B-44-126 TYPICAL SECTION – CONCEPT 4

This concept, Figure 8, widens the bridge on the west side of the existing structure. The centerline of the new roadway is shifted 44'-8" west of the existing centerline.

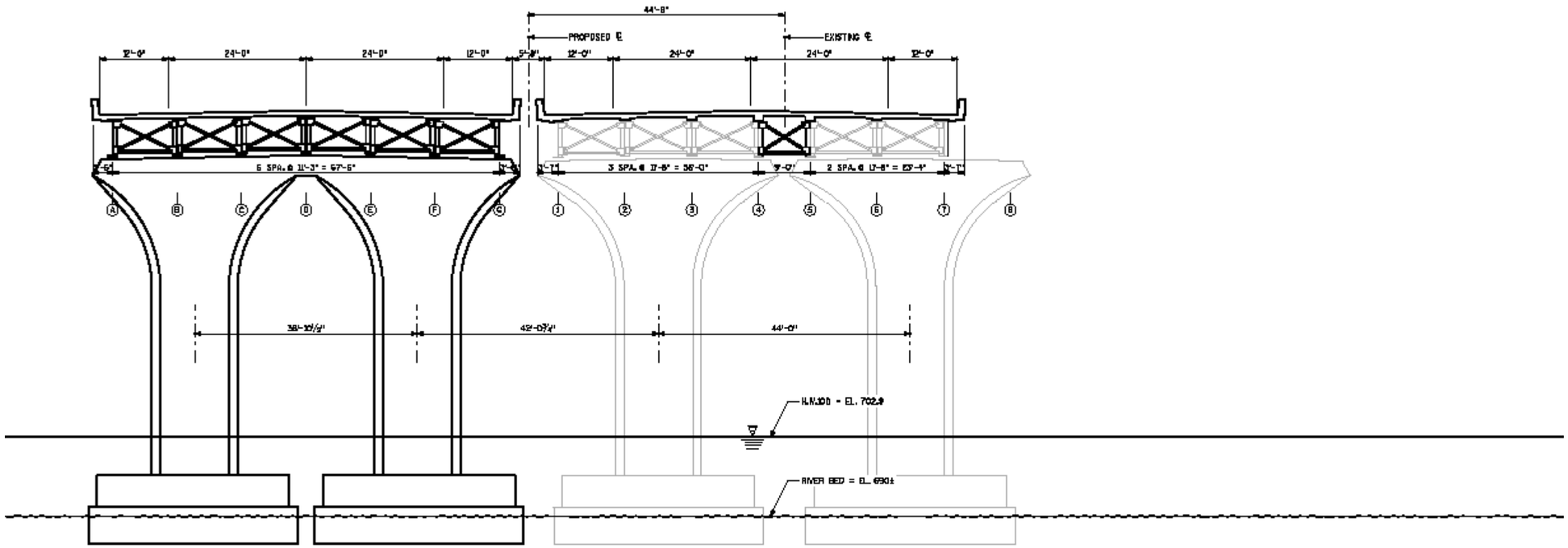
Seven new girder lines and a new set of piers for the southbound traffic is required. Existing girders 4 and 5 are retrofitted with cross frames between them and existing girder 8 is removed.

There is adequate horizontal clearance in span 3 to maintain the 100'-0" wide navigation channel; however, the channel will need to be shifted 13'-2" south to clear the added piers.

Vertical clearance over the CN tracks and STH 96 will be controlled by the existing girders and will remain unchanged. Horizontal clearance to the CN tracks is reduced to 16'-1". A railroad crash wall is not required for solid single shaft piers per Bridge Manual 13.2.4.

Figure 9 shows the plan view of the roadway transition to the new location of B-44-126. Slope intercept lines are also shown in Figure 9 to show approximate impacts. The geometry of the roadway is centered along the existing alignment; however, shifting the alignment to the west from College Ave (CTH CE) to the Fox River could reduce the total number of parcels impacted by the roadway expansion.

There is existing storm sewer in the northwest quadrant of B-44-126. For more detailed information the on the existing storm sewer see section "Existing Storm Sewer" on page 24.



B-44-126 TYPICAL SECTION - CONCEPT 4

LOOKING NORTH

Figure 8


HAWTHORNE DR
CRESTVIEW DR
CONNECT INTO PROPOSED
USH 41/STH 441 MAINLINE
TYPICAL SECTION TO THE NORTH
APPROXIMATE RIGHT OF WAY IMPACTS
WITH RETAINING WALLS
APPROXIMATE RIGHT OF WAY IMPACTS
WITHOUT RETAINING WALLS
LEXINGTON DR
BRIARCLIFF DR
N
FOX RIVER
BAY RIDGE RD
STH 441
MATCHLINE
WELHOUSE DR
FULCER AVE
TIGHT RIGHT-OF-WAY CONSTRAINTS
WITH PROPERTIES CLOSE TO
THE RIGHT-OF-WAY
APPROXIMATE RIGHT OF WAY IMPACTS
WITH RETAINING WALLS
APPROXIMATE RIGHT OF WAY IMPACTS
WITHOUT RETAINING WALLS
SUNSET DR
APPROXIMATE EXISTING OUTFALL LOCATION
FOX RIVER
STH 96
CN RAILROAD
ADDRESS IMPACTS TO PROPOSED
NORTHLAND AVE RAMP LOCATIONS
TO STH 441 NB AND SB
APPROXIMATE RIGHT OF WAY IMPACTS
WITHOUT RETAINING WALLS
N
APPROXIMATE EXISTING OUTFALL LOCATION
STH 441
MATCHLINE
APPROXIMATE RIGHT OF WAY IMPACTS
WITHOUT RETAINING WALLS
CONNECT INTO PROPOSED STH 441
MAINLINE TYPICAL SECTION TO THE SOUTH
FRENCH RD

Figure 9