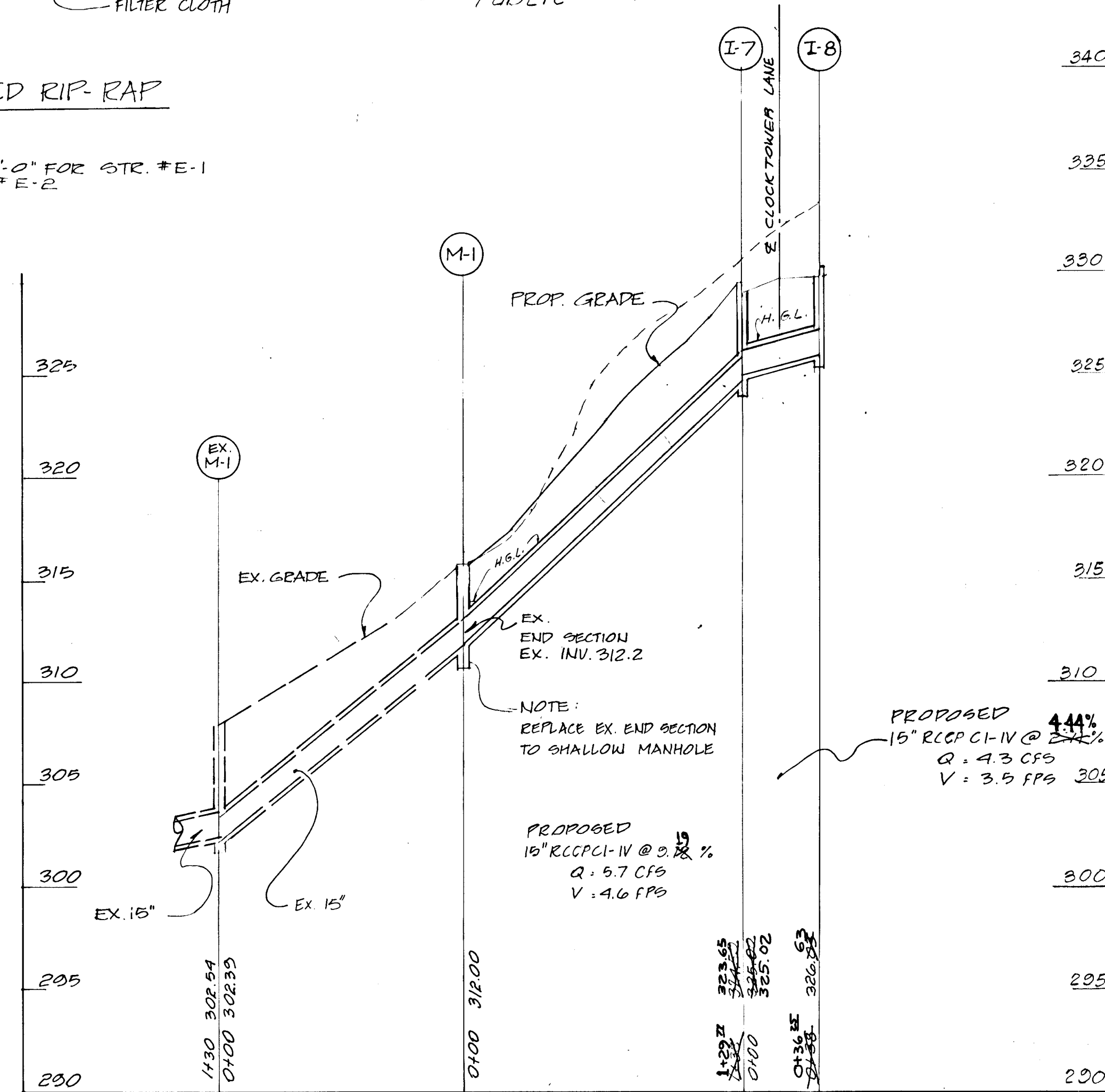
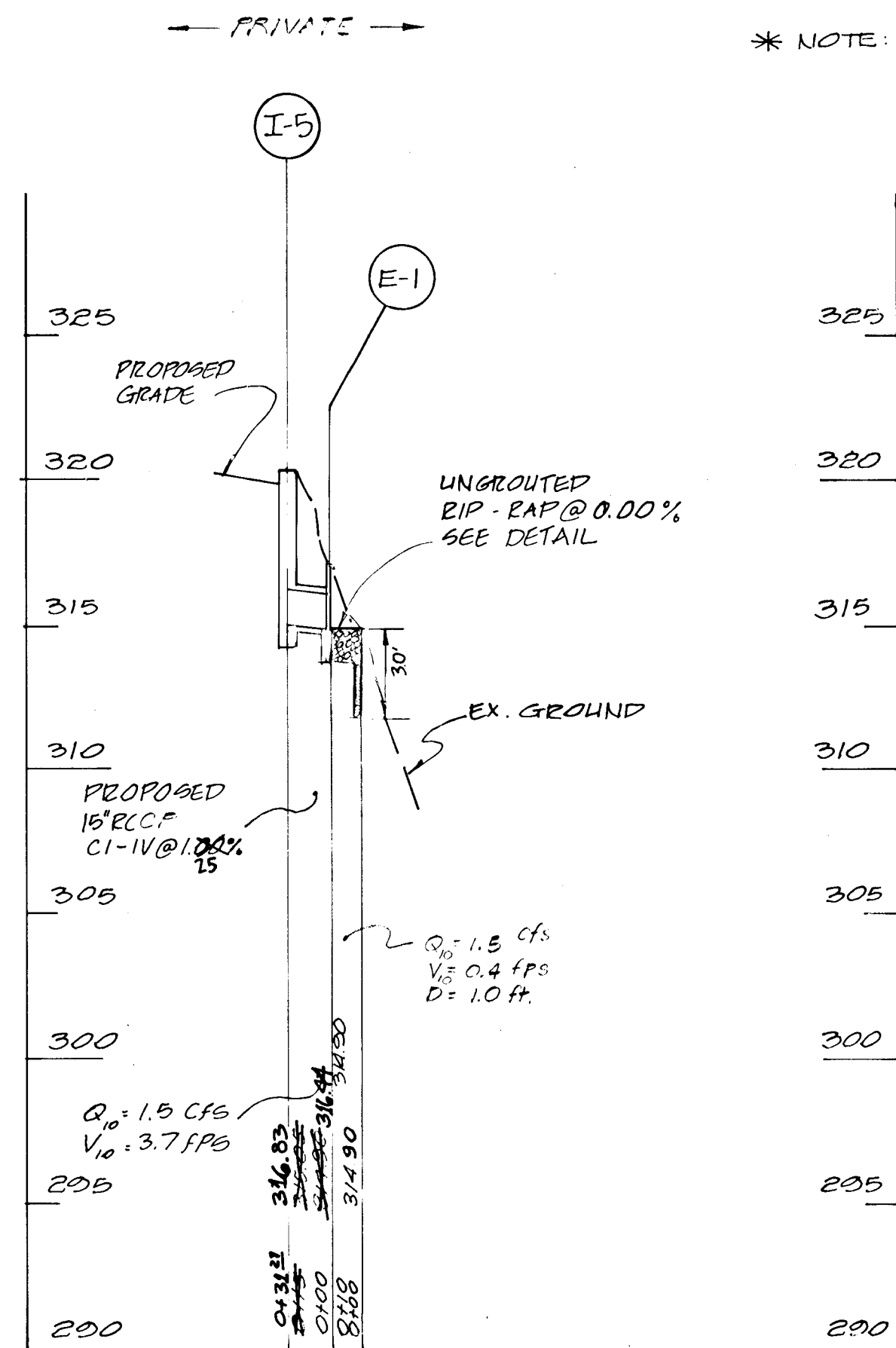
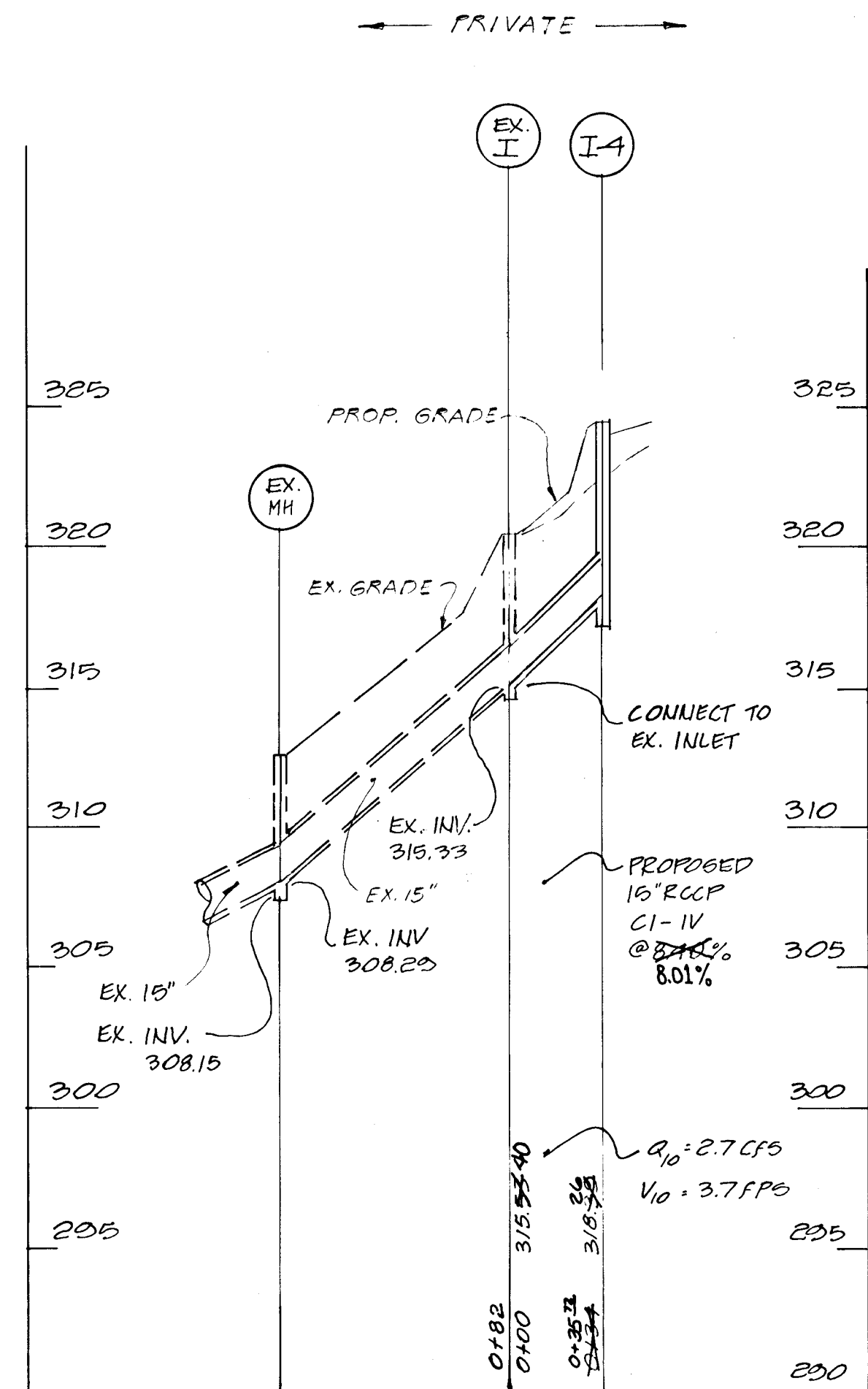


DETAIL FOR UNGROUTED RIP-RAP

NOT TO SCALE

\* NOTE: THIS DIMENSION IS 2'-0" FOR STR. # E-1 AND 4'-0" FOR STR. # E-2



STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INVERT IN.	INVERT OUT	TOP EL.	REMARKS
I-1	A-5	SEE PLAN & PROFILE	317.80	318.20	324.38	HO. CO. STD. SD-4.01
I-5	A-5	SEE PLAN & PROFILE	315.00	316.00	320.50	HO. CO. STD. SD-4.01
I-6	A-5	SEE PLAN & PROFILE	320.34	320.80	336.71	HO. CO. STD. SD-4.02
I-7	A-5	15' LT. STA. 18+45	325.80	323.65	329.71	HO. CO. STD. SD-4.01
I-8	A-10	15' LT. STA. 18+35	326.03	326.80	330.57	HO. CO. STD. SD-4.02
M-1	SHALLOW BRICK MH	15' LT. STA. 18+36	311.73	311.73	316.30	HO. CO. STD. G-5.05
E-1	END WALL	SEE PLAN & PROFILE	314.00	316.44	317.30	HO. CO. STD. SD-5.21
E-2	CONC. END SECTION	SEE PLAN & PROFILE	325.88	325.99	327.30	HO. CO. STD. SD-5.51

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
- ALL INLETS SHALL BE HOWARD COUNTY STANDARD UNLESS OTHERWISE NOTED.
- ALL STREET CURB RETURNS SHALL HAVE A 30.0' RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION.
- TEMPORARY COMPACTED 18" HIGH EARTH FILL DIVERSION DIKES SHALL BE CONSTRUCTED ABOVE THE LIPS OF FILL SLOPES ON THE R.O.W. CONCURRENTLY WITH THE INITIAL GRADING AND DIRECTED TO UNDISTURBED SOIL AREAS AT THE END OF EACH DAY.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE NO. 992-2436.
- ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3500 P.S.I.
- ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDED. SEE THE SEED SPECIFICATIONS ON SHEET 7 OF 9.
- TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1978, REVISED EDITION.
- STABLENKA (FILTER CLOTH T-100) OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP-RAP (FULL WIDTH AND LENGTH OF STONE).
- STONE FOR RIP-RAP SHALL BE AS SPECIFIED ON THE DRAWINGS. ALL RIP-RAP SHALL BE UNPAVED.
- STUBS FOR 6" P.V.C. UNDERDRAIN PIPE TO BE INSTALLED AT CENTER OF EACH WALL OF EVERY INLET.

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

AS-BUILT SURVEY CERTIFIED BY  
THOMAS L. WILEY Md. PE. NO. 9273  
ON 11-2-88.

**Dewberry & Davis**  
Engineers Architects Planners Surveyors  
804 WEST DIAMOND AVENUE  
DAILYS BRING - BARTLAND 20877  
(301) 848-8900

*William T. Butler*  
CONSULTING ENGINEER  
4709 C.E. REG. NO. MARYLAND STATE

**CHESAPEAKE HOMES INC.**  
1531 EDGEWOOD ST. STE. M  
BALTIMORE, MD 21227

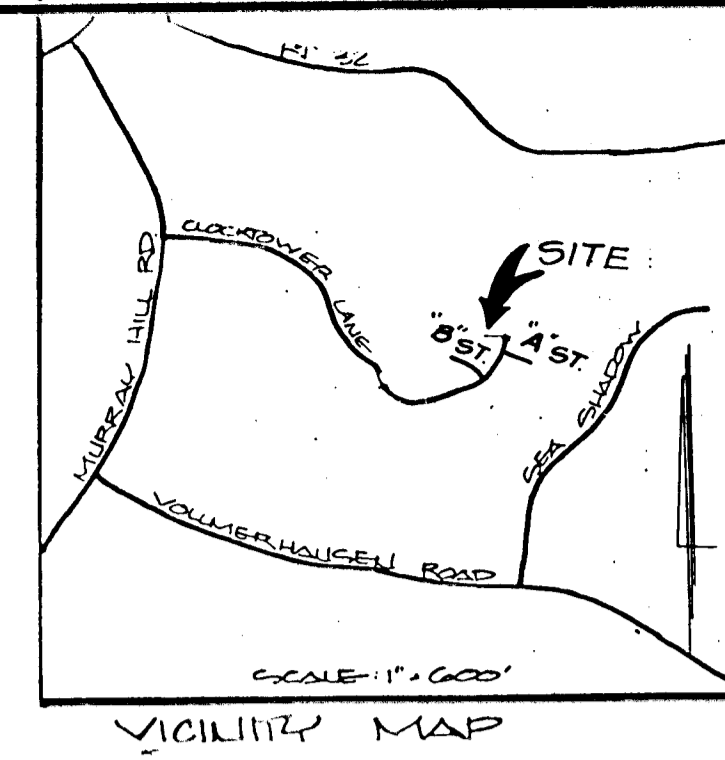
APPROVED: *Thomas L. Wiley* 3/11/87  
CHIEF, BUREAU OF ENGINEERING DATE  
APPROVED: *John M. Murrman* 3-19-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMIN. DATE

DESIGN: G.F.  
DRAWN: L.W.  
CHECK: G.F.  
REVISIONS

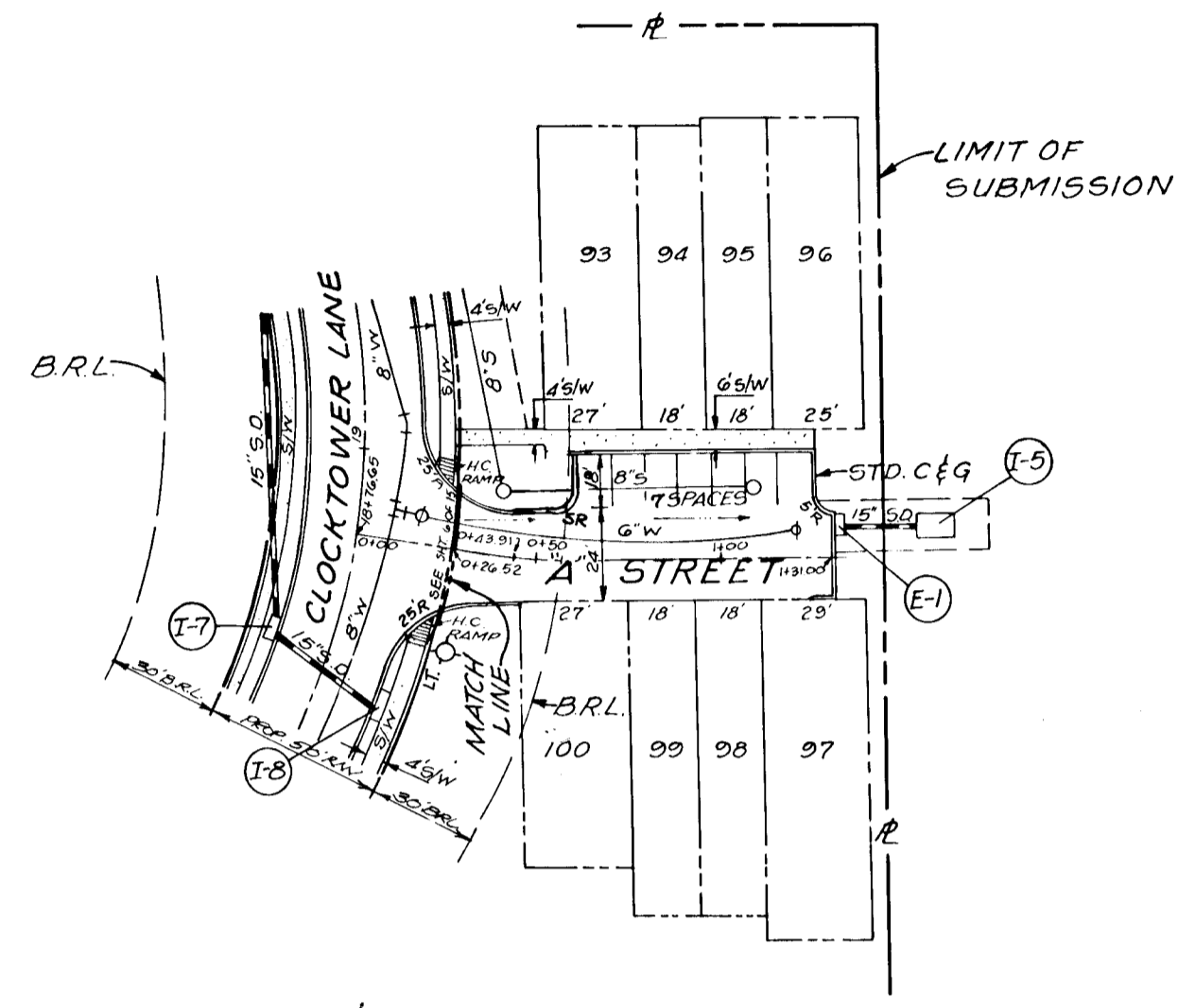
**& STORM DRAIN PROFILES**  
VILLAGE OF KINGS  
CONTRIVANCE  
LOTS 73 THRU 117 SECTION 3 AREA 1  
TAX MAP NO. 42 6TH. ELECTION DISTRICT HOWARD COUNTY, MD.  
SCALE: AS SHOWN DATE: FEB. 1986 SHEET 2 OF 2 FILE: CD-235

445

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:  
*John W. Macdonald* DATE: 3-19-87  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE  
 SYSTEMS, AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU  
 OF ENGINEERS: *William R. Rhyne* DATE: 3-19-87



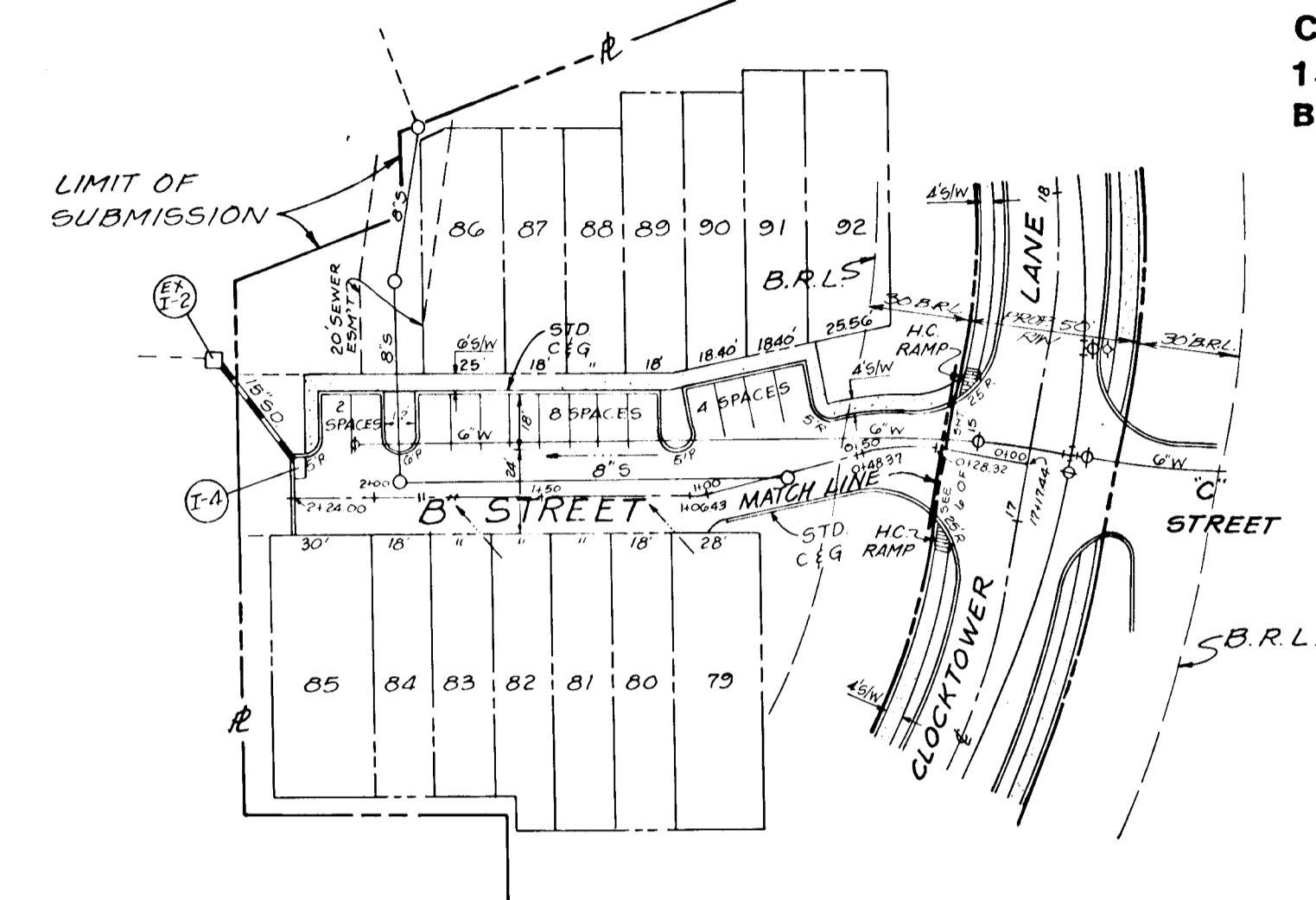
OWNER / DEVELOPER  
 CHESAPEAKE HOME INC.  
 1531 EDGEWOOD ST.  
 BALTIMORE, MD. 21227



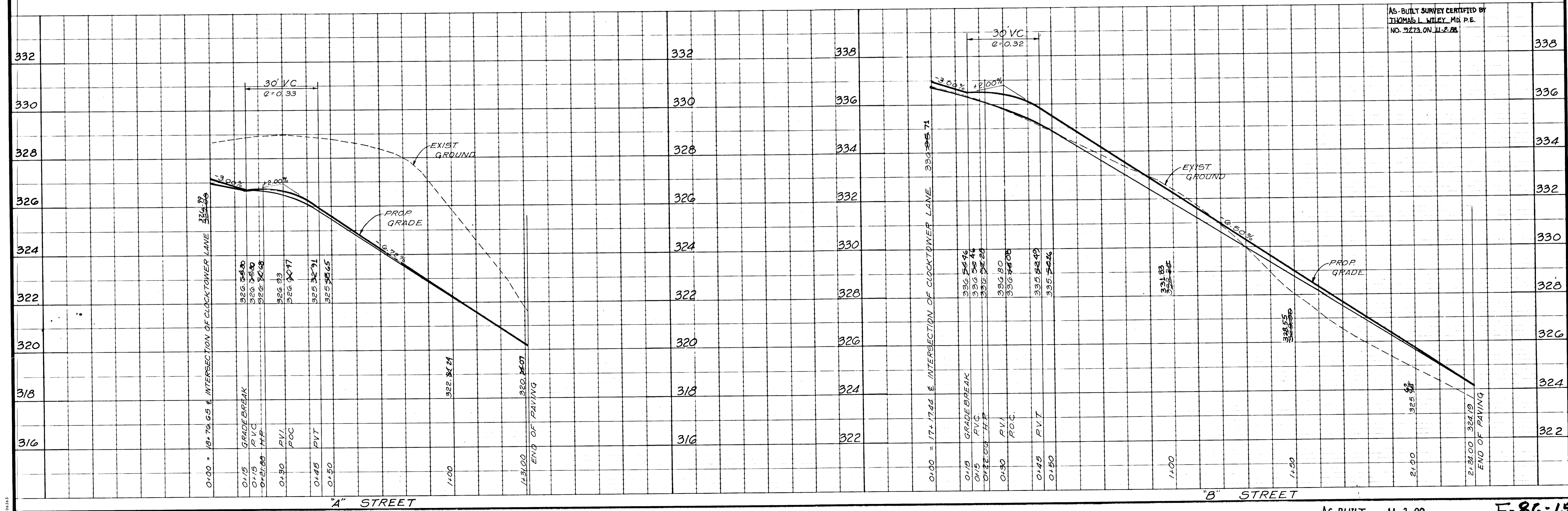
'A' STREET

- GENERAL NOTES:
- 1) LIMIT OF SUBMISSION FOR ALL PRIVATE SERVICES FROM STA 12+81.02 (SEE APPROVED PLAN FAL-13) TO STA 13+32.14 (SEE APPROVED PLAN F-91-13) OF CLOCKTOWER LANE. CLOCKTOWER LANE IS A PUBLIC LOCAL STREET - DESIGN IS ON SHEET 6 OF 7 OF SDP-86-212C.
  - 2) REFER TO SHEET 4 OF 4 FOR STANDARD DETAILS WHICH ARE TYPICAL FOR STREETS "A" THRU "G".
  - 3) ROADS "A" THRU "G" ARE ALL PRIVATE ROADWAYS WITHIN THE NEWTOWN ZONE (ATTACHED LAND USE AREA).
  - 4) ROADS "A" THRU "G" HAVE A 5% MAX CROWN SLOPE WITH REVERSE PITCH STANDARD C&G (SEE DETAIL ON SHEET 4 OF 4) ON SITE WHERE DRAINAGE SLOPES AWAY. C&G ALONG PARKING ROWS IS ALSO REVERSE PITCH. NO CROWN PAVEMENT ON ANY STREET.

PLAN - 1" = 50'  
 PROFILE -  
 HORIZ: 1" = 20'  
 VERT: 1" = 2'

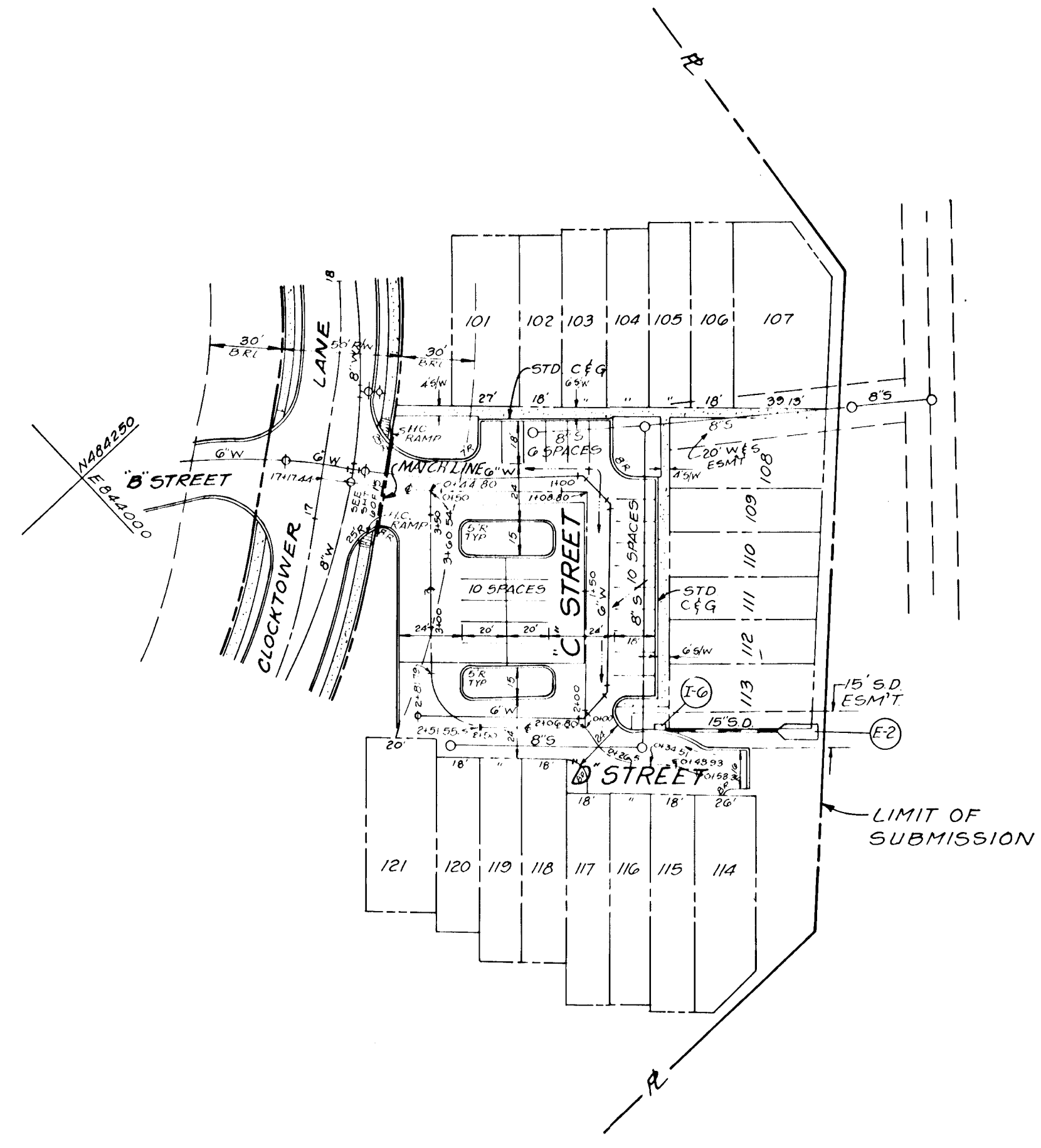
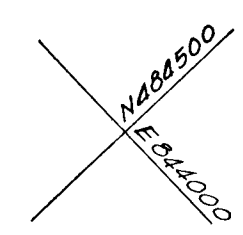
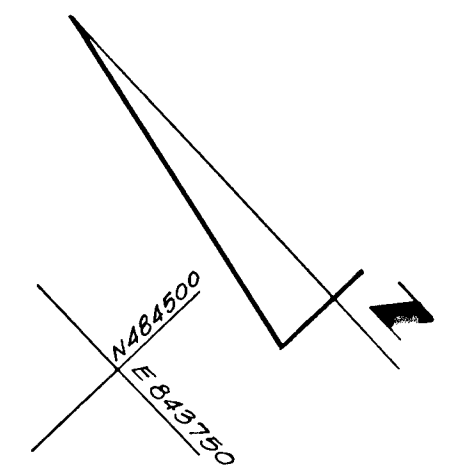


'B' STREET



AS-BUILT SURVEY CERTIFIED BY  
 THOMAS L. WILEY, M.D. P.E.  
 NO. 2273, ON 11-2-88

**Dewberry & Davis**  
 Engineers Architects Planners Surveyors  
 VILLAGE OF KINGS CONTRIVANCE  
 SECTION 3, AREA 1  
 PRIVATE ROADS — PLAN & PROFILE  
 LOTS 79 THRU 157  
 HOWARD COUNTY, MARYLAND  
 6th ELECTION DISTRICT  
 TAX MAP NO. 142  
 Date: *Aug. '86*  
 File Number: *3 of 3*  
 Vertical Scale: 1" = 2'  
 Horizontal Scale: 1" = 50' PLAN / 1" = 20' PROFILE  
 Sheet: *3 of 3*

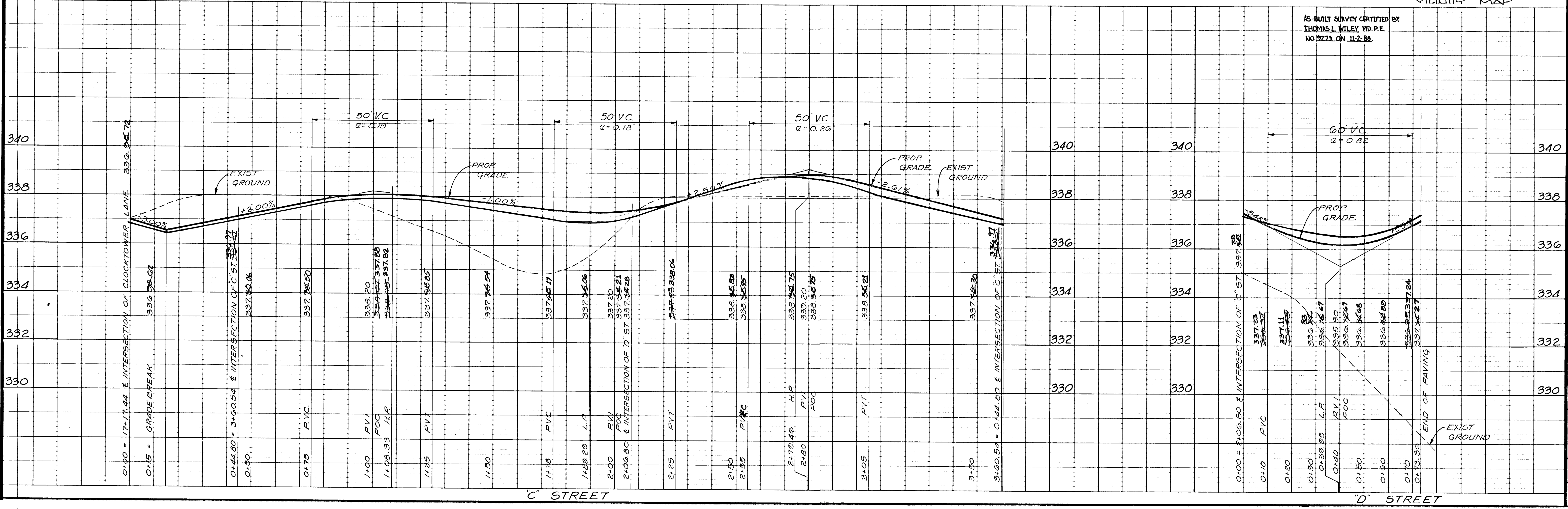
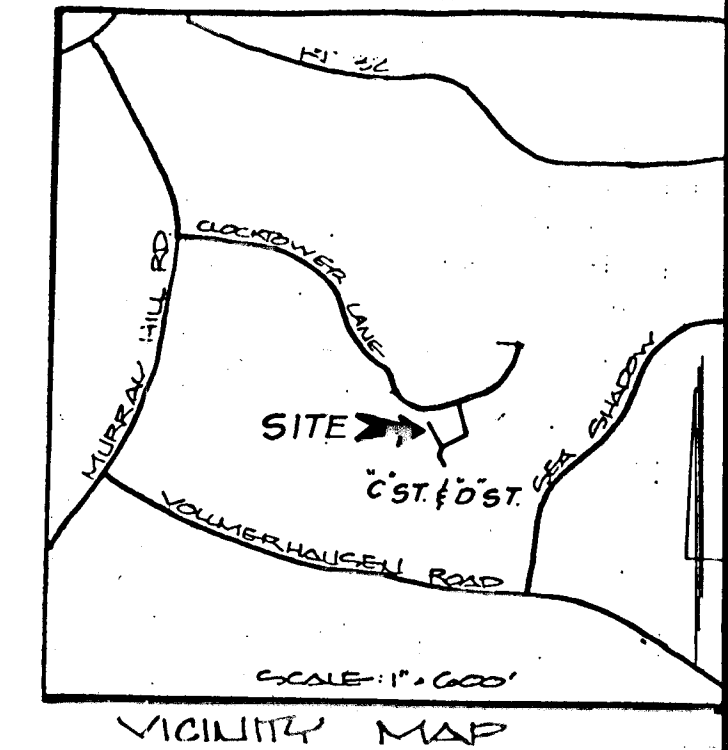


APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:  
*John W. Muschman* DATE: 3-19-97  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF ENGINEERING: *David J. Ray* DATE: 3-11-87

**C STREET & D STREET**  
 PLAN - 1" = 50'  
 PROFILE -  
 HORIZ: 1" = 20'  
 VERT: 1" = 2'

**OWNER / DEVELOPER**  
 CHESAPEAKE HOME INC.  
 1531 EDGEWOOD ST.  
 BALTIMORE, MD. 21227

*William T. Butler*

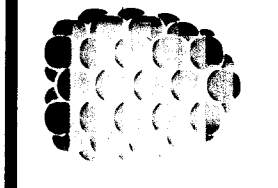


AS-BUILT SURVEY CERTIFIED BY  
 THOMAS L. WILEY MD.P.E.  
 NO. 2773 ON 11-2-88.

**VILLAGE OF KINGS CONTRIVANCE**  
 SECTION 3, AREA 1  
 PRIVATE ROADS — PLAN & PROFILE  
 LOTS 79 THRU 157  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 TAX MAP NO. 142

Vertical Scale  
 1" = 2'  
 Horizontal Scale  
 1" = 50' PLAN  
 1" = 20' PROFILE  
 Sheet  
 4 of 5  
 Date  
 Aug. '86  
 File Number

445

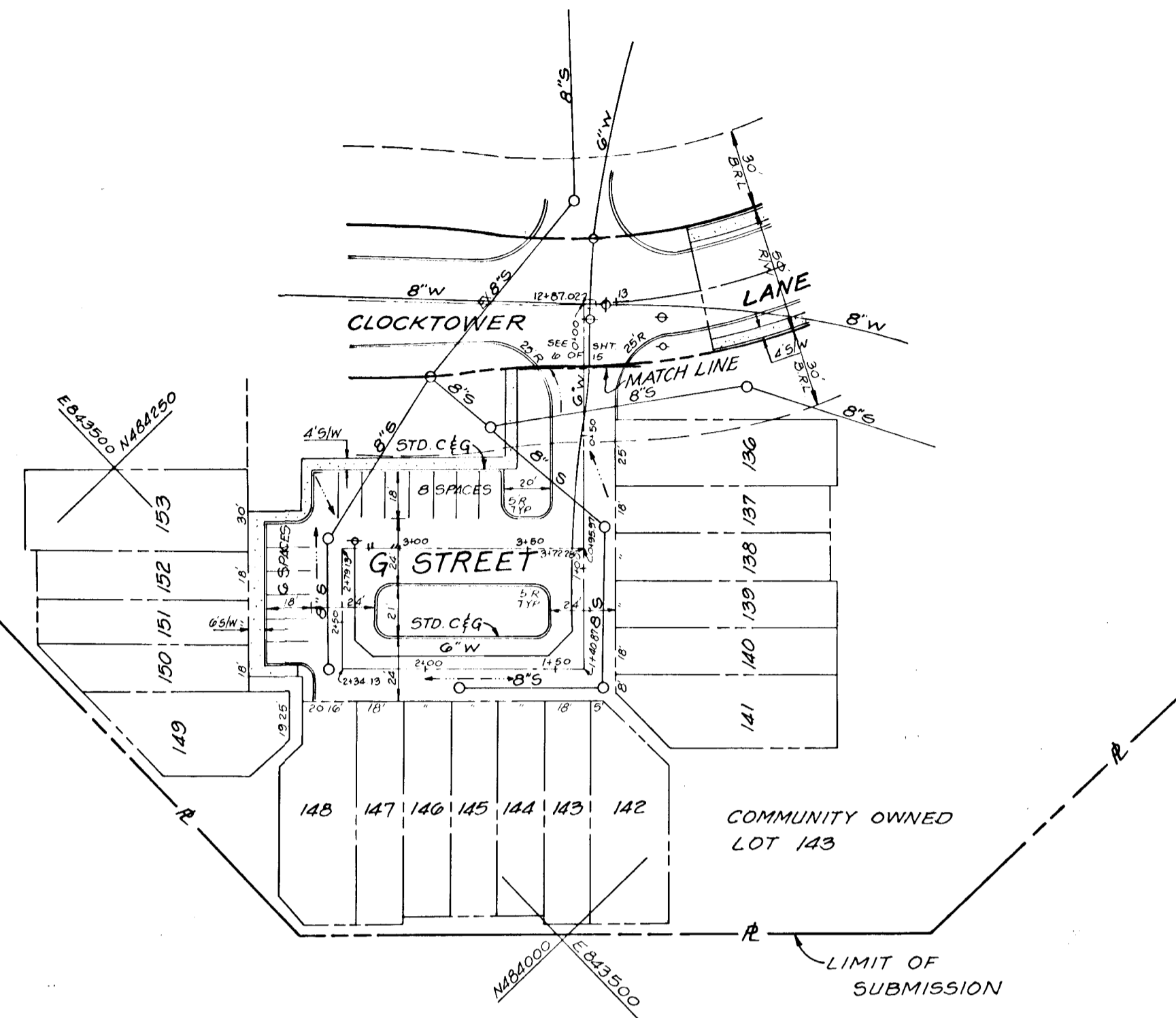
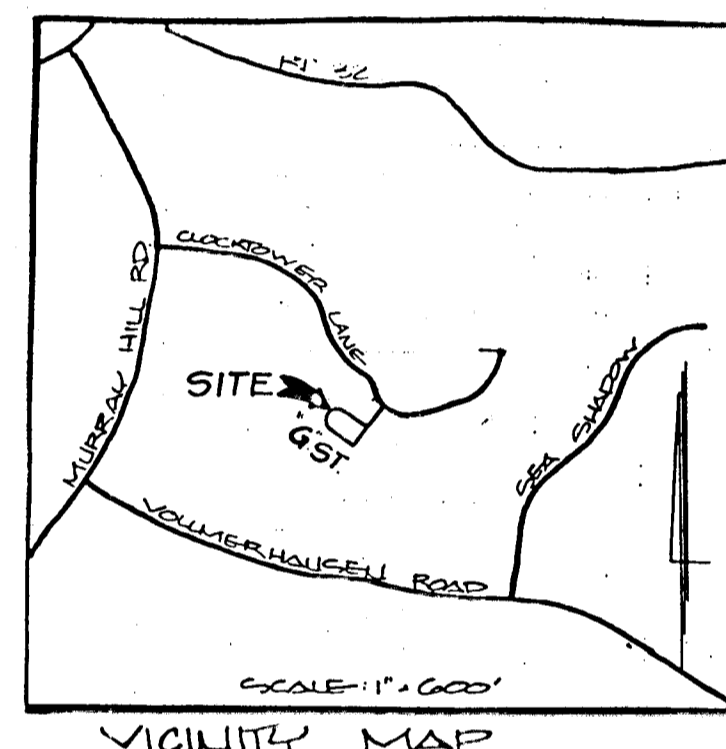
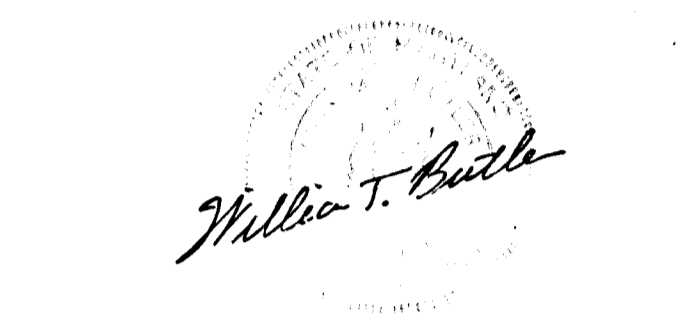


**Dewberry & Davis**  
 Engineers Architects Planners Surveyors

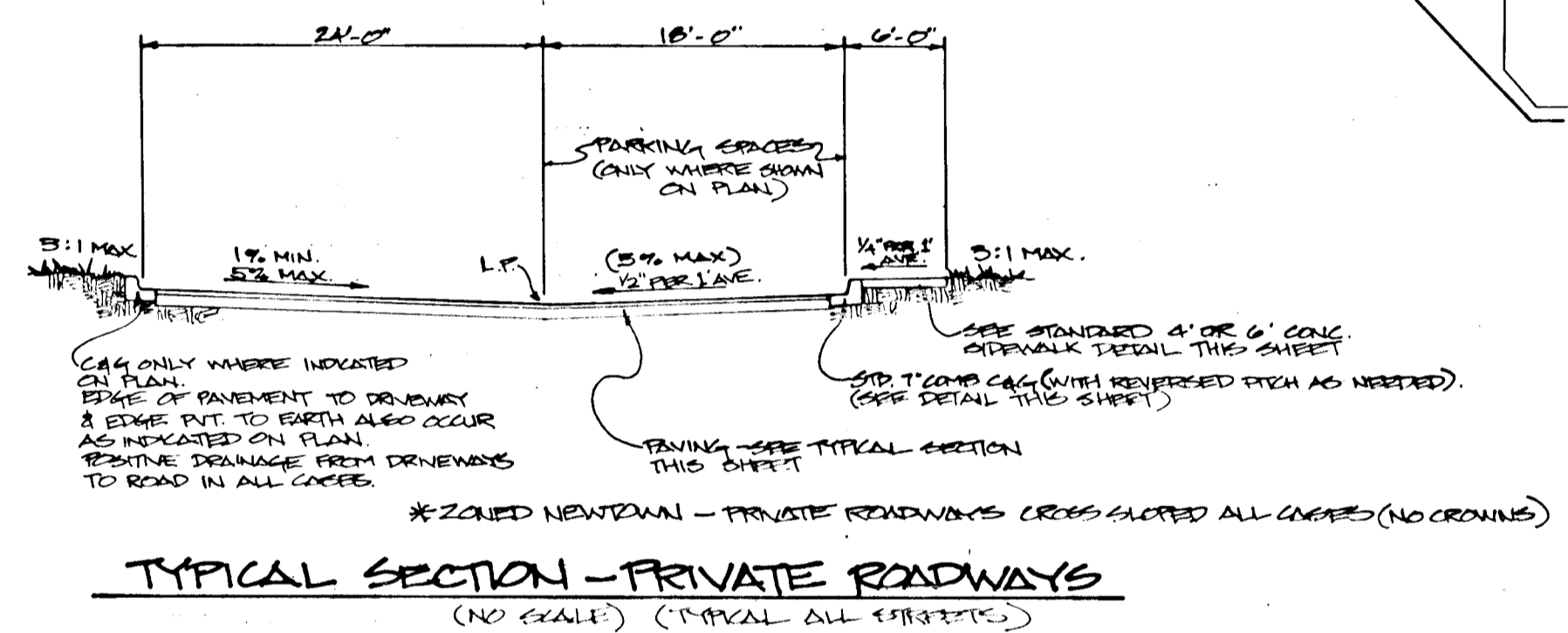


APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:  
*John M. Macchran* DATE: 3-19-87  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE  
 SYSTEMS, AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CITY, BUREAU OF ENGINEERING: *William T. Butler* DATE: 3-11-87

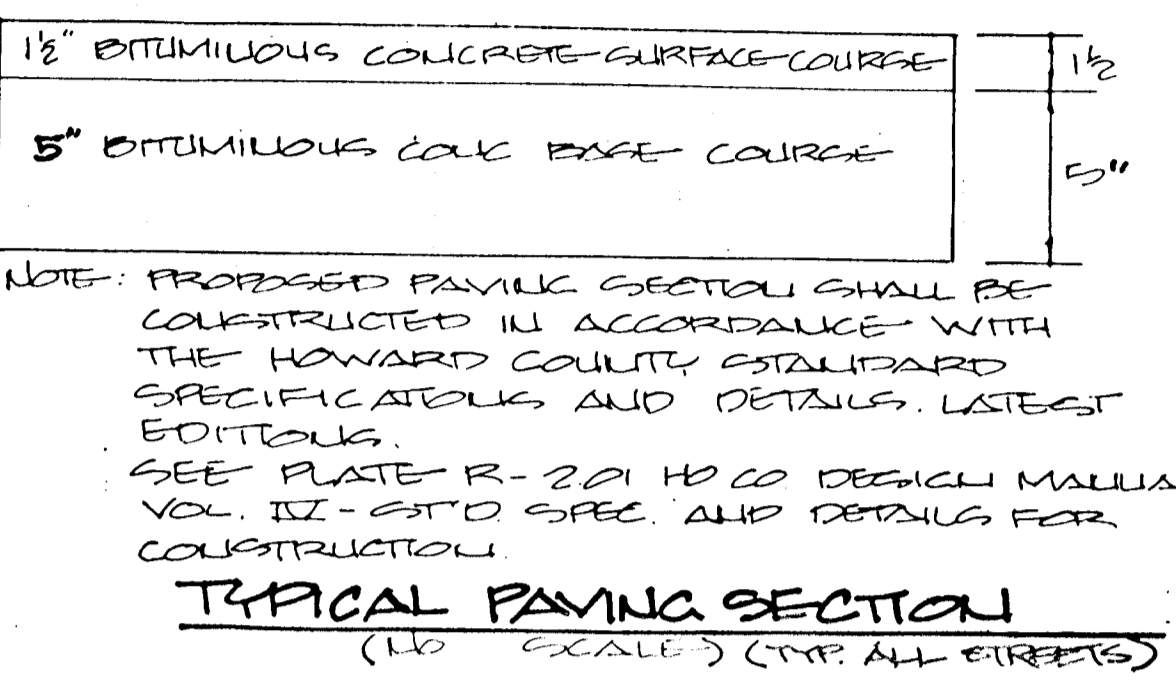
OWNER / DEVELOPER  
 CHESAPEAKE HOME INC.  
 1531 EDGEWOOD ST.  
 BALTIMORE, MD. 21227



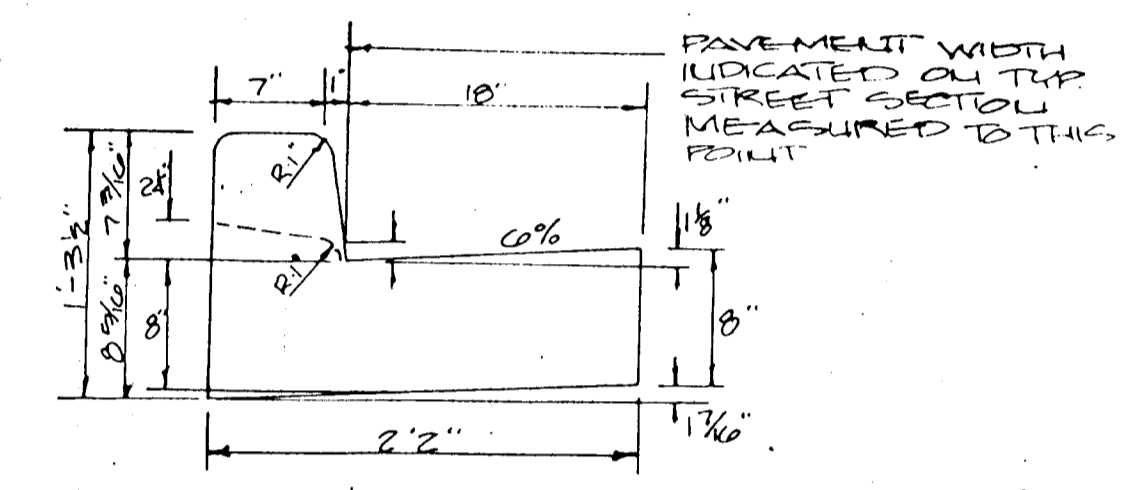
**"G" STREET**  
 PLAN - 1" = 50'  
 PROFILE:  
 HORIZ: 1" = 20'  
 VERT: 1" = 2'



**TYPICAL SECTION - PRIVATE ROADWAYS**  
 (NO SCALE) (TYPICAL ALL STREETS)

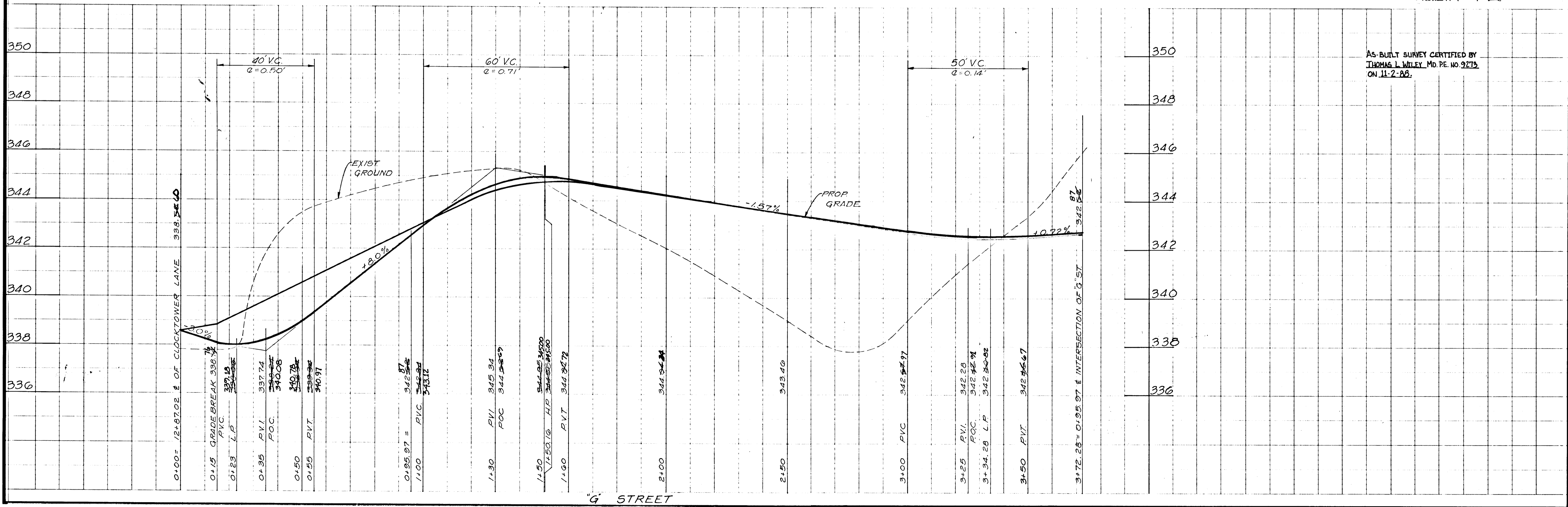


**TYPICAL PAVING SECTION**  
 (NO SCALE) (TYPICAL ALL STREETS)



**DETAIL STD CONC. CURB & GUTTER**  
 (NO SCALE) (TYPICAL ALL STREETS)

NOTE: SEE PLATE R-301 HO CO. DESIGN MANUAL VOL. II STD SPEC. AND DETAILS FOR CONSTRUCTION.



AS-BUILT SURVEY CERTIFIED BY  
 THOMAS L. WITLEY, MD. P.E. NO. 9273  
 ON 11-2-88.

445



**STANDARD AND SPECIFICATIONS FOR STORM DRAIN INLET PROTECTION**

**Definition**

Filter cloth installed around inlets in the form of a fence or across an opening, thereby reducing sediment content of sediment laden water.

**Purpose**

To prevent sediment laden water from entering a storm drain system through inlets.

**Conditions Where Practice Applies**

This practice shall be used where the drainage area to an inlet is disturbed, it is not possible to temporarily divert the storm drain outfall into a sediment trapping device and water right blocking of inlets is not advisable. It is not to be used in place of sediment trapping devices. This practice may be used in conjunction with storm drain diversion to help prevent siltation of pipes installed with a low slope angle.

**Construction Specifications**

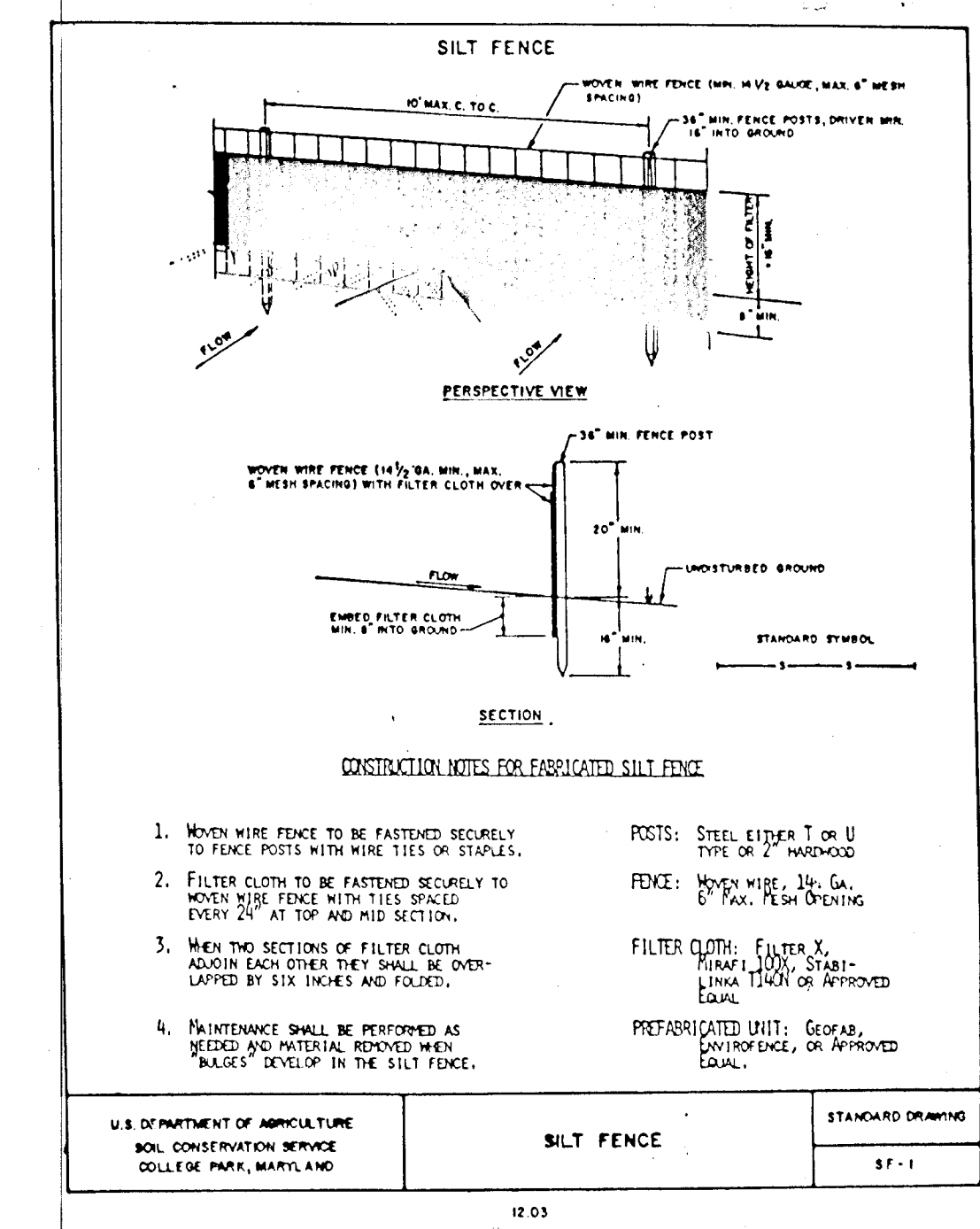
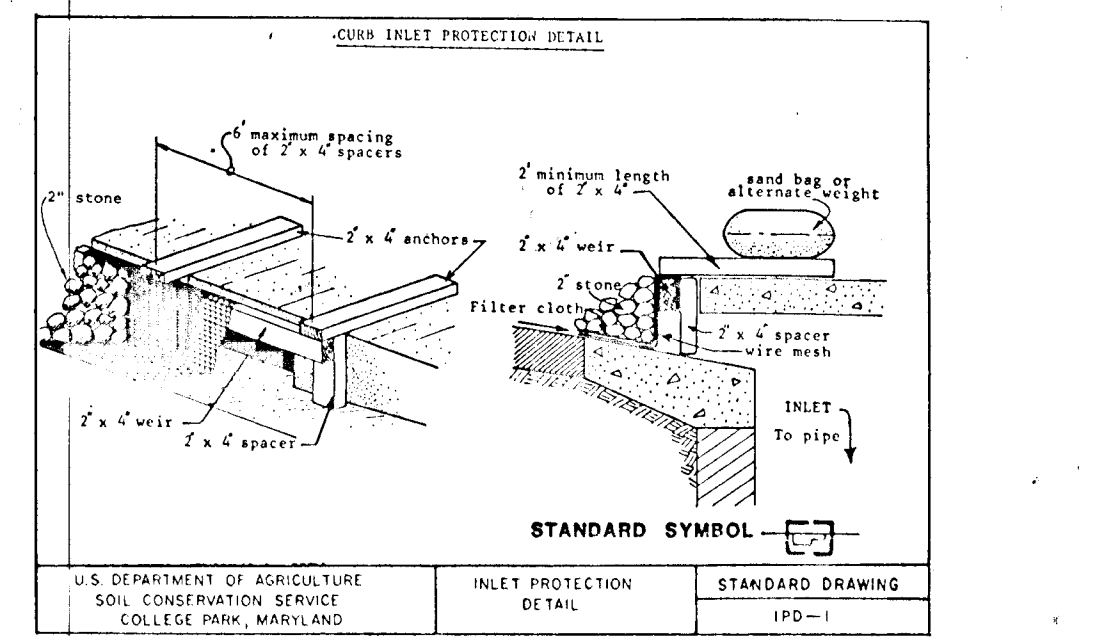
**I. Materials**

- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
- Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
- Filter cloth must be of a type approved for this purpose resistant to sunlight with sieve size, 80S, 40-85, to allow sufficient passage of water and removal of sediment.
- Stone is to be 2" in size and clean, since fines would clog the cloth.

**II. Procedure**

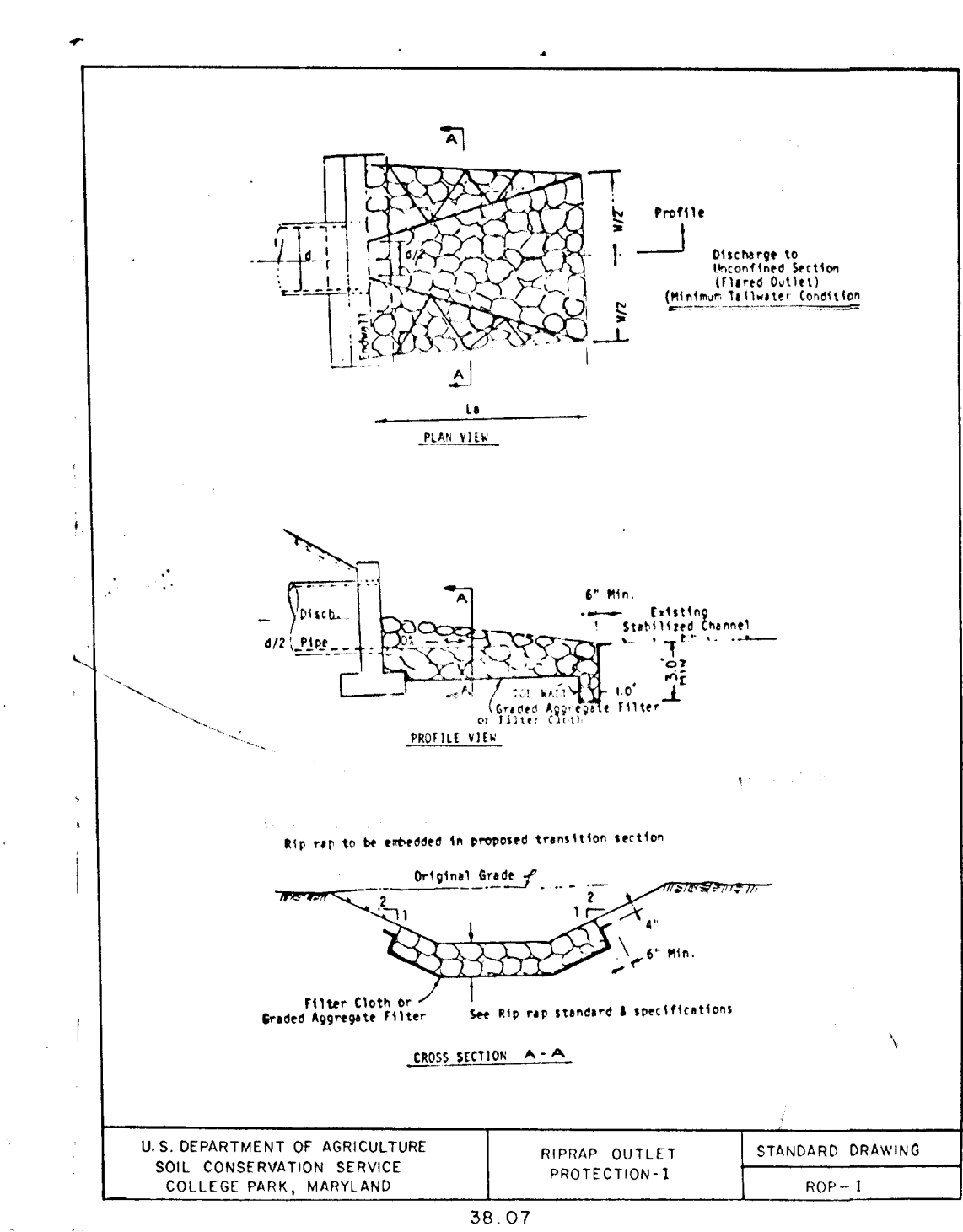
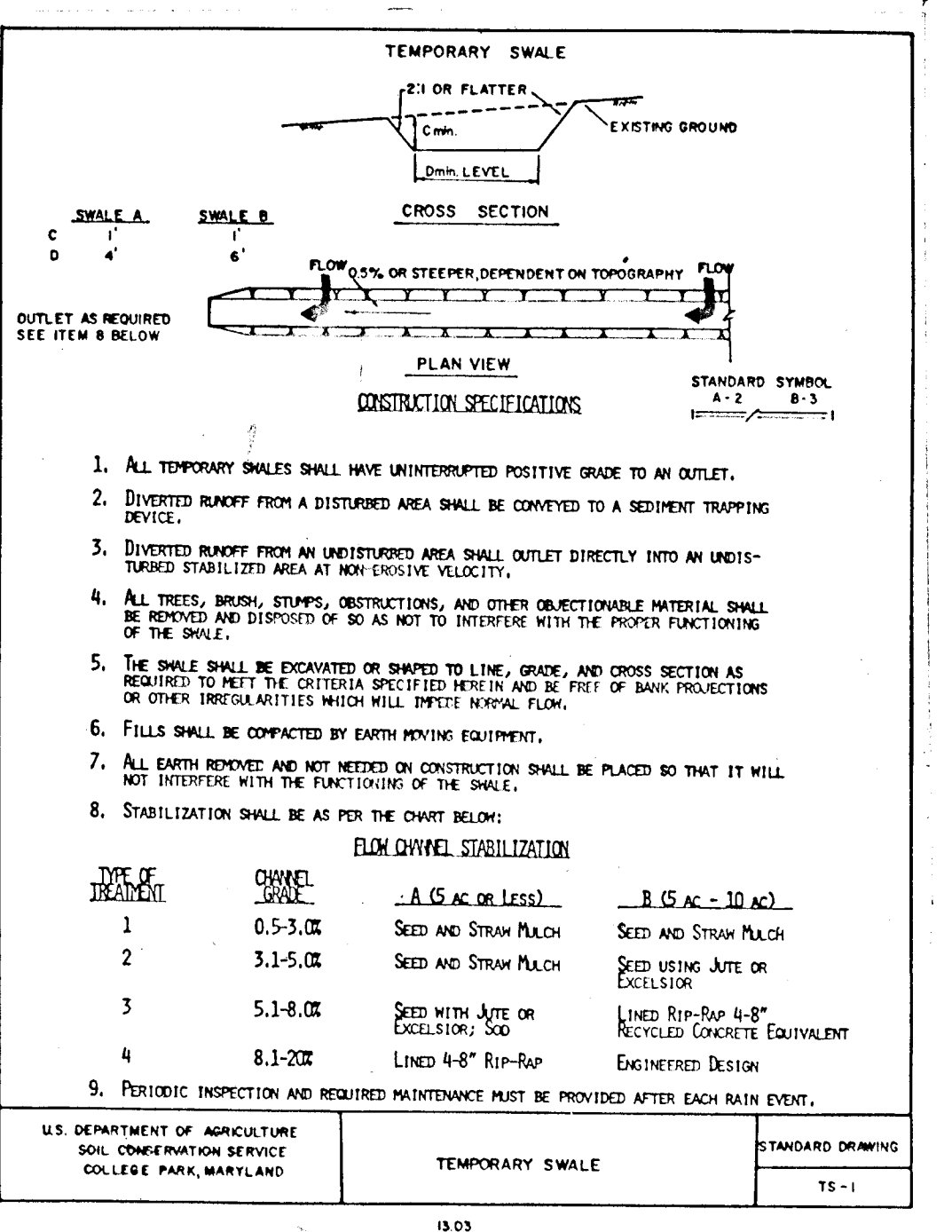
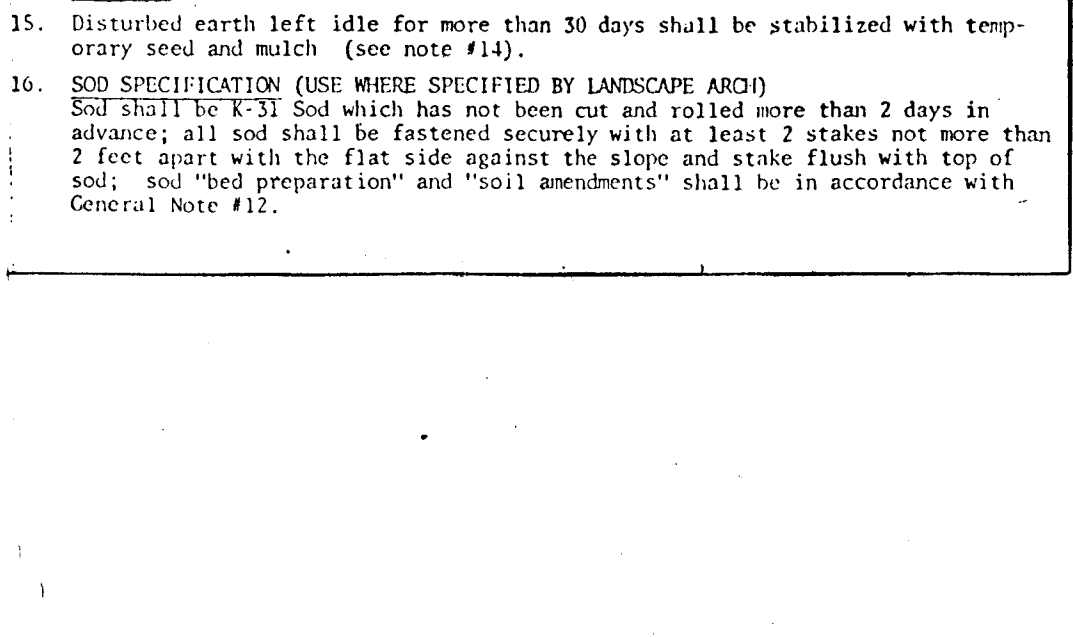
**Curb Inlet Protection.**

- Attach a continuous piece of wire mesh (30" min. 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 piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at space 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 wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- 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 inlet by installing temporary earth or asphalt dikes directing flow into inlet.



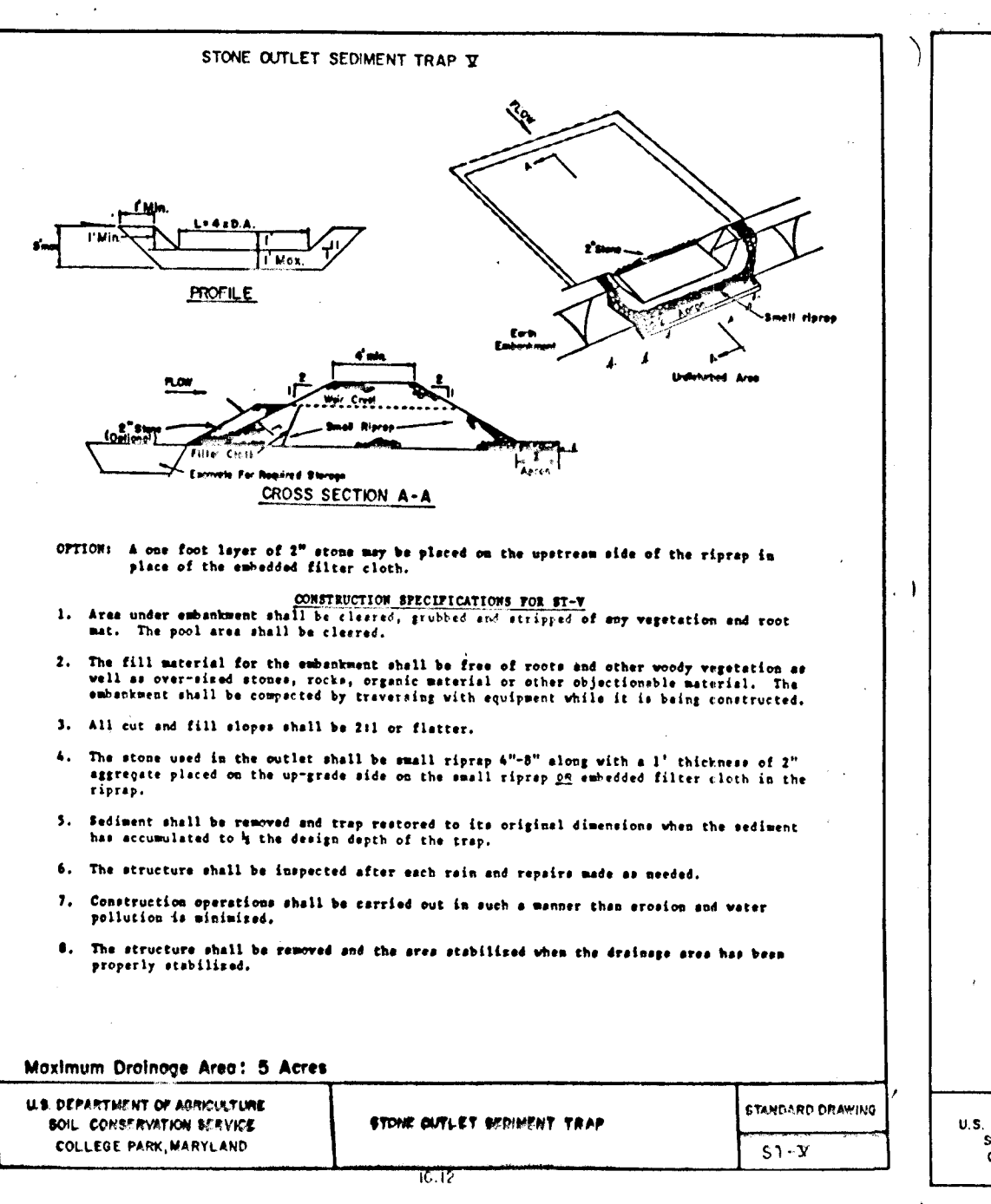
**EROSION & SEDIMENT CONTROL GENERAL NOTES**

- Any change to the grading proposed on this plan requires it to be re-submitted to the Soil Conservation District.
- All slopes 2:1 are to be stabilized with "Permanent Slope Seeding" immediately after grading operation (see note #13).
- All other disturbed areas not intended to be paved or receive building coverage shall be stabilized with "Permanent Seeding" (see note #13).
- Any damage to silt fences, sediment trap, Temp Swales, etc. during grading operation or utility installation shall be repaired immediately.
- The sediment trap shall be cleaned out when silt deposits reach elevation shown on the plan.
- The sediment basin shall be cleaned out when silt deposits reach elevations shown on the plan.
- No sediment control measure shall be removed without permission from the Sediment Control Inspector.
- Upon installation of storm drains, inlets shall be kept plugged until site is stabilized. Positive drainage must be maintained at all times.
- During the layout of sediment control practices shown herein, minor adjustments can and will be made to assure the arrest and control of any sediment before it leaves the construction site. These said changes require approval from the Sediment Control Inspector and the Soil Conservation District.
- All site work is to be done in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas", July 1975, and this plan of sediment control approved by the Howard Soil Conservation District and the Department of Public Works.
- At the end of each working day, all sediment control measures will be inspected and left in operational condition.
- PERMANENT SEEDING:**  
Soil Preparation: Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.  
Soil Amendments: Apply 2 T./Ac. (92 lbs./1,000 S.F.) Dolomitic Limestone and 600 lbs./Ac. (14 lbs./1,000 S.F.) 0-20-20 fertilizer. Harrow or disc line and fertilizer into upper 3 inches of soil. At time of seeding, apply 400 lbs./Ac. (9.2 lbs./1,000 S.F.) of 38-0-0 Ureaform fertilizer and 500 lbs./Ac. (11.5 lbs./1,000 S.F.) of 10-20-20 fertilizer.  
Seeding: For periods March 1-April 30 and August 1-October 15, seed with 60 lbs./Ac. (1.4 lbs./1,000 S.F.) of Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs./Ac. of Kentucky 31 Tall Fescue and 2 lbs./Ac. (0.5 lbs./1,000 S.F.) of Weeping Lovegrass. During the period of October 16 - February 28, protect site by Option (1) 2 T./Ac. of well anchored straw mulch and seed as soon as possible in the Spring. Option (2) Use sod. Option (3) Seed with 60 lbs./Ac. of Kentucky 31 Tall Fescue and mulch with 2 T./Ac. well anchored straw.  
Mulching: Apply 1.5-2 T./Ac. (70-90 lbs./1,000 S.F.) of unrotted, small grain straw immediately after seeding. Anchor mulch immediately after application using 200 Ga./Ac. (5 Ga./1,000 S.F.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 Ga./Ac. (8 Ga./1,000 S.F.) for anchoring.  
Maintenance: Inspect all seeded areas and make needed repairs, replacements and touchings.
- PERMANENT SLOPE SEEDING:** Spread 4 inches of topsoil, seed shall be a mixture of 30% timothy, 30% orchardgrass and 70% Kentucky 31 Tall Fescue applied at a rate of 60 lbs./Ac. fertilizer and mulching shall be the same as Note #12 above.
- TEMPORARY SEEDING:**  
Soil Preparation: See Note #12.  
Soil Amendments: Apply 600 lbs./Ac. (15 lbs./1,000 S.F.) of 10-20-20 fertilizer.  
Seeding: For periods March 1 - April 30 and from August 15 - November 15, seed with 7.5 lbs./Ac. (3.2 lbs./1,000 S.F.) of Annual Ryegrass. For the period May 1 - August 14, seed with 3 lbs./Ac. (0.07 lbs./1,000 S.F.) of Weeping Lovegrass.  
Mulching: See Note #12.
- Disturbed earth left idle for more than 30 days shall be stabilized with temporary seed and mulch (see note #14).
- SOD SPECIFICATION (USE WHERE SPECIFIED BY LANDSCAPE ARCHT)**  
Sod shall be 12" x 12" Sod which has not been cut and rolled more than 2 days in advance; all sod shall be fastened securely with at least 2 stakes not more than 2 feet apart with the flat side against the slope and stake flush with top of sod; soil "bed preparation" and "soil amendments" shall be in accordance with General Note #12.



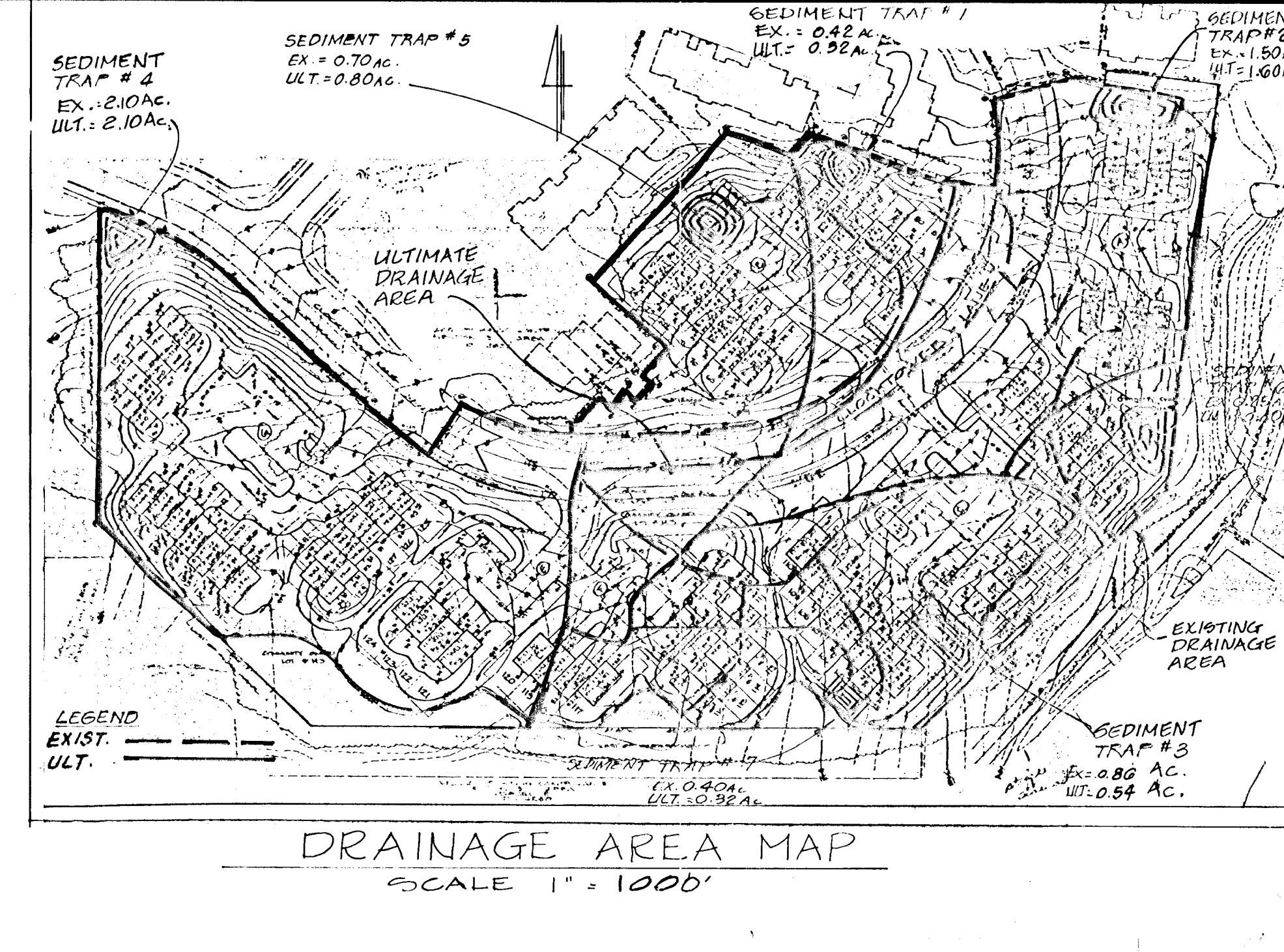
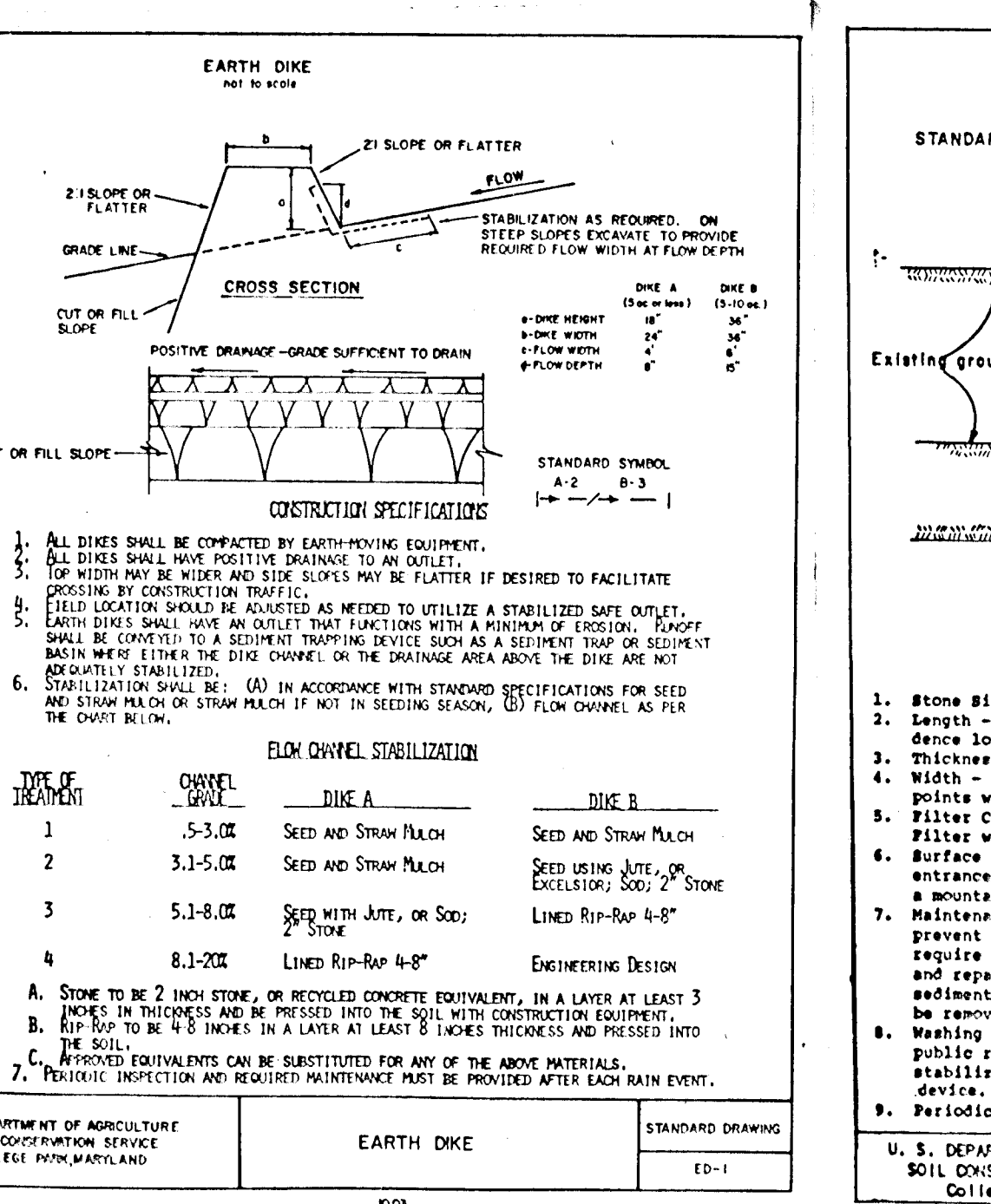
**CONSTRUCTION SPECIFICATIONS**

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.



**SEQUENCE OF OPERATIONS**

- NOTIFY THE HOWARD COUNTY DEPARTMENT OF LICENSES & PERMITS INSPECTOR 48 HOURS BEFORE BEGINNING WORK.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE.
- INSTALL STONE OUTLET SEDIMENT TRAPS.
- INSTALL EARTH DIKE AND TEMPORARY SWALE.
- CLEAR AND GRUB SITE.
- BEGIN MAJOR GRADING.
- INSTALL ALL UTILITIES; KEEP INLETS PLUGGED AND TEMPORARY CURB OPENINGS FOR MAINTAINING POSITIVE DRAINAGE TO TRAPS AT ALL TIMES.
- INSTALL FOUNDATIONS AND BEGIN BUILDING CONSTRUCTION.
- COMPLETE MAJOR GRADING; PAVING AREAS AND VEGETATIVELY STABILIZE ALL OTHER DISTURBED AREAS.
- AFTER RECEIVING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR:
  - CLEAN OUT TRAPS AND RESTORE GRADIES.
  - STABILIZE ALL RESTORED AREAS.
  - REMOVE ALL SEDIMENT TRAPS, COMPLETE BUILDING CONSTRUCTION AND PAVING.
  - REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES.



**APPROVED:** HOWARD COUNTY OFFICE OF PLANNING AND ZONING

**CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:**

*[Signature]* 3-19-87

**APPROVED:** FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

**CHIEF, BUREAU OF ENGINEERING:**

*[Signature]* DATE: 3-19-87

HOWARD SOIL CONSERVATION DISTRICT

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

DISTRICT: *[Signature]* DATE: 12/16/86

APPROVED: HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *[Signature]* DATE: 10/16/86

THE UNITED STATES SOIL CONSERVATION SERVICE

**Dewberry & Davis**

Engineers Architects Planners Surveyors

804 WEST BROAD AVENUE  
GAITHERSBURG, MARYLAND 20877  
(301) 948-8800

**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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 12/16/86  
REG. NO. 42926 DATE

**CHESAPEAKE HOMES INC.**

1531 EDGEWOOD ST. STE. M  
BALTIMORE, MD 21227

**OWNER'S CERTIFICATE**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DETERMINED NECESSARY. I ALSO CERTIFY THAT ANY RESPONSIBLE PERSON 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 & EROSION BEFORE BEGINNING THE PROJECT.

BY: *[Signature]* TITLE: DATE: 12/16/86

**EROSION & SEDIMENT CONTROL**

VILLAGE OF KINGS  
CONTRIVANCE

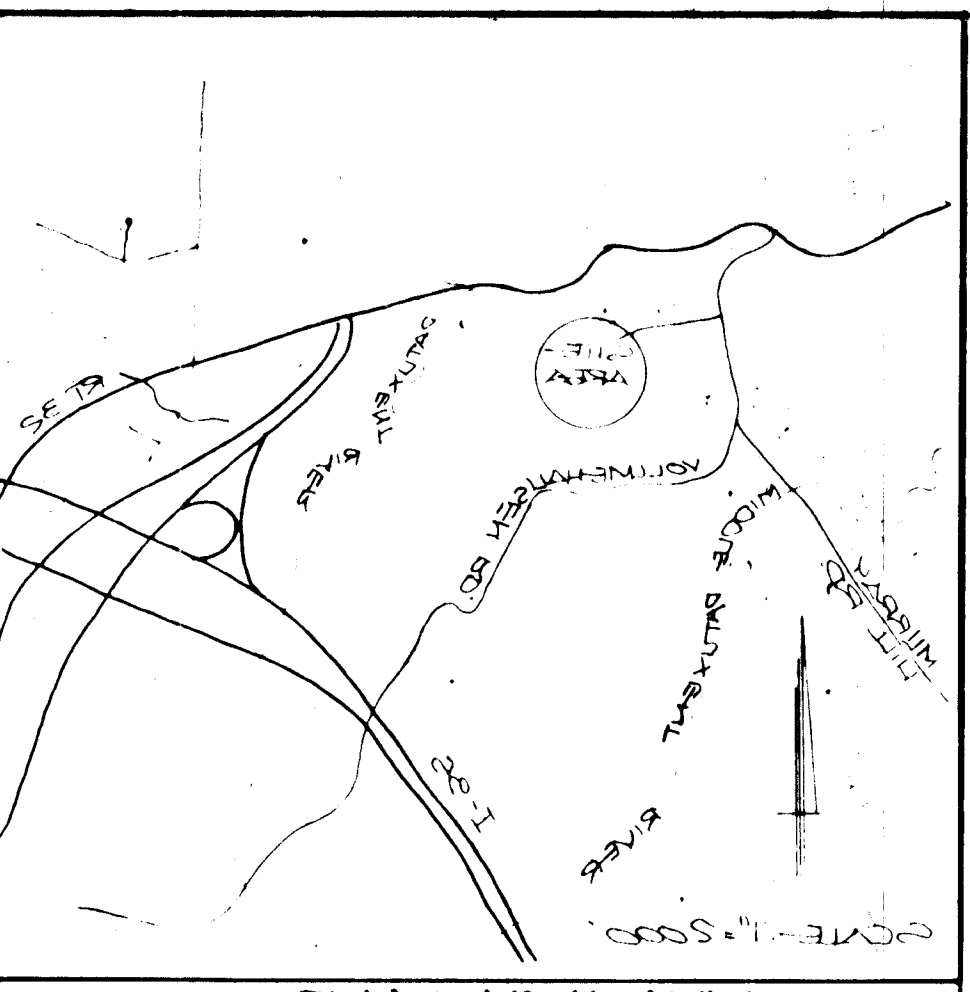
LOT 177 PLOT 157 SECTION 3 AREA 1

TAX MAP NO. 42 8TH. ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE: AS SHOWN DATE: FEB., 1986 SHEET 8 OF 0 FILE: S-161

AS-BUILT 11-2-88 F-86-158





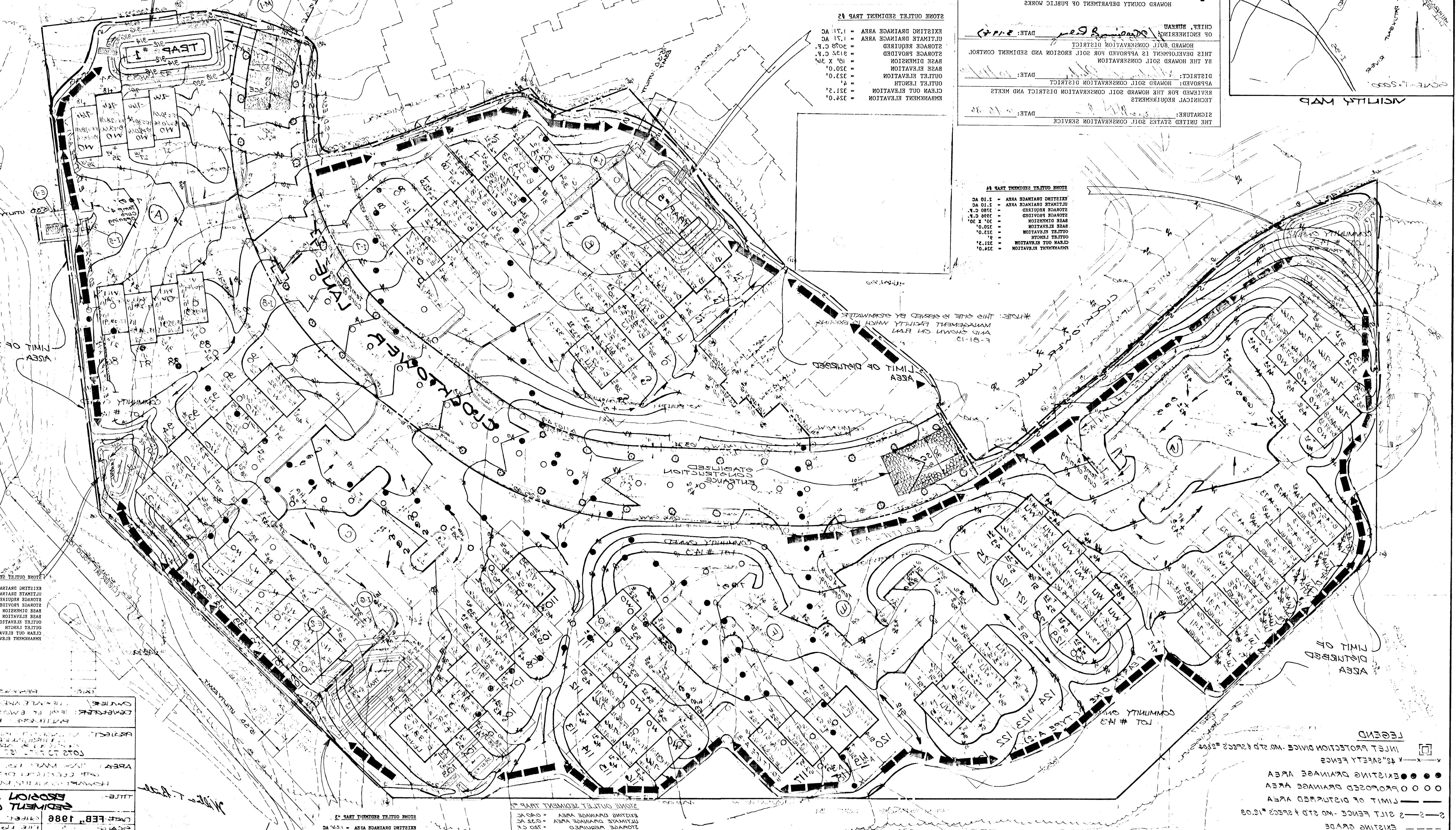
THE UNITED STATES SOIL CONSERVATION SERVICE  
 SIGNATURE: \_\_\_\_\_ DATE: 11-28-88  
 TECHNICAL REVIEWER:  
 REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS  
 APPROVED: HOWARD SOIL CONSERVATION DISTRICT  
 DISTRICT: HOWARD SOIL CONSERVATION DISTRICT  
 DATE: 11-28-88  
 THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL  
 BY THE HOWARD SOIL CONSERVATION DISTRICT  
 CHIEF, BUREAU  
 OF ENGINEERING  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE  
 SYSTEMS, AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 11-28-88  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION:  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 DATE: 11-28-88

ENGINEER'S CERTIFICATE  
 "I HEREBY CERTIFY THAT THIS PLAN FOR FOND 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. I HAVE NOTICED THE DEVELOPER'S STATEMENT THAT HE HAS REVIEWED THE HOWARD SOIL CONSERVATION DISTRICT'S "AS-BUILT" OF THE FOND WITHIN THIRTY (30) DAYS OF COMPLETION."  
 SIGNATURE OF ENGINEER: \_\_\_\_\_  
 DATE: 11-28-88

DEVELOPER'S CERTIFICATE  
 "I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, FOND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS DEMAND NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE FOND WITHIN THIRTY (30) DAYS OF COMPLETION."  
 SIGNATURE OF DEVELOPER: \_\_\_\_\_  
 DATE: 11-28-88

STONE OUTLET SEDIMENT TRAP #1

EMPAKMENT ELEVATION	= 318.0'
GRAIN OUT ELEVATION	= 317.2'
OUTLET LENGTH	= 7'
OUTLET ELEVATION	= 317.0'
BASE ELEVATION	= 315.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2500 C.F.
STORAGE REQUIRED	= 2800 C.F.
EXISTING DRAINAGE AREA	= 1.20 AC



STONE OUTLET SEDIMENT TRAP #2

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #3

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #4

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #5

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #6

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #7

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

STONE OUTLET SEDIMENT TRAP #8

EMPAKMENT ELEVATION	= 324.0'
GRAIN OUT ELEVATION	= 321.2'
OUTLET LENGTH	= 4'
OUTLET ELEVATION	= 323.0'
BASE ELEVATION	= 320.0'
BASE DIMENSION	= 10' X 30'
STORAGE PROVIDED	= 2125 C.F.
STORAGE REQUIRED	= 3025 C.F.
EXISTING DRAINAGE AREA	= 1.21 AC

LEGEND

- TEMP. SHALE - MD STD # SPEC'S #19.03
- EARTH DIKE - MD STD # SPEC'S #19.03
- STABILIZED CONSTRUCTION ENTRANCE - MD STD # SPEC'S #14.03
- PROPOSED GRADE
- EXISTING GRADE
- 2'-2' SILT FENCE - MD STD # SPEC'S #12.03
- LIMIT OF DISTURBED AREA
- EXISTING DRAINAGE AREA
- PROPOSED DRAINAGE AREA
- 1" SAFETY FENCE
- INLET PROTECTION DITCH - MD STD # SPEC'S #11.03

**Dewberry & Davis**  
 Engineers Architects Planners Surveyors  
 8801 LOCH AVALON BLVD. BETHESDA, MARYLAND 20814  
 PHONE: 301-291-1333  
 FAX: 301-291-1333  
 DATE: FEB. 1988  
 SHEET: 2-101  
 TITLE: SEDIMENT CONTROL PROVISION AND AREA FOR CONSTRUCTION