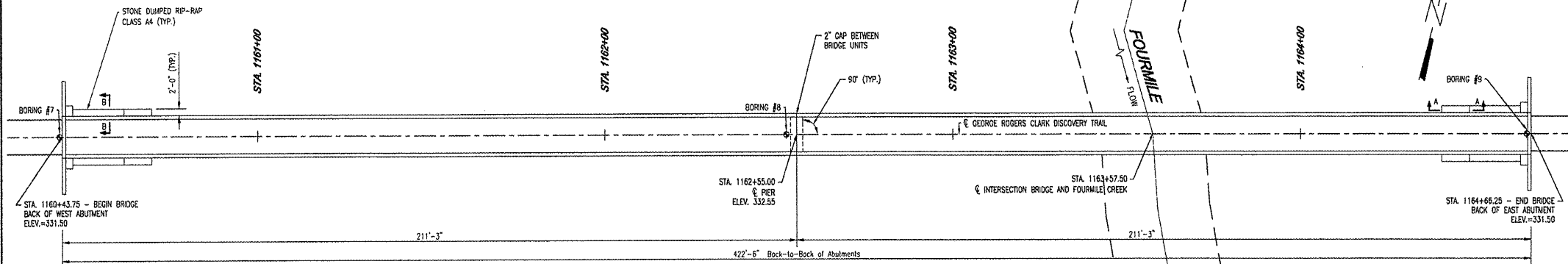


**BENCH MARK**

1/2" DIA. X 24" REBAR, WITH PLASTIC SURVEY CAP MARKED "CITY OF METROPOLIS." C.P. #44, ELEV. = 339.12, LOCATED 2.0' RIGHT OF STATION 1059+73.16.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GR02	09-00038-00-BT	MASSAC	55	34
General Plan and Elevation				
FEDERAL PROJECT NO. ARA-5045(009)			CONTRACT NO. 99417	



**NOTE:**

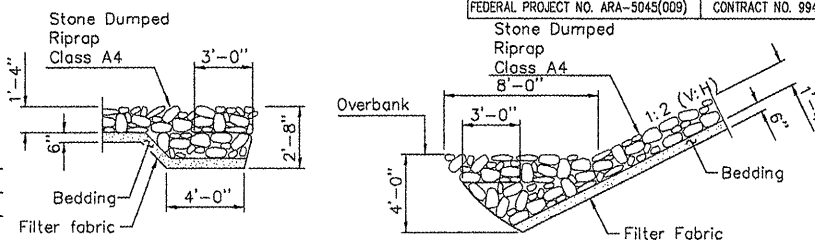
THE RAILROAD TRESTLE BRIDGE HAS BEEN REMOVED. REMNANTS OF THE WOOD PILE FOUNDATIONS STILL EXIST.

**BRIDGE PLAN**

SCALE: 1" = 20'

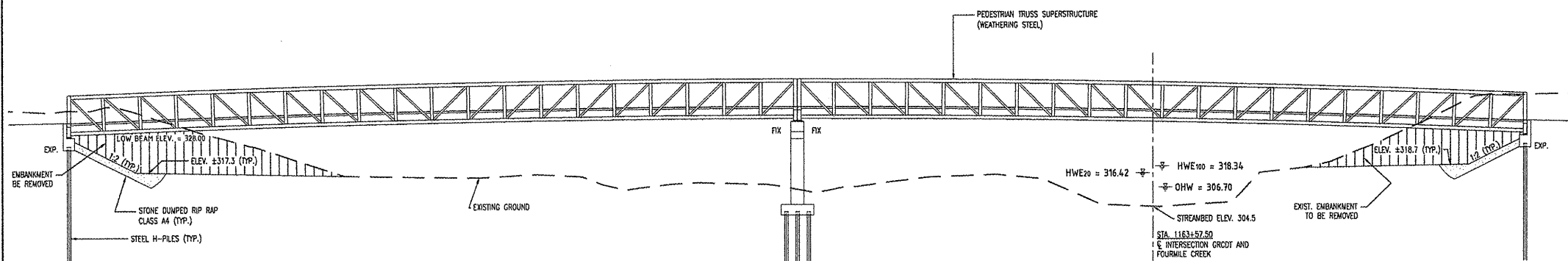
**NOTE:**

THE PUBLISHED 100 YEAR FLOOD ELEVATION FOR THE OHIO RIVER IS 338.0. THEREFORE, BACKWATER FROM THE OHIO RIVER CAN OVER TOP THE BRIDGE.



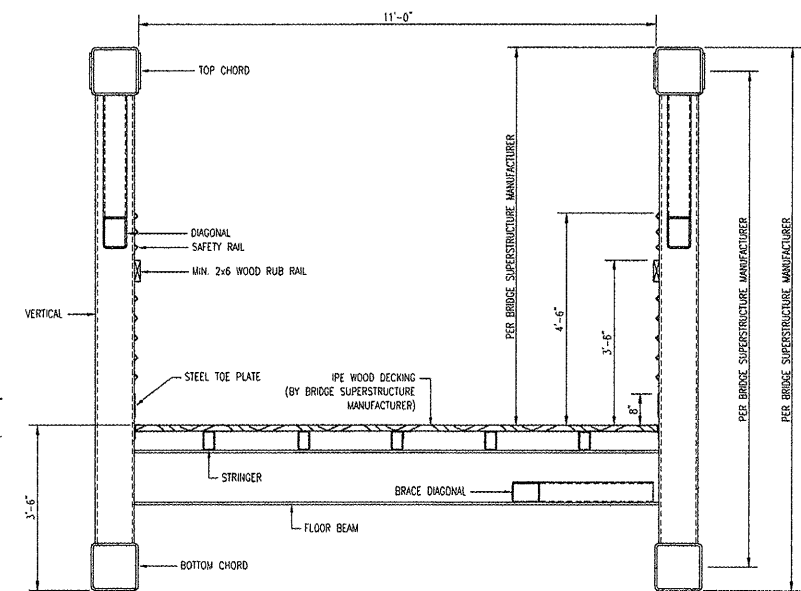
**SECTION B-B**

**SECTION A-A**

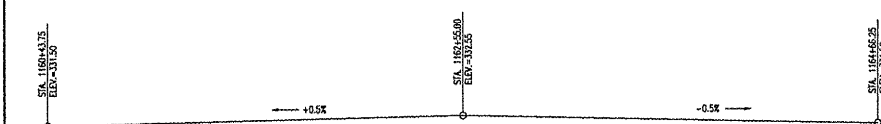


**BRIDGE ELEVATION**

SCALE: 1" = 20' (HORIZONTAL AND VERTICAL)  
OHW = ORDINARY HIGH WATER



**CROSS SECTION**



**PROFILE GRADE**  
(Along & Bike Path)

**WATERWAY INFORMATION**

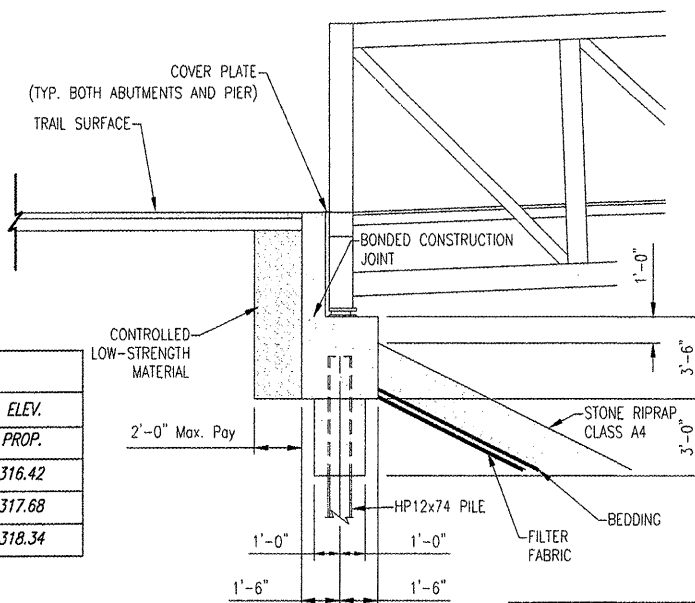
DRAINAGE AREA = 10.376 SQ. MI.

	FREQ. (YR.)	Q (C.F.S.)	OPENING (SQ. FT.)	NATURAL	HEAD (FT.)	HEADWATER ELEV.
			EXIST.	PROP.	H.W.E. EXIST.	PROP.
FLOOD	20	3,027	N/A	890	316.33	316.42
DESIGN	20	3,027	N/A	890	316.33	316.42
CHECK	50	3,830	N/A	1,291	317.52	317.68
BASE	100	4,380	N/A	1,521	318.20	318.34

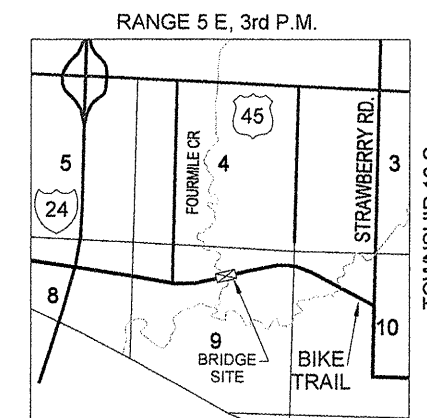
100 YEAR VELOCITY THROUGH PROP. BRIDGE = 4.33 fps

**DESIGN SCOUR ELEVATION TABLE**

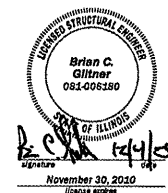
DESIGN SCOUR ELEVATION (ft.)	W. ABUTMENT	PIER NO. 1	E. ABUTMENT
	307.3	310.8	315.0



**SECTION THRU ABUTMENT**



**LOCATION SKETCH**



**HIGHWAY CLASSIFICATION**

CLASS: BIKE PATH  
A.D.T.: N/A  
D.H.V.: N/A  
DESIGN SPEED: 20 MPH  
POSTED SPEED: N/A

**DESIGN STRESSES**

FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (reinforcement)  
fy = 50,000 psi (M270 GRADE 50W)  
fy = 36,000 psi (A36)

**DESIGN SPECIFICATIONS**

2002 AASHTO STANDARD SPECIFICATIONS  
1997 AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES

**LOADING H-10**

85 PSF MIN. LIVE LOAD

**SEISMIC DATA**

SEISMIC PERFORMANCE CATEGORY (SPC) = B  
BEDROCK ACCELERATION COEFFICIENT (A) = 0.15g  
SITE COEFFICIENT = 1.2



**GEORGE ROGERS CLARK DISCOVERY TRAIL  
OVER FOURMILE CREEK**  
SECTION 09-00038-00-BT  
MASSAC COUNTY  
STATION 1163+57.50  
STRUCTURE NUMBER 064-9918