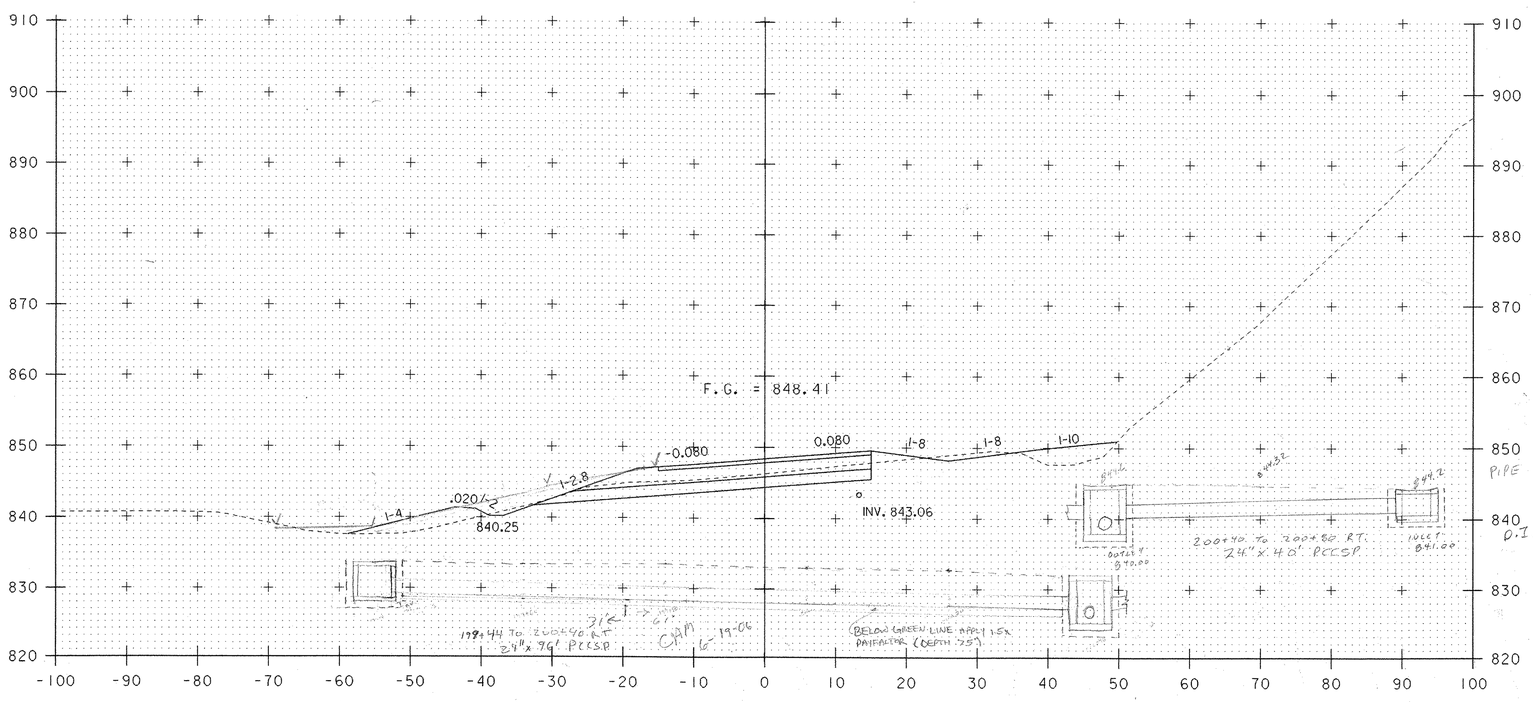

24" RCCSP 199+44 - 200+40 RT

Trench

Underbody

$\frac{1}{2}(3')(\frac{1}{3}')\times 5' = \frac{7.875\ ft^3}{27} = 1.14\ CY$ @ 100%

$(\frac{.5'+1'}{2}) \times 3' \times 5' = \frac{9.0\ ft^3}{27} = 3.44\ CY$

$1' \times 61' \times 5' = \frac{305\ ft^3}{27} = 9.04\ CY$

sub total $\frac{1.14}{2.48\ CY}$ @ 150%

1/11/2007

TRENCH TOTAL
24" RCCSP 199+44 - 200+40 RT
1.15
18.22
14.22
65.31
97.90 CY

KRM 1-9-07

CAM 6-19-06

D.I. $8' \times 5' \times 6' = \frac{333.6\ ft^3}{27} = 12.44\ CY$

$1.5(8' \times 2' \times 6') = 6$

Pipe $(4.5' + 4.25' \div 2) \times 6' = 26.25$

GRANULAR BACKFILL FOR STRUCTURE
PIPE $\frac{72'}{36} \times 3' \times 1' \div 27 = 8.00$
D.I. $\frac{72'}{36} \times 3' \times 1' \div 27 = 8.00$
6x8x1 $\div 27 = 1.78$
T.T. = 17.78 CY

CAM 6-19-06

NO BKG IN THIS RUNS

UNDER DI 199+44

DI 199+44 RT
$8 \times 6' \times 6' \div 27 = 10.67$
- MINUS DI VOLUME
$- 4' \times 6' \times 6' \div 27 = -5.33$
SEE SHEET 29 FOR DI 200+40 RT
5.34 CY

KRM 1-9-07

TRENCH EARTH
24" RCCSP 200+40 - 200+80 RT

Pipe $(\frac{4.5' + 3.25'}{2}) \times 36LF \times 5' = \frac{697.5\ FT^3}{27} = 25.83\ CY$

$8 \times 6 \times 5 \div 27 = 8.89\ CY$

T.O.T. TR. EA. = 29.56 CY

6-14-06 LJN

6-14-06 CAM

1/11/2007

KRM 1-9-07

Common
64
129
63
128

KRM 12-27-06
6-19-06

64.5

$\frac{64.25}{0.64} = 100.39\ FT^2$

GRANULAR BACKFILL FOR DI 200+80 RT
$(6' \times 8' \times 5') - \text{DI VOLUME}\ (4' \times 6' \times 5') \div 27 = 4.44\ CY$

KRM 1-9-07

1.14 CY
1.78 CY
5.34 CY
2.13 CY

KRM 1-9-07

0 10 20
SCALE IN FEET

STA. 203+60 TO STA. 203+60

PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP ST 030-3(4)	
FILE NAME: d04e060xslx.dgn	PLOT DATE: 18-OCT-2005
PROJECT LEADER: A. BOMBARDIER	DRAWN BY: M. NUTTER
DESIGNED BY: M. NUTTER	CHECKED BY: A. BOMBARDIER
IPARM NAME: de060xs21.1	SHEET 53 OF 63