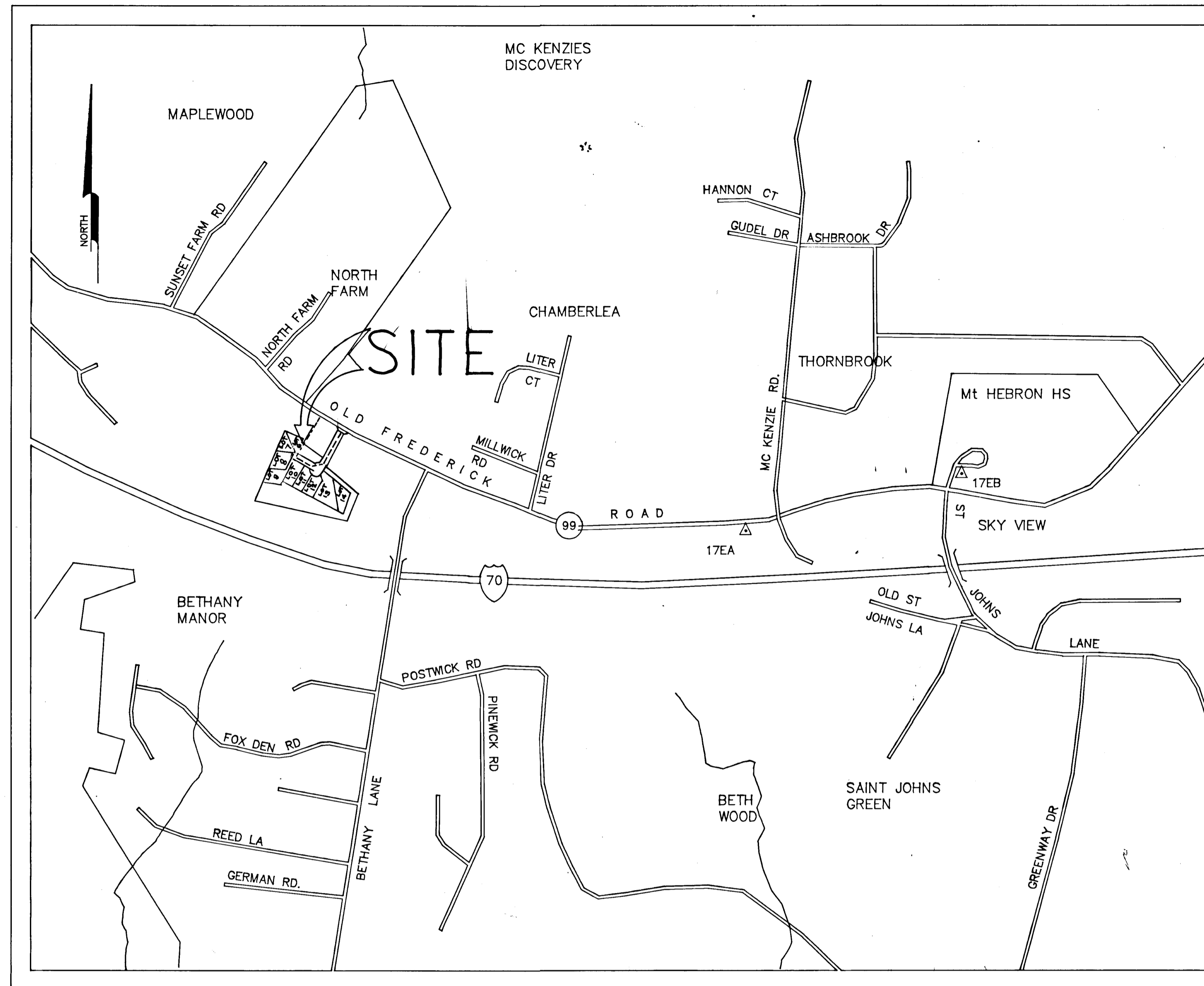


GENERAL NOTE

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATION OF THE HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1870 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORKS.
- PROJECT BACKGROUND :
 - TAX MAP 17, PARCEL 645, LIBER 804, FOLIO 15
 - TOTAL AREA OF SUBDIVISION = 7.255 ACRES
 - NUMBER OF LOTS PROPOSED = 11 BUILDABLE, 2 OPEN SPACE
 - SKETCH PLAN WAS APPROVED ON SEPTEMBER 3, 1992 UNDER S-97-13
 - PRELIMINARY PLAN WAS APPROVED ON SEPTEMBER 3, 1992 UNDER P-93-05
 - THIS PLAN IS SUBJECT TO WP-93-14 APPROVED ON SEPTEMBER 11, 1992 WHICH WAIVED THE REQUIREMENTS OF SECTION 16.115(b) (2) TO ALLOW 15' FOOT FRONTAGE FOR LOTS 7, 8, & 9.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD). ALL STREETS AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
- BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY BOENDER ASSOCIATES, INC. ON DECEMBER 1992.
- HORIZONTAL AND VERTICAL DATUM ARE BASED ON MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY CONTROL STA. (NAD 83) 17EA AND 17EB.
- LIGHT POLES AND FIXTURES SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROAD AND BRIDGES.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED. THE DRAINAGE AREA IS LITTLE PATUXENT.
- A RETENTION POND IS PROPOSED AND CONTROL ALL LOTS.
- THERE ARE NO WETLANDS WITHIN THE SITE.
- EXISTING UTILITIES ARE BASED ON HOWARD COUNTY AS BUILT PLANS AND THE TOPOGRAPHIC SURVEY BY BOENDER ASSOCIATES INC.

GENERAL NOTES WITHIN COLONIAL PIPELINE CONSTRUCTION

- NOTIFY MR. R.R. ZEPP (410/549-4101) AT LEAST (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION, SUBSEQUENT MAINTENANCE, OR REPAIR, SO THAT HE MAY PROVIDE A REPRESENTATIVE AT THE SITE.
- NO MECHANIZED DITCHING OR EXCAVATION SHALL BE ALLOWED WITHIN FIVE (5) FEET OF THE EXTREMITIES OF THE 1 - 6", 1 - 8" & 2 - 12" PIPELINES. NO EXCAVATION OR CONSTRUCTION IS PERMITTED OVER COLONIAL'S PIPELINES OR WITHIN ITS EASEMENTS WITHOUT A COLONIAL REPRESENTATIVE BEING PRESENT. SUB-GRADING, GRADING, & PLACEMENT OF FILL OVER THE PIPELINES WILL REQUIRE THE APPROVAL OF COLONIAL'S FIELD REPRESENTATIVE AS TO METHOD & EXTENT.
- FULL ACCESS TO THE PIPELINES MUST BE MAINTAINED AT ALL TIMES. STOCKPILING OF SPOIL-AGE OR TOP SOIL OVER THE PIPELINES IS NOT PERMITTED, UNLESS OTHERWISE APPROVED BY COLONIAL'S REPRESENTATIVE.
- UNDERGROUND UTILITIES, I.E., STORM DRAINS, WATERLINES, ELECTRIC AND TELEPHONE CABLES, MAY CROSS THE EASEMENT PROVIDED THEY MAINTAIN A MINIMUM VERTICAL CLEARANCE OF TWO (2) OVER OR UNDER COLONIAL'S 1 - 6", 1 - 8" & 2 - 12" PIPELINES AND CROSS AT AN NEAR A PERPENDICULAR ANGLE AS PRACTICAL. ALL UTILITY CROSSINGS OF COLONIAL'S PIPELINES & RESPECTIVE EASEMENTS MUST BE CONSTRUCTED OF GALVANIZED STEEL, DUCTILE IRON, OR CONCRETE ENCASED PVC FOR THE ENTIRE WIDTH OF THE RIGHT-OF-WAY BEING CROSSED.
- BLASTING WITHIN THE IMMEDIATE VICINITY OF COLONIAL'S RIGHT-OF-WAY SHALL BE CONDITIONALLY ALLOWED. BLASTING ON COLONIAL'S RIGHT-OF-WAY SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF A COLONIAL REPRESENTATIVE AS TO TIME AND METHOD WITH THE PRIOR APPROVAL OF COLONIAL'S REGION ENGINEERING MANAGER.
- ANY EROSION CONTROL MEASURES REQUIRED FOR THE DEVELOPMENT INCLUDING TEMPORARY DIVERSION DITCHES, SILT FENCES, GRAVE, OUTLETS AND EMERGENCY SPILLWAYS THAT MAY INFLUENCE OR MAY CONTRIBUTE TO THE DEGRADATION OF COLONIAL'S RIGHT-OF-WAY WILL REQUIRE THE APPROVAL OF COLONIAL'S FIELD REPRESENTATIVE AS TO EQUIPMENT AND METHOD. UNDER NO CIRCUMSTANCES SHALL WATER BE IMPOUNDED ON THE PIPELINE RIGHT-OF-WAY.
- UPON REQUEST BY THE ENCRUCHING PARTY, LANDOWNER OR THEIR AGENTS, COLONIAL WILL DETERMINE THE APPROXIMATE LOCATION OF ITS PIPELINES AND RIGHT-OF-WAY LIMITS; HOWEVER, IN DOING SO, COLONIAL MAKES NO WARRANTY AS TO THE ACCURACY OF THE LOCATIONS AND MEASUREMENTS GIVEN. COLONIAL ALSO CANNOT PROVIDE THE ASSURANCE THAT ITS PERMANENT LINE MARKERS ARE POSITIONED DIRECTLY OVER ITS PIPELINES.
- FIELD LOCATION OF THE EXISTING 1 - 6", 1 - 8" & 2 - 12" PIPELINES IS REQUIRED PRIOR TO ANY WORK WITHIN COLONIAL'S RIGHT-OF-WAY. TEST PITS ARE REQUIRED TO DETERMINE THE EXACT LOCATION AND ELEVATION OF THE LINES, ESPECIALLY IN AREAS OF PLANNED UTILITIES, ROADWAYS AND PARKING LOTS. NOTIFY MR. R.R. ZEPP (410-549-4101) AT LEAST 2 WORKING DAYS IN ADVANCE, AND HE WILL ASSIST YOU IN LOCATING THE PIPELINES IN THE FIELD, AND WILL WITNESS ALL TEST PITTING.
- ORIGINAL VEGETATION ON COLONIAL'S EASEMENT SHALL NOT BE DISTURBED EXCEPT IN AREAS OF APPROVED CONSTRUCTION AND APPROVED EQUIPMENT CROSSINGS. HIGHLY VISIBLE PLASTIC FENCE OR OTHER APPROVED TEMPORARY BARRICADE MAY BE REQUIRED AT CONTRACTOR'S EXPENSE ALONG COLONIAL'S EASEMENT BOUNDARIES IF COLONIAL'S REPRESENTATIVE DEEMS IT NECESSARY TO ENSURE THE CONTRACTOR TRAFFIC DOES NOT TRAVEL OVER THE PIPELINES.
- PERMANENT STRUCTURES ARE NOT PERMITTED ON THE RIGHT-OF-WAY. MANHOLES, JUNCTION BOXES, VALVE BOXES, FIRE HYDRANTS, SERVICE METERS, STORM DRAIN INLETS, AND UTILITY POLES ARE CONSIDERED PERMANENT STRUCTURES. NO FENCES OR TEMPORARY STRUCTURES SHALL BE ALLOWED IN THE RIGHT-OF-WAY WITHOUT THE EXPRESS APPROVAL OF COLONIAL'S REPRESENTATIVE. TEMPORARY STRUCTURES INCLUDE SUCH ITEM AS SIGNS, TRAILERS, TEMPORARY POWER POLES, ETC.
- TEMPORARY EQUIPMENT CROSSINGS OVER THE PIPELINES ARE PERMITTED WITH SIX (6) VERTICAL FEET OF COVER OVER THE PIPELINES AT SELECTED LOCATIONS AS APPROVED BY COLONIAL'S FIELD REPRESENTATIVE. DEPTH OF PIPE AS DETERMINED BY TEST HOLES WILL DETERMINE AMOUNT OF TEMPORARY FILL REQUIRED. COLORED SHEETS OF PLASTIC SHALL BE PLACED UNDER THE TEMPORARY FILL AT ORIGINAL GRADE SO THAT ORIGINAL GRADE WILL NOT BE DISTURBED WHEN TEMPORARY FILL IS REMOVED. NO EQUIPMENT OR VEHICLES MAY BE PARKED OVER THE PIPELINES.
- THE ENCRUCHING PARTY ACKNOWLEDGES THAT COLONIAL'S PIPELINES HAVE IMPRESSED ELECTRICAL CURRENT FOR THE PROTECTION OF THIS STEEL. ANY LOSS OF THE PROTECTION CAUSED BY THE ENCRUCHING PARTY WILL BE CORRECTED BY COLONIAL PERSONNEL ONLY. THE COST TO CORRECT THIS DAMAGE WILL BE PAID BY THE ENCRUCHING PARTY.
- ONLY LOW GROWING, ORNAMENTAL TYPE SHRUBBERY OR TREES WITH A MAXIMUM EXPECTED EXPECTED HEIGHT OF FOUR (4) FEET SHALL BE ALLOWED WITHIN THE RIGHT OF WAY. IN ADDITION, NO PIPELINE MARKER SHALL BE OBLSCURED FROM PUBLIC VIEW.
- REMOVAL OR RELOCATION OF COLONIAL'S PIPELINE MARKERS SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF A COLONIAL REPRESENTATIVE. PIPELINE MARKERS MADE UNUSABLE OR DAMAGED SHALL BE REPAIRED OR REPLACED AT THE ENCRUCHING PARTY'S EXPENSE.
- PARALLEL OCCUPANCY OF THE PIPELINE'S EASEMENT WITH ROAD RIGHT OF WAY OR UTILITIES IS NOT PERMITTED. CROSSINGS SHALL BE AS NEAR AS A PERPENDICULAR ANGLE TO THE EASEMENT AS PRACTICAL.
- ALL PROPOSED ROADWAYS AND PARKING AREAS MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 4.5 FEET FROM TOP OF PIPE TO TOP OF FINISHED ROAD SURFACE AND 3 FEET MINIMUM VERTICAL CLEARANCE IN OPEN DRAINAGE OR ROAD DITCHES. IF THESE CLEARANCES CANNOT BE MAINTAINED, CONCRETE PROTECTIVE SLABS PER COLONIAL ATTACHED DRAWINGS SHALL BE INSTALLED TO PROTECT THE PIPELINES.
- BURNING OF TRASH, BRUSH, DEBRIS, ETC. SHALL NOT BE PERMITTED WITHIN COLONIAL'S RIGHT OF WAY.
- SHOULD ANY DAMAGE OCCUR TO THE HEREIN PERMITTED ENCRUCHMENT, AS A RESULT OF COLONIAL EXERCISING ANY OF ITS RIGHTS AT ANY TIME, COLONIAL WILL NOT BE RESPONSIBLE FOR SAID DAMAGES; AND ANY EXPENSE OR MONETARY COST INVOLVED IN THE REPAIR OF SAID DAMAGES WILL BE BORNE BY OWNERS OF SAID DAMAGED ENCRUCHMENT.
- WILDER BUILDING CORP. AGREES TO DEFEND AND HOLD COLONIAL PIPELINE COMPANY HARMLESS FROM ALL LOSS, COST OR OTHER EXPENSE, INCLUDING PERSONAL PROPERTY AND BODILY INJURIES, WHETHER OCCURRING TO IT OR TO THIRD PARTIES, WHICH ARE PROXIMATELY CAUSED BY OR ARISING FROM THE INSTALLATION, MAINTANANCE, OR REPAIR OF THE HEREIN PERMITTED WORKS, WITH THE EXCEPTION OF CLAIMS DUE TO THE SOLE NEGLIGENCE OF COLONIAL.



LOCATION MAP
SCALE : 1" = 600'

BETHANY VILLAGE SECT. 3
LOTS 5 thru 17
ROAD CONSTRUCTION DRAWING
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Cima Szymanski 1/24/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John C. ... 1/16/94
CHIEF, LAND DEVELOPMENT DIVISION DATE

Robert M. ... 1-5-94
CHIEF, BUREAU OF HIGHWAYS DATE

Donald ... 1/12/94
CHIEF, BUREAU OF ENGINEERING DATE

NO	DATE	DESCRIPTION	BY
2	8-20-94	ADD STORMDRAIN I-4 TO M-3	FCC

DES	DRN	CHK	DATE	BY	NO.	REVISION	DATE
MLL	AVG	MLL	11-9-92				

Woria Engineering Inc.
CONSULTING ENGINEERS-LAND PLANNERS-SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400



OWNER :
WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

DEVELOPER :
WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

COVER SHEET
BETHANY VILLAGE SECT. 3
LOTS 5 THRU 17
TAX MAP 17 PARCEL 645
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 7

581

PLANT SCHEDULE					
SYMBOLS	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
⊛	ROSE TRAIL	ACER RUBRUM	RED MAPLE	15	2 1/2 CAL.
⊕	BERM	PINUS STROBUS	WHITE PINE	49	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Olga Strumans
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE: 1/24/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John D'Amico
 CHIEF, LAND DEVELOPMENT DIVISION DATE: 1/14/94

Charles M. Smith
 CHIEF, BUREAU OF HIGHWAYS DATE: 1-5-94

Donald J. Soren
 CHIEF, BUREAU OF ENGINEERING DATE: 1/16/94

NO.	DATE	DESCRIPTION	BY
2	8/29/90	ADD STORMDRAIN I-4 TO M-3	F.C.C.

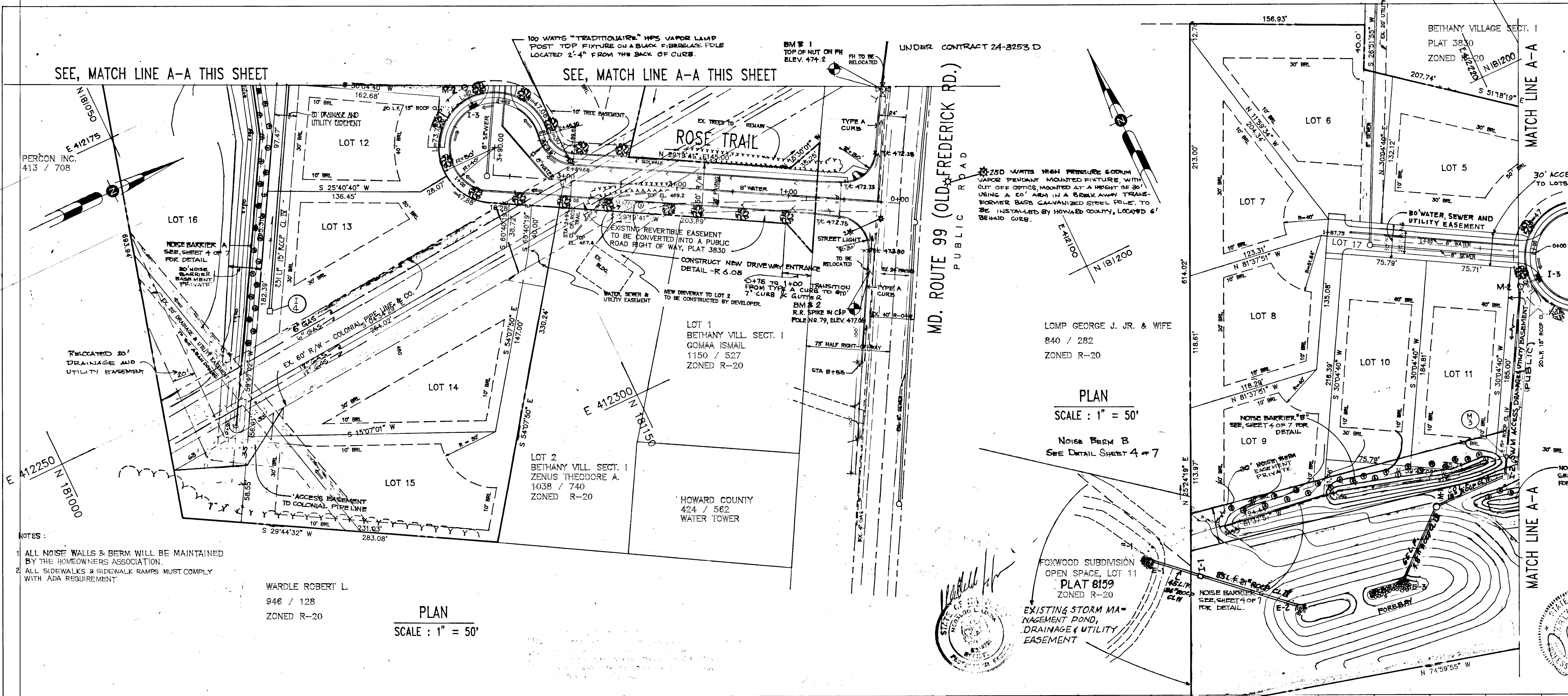
PLAN AND PROFILE ROSE TRAIL

BETHANY VILLAGE SECT. 3, LOTS 5 THRU 17

OWNER/DEVELOPER:
 WILDER BUILDING CORPORATION
 1514 NEAR THICKET LANE
 STEVENSON, MD. 21153

SCALE: AS SHOWN DATE: 12-19-1992 SHEET 2 OF 7
 DESIGNED: MLL DRAWN: GUS CHECKED: MLL

Voria Engineering Inc.
 CONSULTING ENGINEERS-LAND PLANNERS-SURVEYORS
 3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
 410-485-0400

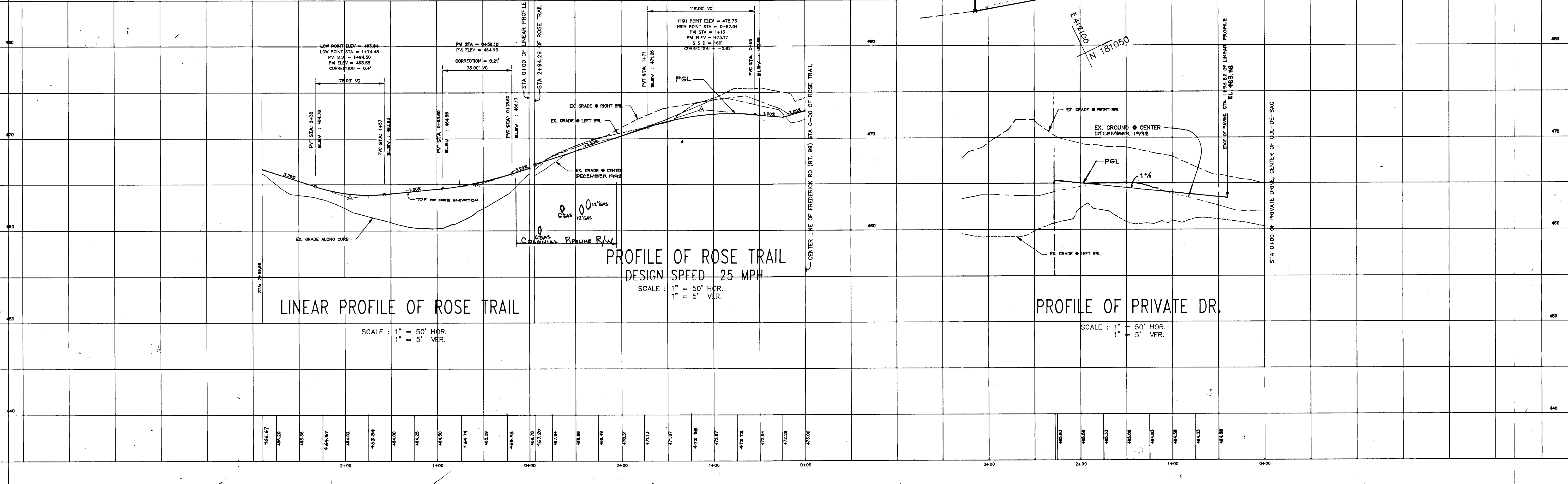


NOTES:
 1. ALL NOISE WALLS & BERM WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
 2. ALL SIDEWALKS & SIDEWALK RAMP MUST COMPLY WITH ADA REQUIREMENT.

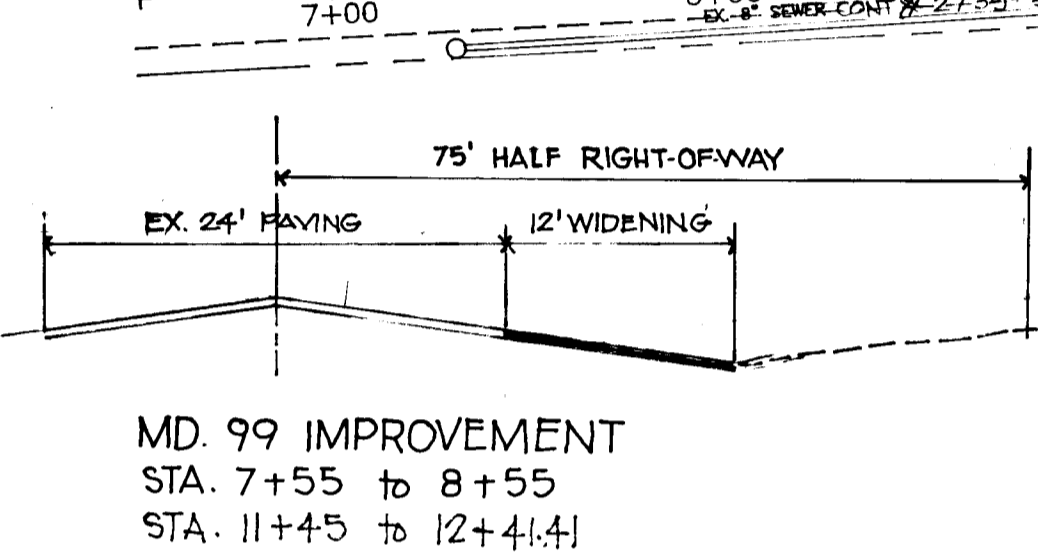
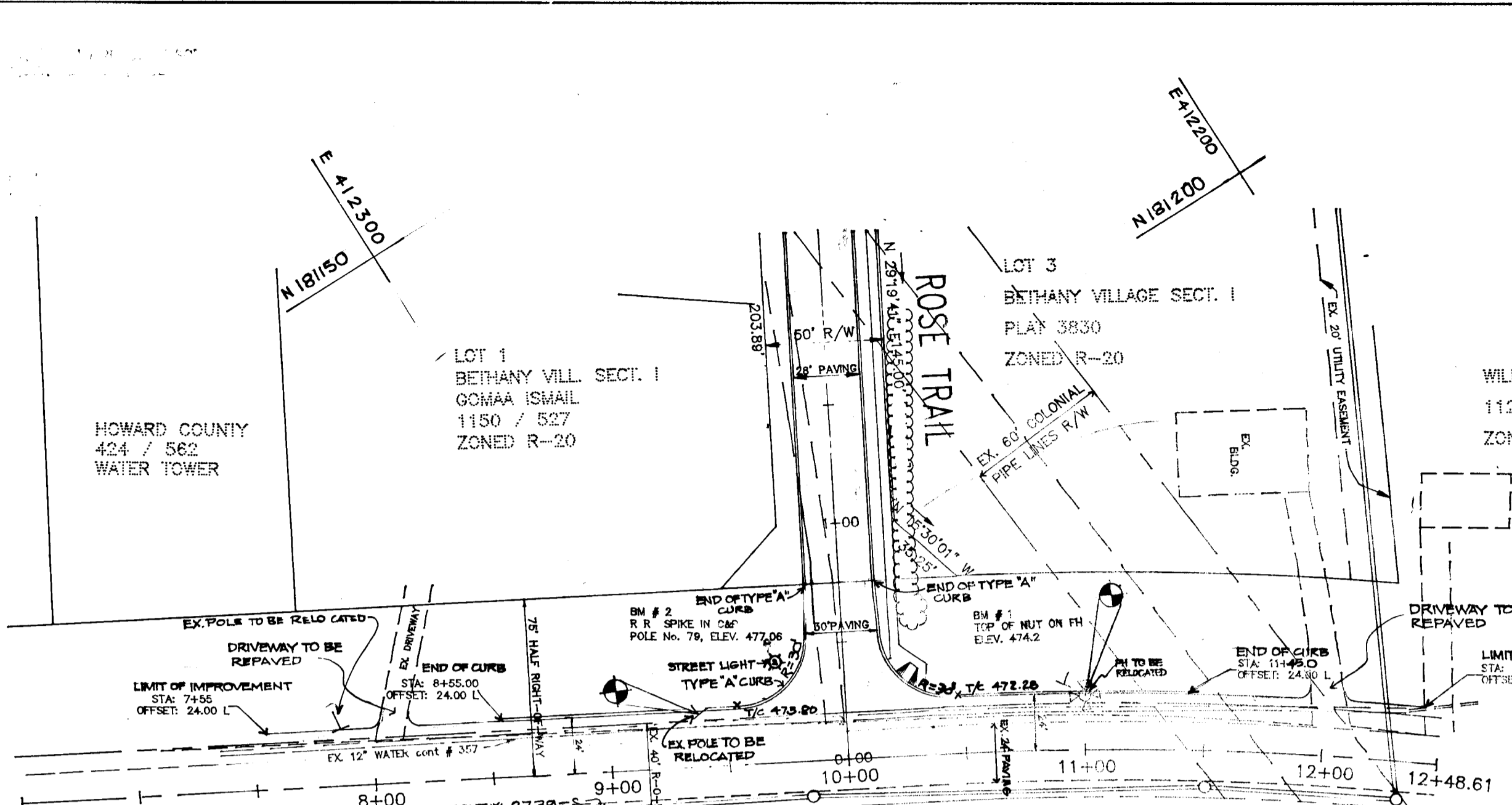
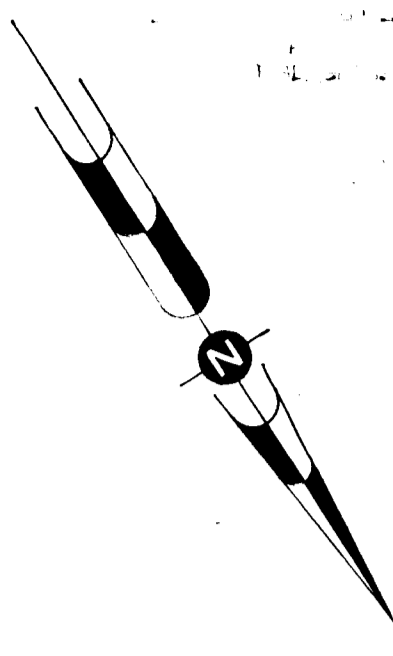
WARDLE ROBERT L.
 946 / 128
 ZONED R-20

PLAN
 SCALE: 1" = 50'

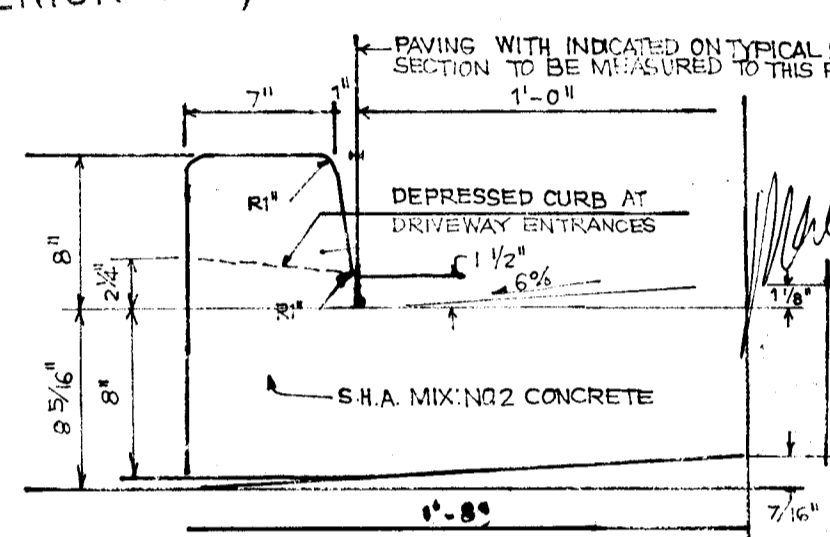
PLAN
 SCALE: 1" = 50'
 NOISE BERM B
 SEE DETAIL SHEET 4 OF 7



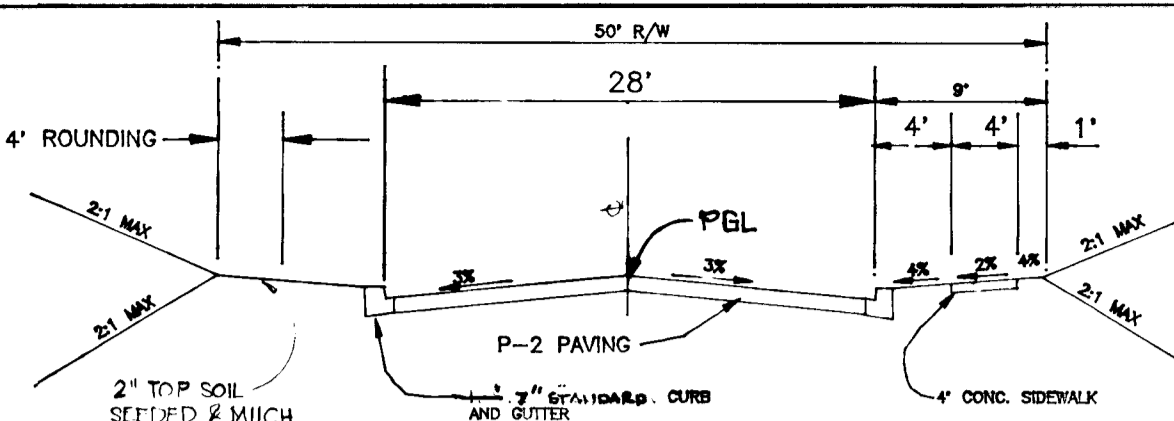
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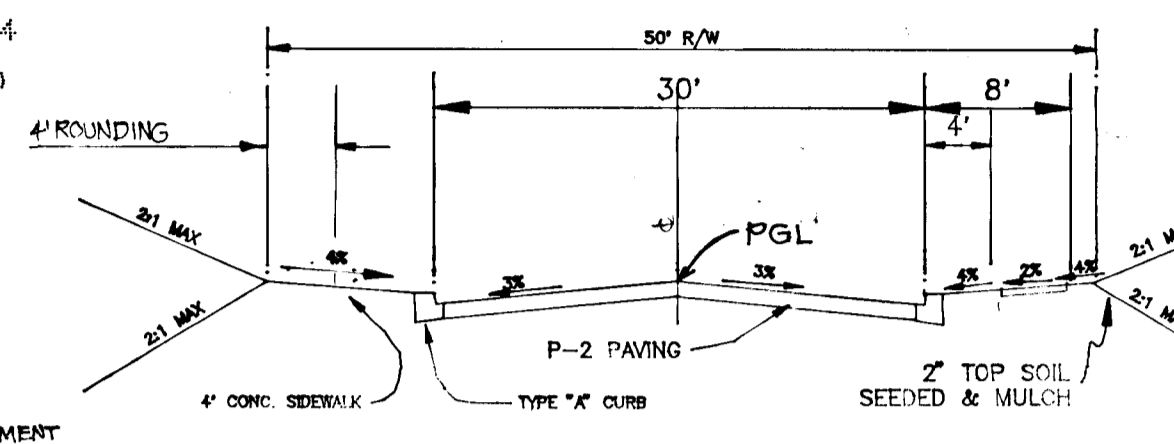
MD. 99 IMPROVEMENT
STA. 7+55 to 8+55
STA. 11+45 to 12+41.41



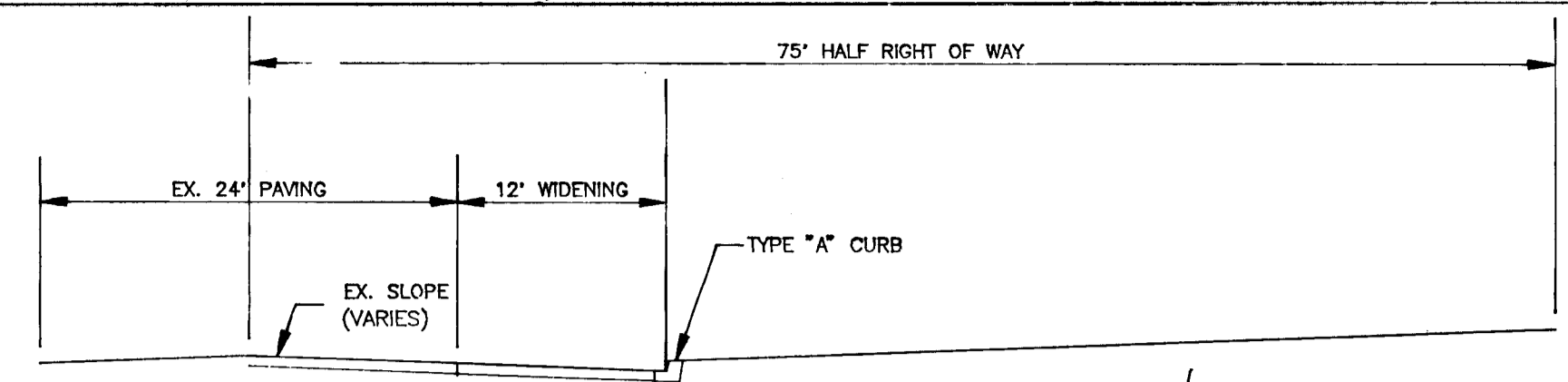
STD. TYPE "A" CONC. COMBINATION CURB & GUTTER
NOT TO SCALE



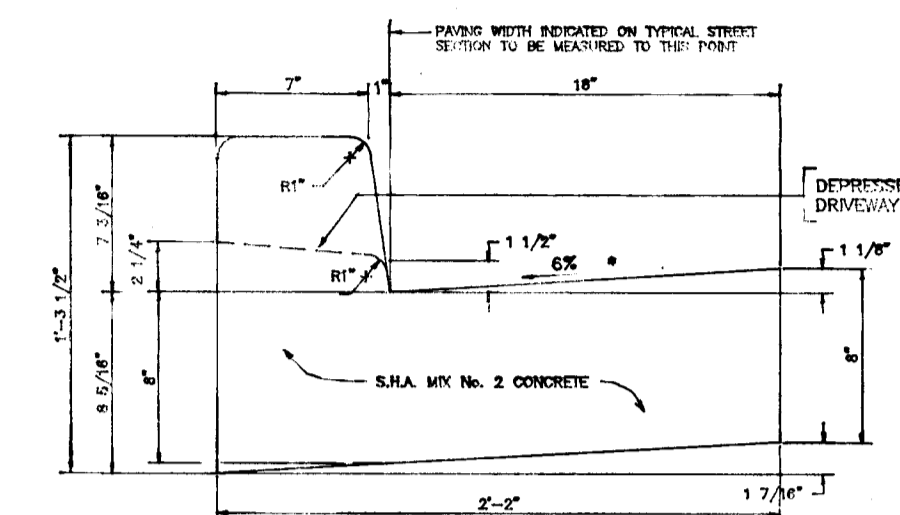
ROSE TRAIL
DESIGN SPEED : 30 MPH
STA. 1+00 TO 2+94.29
TYPICAL SECTION
NOT TO SCALE



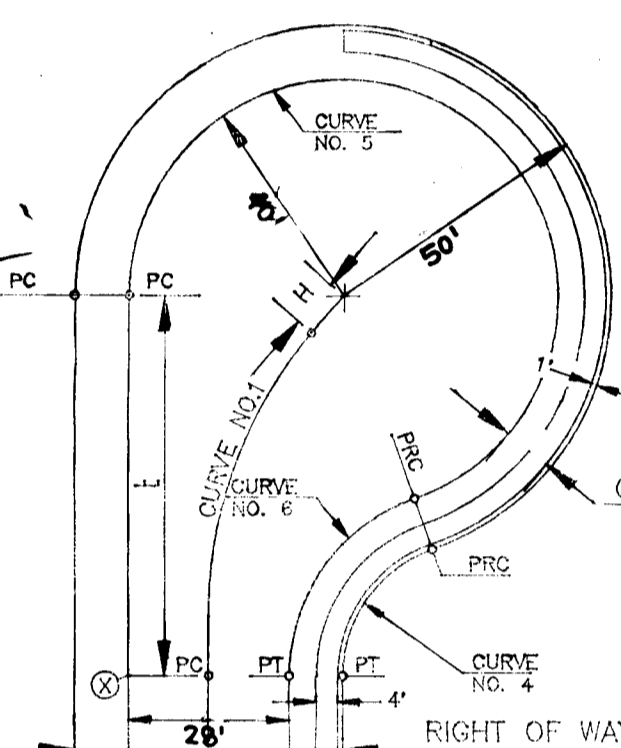
ROSE TRAIL
STA. 0+00 TO 0+75
TYPICAL SECTION
NOT TO SCALE



CROSS-SECTION OF IMPROVEMENT
NOT TO SCALE
MD. ROUTE 99 STA 8+55 TO STA 11+45



STD. 7" CONC. CURB & GUTTER
NOT TO SCALE



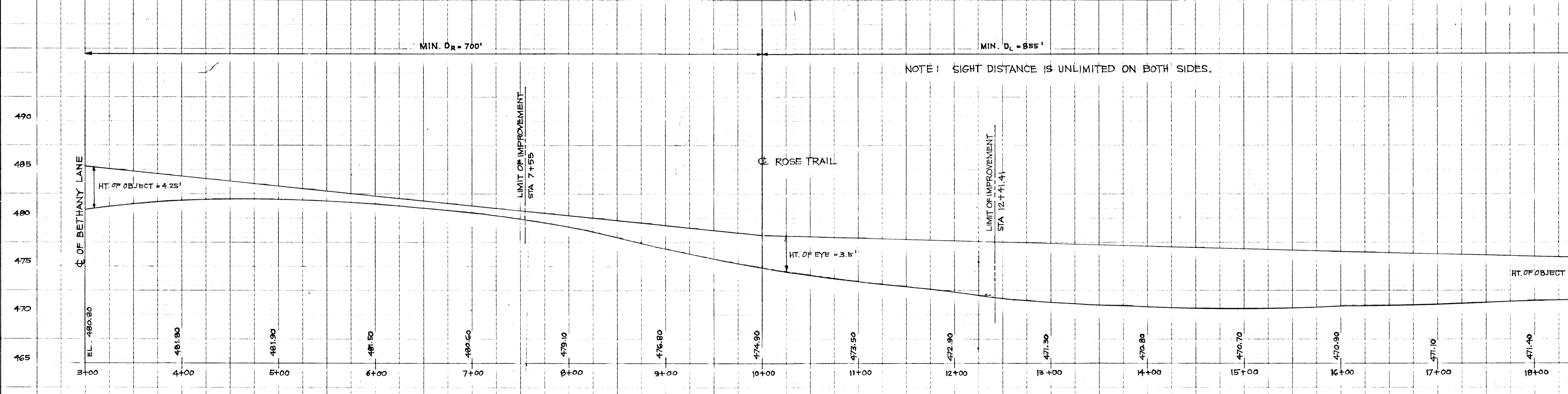
CUL-DE-SAC DETAIL
NOT TO SCALE

- NOTES:
1. STANDARD CONC. COMB. CURB AND GUTTER SHALL BE USED ON DOWN GRADE CUL-DE-SACS.
 2. THE MAXIMUM GRADE OF THE CIRCULAR AREA SHALL NOT EXCEED 0.5%.
 3. A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT X TO POINT Y.

BY	REVISIONS	DATE
JNC	COUNTY COMMENTS	4-30-93

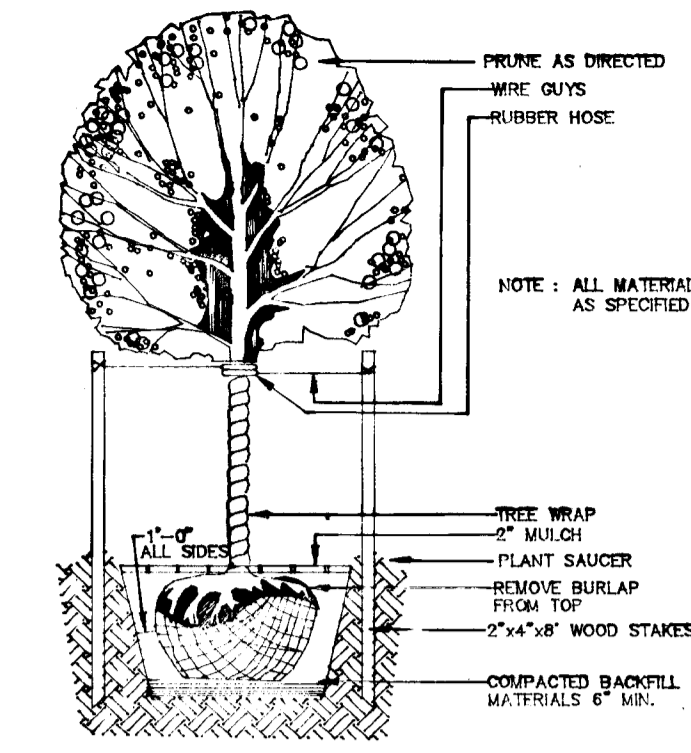
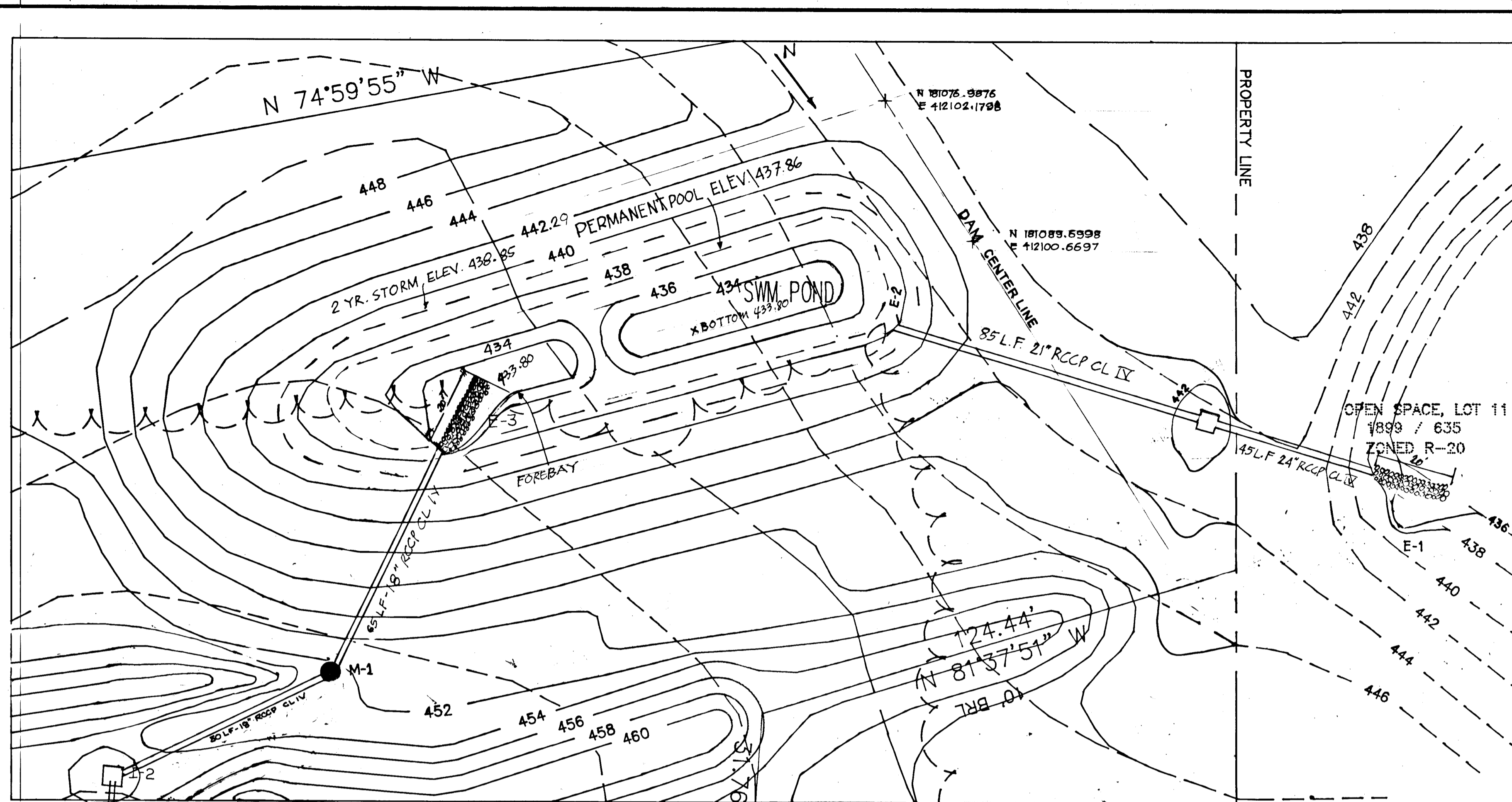
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Gina Jurnomony LAND DEVELOPMENT 1/29/94
 AND RESEARCH
 APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Donohue DIVISION 1-5-94
Paul D. Spon 1/12/94

BETHANY VILLAGE SEC.3, LOTS 5-17
MD. ROUTE 99 PROFILE
 WILDER BUILDING CORPORATION
 1514 NEAR THicket LANE
 STEVENSON, MD. 21153
 SCALE AS SHOWN DATE 1-8-95 SHEET NO. 3 OF 7
 DRAWN BY MLL
 CHECKED BY AVG
 DESIGNED BY MLL

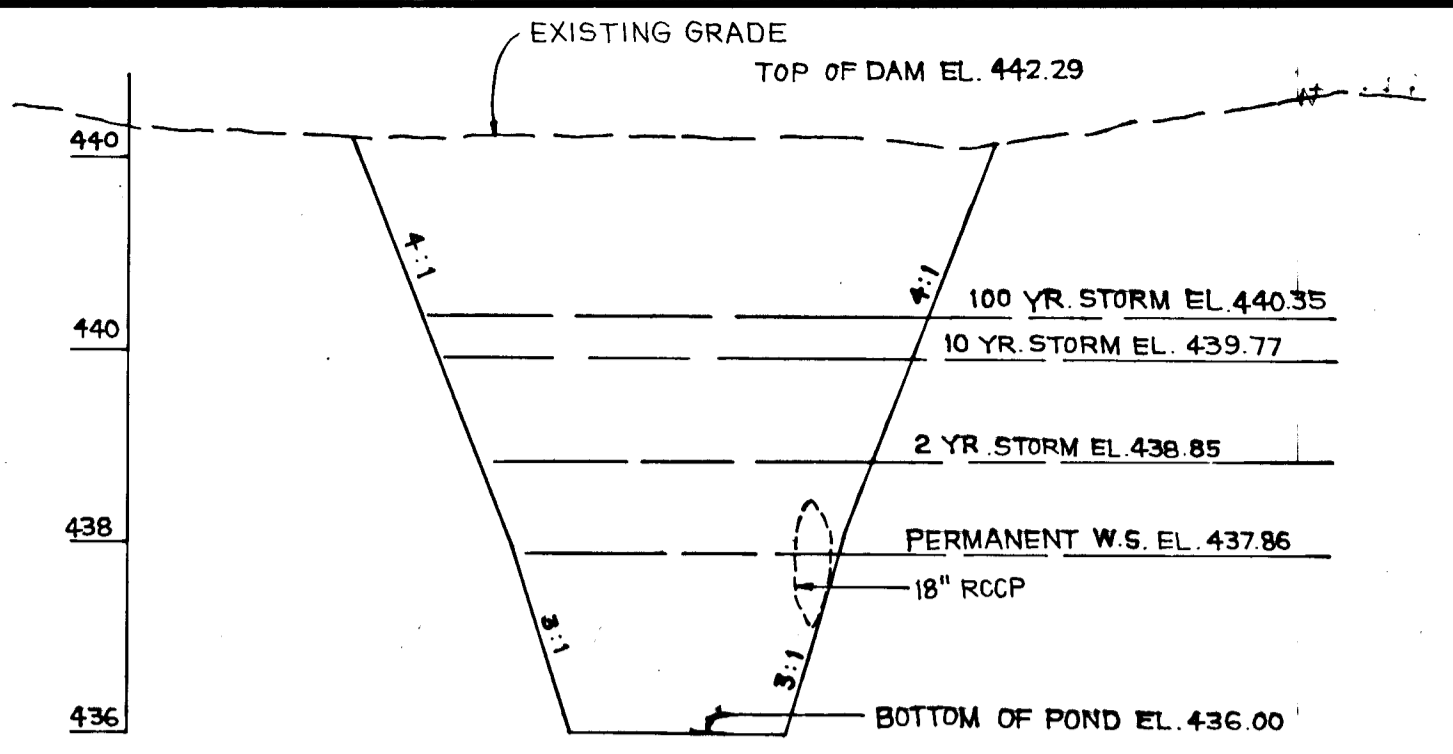


PROFILE OF MD. RT. 99
SCALE : 1" = 50' HOR.
1" = 50' VER.

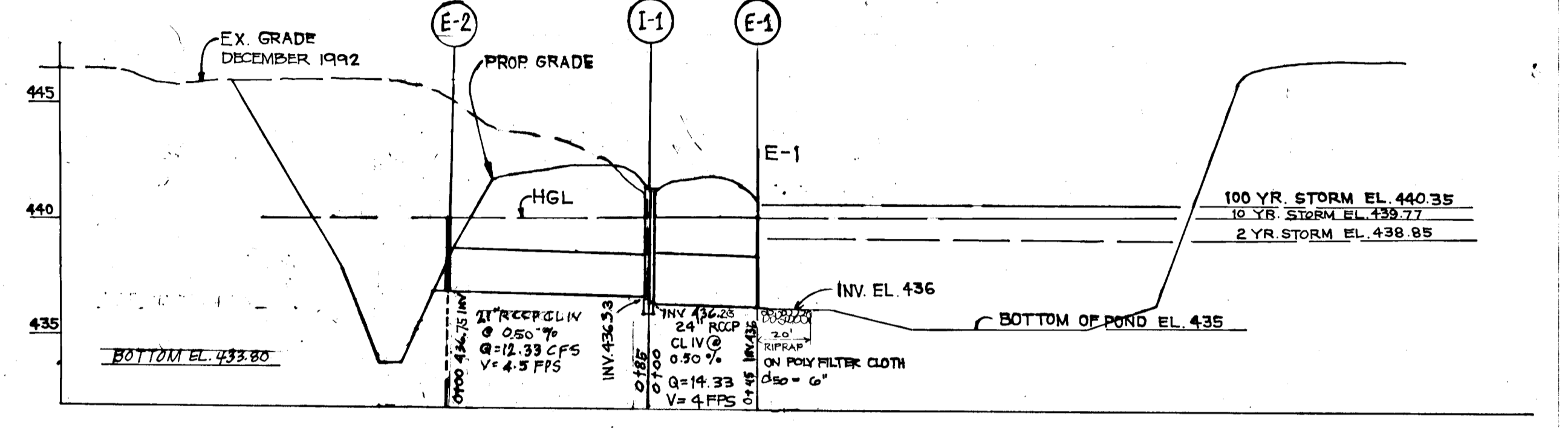
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TYPICAL DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

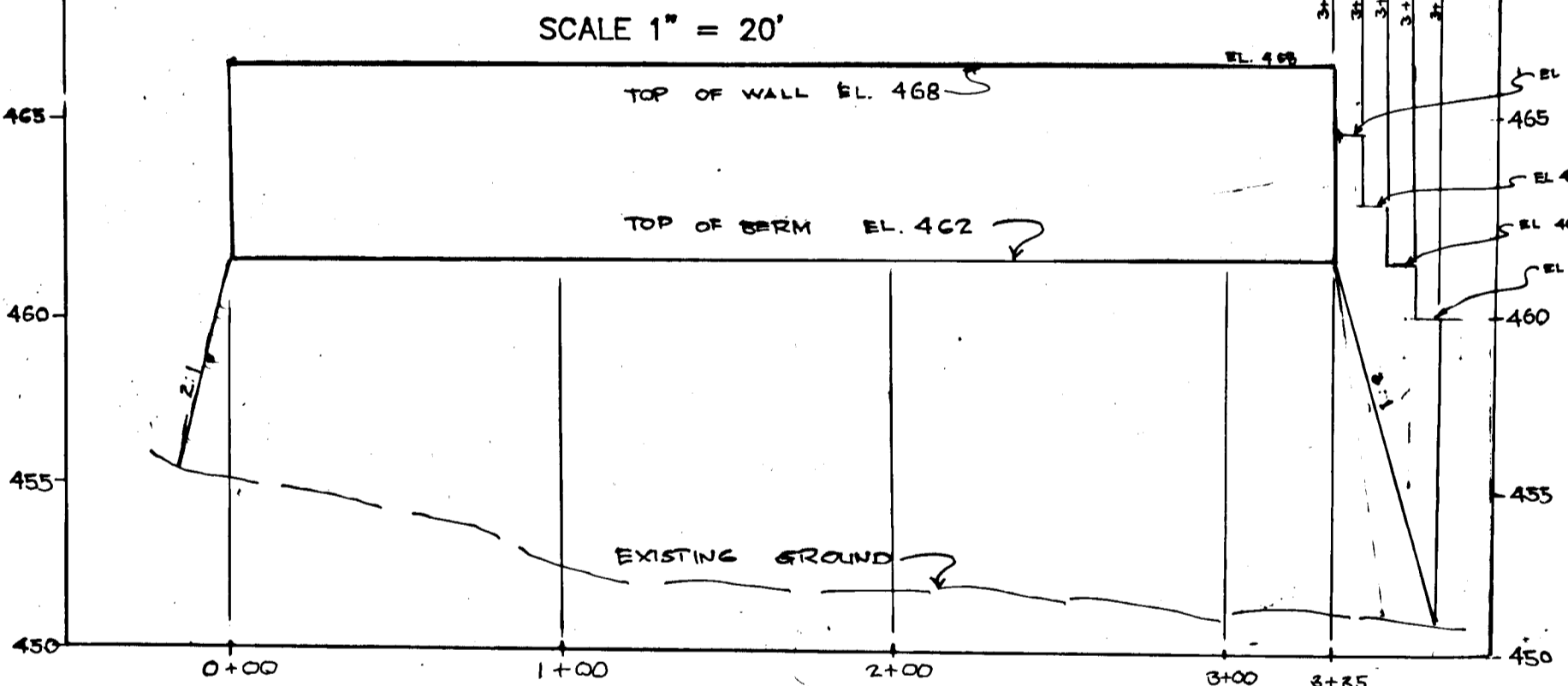


CROSS-SECTION THRU CENTER LINE OF DAM
1" = 20' HOR.
1" = 2' VER.



PROFILE THRU OUTLET PIPE
SCALE 1" = 50' HOR.
1" = 5' VER.

STORM WATER MANAGEMENT PLAN
SCALE 1" = 20'



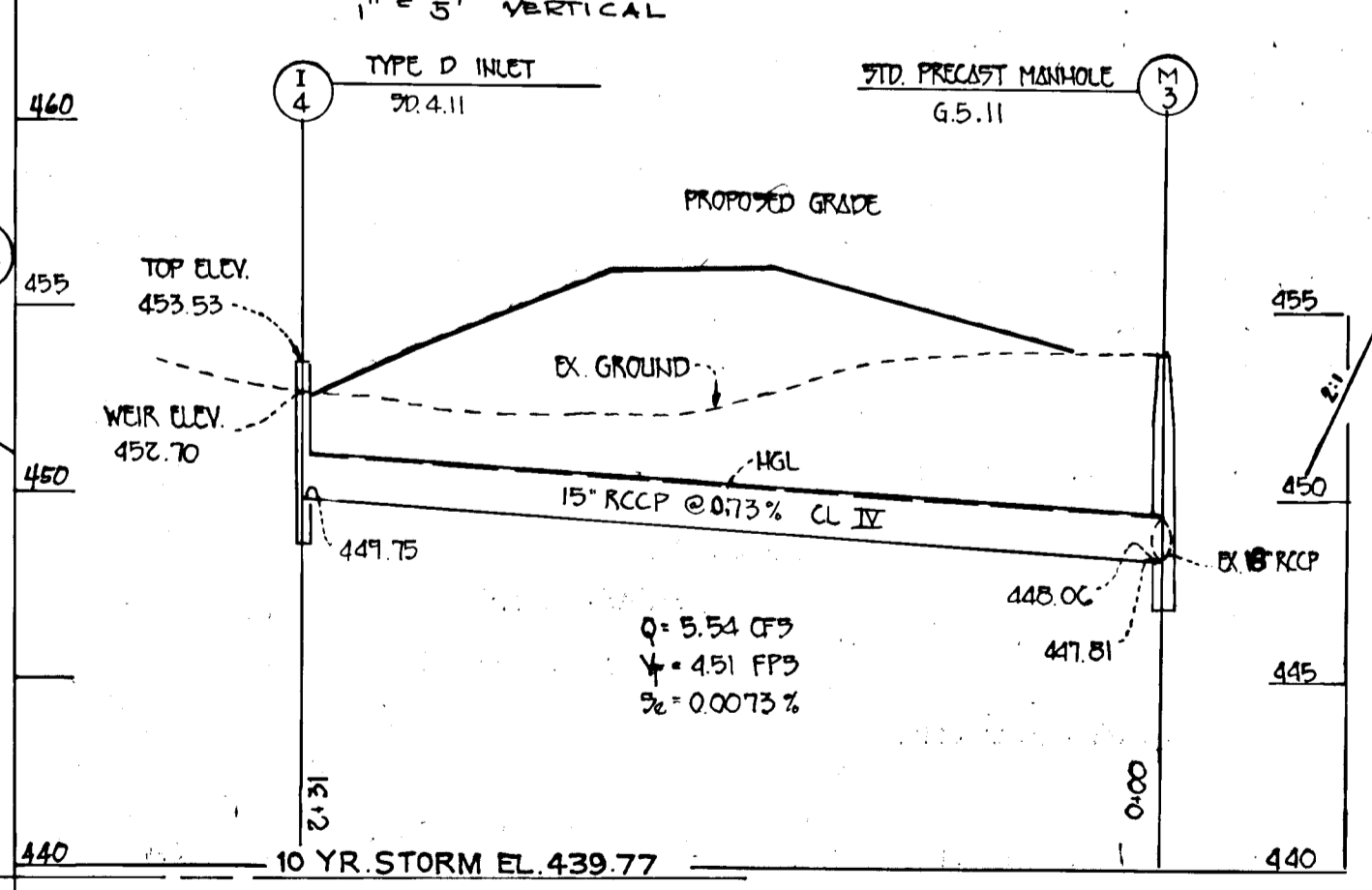
STRUCTURE SCHEDULE

NO.	TYPE	INVERT IN	INVERT OUT	TOP EL.	REMARKS	LOCATION
E-1	CONC. END SECTION		436.00	438.25	SD 5.51	N 18122.7510 E 412080.0844
E-2	CONC. END SECTION	436.75		438.58	SD 5.51	N 181028.0844 E 412138.0852
E-3	CONC. END SECTION		433.80	435.30	SD 5.51	N 181086.8097 E 412145.0404
I-1	K-INLET	436.33	436.23	444.50	SD 4.13	N 181083.0844 E 412074.8228
I-2	K-INLET	447.00	446.70	453.90	SD 4.13	N 181048.8100 E 412177.9793
I-3	A-5 INLET			463.84	SD 4.01	1474.48 OF LINEAR PROFILE
M-2	STD. MH	459.00	458.50	465.30	G 5.01	N 181083.0844 E 412145.0404
M-1	STD. MH	441.12	440.92	452.10	G 5.01	N 181078.0844 E 412145.0404
E-4	CONC. END SECTION	453.00		460.00	SD 5.51	N 181083.0844 E 412145.0404
E-5	CONC. END SECTION	454.00		460.00	SD 5.51	N 181084.4844 E 412231.03

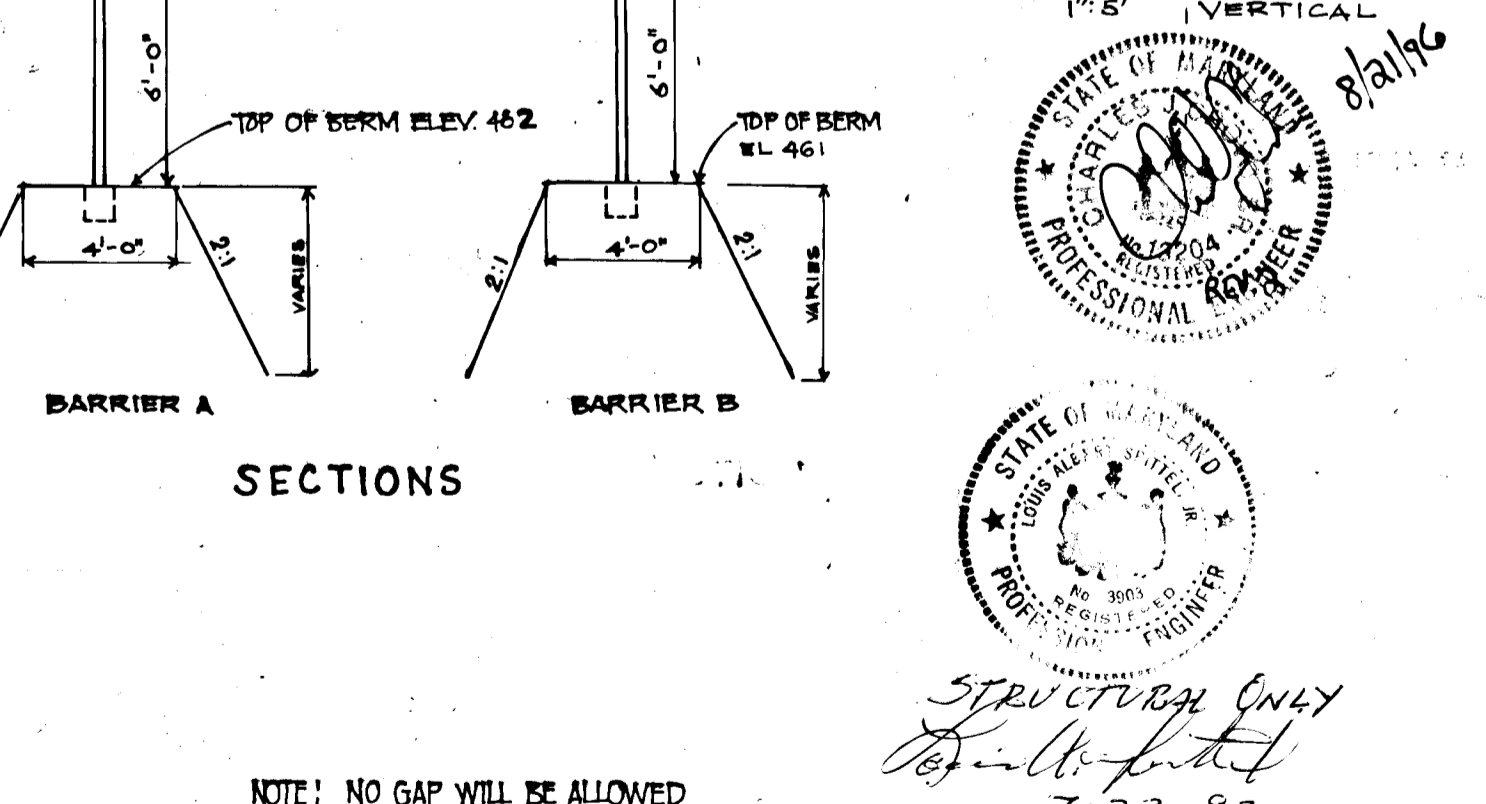
APPROVED: HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

Anna Summitt 1/24/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

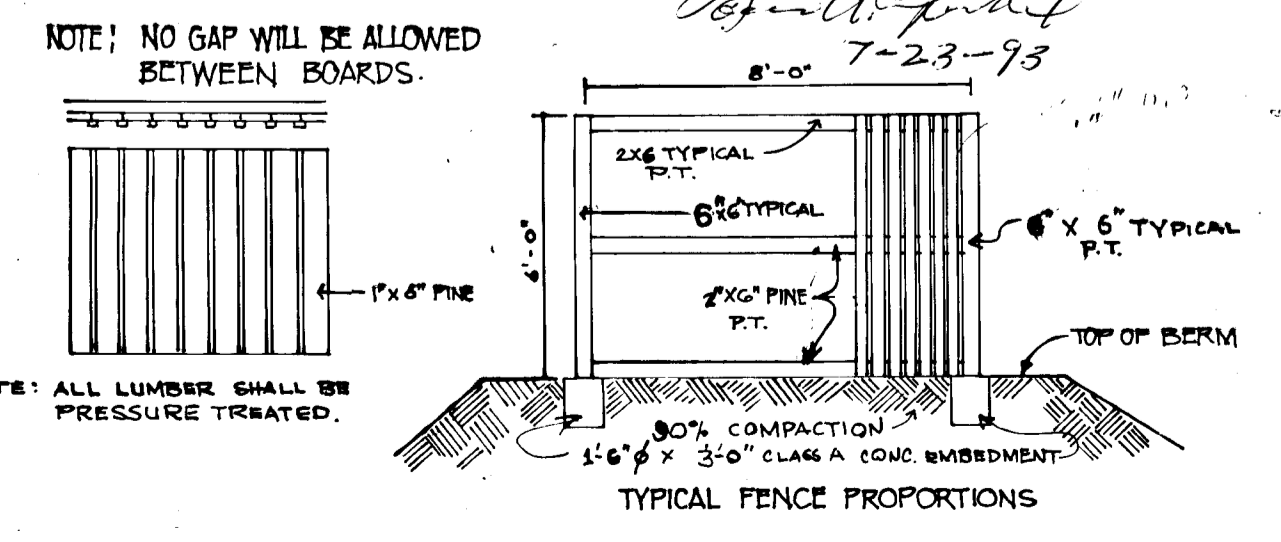
PROFILE OF BERM A
SCALE 1" = 50' HORIZONTAL
1" = 5' VERTICAL



PROFILE NOISE BARRIER "B"
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL



SECTIONS



NOTE: ALL LUMBER SHALL BE PRESSURE TREATED.

NO	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS	LOCATION
I-4	TYPICAL INLET	449.75	453.53	70.4.11		N 1814051 E 1352472
M-3	STD. MH	440.00	447.81	453.5	G 5.11	N 1814148 E 1352302

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.
Patricia Eyles 12-18-93
U.S. Soil Conservation Service DATE

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.
John R. Rhoads 12/13/93
Howard Soil Conservation District DATE

DEVELOPER'S CERTIFICATE
* I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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. THESE PLANS WILL BE REVIEWED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Joseph Wilcox 1-12-93
DEVELOPER'S SIGNATURE DATE

ENGINEER'S CERTIFICATE
* I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROMPTLY NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITHIN 30 DAYS OF COMPLETION.
Walter H. F. 1/14/93
ENGINEER'S SIGNATURE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Conker 1-5-94
CHIEF, BUREAU OF HIGHWAYS DATE
Paul D. Soper 1/12/94
CHIEF, BUREAU OF ENGINEERING DATE

NO.	DATE	REVISION
1	8-20-90	ADD STORM DRAIN I-4 TO M-3 (FCC)
2	4-20-93	COUNTY COMMENTS

PROJECT: BETHANY VILLAGE SECTION 3
LOTS 5 THRU 17

LOCATION: TAX MAP 17 PARCEL 645 2nd ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE: STORM WATER MANAGEMENT POND PLAN AND DETAILS

OWNER: WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

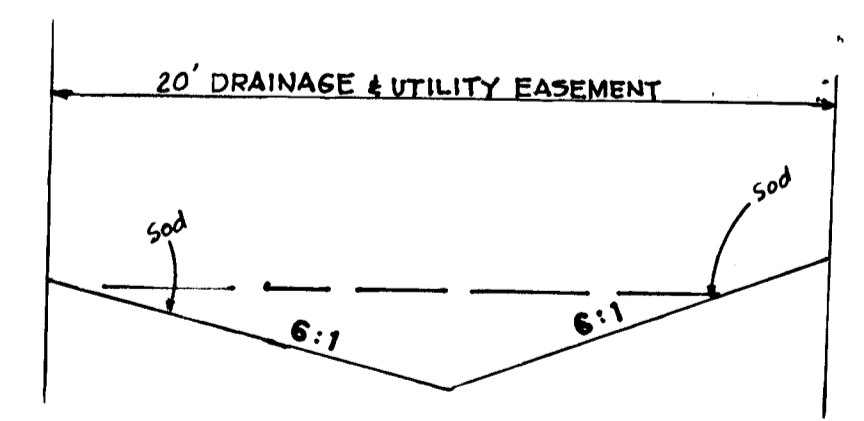
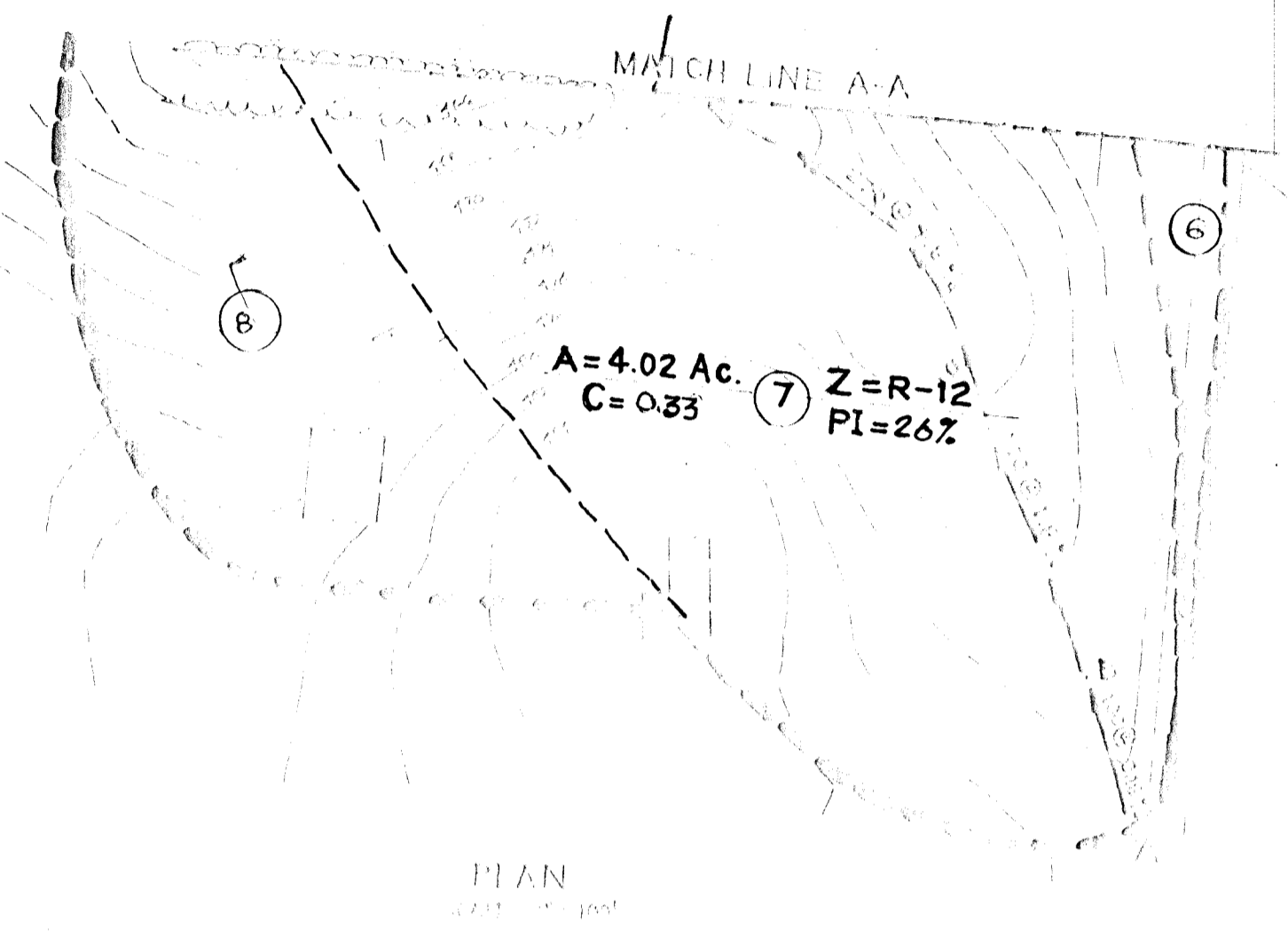
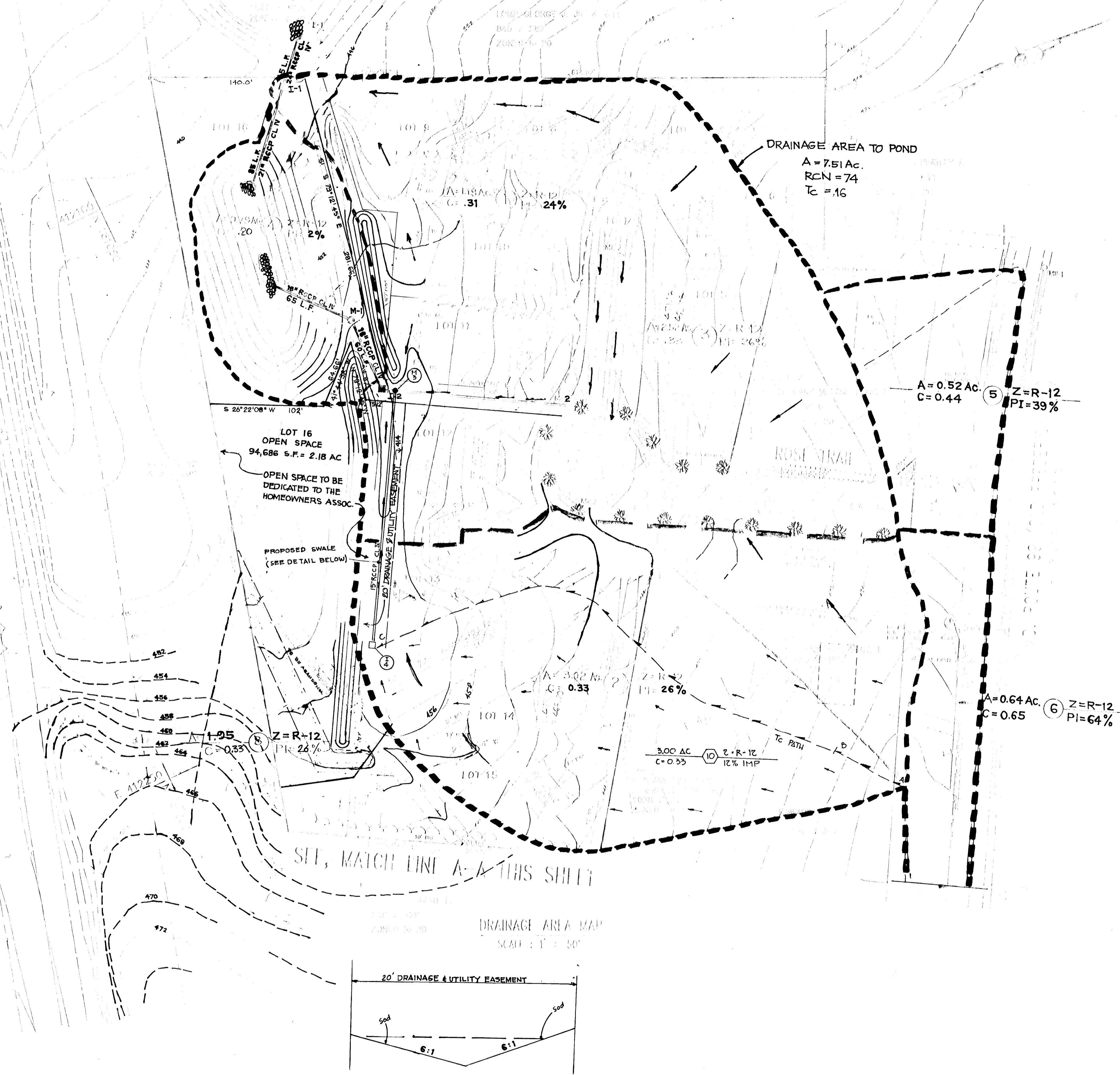
DEVELOPER: WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

Woria Engineering Inc.
CONSULTING ENGINEERS-LAND PLANNERS-SURVEYORS
3230 BETHANY LANE, SUITE 4, ELICOTT CITY, MD.
410-465-0400

DESIGNED: MLL	CHECKED: MLL	DATE: 1-5-93	PROJ. No.
DRAWN: AVG	APPROVED: MLL	SCALE: 1" = 50'	SHEET 4 OF 7

581

581

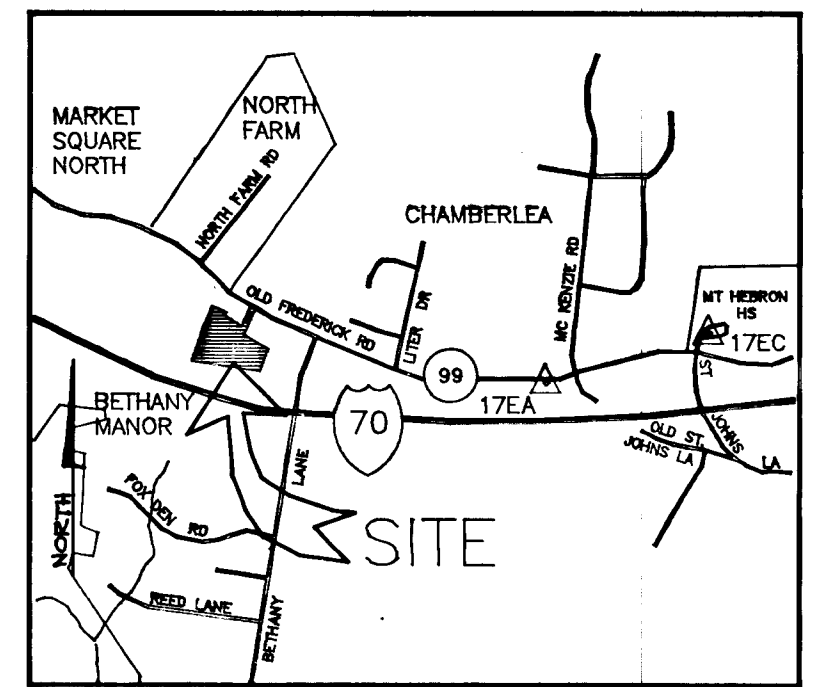


SWALE DETAIL @ BACK OF LOTS 12 & 13
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

APPROVED: HOWARD COUNTY DEPARTMENT PLANNING AND ZONING			
<i>Anna J. Janning</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		1/24/94 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS			
<i>Chris Dammus</i> CHIEF, LAND DEVELOPMENT DIVISION		1/11/94 DATE	
<i>Andrew M. Daniels</i> CHIEF, BUREAU OF HIGHWAYS		1-5-99 DATE	
<i>Robert S. Sporn</i> CHIEF, BUREAU OF ENGINEERING		1/12/94 DATE	
NO.	DATE	REVISION	
830	7/6	ADD STORM DRAIN I-4 TO M-3 (FCC)	
PROJECT: BETHANY VILLAGE SECTION 3 LOTS 5 THRU 17			
LOCATION: TAX MAP 17 PARCEL 645 2nd ELECTION DISTRICT, HOWARD COUNTY, MD.			
TITLE: DRAINAGE AREA MAP GRADING PLAN			
OWNER: WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21153		Developer: WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21153	
DESIGNED: MLL		CHECKED: MLL	DATE: 1-5-93
DRAWN: AVG		APPROVED: MLL	PROJ. No. SCALE: 1" = 50'
			SHEET 5 OF 7



REV. 2



VICINITY MAP
SCALE: 1" = 2,000'

TRAP NO. 1
TYPE: SEDIMENT BASIN
DRAINAGE AREA = 7.51 ACRES
VOLUMES REQUIRED = 13,518 Cu. Ft.
VOLUMES PROVIDED = 23,086.8 @ ELEV. 440.15
(SEE STORAGE ELEV. CURVE)
CRFST ELEV. = 441.15'
TOP ELEV. = 442.15'
BOTTOM ELEV. = 436'
CLEAN OUT = 438.5'

- SEQUENCE OF CONSTRUCTION
- OBTAIN GRADING PERMIT.
 - INSTALL BLAZE ORANGE PLASTIC WIRE MESH TREE PROTECTION.
 - INSTALL ALL SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN SUCH AS STONE CONSTRUCTION ENTRANCE, SILT FENCE AND EARTH DIKE.
 - CONSTRUCT STORM WATER MANAGEMENT POND INCLUDING PIPE FROM E-2 TO E-1.
 - TEMPORARILY BLOCK PIPE FROM I-1 TO E-1 WITH BRICK BULKHEAD.
 - GRADE THE AREA AS SHOWN AND CONSTRUCT UTILITIES AND ROADS.
 - STABILIZED ALL DISTURBED AREAS.
 - REMOVE SILT FROM STORM WATER MANAGEMENT POND AND THE BRICK BULKHEAD BLOCKING I-1 TO E-1.
 - REMOVE ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH HOWARD COUNTY SOIL CONSERVATION SERVICE REQUIREMENTS.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.

Patricia Palmer 12/13/93
U.S. Soil Conservation Service Date

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

John R. Robinson 12/13/93
Howard Soil Conservation District Date

APPROVED: HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

Gina Surman 1/29/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Mark Surman 1/11/94
CHIEF, LAND DEVELOPMENT DIVISION DATE

Andrew M. Snider 1-5-94
CHIEF, BUREAU OF HIGHWAYS DATE

Paul J. Sapan 1/12/94
CHIEF, BUREAU OF ENGINEERING DATE

NO.	8-20-93	ADD STORM-DRAIN I-4 TO M-3 (FCC)
DATE		REVISION

PROJECT: BETHANY VILLAGE SECTION 3
LOTS 5 THRU 17

LOCATION: TAX MAP 17 PARCEL 645 2nd ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE: SEDIMENT CONTROL PLAN - SOILS MAP

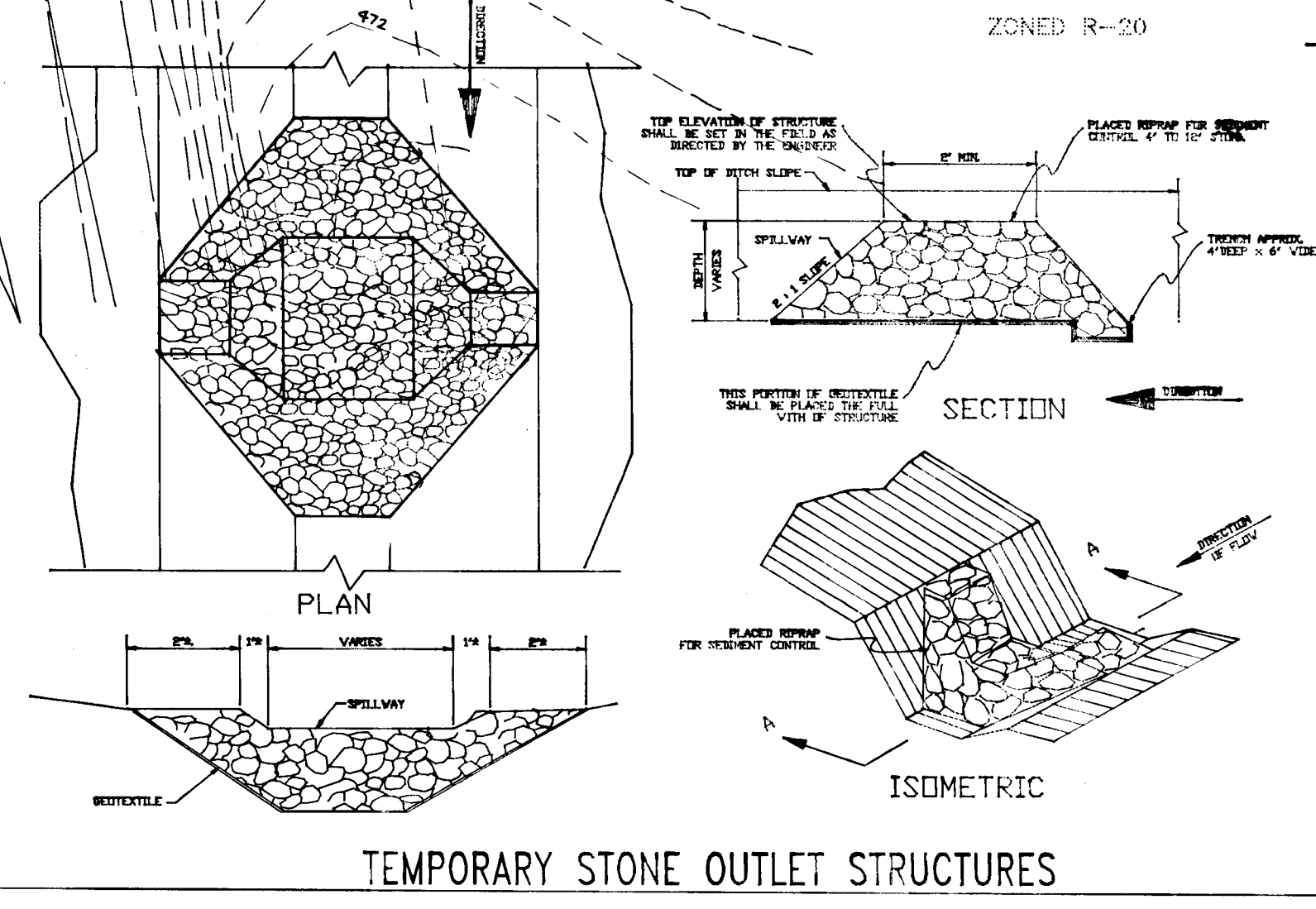
OWNER: WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

DEVELOPER: WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

DESIGNED: MLL CHECKED: MLL DATE: 1-5-93 PROJ. No.
DRAWN: AVG APPROVED: MLL SCALE: 1" = 50' SHEET 6 OF 7



- FOR LOCATION OF OUTLET STRUCTURES REFER TO CONSTRUCTION PLANS
- THE OUTLET STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND THE STONE SHALL BE REPLACED WHEN THE OUTLET STRUCTURES CEASE TO FUNCTION AS INTENDED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, SILT ACCUMULATION AMONG THE STONE, ETC. HOWEVER, IN ANY CASE, THE SILT SHALL BE CLEARED OUT WHEN IT REACHES 50% OF THE HEIGHT OF THE STRUCTURES.
- TEMPORARY STONE OUTLET STRUCTURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. IN CUT AREAS IT SHALL ALWAYS BE REMOVED. SHALLOW FILLS LESS THAN 20 FEET AS DIRECTED BY THE ENGINEER, IT WILL NOT BE REMOVED IN STEEPER THAN 20 FOOT FILLS.
- THIS DEVICE IS TO BE USED ONLY AS A VELOCITY CHECK. IT IS NOT INTENDED TO TRAP SEDIMENT RUNOFF.



- LEGEND:
- SILT FENCE
 - LIMIT OF CONSTRUCTION
 - TREE PROTECTION PLASTIC MESH
 - STABILIZED CONSTRUCTION ENTRANCE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - TEMPORARY STONE OUTLET STRUCTURE
 - EARTH DIKE



DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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."

Joseph Wilder 1-12-93
DEVELOPER'S SIGNATURE DATE

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Paul J. Sapan 1/13/94
ENGINEER'S SIGNATURE DATE

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