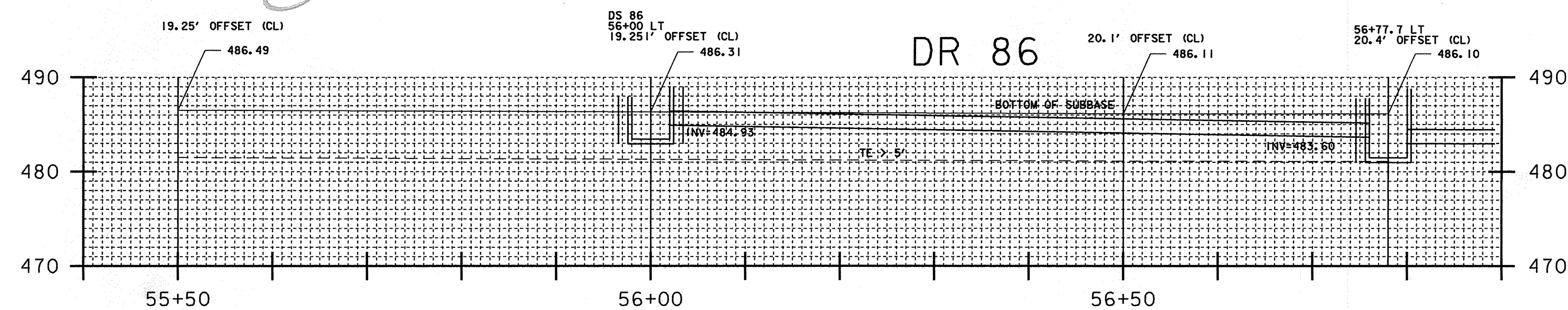


DR 87
 PIPE T.E. < 5'
 AREA (FROM CADD) = 112.26 SF * 3.6' = 404.14 CF/27 = 14.97 CY
 DS 87
 STRUCTURE T.E. < 5'
 $5' * \text{PI} (3.42')^2 = 183.63 \text{ CF/27} = 6.80 \text{ CY}$ (DAILY WAS INCORRECT)
 STRUCTURE T.E. > 5'
 $1.5' [(0.80' + .18') / 2] * \text{PI} (3.42')^2 = 26.99 \text{ CF/27} = 1.00 \text{ CY}$
 TOT = 7.80 CY (UPDATED 1/3/07)
 DR 87 GRANULAR BACKFILL
 $(3.6' * .8' * 33.0') - [(\text{PI} (.8')^2 / 2) * 33.0'] = 61.86 \text{ CF/27} = 2.29 \text{ CY}$
 USED 35.50 LF OF 18" CPEP



DR 86
 PIPE T.E. < 5'
 AREA (FROM CADD) = 138.29 SF * 3.6' = 497.84 CF/27 = 18.44 CY
 DS 86
 STRUCTURE T.E. < 5'
 $(3.40 + 3.38) / 2 * \text{PI} (3.42')^2 = 124.57 \text{ CF/27} = 4.61 \text{ CY}$
 DR 86 GRANULAR BACKFILL
 $(3.6' * .8' * 73.00') - [(\text{PI} (.8')^2 / 2) * 73.00'] = 136.85 \text{ CF/27} = 5.07 \text{ CY}$
 USED 75.50 LF OF 18" CPEP

U.S. ROUTE 5 HARTFORD AVENUE

PROJECT NAME: HARTFORD
 PROJECT NUMBER: RS 0113(40)

FILE NAME: \$\$\$FILENAME\$\$\$ PLOT DATE: 03-JAN-2008
 PROJECT LEADER: KEN UPMAL DRAWN BY: E. ATKINS
 DESIGNED BY: K. ISHIKURA CHECKED BY: K. ISHIKURA
 E. ATKINS SHEET 221 OF 239

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