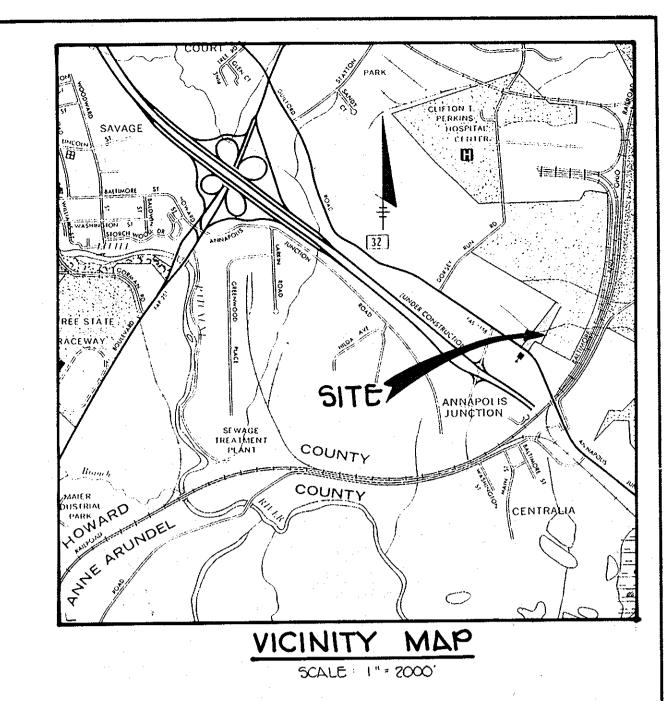
 	SHEET INDEX				
NO. DESCRIPTION					
1	TITLE SHEET				
2	SITE DEVELOPMENT PLAN AND DETAILS				
3	DETAILS AND PLANTING PLAN				
4	SEDIMENT CONTROL PLAN, SWM PLAN, AND DRAINAGE AREA MAP				
5	SWM NOTES AND DETAILS				
6	SEDIMENT CONTROL NOTES AND DETAILS				

SITE DEVELOPMENT PLAN

HEALTH WATERS BUILDING 2

6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



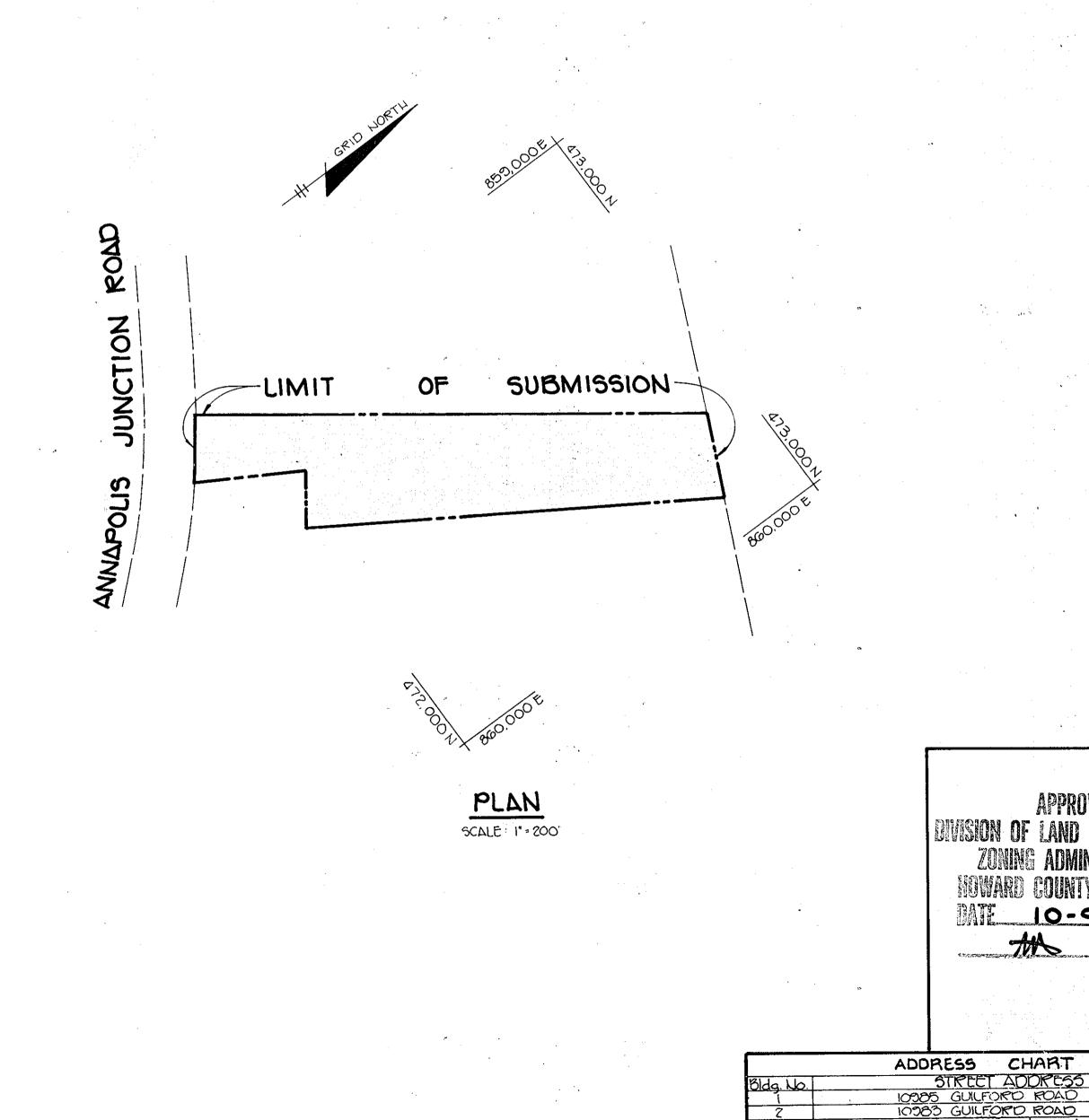
HOWARD COUNTY BUREAU OF UTILITIES 992-2366 393-3553 AT&T CABLE LOCATION DIVISION 685-0123 BALTIMORE GAS AND ELECTRIC COMPANY 531-5533 STATE HIGHWAY ADMINISTRATION HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION 992-2417/2418

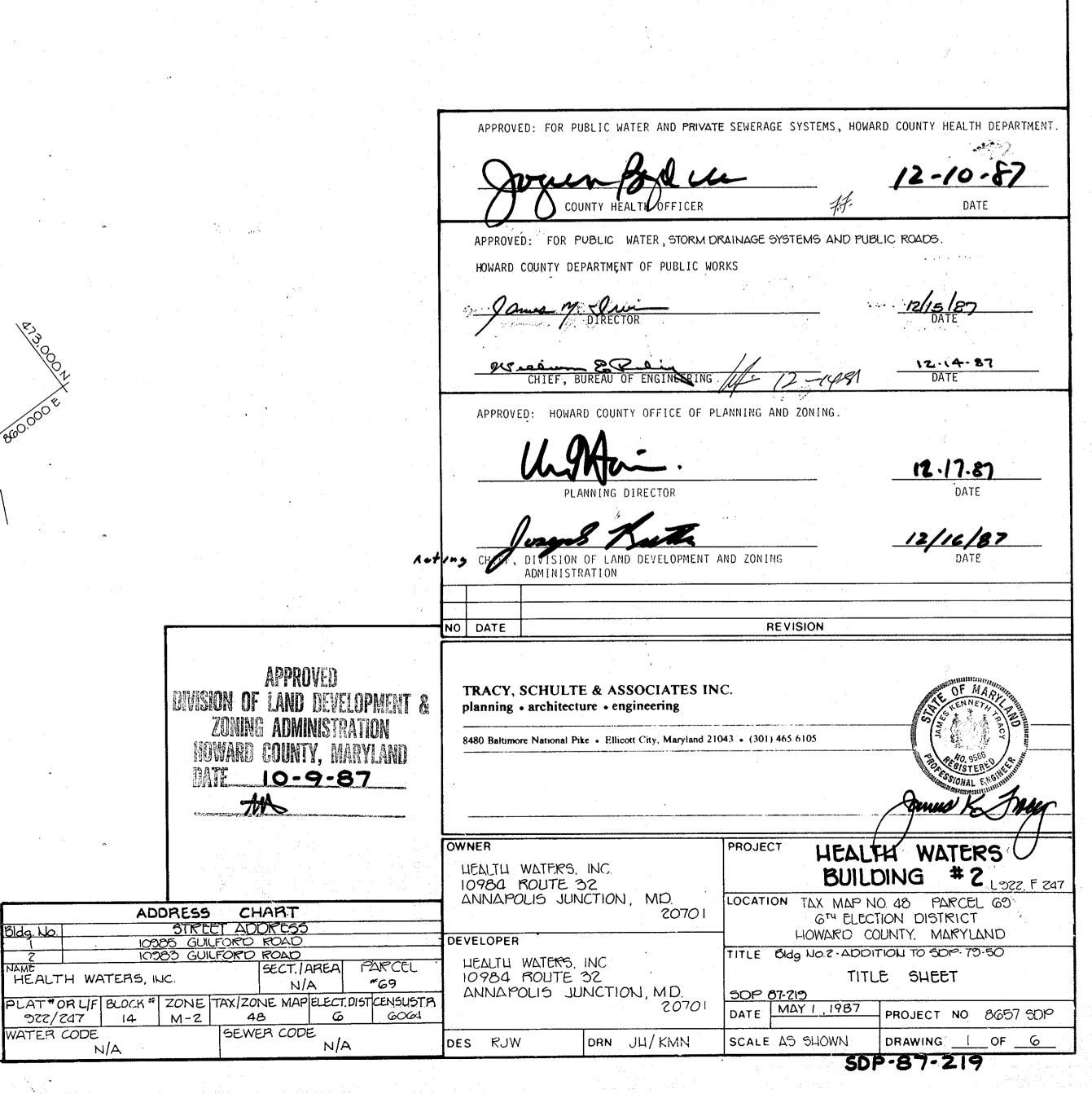
- 7. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- 8. ALL PIPE ELEVATIONS SHOWN ARE INVERT (
- 9. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 2'-0" OF EXTERIOR
- 10. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- 11. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- 12. TOPO TAKEN FROM FIELD RUN SURVEY BY TRACY SCHULTE AND ASSOCIATES INC DATED OCTOBER, 1986

SITE DATA TABULATION

TOTAL NUMBER OF PARCELS AREA OF PARCEL ZONING		्र स्टब्स्युस्तर्थन	1 6.137 Ac.(267,328 sq. ft.) M-2
BUILDING USE OFFICE WAREHOUSE			OFFICE/WAREHOUSE 3,840 sq. ft. 15,360 sq. ft.
BUILDING AREA		TOTAL	19,200 sq. ft.
MAXIMUM EMPLOYEES PER SHIFT:	EX. BUILDING 1	BUILDING 2	TOTALS
OFFICE WAREHOUSE TOTAL	8 -4 -12	17 20 37	49
PARKING SPACES:	EX. BUILDING 1	BUILDING 2	TOTALS
REQUIRED OFFICE (@ 1/200 s.f.) WAREHOUSE (@ 1/1500 s.f.)	6	19.2	≎ ⁄₀
PROVIDED	6	34	40.00
OPEN SPACE TO REMAIN (GREEN			4.28 Ac.
BUILDING COVERAGE	(Ex. Bldg7 (Prop. Bldg.	7500 sq.ft.)	0% } 10% 12% }
AREA OF PARKING LOTS			6480 sq. ft.
LANDSCAPED ISLANDS (PROVID	ED IN THE PARKING	s (OTS) ""	194% (882 sq. ft.)
DISTURBED AREA			3.03 Ac.
AREA TO BE RESEEDED			1.81 Ac.
•••			
	• .		58 (425)
		•	•

-





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48

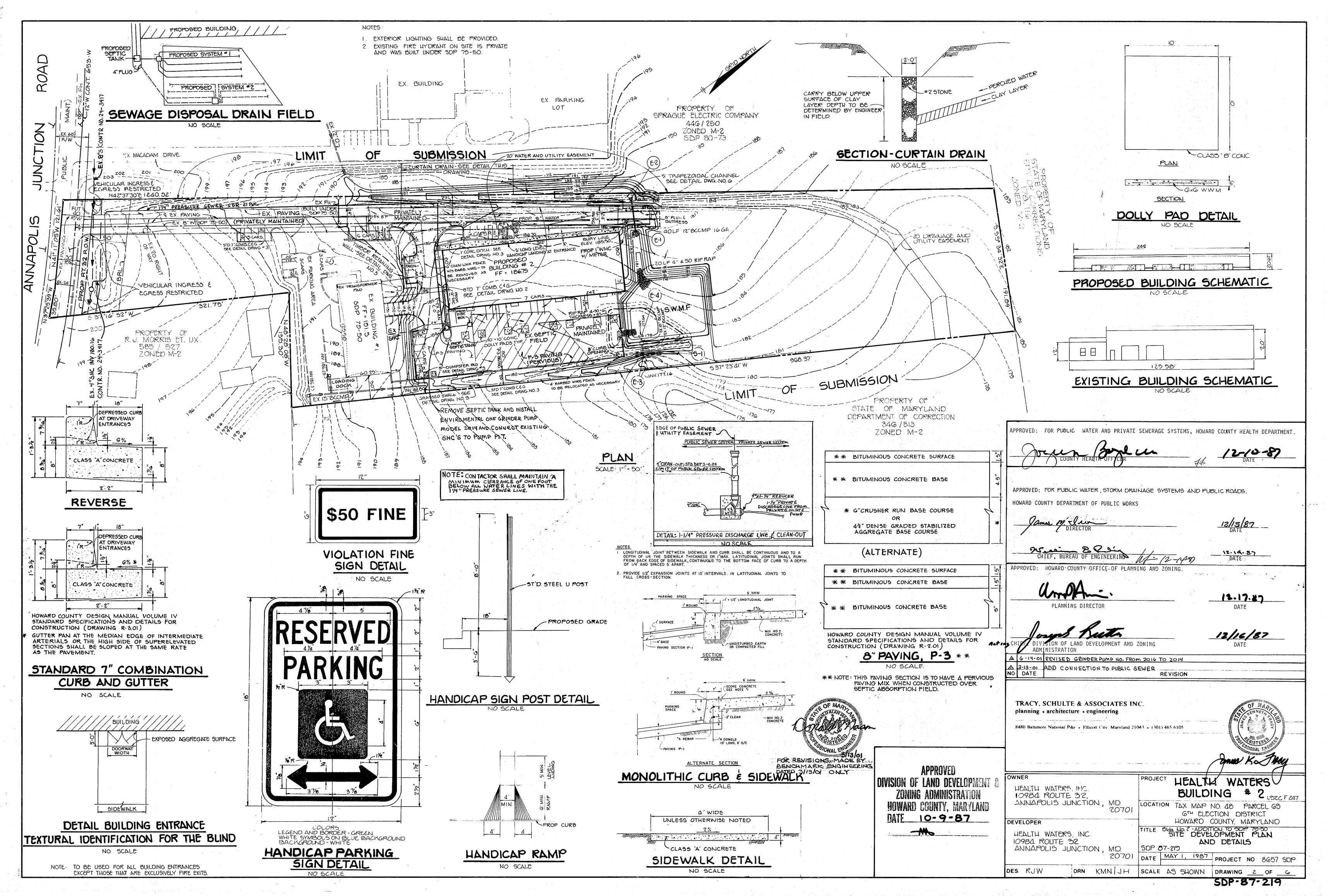
SEWER CODE

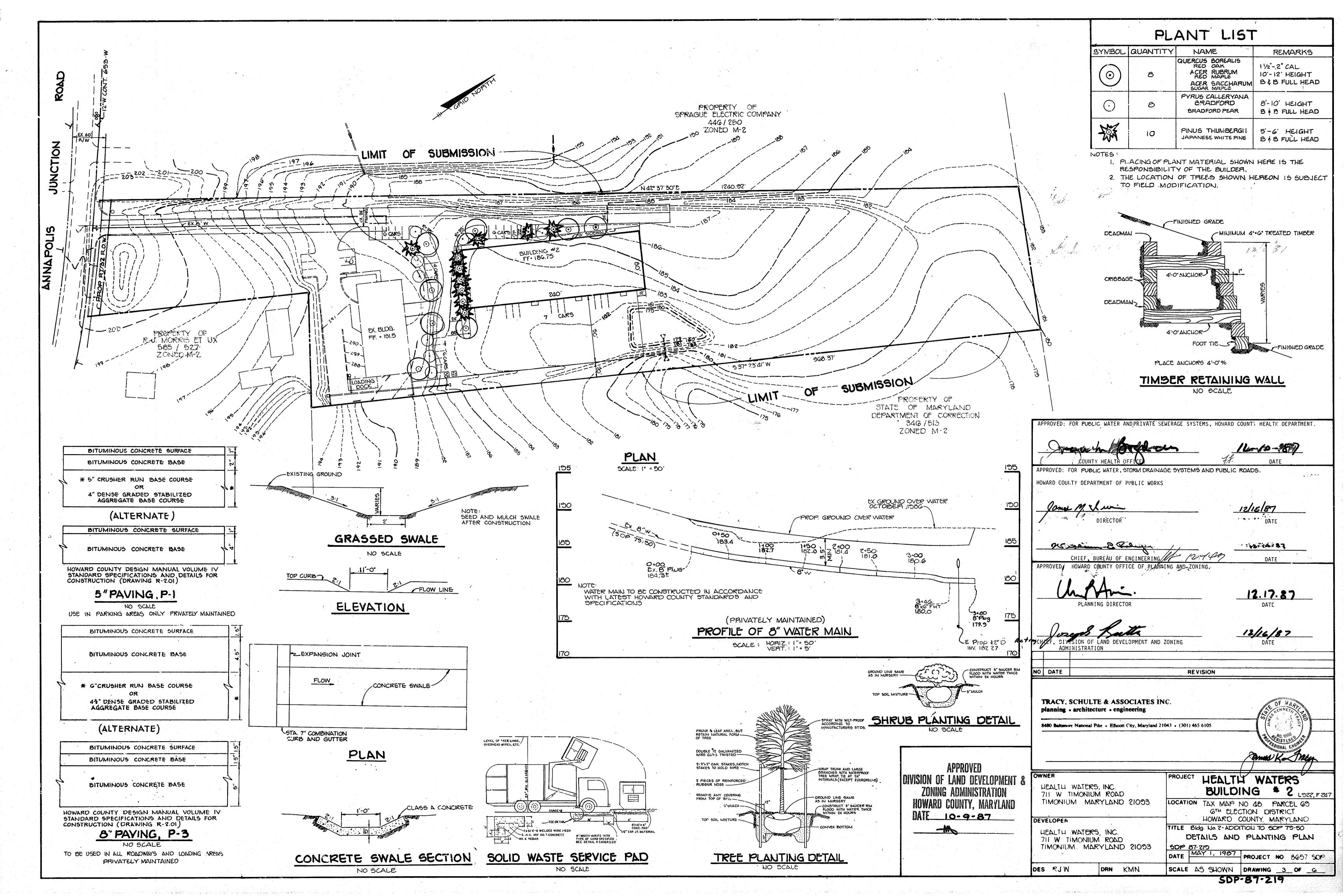
HEALTH WATERS INC.

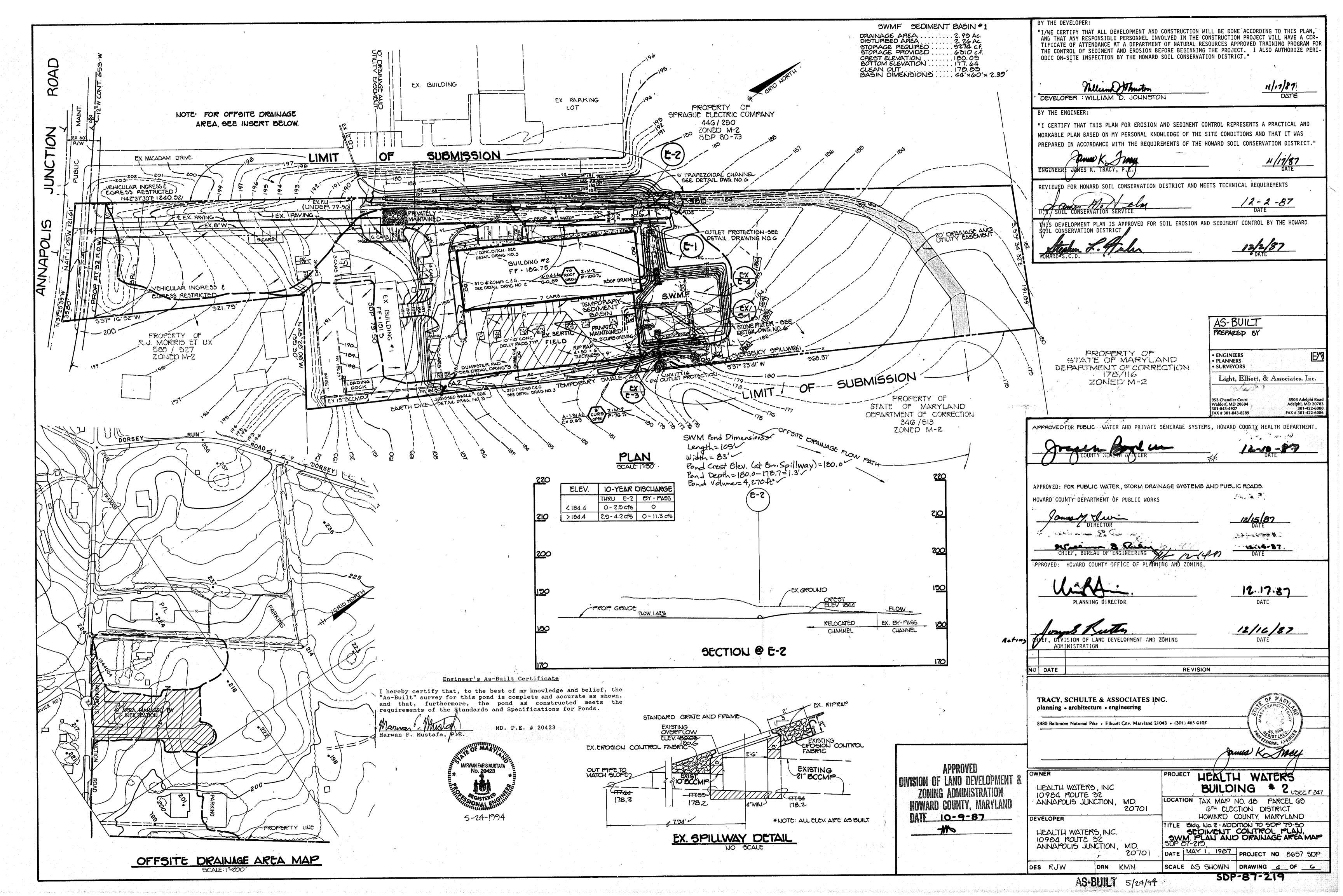
727/238

WATER CODE

14 M-2







i. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped 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, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below 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

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. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill 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 porous borrow material shall be placed in the downstream portions of 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 can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be I to I or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material 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 tamp-ers or other compaction equipment. The material needs to fill 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 or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specifications M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

- 2. Connections All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Dimple bands are not considered to be watertight.
- 3. 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
- 4. Laying pipe The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- 5. Backfilling shall conform to structural backfill as shown above.
- 6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe

- Materials Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. An approved equivalent is AWWA Specification C-301.
- 2. Bedding All reinforced conrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrece placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3". or as shown on the drawings.
- 3. Laying pipe Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.
- 4. Backfilling shall conform to structural backfill as shown above.
- 5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- C. For pipes of other materials, specific specifications shall be shown on the drawings.

V. CONCRETE

- - Cement Normal Portland cement shall conform to the latest ASTM Specification C-150.
 - b. Water The water used in concrete shall be clean. free from oil, acid, alkali, scales, organic matter or other objectionable substances.
 - c. Sand The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
 - d. Coarse Aggregate The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1) inches.
 - e. Reinforcing Steel The reinforcing steel shall be deformed bars of intermediate grade billet
- steel conforming to ASTM Specification A-615. 2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.
- 3. Mixing The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper con-trol of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.
- 4. Forms The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

The inside of forms shall be oiled with a nonstaining mineral oil or thoroughly wetted before concrete is placed.

Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the

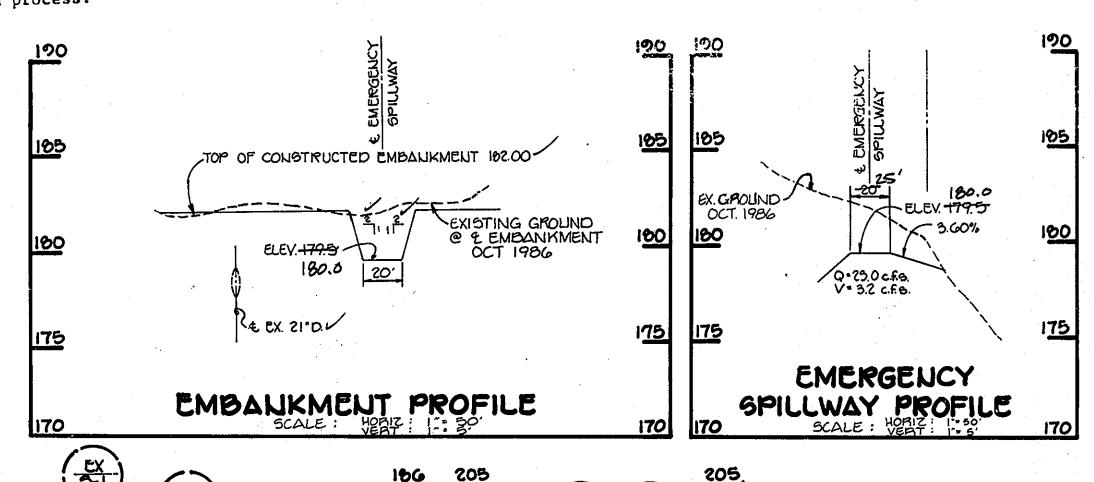
- 5. Reinforcing Steel All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.
- 6. Consolidating Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be suplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.
- 7. Finishing Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.
- 8. Protection and Curing Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being planed. Moisture may be applied by spraying or appinkling as necessary to prevent the concrete from dry.ng. Concrete shall not be emposed to freezing during the curing pented. Curing compounds may kiss be used...
- 9. Placing Temperature Concrete may not be placed at temperatures below 37°F with the temperature falling, or 34° with the temperature rising.

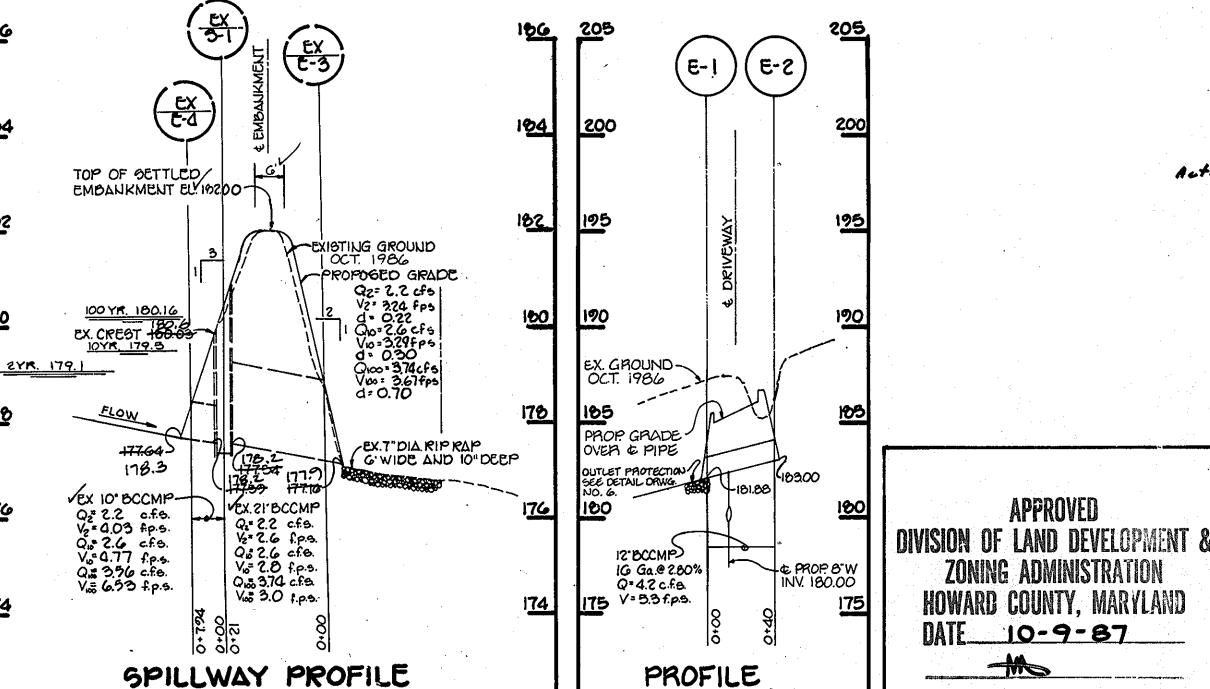
VI. STABILIZATION

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 (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and 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.





Light, Elliott, & Associates, Inc. 953 Chandler Court Waldorf, MD 20604 301-843-4927 8508 Adelphi Road Adelphi, MD 20783 301-422-6080 FAX # 301-422-6086 FAX # 301-843-8589 BY THE DEVELOPER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN. AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CER-TIFICATE 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 PERI-

11/17/87

AS-BUILT

PREPARED BY

ENGINEERS

SURVEYORS

• PLANNERS

BY THE ENGINEER:

"I 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.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

ODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD

WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD EQUINTY HEALTH DEPT

APPROVED FOR PUBLIC WATERSTORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

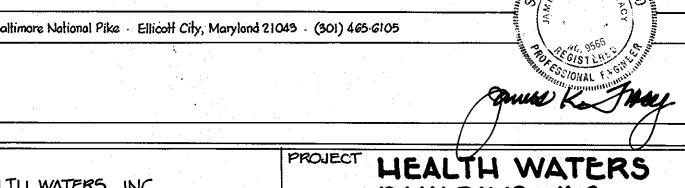
1344197 18:14-8

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

TRACY, SCHULTE & ASSOCIATES INC. planning architecture engineering

APPROVED

8480 Baltimore National Pike Ellicoff City, Maryland 21043 (301) 465-6105



HEALTH WATERS, INC. BUILDING #2 LOZZ FZ47 10984 ROUTE 32 ANNAPOLIS JUNCTION, MD. LOCATION TAX MAP NO. 48 PARCEL GO 20701 G'th ELECTION DISTRICT EVELOPER HOWARD COUNTY, MARYLAND

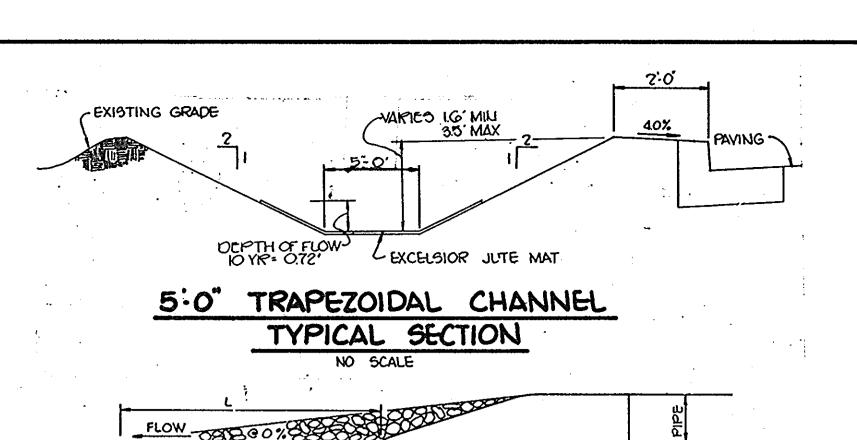
TITLE BILLA. No. 2-ADDITION TO SOP 79-50 HEALTH WATERS, INC. SWM SPECIFICATION AND DETAIL 10981 ROUTE 32 SDP 87.219 ANNAPOLIS JUNCTION, MD. MAY 1, 1987 PROJECT NO 8657 SDP DATE

> SCALE AS SHOWN DRAWING 5 OF 6 DRN SAB

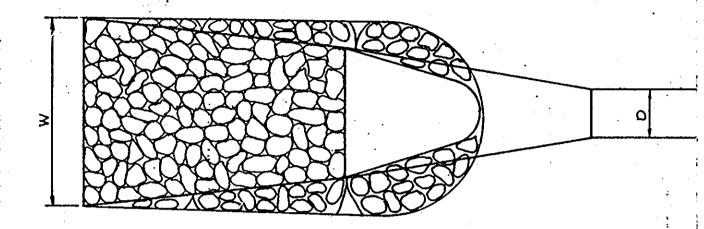
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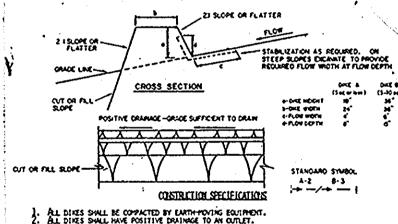
SECTION



PLAN

STRUCTURE	d - 50	LENGTH (L)	WIDTH (W)	THICKNESS (T)
ピー	6 "	12'	14.0	ව"

OUTLET PROTECTION DETAIL



1. ALL DIRES SHALL BE COPPACTED BY EARTH-MOTING EQUIPMENT.
2. ALL DIRES SHALL HAVE POSITIVE DRAINGSE TO AN OUTLET.
3. TOP/SIDTH MAY SE MIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADLASTED AS RECED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIRES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. PLACES SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT PLANT MERCE AREA ABOVE THE DIRE ARE NOT ADEQUATELY STABILIZED. ACQUATELY STASILIZED.

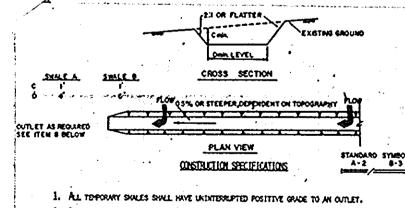
STABILIZATION SHALL SE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAIN HALDO OR STRAIN HALDO IF NOT IN SEEDING SEASON, (B) FLON OWNER AS PER THE OWNER SELON.

BLOK CHRNEL STABILIZATION DIVE A .5-3.00 SCED AND STRAY FULCH SEED AND STRAK MULCH SEED AND STRAW MULCH SEED USING JUTE, OR DIDENSION; SOD; 2 STONE . 5.1-3.04 SEED MITH JUTE, OR SOO; LINED FLIP-FLAP 4-8" 8.1-204 . LINED RIP-RAP 4-8"

EARTH DIKE NO SCALE

C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR MAY OF THE ABOVE MATERIALS.

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



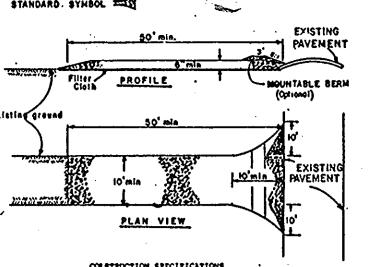
2. DIVENTED RANGE FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDDIENT TRAPPING Diverted range from an undistursed area shall outlet directly into an undistursed stabilized area at non-erosive velocity. 4. All trees, brush, stupps, obstructions, and other objectionable haterial shall be reported and disposed of so as not to interfere with the proper functioning of the sake.

5. The sace sacl be dignated or saped to line, gade, and gross section as regulad to heet the criteria specified herein and be free of bank projections or other inegalarities which will dippede horal from 6. FILLS SHILL BE COMPLETED BY EARTH HOVING EQUIPMENT.

7. ALL EARTH REPOYEE AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT MILL NOT INTERFERE WITH THE PLACEDONING OF THE SHALE. 8. STABILIZATION SHILL BE AS PER THE OWRT BELOK: BOY CHAND STABILIZATION

A (5 Ac on less) BCK-10K) SEED AND STRAW PLLON SEED AND STRAIF PLUCH 3.1-5.01 HOURT HAVET? ON CEED? SEED USING JUTE OR 8.1-207 LDED 4-8" RIT-PAP ENGINEERED DESIGN

> TEMPORARY SWALE NO SCALE



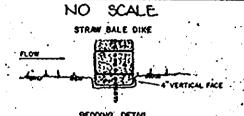
Filter will not be required on a single family residence lot.

6. Surface Mater - All surface water flowing or diverted toward const

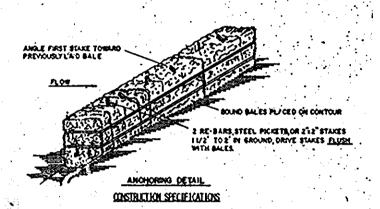
be removed immediately.

8. Mashing - Mneels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. Then vashing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping

STABILIZED CONSTRUCTION ENTRANCE



STANDARD SYMBOL

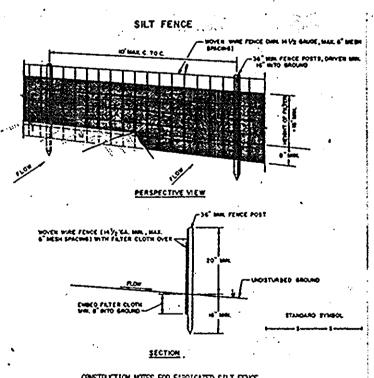


BULES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH BUS TIGHTLY ABUTTING THE ADMICTOR BALES. EAST BALE SHALL BE EMBEDGED IN THE SOIL A HIXDRAM OF (A) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.

3. BALES SHALL BE SECRELY ANODRED IN PLACE BY ELTHER THO STAYES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAYE IN EACH BALE SHALL BE DRIVEN TORING THE PREVIOUSLY LAID BALE AT AN APPLE TO FORCE THE BALES TOCETHER. STAYES SHALL BE DRIVEN PLUSH WITH THE BALE.

4. Inspection shall be frequent and repair replacement shall be ince properly as 5. BLES SHALL BE REMOVED HIEN THEY HAVE SERVED THEIR RESERVINESS SO AS NOT TO BLOCK OR DIPETE STORM FLOW OR DRAININGS.

STRAW BALE DIKE



CONSTRUCTION NOTES FOR FARRICATED SILT FENCE POSTS: STEEL EITHER T OR U

. WOVEN HIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS HITH HIRE TIES OR STAPLES.

FILTER CLOTH: FILTER X.
FIRMEI HUX, STABILINA THAN OR APPROVED
EDUL ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. PREFARRICATED UNIT: GEOGRAS, ENVIROPENCE, OR APPROVED

FENCE NO SCALE

FENCE: House wise, 14. Ga.

1) A MINIMON OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS

2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PRO-VISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS

ZATION SHULL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT INTROL STRUCTURES. DIKES. PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. b) 14

AT ALL SECTION TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR

5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN CERMINATION AND ESTABLISHMENT OF CRASSES

6) 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

TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED

AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 1bs/1000 sq ft) BEFORE SEEDIN

Acceptable - Apply 2 tons per acre dolonitic linestone (92 lbs/1000 sq fe

MULCHING - APPLY 14 TO 2 TONS PER ACRE (70 TO 90 16s/1000 eq ft) OF UNROTTED SHALL CRAIN STRAW INCEDIATELY AFTER SEEDING. ANCHOR MULCH INVEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 gal/1000 eq ft) OF EMPLSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 CALLONS PER ACRE (8 gal/

apply to graded or cleared areas likely to be redisturbed where a short-term vegetative SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 1bs/1000 sq ft) SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU MOVENER 15, SEED WITH 24 BUSHEL PER ACRE OF ANNUAL RYE (3.2 16s/1000 sq ft). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 lbs/1000 sq fc). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MILCR AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO. MULCHING: APPLY 14 TO 2 TONS PER ACRE (70 to 90 16s/1000 sq ft) OF UNROTTED SMALL GRAIN STRAW INDEDIATELY AFTER SEEDING. ANCHOR MALCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 CAL PER ACRE (5 gal/1000 sq ft) OF EMPLSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 gal/1000 sq ft) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

OSTAIN A GRADING PERMIT. CLEAR AND GRUB AREAS FOR AND INSTALL SEDIMENT CONTROL DEVICES. MODIFY EX.SWMF/TEMPORARY SEDIMENT BASIN. EXCAYATE TO DIMENSIONS SHOWN IN SEDIMENT BASIN DATA AND STABILIZE AS PER TEMPORARY SEEDING NOTES. AND BLOCK LOW FLOW ORIFICE DURING CONSTRUCTION

CLEAR AND GRUB REMAINDER OF SITE WITHIN LIMITS OF DISTURBANCE. GRADE CHANNEL ALONG NORTH EDGE OF SITE AND STABILIZE IN ACCORDANCE WITH DETAIL AND PERMANENT SEEDING NOTES. MAINTAIN FLOW FROM NEWLY INSTALLED CHANNEL ALONG NORTH EDGE OF PROPERTY. GRADE REMAINDER OF SITE.

INSTALL ALL UTILITIES EXCEPT 12" BCCMP BETWEEN E-1 AND E-2. STABILIZE ALL SLOPES AS PER PERMANENT SEEDING NOTES. COMPLETE ALL SITE CONSTRUCTION. PRIOR TO PAYING DRIVENAY AREA. HSTALL 12" BOCKP BETWEEN E-1 AND E-2; PLACE TEMPORARY BLOCKING AT

TEMPORARY SEDIMENT BASIN. UPON APPROVAL OF SEPIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES AND CONVERT SEDIMENT TRAP TO PERMANENT STORM WATER

> A) DEWATER BASIN BY PUMPING INTO A SEDIMENT TRAP OR WELL-STABILIZED YEGETATED AREA AS DIRECTED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR;
>
> B) REMOVE SILT AND RESTORE POND TO ORIGINAL DIMENSIONS AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES;
>
> C) REMOVED SILT SHALL BE SPREAD ACROSS THE AREA NORTHWEST OF SWIF AND SEEDED IN ACCORDANCE WITH PERMANENT SEEDING NOTES;

D) UNBLOCK 12" BCCMP AT E-2.

E-2 TO PREYENT OFFSITE WATER FROM ENTERING SWA FACILITY AND

BY THE DEVELOPER:

" I/WE CERTIFY THAT ALL DEVELOPHENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN. AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CER-TIFICATE 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 PERI-ODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER: WILLIAM D. JOHNSTON

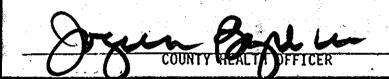
BY THE ENGINEER:

"I 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."

HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

SCIL CONSERVATION DISTRICT

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT



16-10-87

Approved: for public water, storm drainage systems and public roads.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

PLANNING DIRECTOR

12.17.87

12-14-87

DATE

DIVISION OF LAND DEVELOPMENT AND ZONING '

12/16/87

ADMINISTRATION

HEALTH WATERS, INC.

10984 ROUTE 32

DES. RJW

NO DATE

DRN. SAR

TRACY, SCHULTE & ASSOCIATES INC.

planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

Sanos Ko Tras

HEALTH WATERS BUILDING # 2 LOZZ F.ZAT

REVISION

HEALTH WATERS, INC. 10984 ROUTE 32 ANNAPOUS JUNCTION, MD. LOCATION TAX MAP NO.48 PARCEL GO G'HA ELECTION DISTRICT HOWARD COUNTY, MARYLAND DEVELOPER

20701

TITLE Bldg. No. 2. ADDITION TO SOF 79-50 SEDIMENT CONTROL NOTES & DETAILS ANNAPOUS JUNCTION, MD.

90°58 40°C MAY 1, 1987 DATE: PROJECT NO 8657 SDP

DRAWING 6 OF 6 SCALE: AS SHOWN SDP-87-2.19

STONE FILTER @ LOW FLOW ORIFICE NO SCALE

COVER END SECTION WITH NO. 2 STONE

-BOTTOM OF

SEDIMENT TRAP

· 4" WIRE MESH CARRIED 1½ PIPE DIAMETERS

PAST END SECTION IN ALL DIRECTIONS

AND FIRMLY TACKED INTO GROUND.

10-9-87

HOWARD COUNTY, MARYLAND

cause Allo