FINAL SURVEY
NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY
NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

204.30 Gr. Backfill Pipe ((76' * 3.8' * 2.5') - (π1.5²/4 * 76'))/27 = 21.8 cy
D.I. ((π6²/4 * 5.0') - (π4²/4 * 5.0'))/27 = 2.9 cy
Total = 24.7 cy JJR 6/10/03
M.W.H. 3/15/04
1/3.5
1511.00
1509.00
10 x 10 x 1/27 = 3.7 C.Y.
← Type I stone fill 3.7 cy (M.F) 6/10/03 JJR
3/16/04 M.W.H.
D.I Trench Excavation π6²/4 * 5.0' = 5.2 cy
Trench Rock - 0 cy
Trench Earth = 5.2 cy
6/10/03 JJR
3/15/04 M.W.H.
276+22
New 18" X 76' CPEP(SL)
w/RCDI & grate type B
see Drainage Book 28 pg 94
see Item Detail and Dr. Sh. #2 of 3
* 5 scale 710/4 = 177.5
Pipe Trench Excavation 177.5 * 3.8' * 1/27 = 25.0 cy 6/10/03 JJR
Trench Rock - 0.0 cy 3/15/04 M.W.H.
Trench Earth = 25.0 cy
Trench Earth DI = 5.2 C.Y.
30.2 C.Y. Total Trench Earth
1509.0
D.I. Trench Excavation = π6²/4 * 4.5' = 4.7 cy 6/18/03 JJR
3/16/04 M.W.H.
Tr. Rock = 0 cy
Tr Earth = 4.7 cy 6/19/03 JJR
3/16/04 M.W.H.
* 5 scale
Pipe Trench Excavation 1275/4 * 3.8' * 1/27 = 44.9 cy 6/18/03 JJR
Trench Rock (M.F) 9.5' x 3.5' x 3.8' = -4.7 C.Y.
Trench Earth = 40.2 C.Y 6/19/03 JJR
Add DI Tr. Earth = +4.7 C.Y. 3/16/04 M.W.H.
44.9 C.Y.
1506.1
Type I stone fill 10 * 10 * 1/27 = 3.7 cy (M.F.)
6/19/03 JJR
3/16/04 M.W.H.
278+50
New 18" x 92' CPEP(SL)
w/ RCDI, Type B grate
see Dr. Bk 28 pg 96
see Item Detail and Dr. Sh. #2 of 3
204.30 Gr. Backfill for Structures Pipe ((90' * 3.8' * 2.5') - (π1.5²/4 * 90'))/27 = 25.8 cy
D.I. ((π6²/4 * 4.5') - (π4²/4 * 4.5'))/27 = 2.6 cy
Total = 28.4 cy 6/19/03
3/16/04 M.W.H.
-0.024
Item 204.21 Tr. Earth - Headwall
3.5' x 2' x 9' = 2.3 c.y. M.W.H.
3/16/04
B.B 4-8-04
602.15
CRM Headwall 1.4 cy JJR 10/8/03
1502.80
Scale 5 = 1'
<5' Trench Excavation 36" Pipe (1643/4) * 5.4' * 1/27 = 82.2 c.y.
>5' Depth " " (305/4) x 1.5 x 5.4 x 1/27 = 22.9 c.y.
Headwall Exc. 2.3 + 2.3 = 4.6 c.y.
109.7 c.y. B.B 4-8-04
Sand Borrow = (20' * 4.0 * 5.4)/27 = 16.0 cy JJR 9/28/03 M.W.H. 3/15/04
204.30 Gr. Backfill for Structures - ((70' * 4.0 * 5.4) - (π3²/4 * 70'))/27 = 37.7 cy JJR 10/8/03
M.W.H. 3/15/04
>5' Depth
first 20 back filled w/ sand borrow
285+00
New 36" CPEP X 100' L.F.
see bk 7, pg 48
see Dr. Bk 28 pg 108
see Item Detail and Dr. Sh. #2 of 3
1497.80
Tr. Earth
602.15
CRM Headwall 1.4 cy
204.20 Headwall exc. = 3.5' x 2' x 9'W = 2.3 C.Y. T.E.
M.W.H. 3/16/04
paid 60 LF Item 601.0930 9/9/02 B.B 4-8-04
headwall and SF
613.11
SF Type II 10' x 6' x 2'/27 = 4.4 cy
MIF by CWG
M.W.H. 3/16/04
Searsburg - Wilmington
Drainage sheet 22 of 27
New 36" 285+00
New 18" 278+50
Remove & New 18" 276+22
SEARSBURG - WILMINGTON
NH-F010-1(18)

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
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