



CALCULATED AND DRAWN BY TBG 10/1/07

✓ *Criff 01/23/08*
 TBG 1/21/08

DR 91
 PIPE T.E. < 5'
 AREA (FROM CADD) = 160.92 SF * 3.6' = 579.53 CF/27 = 21.46 CY
 DS 91
 STRUCTURE T.E. < 5'
 $5' * \text{PI} (3.46')^2 = 188.05 \text{ CF/27} = 6.96 \text{ CY}$
 STRUCTURE T.E. > 5'
 $1.5' ((1.68' + .99' + 1.08') / 3) * \text{PI} (3.46')^2 = 70.52 \text{ CF/27} = 2.61 \text{ CY}$
 TOT = 9.57 CY
 DR 91 GRANULAR BACKFILL
 $(3.6' * .8' * 39.2') - [(\text{PI} (.8')^2 / 2) * 39.2'] = 73.45 \text{ CF/27} = 2.72 \text{ CY}$
 USED 43.58 LF OF 18" CPEP

U.S. ROUTE 5 HARTFORD AVENUE

PROJECT NAME: HARTFORD		PLOT DATE: 03-JAN-2008	
PROJECT NUMBER: RS 0113(40)		DRAWN BY: E. ATKINS	
FILE NAME: ****FILENAME****	DESIGNED BY: K. ISHIKURA	CHECKED BY: K. ISHIKURA	SHEET 223 OF 239
PROJECT LEADER: KEN UPMAL	DESIGNED BY: E. ATKINS	CHECKED BY: E. ATKINS	

SHEET #40