

NOTES:
1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2) SEE SHEET 3 OF 8 FOR TYPICAL SECTION GRAY ROCK DRIVE.

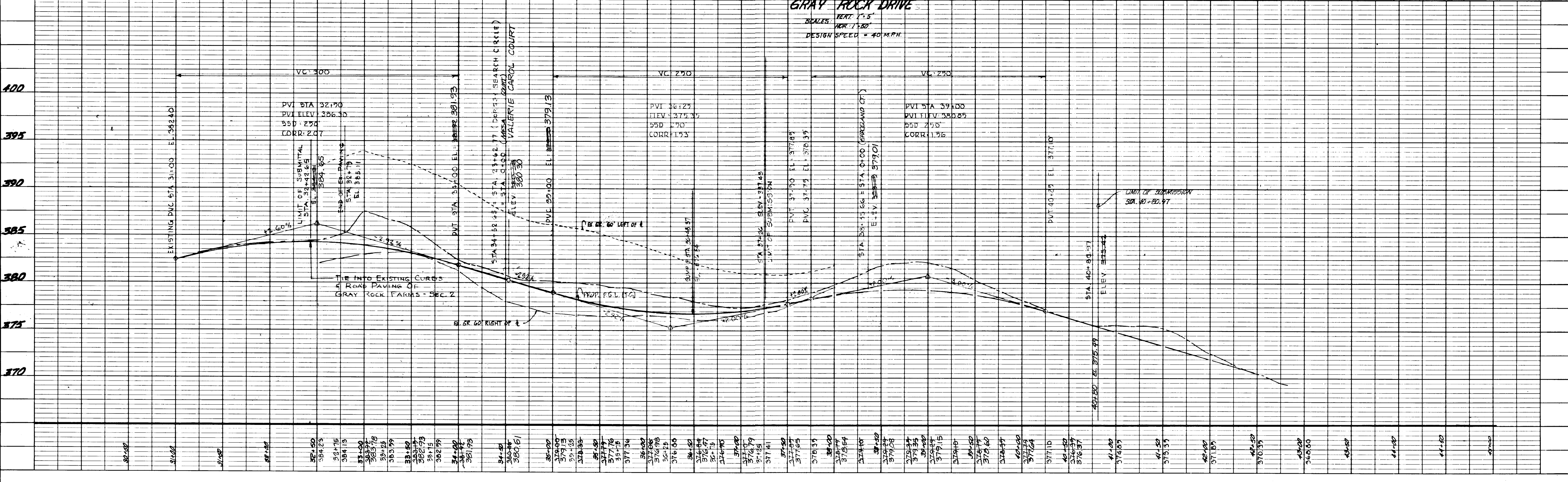
APPROVED: DEPARTMENT OF PUBLIC WORKS
DATE: 12-25-86
CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING
DATE: 12-26-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

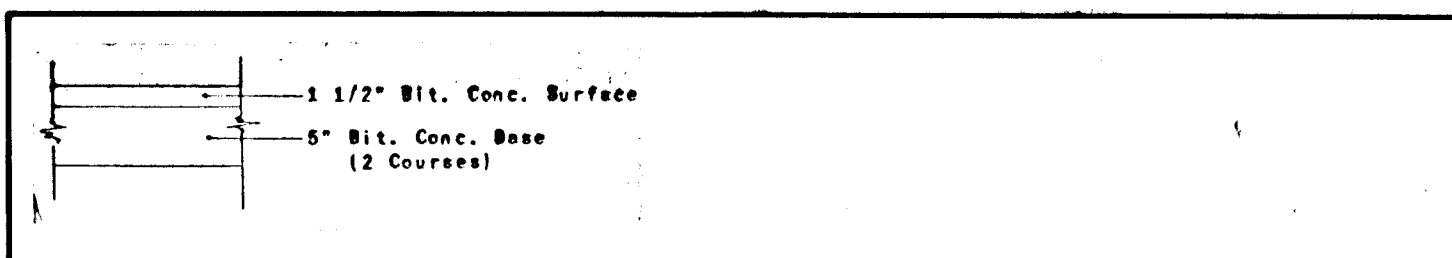
OWNER
THE MILLER LAND COMPANY
9035 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MD 21045

AS-BUILT SURVEY CERTIFIED
BY LUTHER E. BATHURST, MD, P.E.
No. 11393

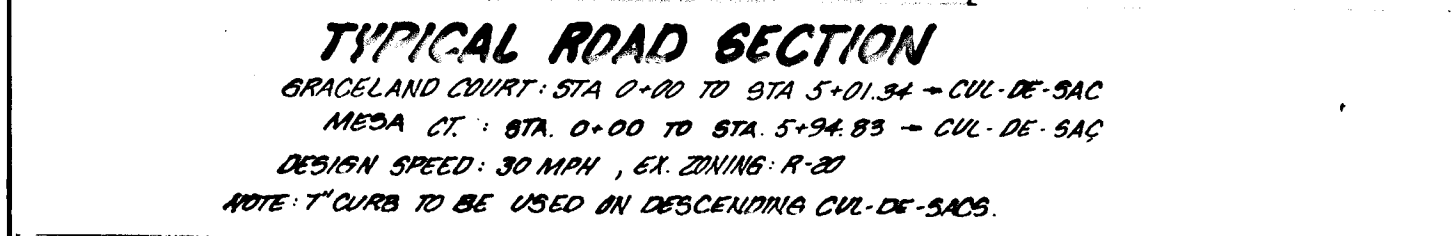
TITLE GRAY ROCK DRIVE - STA. 32+42.65 TO STA. 40+87.97			
PROJECT GRAY ROCK FARMS, SECTION 3			
LOCATION 2ND ELECTION DISTRICT		HOWARD CO., MD	
DATE: OCT 1985	DESIGN BY: W.N.	DRAWN BY: J.T.N.	CHECKED BY:
SCALE: AS NOTED	JOB NO.: 85226	DRAWING NO.: 2 OF 10	
boender associates 3605 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21045 BALTIMORE 301-465-7777			engineers surveyors planners



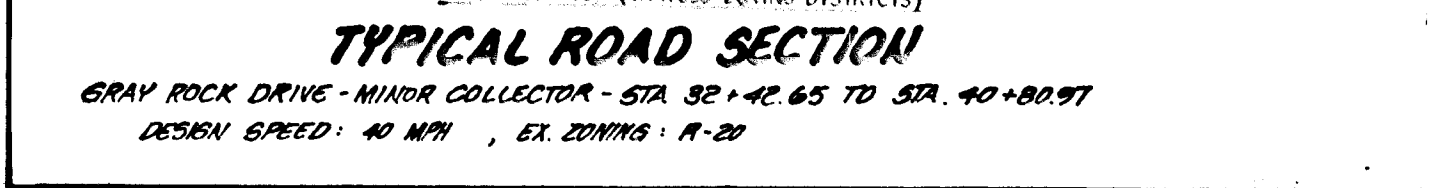
242



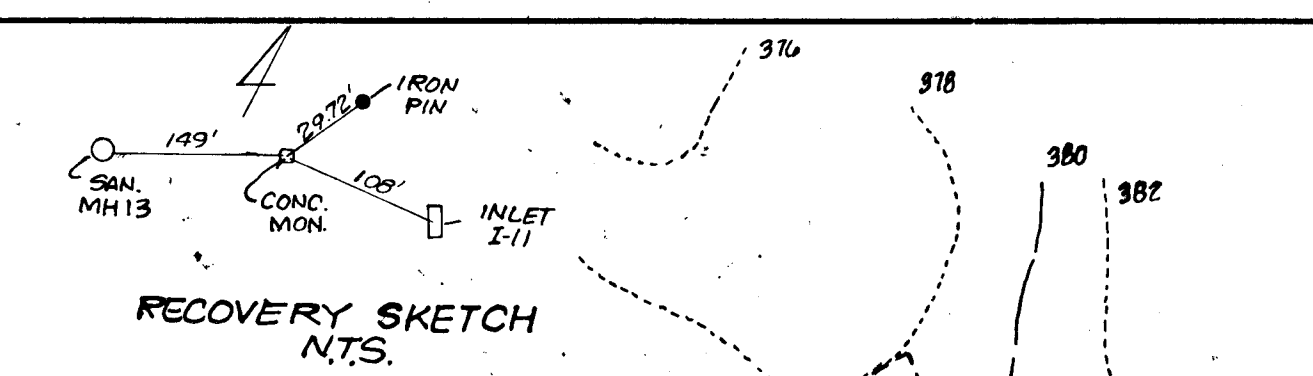
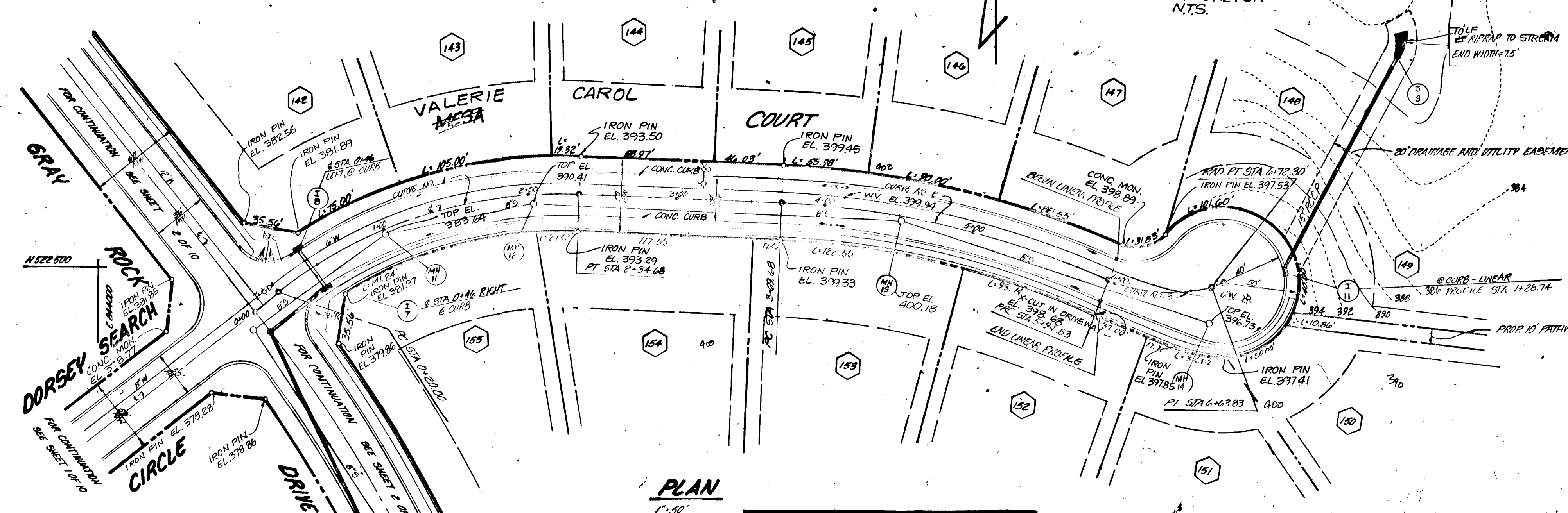
ZONING DISTRICTS	A	B	C	D	R/W	PAVING SECTION
RES-1, B-2A, B-2B, B-2C, B-2D, B-2E, B-2F, B-2G, B-2H, B-2I, B-2J, B-2K, B-2L, B-2M, B-2N, B-2O, B-2P, B-2Q, B-2R, B-2S, B-2T, B-2U, B-2V, B-2W, B-2X, B-2Y, B-2Z, B-2AA, B-2AB, B-2AC, B-2AD, B-2AE, B-2AF, B-2AG, B-2AH, B-2AI, B-2AJ, B-2AK, B-2AL, B-2AM, B-2AN, B-2AO, B-2AP, B-2AQ, B-2AR, B-2AS, B-2AT, B-2AU, B-2AV, B-2AW, B-2AX, B-2AY, B-2AZ, B-2BA, B-2BB, B-2BC, B-2BD, B-2BE, B-2BF, B-2BG, B-2BH, B-2BI, B-2BJ, B-2BK, B-2BL, B-2BM, B-2BN, B-2BO, B-2BP, B-2BQ, B-2BR, B-2BS, B-2BT, B-2BU, B-2BV, B-2BW, B-2BX, B-2BY, B-2BZ, B-2CA, B-2CB, B-2CC, B-2CD, B-2CE, B-2CF, B-2CG, B-2CH, B-2CI, B-2CJ, B-2CK, B-2CL, B-2CM, B-2CN, B-2CO, B-2CP, B-2CQ, B-2CR, B-2CS, B-2CT, B-2CU, B-2CV, B-2CW, B-2CX, B-2CY, B-2CZ, B-2DA, B-2DB, B-2DC, B-2DD, B-2DE, B-2DF, B-2DG, B-2DH, B-2DI, B-2DJ, B-2DK, B-2DL, B-2DM, B-2DN, B-2DO, B-2DP, B-2DQ, B-2DR, B-2DS, B-2DT, B-2DU, B-2DV, B-2DW, B-2DX, B-2DY, B-2DZ, B-2EA, B-2EB, B-2EC, B-2ED, B-2EE, B-2EF, B-2EG, B-2EH, B-2EI, B-2EJ, B-2EK, B-2EL, B-2EM, B-2EN, B-2EO, B-2EP, B-2EQ, B-2ER, B-2ES, B-2ET, B-2EU, B-2EV, B-2EW, B-2EX, B-2EY, B-2EZ, B-2FA, B-2FB, B-2FC, B-2FD, B-2FE, B-2FF, B-2FG, B-2FH, B-2FI, B-2FJ, B-2FK, B-2FL, B-2FM, B-2FN, B-2FO, B-2FP, B-2FQ, B-2FR, B-2FS, B-2FT, B-2FU, B-2FV, B-2FW, B-2FX, B-2FY, B-2FZ, B-2GA, B-2GB, B-2GC, B-2GD, B-2GE, B-2GF, B-2GG, B-2GH, B-2GI, B-2GJ, B-2GK, B-2GL, B-2GM, B-2GN, B-2GO, B-2GP, B-2GQ, B-2GR, B-2GS, B-2GT, B-2GU, B-2GV, B-2GW, B-2GX, B-2GY, B-2GZ, B-2HA, B-2HB, B-2HC, B-2HD, B-2HE, B-2HF, B-2HG, B-2HH, B-2HI, B-2HJ, B-2HK, B-2HL, B-2HM, B-2HN, B-2HO, B-2HP, B-2HQ, B-2HR, B-2HS, B-2HT, B-2HU, B-2HV, B-2HW, B-2HX, B-2HY, B-2HZ, B-2IA, B-2IB, B-2IC, B-2ID, B-2IE, B-2IF, B-2IG, B-2IH, B-2II, B-2IJ, B-2IK, B-2IL, B-2IM, B-2IN, B-2IO, B-2IP, B-2IQ, B-2IR, B-2IS, B-2IT, B-2IU, B-2IV, B-2IW, B-2IX, B-2IY, B-2IZ, B-2JA, B-2JB, B-2JC, B-2JD, B-2JE, B-2JF, B-2JG, B-2JH, B-2JI, B-2JJ, B-2JK, B-2JL, B-2JM, B-2JN, B-2JO, B-2JP, B-2JQ, B-2JR, B-2JS, B-2JT, B-2JU, B-2JV, B-2JW, B-2JX, B-2JY, B-2JZ, B-2KA, B-2KB, B-2KC, B-2KD, B-2KE, B-2KF, B-2KG, B-2KH, B-2KI, B-2KJ, B-2KK, B-2KL, B-2KM, B-2KN, B-2KO, B-2KP, B-2KQ, B-2KR, B-2KS, B-2KT, B-2KU, B-2KV, B-2KW, B-2KX, B-2KY, B-2KZ, B-2LA, B-2LB, B-2LC, B-2LD, B-2LE, B-2LF, B-2LG, B-2LH, B-2LI, B-2LJ, B-2LK, B-2LL, B-2LM, B-2LN, B-2LO, B-2LP, B-2LQ, B-2LR, B-2LS, B-2LT, B-2LU, B-2LV, B-2LW, B-2LX, B-2LY, B-2LZ, B-2MA, B-2MB, B-2MC, B-2MD, B-2ME, B-2MF, B-2MG, B-2MH, B-2MI, B-2MJ, B-2MK, B-2ML, B-2MM, B-2MN, B-2MO, B-2MP, B-2MQ, B-2MR, B-2MS, B-2MT, B-2MU, B-2MV, B-2MW, B-2MX, B-2MY, B-2MZ, B-2NA, B-2NB, B-2NC, B-2ND, B-2NE, B-2NF, B-2NG, B-2NH, B-2NI, B-2NJ, B-2NK, B-2NL, B-2NM, B-2NN, B-2NO, B-2NP, B-2NQ, B-2NR, B-2NS, B-2NT, B-2NU, B-2NV, B-2NW, B-2NX, B-2NY, B-2NZ, B-2OA, B-2OB, B-2OC, B-2OD, B-2OE, B-2OF, B-2OG, B-2OH, B-2OI, B-2OJ, B-2OK, B-2OL, B-2OM, B-2ON, B-2OO, B-2OP, B-2OQ, B-2OR, B-2OS, B-2OT, B-2OU, B-2OV, B-2OW, B-2OX, B-2OY, B-2OZ, B-2PA, B-2PB, B-2PC, B-2PD, B-2PE, B-2PF, B-2PG, B-2PH, B-2PI, B-2PJ, B-2PK, B-2PL, B-2PM, B-2PN, B-2PO, B-2PP, B-2PQ, B-2PR, B-2PS, B-2PT, B-2PU, B-2PV, B-2PW, B-2PX, B-2PY, B-2PZ, B-2QA, B-2QB, B-2QC, B-2QD, B-2QE, B-2QF, B-2QG, B-2QH, B-2QI, B-2QJ, B-2QK, B-2QL, B-2QM, B-2QN, B-2QO, B-2QP, B-2QQ, B-2QR, B-2QS, B-2QT, B-2QU, B-2QV, B-2QW, B-2QX, B-2QY, B-2QZ, B-2RA, B-2RB, B-2RC, B-2RD, B-2RE, B-2RF, B-2RG, B-2RH, B-2RI, B-2RJ, B-2RK, B-2RL, B-2RM, B-2RN, B-2RO, B-2RP, B-2RQ, B-2RR, B-2RS, B-2RT, B-2RU, B-2RV, B-2RW, B-2RX, B-2RY, B-2RZ, B-2SA, B-2SB, B-2SC, B-2SD, B-2SE, B-2SF, B-2SG, B-2SH, B-2SI, B-2SJ, B-2SK, B-2SL, B-2SM, B-2SN, B-2SO, B-2SP, B-2SQ, B-2SR, B-2SS, B-2ST, B-2SU, B-2SV, B-2SW, B-2SX, B-2SY, B-2SZ, B-2TA, B-2TB, B-2TC, B-2TD, B-2TE, B-2TF, B-2TG, B-2TH, B-2TI, B-2TJ, B-2TK, B-2TL, B-2TM, B-2TN, B-2TO, B-2TP, B-2TQ, B-2TR, B-2TS, B-2TT, B-2TU, B-2TV, B-2TW, B-2TX, B-2TY, B-2TZ, B-2UA, B-2UB, B-2UC, B-2UD, B-2UE, B-2UF, B-2UG, B-2UH, B-2UI, B-2UJ, B-2UK, B-2UL, B-2UM, B-2UN, B-2UO, B-2UP, B-2UQ, B-2UR, B-2US, B-2UT, B-2UU, B-2UV, B-2UW, B-2UX, B-2UY, B-2UZ, B-2VA, B-2VB, B-2VC, B-2VD, B-2VE, B-2VF, B-2VG, B-2VH, B-2VI, B-2VJ, B-2VK, B-2VL, B-2VM, B-2VN, B-2VO, B-2VP, B-2VQ, B-2VR, B-2VS, B-2VT, B-2VU, B-2VV, B-2VW, B-2VX, B-2VY, B-2VZ, B-2WA, B-2WB, B-2WC, B-2WD, B-2WE, B-2WF, B-2WG, B-2WH, B-2WI, B-2WJ, B-2WK, B-2WL, B-2WM, B-2WN, B-2WO, B-2WP, B-2WQ, B-2WR, B-2WS, B-2WT, B-2WU, B-2WV, B-2WW, B-2WX, B-2WY, B-2WZ, B-2XA, B-2XB, B-2XC, B-2XD, B-2XE, B-2XF, B-2XG, B-2XH, B-2XI, B-2XJ, B-2XK, B-2XL, B-2XM, B-2XN, B-2XO, B-2XP, B-2XQ, B-2XR, B-2XS, B-2XT, B-2XU, B-2XV, B-2XW, B-2XX, B-2XY, B-2XZ, B-2YA, B-2YB, B-2YC, B-2YD, B-2YE, B-2YF, B-2YG, B-2YH, B-2YI, B-2YJ, B-2YK, B-2YL, B-2YM, B-2YN, B-2YO, B-2YP, B-2YQ, B-2YR, B-2YS, B-2YT, B-2YU, B-2YV, B-2YW, B-2YX, B-2YY, B-2YZ, B-2ZA, B-2ZB, B-2ZC, B-2ZD, B-2ZE, B-2ZF, B-2ZG, B-2ZH, B-2ZI, B-2ZJ, B-2ZK, B-2ZL, B-2ZM, B-2ZN, B-2ZO, B-2ZP, B-2ZQ, B-2ZR, B-2ZS, B-2ZT, B-2ZU, B-2ZV, B-2ZW, B-2ZX, B-2ZY, B-2ZZ						



ZONING DISTRICTS	A	B	C	D	R/W	PAVING SECTION
COMMERCIAL & INDUSTRIAL	44'	51'	47'	60'	60'	P-4
R-5C, B-5A, B-5B, B-5C, B-5D, B-5E, B-5F, B-5G, B-5H, B-5I, B-5J, B-5K, B-5L, B-5M, B-5N, B-5O, B-5P, B-5Q, B-5R, B-5S, B-5T, B-5U, B-5V, B-5W, B-5X, B-5Y, B-5Z, B-5AA, B-5AB, B-5AC, B-5AD, B-5AE, B-5AF, B-5AG, B-5AH, B-5AI, B-5AJ, B-5AK, B-5AL, B-5AM, B-5AN, B-5AO, B-5AP, B-5AQ, B-5AR, B-5AS, B-5AT, B-5AU, B-5AV, B-5AW, B-5AX, B-5AY, B-5AZ, B-5BA, B-5BB, B-5BC, B-5BD, B-5BE, B-5BF, B-5BG, B-5BH, B-5BI, B-5BJ, B-5BK, B-5BL, B-5BM, B-5BN, B-5BO, B-5BP, B-5BQ, B-5BR, B-5BS, B-5BT, B-5BU, B-5BV, B-5BW, B-5BX, B-5BY, B-5BZ, B-5CA, B-5CB, B-5CC, B-5CD, B-5CE, B-5CF, B-5CG, B-5CH, B-5CI, B-5CJ, B-5CK, B-5CL, B-5CM, B-5CN, B-5CO, B-5CP, B-5CQ, B-5CR, B-5CS, B-5CT, B-5CU, B-5CV, B-5CW, B-5CX, B-5CY, B-5CZ, B-5DA, B-5DB, B-5DC, B-5DD, B-5DE, B-5DF, B-5DG, B-5DH, B-5DI, B-5DJ, B-5DK, B-5DL, B-5DM, B-5DN, B-5DO, B-5DP, B-5DQ, B-5DR, B-5DS, B-5DT, B-5DU, B-5DV, B-5DW, B-5DX, B-5DY, B-5DZ, B-5EA, B-5EB, B-5EC, B-5ED, B-5EE, B-5EF, B-5EG, B-5EH, B-5EI, B-5EJ, B-5EK, B-5EL, B-5EM, B-5EN, B-5EO, B-5EP, B-5EQ, B-5ER, B-5ES, B-5ET, B-5EU, B-5EV, B-5EW, B-5EX, B-5EY, B-5EZ, B-5FA, B-5FB, B-5FC, B-5FD, B-5FE, B-5FF, B-5FG, B-5FH, B-5FI, B-5FJ, B-5FK, B-5FL, B-5FM, B-5FN, B-5FO, B-5FP, B-5FQ, B-5FR, B-5FS, B-5FT, B-5FU, B-5FV, B-5FW, B-5FX, B-5FY, B-5FZ, B-5GA, B-5GB, B-5GC, B-5GD, B-5GE, B-5GF, B-5GG, B-5GH, B-5GI, B-5GJ, B-5GK, B-5GL, B-5GM, B-5GN, B-5GO, B-5GP, B-5GQ, B-5GR, B-5GS, B-5GT, B-5GU, B-5GV, B-5GW, B-5GX, B-5GY, B-5GZ, B-5HA, B-5HB, B-5HC, B-5HD, B-5HE, B-5HF, B-5HG, B-5HH, B-5HI, B-5HJ, B-5HK, B-5HL, B-5HM, B-5HN, B-5HO, B-5HP, B-5HQ, B-5HR, B-5HS, B-5HT, B-5HU, B-5HV, B-5HW, B-5HX, B-5HY, B-5HZ, B-5IA, B-5IB, B-5IC, B-5ID, B-5IE, B-5IF, B-5IG, B-5IH, B-5IJ, B-5IK, B-5IL, B-5IM, B-5IN, B-5IO, B-5IP, B-5IQ, B-5IR, B-5IS, B-5IT, B-5IU, B-5IV, B-5IW, B-5IX, B-5IY, B-5IZ, B-5JA, B-5JB, B-5JC, B-5JD, B-5JE, B-5JF, B-5JG, B-5JH, B-5JI, B-5JJ, B-5JK, B-5JL, B-5JM, B-5JN, B-5JO, B-5JP, B-5JQ, B-5JR, B-5JS, B-5JT, B-5JU, B-5JV, B-5JW, B-5JX, B-5JY, B-5JZ, B-5KA, B-5KB, B-5KC, B-5KD, B-5KE, B-5KF, B-5KG, B-5KH, B-5KI, B-5KJ, B-5KL, B-5KM, B-5KN, B-5KO, B-5KP, B-5KQ, B-5KR, B-5KS, B-5KT, B-5KU, B-5KV, B-5KW, B-5KX, B-5KY, B-5KZ, B-5LA, B-5LB, B-5LC, B-5LD, B-5LE, B-5LF, B-5LG, B-5LH, B-5LI, B-5LJ, B-5LK, B-5LL, B-5LM, B-5LN, B-5LO, B-5LP, B-5LQ, B-5LR, B-5LS, B-5LT, B-5LU, B-5LV, B-5LW, B-5LX, B-5LY, B-5LZ, B-5MA, B-5MB, B-5MC, B-5MD, B-5ME, B-5MF, B-5MG, B-5MH, B-5MI, B-5MJ, B-5MK, B-5ML, B-5MM, B-5MN, B-5MO, B-5MP, B-5MQ, B-5MR, B-5MS, B-5MT, B-5MU, B-5MV, B-5MW, B-5MX, B-5MY, B-5MZ, B-5NA, B-5NB, B-5NC, B-5ND, B-5NE, B-5NF, B-5NG, B-5NH, B-5NI, B-5NJ, B-5NK, B-5NL, B-5NM, B-5NN, B-5NO, B-5NP, B-5NQ, B-5NR, B-5NS, B-5NT, B-5NU, B-5NV, B-5NW, B-5NX, B-5NY, B-5NZ, B-5OA, B-5OB, B-5OC, B-5OD, B-5OE, B-5OF, B-5OG, B-5OH, B-5OI, B-5OJ, B-5OK, B-5OL, B-5OM, B-5ON, B-5OO, B-5OP, B-5OQ, B-5OR, B-5OS, B-5OT, B-5OU, B-5OV, B-5OW, B-5OX, B-5OY, B-5OZ, B-5PA, B-5PB, B-5PC, B-5PD, B-5PE, B-5PF, B-5PG, B-5PH, B-5PI, B-5PJ, B-5PK, B-5PL, B-5PM, B-5PN, B-5PO, B-5PP, B-5PQ, B-5PR, B-5PS, B-5PT, B-5PU, B-5PV, B-5PW, B-5PX, B-5PY, B-5PZ, B-5QA, B-5QB, B-5QC, B-5QD, B-5QE, B-5QF, B-5QG, B-5QH, B-5QI, B-5QJ, B-5QK, B-5QL, B-5QM, B-5QN, B-5QO, B-5QP, B-5QQ, B-5QR, B-5QS, B-5QT, B-5QU, B-5QV, B-5QW, B-5QX, B-5QY, B-5QZ, B-5RA, B-5RB, B-5RC, B-5RD, B-5RE, B-5RF, B-5RG, B-5RH, B-5RI, B-5RJ, B-5RK, B-5RL, B-5RM, B-5RN, B-5RO, B-5RP, B-5RQ, B-5RR, B-5RS, B-5RT, B-5RU, B-5RV, B-5RW, B-5RX, B-5RY, B-5RZ, B-5SA, B-5SB, B-5SC, B-5SD, B-5SE, B-5SF, B-5SG, B-5SH, B-5SI, B-5SJ, B-5SK, B-5SL, B-5SM, B-5SN, B-5SO, B-5SP, B-5SQ, B-5SR, B-5SS, B-5ST, B-5SU, B-5SV, B-5SW, B-5SX, B-5SY, B-5SZ, B-5TA, B-5TB, B-5TC, B-5TD, B-5TE, B-5TF, B-5TG, B-5TH, B-5TI, B-5TJ, B-5TK, B-5TL, B-5TM, B-5TN, B-5TO, B-5TP, B-5TQ, B-5TR, B-5TS, B-5TT, B-5TU, B-5TV, B-5TW, B-5TX, B-5TY, B-5TZ, B-5UA, B-5UB, B-5UC, B-5UD, B-5UE, B-5UF, B-5UG, B-5UH, B-5UI, B-5UJ, B-5UK, B-5UL, B-5UM, B-5UN, B-5UO, B-5UP, B-5UQ, B-5UR, B-5US, B-5UT, B-5UU, B-5UV, B-5UW, B-5UX, B-5UY, B-5UZ, B-5VA, B-5VB, B-5VC, B-5VD, B-5VE, B-5VF, B-5VG, B-5VH, B-5VI, B-5VJ, B-5VK, B-5VL, B-5VM, B-5VN, B-5VO, B-5VP, B-5VQ, B-5VR, B-5VS, B-5VT, B-5VU, B-5VV, B-5VW, B-5VX, B-5VY, B-5VZ, B-5WA, B-5WB, B-5WC, B-5WD, B-5WE, B-5WF, B-5WG, B-5WH, B-5WI, B-5WJ, B-5WK, B-5WL, B-5WM, B-5WN, B-5WO, B-5WP, B-5WQ, B-5WR, B-5WS, B-5WT, B-5WU, B-5WV, B-5WW, B-5WX, B-5WY, B-5WZ, B-5XA, B-5XB, B-5XC, B-5XD, B-5XE, B-5XF, B-5XG, B-5XH, B-5XI, B-5XJ, B-5XK, B-5XL, B-5XM, B-5XN, B-5XO, B-5XP, B-5XQ, B-5XR, B-5XS, B-5XT, B-5XU, B-5XV, B-5XW, B-5XX, B-5XY, B-5XZ, B-5YA, B-5YB, B-5YC, B-5YD, B-5YE, B-5YF, B-5YG, B-5YH, B-5YI, B-5YJ, B-5YK, B-5YL, B-5YM, B-5YN, B-5YO, B-5YP, B-5YQ, B-5YR, B-5YS, B-5YT, B-5YU, B-5YV, B-5YW, B-5YX, B-5YY, B-5YZ, B-5ZA, B-5ZB, B-5ZC, B-5ZD, B-5ZE, B-5ZF, B-5ZG, B-5ZH, B-5ZI, B-5ZJ, B-5ZK, B-5ZL, B-5ZM, B-5ZN, B-5ZO, B-5ZP, B-5ZQ, B-5ZR, B-5ZS, B-5ZT, B-5ZU, B-5ZV, B-5ZW, B-5ZX, B-5ZY, B-5ZZ						

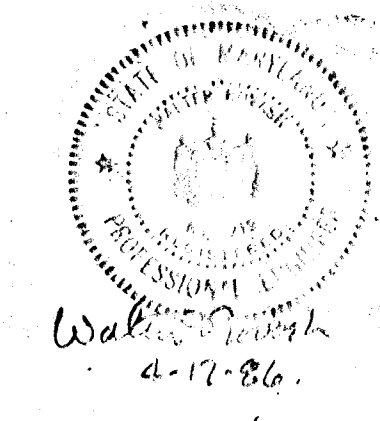


NO	RADIUS	LENGTH	TRANSIT	CHD BEARING DIST	DELTA
CURVE 1	300.00	214.68	118.11	N 8° 41' 40" E, 200.12'	41° 00' 00"
CURVE 2	600.00	429.36	236.22	S 76° 27' 06" E, 223.83'	87° 00' 00"
CURVE 3	150.31	69.92	34.96	S 82° 00' 18" E, 68.61'	31° 39' 45"



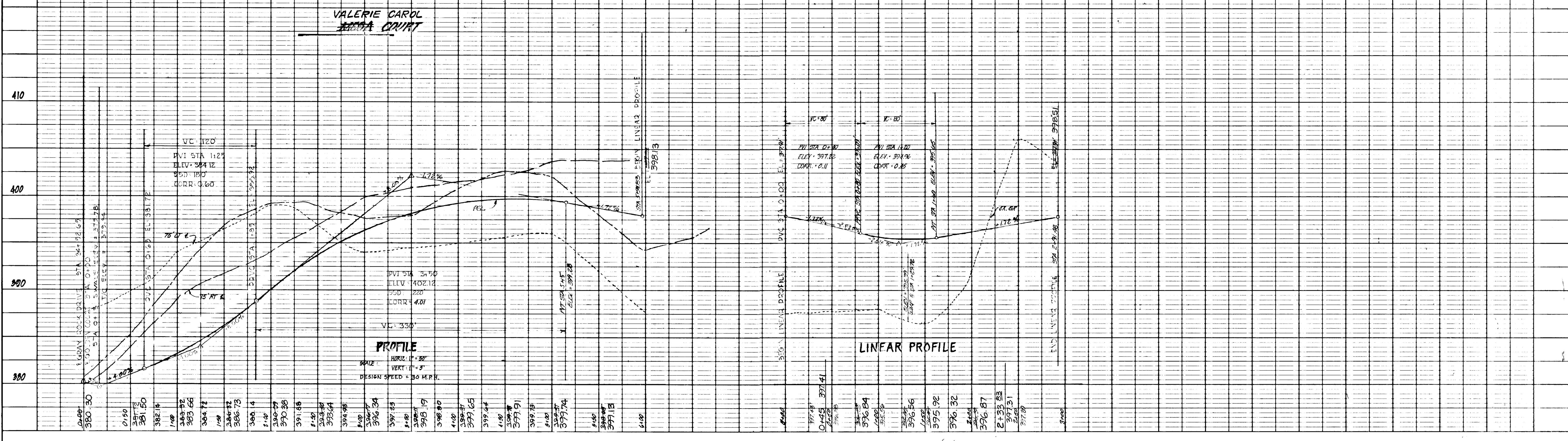
NOTES:
 1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 2) STOP SIGN TO BE IN ACCORDANCE WITH HOWARD COUNTY TRAFFIC DIVISION SPECIFICATION RI-1.

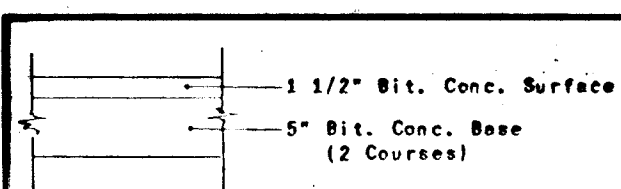
APPROVED: DEPARTMENT OF PUBLIC WORKS
 OFFICE OF PLANNING AND ZONING
 DATE: 4-23-86



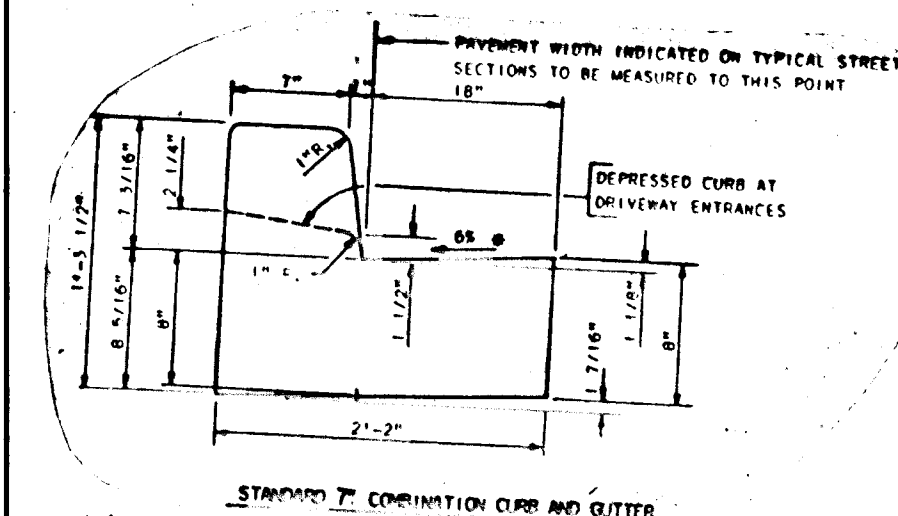
TITLE: MESA COURT VALERIE CAROL COURT
 PROJECT: GRAY ROCK FARMS-SECTION 3
 LOCATION: 2ND ELECTION DISTRICT, TAX MAP 24, HOWARD CO., MD.
 SCALE: AS SHOWN
 DESIGNED BY: JTB
 DRAWN BY: JTB
 CHECKED BY: W.A.L.
 DATE: OCTOBER, 1985
 FIELD BOOK: PAGE NO.: JOB NO.: 65136
 DRAWING NO.: 3 OF 10

boender associates INC.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3365 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 465-7777



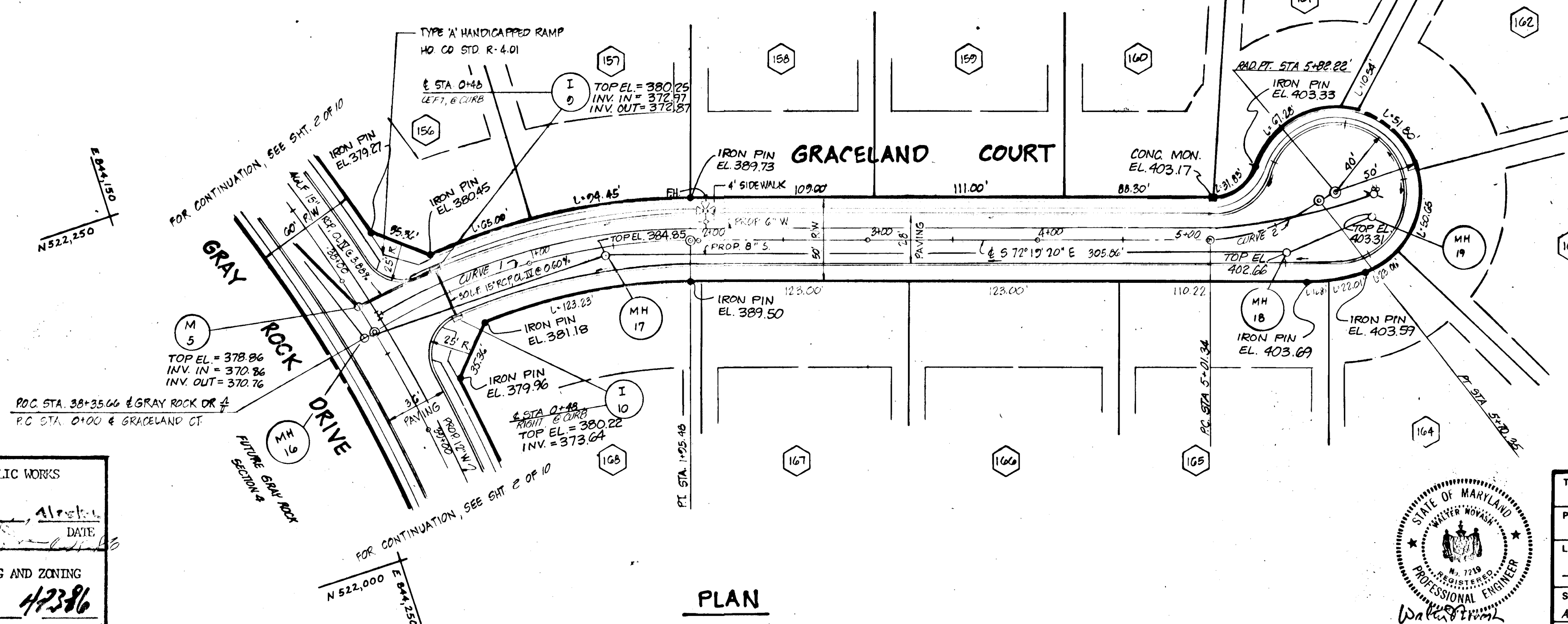
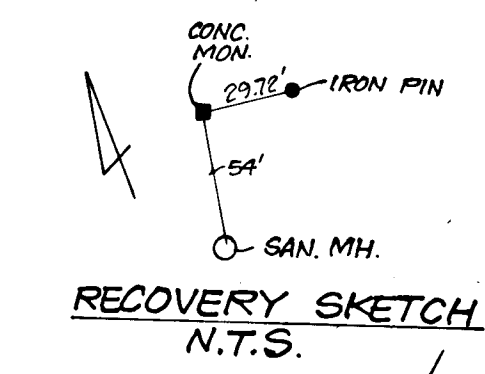


TYPICAL PAVING SECTION: P-2
GRACELAND COURT



NOTES:
 1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HANOVER COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 2) STOP SIGN TO BE IN ACCORDANCE WITH MD. CD. TRAFFIC DIVISION SPEC. R1-1.

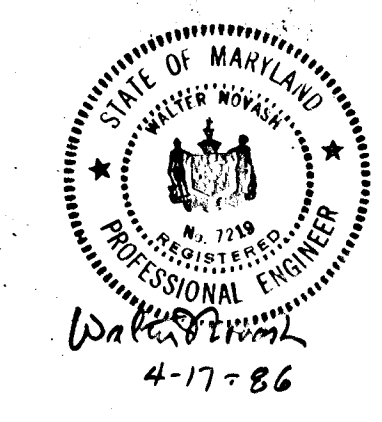
NO.	CURVE DATA	CHART
1	360.00' 195.00'	100.36'
2	499.62' 69.01'	35.69'



PLAN
SCALE: 1"=50'

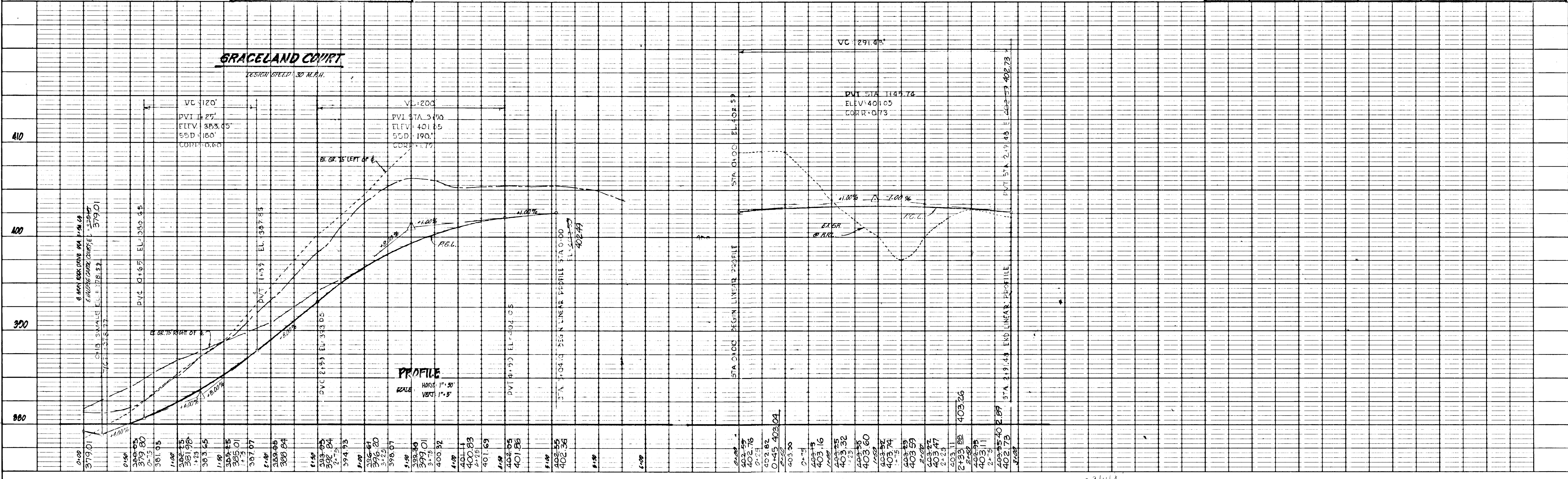
OWNER
 THE MILLER LAND COMPANY
 9035 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MD. 21045

AS-BUILT SURVEY CERTIFIED BY
 LUTHER E. BATHURST, MD. P.E.
 No. 11393, ON 11-18-87



TITLE: GRACELAND COURT	
PROJECT: GRAY ROCK FARMS - SECTION 3	
LOCATION: 1ND ELECTION DISTRICT TAX MAP 2A HANOVER CO. MD.	
SCALE:	DESIGNED BY: JTN
FIELD BOOK:	DRAWN BY: JTN
PAGE NO.:	CHECKED BY: K.A.
JOB NO.:	DATE: OCTOBER, 1985
DRAWING NO.:	4 OF 2

boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 5565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 1301 465-7777



CONSTRUCTION SEQUENCE

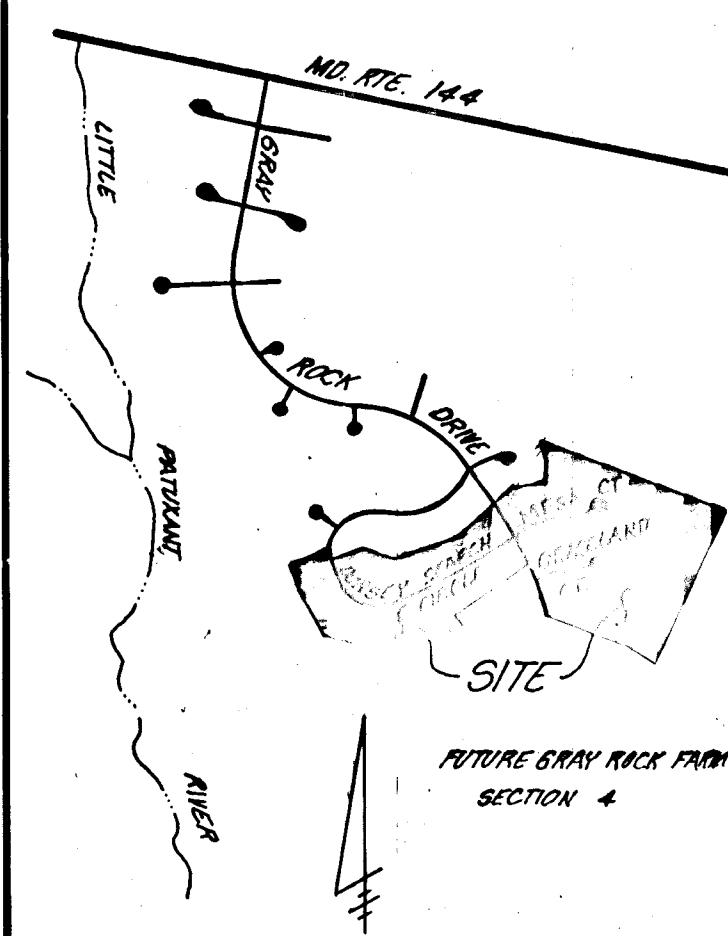
1. Obtain Grading Permit
2. Notify the Howard County Bureau of Licenses, Inspections and Permits and the Construction Inspection Survey Division at 792-7272 at least 24 hours prior to beginning grading operations.
3. Install stabilized construction entrances (S.C.E.) prior to disturbing site. 1 day
4. Clear and grub for installation of sediment control devices. Install sediment traps, earth dikes and straw bale dikes. 1 week
5. Grade the roads and construct the storm drain systems. Construct only portions of the drains from M-1 to S-1, M-3 to S-2 and I-11 to S-3 initially to allow stormwater discharges into sediment traps Nos. 1, 2 and 3 as shown on the sediment control plans. 1 month
6. Construct the sewers and water mains complete and in place. For off-site construction, pile excavated dirt on the high side of the trench, backfill daily and stabilize disturbed areas at the end of each days work. 2 months
7. Construct curbs and gutters and pave roads. 2 weeks
8. During lot grading, install straw bale dikes as directed by the Inspector to prevent all runoff during lot grading. Provide driveway stabilized construction entrances. On Going
9. Grade lots, construct houses, driveways, utility connections, etc., on an individual basis. Vegetatively stabilize lots prior to removing sediment control devices. Where necessary, provide straw bale dikes up side lot lines to prevent silt runoff from unstabilized lots to finished lots. 12 months
10. Complete all construction and vegetatively stabilize disturbed areas. On Going
11. Flush out the storm drain systems. Complete the construction of the storm drain systems to the permanent outfalls. 2 weeks
12. With the grading inspector's approval, remove sediment traps and other sediment control devices. Stabilize any remaining disturbed areas. 1 week

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINS UNDISBURBED SERVICE. ANY DAMAGE INCURRED HERE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
4. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - MISS UTILITY 559-0100
 - BELL TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 OR 3554
 - BALTIMORE GAS AND ELECTRIC COMPANY 539-8000, EXT. 691
 - HOWARD COUNTY BUREAU OF UTILITIES 992-7366
 - HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-7272
5. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 30.0' RADIUS UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRINCHES WITHIN RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1991 EDITION.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. DESIGNATED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 - ALL 60' RIGHT-OF-WAY = 30 M.P.H.
 - ALL 80' RIGHT-OF-WAY = 40 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
12. ALL FILL AREAS WITHIN RIMWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
13. ALL PIPE ELEVATIONS SHOWN ARE INVERT \ominus ELEVATIONS.
14. PRELITE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
15. SUBJECT PROPERTY ZONED R-20 PER 10-03-77 COMPREHENSIVE ZONING PLAN.
16. TOPO TAKEN FROM FIELD RUN SURVEY DATED *SEE NOTE 19
17. NO PIPE SHALL BE LAYD UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
18. ALL STORM DRAIN PIPE FITTING SHALL BE CLASS "B" SWRM IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL, UNLESS OTHERWISE NOTED.
19. ALL ROAD AND OFFSITE SLOPER AND STORM DRAIN PROFILES USE TOPO FIELD RUN BY BOENDER ASSOCIATES, INC. 1985. ALL LOT TOPS BASED ON HOWARD COUNTY "1" 200' NORMAL TOPO.

STRUCTURE SCHEDULE

NO.	TYPE	NO. IN	NO. SET	TOP ELEV.	REMARKS
I-1	A-5 INLET	352.98 352.75 353.00	352.47 352.94	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-2	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-3	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-4	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-5	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-6	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-7	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-8	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-9	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-10	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
I-11	A-5 INLET	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-1	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-2	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-3	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-4	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-5	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
M-6	MANHOLE	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
S-1	CONC. INTERSECTION	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
S-2	CONC. INTERSECTION	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.
S-3	CONC. INTERSECTION	353.27 353.25	352.85	359.77 359.74	NO. CO. STD. DET. SD 4.01.



SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (997-2433)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51) and temporary seeding (Sec. 52) and mulch alone can only be done when recommended seeding does not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain in place and are to be maintained in operative condition until notification for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:
 - Total Area of Site: 21.5 Acres
 - Area Disturbed: 15.2 Acres
 - Area to be seeded or planted: 15.2 Acres
 - Area to be vegetatively stabilized: 16.3 Acres
 - Total C.U. Yds: 2,500 C.U. Yds
 - Offsite waste/borrow area location: [Location]
- 8) Any sediment control practice which is disturbed by grading activities for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment control structures may be deemed necessary by the Howard County DPW sediment control Inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment control. Any proceeding with any other earth disturbance or grading, other than building or grading inspection, shall not be authorized until this initial approval by the inspection agency is made.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, dicing or other acceptable means before seeding.

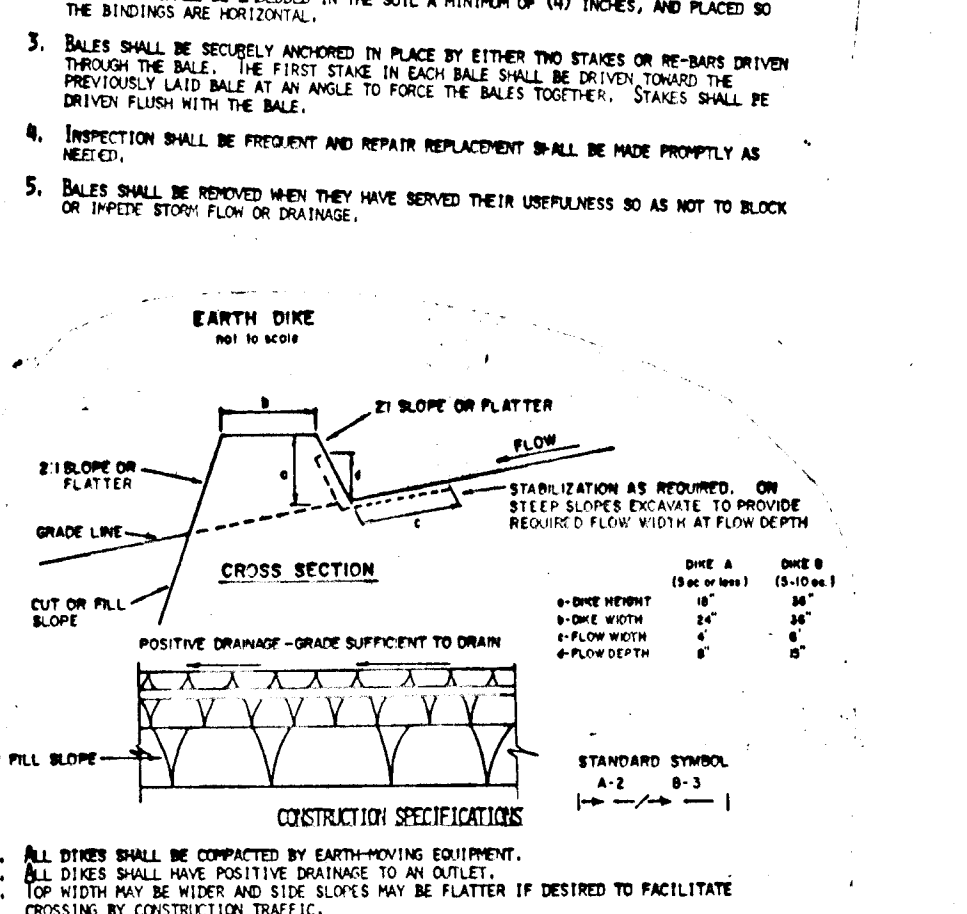
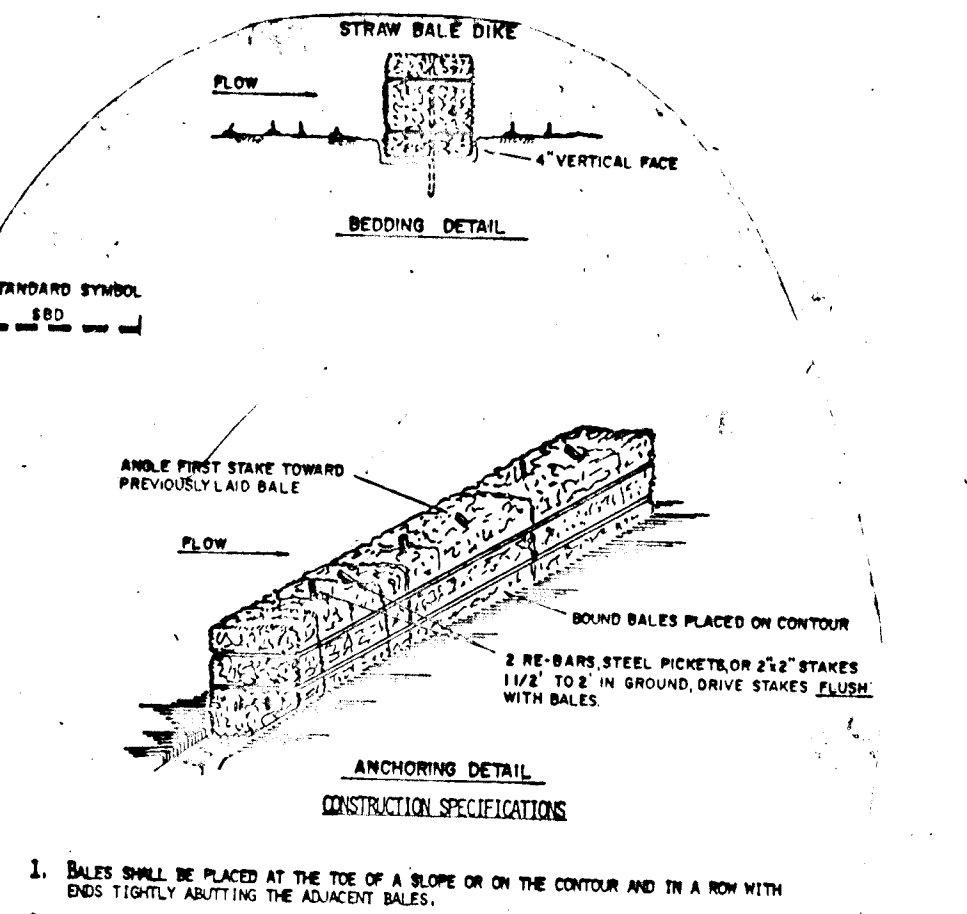
Soil Amendments: In lieu of soil test recommendations, use one of the following subsoils:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 urea fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For the period March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (14 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre of seeding clover. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using muck anchoring tool or 2/8 galloons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 3/8 galloons per acre (6 gal/1000 sq ft) for anchoring.

Inspection: Inspect all seeded areas and make needed repairs, replacements and reseedings.



ELONG CHANNEL STABILIZATION

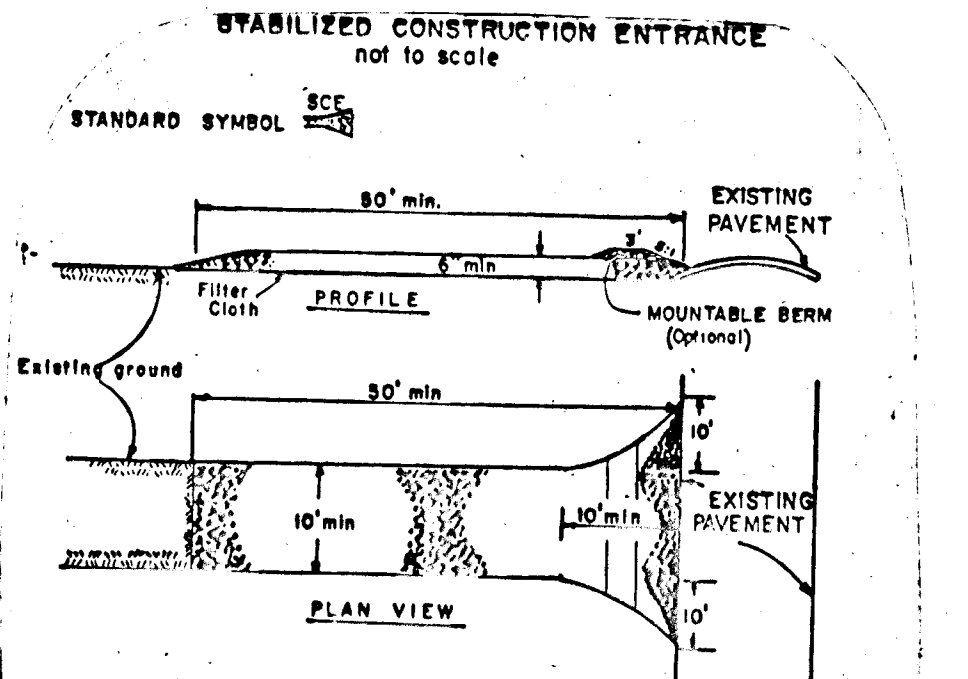
TYPE OF CHANNEL	COVER	DIKE A	DIKE B
1	5-3-08	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3-1-5-08	SEED AND STRAW MULCH	SEED USING LIME, OR EXCESSIVE SOIL 2" STONE
3	5-1-8-08	SEED WITH LIME, OR SOIL	LIME RIP-RAP 4-8"
4	8-1-08	LIME RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2" THICK STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3" THICK IN THICKNESS AND IN A LAYER AT LEAST 8" THICK IN THICKNESS AND PRESSED INTO THE SOIL.

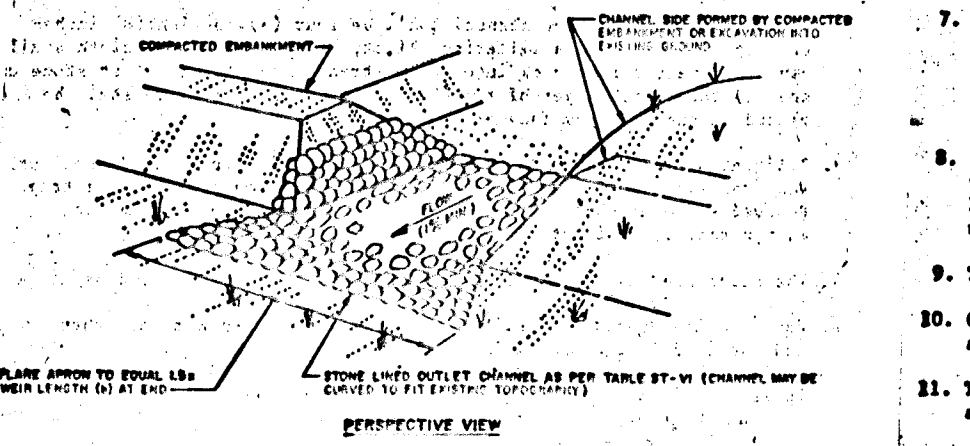
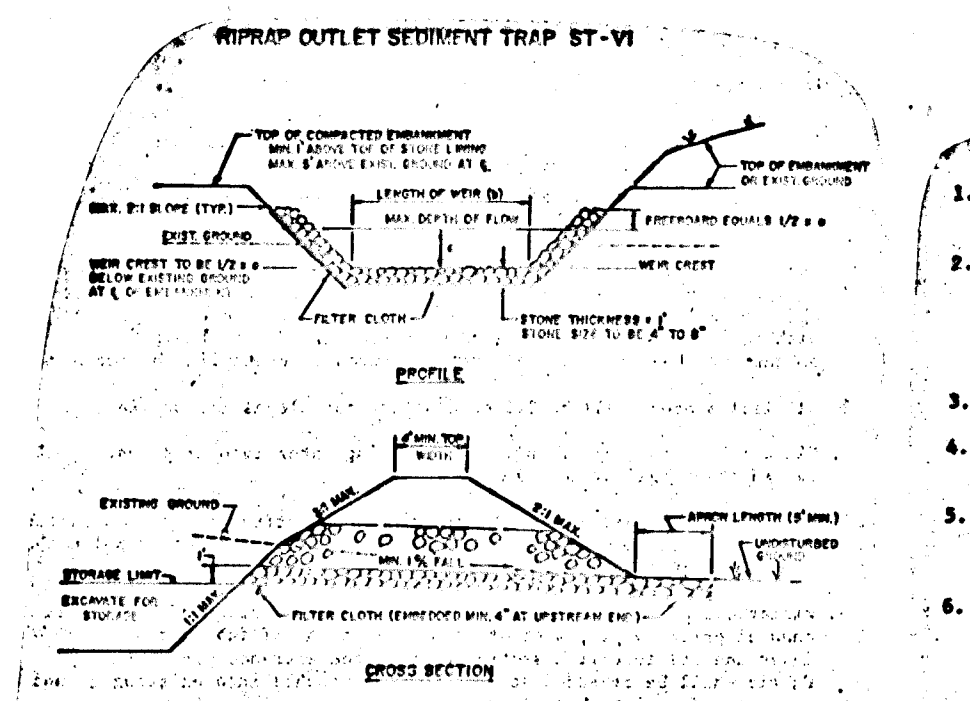
B. RIP-RAP TO BE 4" STONES IN A LAYER AT LEAST 8" THICK IN THICKNESS AND PRESSED INTO THE SOIL.

C. EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

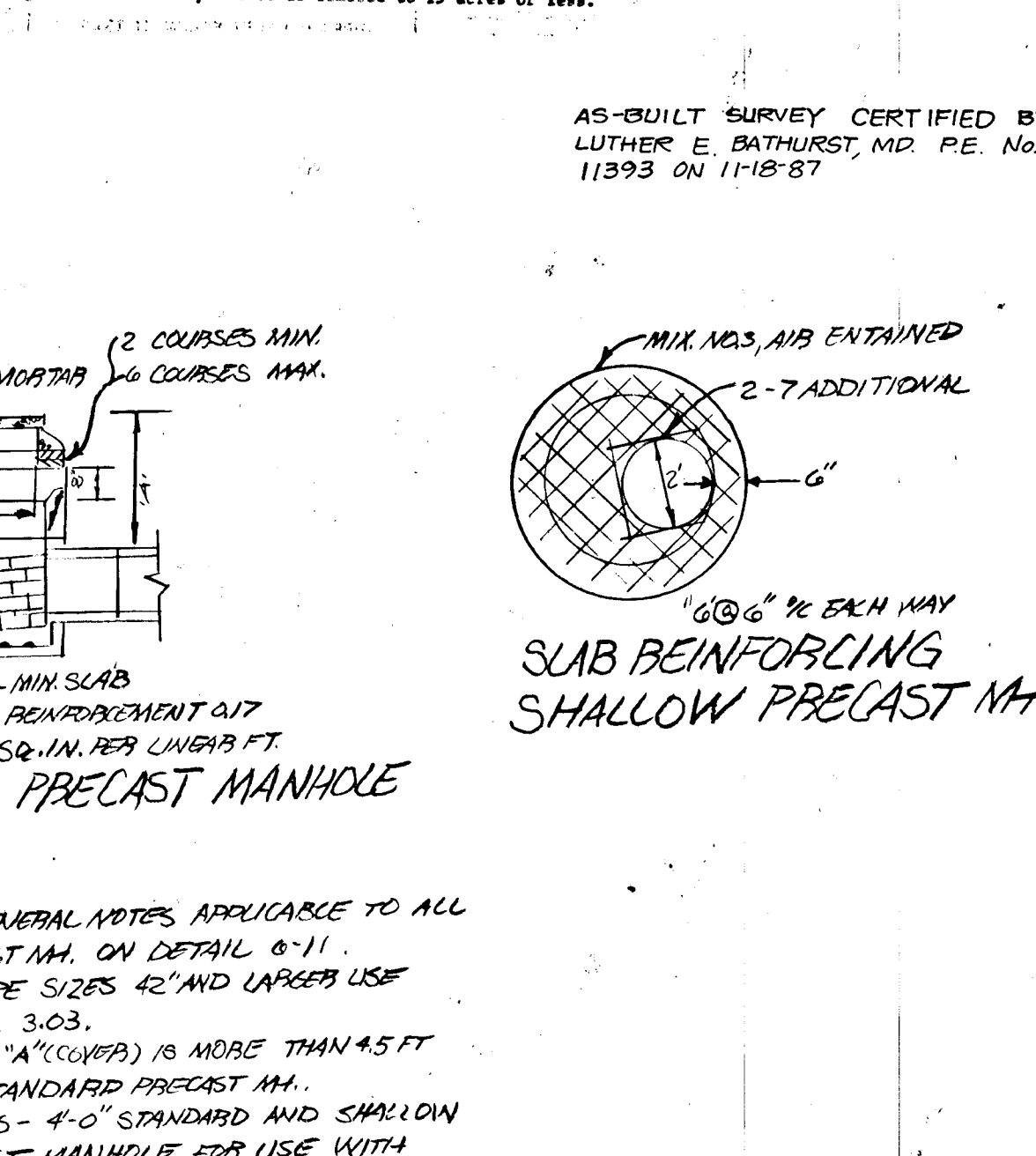
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 10 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a slope facing east/west lot.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 1/2" slope will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.
 8. Washing - Vehicles shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.



- CONSTRUCTION SPECIFICATIONS FOR ST-21**
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be covered by traveling with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
 4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
 6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with sections nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
 7. Stone used in the outlet channel shall be four (4) to eight (8) inches (dryweight). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet but be one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 9. The structure shall be inspected after each rain and repaired as needed.
 10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 12. Drainage area for this practice is limited to 15 acres or less.



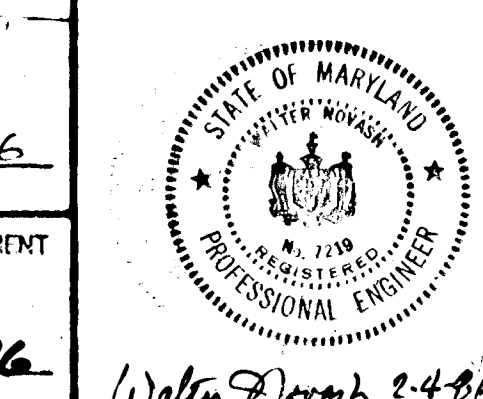
NOTE:
1. SEE GENERAL NOTES APPLICABLE TO ALL PRECAST MH. ON DETAIL 6-11.
2. FOR PIPE SIZES 42" AND LARGER USE DETAIL 3-03.
3. WHERE "A" (COVER) IS MORE THAN 4.5 FT USE STANDARD PRECAST MH.
4. THIS IS - 4" STANDARD AND SHALLOW PRECAST MANHOLE FOR USE WITH 24" AND SMALLER PIPE.

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 4-23-86
CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] DATE: 4-23-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
[Signature] DATE: 4-23-86
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] DATE: 4/23/86
SOIL CONSERVATION DISTRICT



DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
DEVELOPER: [Signature] DATE: 4/5/86

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
ENGINEER: [Signature] DATE: 2-4-86

OWNER/DEVELOPER
THE MILLER LAND COMPANY
9035 BALTO. NAT. PIKE
ELLCOTT CITY, MD 21043

TITLE: **DETAILS**

PROJECT: **GRAY ROCK FARMS, SECT. 3**

LOCATION: **SECOND ELECTION DISTRICT HOWARD CO. MD.**

SCALE: **AS NOTED** DESIGNED BY: **N.H.** DRAWN BY: **J.T.N.** CHECKED BY: **W.N.** DATE: **JAN 1986**

FIELD BOOK: **AS NOTED** PAGE NO.: **35236** JOB NO.: **50526** DRAWING NO.: **5 OF 12**

boender associates inc.
consulting engineers
land surveyors
land planners
COURTHOUSE SQUARE
3865 ELLICOTT MILLS DRIVE
ELLCOTT CITY, MD 21043
1301 485-7177

242

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature]
 CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING

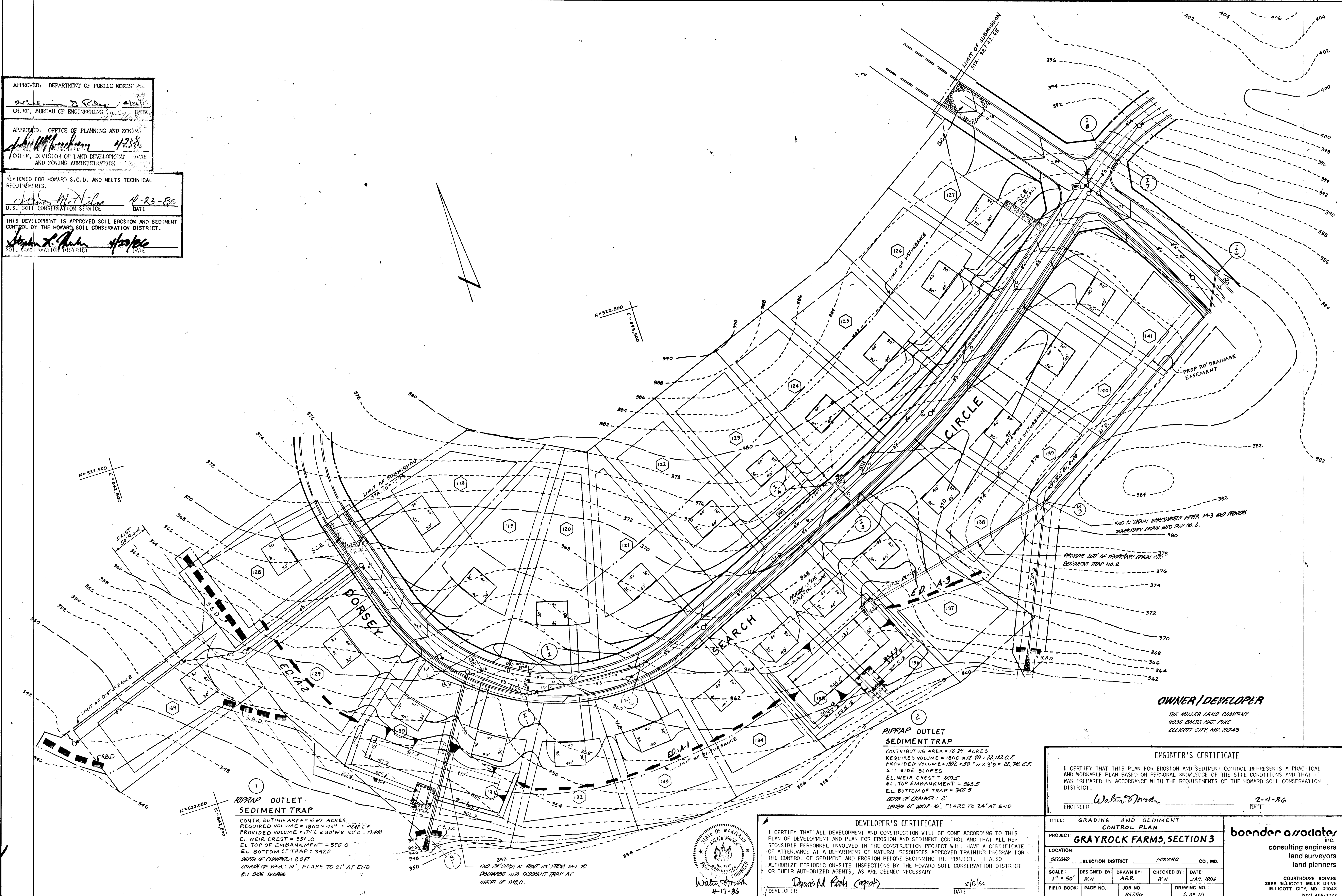
[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 4-23-86
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 4/23/86
 SOIL CONSERVATION DISTRICT DATE



1
 RIPRAP OUTLET
 SEDIMENT TRAP
 CONTRIBUTING AREA = 10.69 ACRES
 REQUIRED VOLUME = 1800 x 0.09 = 162 C.F.
 PROVIDED VOLUME = 17' x 30' x 3' = 1530 C.F.
 EL. WEIR CREST = 351.0
 EL. TOP OF EMBANKMENT = 355.0
 EL. BOTTOM OF TRAP = 347.0
 DEPTH OF CHANNEL: 2.0 FT
 LENGTH OF WEIR: 14', FLARE TO 2:1 AT END
 2:1 SIDE SLOPES

2
 RIPRAP OUTLET
 SEDIMENT TRAP
 CONTRIBUTING AREA = 12.29 ACRES
 REQUIRED VOLUME = 1800 x 12.29 = 22,122 C.F.
 PROVIDED VOLUME = 130' x 50' x 3' = 22,500 C.F.
 2:1 SIDE SLOPES
 EL. WEIR CREST = 359.5
 EL. TOP OF EMBANKMENT = 363.5
 EL. BOTTOM OF TRAP = 355.5
 DEPTH OF CHANNEL: 2'
 LENGTH OF WEIR: 16', FLARE TO 2:1 AT END

END OF DRAIN AT POINT 115' FROM M-1 TO
 DISCHARGE INTO SEDIMENT TRAP AT
 INVERT OF 349.0.

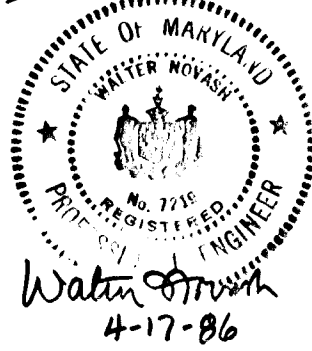
OWNER/DEVELOPER
 THE MILLER LAND COMPANY
 9035 BALTO MAT PIKE
 ELLICOTT CITY, MD 21043

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 ENGINEER: *[Signature]* DATE: 2-4-86

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 DEVELOPER: *[Signature]* DATE: 2/16/86

TITLE: GRADING AND SEDIMENT CONTROL PLAN
 PROJECT: GRAY ROCK FARMS, SECTION 3
 LOCATION: SECOND ELECTION DISTRICT HOWARD CO. MD.
 SCALE: 1" = 50'
 DESIGNED BY: W.N. DRAWN BY: W.N. CHECKED BY: W.N. DATE: JAN. 1986
 FIELD BOOK: PAGE NO. JOB NO. DRAWING NO. 6 OF 10

boender associates
 inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD 21043
 1801 465-7777



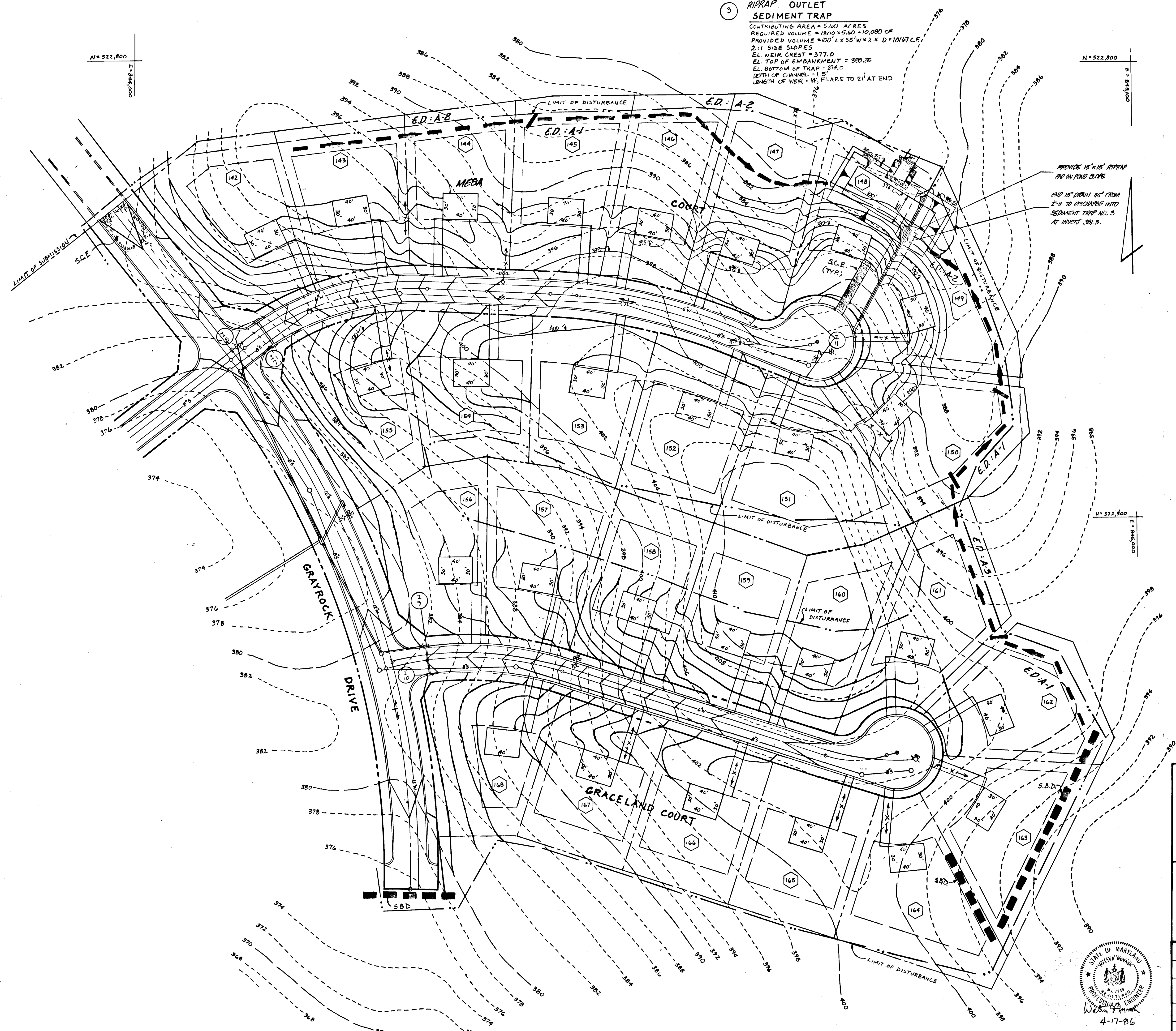
292

F-86-143

3 RIPRAP OUTLET
 SEDIMENT TRAP
 CONTRIBUTING AREA = 5.60 ACRES
 REQUIRED VOLUME = 1800 X 5.60 = 10,080 CF
 PROVIDED VOLUME = 100' X 35' W X 2.5' D = 10167 C.F.
 2:1 SIDE SLOPES
 EL. WEIR CREST = 377.0
 EL. TOP OF EMBANKMENT = 380.25
 EL. BOTTOM OF TRAP = 374.0
 DEPTH OF CHANNEL = 1.5'
 LENGTH OF WEIR = 1/4" FLARE TO 21" AT END

APPROVED: DEPARTMENT OF PUBLIC WORKS
 OFFICE, BUREAU OF ENGINEERING
 APPROVED: OFFICE OF PLANNING AND ZONING
 CODE, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

REVIEWED FOR HOWARD S.C.D. AND METS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

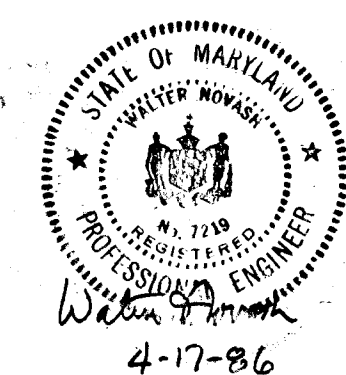


PROVIDE 15" X 15" RIPRAP AND ON ROAD SLOPE
 END 15' DOWN 15' FROM 2"-11" TO DISCHARGE INTO SEDIMENT TRAP NO. 5 AT INVERT 381.5.

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 DEVELOPER: Dennis M. Buda 2/6/86

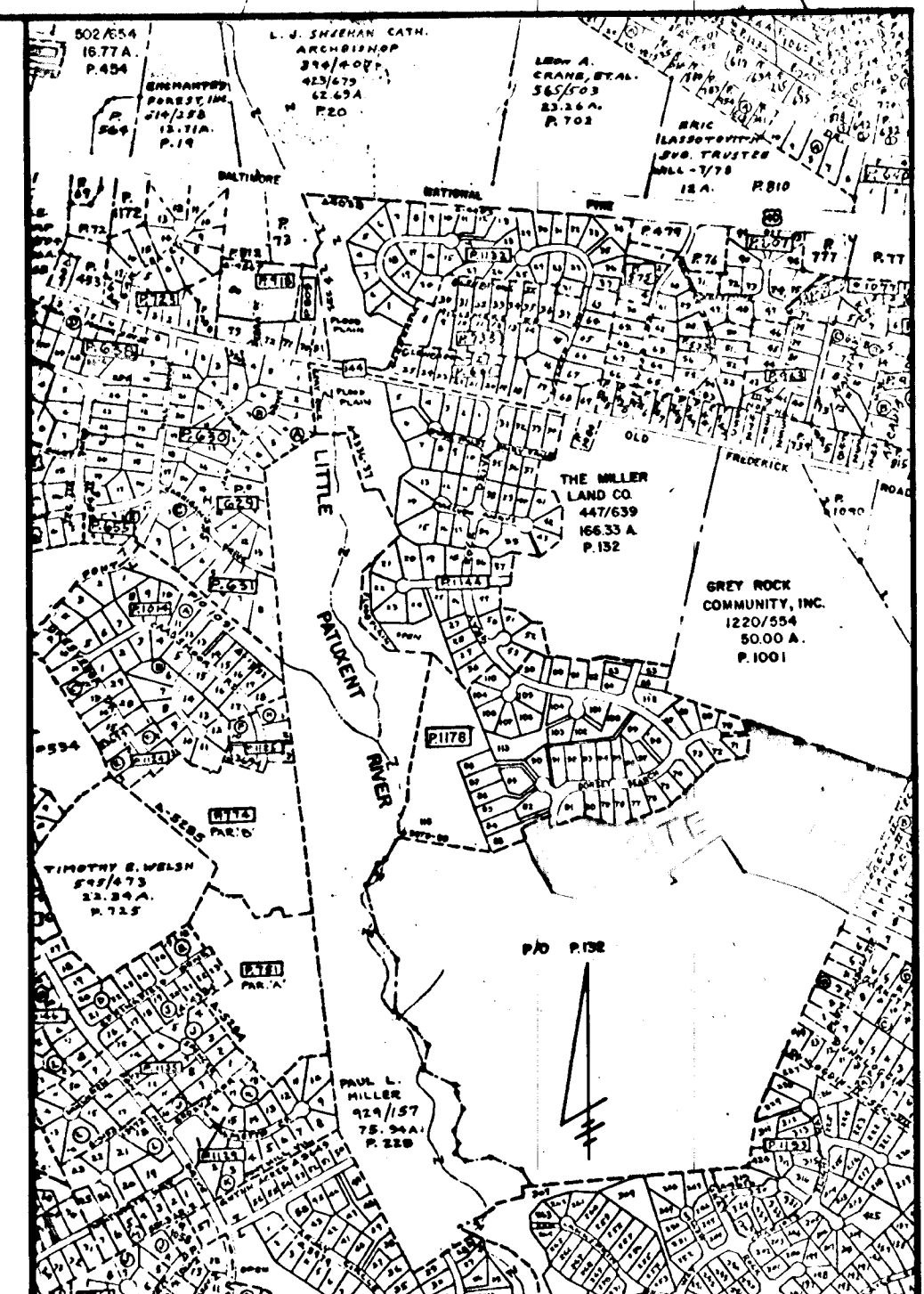
ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 ENGINEER: William P. Smith 2-4-86

TITLE: GRADING AND SEDIMENT CONTROL PLAN		boender associates inc.	
PROJECT: GRAYROCK FARMS, SECTION 3		consulting engineers land surveyors land planners	
LOCATION: ELECTION DISTRICT _____ CO. MD.		COURTHOUSE SQUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21043 (301) 465-7777	
SCALE: 1" = 50'	DESIGNED BY: W.N.	CHECKED BY: W.N.	DATE: 2-3-86
FIELD BOOK: PAGE NO. 85236	JOB NO.: 85236	DRAWING NO.: 7 OF 10	



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F-86-143



VICINITY MAP
SCALE: 1" = 1200'

GENERAL NOTES

1. TAX MAP: 24 PARCEL PART OF PARCEL 152
2. PROPERTY DEED REFERENCE:
3. EX ZONING: R-20
4. PUBLIC WATER AND PUBLIC SEWERAGE ARE TO BE UTILIZED.
5. TOTAL AREA OF SITE: 31.36 AC. ±
6. TOTAL NO. OF LOTS: 52 TOTAL AREA OF LOTS: 25.93 AC. ±
7. TOTAL AREA OF OPEN SPACE: 5.43 AC. ±
8. TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY 1" = 200' AERIAL PHOTO MAPS.
9. ELEVATIONS AND BOUNDARY INFORMATION SHOWN HEREON IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
10. STREET TREES TO BE PROVIDED WITH A 2" TO 2 1/2" CALIBRE OF A HARDWOOD VARIETY AND IS DENOTED THUS (●)

APPROVED: DEPARTMENT OF PUBLIC WORKS

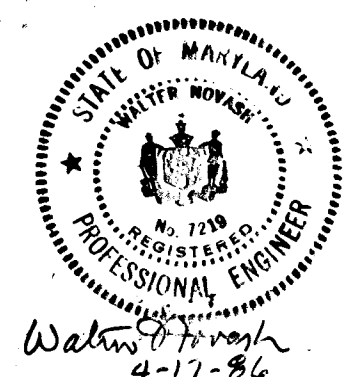
[Signature]
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING

[Signature] 4238
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
AND ZONING ADMINISTRATION

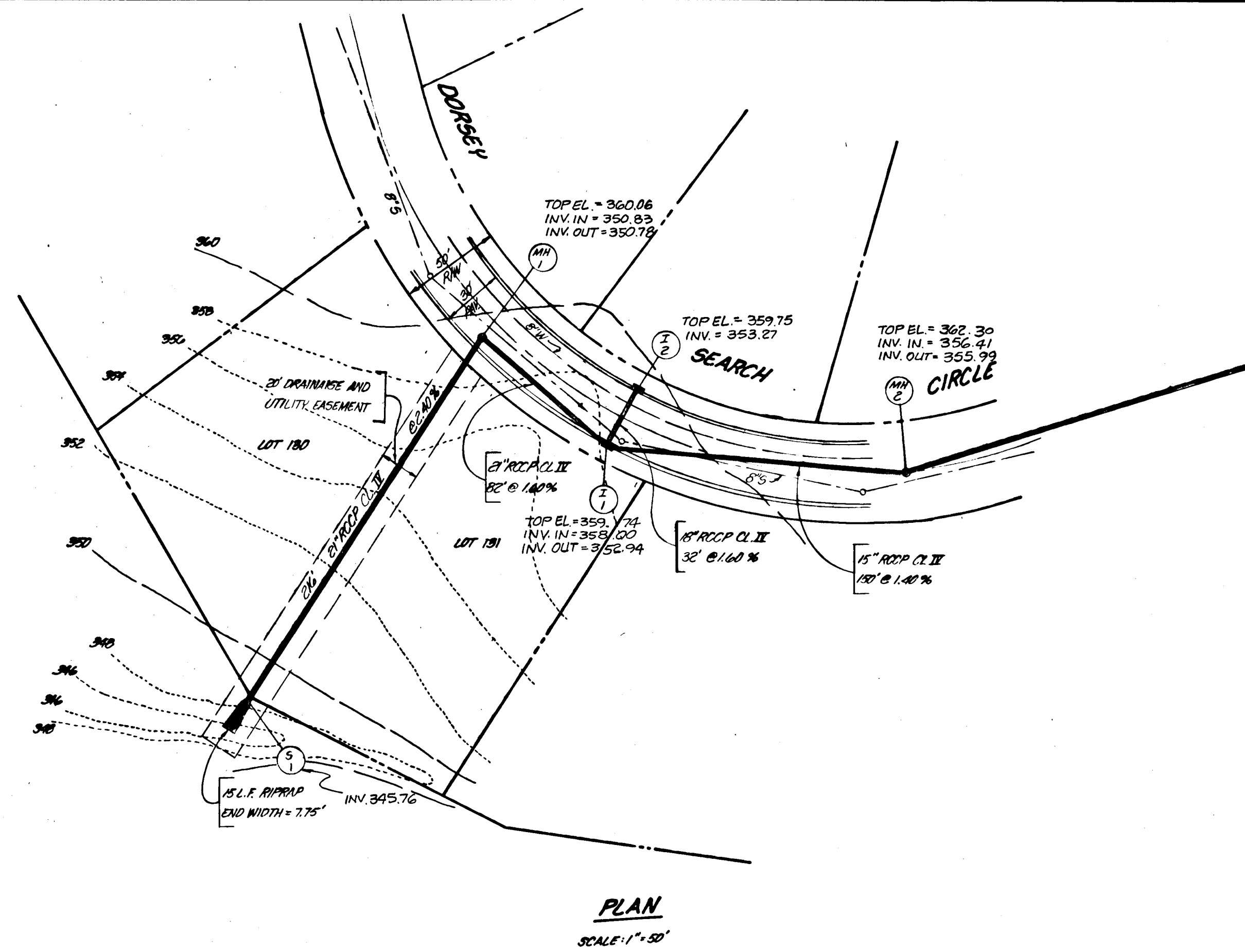
TITLE: DRAINAGE AREA MAP	
PROJECT: GRAY ROCK FARM, SECTION 3	
LOCATION: SECOND ELECTION DISTRICT	HOWARD CO., MD.
SCALE: 1" = 100'	DESIGNED BY: W.N. DRAWN BY: JTN CHECKED BY: W.N. DATE: OCT. 1985
FIELD BOOK:	PAGE NO.: JOB NO.: 85236 DRAWING NO.: 8 OF 12

boender associates
inc.
consulting engineers
land surveyors
land planners
COURTHOUSE SQUARE
3565 ELLICOTT MILLS DRIVE
ELLICOTT CITY, MD. 21043
1301 465-1777

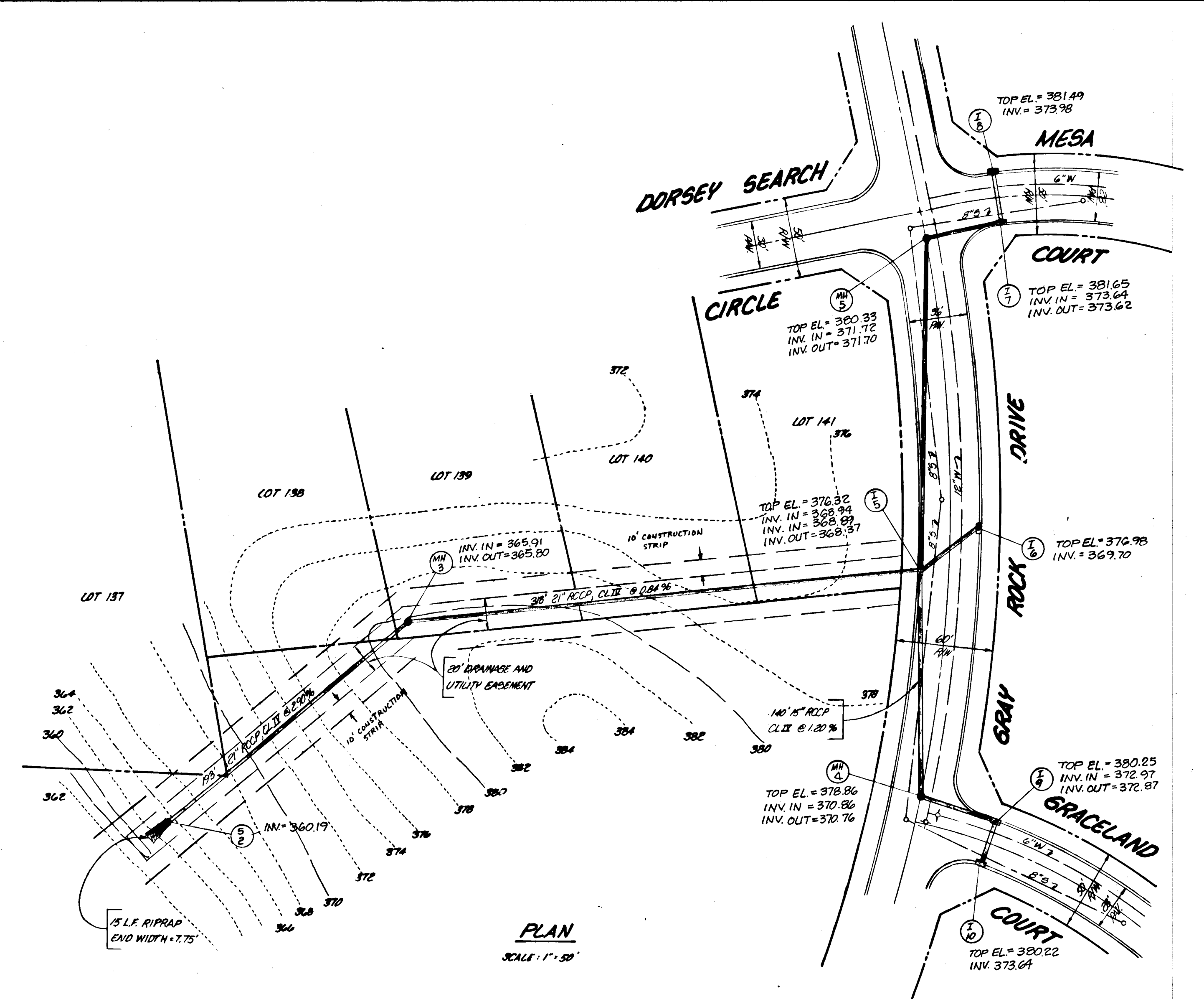


242

F-86-143



PLAN
SCALE: 1" = 50'

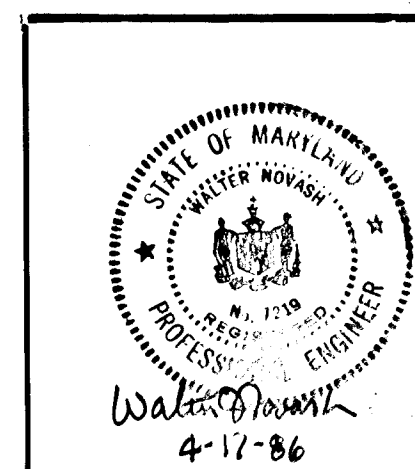


PLAN
SCALE: 1" = 50'

APPROVED: DEPARTMENT OF PUBLIC WORKS

 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED: OFFICE OF PLANNING AND ZONING

 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND ZONING ADMINISTRATION



DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 Developer: Dennis M. Rush (copy) DATE: 2/6/86
ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Engineer: Walter F. Smith DATE: 2-4-86

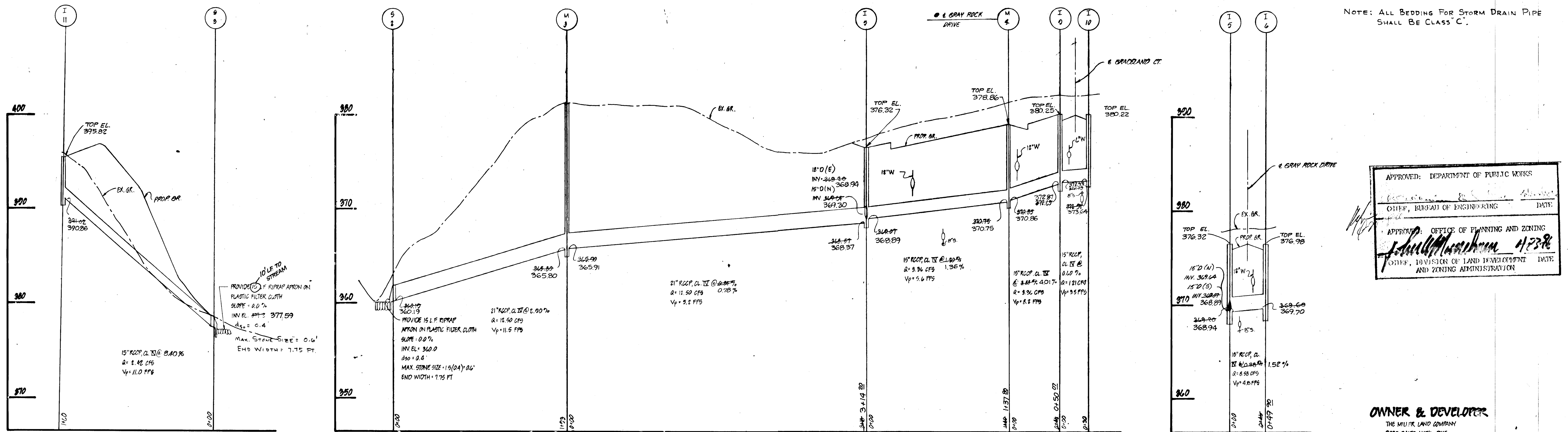
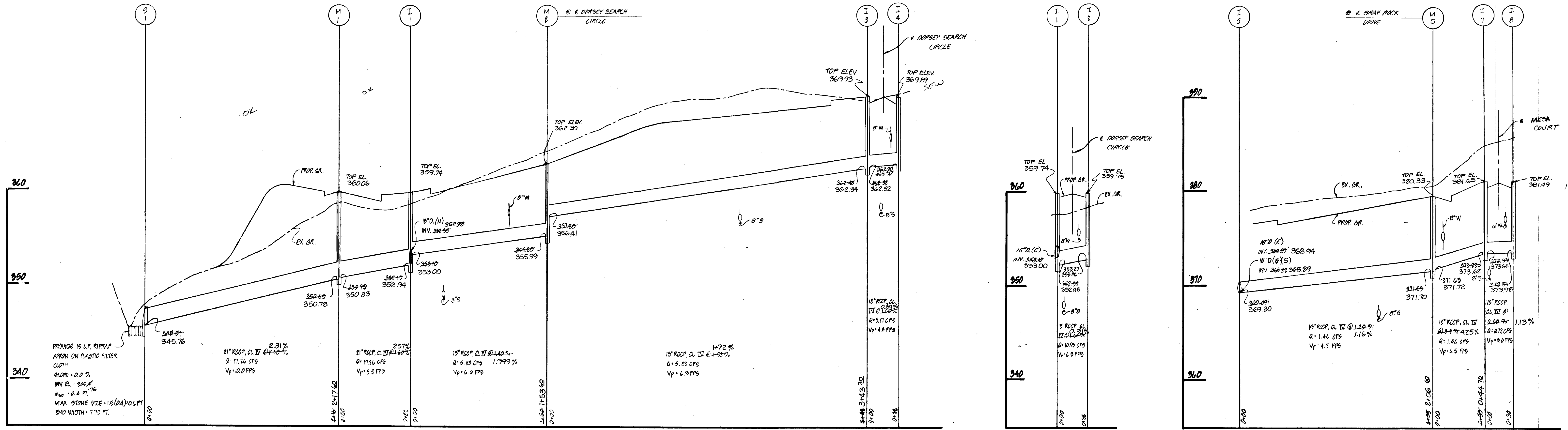
OWNER/DEVELOPER
 MILLER LAND COMPANY
 9035 BALDWIN PIKE
 ELLICOTT CITY, MD 21043

TITLE: OFFSITE STORMDRAIN PLAN			
PROJECT: GRAY ROCK FARM SECTION 3			
LOCATION: SECTION 3, ELECTION DISTRICT HOWARD, CO. MD.			
SCALE: AS NOTED	DESIGNED BY: WN	DRAWN BY: JTN	CHECKED BY: WN DATE: JAN, 1986
FIELD BOOK:	PAGE NO.:	JOB NO.:	DRAWING NO.:
		85236	9 of 10

boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3888 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 488-7777

AS-BUILT SURVEY CERTIFIED BY
 LUTHER E. BATHURST, MD. P.E. No.
 11393 ON 11-18-87

292



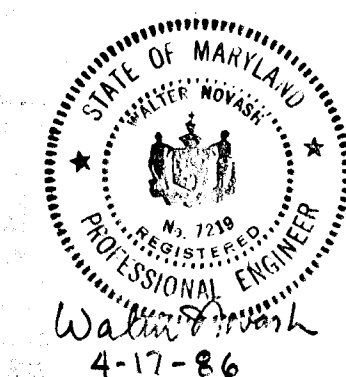
NOTE: ALL BEDDING FOR STORM DRAIN PIPE SHALL BE CLASS 'C'.

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE: _____
 APPROVED: OFFICE OF PLANNING AND ZONING
J. Shull
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE: 1/23/86

OWNER & DEVELOPER
 THE MILLER LAND COMPANY
 0095 BALDWIN PIKE
 ELLICOTT CITY, MARYLAND 21043

PROFILES

SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



TITLE: PROFILES		PROJECT: GRAY ROCK FARMS - SECTION 3		boender associates inc.	
LOCATION: 2ND ELECTION DISTRICT TAX MAP 24 HOWARD CO. MD.		SCALE: DESIGNED BY: PS SHOWN		consulting engineers	
DRAWN BY: DP		CHECKED BY: WM		land surveyors	
DATE: JANUARY, 1986		JOB NO.: 66296		land planners	
DRAWING NO.: 4-17-86		PAGE NO.: 10 OF 10		COURTHOUSE SQUARE	
FIELD BOOK: 4-17-86		JOB NO.: 66296		3585 ELLICOTT MILLS DRIVE	
DRAWING NO.: 4-17-86		PAGE NO.: 10 OF 10		ELLICOTT CITY, MD. 21043	
				13011 485-7777	

242