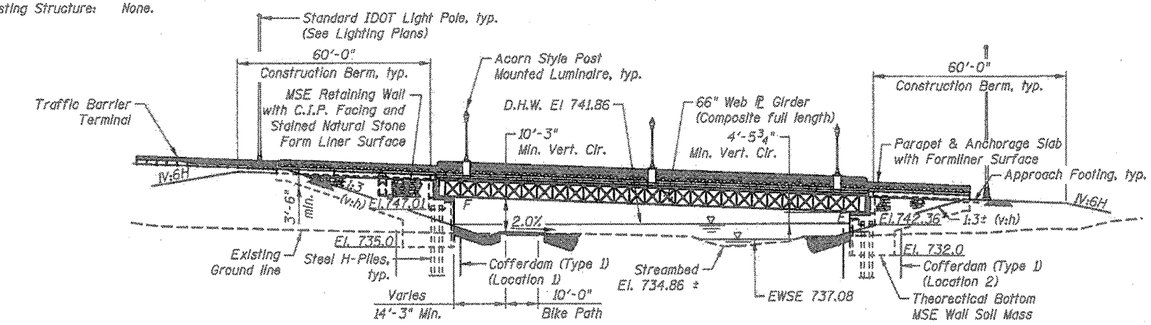
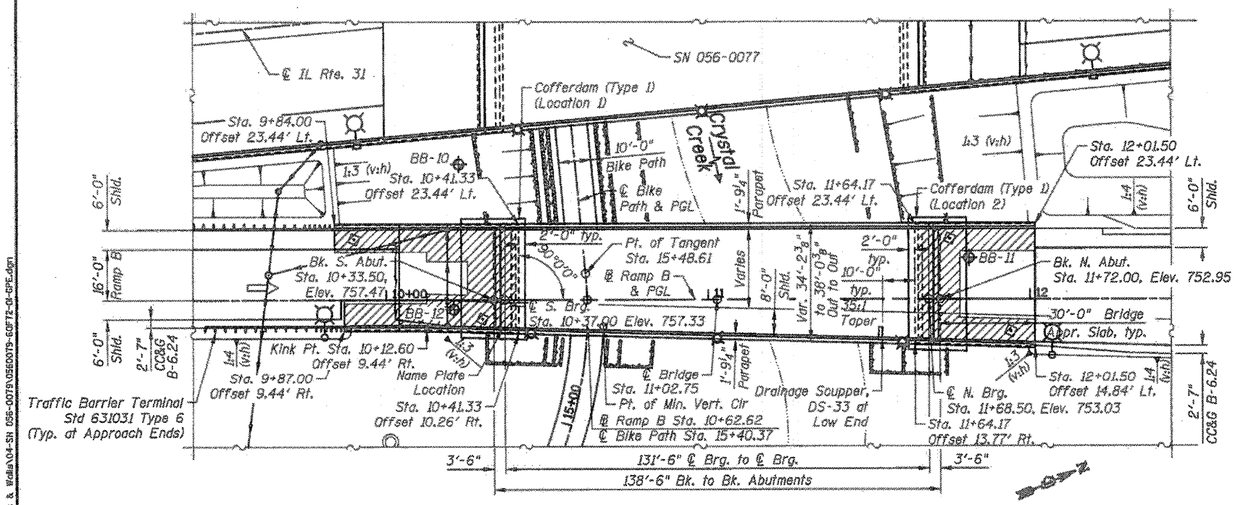
Benchmark: Control Point CP10, $\frac{5}{8}$" Iron Rod with cap set, Ramp B Station 11+51.26, offset 2.12 feet left; Elev. 737.99

Existing Structure: None.



ELEVATION
(Looking West)



PLAN

Settlement platforms shall be erected in accordance with article 204.06 except that the platforms shall be placed at the bottom of the MSE soil mass. Cost shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.

Settlement Platforms
Sta. 11+94, 10-ft. Right
Sta. 11+75, 19-ft. Left
Sta. 9+90, 19-ft. Left
Sta. 6+88, 6-ft. Right

CURVE DATA

Bike Path
Δ = 111° 07' 21.00" (LT)
D = 44° 04' 25.24"
T = 189.59'
L = 252.13'
E = 99.87'
R = 130.00'
SE = 2.0%
P.C. = Sta. 12+96.48
P.T. = Sta. 15+48.61
P.I. = Sta. 14+86.07

WATERWAY INFORMATION

Drainage Area = 26.5 Square Miles Low Grade El.749.05 @ Sta. 8+99.51 (Ramp B)

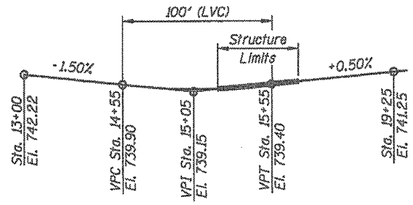
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Wat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1469	-	432.1	740.89	-	0.00	740.89	740.89
Design	50	2647	-	551.4	741.86	-	0.00	741.86	741.86
Base	100	3518	-	621.4	742.44	-	0.00	742.44	742.44
Overtopping									
Max. Calc.	500	5209	-	728.1	743.33	-	0.05	743.33	743.38

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	739.21	734.04

STATION 11+02.75
BUILT 201_ BY
STATE OF ILLINOIS
O.R. 0003 SEC. 18A-2
LOADING HL-93
STRUCTURE NO. 056-0079

NAME PLATE
See Std. 515001



PROPOSED PROFILE
BIKE PATH

PROPOSED PROFILE
NB EXIT RAMP (RAMP B)

CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.

GREGORY J. HATLESTAD, S.E.
081-005562

EXP 11/30/12

DATE 3/15/12

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Gr. 50-Main Girders)
fy = 36,000 psi (AASHTO M270 Gr. 36 - Secondary Members)

LOADING HL-93

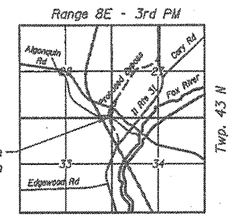
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.081
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.142
Soil Site Class = D

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications
with 2010 Interims



LOCATION SKETCH

GENERAL PLAN & ELEVATION
NB EXIT RAMP (RAMP B) OVER CRYSTAL CREEK
O.R. 0003 SECTION 18A-2
McHENRY COUNTY
STATION 11+02.75, STRUCTURE NO. 056-0079

CIVILTECH
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DRAWN	- M. LANGE	REVISED	-
DESIGNED	- D. ATKINS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 3/23/2012	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
NB EXIT RAMP (RAMP B) OVER CRYSTAL CREEK
STRUCTURE NO. 056-0079
SHEET NO. SC 1 OF SC29 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	526
		CONTRACT NO. 60F72		
		ILLINOIS FED. AID PROJECT		

dlg 3/5/2012

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30625 Pls