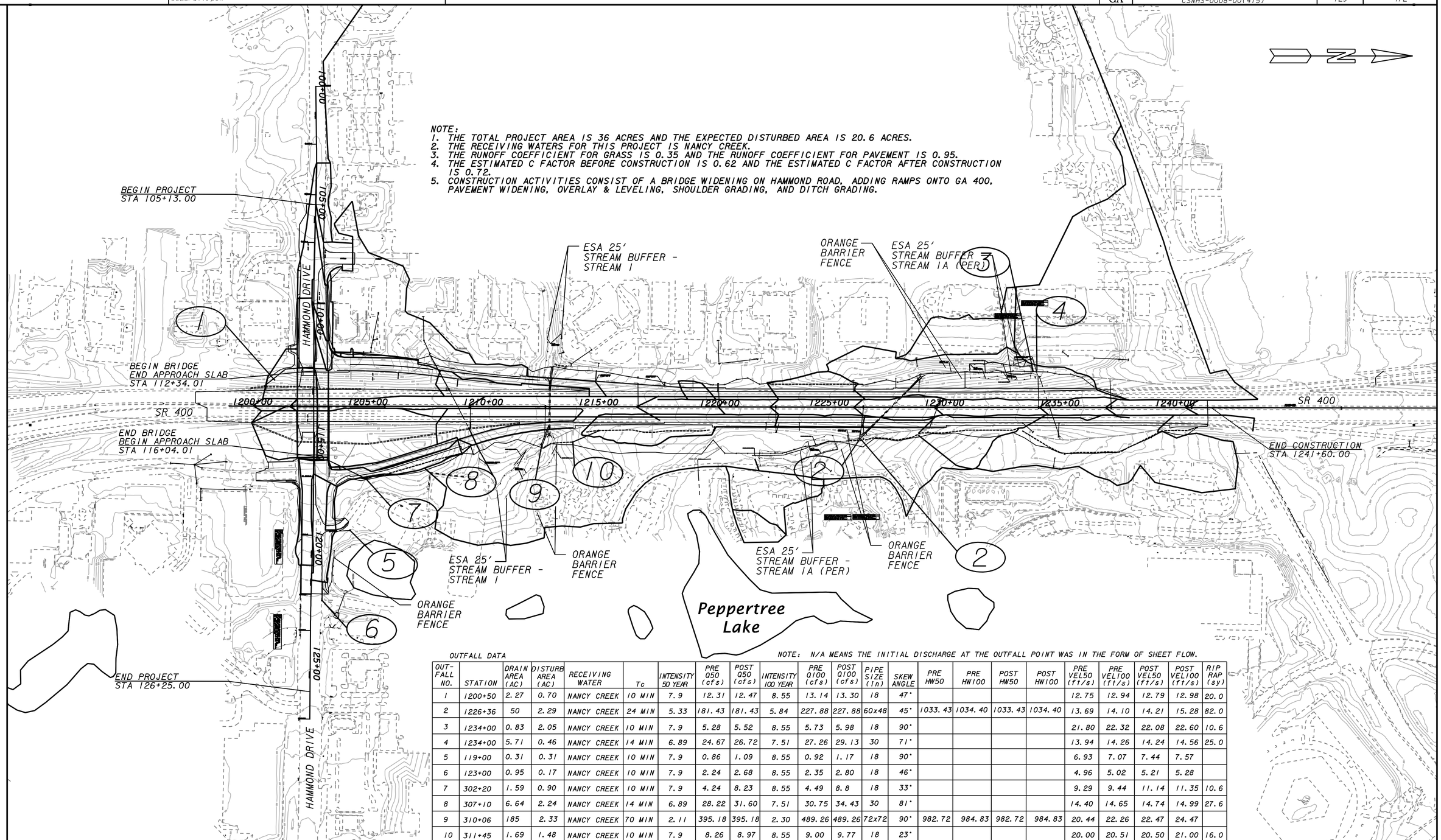
RELEASED FOR CONSTRUCTION 11/04/09

NOTE:
1. THE TOTAL PROJECT AREA IS 36 ACRES AND THE EXPECTED DISTURBED AREA IS 20.6 ACRES.
2. THE RECEIVING WATERS FOR THIS PROJECT IS NANCY CREEK.
3. THE RUNOFF COEFFICIENT FOR GRASS IS 0.35 AND THE RUNOFF COEFFICIENT FOR PAVEMENT IS 0.95.
4. THE ESTIMATED C FACTOR BEFORE CONSTRUCTION IS 0.62 AND THE ESTIMATED C FACTOR AFTER CONSTRUCTION IS 0.72.
5. CONSTRUCTION ACTIVITIES CONSIST OF A BRIDGE WIDENING ON HAMMOND ROAD, ADDING RAMPS ONTO GA 400, PAVEMENT WIDENING, OVERLAY & LEVELING, SHOULDER GRADING, AND DITCH GRADING.




OUTFALL DATA

NOTE: N/A MEANS THE INITIAL DISCHARGE AT THE OUTFALL POINT WAS IN THE FORM OF SHEET FLOW.

| OUT-FALL NO. | STATION | DRAIN AREA (AC) | DISTURB AREA (AC) | RECEIVING WATER | Tc | INTENSITY 50 YEAR | PRE Q50 (cfs) | POST Q50 (cfs) | INTENSITY 100 YEAR | PRE Q100 (cfs) | POST Q100 (cfs) | PIPE SIZE (in) | SKEW ANGLE | PRE HW50 | PRE HW100 | POST HW50 | POST HW100 | PRE VEL50 (ft/s) | PRE VEL100 (ft/s) | POST VEL50 (ft/s) | POST VEL100 (ft/s) | RIP RAP (sy) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1200+50 | 2.27 | 0.70 | NANCY CREEK | 10 MIN | 7.9 | 12.31 | 12.47 | 8.55 | 13.14 | 13.30 | 18 | 47° | | | | | 12.75 | 12.94 | 12.79 | 12.98 | 20.0 |
| 2 | 1226+36 | 50 | 2.29 | NANCY CREEK | 24 MIN | 5.33 | 181.43 | 181.43 | 5.84 | 227.88 | 227.88 | 60x48 | 45° | 1033.43 | 1034.40 | 1033.43 | 1034.40 | 13.69 | 14.10 | 14.21 | 15.28 | 82.0 |
| 3 | 1234+00 | 0.83 | 2.05 | NANCY CREEK | 10 MIN | 7.9 | 5.28 | 5.52 | 8.55 | 5.73 | 5.98 | 18 | 90° | | | | | 21.80 | 22.32 | 22.08 | 22.60 | 10.6 |
| 4 | 1234+00 | 5.71 | 0.46 | NANCY CREEK | 14 MIN | 6.89 | 24.67 | 26.72 | 7.51 | 27.26 | 29.13 | 30 | 71° | | | | | 13.94 | 14.26 | 14.24 | 14.56 | 25.0 |
| 5 | 119+00 | 0.31 | 0.31 | NANCY CREEK | 10 MIN | 7.9 | 0.86 | 1.09 | 8.55 | 0.92 | 1.17 | 18 | 90° | | | | | 6.93 | 7.07 | 7.44 | 7.57 | |
| 6 | 123+00 | 0.95 | 0.17 | NANCY CREEK | 10 MIN | 7.9 | 2.24 | 2.68 | 8.55 | 2.35 | 2.80 | 18 | 46° | | | | | 4.96 | 5.02 | 5.21 | 5.28 | |
| 7 | 302+20 | 1.59 | 0.90 | NANCY CREEK | 10 MIN | 7.9 | 4.24 | 8.23 | 8.55 | 4.49 | 8.8 | 18 | 33° | | | | | 9.29 | 9.44 | 11.14 | 11.35 | 10.6 |
| 8 | 307+10 | 6.64 | 2.24 | NANCY CREEK | 14 MIN | 6.89 | 28.22 | 31.60 | 7.51 | 30.75 | 34.43 | 30 | 81° | | | | | 14.40 | 14.65 | 14.74 | 14.99 | 27.6 |
| 9 | 310+06 | 185 | 2.33 | NANCY CREEK | 70 MIN | 2.11 | 395.18 | 395.18 | 2.30 | 489.26 | 489.26 | 72x72 | 90° | 982.72 | 984.83 | 982.72 | 984.83 | 20.44 | 22.26 | 22.47 | 24.47 | |
| 10 | 311+45 | 1.69 | 1.48 | NANCY CREEK | 10 MIN | 7.9 | 8.26 | 8.97 | 8.55 | 9.00 | 9.77 | 18 | 23° | | | | | 20.00 | 20.51 | 20.50 | 21.00 | 16.0 |

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

# DRAINAGE AREA MAP

DRAWING No. 21-01