

40+36.06
SAG

CALCULATED AND DRAWN BY TBG 2/04/08

DR 81

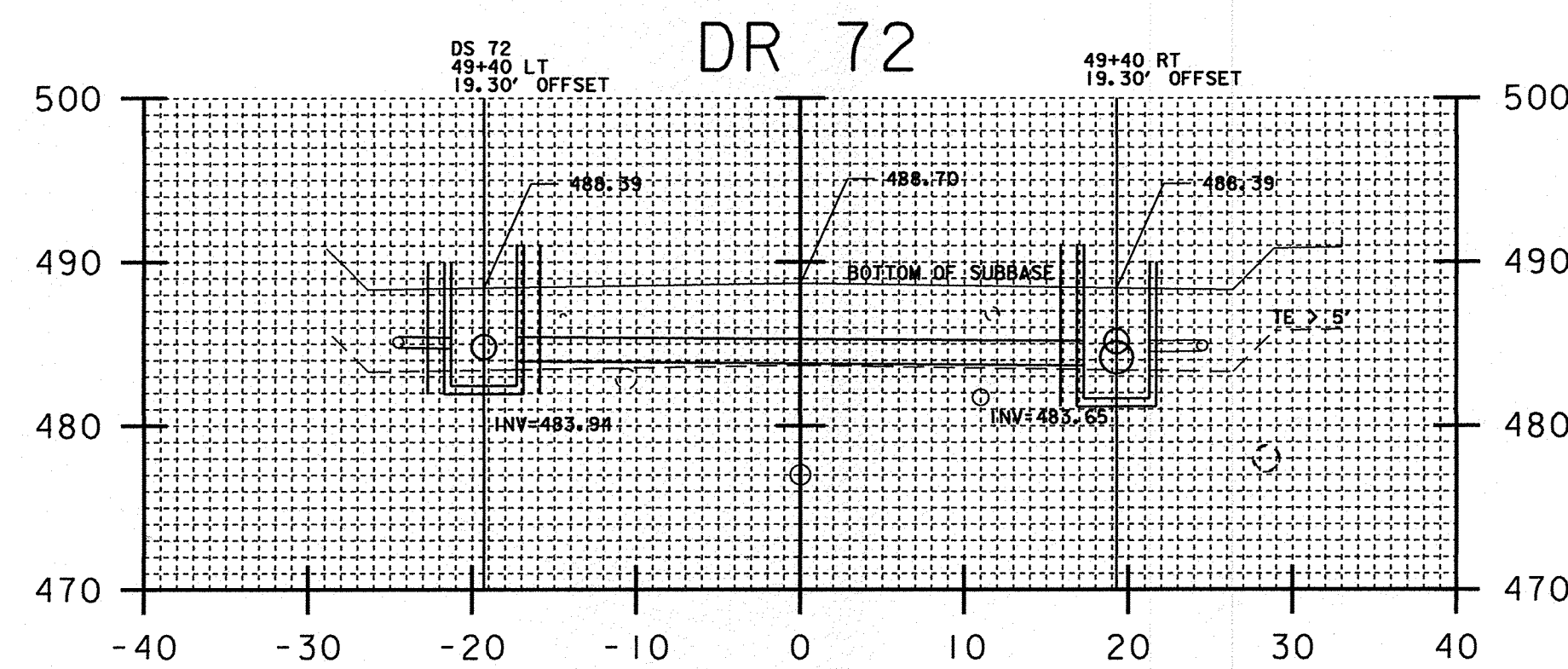
PIPE T.E. < 5'
AREA (FROM CADD) = 23.96 SF * 3.75' = 89.85 CF/27 = 3.33 CY

DS 81

STRUCTURE T.E. < 5'
(4.07+3.98+5.00)/3 * PI (3.42')² = 159.84 CF/27 = 5.92 CY

DR 81 GRANULAR BACKFILL
(3.75' * .88' * 13.2') - [(PI (.88')²/2) * 13.2'] = 27.50 CF/27 = 1.02 CY

CPH 02/26/08



49+40.00

CALCULATED AND DRAWN BY TBG 2/04/08

DR 72

PIPE T.E. < 5'
AREA (FROM CADD) = 151.48 SF * 3.75' = 568.05 CF/27 = 21.04 CY

DS 72

STRUCTURE T.E. < 5'
5' * PI (3.42')² = 183.73 CF/27 = 6.80 CY

STRUCTURE T.E. > 5'
1.5C ((1.41' + 1.51')/2) * PI (3.42')² = 80.47 CF/27 = 2.98 CY
TOT = 9.78 CY

DR 72 GRANULAR BACKFILL
(3.75' * .88' * 33.7') - [(PI (.88')²/2) * 33.7'] = 70.22 CF/27 = 2.60 CY

CPH 02/26/08

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

FILE NAME: ***FILENAME***
PROJECT LEADER: KEN UPMAL
DESIGNED BY: K. ISHIKURA
E. ATKINS

PLOT DATE: 05-FEB-2008
DRAWN BY: E. ATKINS
CHECKED BY: K. ISHIKURA
SHEET 220 OF 239

SHEET #31