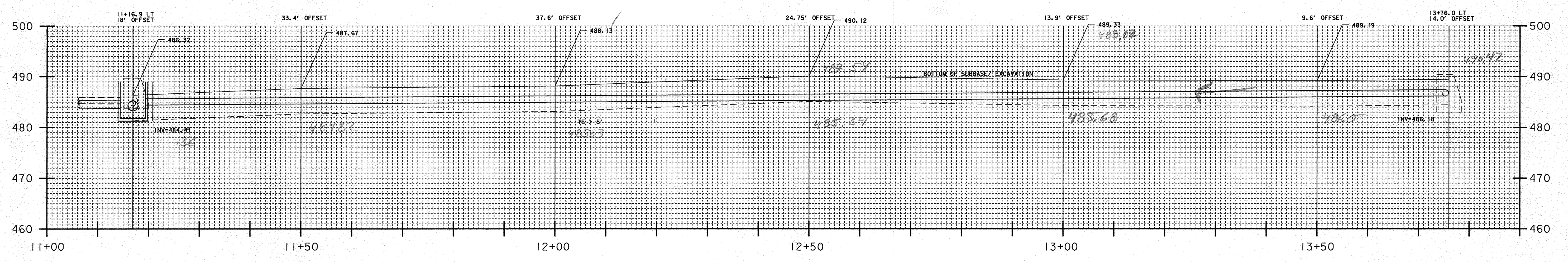


DR 42



CALCULATED AND DRAWN BY TBG 11/16/07  
*CPH 01/14/08*

DR 42 (RELAY) *Pipe station on curve*  
 PIPE T.E. < 5'  
 AREA (FROM CADD) = 450.93 SF \* 3.25' = 1465.52 CF/27 = 54.28 CY

DR 42 GRANULAR BACKFILL  
 $(3.25' * .63' * 232.8') - [(PI (.63')^2) * 232.8'] = 331.52 CF/27 = 12.28 CY$  (EXISTING PVC @ 13+76 LT, WHY PIPE LENGTH DIFFERS FROM GRANULAR LENGTH)  
 USED 206.63 LF OF 15" PVC RELAY PIPE

STA	DEPTH	AVG	LENGTH/AREA	WIDTH
11+20	1.76	2.105	30 = 72.15	
11+50	2.85	2.775	50 = 138.75	
12+00	3.1	2.65	50 = 132.50	
12+50	2.2	2.27	50 = 113.50	
13+00	2.34	2.965	50 = 138.25	
13+50	3.17	3.715	24 = 89.16	
13+74	4.74			

$611.31' * 3.25' = 2256.37' = 83.57 CY$

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

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

PLOT DATE: 03-JAN-2008  
 DRAWN BY: E. ATKINS  
 CHECKED BY: K. ISHIKURA  
 SHEET ~~239~~ OF 239

SHEET #18