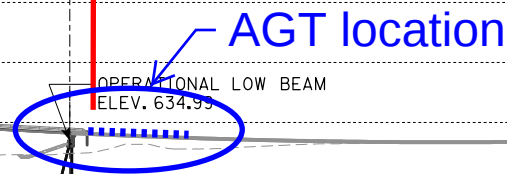


← LIMITS OF TENDON OF A TRAFFIC BARRIER →



LONGITUDINAL SECTION ALONG C-1A 9



POSTED 40 MPH

- AGT location

CURVE DATA
PI STA. 120+32.44
PC STA. 119+13.05
PT STA. 121+51.51
 $\Delta = 7^\circ 09' 11.98''$ (RT)
T = 119.39
L = 238.46
R = 1,910.00
E = 3.73
e = 3.4%
L = 70
x = 41
D.S. = 40 mph

GENERAL PLAN

PLAN NOTES:

ALL UNITS ARE IN FEET UNLESS NOTED OTHERWISE.

TOP OF DECK ELEVATIONS AT $\odot$ ARE 0.03' LOWER
THAN THE PGL TO ACCOUNT FOR CROWN ROUNDING.

VERTICAL DATUM NAVD 88.

CLASS E REVETMENT STONE IS EMBEDDED.

THE BRIDGE WILL BE DESIGNED TO WITHSTAND THE APPLICABLE EFFECTS OF ICE AND THE HORIZONTAL STREAM LOADS ASSOCIATED WITH THE Q100. [BDM 3.2.2.4]

HYDRAULIC DATA

DRAINAGE AREA = 65130 SQ. MI.
STREAM SLOPE = 0.249 FT./MI.
AVG. LOW WATER STAGE = 619.3

Q25 = 197,200 CFS
STAGE = 629.7

Q₅₀ = 225,200 CFS
STAGE = 631.2
REGULATORY LOW BEAM = 685.62
BACKWATER = 0.1 FT.

Q₁₀₀ = 250,100 CFS
STAGE = 632.6
OPERATIONAL LOW BEAM = 635.0
BACKWATER = 0.1 FT.
AVG. BRIDGE VELOCITY = 4.0 FPS

Q₂₀₀ = 272,900 CFS
STAGE = 633.7

Q₅₀₀ = 307,900 CFS
STAGE = 635.3
AVG. BRIDGE VELOCITY = 4.4 FPS

ROADWAY OVERTOP ELEV 634.03
STA. 124+41.87

EXTREME HW STAGE = 634.1
DATE = 04/24/1965

LOCATION

EA 9 OVER MISSISSIPPI RIVER
T-99N R-3W
SECTION 29
LANSING TOWNSHIP
ALLAMAKEE COUNTY, IA
CRAWFORD COUNTY, WI
CITY OF LANSING
FRA NO. 376210E
LATITUDE: 43.36569° N
LONGITUDE: 91.21400° W
FHWA NO. 13521
BRIDGE MAINT. NO. 0361.IS009



DESIGN FOR VARIABLE SKEW
1350'-10 x 40'-0 STEEL THROUGH-TRUSS
& 365'-3 PPCB BRIDGE

112'-10 & 120'-11³/₈ END SPANS MULTIPLE LENGTH INTERIOR SPAN

GENERAL PLAN

IA 9 STA. 112+72.71 MONTH, 202X

ALLAMAKEE COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. 4 OF 116 FILE NO. X DESIGN NO. 124