

**E CURVE DATA
STONEHOUSE DRIVE**
 STA. 14+09.36 TO STA. 24+190.57
 R = 925.00'
 Δ = 102° 21'
 Δ = 112° 00' 10"
 T = 835.73'
 CHD = 118° 04' 59" W, 871.02'

**E CURVE DATA
STONEHOUSE DRIVE**
 STA. 7+95.50 TO STA. 12+30.75
 R = 600.00'
 Δ = 44° 11'
 Δ = 42° 07' 50"
 T = 231.10'
 CHD = 5° 76' 29" W, 431.32'

**E CURVE DATA
STONEHOUSE DRIVE**
 STA. 7+95.50 TO STA. 13+57.77
 R = 600.00'
 Δ = 50° 21'
 Δ = 53° 41' 14"
 T = 303.65'
 CHD = 5° 70' 42" W, 541.87'

**E CURVE DATA
WATER WHEEL COURT**
 STA. 0+44.83 TO STA. 2+06.85
 R = 316.00'
 Δ = 230.75'
 Δ = 40° 01' 12"
 T = 115.08'
 CHD = 5° 14' 34" W, 216.20'

PROPERTY OF
 LAUREN A. & GLEN T. SWANER
 L. 3243 F. 50

NOTE: CURB TRANSITION AT STORM DRAIN INLETS SHALL BE PROVIDED PER HQ CO. STD DETAIL R-3.06

DANIELS MILL OVERLOOK
 SECTION 2, AREA 3
 LOTS 131 THRU 176 AND PARCEL 'B'
 SECOND ELECTION DISTRICT HOWARD COUNTY, MD.

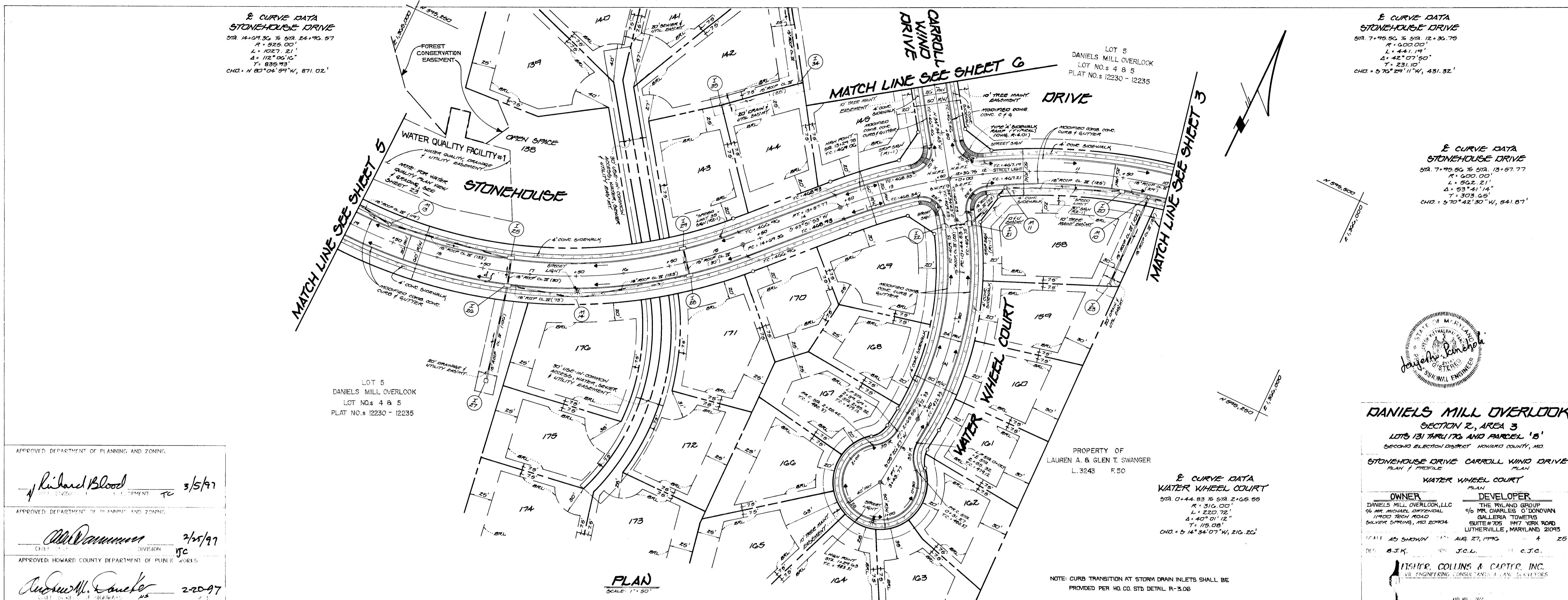
STONEHOUSE DRIVE CARROLL WIND DRIVE
 PLAN & PROFILE

OWNER
 DANIELS MILL OVERLOOK LLC
 96 W. HOWARD CORRIDOR
 11900 TECH ROAD
 SILVER SPRING, MD 20904

DEVELOPER
 THE IRVING GROUP
 W. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705 147 YORK ROAD
 LUTHERVILLE, MARYLAND 21045

SCALE: AS SHOWN AUG 27, 1998
 B.J.K. J.C.L. C.J.C.

FISHER, COLLINS & CARTER, INC.
 181 ENGINEERING, CONSULTING & ARCHITECTURE
 1401 45th Street



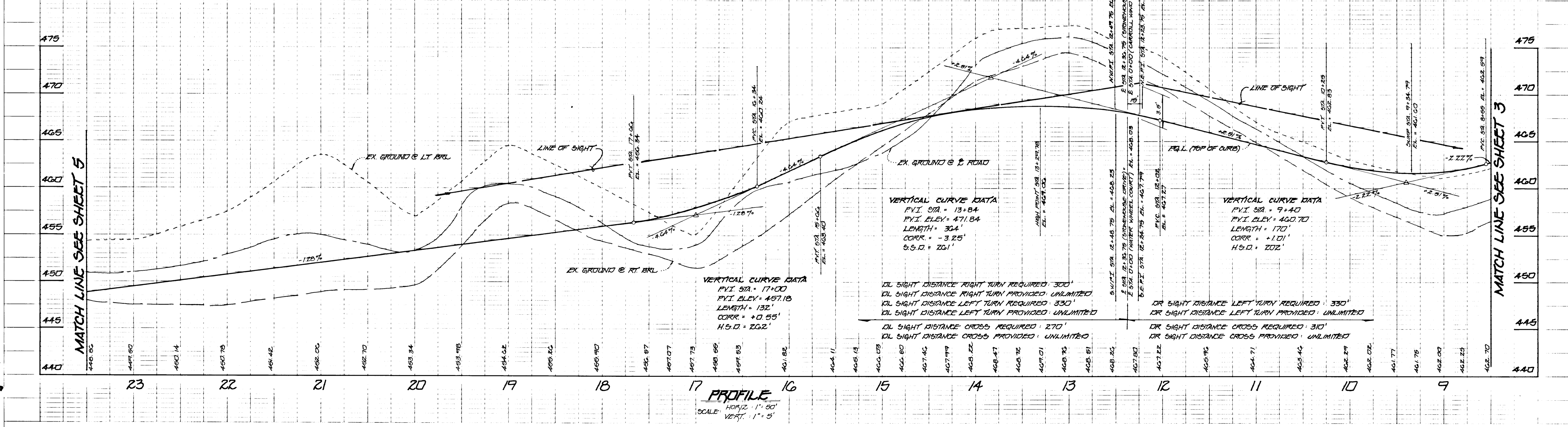
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Richard Blood 3/5/97

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 2/5/97

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Andrew M. Dwyer 2-20-97

STONEHOUSE DRIVE
 DESIGN SPEED: 35 M.P.H.

STONEHOUSE DRIVE
 DESIGN SPEED: 30 M.P.H.

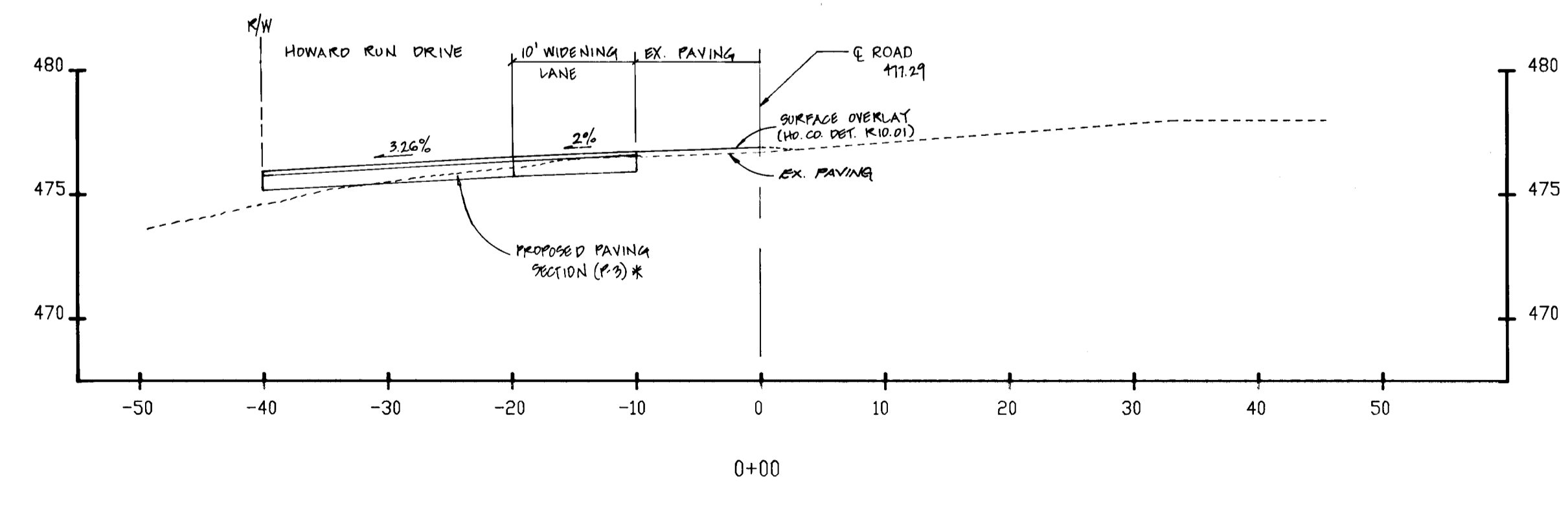
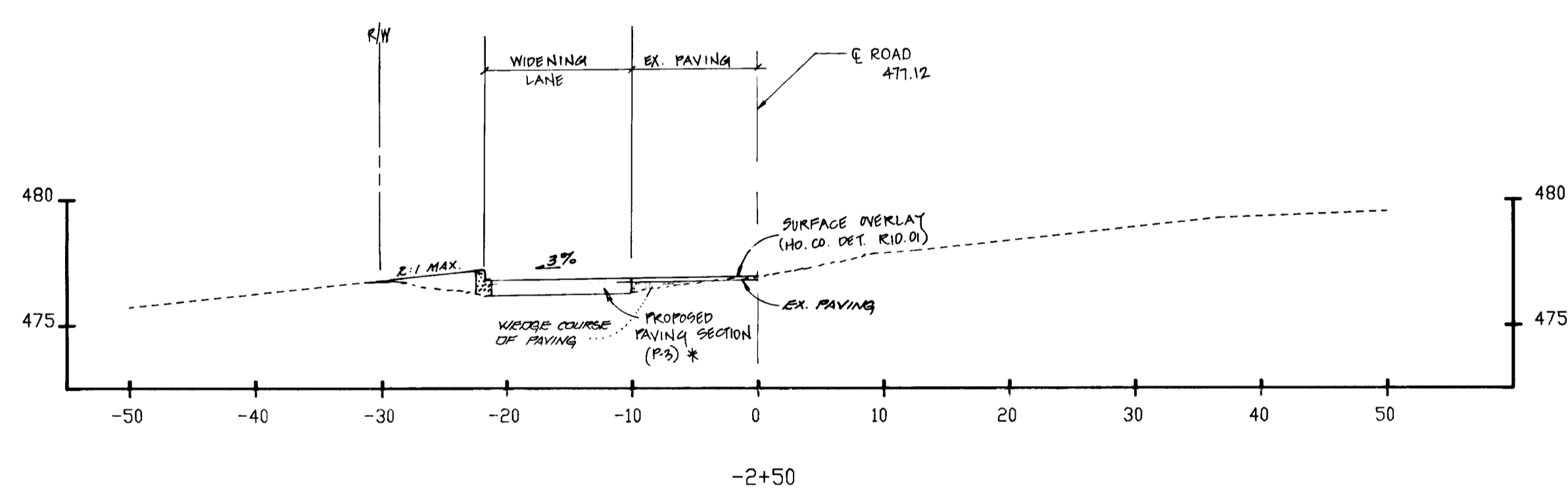
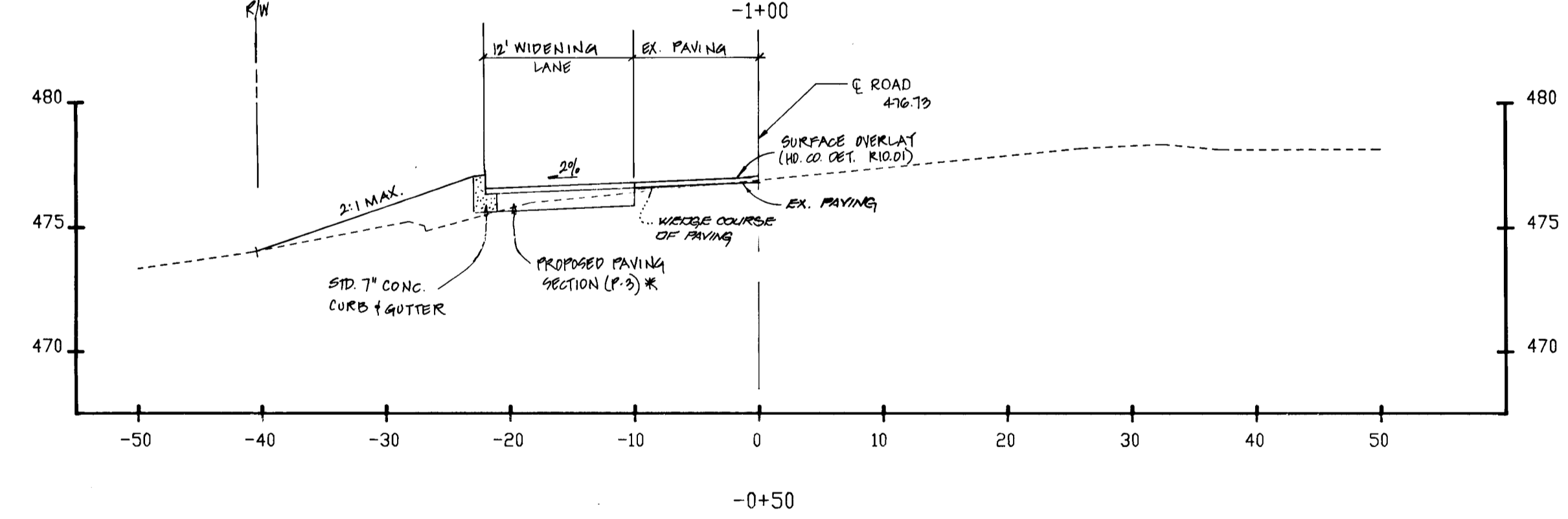
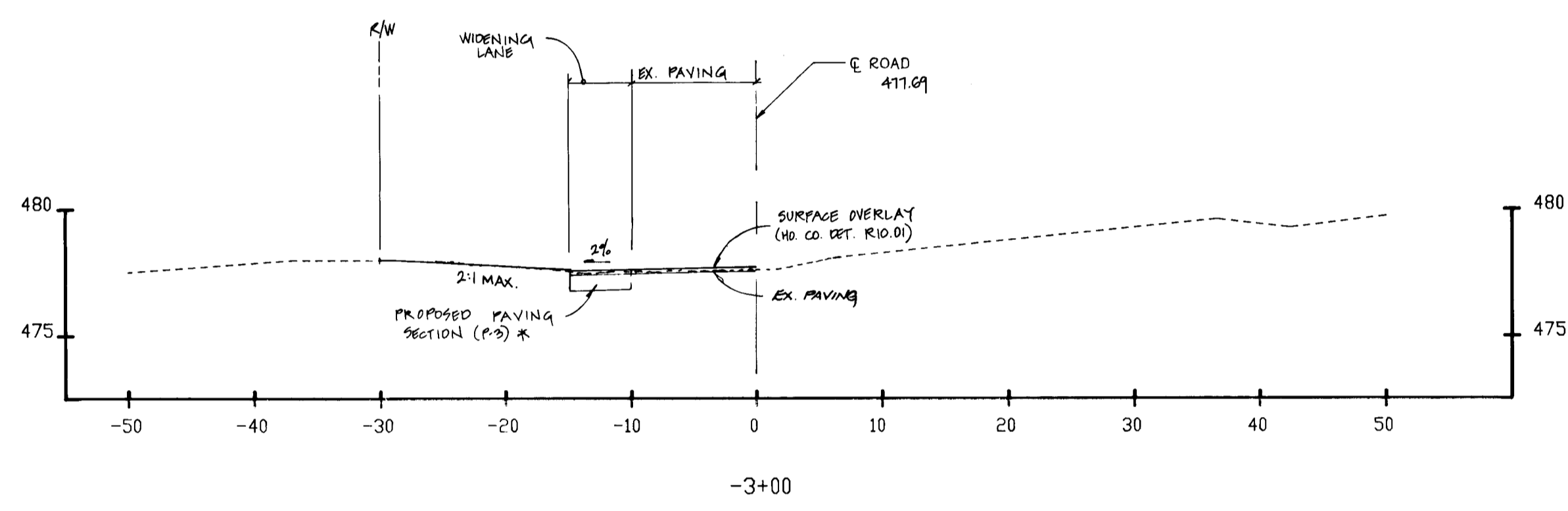
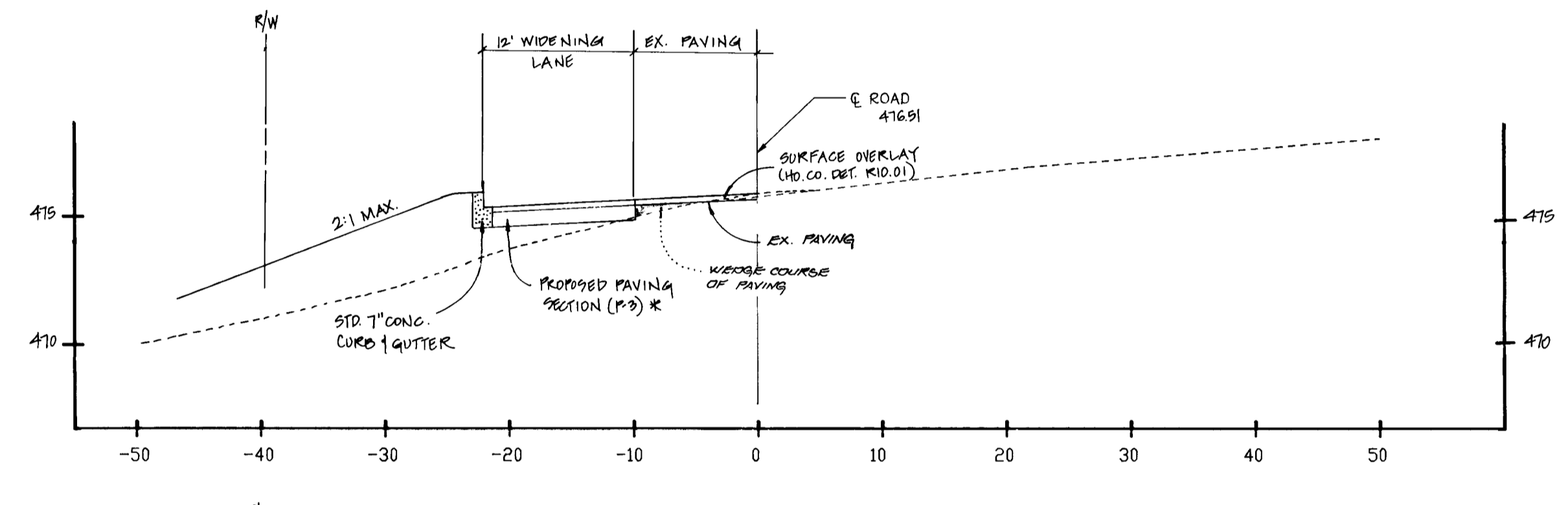
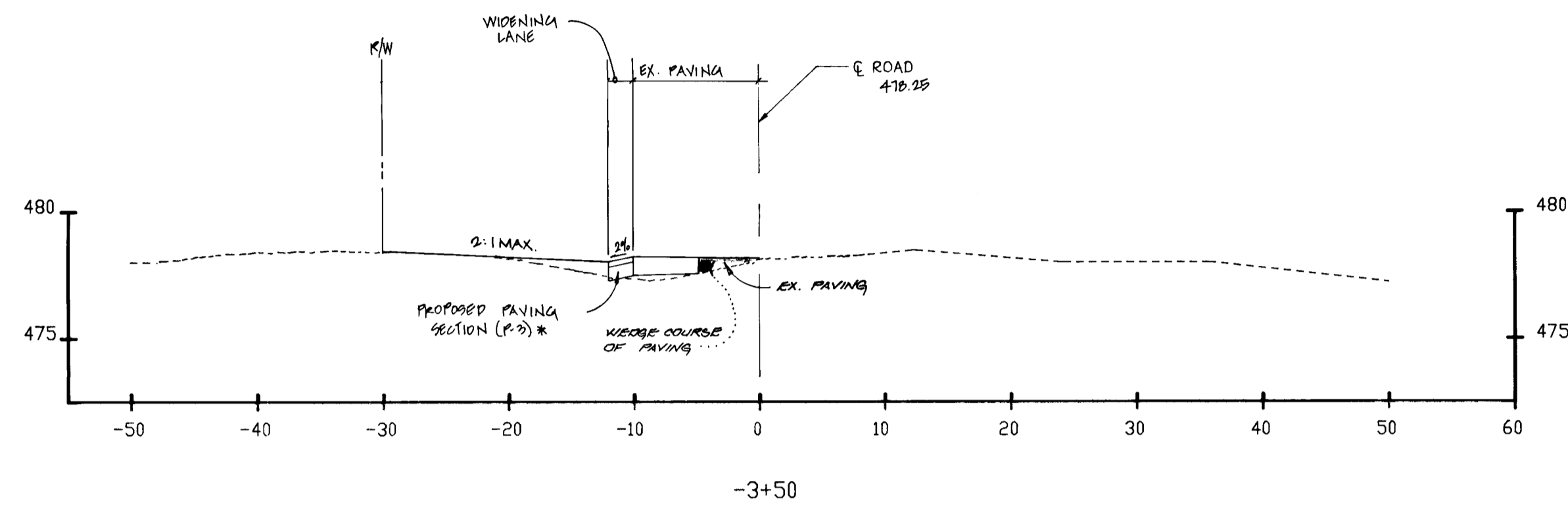
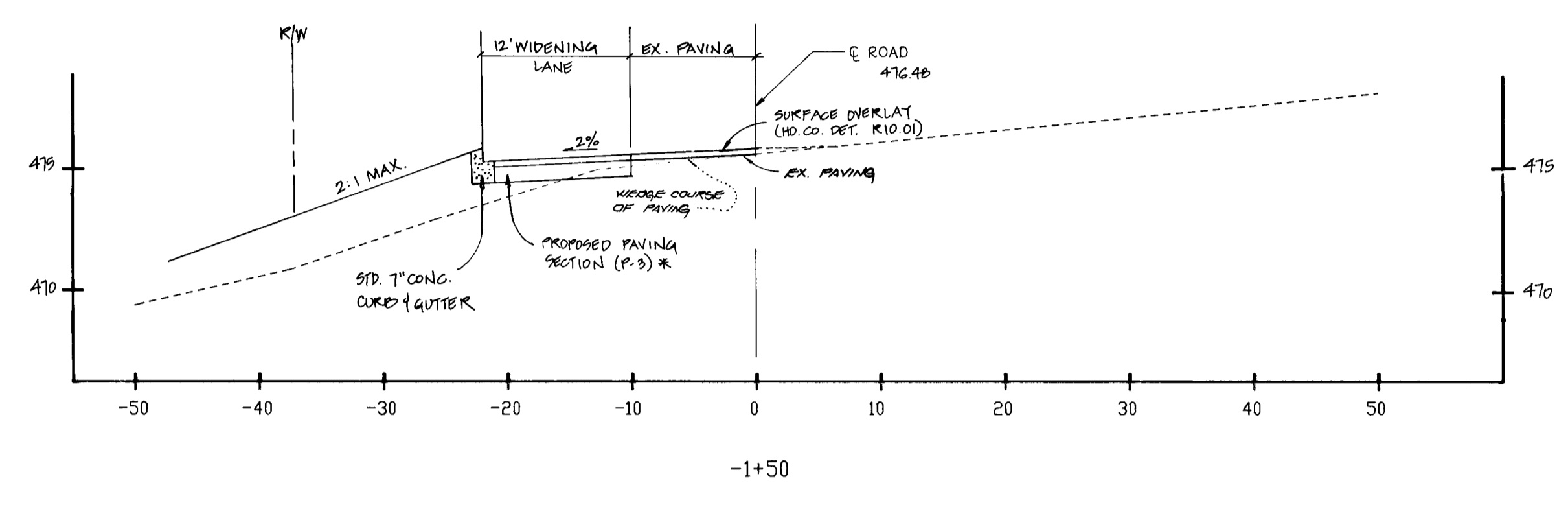
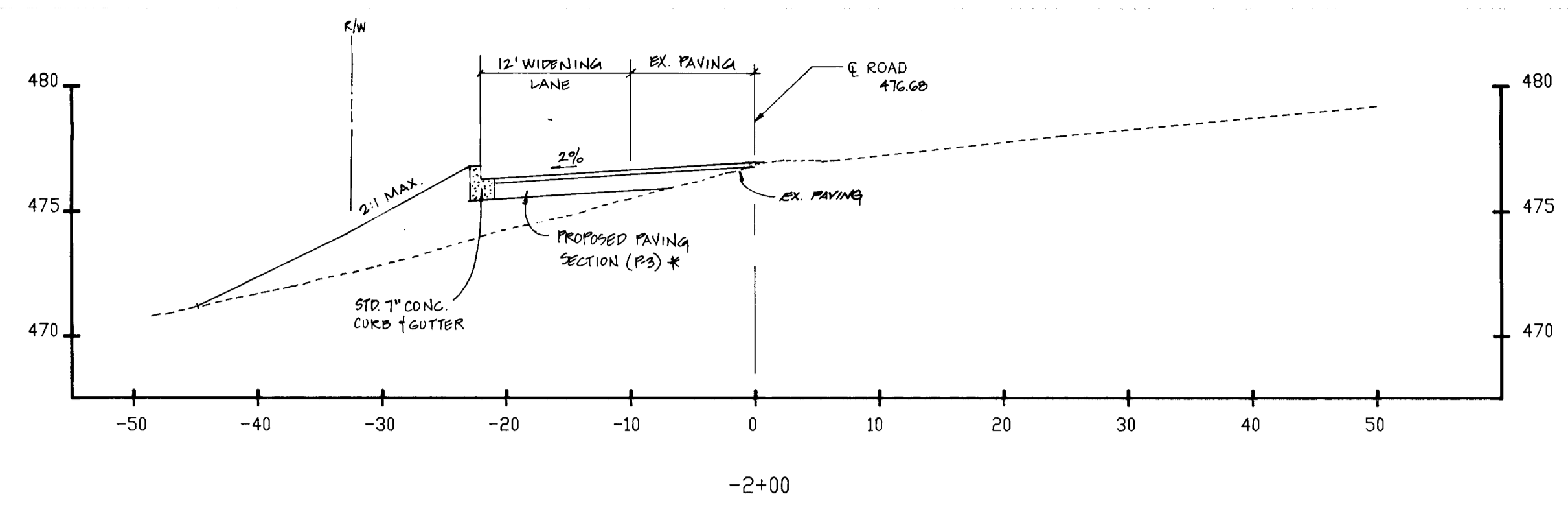


1783

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Davel 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, PLANNING AND ZONING DIVISION DATE

John H. Kimchola 2/15/97
 CIVIL ENGINEER, ENGINEERING DIVISION DATE



* PAVING SECTION TO BE (P.S.) PER HOWARD COUNTY DETAIL R201



CROSS SECTIONS - OLD FREDERICK ROAD
DANIELS MILL OVERLOOK
 SECTION 2 AREA 3
 LOTS 131 THRU 176 AND PARCEL 'B'
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 8 OF 25
 SCALE: AS SHOWN DATE: AUG 27, 1996

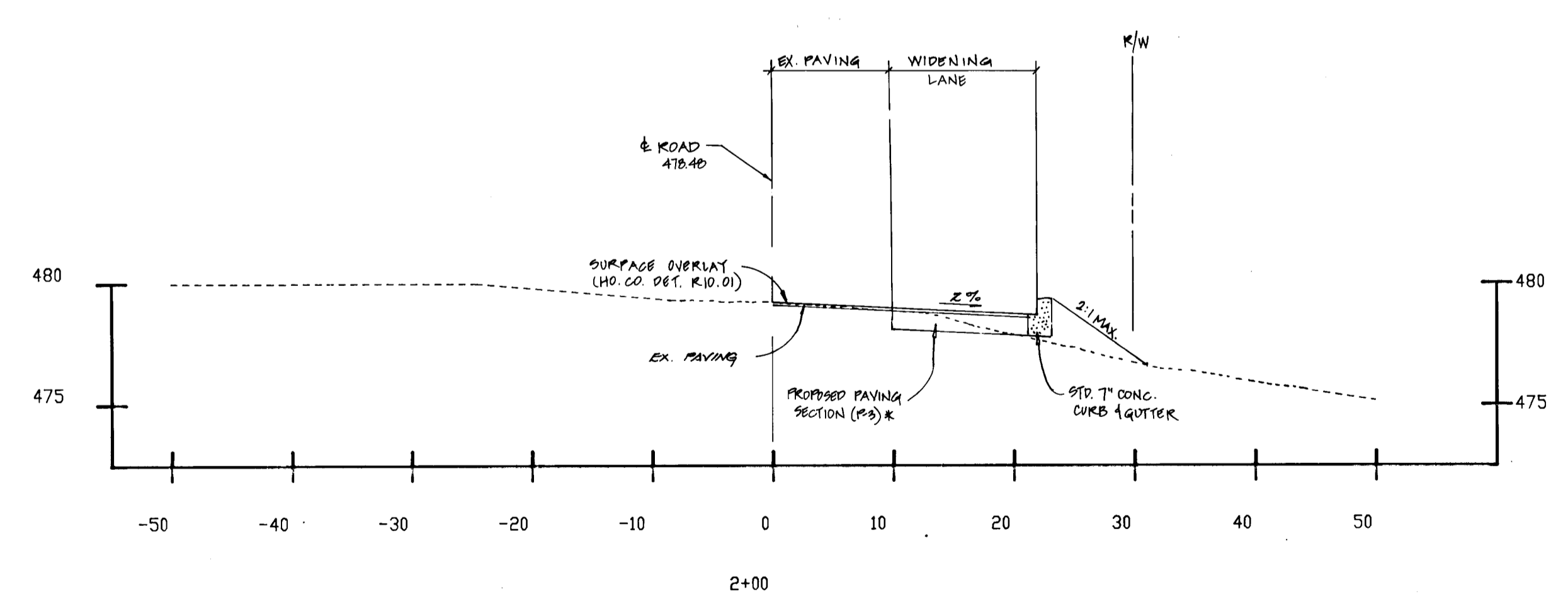
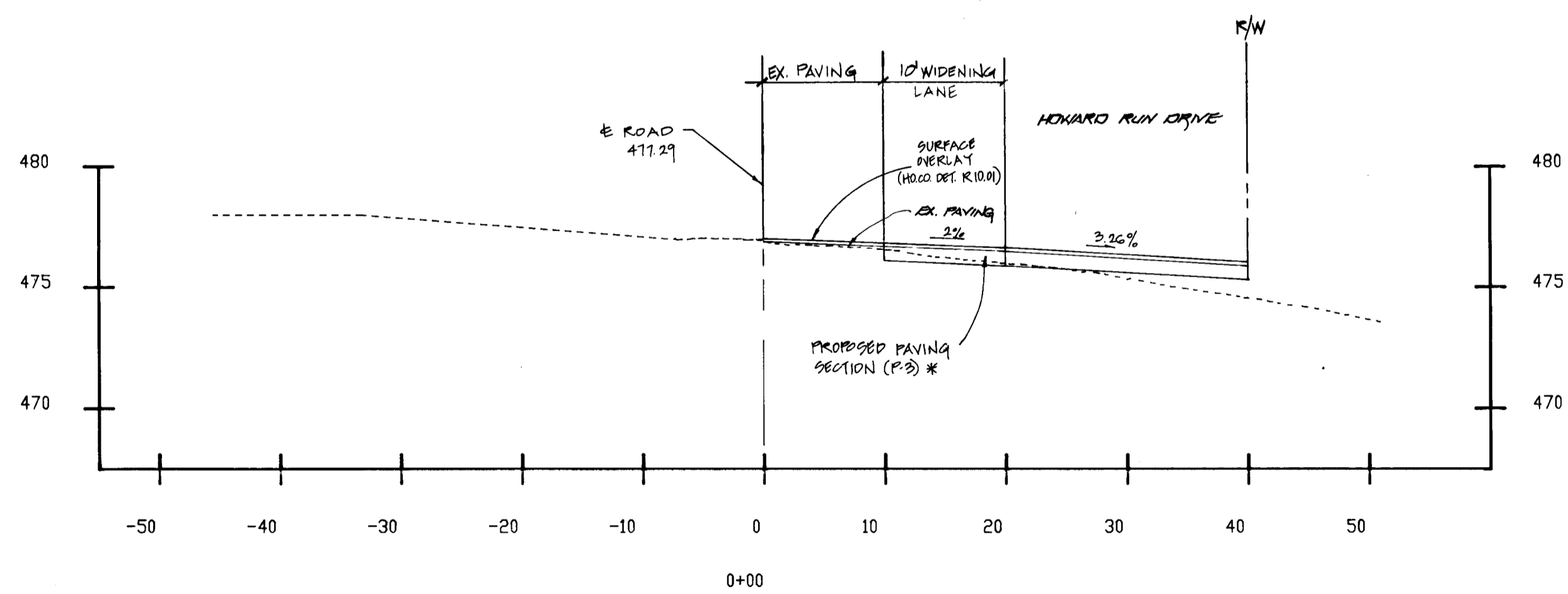
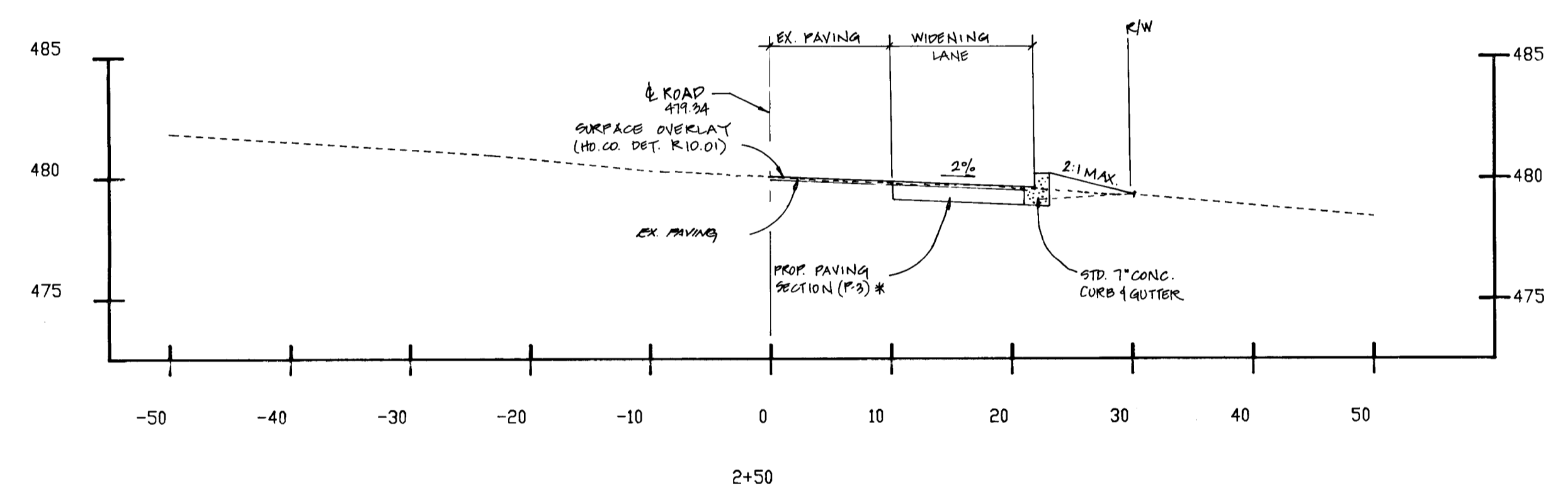
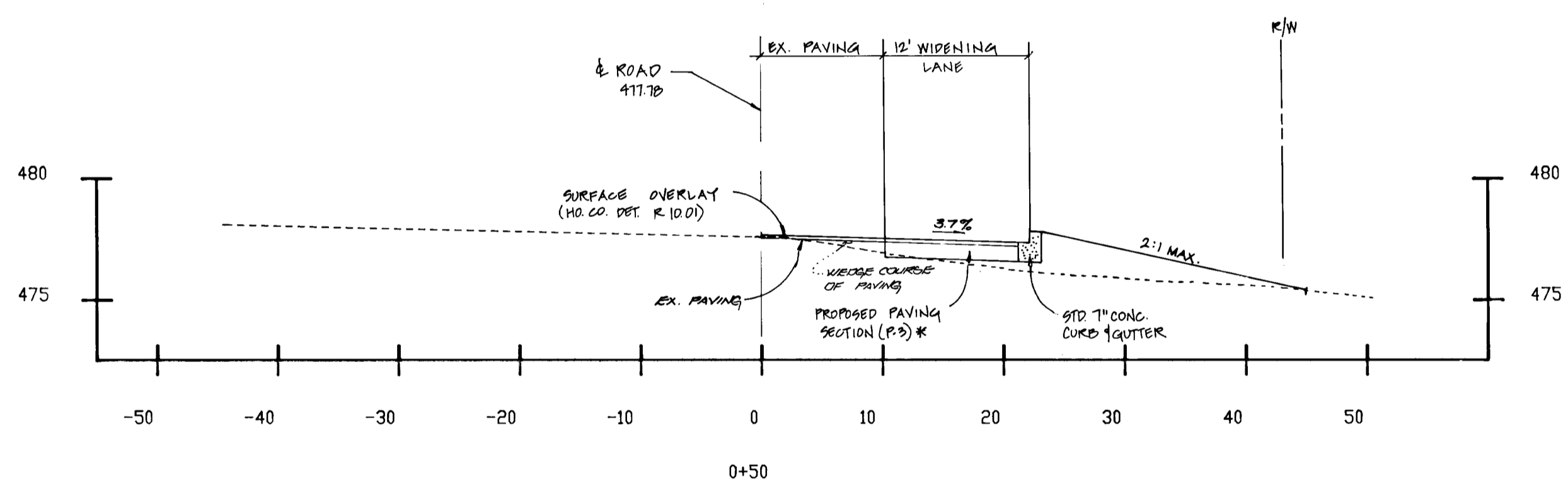
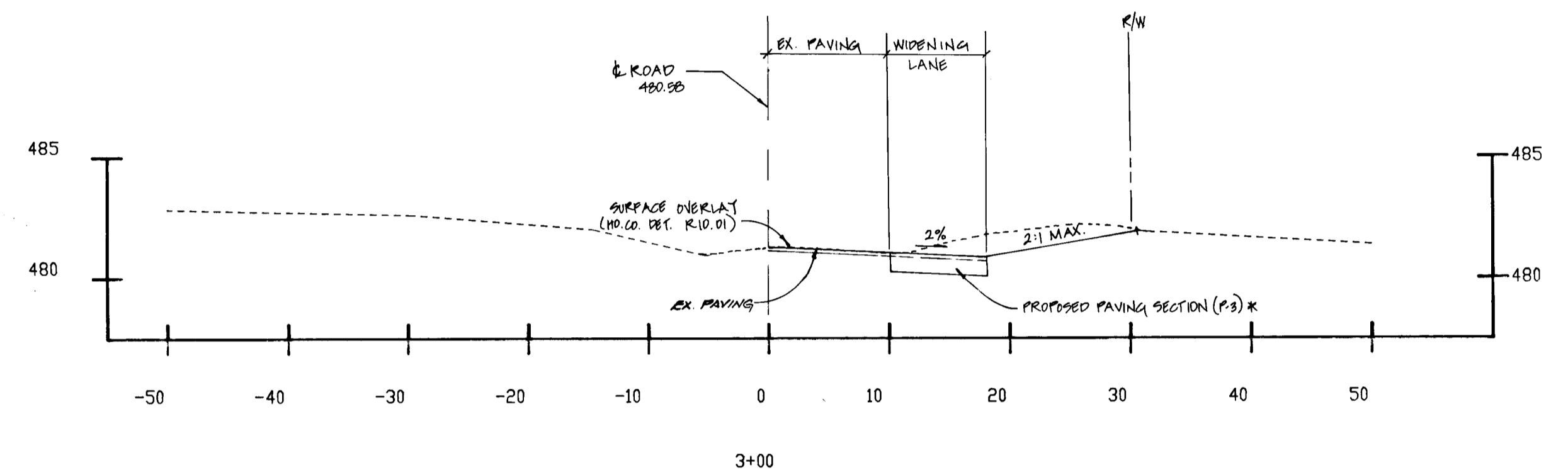
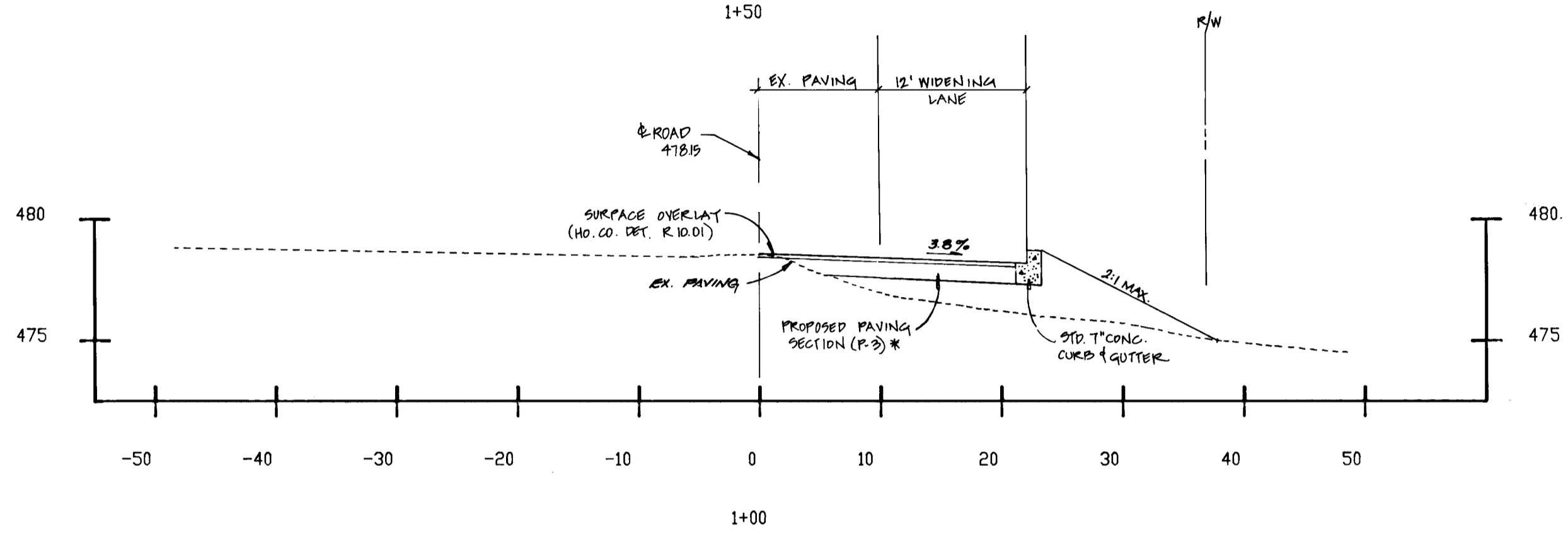
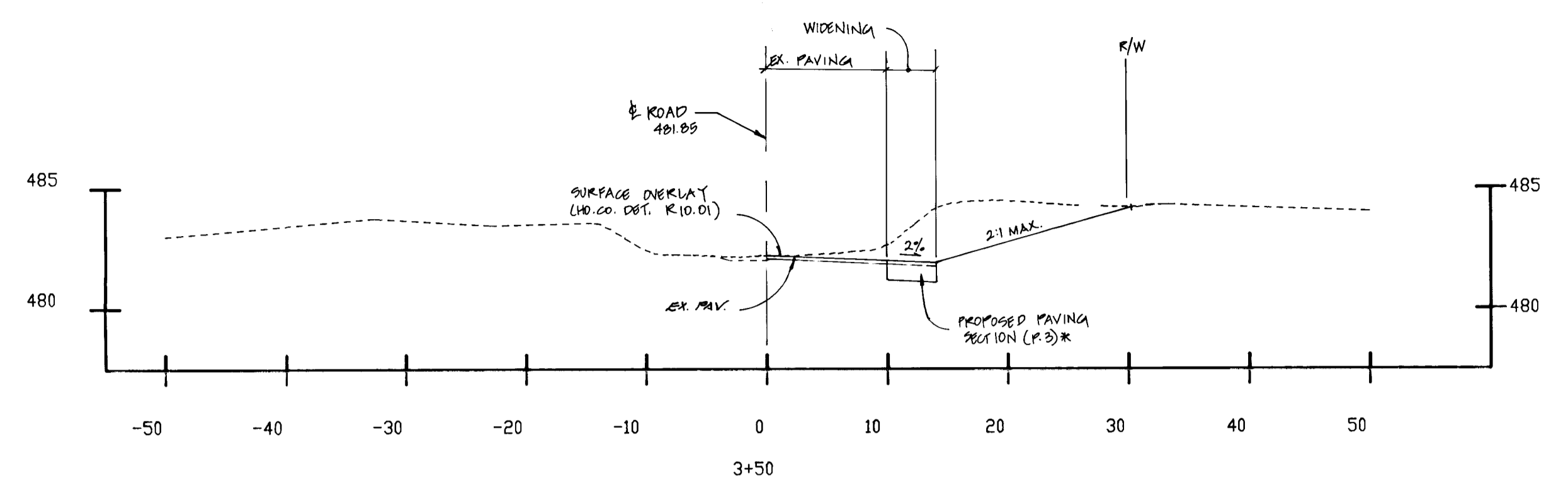
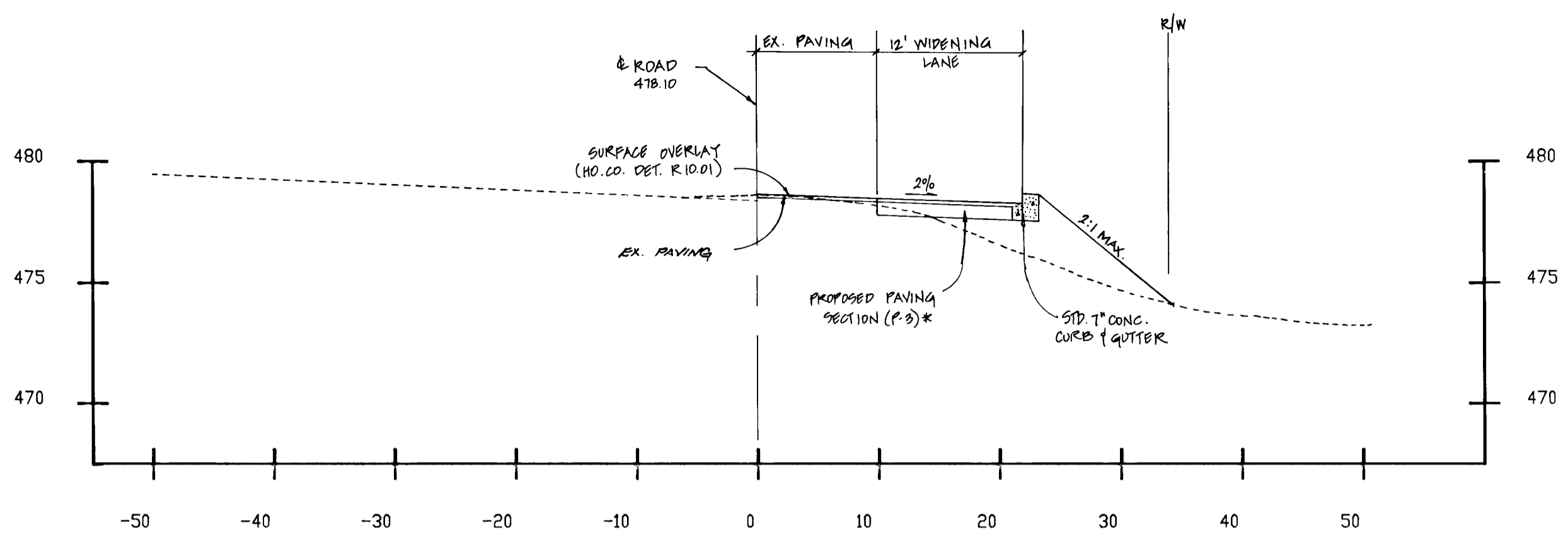
1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 ELLETT CITY, MARYLAND 21041
 (410) 481-2855

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DIFFENDAL
 1920 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 C/O MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE 705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21092

APPROVED DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Highways *Michael M. Daniels* 2-20-97
 DATE
 APPROVED DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development *Michael Blood* TC 3/5/97
 DATE
Mark Dammeyer 2/25/97
 Chief, Electrical & Engineering Division *VJC* DATE



* PAVING SECTION TO BE (P.S) PER HOWARD COUNTY DETAIL R2-01

CROSS SECTIONS
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 5'

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1100 W. GREENWOOD AVENUE
 ELK LUTHER CITY, MARYLAND 21042
 4101 486 - 2855

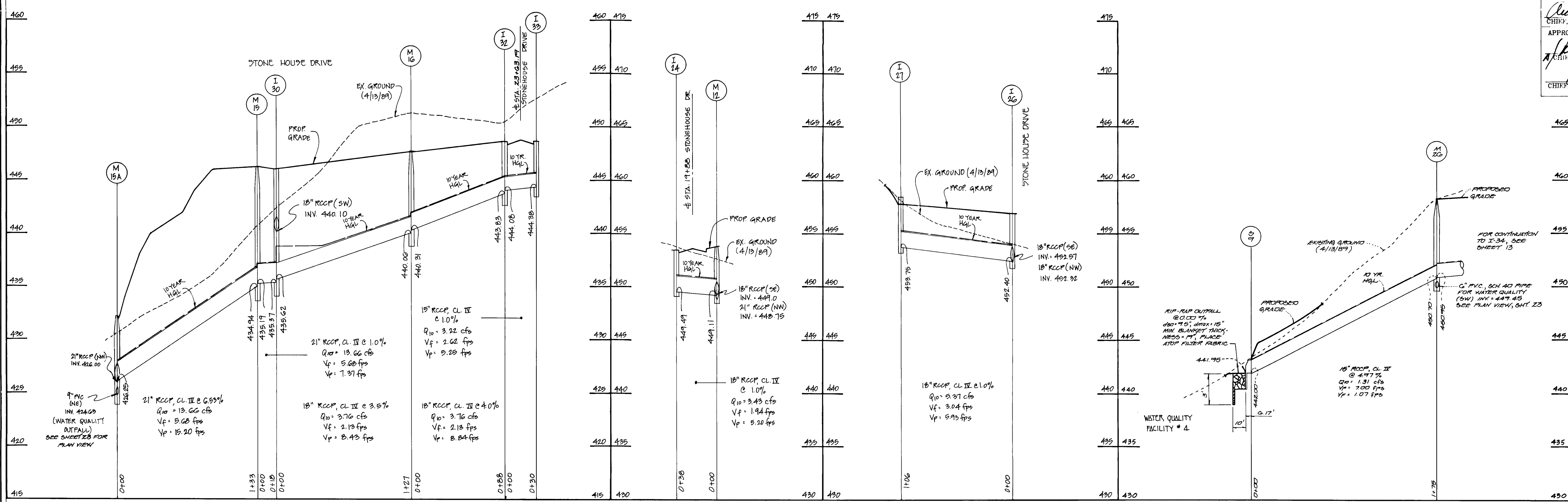
OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DITTENDAL
 11900 TECH ROAD
 SILVER SPRING, MARYLAND 20994

DEVELOPER
 THE RYLAND GROUP
 C/O MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE # 705, 1147 YORK ROAD
 LUTHERVILLE, MARYLAND 21092

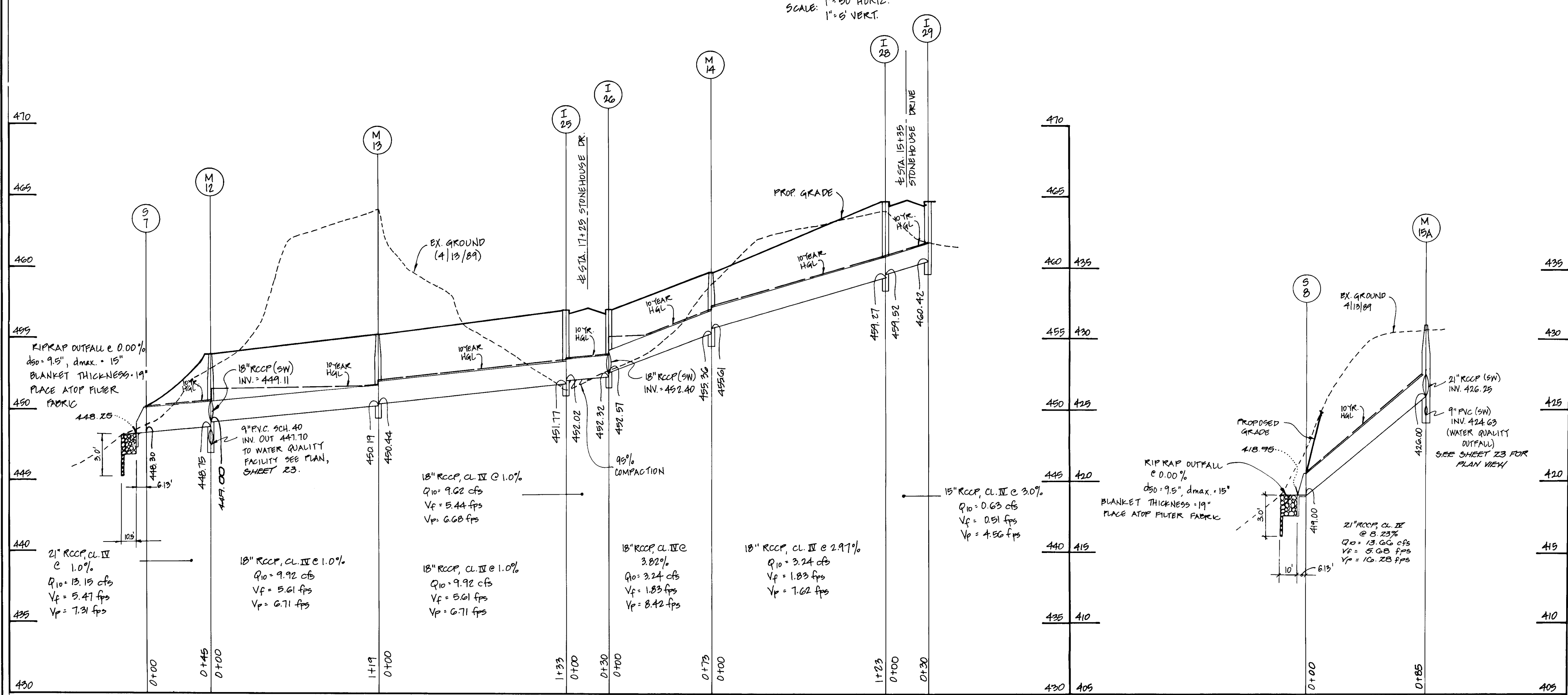


CROSS SECTIONS - OLD FREDERICK ROAD
DANIELS MILL OVERLOOK
 SECTION 2 AREA 3
 LOTS 131 THRU 176 AND PARCEL 'B'
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 9 OF 25

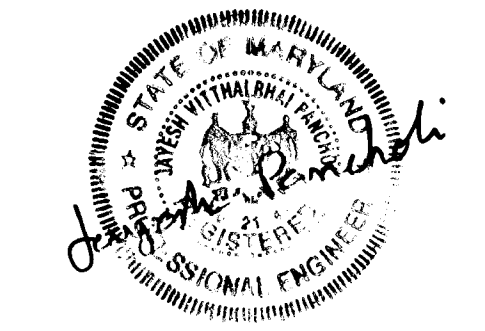
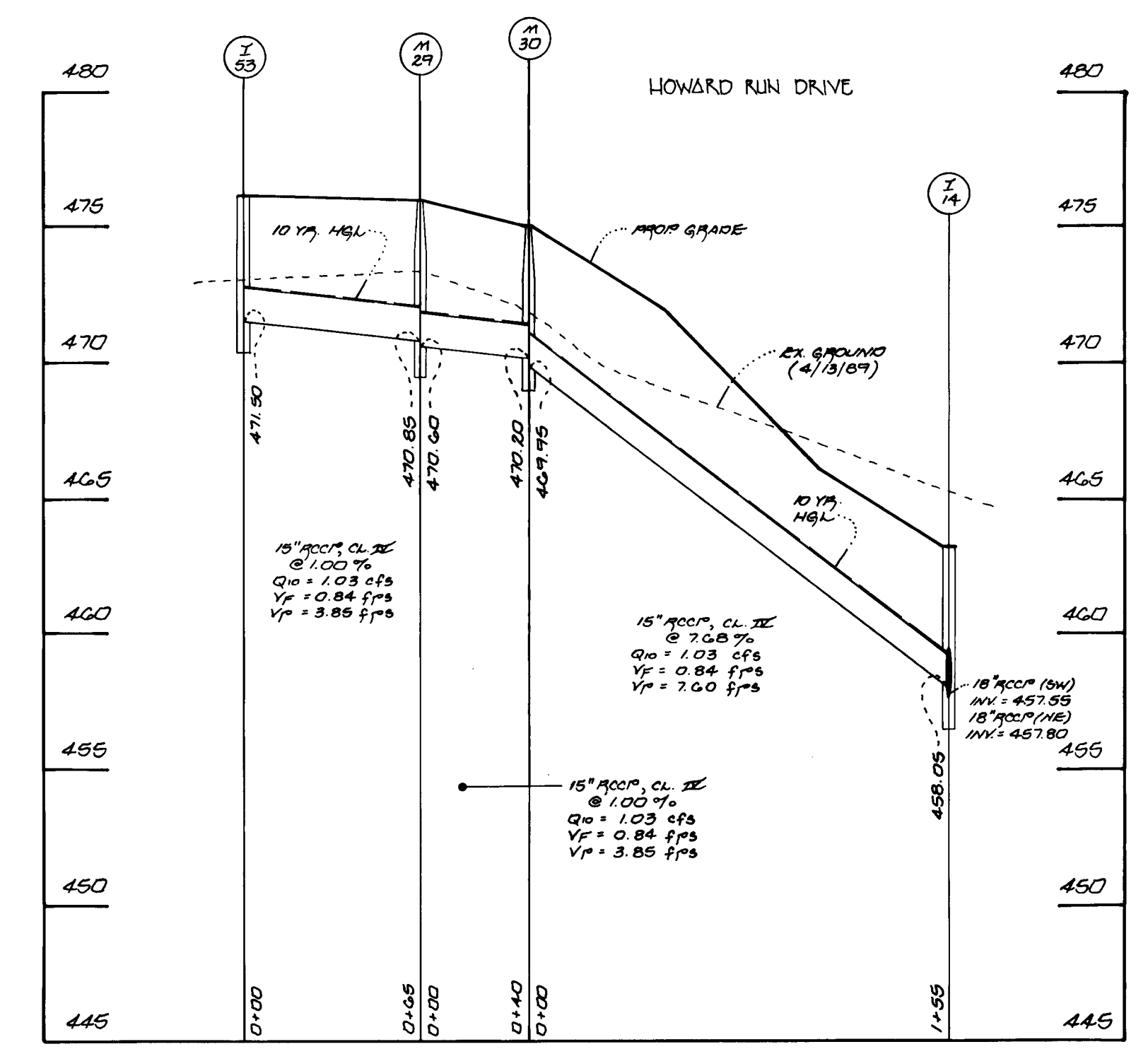
SCALE: AS SHOWN DATE: AUG. 27, 1996



PROFILES
 SCALE: 1" = 50' HORIZ.
 1" = 6' VERT.



PROFILES
 SCALE: 1" = 50' HORIZ.
 1" = 6' VERT.



STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 2 AREA 5
 LOTS 131 THRU 176 AND PARCEL 'B'
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 14 OF 25

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DIFFENDAL
 1900 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21078

SCALE: AS SHOWN DATE: AUG 27, 1996

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 W. BROAD STREET, SUITE 200
 BELTSVILLE, MARYLAND 21054
 (410) 481-2885

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. Dwyer 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

W.D. Dummer 2/25/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



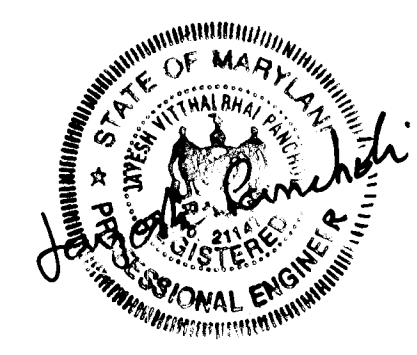
DRAINAGE AREAS					
INLET	D.A.	AREA AC.	C	ZONED	XIMP
I-16	K	0.43	0.28	R-ED	5.0
I-15	L	1.40	0.26	R-ED	150
I-14	M	0.13	0.68	R-ED	62.0
I-13	N	0.32	0.82	R-ED	81.0
I-12	O	2.32	0.29	R-ED	25.0
I-11	P	0.23	0.65	R-ED	57.0
I-17	Q	0.95	0.50	R-ED	36.0
I-18	R	0.36	0.62	R-ED	53.0
I-19	S	3.53	0.27	R-ED	3.0
I-20	T	0.51	0.50	R-ED	35.0
I-21	U	0.44	0.54	R-ED	40.90
I-22	V	0.35	0.59	R-ED	49.0
I-23	W	0.75	0.42	R-ED	24.0
I-24	X	2.34	0.27	R-ED	3.0
I-25	Y	0.11	0.57	R-ED	45.0
I-26	Z	0.84	0.39	R-ED	20.0
I-27	AA	2.95	0.30	R-ED	7.0
I-28	BB	0.93	0.45	R-ED	29.0
I-29	CC	0.22	0.44	R-ED	27.0
I-30	DD	0.60	0.48	R-ED	33.0
I-31	EE	3.71	0.29	R-ED	6.0
I-32	FF	0.40	0.58	RSA-B	48.0
I-33	GG	1.47	0.31	RSA-B	9.0
I-34	HH	0.28	0.40	RSA-B	21.0
I-35	II	0.23	0.43	RSA-B	26.0
I-36	JJ	0.81	0.50	RSA-B	36.0
I-37	KK	0.18	0.79	RSA-B	78.0
I-38	LL	0.36	0.44	RSA-B	28.0
I-39	MM	0.47	0.51	RSA-B	38.0
I-53	AAA	0.30	0.53	RSA-B	40.0

NOTE: THIS PLAN IS FOR DRAINAGE AREAS ONLY

LEGEND

- D.A. TO SHALLOW MARSH
- D.A. TO STORM DRAINS
- D.A. TO CHECK DAMS

PLAN
 SCALE 1" = 100'



DRAINAGE AREA MAP
DANIELS MILL OVERLOOK
 SECTION 2 AREA 3
 LOTS 131 THRU 176 AND PARCEL 'B'
 ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 15 OF 25

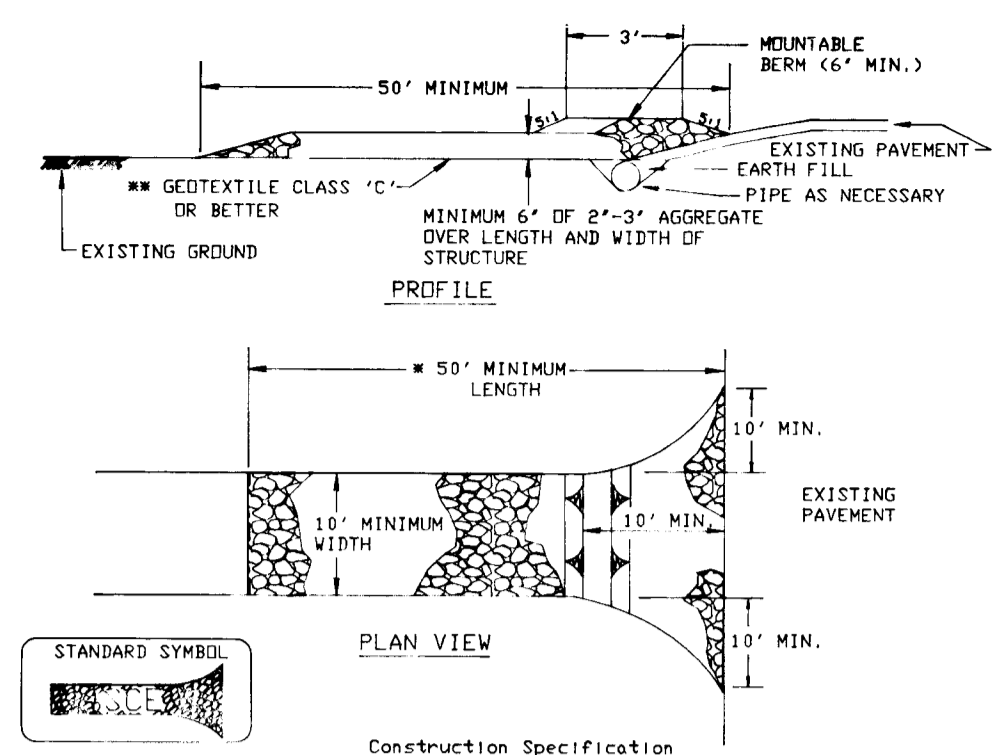
SCALE: AS SHOWN DATE: AUG. 27, 1996

1783

FISHER, COLLINS & CARTER, INC.
 ENGINEERS, ARCHITECTS & LAND SURVEYORS
 970 BALTIMORE NATIONAL PKWY. SUITE 100
 ELKLOTT CITY, MARYLAND 20912
 4100 WIL - 2805

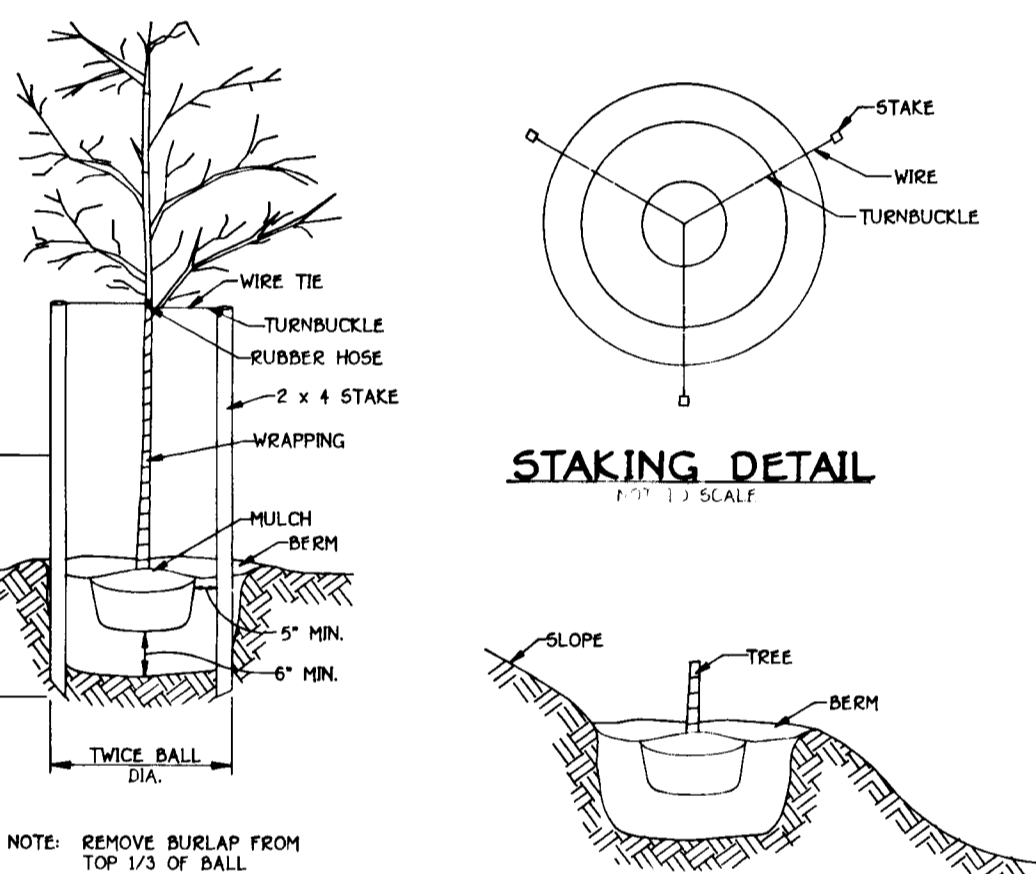
OWNER
 DANIELS MILL OVERLOOK, LLC
 c/o MR. MICHAEL DITTMAN
 11900 TECH ROAD
 SUITE #705
 68 VER OFFICE, MARYLAND 21094

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705
 1117 YORK ROAD
 LUTHERVILLE, MARYLAND 21093



- Construction Specifications**
- Length - minimum of 50' (#30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile Fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE

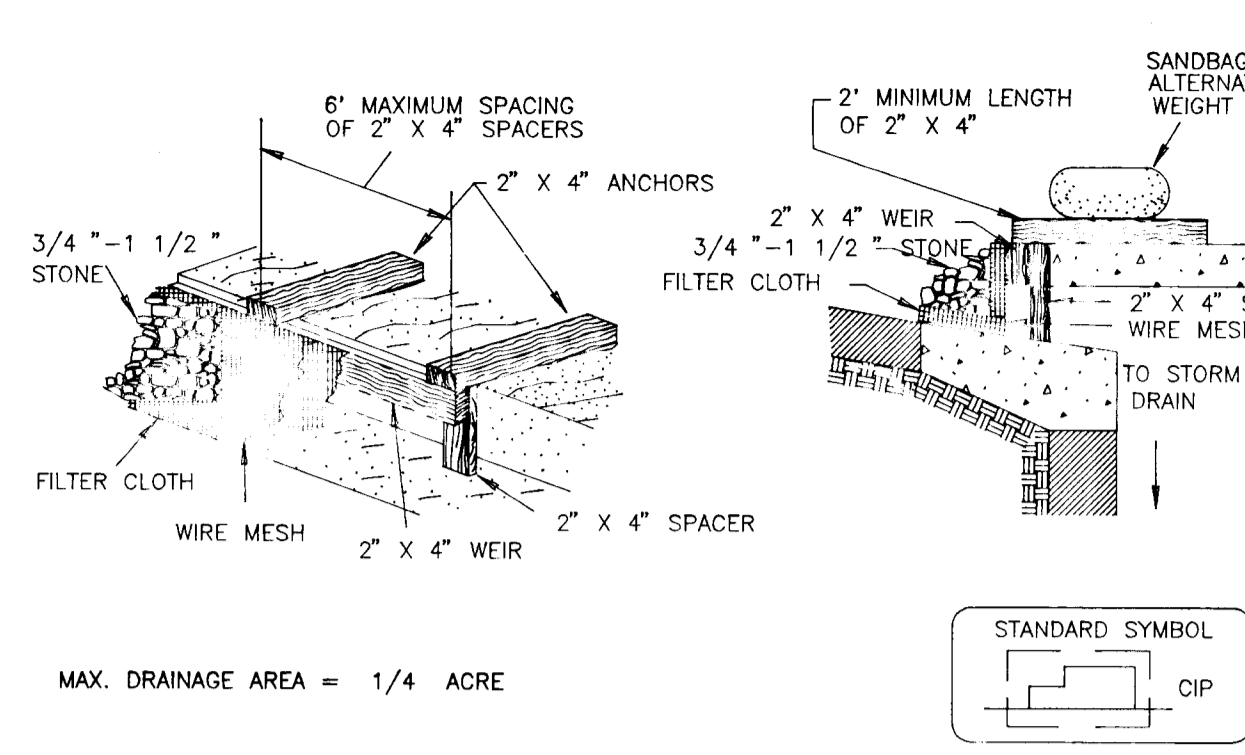


TREE PLANTING
NOT TO SCALE

GRADING FOR PLANTING ON SLOPES
NOT TO SCALE

- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-3955).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - 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.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS**
TOTAL AREA OF SITE: 25.873 ACRES
AREA DISTURBED: 14.960 ACRES
AREA TO BE ROOFED OR PAVED: 1.24 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 1.55 ACRES
TOTAL CUT: 35,000 CU.YDS.
TOTAL FILL: 10,000 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION: N/A CU.YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY OR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DETERMINED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - 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 CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 - TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
11000 TECH ROAD
SILVER SPRING, MARYLAND 20904
(410) 481-2855



- Construction Specifications**
- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4' apart).
 - Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

STANDARD CURB INLET PROTECTION
NOT TO SCALE

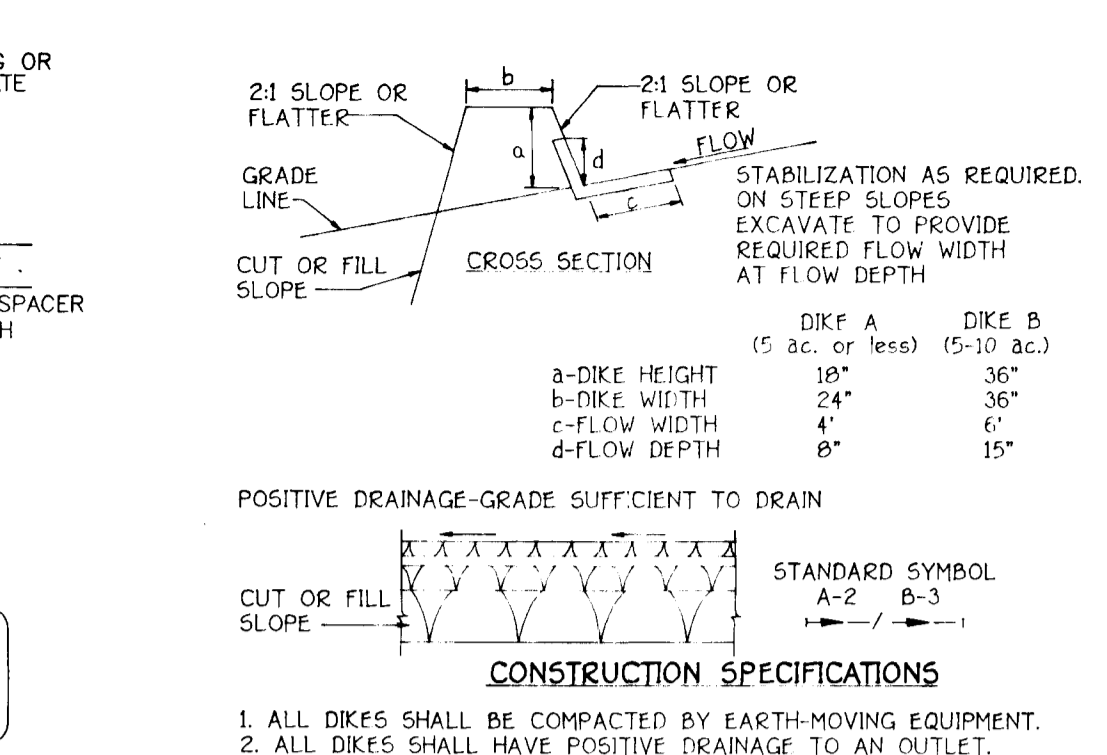
20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION
Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas, and improving wildlife habitat and visual resources.

PURPOSE
This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (0 up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dms, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

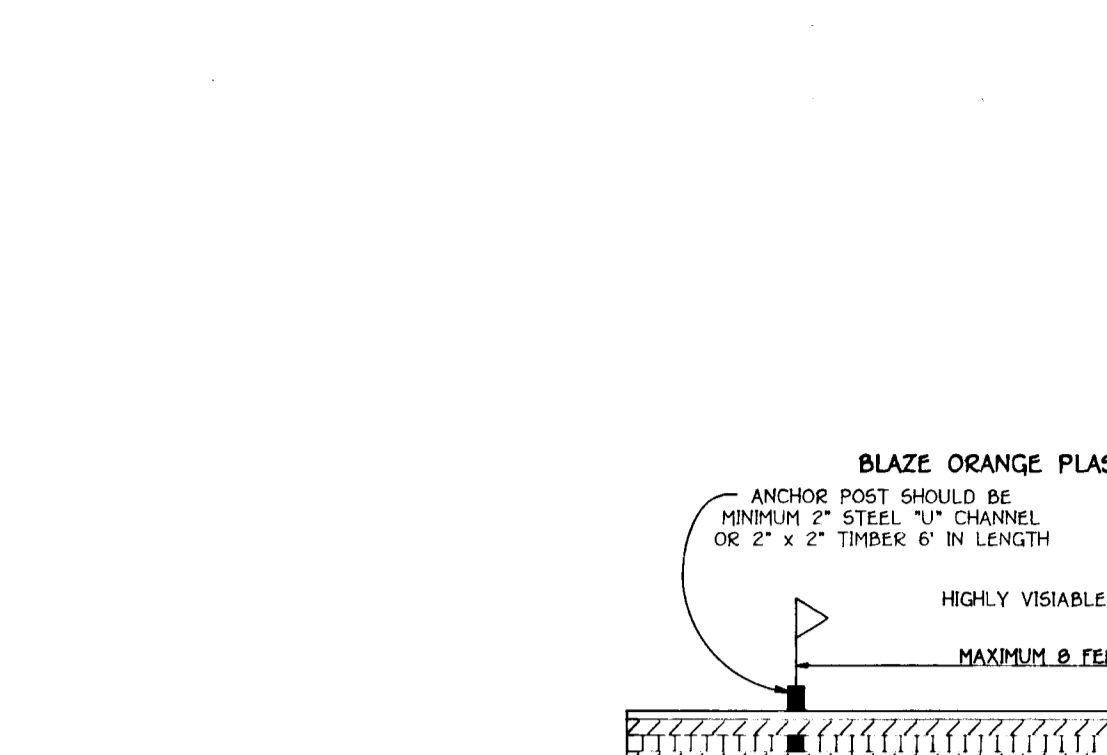
CONDITIONS WHERE PRACTICE APPLIES
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

- SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS**
- Site Preparation**
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
 - Soil Amendments (Fertilizer and Lime Specifications)**
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee of the producer.
 - Lime materials shall be ground limestone (hydrated or burnt lime may be substituted which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 99-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
 - Seeded Preparation**
 - Temporary Seeding**
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughest condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
 - Permanent Seeding**
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay, but enough fine grained material (30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loess or erodible loess is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required.
 - In accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.



- CONSTRUCTION SPECIFICATIONS**
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT IMMEDIATELY STABILIZED.
 - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A | DIKE B |
|-------------------|---------------|----------------------------------|---|
| 1 | 5-3.0% | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.0% | SEED AND STRAW MULCH | SEED USING JUTE, OR EXCEL SOD; 2" STONE |
| 3 | 5.1-8.0% | SEED WITH JUTE, OR SOD; 2" STONE | LINED RIP-RAP 4"-8" |
| 4 | 8.1-20% | LINED RIP-RAP 4"-8" | ENGINEERING DESIGN |
- FLOW CHANNEL STABILIZATION**
- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 - RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 - APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
- 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.**

EARTH DIKE
NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS**
- FOREST PROTECTION DEVICE ONLY.
 - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - ROOT DAMAGE SHOULD BE AVOIDED.
 - PROTECTIVE STORAGE MAY ALSO BE USED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL
NOT TO SCALE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL 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 INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Joseph Buncholi 8-27-96
SUPERVISOR OF ENGINEER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Joseph Buncholi 8/28/96
REGISTERED PROFESSIONAL ENGINEER DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Chief Summer 8/12/97
HOWARD COUNTY SOIL CONSERVATION SERVICE DATE

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

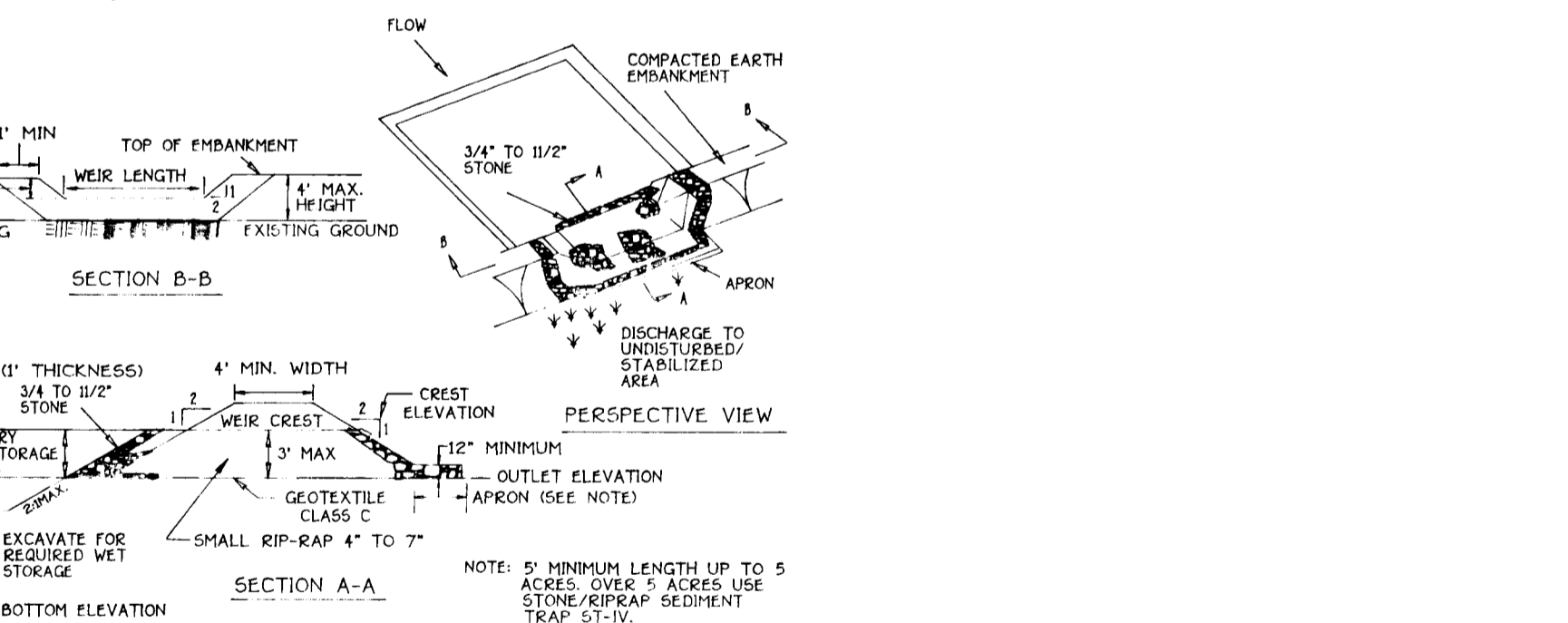
APPROVED: *John R. Peltus* 2/12/97
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John Peltus 2/28/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Cavale 2-20-97
CHIEF, BUREAU OF HIGHWAYS DATE

- Incremental Stabilization - Cut Slopes**
- All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Note:** Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization.
- Incremental Stabilization of Embankments - Fill Slopes**
- Embankments shall be constructed in lifts as prescribed on the plans.
 - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as prescribed in the plans.
 - At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.
 - Construction sequence: Refer to Figure 4 (below).
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the embankment. Construct slope fill fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
 - Place Phase 1 embankment, dress and stabilize.
 - Place Phase 2 embankment, dress and stabilize.
 - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.
- Note:** Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.



- Construction Specifications**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small rip-rap 4" to 7" in size with a 1" thick layer of 3/4" to 1 1/2" washed aggregate placed on the upstream face of the outlet. Stone facing shall be as necessary to prevent chipping. Geotextile Class C may be substituted for the stone facing by placing it on the inside face of the outlet.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.

DETAIL 9 - STONE OUTLET SEDIMENT TRAP - 5T II

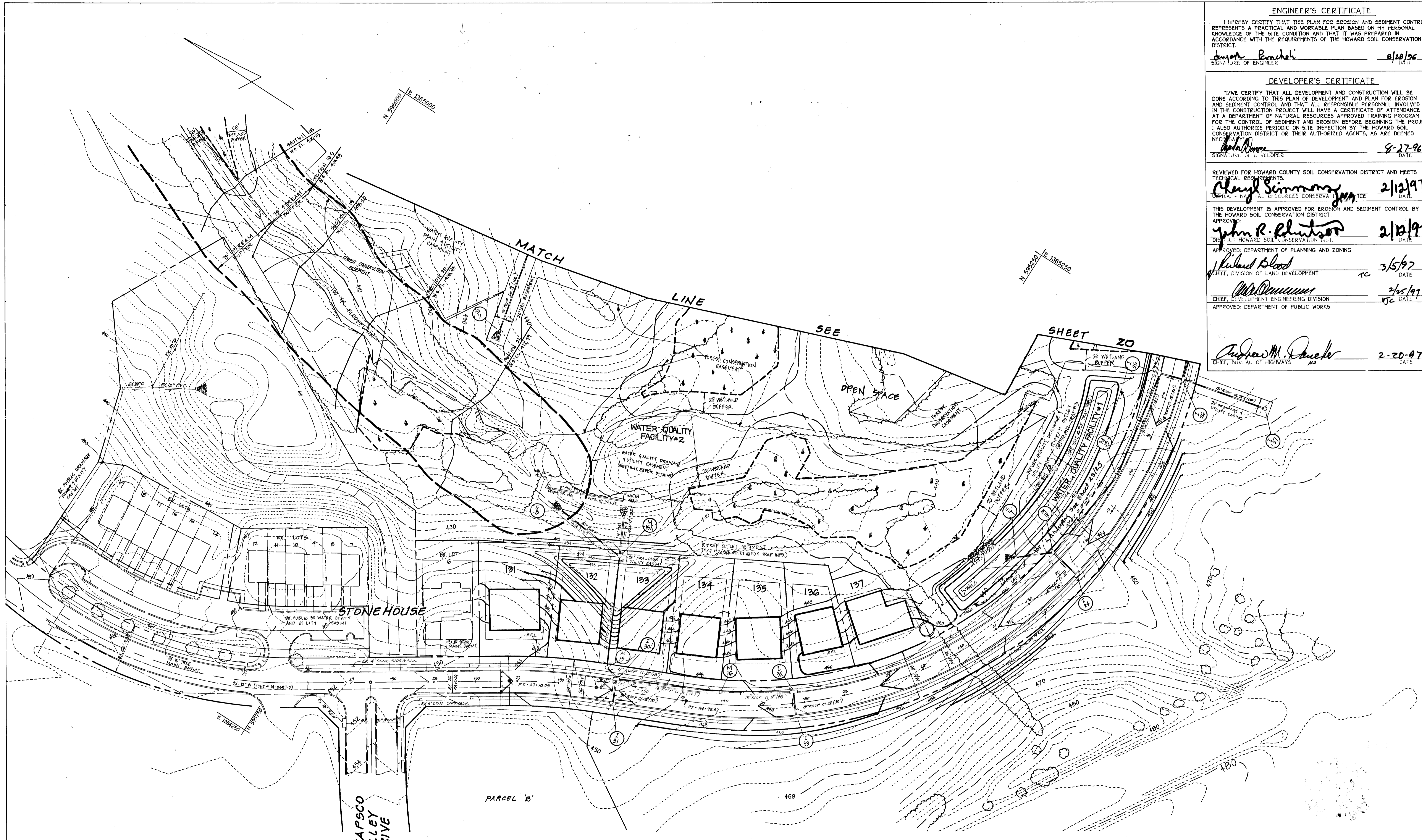
SEDIMENT CONTROL NOTES AND DETAILS

DANIELS MILL OVERLOOK
SECTION 2 AREA 3
LOTS 121 THRU 116 AND PARCEL 'B'
ZONED: R-ED
TAX MAP NO. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUG. 27, 1996
SHEET 17 OF 25

OWNER
DANIELS MILL OVERLOOK, L.L.C.
C/O MR. MICHAEL DIFFENDAL
15900 TECH ROAD
SILVER SPRING, MARYLAND 20904

DEVELOPER
THE IRVING GROUP
ATTENTION: MR. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE #1705
4417 YORK ROAD
LUTHERVILLE, MARYLAND 21048

1783



ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Joseph Bencich 8/28/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I/WE 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
John R. Bluntson 8-27-96
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 2/12/97
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Bluntson 2/12/97
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Bluntson 2/25/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Ducker 2-20-97
 CHIEF, BUREAU OF HIGHWAYS DATE

LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 2 AREA 3
 LOTS 131 THRU 176
 AND PARCEL 'B'
 TAX MAP No: 17 PARCEL: 41 B 547
 ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: AUG 27, 1996
 SHEET 19 OF 25

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLERIA TOWERS
 SUITE #705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DIFFENDAL
 11900 TECH ROAD
 SILVER SPRING, MARYLAND 20904



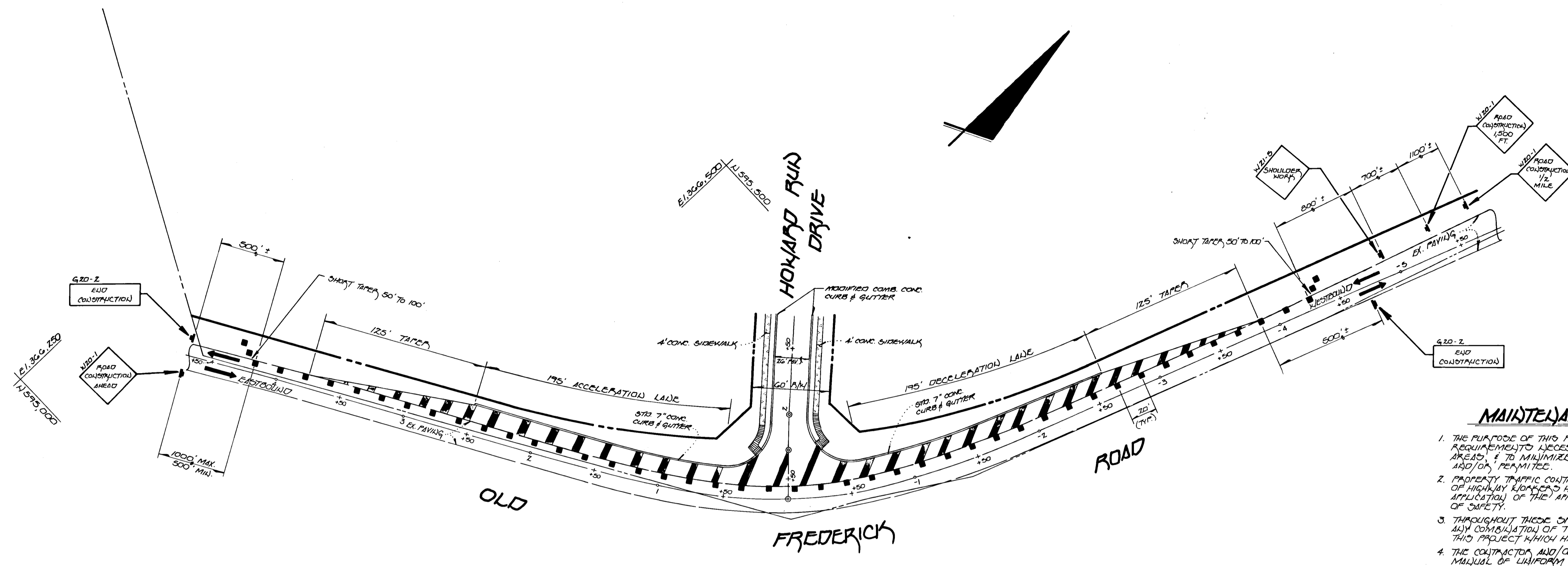
1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1100 W. WASHINGTON AVENUE
 ELLETTTS CITY, MARYLAND 20622
 410-461-2825

APPROVED DEPARTMENT OF PUBLIC WORKS
Richard M. Daniels 2-20-97
 CHIEF, BUREAU OF HIGHWAYS NS DATE

APPROVED DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT TC DATE

Mr. Daumier 2/15/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION JTC DATE



LEGEND

- CHANGELINE DEVICES
- SIGN SURFACE
- FACE OF CURB
- DIRECTION OF TRAFFIC
- LIMIT OF PAVING SECTION

PLAN
 SCALE 1" = 50'

MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

1. THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISIONS IS TO SET FORTH THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE & EFFICIENT MAINTENANCE TO TRAFFIC WITHIN WORK AREAS, & TO MINIMIZE ANY INCONVENIENCE TO THE TRAVELING PUBLIC & THE CONTRACTOR AND/OR PERMITTEE.
2. PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY & FLOW OF HIGHWAY TRAFFIC AND THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT, THE PROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL DEVICES WHICH FORM THE OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
4. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, & TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS (JANUARY, 1982), INCLUDING ALL REVISIONS & SUPPLEMENTS TO EACH.
5. THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FORTH IN THE TCP & THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
6. NO WORK SHALL BEGIN ON ANY WORK AREA UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS & DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY & CORRECTLY IN PLACE & HAVE BEEN CHECKED FOR APPROVED USAGE.
7. GENERAL & SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS & ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC AND ANY ADDITIONAL SIGNS MUST BE APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNS & OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED.
8. THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN WORK CONDITION, & MOVE WHEN NECESSARY OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE & PROTECTION OF MOTORISTS, PEDESTRIANS, & WORKERS.
9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE SET IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP. THE MUTCD AND SECTION 814 OF THE SPECIFICATIONS, FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS A REFLECTIVE CAPABILITY OF AT LEAST 50% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 30% OF THE VISIBLE REFLECTIVE SURFACE.
10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT AREA FOR THE DEVICE.
11. THROUGHOUT THE PERIOD(S) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPROVING THE APPROVED TCP IN USE OF THE TCP PREPARED FOR THIS PROJECT AND/OR ADDITIONAL TYPICAL TRAFFIC CONTROL STANDARDS. THE CONTRACTOR AND/OR PERMITTEE HAS THE OPTION OF PROPOSING & COMMITTING A TCP WHOLLY OR IN PART OF HIS OWN DESIGN, FOLLOWING GUIDELINES SET FORTH IN THE MUTCD PRESCRIBED BY THE ADMINISTRATION. A TCP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE SHALL NOT BE IMPLEMENTED UNTIL ADVANCE WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TCP'S MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN OUTSTANDING WORKS TCP'S ARE JOINTLY DEVELOPED, CARE SHALL BE EXERCISED TO PRESENT CORRECT & NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED THIS MEANS THE POSTED SPEED OR TRAVELING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE NOTED.
13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTED. UNLESS OTHERWISE SPECIFIED, TRAFFIC IS MAINTAINED FOR POSSIBLE THROUGH THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL IMPROVEMENTS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.



TRAFFIC CONTROL PLAN
DANIELS MILL OVERLOOK
 SECTION 2 AREA 3
 LOTS 151 THRU 176 AND PARCEL 'B'

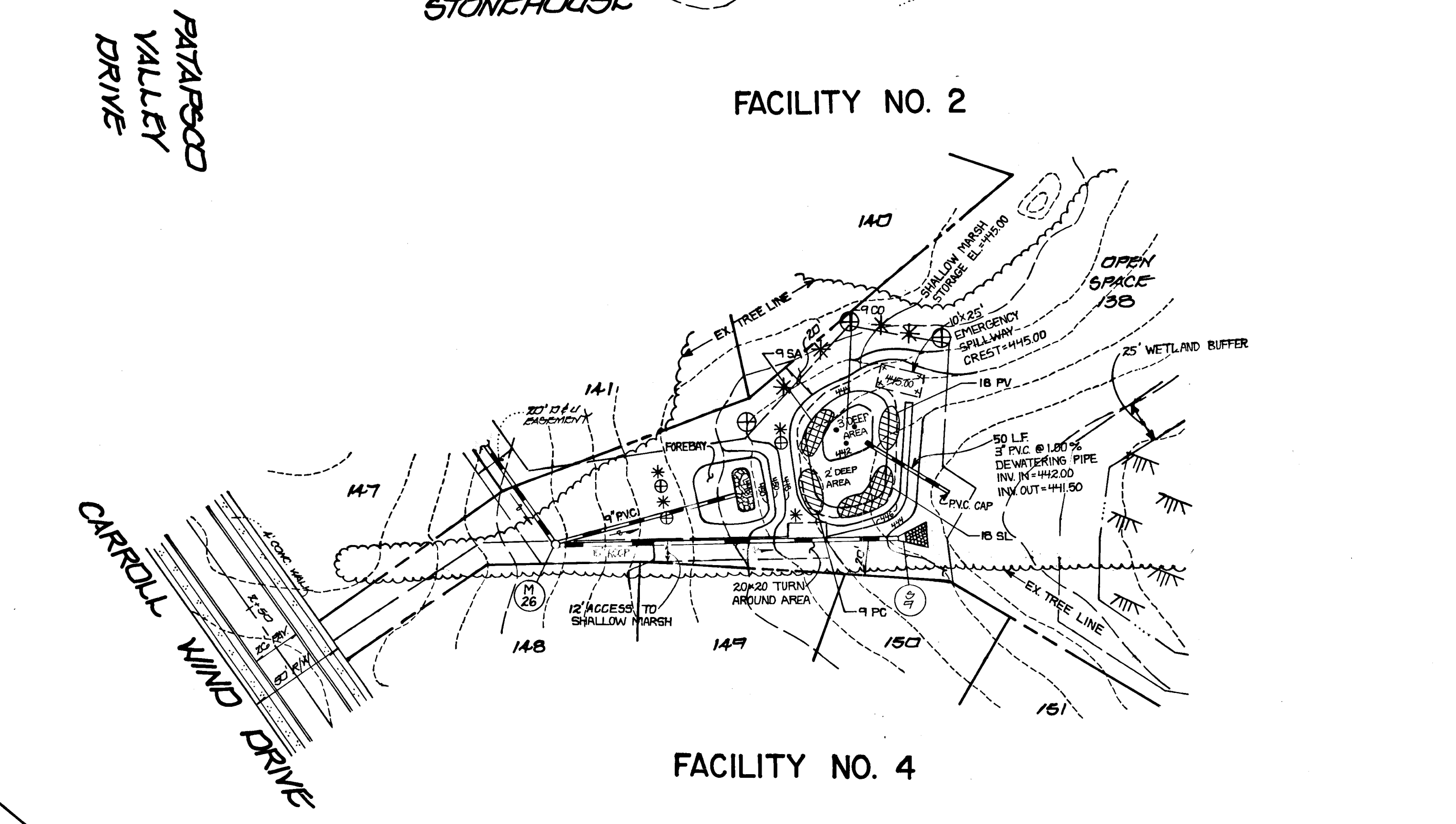
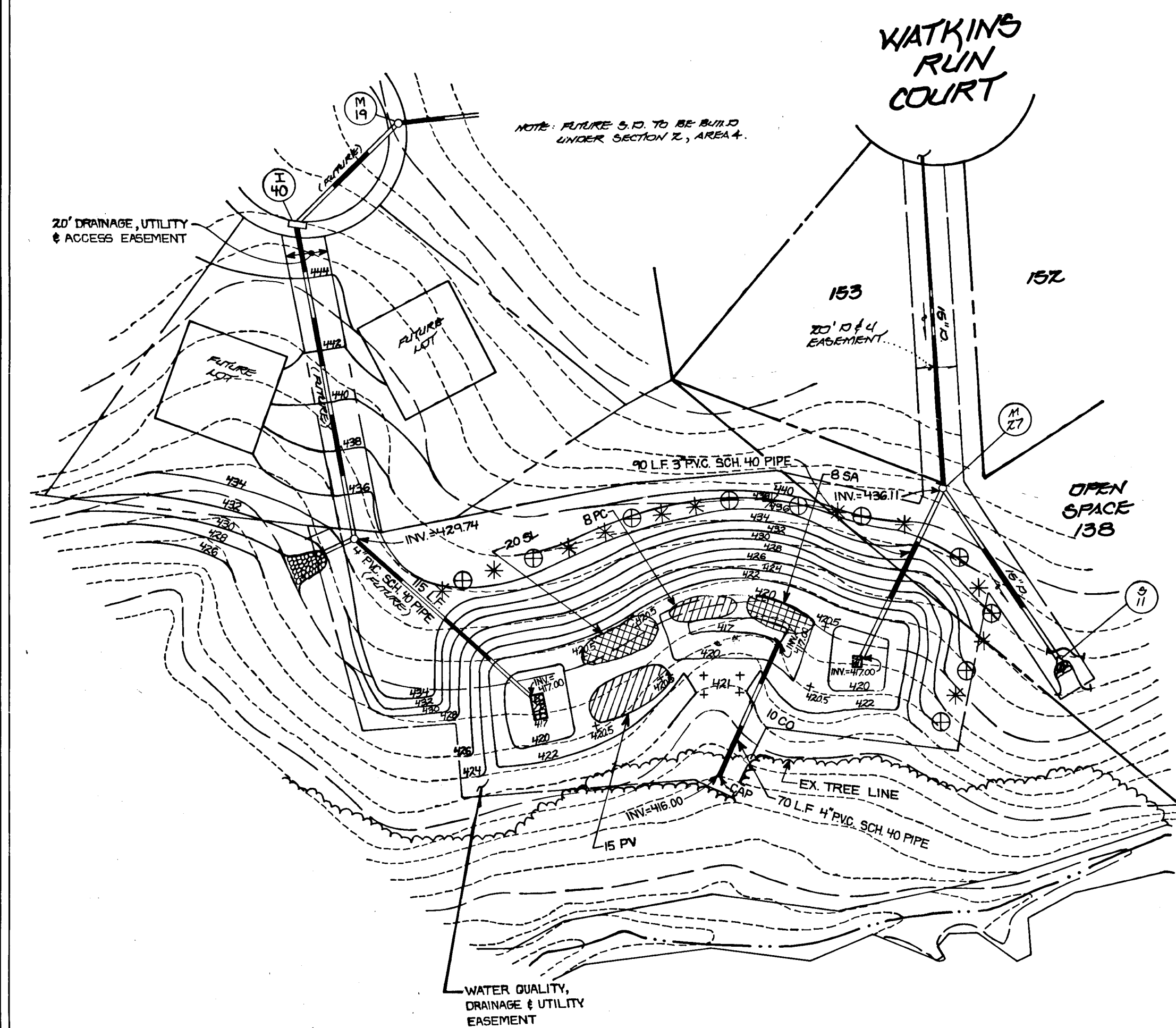
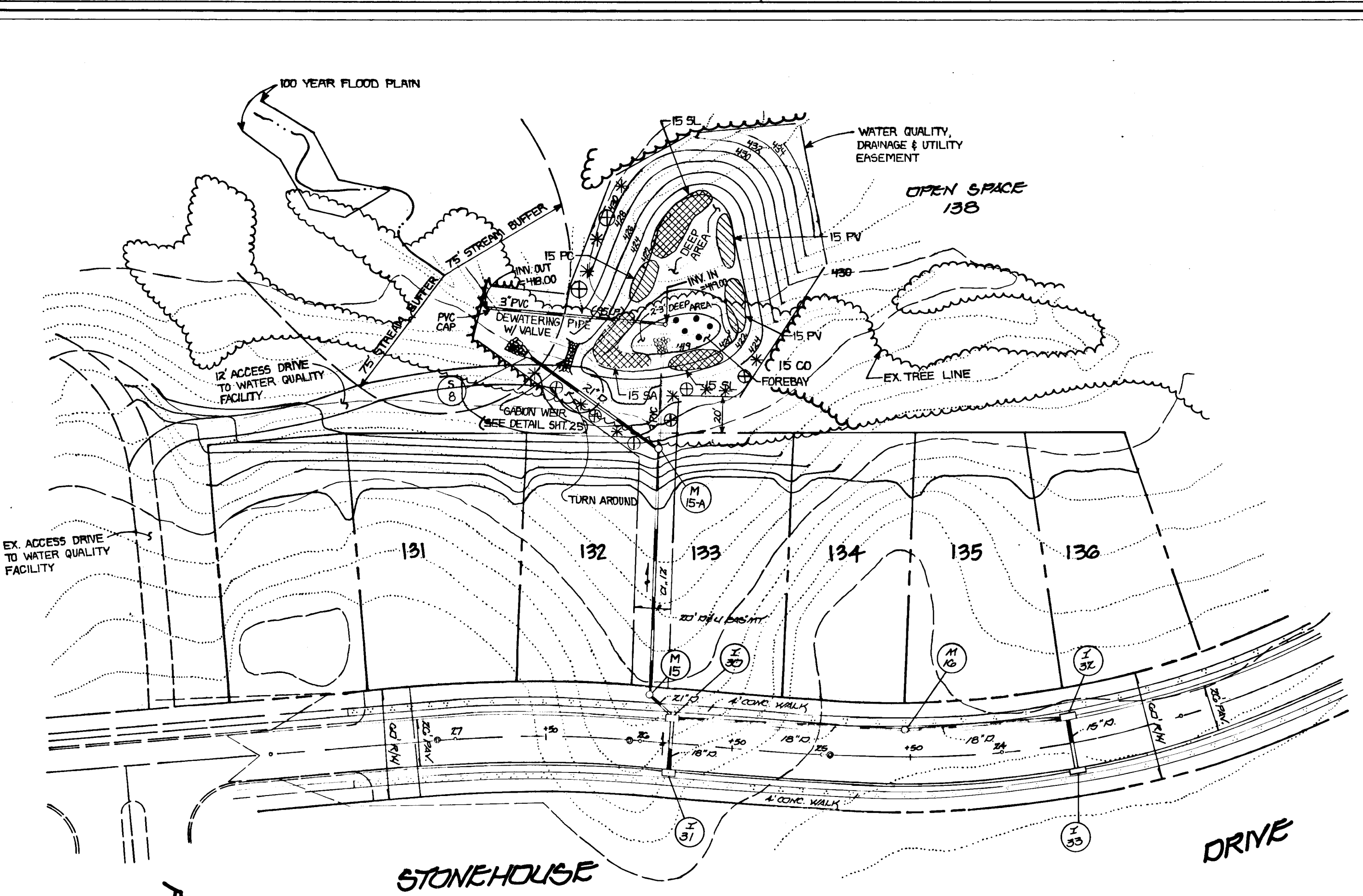
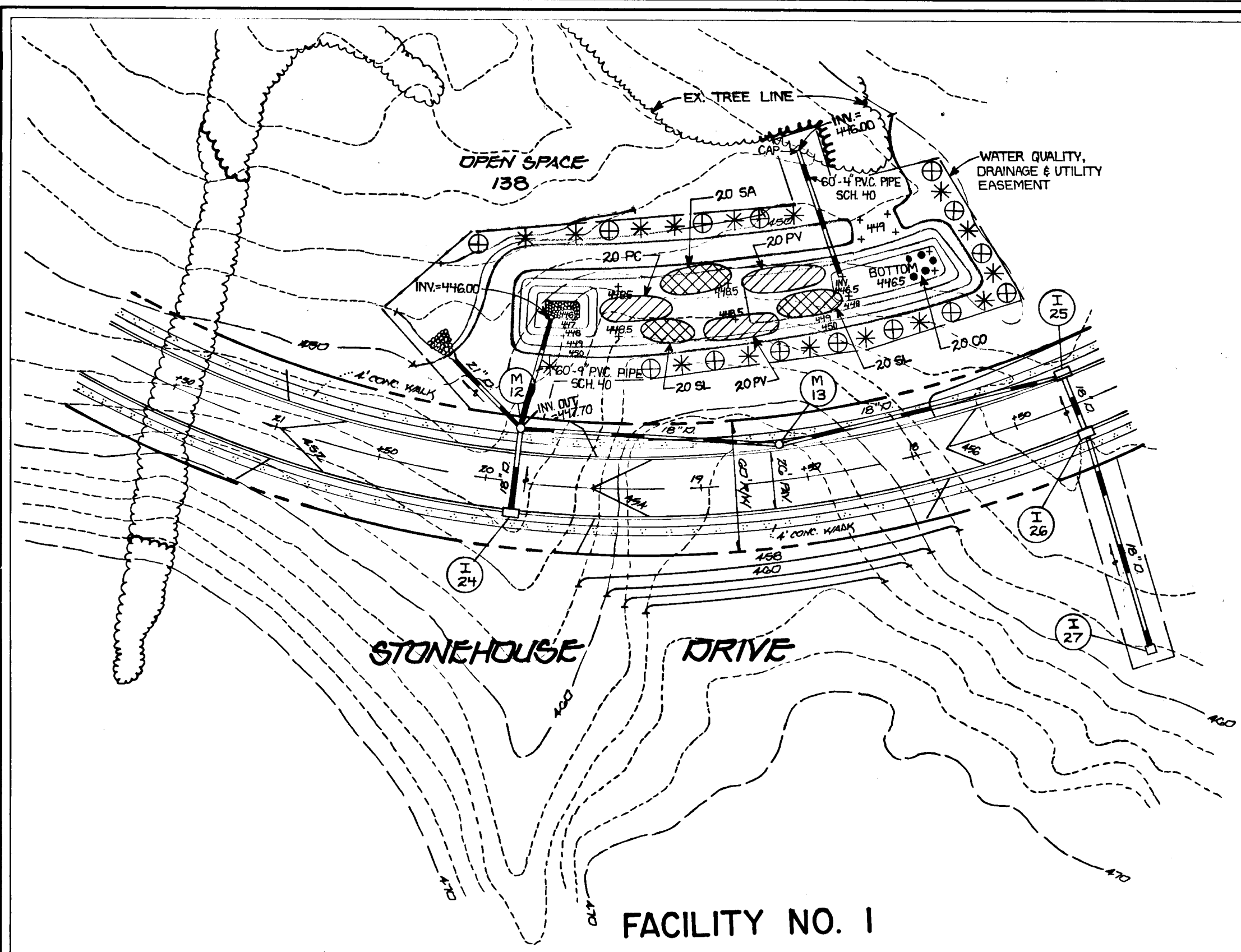
OWNER
 DANIELS MILL OVERLOOK, LLC
 670 THE MICHAEL BRYDENAL
 1920 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALLIA TOWERS, SUITE #705
 1147 YORK ROAD
 LUTHERVILLE, MARYLAND 21095

ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 22 OF 25
 SCALE: AS SHOWN DATE: AUG. 27, 1996

1783

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10117 W. SOUTHWEST DRIVE, SUITE 200, BUCKLE UP NATIONAL PARK
 ELLESMERE CITY, MARYLAND 21031
 410.466.2855



FACILITY NO. 3

FACILITY NO. 4

FACILITY NO. 1

FACILITY NO. 2

WATER QUALITY FACILITIES

PLANS

SCALE: 1"=50'

OWNER

DANIELS MILL OVERLOOK, LLC
C/O MR. MICHAEL DUFFENDAL
1900 TECH ROAD
SILVER SPRING, MARYLAND 20994

DEVELOPER

THE RYLAND GROUP
ATTENTION: MR. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE 4705
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21093

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Joseph Burcholi 8/28/96
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HAVE CERTIFIED 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John P. Roberts 8-27-96
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 2/12/97
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John P. Roberts 2/12/97
DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chris Dammann 2/25/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Daniels 2-20-97
CHIEF, BUREAU OF HIGHWAYS DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ PE. NO. _____
DATE _____

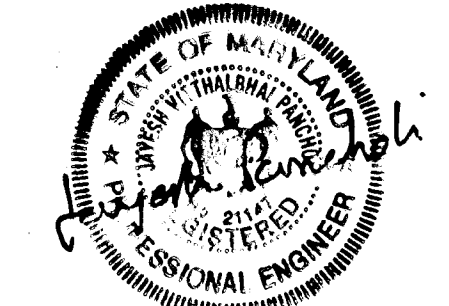
CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEANOR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF PONDS(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SC5 "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNERS(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNERS(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH

1. INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
2. REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
3. ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED. VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANYTIME.
4. CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
5. NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.

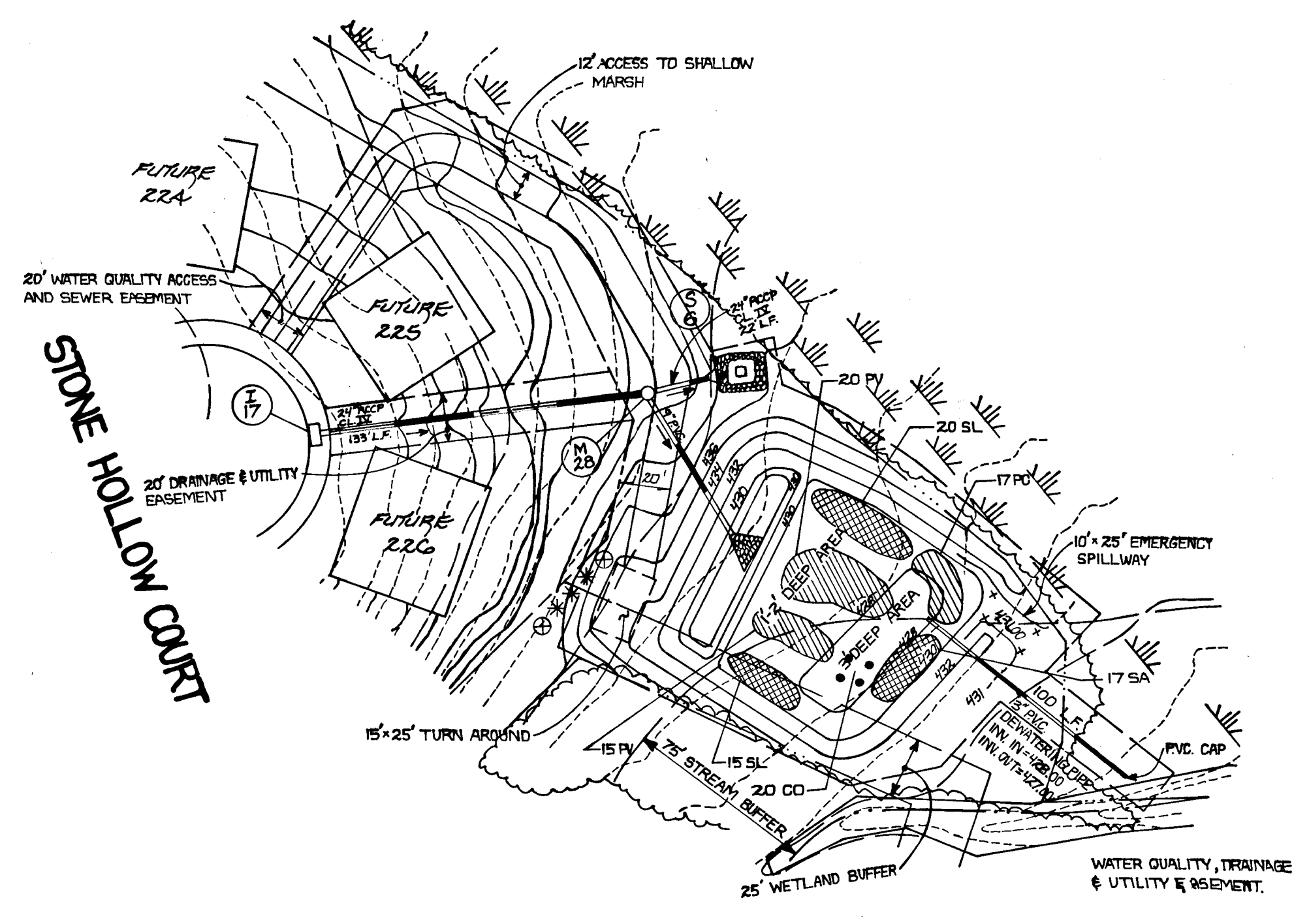


WATER QUALITY DANIELS MILL OVERLOOK

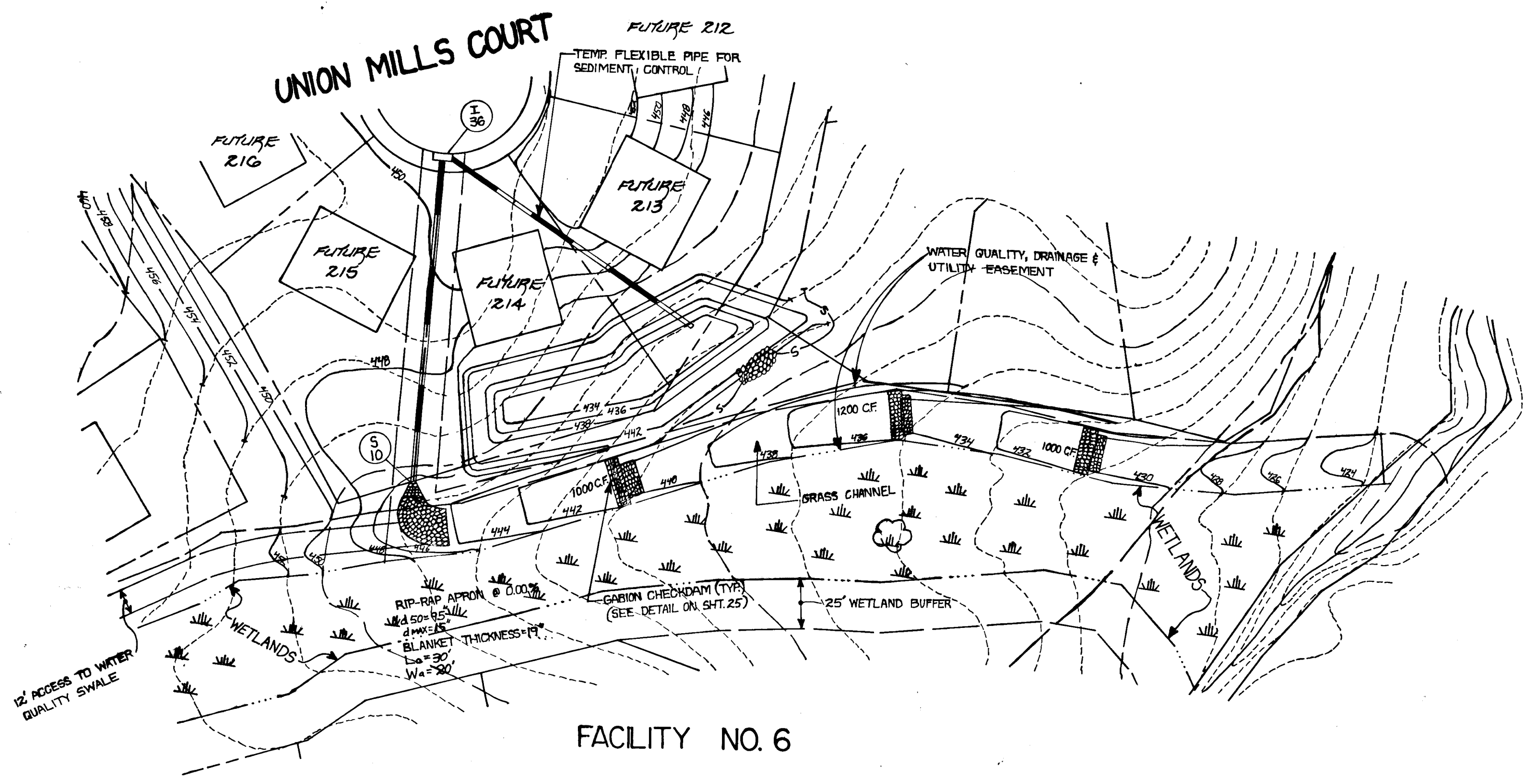
SECTION 2 AREA 3
LOTS 131 THRU 176 AND PARCEL 'B'
ZONED Q-D
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 23 OF 25
DATE: AUGUST 27, 1996

1783

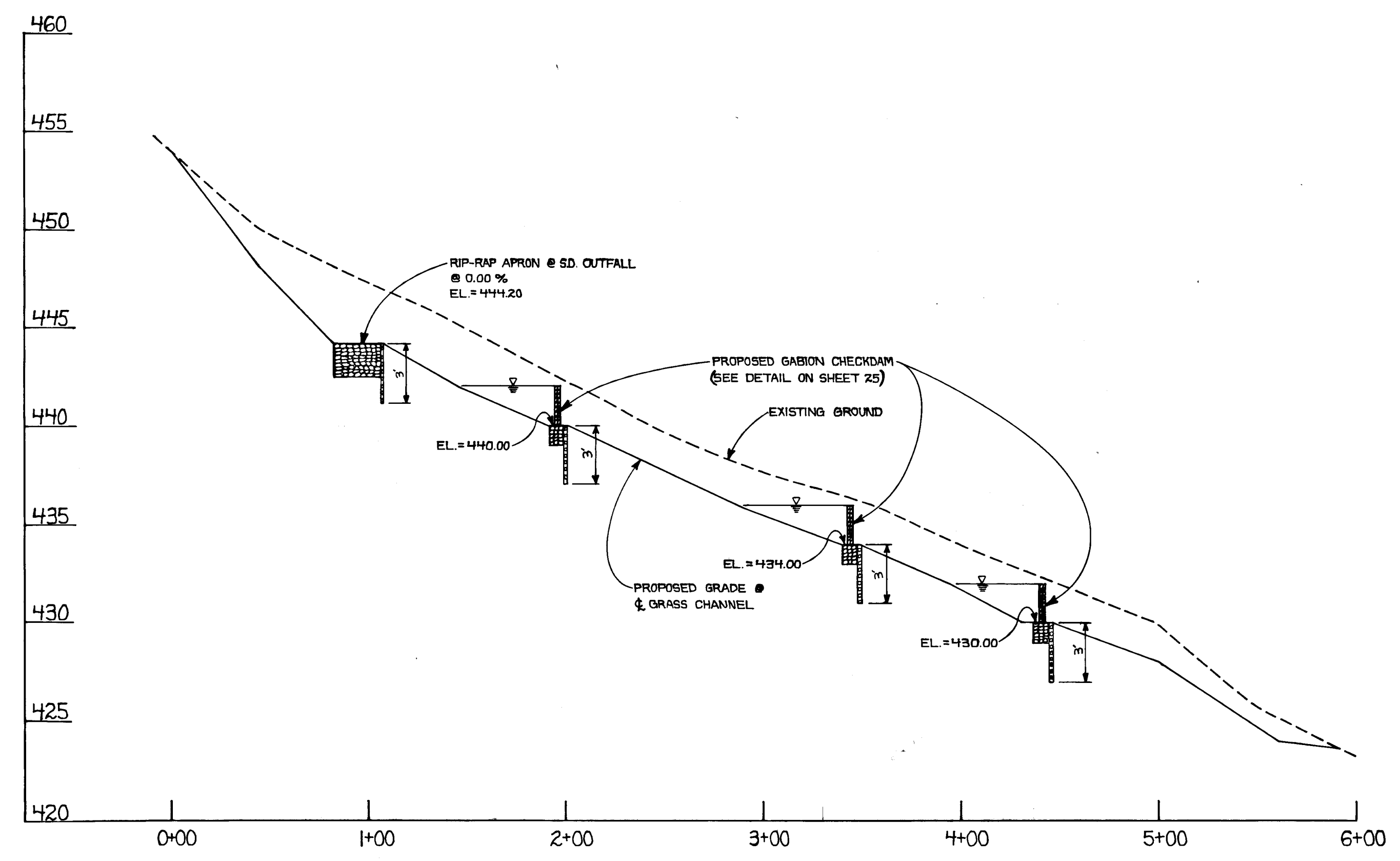
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1000 481 - 2855



FACILITY NO. 5



FACILITY NO. 6



1787

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
 ELICOTT CITY, MARYLAND 21041
 410.486.2855

OWNER
 DANIELS MILL OVERLOOK, LLC
 C/O MR. MICHAEL DIFFENDAL
 1800 TECH ROAD
 SILVER SPRING, MARYLAND 20904

DEVELOPER
 THE RYLAND GROUP
 ATTENTION: MR. CHARLES O'DONOVAN
 GALERIA TOWERS
 SUITE #705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21045

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Engineer: *James P. Bankoh* DATE: 8/28/96

DEVELOPER'S CERTIFICATE
 I/WE 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 Signature of Developer: *Mike Brown* DATE: 8-27-96

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS ALL REQUIREMENTS.
 Signature: *Cheryl Summers* DATE: 2/12/97
 SCSA - NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John R. Chuteau* DATE: 2/12/97
 DISTRICT HOWARD SOIL CONSERVATION DIST.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *Richard Blood* DATE: 3/5/97
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *Mike Deamus* DATE: 2/25/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

AS-BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.
 Signature: *Andrew M. P. Smith* DATE: 2-20-97
 CHIEF, BUREAU OF HIGHWAYS

OPERATION, MAINTENANCE AND INSPECTION
 INSPECTION OF PONDS(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (HD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

- HOMEOWNERS ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH**
- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
 - REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
 - ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED.
 - VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANYTIME.
 - CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
 - NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.



DANIELS MILL OVERLOOK
 SECTION 2 AREA 3

ZONED: R-ED
 TAX MAP No. 17 PARCEL Nos. 41 and 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SHEET 24 OF 25
 DATE: AUG. 27, 1996

WATER QUALITY CONSTRUCTION SPECIFICATIONS

SPECIFICATIONS

I. SITE PREPARATION: AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STEEPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1.

AREAS TO BE COVERED BY THE POND OR RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCE, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREE, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH GROUND SURFACE FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

II. EARTH FILL:

MATERIAL: THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHALL CONFORM TO UNITED SOIL CLASSIFICATION GC, SC, CH OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

COMPACTION: THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER Tired OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS THAN 95% MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN ±2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99.

STRUCTURE BACKFILL: BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

PIPE CONDUITS: ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

POLYVINYL CHLORIDE (PVC) PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE (PVC) PIPE:

- MATERIALS - PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.
- JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATER-TIGHT.
- BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
- BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".
- OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

CONCRETE: CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 608, MIX NO. 3.

ROCK RIPRAP: ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN THE OPERATION. THE RIPRAP SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER. THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919.12.

CARE OF WATER DURING CONSTRUCTION

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER. ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTION OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO PUMPS FROM WHICH THE WATER SHALL BE PUMPED.

STABILIZATION: ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION & SEDIMENT CONTROL: CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED & WATER & AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.

KEY	WATER QUALITY FACILITY NUMBER					PLANT SPECIES	SIZE	REMARKS
	1	2	3	4	5			
SL	40	30	20	18	35	PRIMARY WETLAND VEGETATION		
						SAGITTARIA LATIFOLIA DUCK POTATO	ROOTS	36" OC
SA	20	15	8	9	17	PRIMARY WETLAND VEGETATION		
						SCIRPUS AMERICANUS COMMON THREE SQUARE	ROOTS	36" OC
						SECONDARY WETLAND VEGETATION		
CO	20	15	10	9	20	CEPHALATHUS OCCIDENTALIS BUTTON BUSH	ROOTS	
PV	40	30	15	18	35	PELTANDRA VIRGINICA ARROW-ARUM	ROOTS	36" OC
PC	20	15	8	9	17	PONTEFERIA CORDATA PICKEREL WEED	ROOTS	36" OC

NOTES:

- ALL PLANT MATERIAL TO BE WET GROWN OR ADAPTED TO WETLAND CONDITIONS
- ALTERATIONS TO THE PROPOSED GRADING SHOWN MAY AFFECT THE SUCCESS OF THE PLANT MATERIAL
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.

STORM WATER MANAGEMENT AREA LANDSCAPING (SCHEDULE 'D')

WATER QUALITY FACILITY NUMBER	1	2	3	4	5
LINEAR FEET OF PERIMETER	760'	590'	760'	670'	600'
NUMBER OF TREES REQUIRED	BASED ON 700 L.F.	BASED ON 400 L.F.	BASED ON 510 L.F.	BASED ON 530 L.F.	BASED ON 130 L.F.
SHADE TREES	14 1/50	8 1/50	10 1/50	10 1/50	2 1/50
EVERGREEN TREES	17 1/40	10 1/40	12 1/40	13 1/40	3 1/40
CREDIT FOR EXISTING VEGETATION (NO. YES AND %)	60'	140'	250'	140'	470'
CREDIT FOR OTHER LANDSCAPING (NO. YES AND %)	—	—	—	—	—
NUMBER OF TREES PROVIDED	17	8	12	10	2
SHADE TREES	17	8	12	10	2
EVERGREEN TREES	—	—	—	—	—
OTHER TREES (2:1 SUBSTITUTION)	—	—	—	—	—

PLANT LIST

QTY.	KEY	NAME	SIZE
14	○	ACER RUBRUM (OCTOBER GLORY™ MAPLE)	2" 2 1/2" CALIBER FULL CROWN B&B
55	✱	PINUS STROBUS (EASTERN WHITE PINE)	6'-8' HEIGHT

"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL." FINANCIAL SURETY FOR THE (24) REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$2,400.00.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

James Burcholi 8/28/96
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/WE 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John Dwyer 8-27-96
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Clayton Summers 2/12/97
DISTRICT - NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John P. DeWitt 2/12/97
DISTRICT HOWARD SOIL CONSERVATION DIST. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richard Blood 3/5/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John Dwyer 2/12/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

Andrew M. Gault 2-20-97
CHIEF, BUREAU OF HIGHWAYS DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ PE. NO. _____
DATE _____

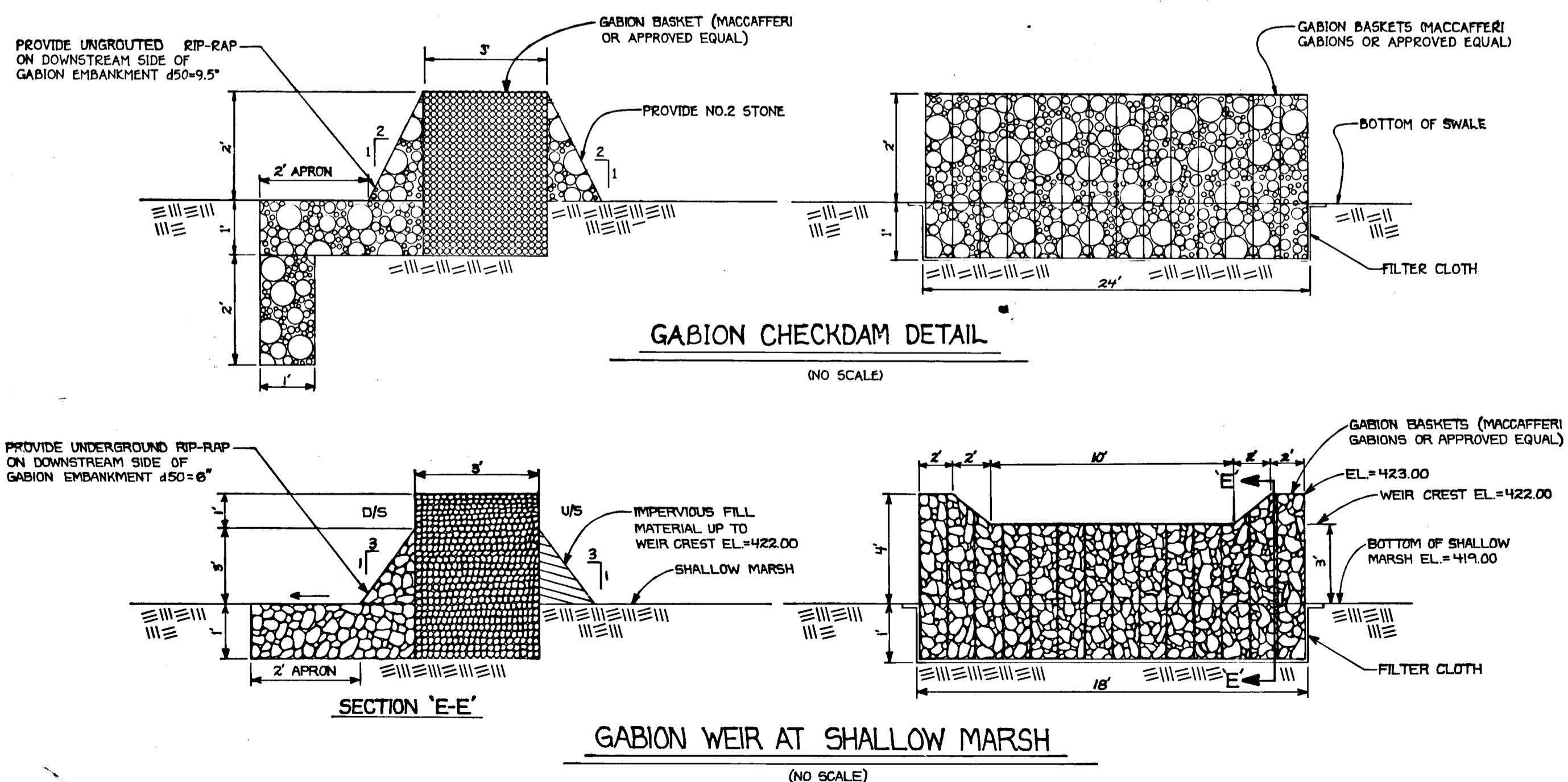
CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND ANTENAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION (OF PONDS) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH

- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
- REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
- ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED, VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANYTIME.
- CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
- NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
125 NATIONAL SQUARE, TITLE "AAS" - 2ND FLOOR, 2ND FLOOR
ELLSWORTH CITY, MARYLAND 21042
410-861-2855

OWNER
DANIELS MILL OVERLOOK, LLC
C/O MR. MICHAEL BIFFENDEN
1909 TECH ROAD
SILVER SPRING, MARYLAND 20904

DEVELOPER
THE RYLAND GROUP
ATTENTION: MR. CHARLES O'DONOVAN
GALLERIA TOWERS
SUITE # 705
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21093



WATER QUALITY DANIELS MILL OVERLOOK

SECTION 2 AREA B
LOTS 131 THRU 176 AND PARCEL 'B'
ZONED: R-ED
TAX MAP No. 17 PARCEL Nos. 41 and 547
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 25 OF 25

DATE: AUG. 27, 1996