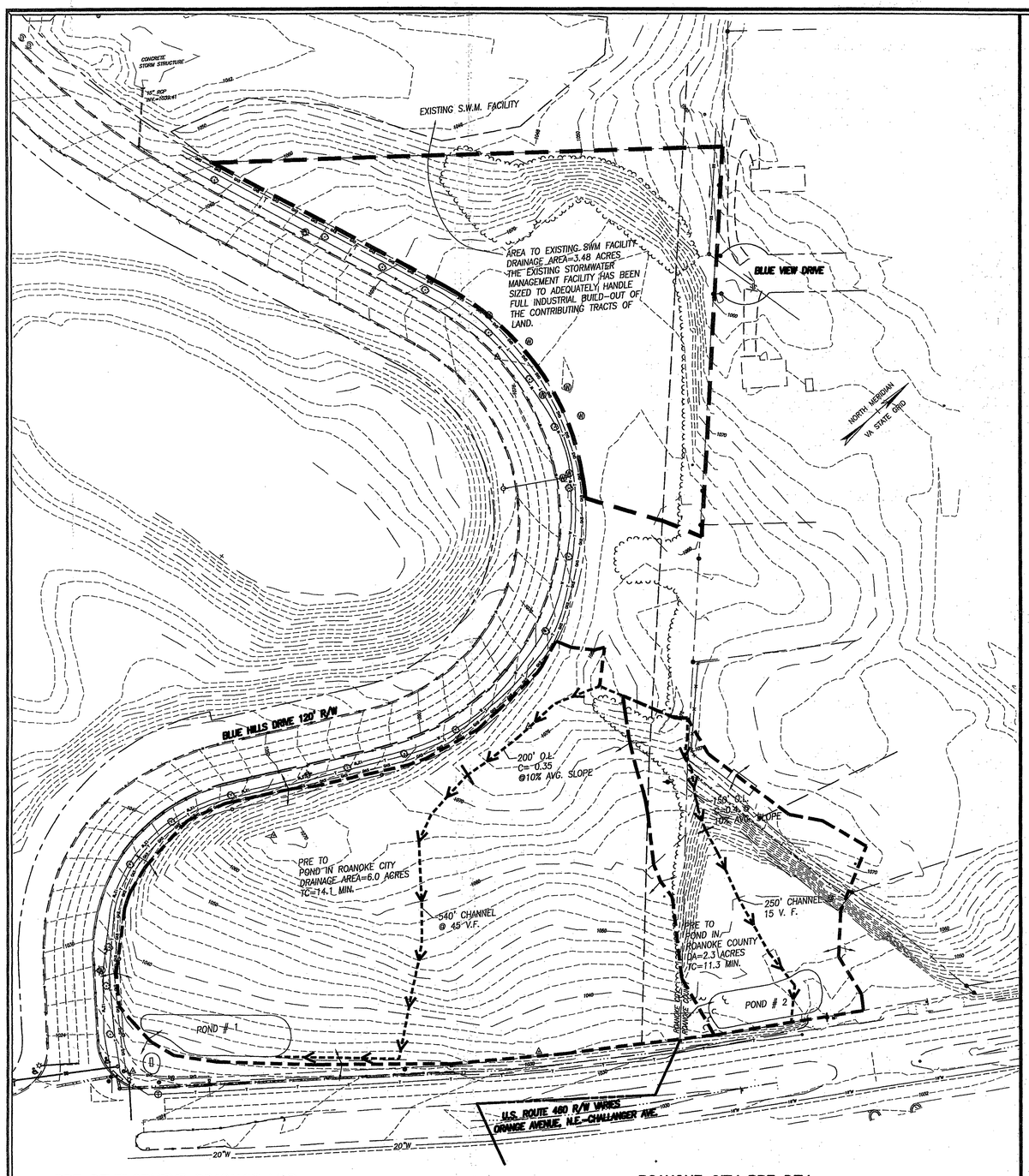
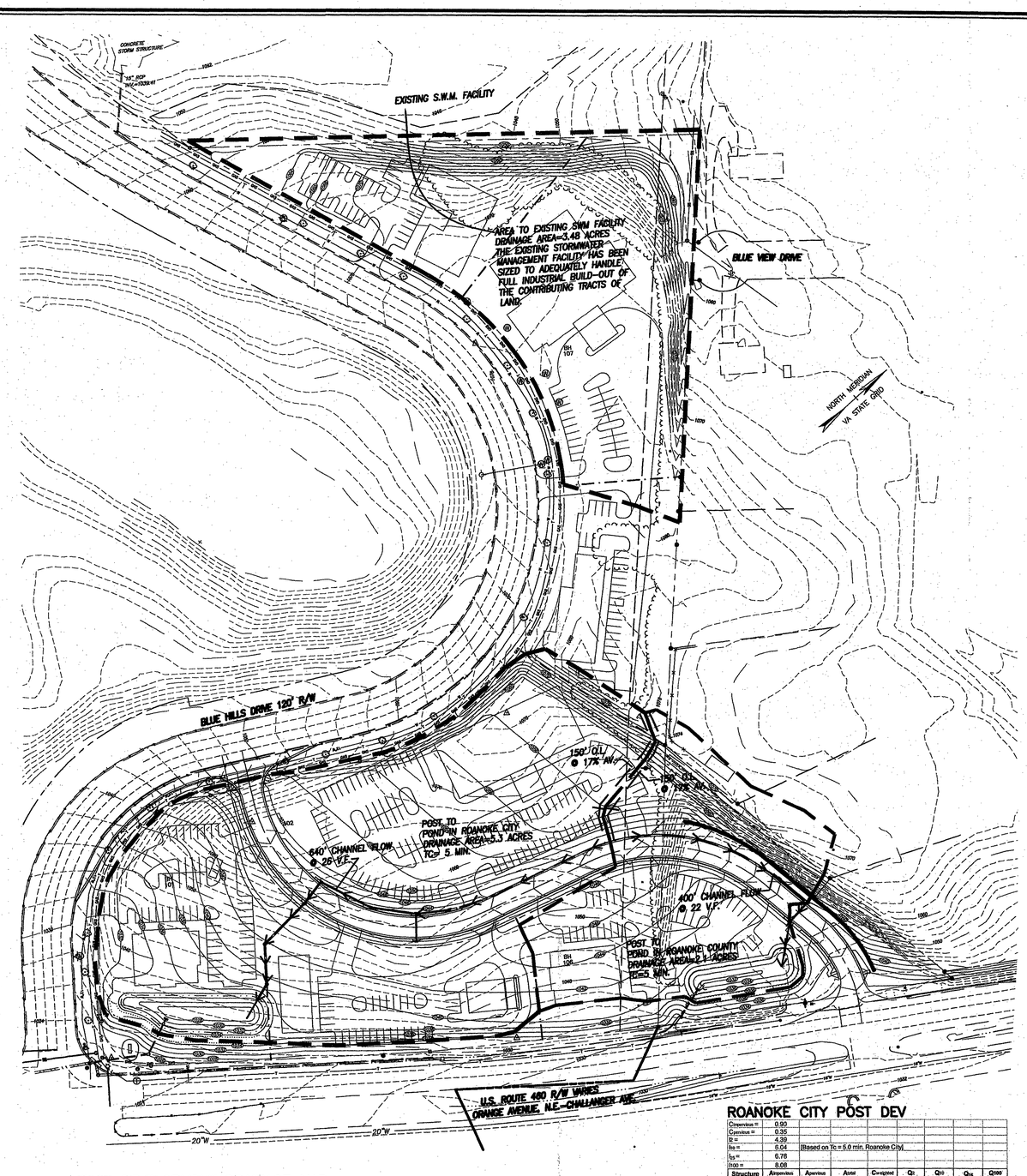



## PRE DEVELOPMENT DRAINAGE MAP

SCALE: 1"=80'




## POST DEVELOPMENT DRAINAGE MAP

SCALE: 1"=80'

### ROANOKE CITY PRE DEV.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $C_{impervious}$ = | 0.90 | | | | | | | |
| $C_{pervious}$ = | 0.35 | | | | | | | |
| $t_2$ = | 3.03 | | | | | | | |
| $t_{10}$ = | 4.29 | [Based on Tc = 14.1 min. Roanoke City] | | | | | | |
| $t_{25}$ = | 4.87 | | | | | | | |
| $t_{100}$ = | 5.70 | | | | | | | |
| **Structure** | $A_{impervious}$ | $A_{pervious}$ | $A_{total}$ | $C_{weighted}$ | $Q_2$ | $Q_{10}$ | $Q_{25}$ | $Q_{100}$ |
| Pre City | 0.00 | 6.00 | 6.00 | 0.35 | 6.36 | 9.01 | 10.23 | 11.97 |

### ROANOKE COUNTY PRE DEV.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $C_{impervious}$ = | 0.90 | | | | | | | |
| $C_{pervious}$ = | 0.35 | | | | | | | |
| $t_2$ = | 3.34 | | | | | | | |
| $t_{10}$ = | 4.69 | [Based on Tc = 11.3 min. Roanoke County] | | | | | | |
| $t_{25}$ = | 5.26 | | | | | | | |
| $t_{100}$ = | 6.21 | | | | | | | |
| **Structure** | $A_{impervious}$ | $A_{pervious}$ | $A_{total}$ | $C_{weighted}$ | $Q_2$ | $Q_{10}$ | $Q_{25}$ | $Q_{100}$ |
| Pre County | 0.15 | 2.15 | 2.30 | 0.39 | 3.00 | 4.21 | 4.72 | 5.57 |

### ROANOKE CITY POST DEV

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $C_{impervious}$ = | 0.90 | | | | | | | |
| $C_{pervious}$ = | 0.35 | | | | | | | |
| $t_2$ = | 4.39 | | | | | | | |
| $t_{10}$ = | 5.04 | [Based on Tc = 5.0 min. Roanoke City] | | | | | | |
| $t_{25}$ = | 6.76 | | | | | | | |
| $t_{100}$ = | 8.08 | | | | | | | |
| **Structure** | $A_{impervious}$ | $A_{pervious}$ | $A_{total}$ | $C_{weighted}$ | $Q_2$ | $Q_{10}$ | $Q_{25}$ | $Q_{100}$ |
| Post City | 3.80 | 1.50 | 5.30 | 0.74 | 17.22 | 23.69 | 28.59 | 31.69 |

### ROANOKE COUNTY POST DEV.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $C_{impervious}$ = | 0.90 | | | | | | | |
| $C_{pervious}$ = | 0.35 | | | | | | | |
| $t_2$ = | 4.39 | | | | | | | |
| $t_{10}$ = | 5.04 | [Based on Tc = 5.0 min. Roanoke County] | | | | | | |
| $t_{25}$ = | 6.78 | | | | | | | |
| $t_{100}$ = | 8.08 | | | | | | | |
| **Structure** | $A_{impervious}$ | $A_{pervious}$ | $A_{total}$ | $C_{weighted}$ | $Q_2$ | $Q_{10}$ | $Q_{25}$ | $Q_{100}$ |
| Post County | 1.40 | 0.70 | 2.10 | 0.72 | 6.64 | 9.13 | 10.25 | 12.22 |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COMMONWEALTH OF VIRGINIA
JACK DURRELL ELLINWOOD
No. 001107
LANDSCAPE ARCHITECT

| No. | Revision | By | Appd | Date |
|---|---|---|---|---|
| 1 | CITY, COUNTY & VDOT NOV. COMMENTS | DRB | JDE | 03/22/07 |
| 2 | CITY, COUNTY & VDOT APRIL COMMENTS | DRB | JDE | 05/24/07 |
| 3 | CITY COMMENTS, 7/9/07 | DRB | JDE | 07/12/07 |

Drawn DRB
Designed JDE
Checked JDE
Approved JDE

# BLUE HILLS VILLAGE
## PRE / POST DRAINAGE MAP
BLUE HILLS DRIVE & U.S. ROUTE 460
ROANOKE, VIRGINIA

SCALE: 1"=80'
OCT. 20, 2007
PROJECT: 06067