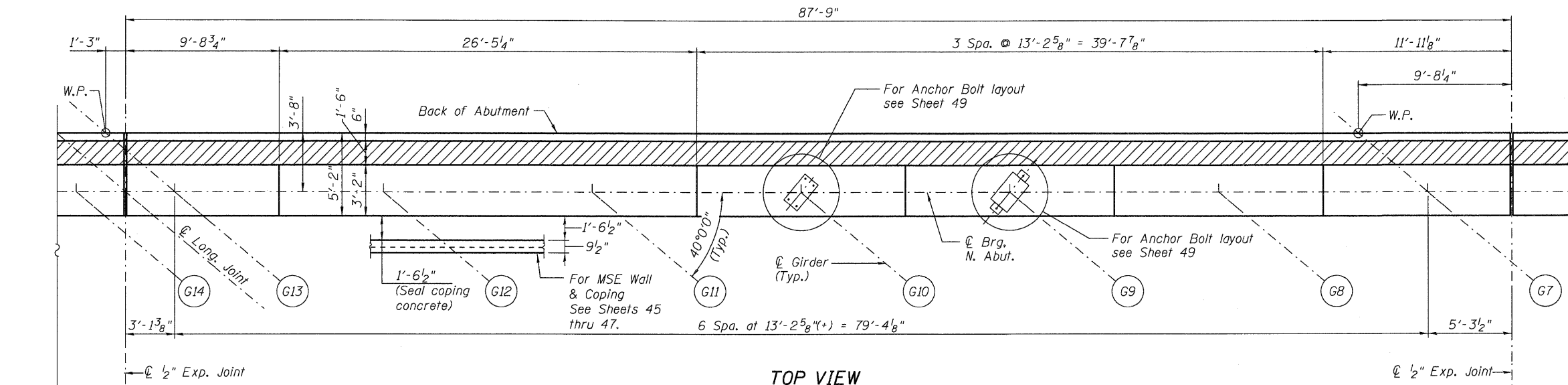
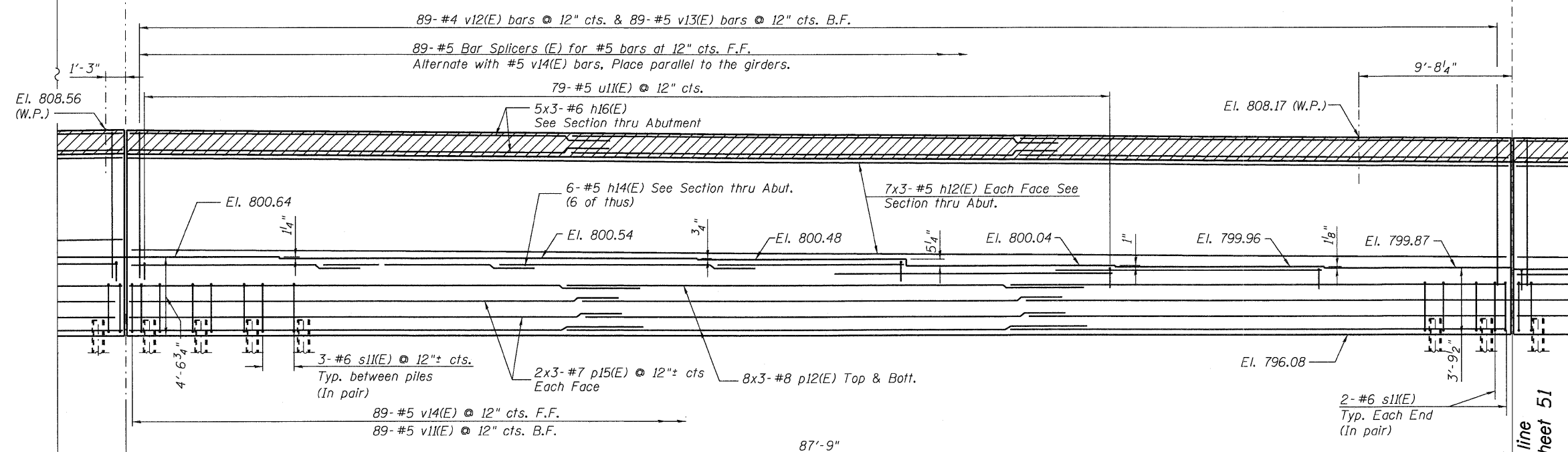


MINIMUM BAR LAP
(Abutment)

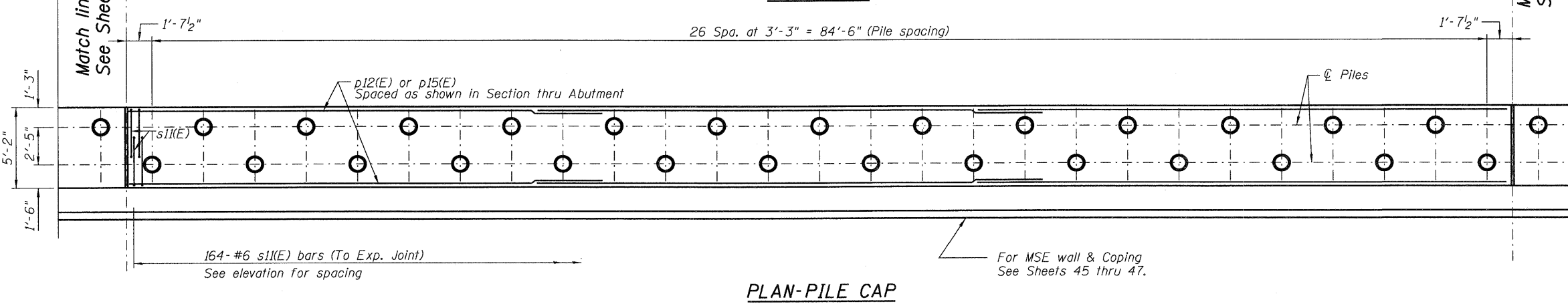
Other Bars	Top Bars
#5 bars = 3'-3"	#5 bars = 3'-8"
	#6 bars = 4'-5"
	#7 bars = 4'-8"
	#8 bars = 7'-8"



TOP VIEW



ELEVATION



PLAN-PILE CAP

PILE DATA

Type: Metal Shell
 14 in dia. X 0.250 in. Walls
 Nominal Required Bearing: 304 kips
 Factored Resistance Available: 167 kips
 Est. Length: 86 ft.
 No. Production Piles: 102
 No. Test Piles: 3
 Piles shall be driven through 24" diameter precored holes extending to an elevation 20 ft. below existing ground surface according to Article 512.09(c) of the Standard Specifications. Cost included in Driving Piles.

Notes:
 Work this sheet with Sheets 48, 49, 51, & 52.
 For Section thru Abutment see Sheet 52.

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = 0450079-60122-050-Abut.N3.dgn	USER NAME = jehrhart	DESIGNED - MJL	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT - 3 STRUCTURE NO. 045-0079	F.A.P. RTE. 347	SECTION LY (HB & VB)	COUNTY DUPAGE/KANE	TOTAL SHEETS 421	SHEET NO. 216		
PLOT SCALE = 1:4	DRAWN - RJ	REVISD -	SHEET NO. 50 OF 67 SHEETS			CONTRACT NO. 60122						
PLOT DATE = 3/20/2012	CHECKED - PMH	REVISD -	ILLINOIS FED. AID PROJECT									