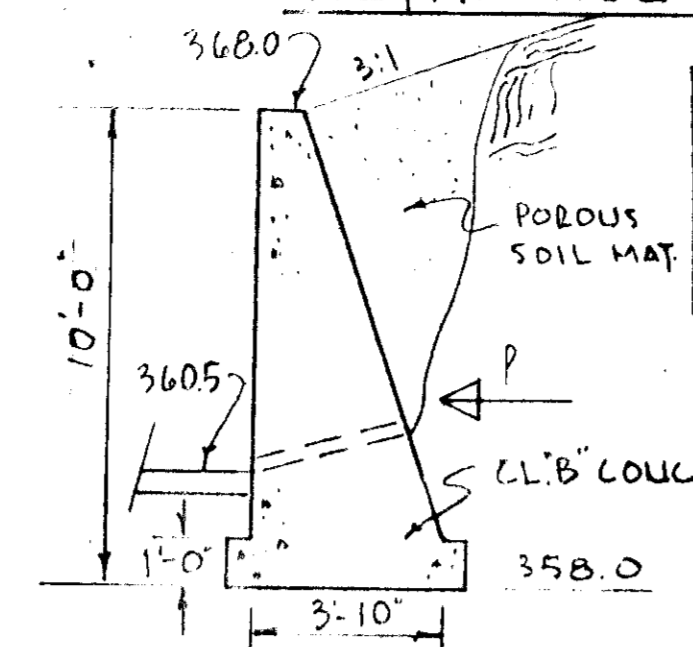
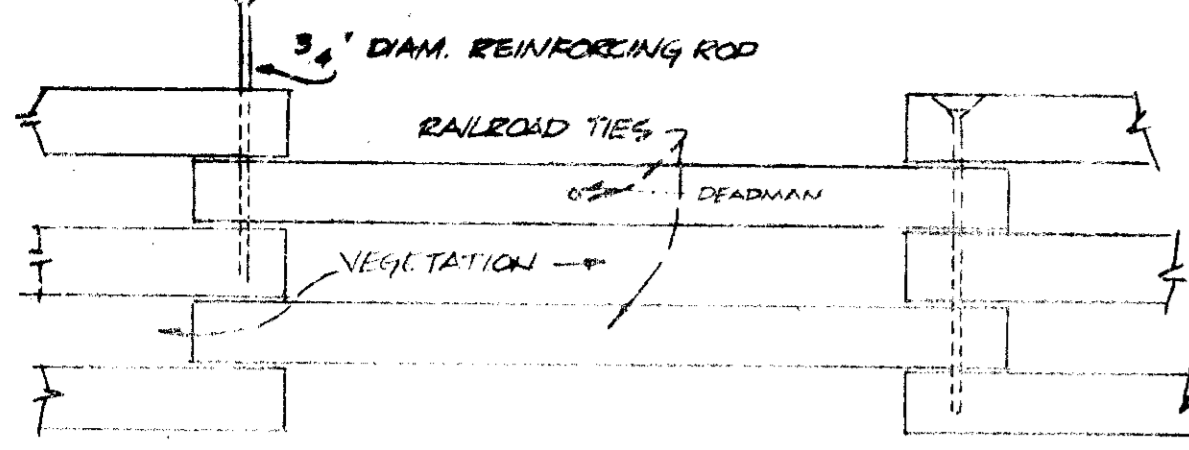


RETAINING WALL - GRAVITY TYPE

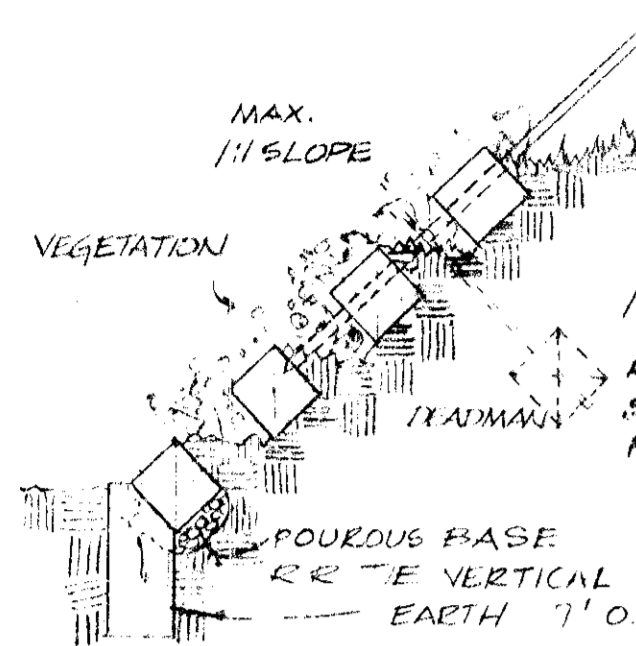


HEIGHT (FT.)	WEIGHT OF SOIL TYPE (P.C.F.)	EQUIVALENT UNIT FLUID WT. BEHIND WALL (P.C.F.)	EARTH PRESSURE PER FT. LENGTH WALL	TOE PRESSURE (P.S.F.)	TOTAL LENGTH OF WALL (FT.)	CONC. TYPE B (C.Y.)
10	27	38	245	2500	45	8.74

DESIGN COMP. BASED ON FOLLOWING DATA:
 MAX. WEIGHT OF EARTH = 100 P.C.F.
 MAX. ANGLE OF REPOSE = 20° W/OUT SURCHARGE.

NOTE: DEADMEN CONSISTING OF A 2' LENGTH OF R.R. TIE FASTENED TO A REINFORCING BAR SHALL BE INSTALLED ON THE 2ND LEVEL TIE FROM TOP OF SLOPE TOE. EACH ANCHOR SHALL BE A MIN. 3' LONG AND 2' BELOW GROUND.

MATERIALS
 R.R. TIES - MIN. 6"x6" PENNY-TREATED
 STEEL REINFORCING RODS 3/4" DIAM
 PLANT MATERIAL - HEDERA HELIX B'OC.



CRIBBING DETAIL

NO SCALE

SITE DATA

EXISTING ZONING: SFA ZONE
 AREA OF TRACT: 1854 AC.
 UNITS @ 10,000 AC: 185.4
 PARKING PROPOSED: 285 SP.
 OPEN SPACE PROPOSED (63.8%): 1183 AC.

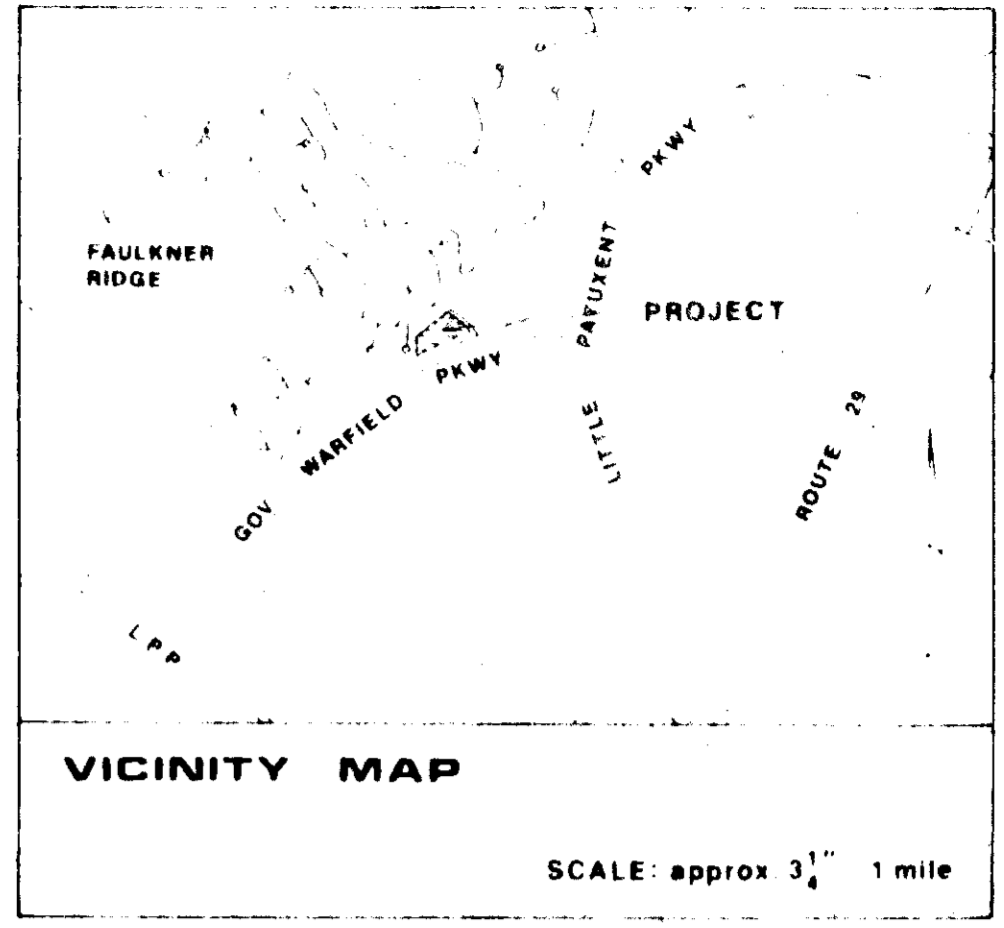
NOTE: LOTS ARE DEFINED LINES ALONG OUTSIDE WALLS AND CENTERLINES OF INTERIOR WALLS

TRAFFIC CONTROL DEVICES, SIGNS & MARKINGS

CODE SYMBOL TYPE DEVICE
 RT-1 (S) SIGN
 RI-1 NO PARKING SIGN
 WI-1 PEDESTRIAN X-ING

INSTALLATION SHALL BE ACCORDING TO "MANUAL OF UNIFORM TRAFFIC DEVICES" 1971ED.

ADJACENT OWNER: HOWARD RESEARCH & DEVELOPMENT CORP. VILLAGE OF CROSS KEYS BALTIMORE, MD.

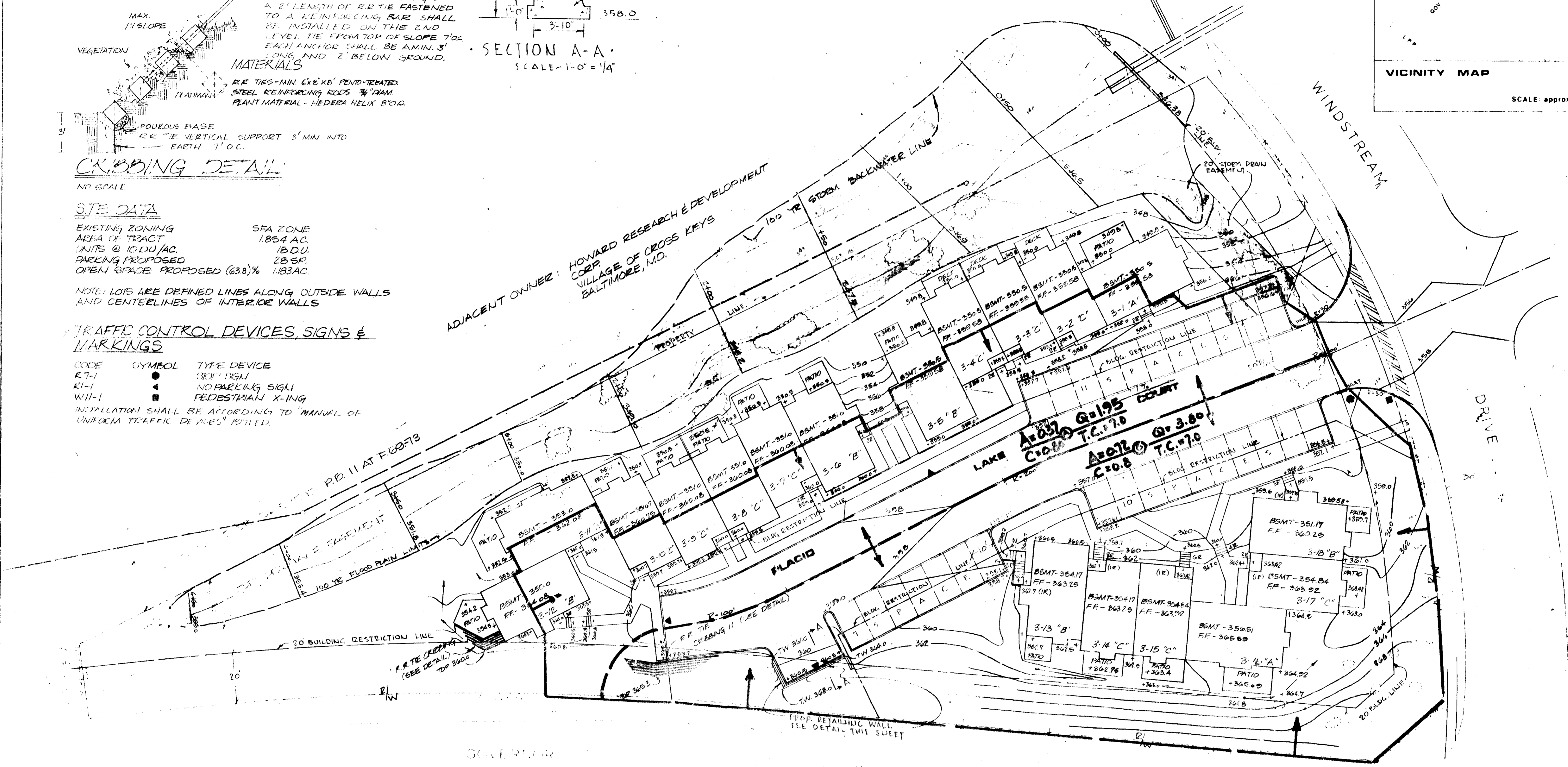


SHEET 1 OF 4

VILLAGE OF WILDE LAKE COLUMBIA MD. SECTION 6 AREA 5 LOT 3 5TH ELECTION DISTRICT HOWARD COUNTY, MD.

IPDS
 100 1100 AVENUE SUITE 200
 LYTTLE ROCK ARKANSAS 72616
 (501) 865-1400
 (501) 865-1401
 PLANNING & DESIGN STUDIO LTD.

SECTION 35 AREA MAP



APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS - HOWARD CO HEALTH DEPARTMENT
 [Signature] DATE 4/15/16
 COUNTY HEALTH OFFICER

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS - HOWARD CO. DEPT. OF PUBLIC WORKS
 [Signature] DATE 3/29/16
 CHIEF BUREAU OF HIGHWAYS

APPROVED, HOWARD COUNTY OFFICE OF PLANNING & ZONING
 [Signature] DATE 4-1-16
 PLANNING DIRECTOR

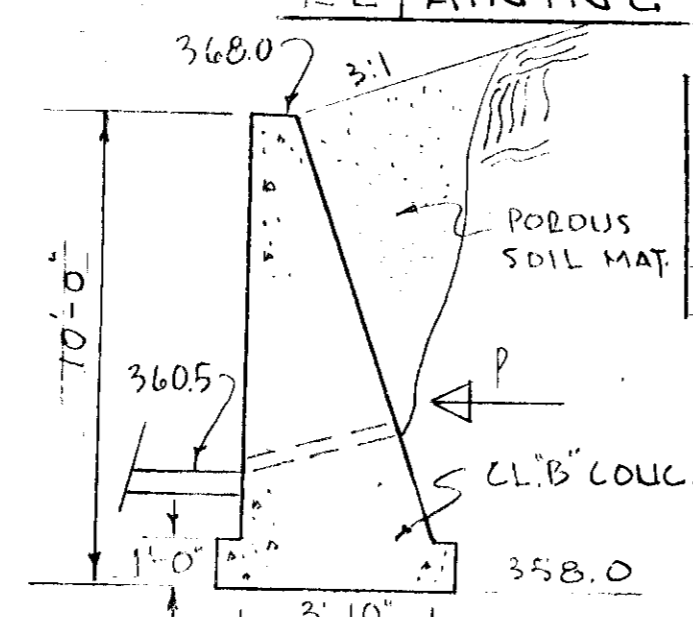
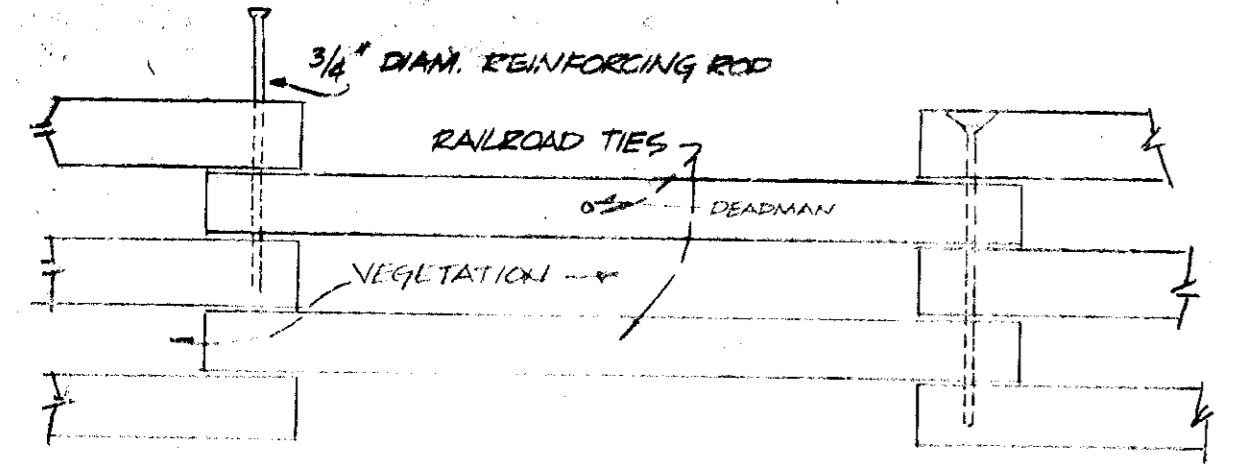
[Signature] DATE 3-29-16
 [Signature] DATE 3/29/16

[Signature] DATE 4/1/16
 COUNTY OFFICE OF PLANNING & ZONING

APPROVED
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 12-23-74
 [Signature]



RETAINING WALL - GRAVITY TYPE

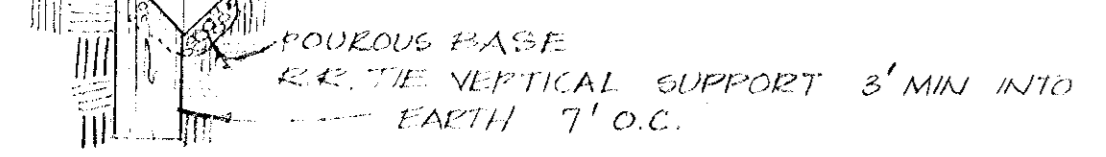


HEIGHT (FT.)	WEIGHT OF SOIL (P.C.F.)	EQUIVALENT UNIT FLUID WT. BEHIND WALL (P.C.F.)	EARTH PRESSURE PER FT. LENGTH WALL (P.S.F.)	TOTAL PRESSURE (P.S.F.)	TOTAL LENGTH OF WALL (FT.)	COULC. TYPE B (C.Y.)
10	27	3.6	245	2300	45	8.74

DESIGN COMP. BASED ON FOLLOWING DATA:
 MAX. WEIGHT OF EARTH C. 100 P.C.F.
 MAX. ANGLE OF REPOSE C. 20° W/O SURCHARGE.

NOTE: DIMENSION CONSISTING OF A 2' LENGTH OF RAIL TIE FASTENED TO A RETAINING WALL SHALL BE INSTALLED ON THE 2ND LEVEL THE TIE SHALL BE 7'0" FROM THE 1ST WALL. EACH ANCHOR SHALL BE MIN. 3' LONG AND 2' BELOW GROUND.

MATERIALS
 R.R. TIES - MIN. 6x8x12' PLYWOOD-TREATED
 STEEL REINFORCING RODS 3/4" DIAM.
 PLANT MATERIAL - HERBERT HELIX 8" O.C.



CRACKING DETAIL
 NO SCALE

SITE DATA

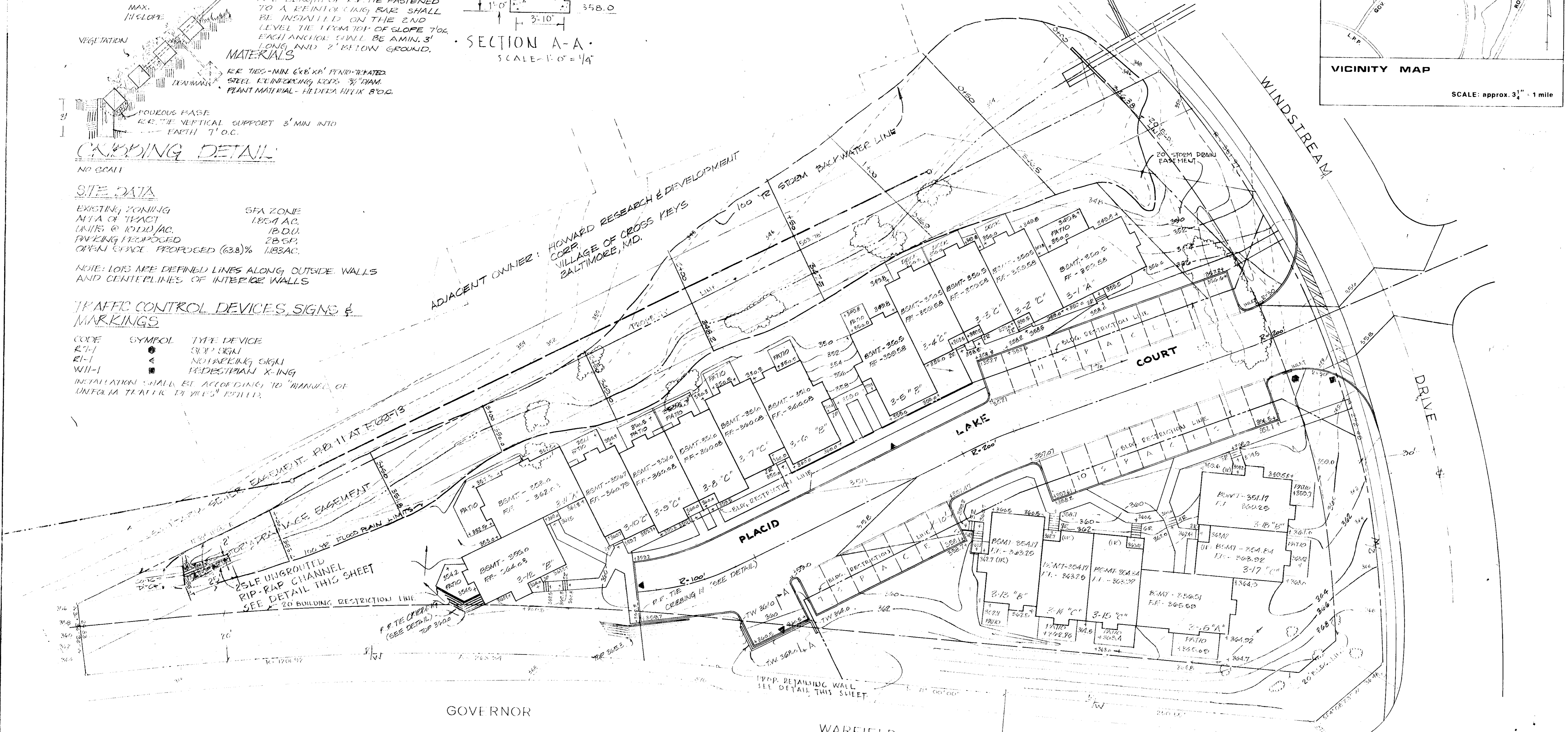
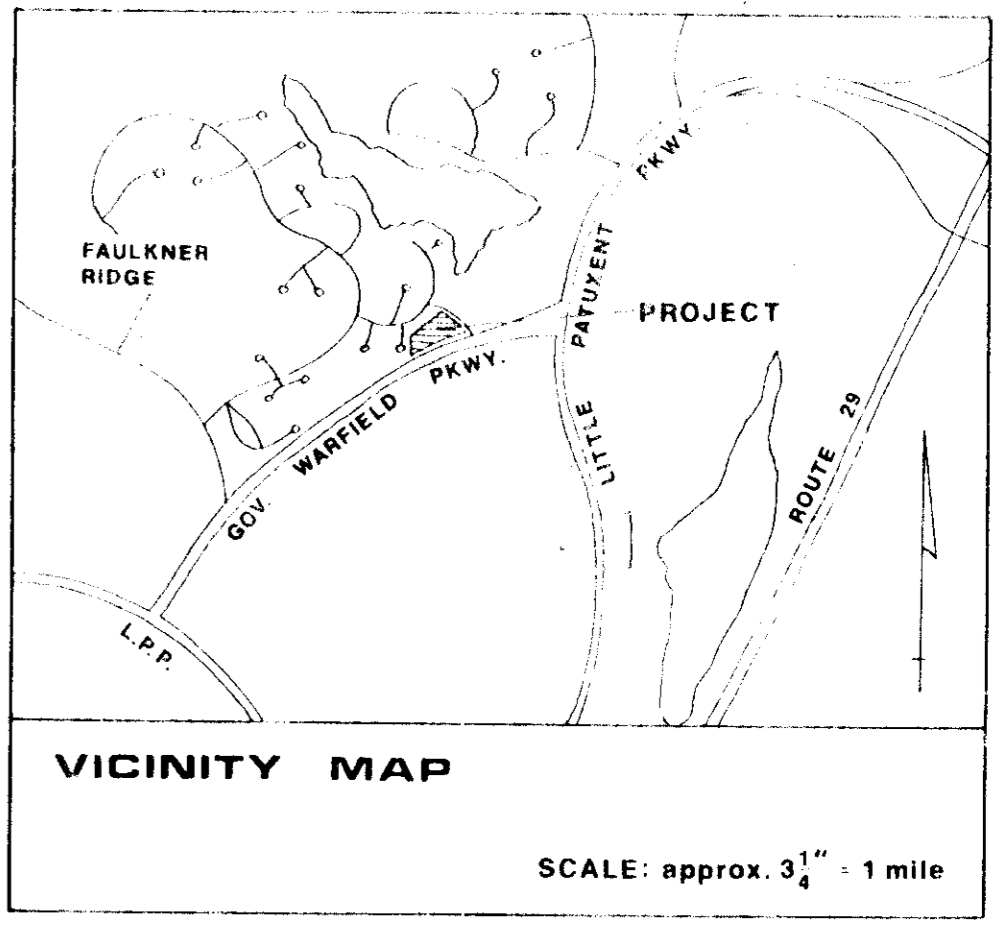
EXISTING ZONING: SFA ZONE
 AREA OF TRACT: 1.854 AC.
 UNITS @ 10'00'/AC: 18,000
 PARKING PROPOSED: 28 SP.
 OPEN SPACE PROPOSED (63.8%): 1,183 AC.

NOTE: LOTS ARE DEFINED LINES ALONG OUTSIDE WALLS AND CENTERLINES OF INTERIOR WALLS

TRAFFIC CONTROL DEVICES, SIGNS & MARKINGS

CODE	SYMBOL	TYPE DEVICE
R-1	▲	SPEED SIGN
R-1-1	▲	NO PARKING SIGN
W-1-1	▲	PEDESTRIAN X-ING

INSTALLATION SHALL BE ACCORDING TO "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 1971.



GOVERNOR

WARFIELD

PARKWAY

APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS - HOWARD CO. HEALTH DEPARTMENT
 J. J. ... 1/5/76

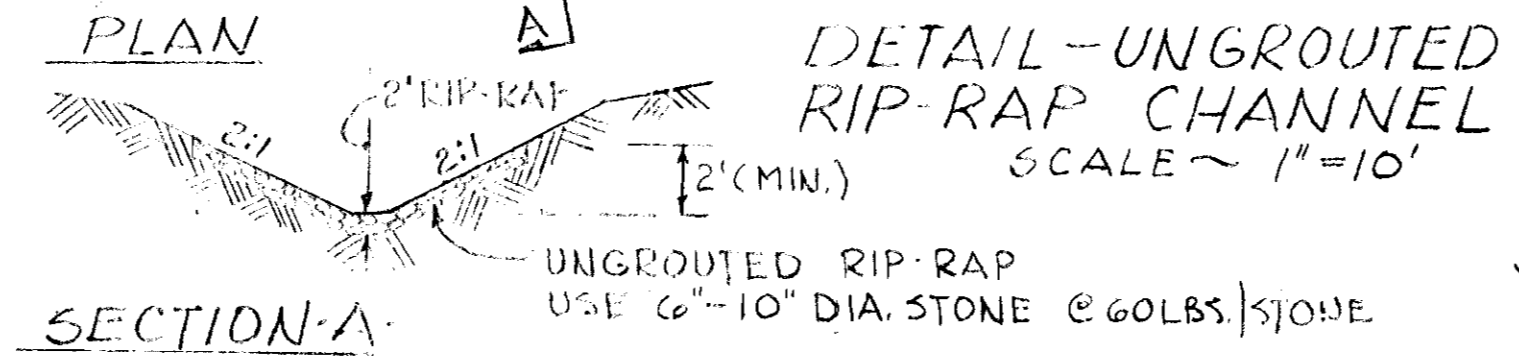
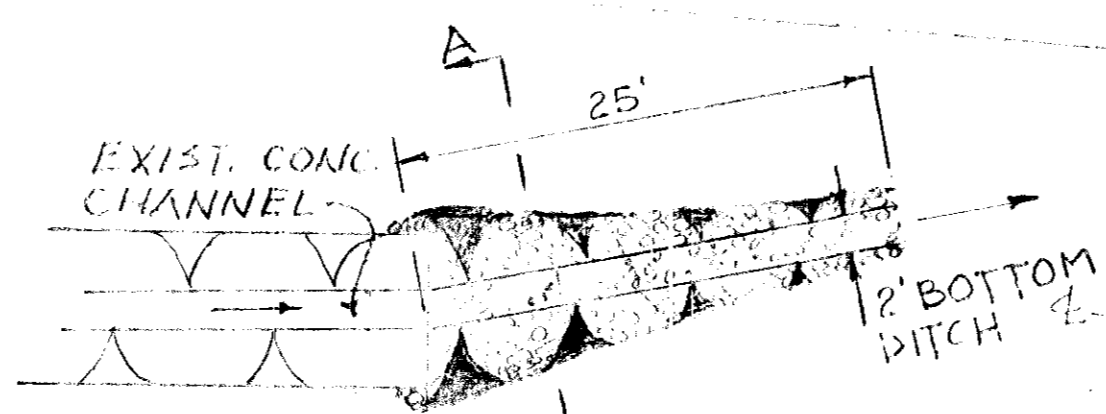
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS - HOWARD CO. DEPT. OF PUBLIC WORKS
 P. J. ... 3-29-76

APPROVED, HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Thomas L. Harris 4-13-76

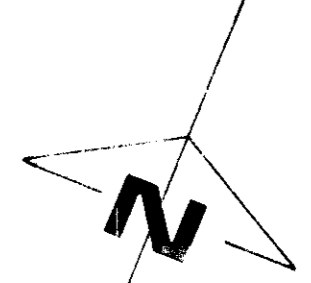
James W. McLeod 3/29/76
 CHIEF, BUREAU OF HIGHWAYS

J. K. ... 4/15/76
 PLANNING DIRECTOR

OWNER:
 HALDO, INC
 9332 ANNAPOLIS RD.
 LANHAM, MARYLAND
 20801



CHANNEL CONSTRUCTION NOTES
 1. REGRADE GROUND AT THE OUT-FALL ABOUT 25' C.F. BEYOND EXIST. CHANNEL TO OBTAIN 2:1 SIDE SLOPE
 2. CONSTRUCT RIP-RAP CHANNEL WITHIN LIMITS AS SHOWN ON DETAIL.
 3. SEED AND MULCH ALL DISTURBED AREAS.



scale 1" = 20'



SHEET 2 OF 4
 VILLAGE OF WILDE LAKE COLUMBIA MD. IPDS
 SECTION 6 AREA 5 LOT 3
 5TH ELECTION DISTRICT HOWARD COUNTY, MD.
 SITE GRADING PLAN
 P.B. No. 3367
 " " 3368

APPROVED FOR PUBLIC WATER & PUBLIC SEWEDAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

Robert M. ... 4/5/76
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

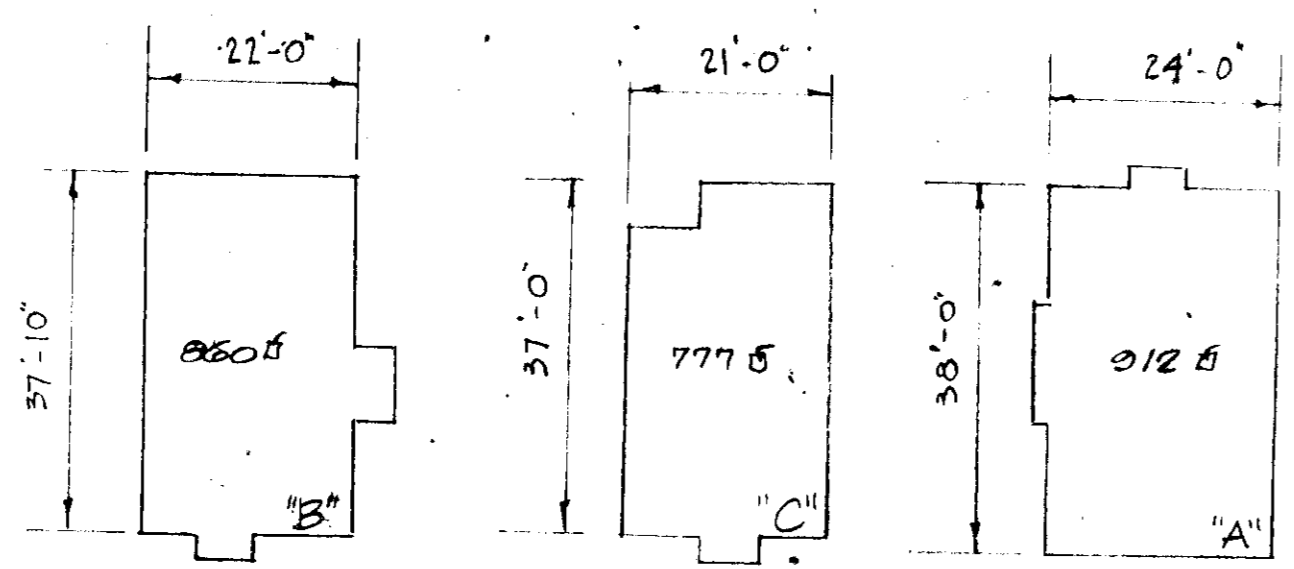
Thomas L. Harris 4-13-76
 DIRECTOR DATE

W. H. ... 4/13/76
 CHIEF DIVISION OF LAND DEVELOPMENT & TRANSPORT PLANNING DATE

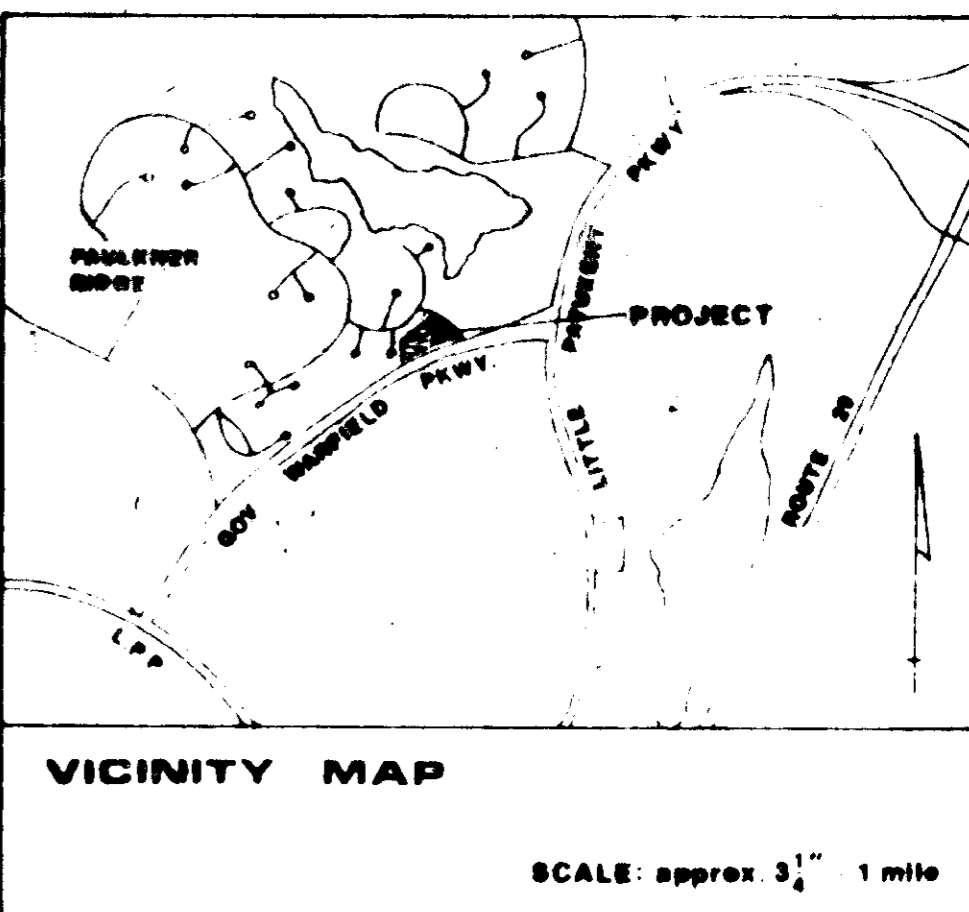
APPROVED FOR PUBLIC WATER, SEWERAGE, STORM DRAINAGE & ROADS SYSTEM. HOWARD COUNTY DEPT. OF PUBLIC WORKS

P. J. ... 3-29-76
 DIRECTOR DATE

Stanley W. ... 3/29/76
 CHIEF BUREAU OF HIGHWAYS DATE



TYPICAL BUILDING SIZE
 SCALE 1" = 20'

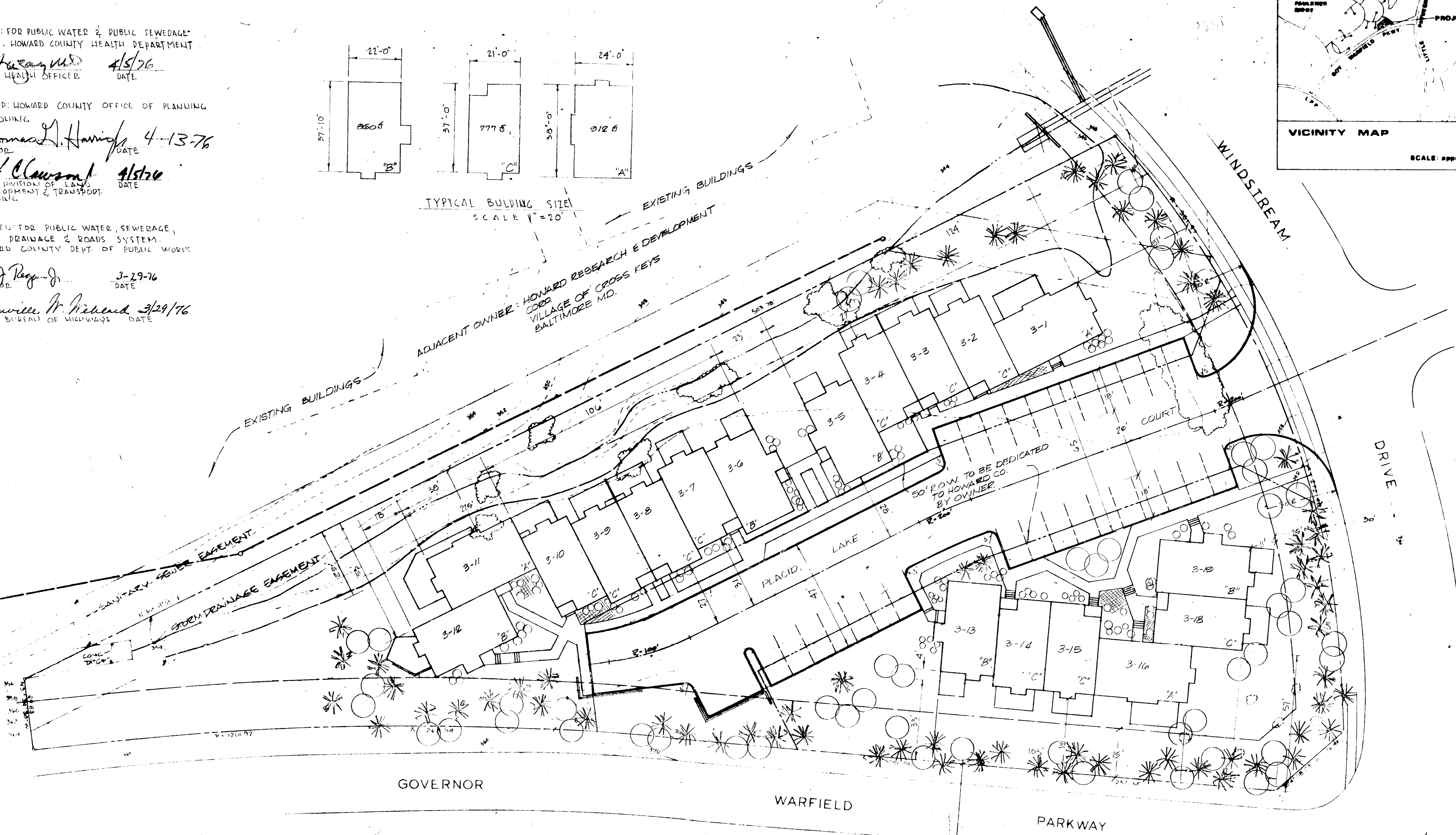


VICINITY MAP

SCALE: approx 3/4" = 1 mile

SHEET 3 OF 4

VILLAGE OF WILDE LAKE COLUMBIA MD.
 AREA 5 SECTION 6 LOT 3
 5TH ELECTION DISTRICT HOWARD COUNTY, MD.
 BUILDING LOCATION PLAN



- | | |
|---|--|
| <p>○ EVERGREEN & DECIDUOUS SHRUBS</p> <ol style="list-style-type: none"> 1. JUNIPERS 2. YEWS 3. OSMANTHUS 4. ABELIA 5. PYRACANTHA 6. VIBURNUM 7. ELEAGUS | <p>○ LARGE DECIDUOUS TREES</p> <ol style="list-style-type: none"> 1. OAKS 2. MAPLES 3. LONDON PLANE TREES |
| <p>● GROUND COVERS</p> | <p>○ LARGE EVERGREEN TREES</p> <ol style="list-style-type: none"> 1. HEMLOCKS 2. BLACK PINES 3. WHITE PINES |

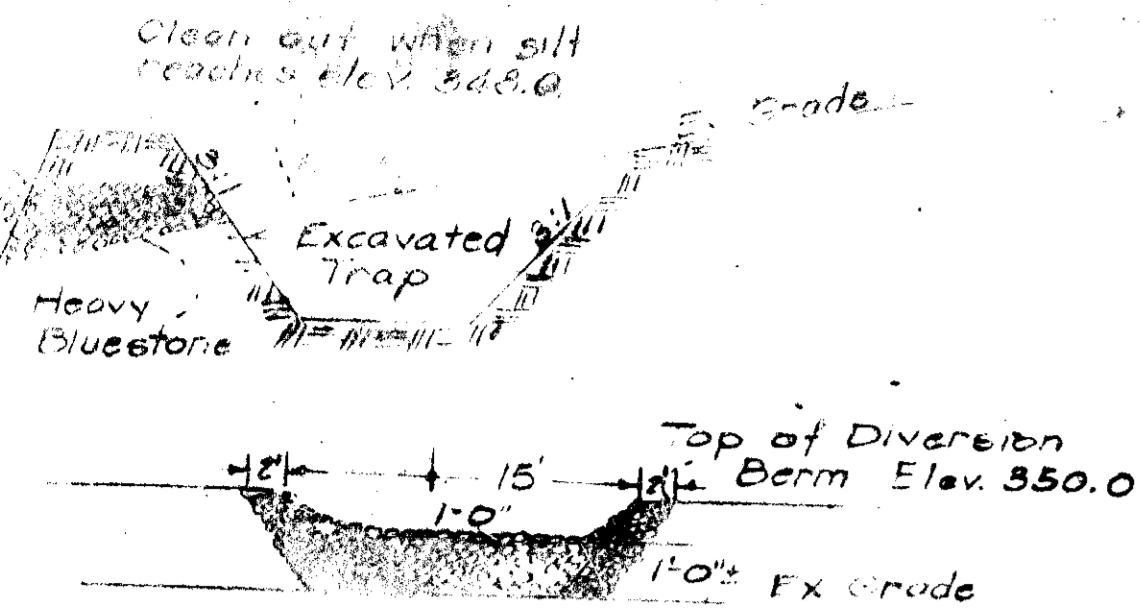
APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 12-23-74



scale 1" = 20'

P.B. No 3387
 " " 3388

EXCAVATED TRAP DETAIL



- NOTES**
- Drawing not to scale
 - Stone to be placed as shown and act as silt filter. Stone to be heavy bluestone of 5/4" road base specifications or equal (2 1/2" gauge stone)
 - Silt must be removed from excavated trap when it reaches elev. 348.0
 - Excavated trap is designed with a capacity for 67 cu. yd. of silt per acre of drainage area
 - Periodic inspection & maintenance must be provided to insure intended purpose is accomplished

NOTE A-1 STABILIZATION

TEMPORARY (See note G for applicable areas)
According to SCS Standards & Specifications for Soil Erosion & Sediment Control in Urbanizing Areas - Sec. 3000

- Site preparation - So as to allow use of conventional seedbed preparation equipment
- Apply:
 - Dolomitic Limestone - 2000 lbs/acre
 - 10-10-10 fertilizer - 500-800 lbs/acre
- Harrow to a depth of 2"
- Seed with rye at rate of 20 lbs/acre / acre except in midsummer then use 35 lbs millet/acre
- Mulch with straw or hay at 2 1/2 tons/acre immediately after seeding & tack with sepiant

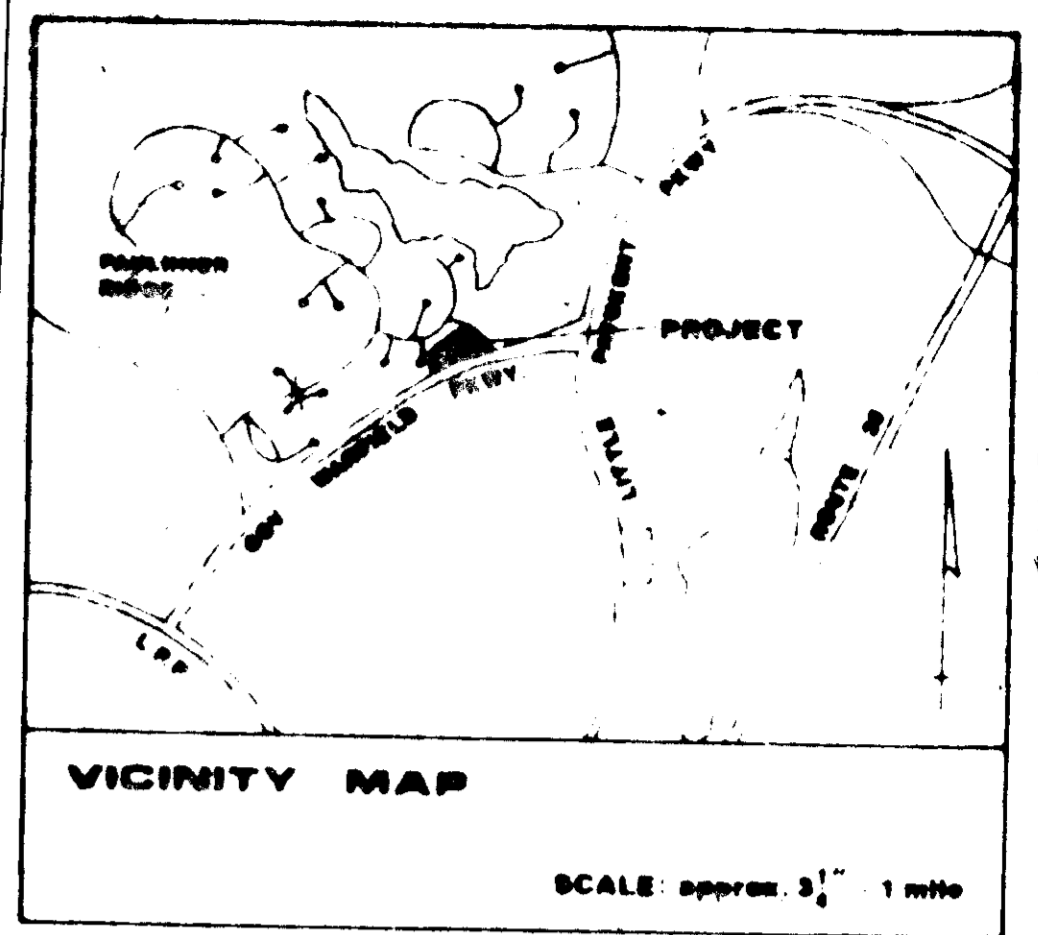
PERMANENT

- According to the above except for:
- Apply in addition to limestone and fertilizer:
 - 0-20-0 at 500-1000 lbs/acre
 - Seed with:
 - certified Merion Kentucky Bluegrass @ 40#/AC
 - common Kentucky Bluegrass @ 40#/AC
 - Pennlawn Red Fescue @ 20#/AC

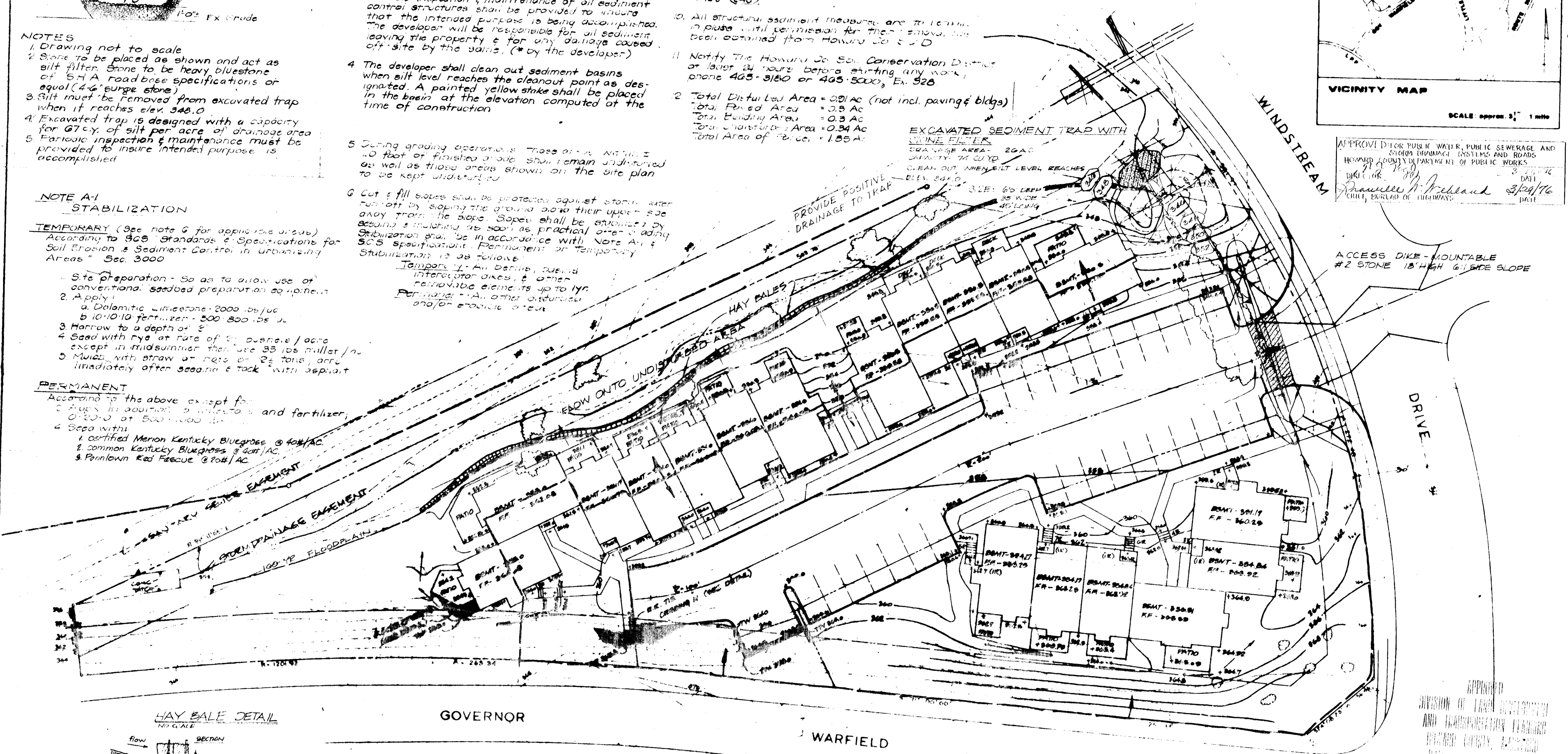
SEDIMENT CONTROL NOTES

- All sediment control measures shall be undertaken in strict accordance with the approved plans and the criteria & specifications approved by the Howard Co S.C.D.
- All sediment control measures are to be adjusted to meet field conditions at the time of construction & to be constructed & stabilized prior to any grading or disturbance of existing surface material of the site.
- Periodic inspection & maintenance of all sediment control structures shall be provided to insure that the intended purpose is being accomplished. The developer will be responsible for all sediment leaving the property & for any damage caused off-site by the silt. (*by the developer)
- The developer shall clean out sediment basins when silt level reaches the cleanout point as designated. A painted yellow stake shall be placed in the basin at the elevation computed at the time of construction.
- During grading operations those areas within 10 feet of finished grade shall remain undisturbed as well as those areas shown on the site plan to be kept undisturbed.
- Cut & fill slopes shall be protected against storm water runoff by sloping the ground to their upper side away from the slope. Slopes shall be stabilized by seeding & mulching as soon as practical after grading. Stabilization shall be in accordance with Note A-1 & SCS specifications. Permanent or Temporary Stabilization is as follows:
 - Temporary - An debris, brush, interlocking dikes, & other removable elements up to 1yr.
 - Permanent - All other structures and/or erosion control.
- Poly filter - x shall be installed behind all RR tie cribbing to hold soil in place.
- All storm drain inlets shall be closed during construction, or storm water shall be directed into sediment basins.
- All elevations on sediment structures shown thru (40).
- All structural sediment measures are to remain in place until permission for their removal has been obtained from Howard Co S.C.D.
- Notify The Howard Co Soil Conservation District or their 24 hour before starting any work, phone 405-3150 or 405-5000, Ex. 320.

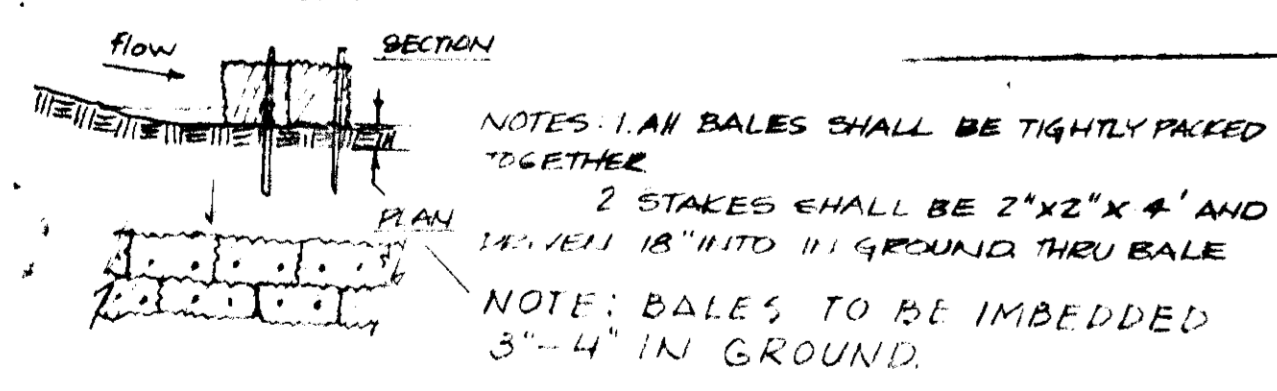
APPROVE FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY HEALTH OFFICER
APPROVE HOWARD COUNTY DEPT. OF PLANNING AND ZONING
APPROVE FOR LAND DEVELOPMENT AND SUBDIVISION PLANNING



APPROVE FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 3/15/76
Signature: Lawrence H. Kelland
CHIEF, BUREAU OF HIGHWAYS



HAY BALE DETAIL



- NOTES:**
1. HAY BALES SHALL BE TIGHTLY PACKED TOGETHER
 2. STAKES SHALL BE 2"x2"x4" AND 1/4" DIA. 18" INTO GROUND THRU BALE
- NOTE:** BALES TO BE IMBEDDED 3"-4" IN GROUND.

SCHEDULE OF CONSTRUCTION

DESCRIPTION	BEGIN	END
1. Installation and stabilization of all sediment control structures on site		
2. Grading of street		
3. On site grading & excavation for buildings		
4. Start construction of buildings		
5. Installation of utilities		
6. Installation of curb & gutter, & sidewalks		
7. Installation of base course paving		
8. As exterior construction work is completed on buildings, yard area shall be fine graded & permanently stabilized slopes over 3:1 are to be sodded		
9. Complete building construction		
10. Apply surface course to streets		
11. Remove sediment control structures & complete landscaping		

DEVELOPERS & ENGINEERS CERTIFICATIONS

I certify that all development and/or construction will be done according to this plan of development & plan for erosion & sediment control, and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviations from this plan will not be made unless authorized by the Howard S.C.D.

Signature of Developer: *Walter E. Halle* Date: 3/15/76

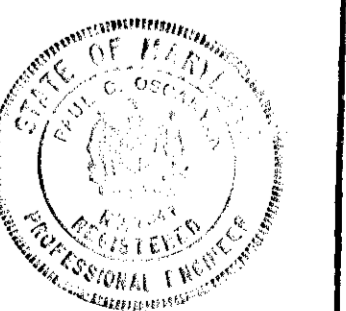
I certify that this plan for erosion and sediment control represents a practical & workable plan, based on my personal knowledge of site conditions and that it was prepared in accordance with the requirements of the Howard S.C.D.

Signature of Engineer: *Walter E. Halle* Date: 3/15/76
Registered Professional Engineer

12-23-74



Scale 1" = 20'



VILLAGE OF WILDE LAKE COLUMBIA MD.
AREA 6 SECTION 8 LOT 3
5TH ELECTION DISTRICT HOWARD COUNTY, MD.