+50	33+00			
ELEVATION	657.04	658.01	658.11	658.34	658.72	659.06	659.34	659.58	659.76	659.90	659.98	660.02	660.00	659.94	659.82	659.66	659.44	659.18	658.86	658.50	658.08	657.81	657.26	656.09
TRANSITION	20'		20'		20'		20'		20'		20'		20'		20'		20'		20'		20'		20'	
GRADING	+4.80%		-4.80%																					
STRUCTURE	EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION		EXPANSION	
FOUNDATION	12" C.I.P. REINFORCED CONCRETE PILES AT NEW PORTION OF THE ABUTMENT ESTIMATED AVERAGE PAY LENGTH = 45 FT. (TYPICAL)		EXTEND EXISTING WEEPHOLES THROUGH NEW CONCRETE SLOPE PROTECTION (TYPICAL)		EXISTING 12" C.I.P. REINFORCED CONCRETE PILES		12" C.I.P. REINFORCED CONCRETE PILES AT THE NEW PIER (TYPICAL) ESTIMATED AVERAGE PAY LENGTH = 30 FT. (PIERS 1 & 3) ESTIMATED AVERAGE PAY LENGTH = 33 FT. (PIER 2)																	
PROFILES	EX. PROFILE GRADE	657.39	657.95	658.31	658.64	659.02	659.32	659.56	659.74	659.80	660.01	659.99	659.96	659.91	659.78	659.62	659.42	659.18	658.83	658.42	657.99	657.49	657.01	

CT Consultants, Inc.
Engineers • Architects • Planners
Willoughby • Mentor • North Canton • Steubenville • Lorain

SITE PLAN
BRIDGE No. LAK-306-0691
OVER STATE ROUTE 2
LAKE COUNTY

STA. 27+86.55
STA. 31+78.81

SCALE: 1" = 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	L.H.	DRAWN	D.D.	DESIGNED	J.E.A.
				CHECKED	R.L.B.
				REVIEWED	B.J.A.
					R.J.C.

1 / 29