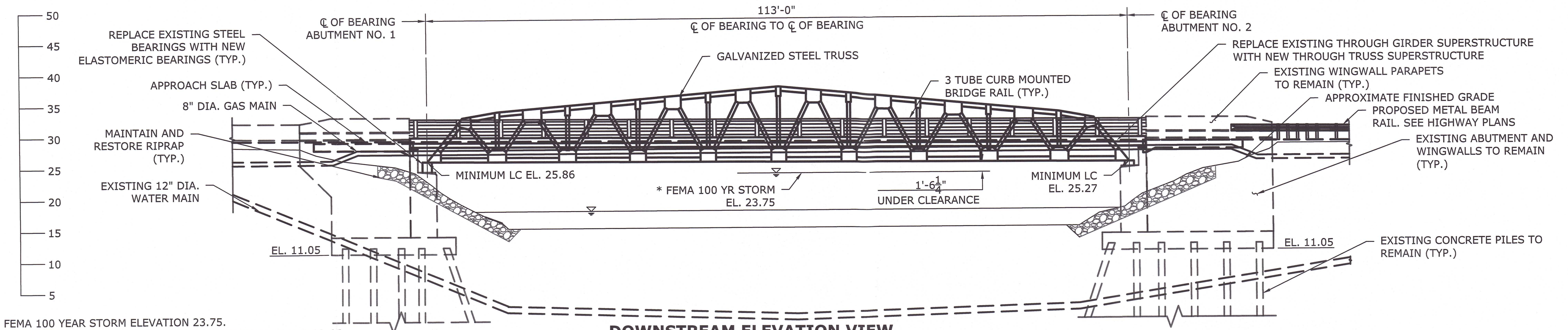


**TYPICAL BRIDGE SECTION**  
SCALE: 1/4" = 1'-0"

**OPENNESS RATIO (OR):**  
 OR = OPEN AREA / LENGTH  
 OR = 996 FT / 36.75 FT = 27.10  
 27.10 FT > \_\_\_ FT (RECOMMENDED MINIMUM)

**BANKFULL WIDTH (BFW):**  
 BFW = 79.67 FT  
 1.2 FT X 79.67 FT = 95.61 FT  
 95.61 FT > \_\_\_ FT (PROPOSED BRIDGE MINIMUM)

HYDRAULIC DATA SUMMARY	
DRAINAGE AREA (SQUARE MILES)	121
DESIGN FREQUENCY (YEARS)	100 YEAR
DESIGN DISCHARGE (CFS)	6,900
AVERAGE DAILY FLOW ELEVATION (FEET)	
DESIGN WATER SURFACE ELEVATION - U.S. (FT)	23.75
DESIGN WATER SURFACE ELEVATION - D.S. (FT)	23.73
MAXIMUM SCOUR DEPTH (FT)	
FREQUENCY (YEARS)	
DISCHARGE (CFS)	
WORST CASE SCOUR SUBSTRUCTURE UNIT	
CONTRACTION SCOUR DEPTH (FT)	
ABUTMENT 1 SCOUR DEPTH (FT)	
ABUTMENT 2 SCOUR DEPTH (FT)	
TOTAL SCOUR DEPTH (FT)	



**DOWNSTREAM ELEVATION VIEW**  
SCALE: 1" = 10'

\* FEMA 100 YEAR STORM ELEVATION 23.75.  
100 YEAR STORM ELEVATION BASED ON ORIGINAL PLANS 23.65

**ENVIRONMENTAL PERMIT PLANS**  
PLAN DATE: APRIL 14, 2021

DESIGNER/DRAFTER: EH CHECKED BY: MM	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: <p>AI Engineers 919 MIDDLE STREET MIDDLETOWN, CT 06457</p>	PROJECT TITLE: <b>REHABILITATION OF BRIDGE 04392 OVER THE QUINNIPIAC RIVER</b>	TOWN: <b>WALLINGFORD</b>	PROJECT NO. XXX-XXX DRAWING NO. <b>S-05</b> SHEET NO.
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	FILENAME: PMT-06 ELEVATION AND SECTION PLAN.DWG	DRAWING TITLE: <b>ELEVATION AND SECTION PLAN</b>			