

2:03:15 Common Excavation

200+09	200+25	200+38	200+45	200+53	200+77
$6 \times 2 = 12 \text{ Fe}^2$	$\frac{1}{2}bh$ $(5)(6)(13) = 39$	$\frac{1}{2}bh$ $(5)(4)(8) = 16$	$\frac{1}{2}bh$ $(5)(7.5)(8.5) = 20.19$	$\frac{1}{2}bh$ $(5)(8.75)(16) = 70$	$\frac{1}{2}bh$ $(5)(7)(14) = 49$
	$\frac{1}{2}bh$ $(5)(6)(13) = 39$	$\frac{1}{2}bh$ $(5)(4)(8) = 16$	$\frac{1}{2}bh$ $(5)(4.75)(8.5) = 20.19$	$\frac{1}{2}bh$ $(5)(7)(14) = 49$	$\frac{1}{2}bh$ $(5)(7)(14) = 49$
	$(6.0)(6.0) = 36 \text{ Fe}^2$	$(4)(6) = 24$	$(4.75)(6) = 28.5 \text{ Fe}^2$	$(7.9)(6) = 47.4$	$(7)(6) = 42$
	$39 + 39 + 36 = 114 \text{ Fe}^2$	$24 + 16 + 16 = 56 \text{ Fe}^2$	$20.19 + 20.19 + 28.5 = 68.88$	$70 + 49 + 47.4 = 166.4$	$49 + 49 + 42 = 140 \text{ Fe}^2$

STA 200+09 To STA 200+25 $\frac{(12+14)(16)}{2} = 1008 \text{ Fe}^3$	STA 200+25 To STA 200+38 $\frac{(14+56)(13)}{2} = 1105$	STA 200+38 To STA 200+45 $\frac{(56+68.88)(7)}{2} = 437.08$
$\frac{1008 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 37.33 \text{ YD}^3$	$\frac{1105 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 40.93 \text{ YD}^3$	$\frac{437.08 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 16.19 \text{ YD}^3$

STA 200+45 To STA 200+53 $\frac{68.88 + 166.4(7)}{2} = 823.48 \text{ Fe}^3$	STA 200+53 To STA 200+77 $\frac{166.4 + 140.0(24)}{2} = 3676.8 \text{ Fe}^3$
$\frac{823.48 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 30.50 \text{ YD}^3$	$\frac{3676.8 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 136.18 \text{ YD}^3$

$37.33 \text{ YD}^3 + 40.93 \text{ YD}^3 + 16.19 \text{ YD}^3 + 30.50 \text{ YD}^3 + 136.18 \text{ YD}^3 = 261.13 \text{ YD}^3$

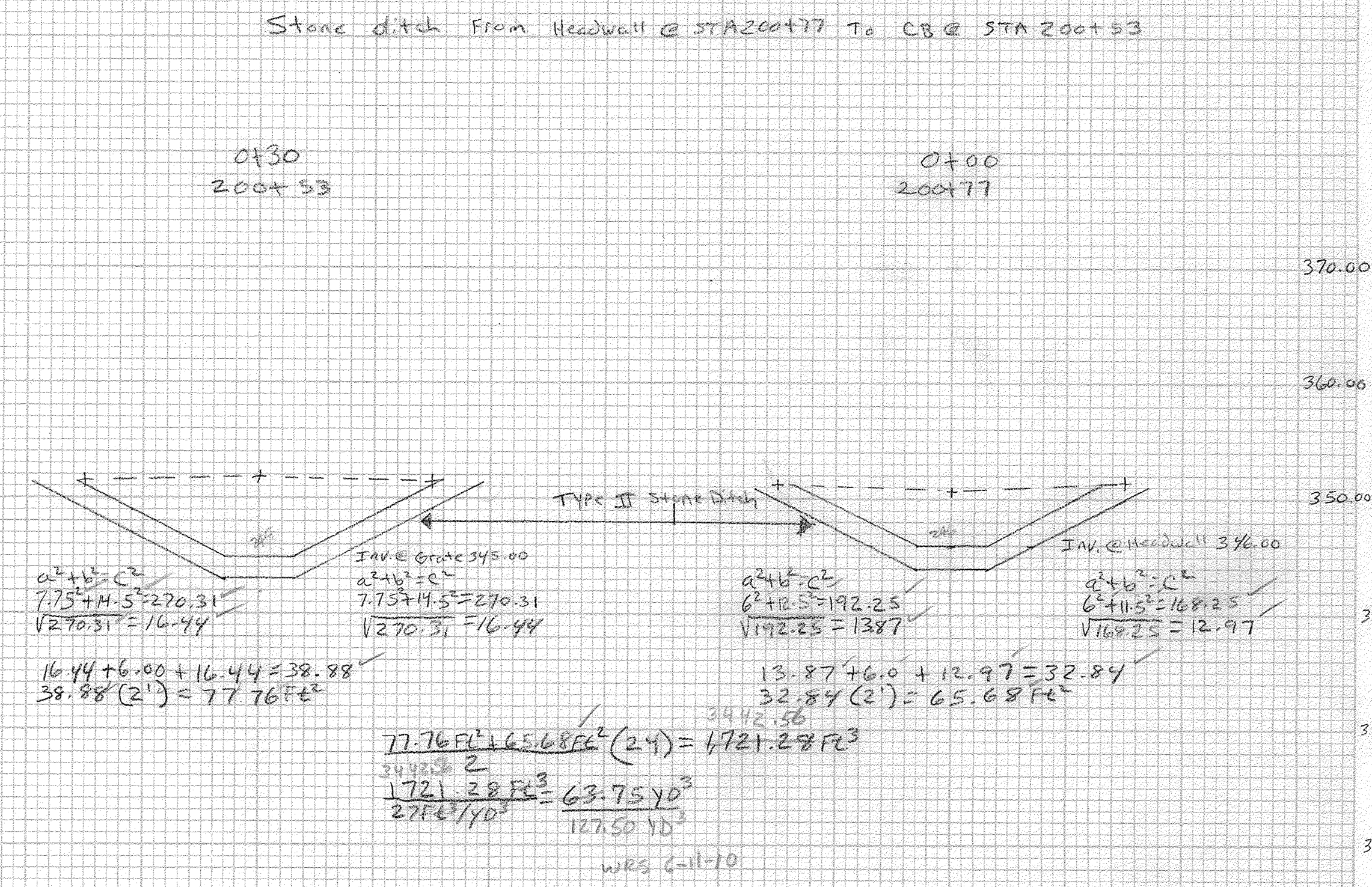
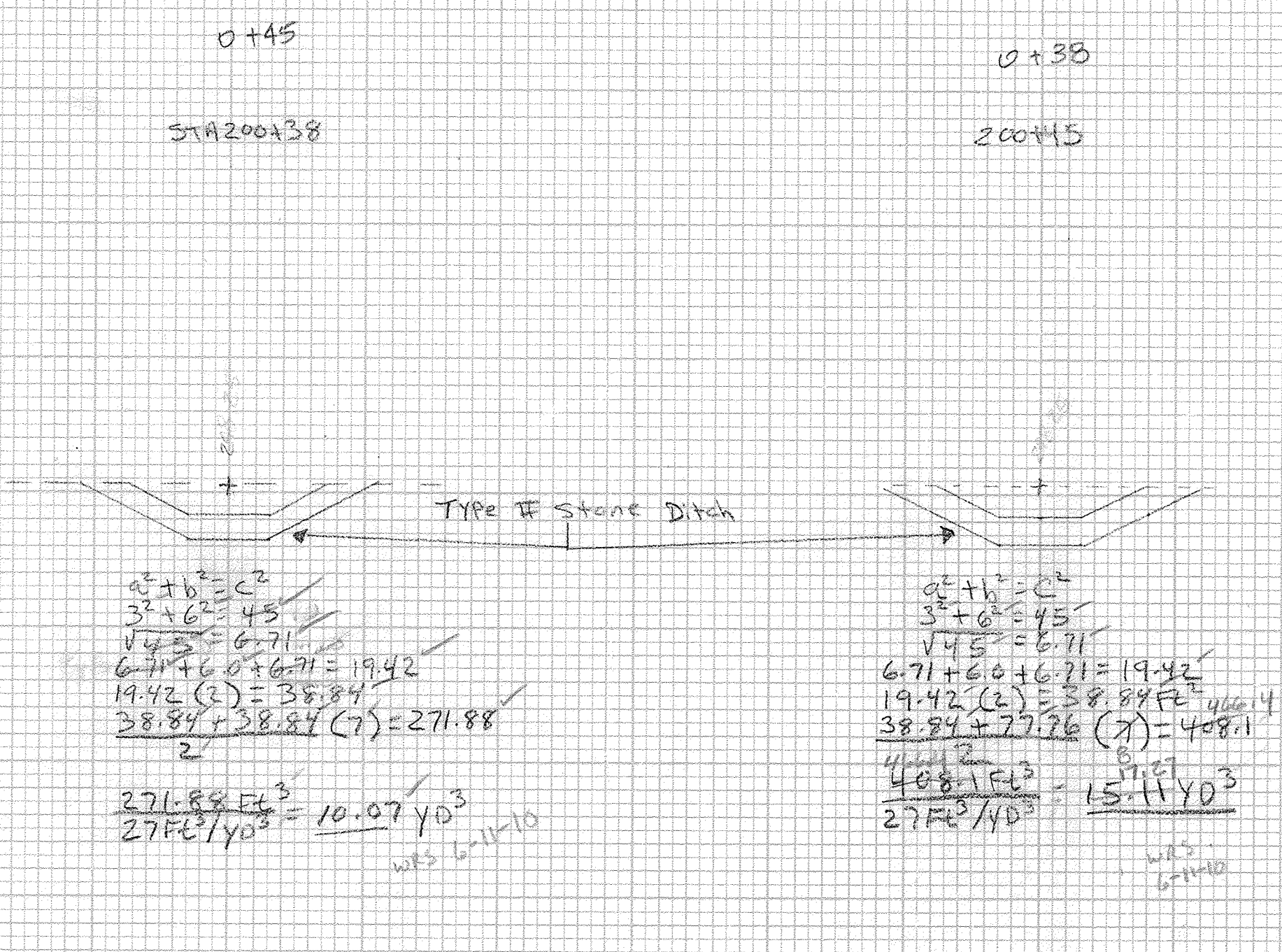
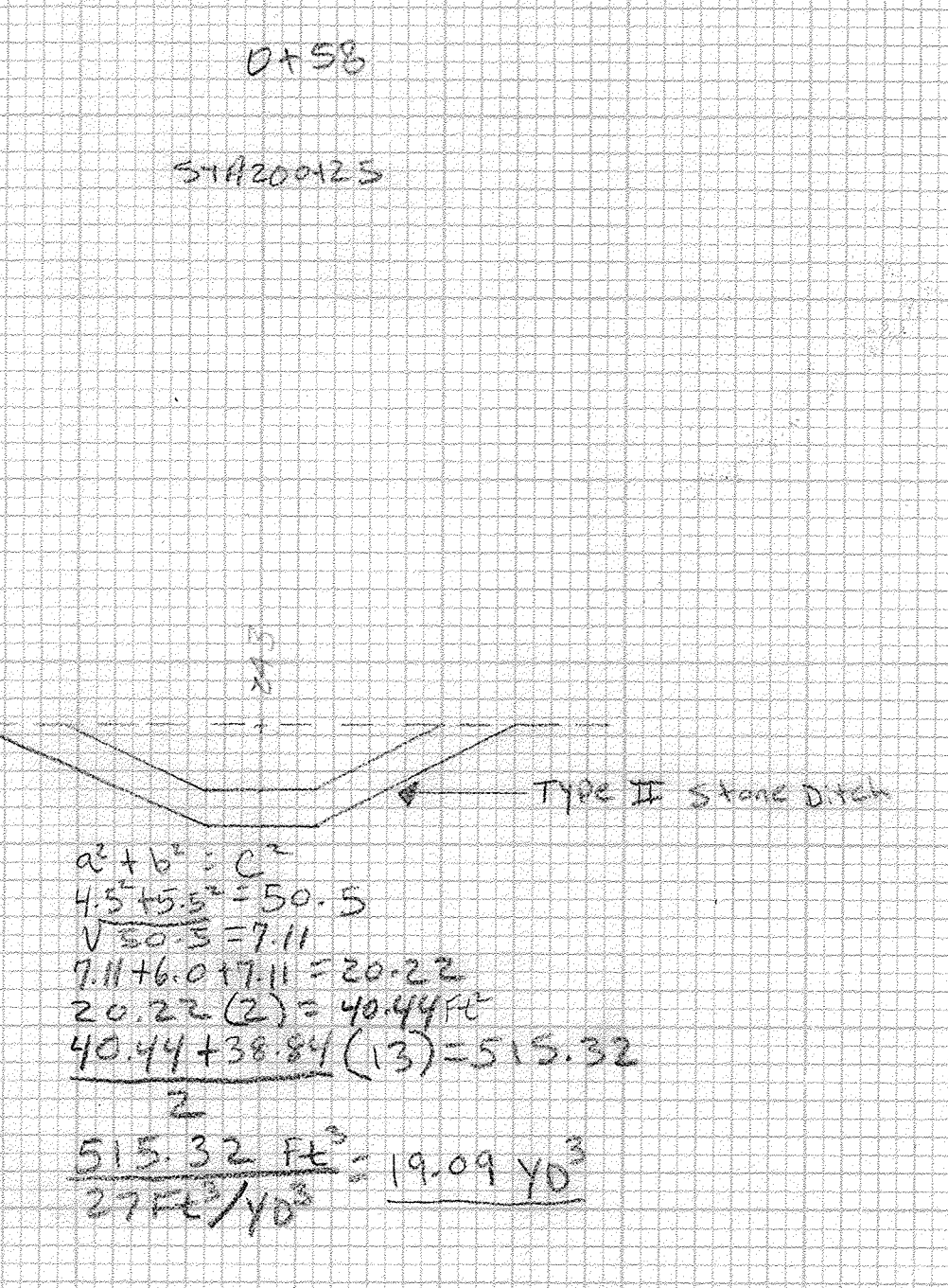
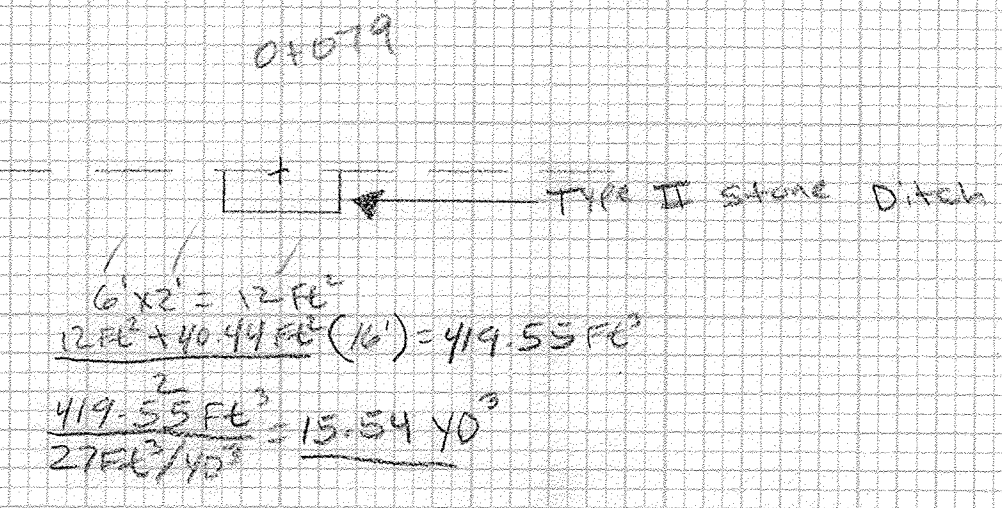
STA 200+09

Stone Fill, Type II

$63.75 + 15.11 + 10.07 + 19.09 + 15.54 = 123.56$ Calc By RPD

NEW HEADWALL STA 0+31 ON SHEET #2
 = DITCH -0.009 SEE LAYOUT DEPARTMENT

200+09 = BUTT?
 200+25
 $\frac{12+52.24}{2} \times 16 = 513.92 \text{ CF}$
 $513.92 \div 27 = 19.03 \text{ CY}$
 WRS 6-11-10



$9^2 + 4.5^2 = 101.25$
 $\sqrt{101.25} = 10.06$
 $10.06 + 6 + 10.06 = 26.12$
 $26.12 \times 2 = 52.24 \text{ FT}^2$
 $\frac{52.24 + 38.84}{2} \times 13 = 592.02 \text{ FT}^3$
 $\frac{592.02}{27} = 21.93 \text{ CY}$
 WRS 6-11-10

$a^2 + b^2 = c^2$
 $4.5^2 + 5.5^2 = 50.5$
 $\sqrt{50.5} = 7.11$
 $7.11 + 6.0 + 7.11 = 20.22$
 $20.22(2) = 40.44 \text{ FT}$
 $\frac{40.44 + 38.84(13)}{2} = 515.32$
 $\frac{515.32 \text{ FT}^3}{27 \text{ Fe}^3/\text{YD}^3} = 19.09 \text{ YD}^3$
 WRS 6-11-10

$a^2 + b^2 = c^2$
 $3^2 + 6^2 = 45$
 $\sqrt{45} = 6.71$
 $6.71 + 6.0 + 6.71 = 19.42$
 $19.42(2) = 38.84$
 $\frac{38.84 + 38.84(7)}{2} = 271.88$
 $\frac{271.88 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 10.07 \text{ YD}^3$
 WRS 6-11-10

$a^2 + b^2 = c^2$
 $7.75^2 + 14.5^2 = 270.31$
 $\sqrt{270.31} = 16.44$
 $16.44 + 6.00 + 16.44 = 38.88$
 $38.88(2) = 77.76 \text{ FT}^2$
 $\frac{77.76 \text{ Fe}^3 + 65.68 \text{ Fe}^3(24)}{2} = 1721.28 \text{ Fe}^3$
 $\frac{1721.28 \text{ Fe}^3}{27 \text{ Fe}^3/\text{YD}^3} = 63.75 \text{ YD}^3$
 WRS 6-11-10

ORIGINAL SURVEY	DATE

FINAL SURVEY	DATE