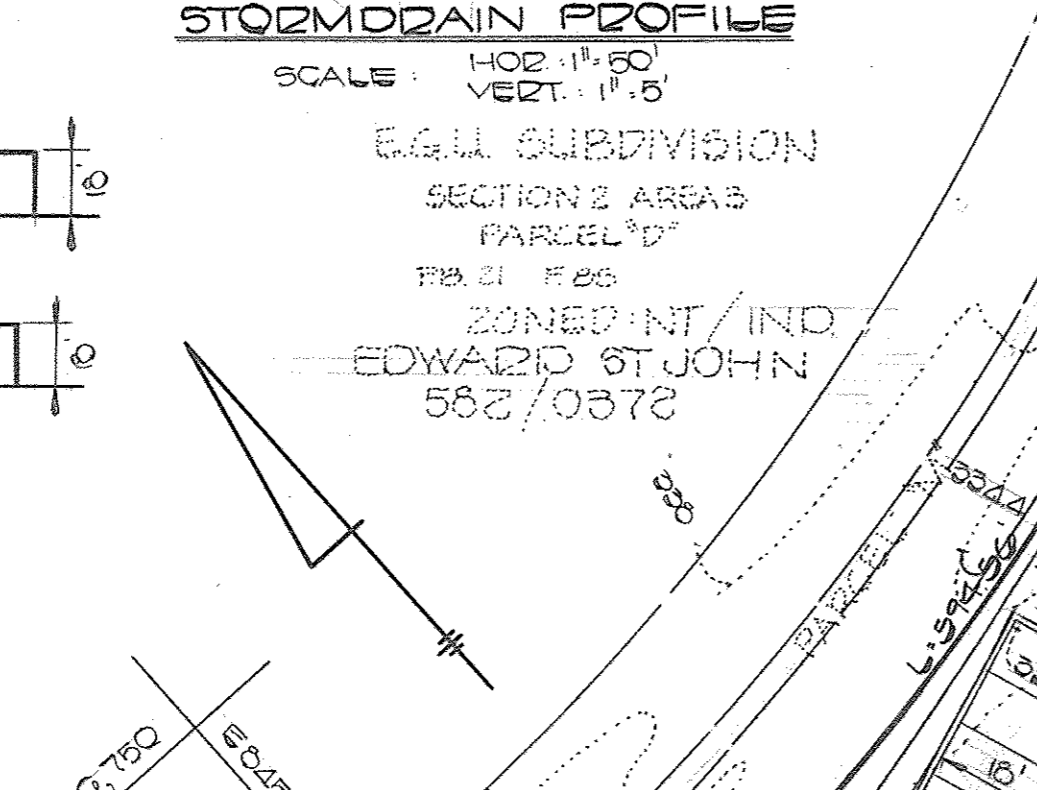
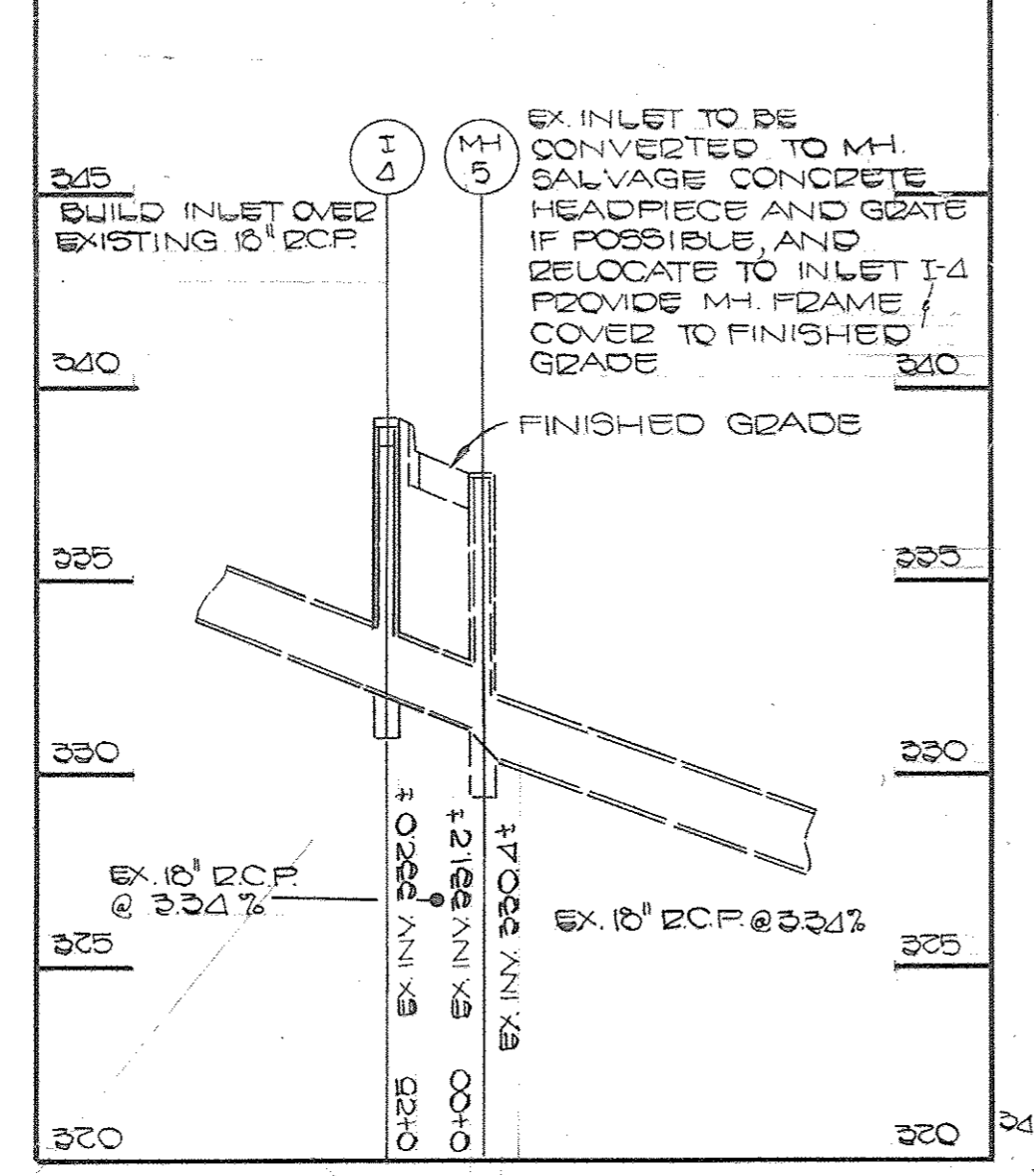
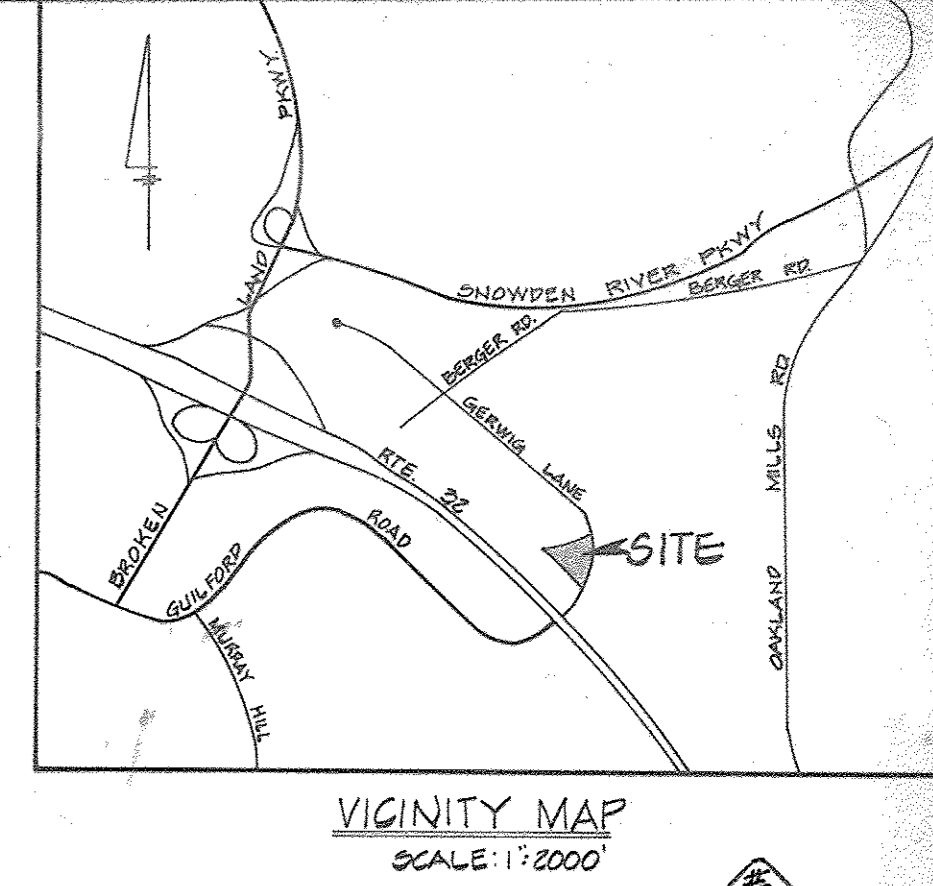
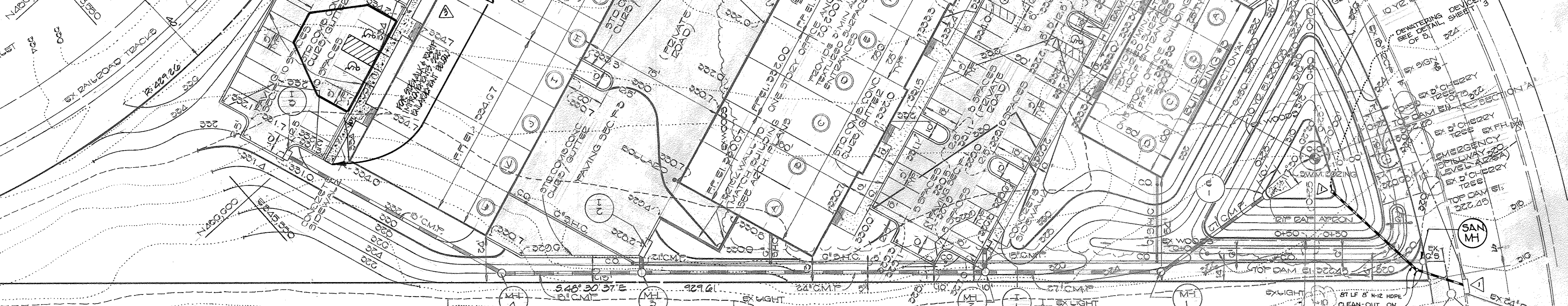
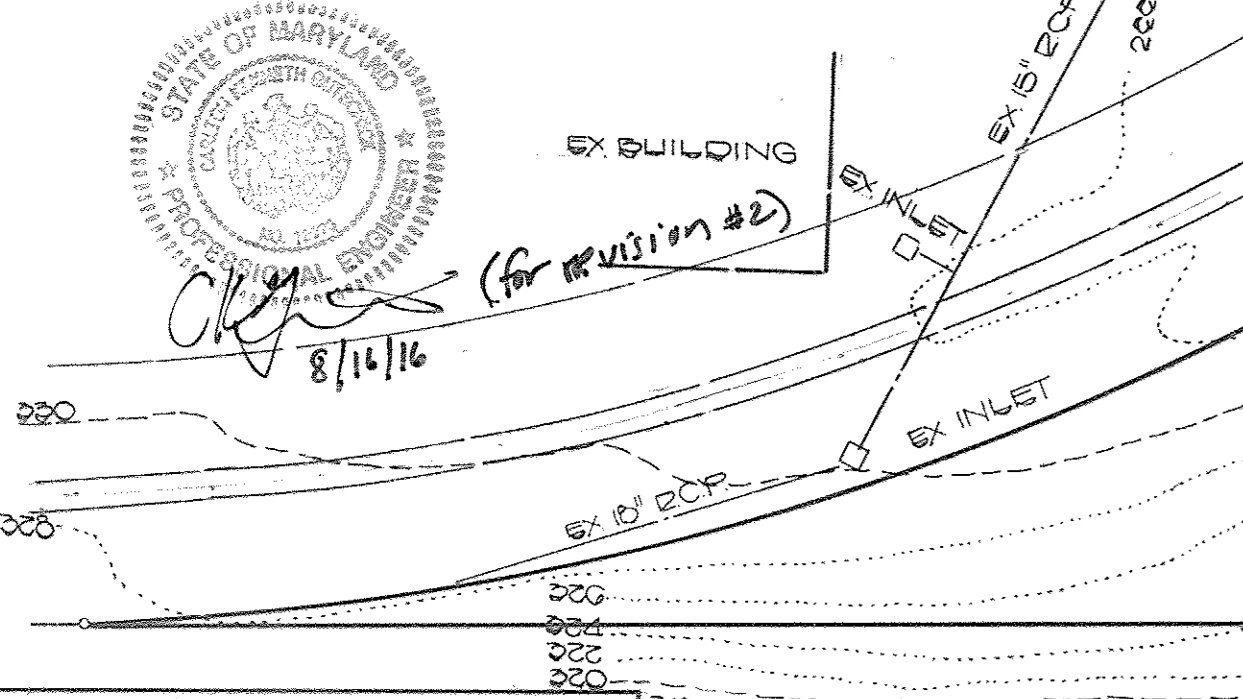


- GENERAL NOTES:**
- TOTAL AREA OF PARCEL: 4.269 AC.±
  - PRESENT ZONING: NEW TOWN (N.T.-EMPLOYMENT CENTER INDUSTRIAL)
  - PROPERTY IS RECORDED IN PLAT BOOK 27 AT FOLIO 63.
  - FINAL DEVELOPMENT PLAN PHASE B5 IS RECORDED IN PLAT BOOK 19, AT FOLIO 132.
  - PROPERTY IS SHOWN ON TAX MAP 42, PART OF PARCEL 411.
  - PARKING DATA:
    - INTENDED USE OF STRUCTURE: OFFICES, OFFICE/WAREHOUSE, AND FOOD BANK CLIENT AREA
    - TOTAL AREA BUILDING: 49,600 S.F. (27% COVERAGE)
    - TOTAL AREA OFFICES: 18,700 S.F.
    - TOTAL AREA WAREHOUSE: 27,281 S.F.
    - TOTAL RETAIL: 1,976 S.F.
  - TOTAL NUMBER OF SPACES REQUIRED: 613 SPACES
    - FOR OFFICES:
      - 5 SPACES/1000 S.F. NET LEASABLE AREA DEVOTED TO RETAIL SALES: 1,976 S.F. = 1,976/5 = 395 SPACES
      - 2 SPACES/1000 S.F. OFFICE USE: 18,700 S.F. = 1000 x 2 = 200 SPACES
    - 1 SPACE/MAX. NUMBER OF INDUSTRIAL EMPLOYEES: 22 EMPLOYEES (PROJECTED) = 1 x 22 SPACES
    - TOTAL NUMBER OF SPACES PROVIDED: 100 SPACES
      - REGULAR SPACES (9' x 18'): 90 SPACES
      - HANDICAPPED SPACES (8' x 10'): 5 SPACES
      - OPEN SPACE (GREEN AREA): 1.60 AC.± (37%)
  - THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS PRIOR TO COMMENCEMENT OF WORK AT 992-2437.
  - HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED".
  - ALL PAVING AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
  - EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD AND OFFICE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE MAKING ANY CONNECTION THERETO OR EXCAVATING IN THE AREA THEREOF.
  - THE CONTRACTOR SHALL NOTIFY MISS UTILITY 555-0100 A MINIMUM OF THREE DAYS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON.
  - SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.



**Professional Certification**

I hereby certify that these plans were prepared or approved by me as a duly Licensed Professional Engineer under the laws of the State of Maryland, License No. 14745, Expiration Date: May 26, 2018.



**ADDRESS CHART**

BUILDING NO.	STREET ADDRESS
1	9385 GERWIG LANE
2	9375 GERWIG LANE
3	9365 GERWIG LANE

**APPROVED PLANNING BOARD OF HOWARD COUNTY**

DATE: 4-2-86

Signature: *[Signature]*

**IMPROVEMENTS ALONG BUILDING #1**  
SCALE: 1" = 20'

**IMPROVEMENTS ALONG EAST GERWIG LANE BY OTHERS**  
SCALE: 1" = 20'

**IMPROVEMENTS ALONG WEST GERWIG LANE**  
SCALE: 1" = 20'

DATE: 4/10/16

DATE: 6/16/16

DATE: 1-30-96

DATE: NO REVISIONS

**FISHER, COLLINS & CARTER, INC.**

CIVIL ENGINEERS & LAND SURVEYORS

8388 COURT AVENUE

ELLCOTT CITY, MARYLAND 21043

(301) 461-2855

**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 COUNTY SOIL CONSERVATION DISTRICT.

Signature: *[Signature]*

DATE: 4/11/86

**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 ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature: *[Signature]*

DATE: 4/11/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature: *[Signature]*

DATE: 4-18-86

U.S. SOIL CONSERVATION SERVICE

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

APPROVED:

Signature: *[Signature]*

DATE: 4/18/86

DISTRICT: HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

Signature: *[Signature]*

DATE: 4-24-86

PLANNING DIRECTOR

Signature: *[Signature]*

DATE: 4-24-86

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

Signature: *[Signature]*

DATE: 4-28-86

HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

Signature: *[Signature]*

DATE: 4-22-86

DIRECTOR, PUBLIC WORKS

Signature: *[Signature]*

DATE: 4-22-86

CHIEF, BUREAU OF ENGINEERING

Signature: *[Signature]*

DATE: 4-22-86

SUBDIVISION: E.G.U. SUBDIVISION

SECTION/AREA: 2/2

PARCEL: F-2

PLAT NO.: 27/92

BLOCK NO.: 10

ZONE: N-IND

TAX/ZONE: 42

ELEC. DIST. GTH

SEWER CODE: 6000400

**SITE DEVELOPMENT PLAN**

COLUMBIA

E.G.U. SUBDIVISION

SECTION 2 AREA 3

PARCEL F-2

GTH ELECTION DISTRICT: HOWARD COUNTY, MD

SCALE: 1" = 20'

DATE: NOVEMBER 20, 2006

REVISED: APRIL 7, 2006

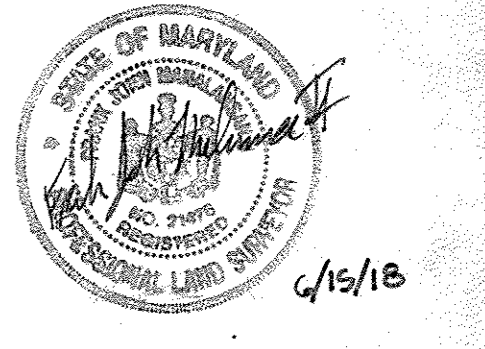
SHEET 1 OF 5

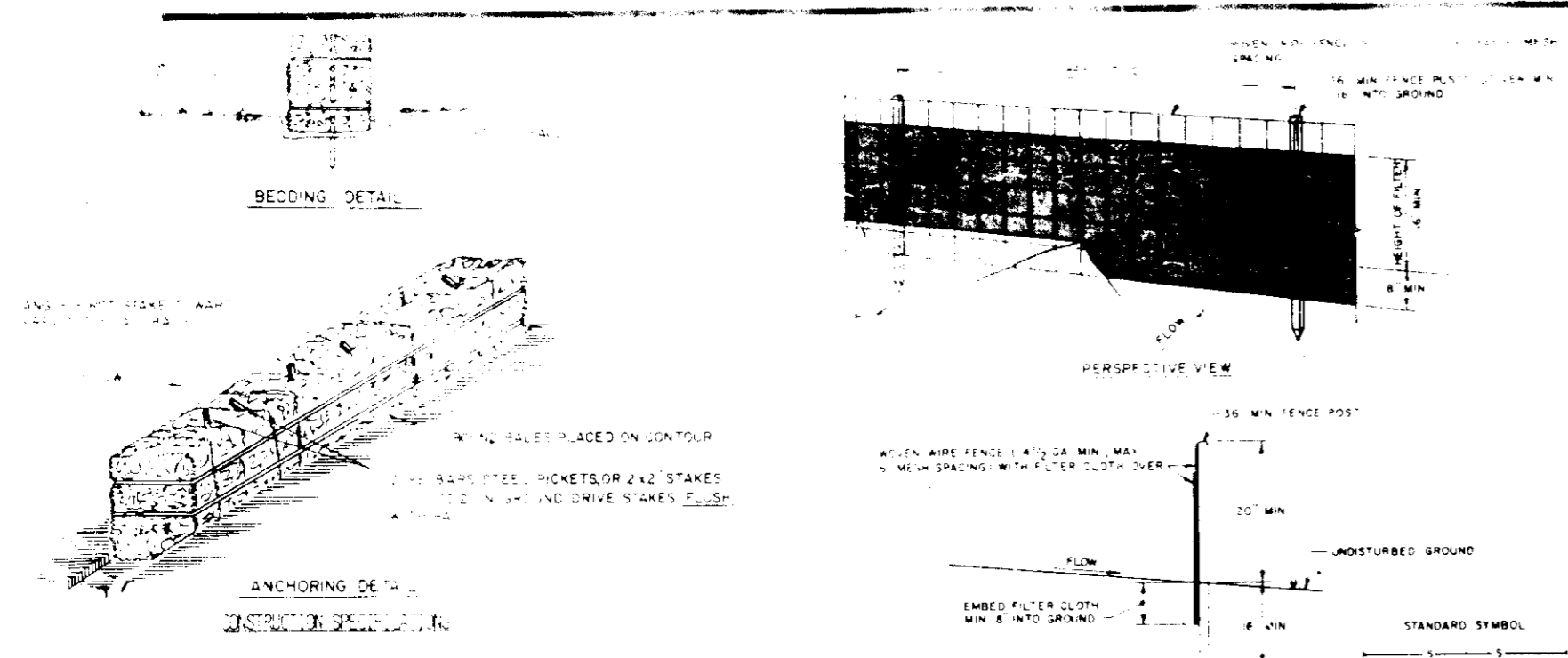
**WILLIAMS PROPERTIES**

JEROME M. WILLIAMS

6668 DOBBIN ROAD, COLUMBIA, MARYLAND 21046

PHONE: (301) 997-7766





1. CURB SHALL BE BEDDED ON 4" MIN. OF 1/2" SAND OR 2" MIN. OF 1/4" SAND WITH A MIN. OF 1/2" SAND ON TOP OF SAND.

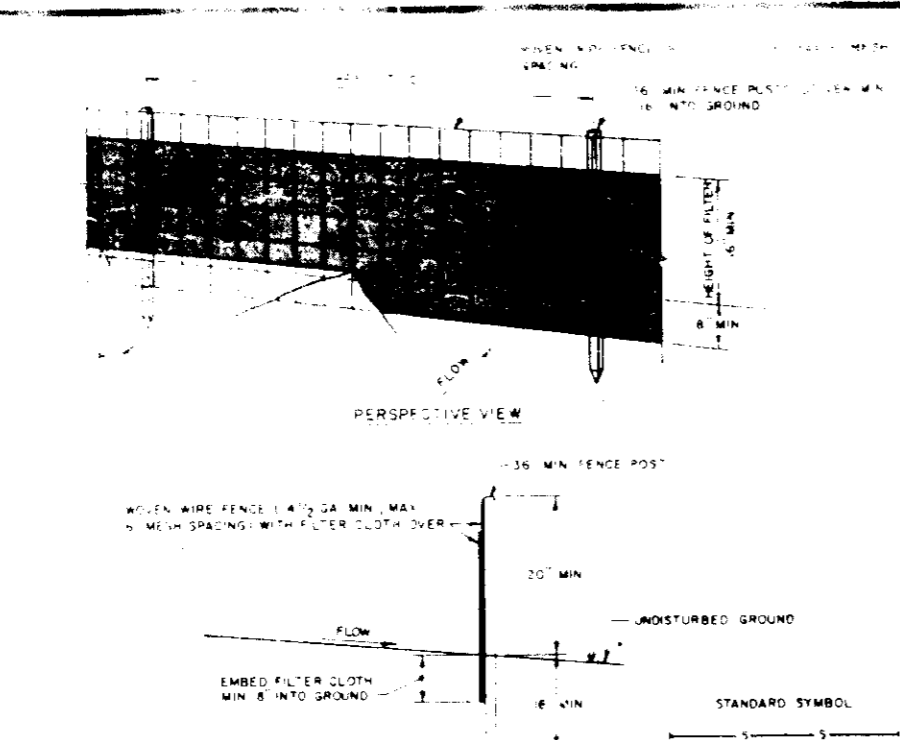
2. SAND SHALL BE BEDDED IN THE 10' MIN. SPACING AND PLACED IN THE SPACING ARE SPACED.

3. SAND SHALL BE BEDDED IN PLACE BY EITHER THE CURB OR REBAR OR THROUGH THE CURB. THE FIRST THREE IN EACH ROW SHALL BE BEDDED IN PLACE BY AN ANGLE TO FORCE THE SAND THROUGH. STAKES SHALL BE DRIVEN CLOSE WITH THE SAND.

4. INSPECTION WILL BE FREQUENT AND REPAIR REQUIREMENT SHALL BE MADE PROPERLY AS NEEDED.

5. SAND SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSES AS NOT TO BLOCK THE CURB.

**STRAW BALE DIKE**  
NOT TO SCALE

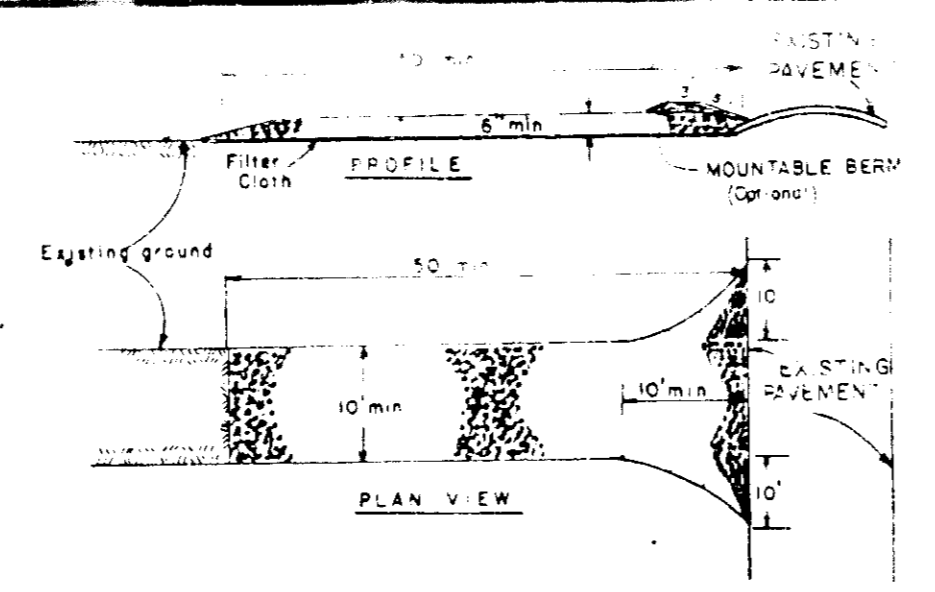


1. DIKES SHALL BE PLACED TO BE FASTENED TO THE CURB OR REBAR OR THROUGH THE CURB. THE FIRST THREE IN EACH ROW SHALL BE BEDDED IN PLACE BY AN ANGLE TO FORCE THE SAND THROUGH. STAKES SHALL BE DRIVEN CLOSE WITH THE SAND.

2. INSPECTION WILL BE FREQUENT AND REPAIR REQUIREMENT SHALL BE MADE PROPERLY AS NEEDED.

3. SAND SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSES AS NOT TO BLOCK THE CURB.

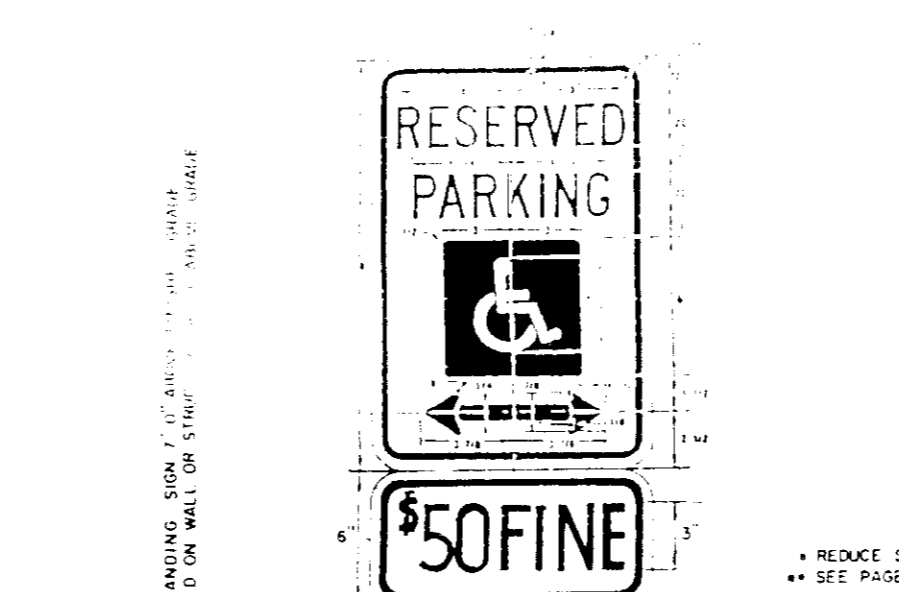
**SILT FENCE**  
NOT TO SCALE



**CONSTRUCTION SPECIFICATIONS**

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with six (6) slipper will be permitted. This will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

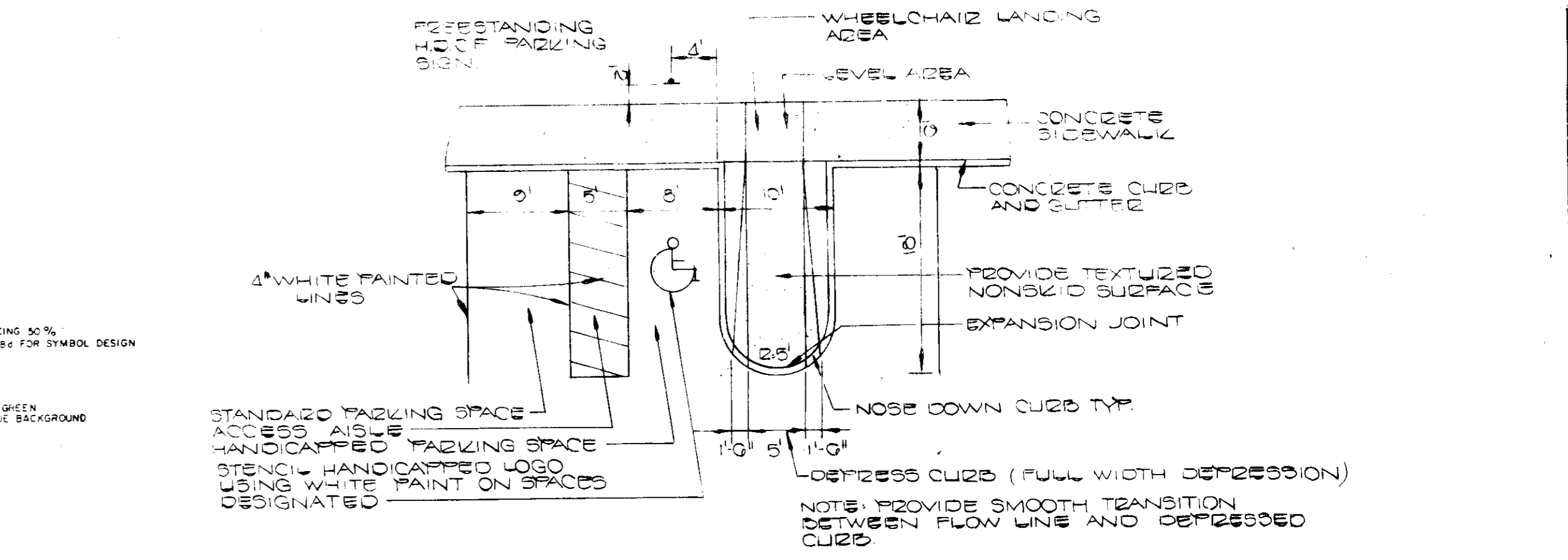
**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**HANDICAPPED SIGN DETAIL**

REMOVE SPACING 50%  
SEE PAGE 666 FOR SYMBOL DESIGN

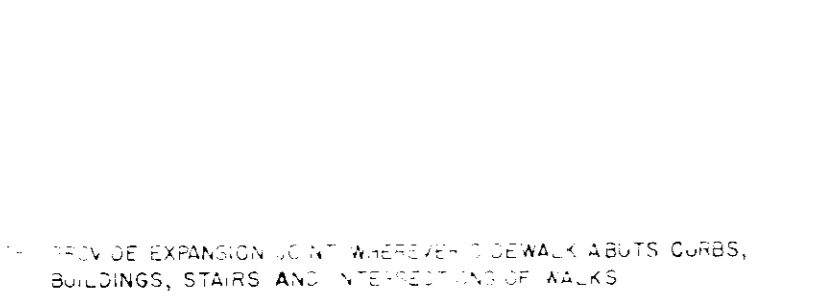
COLORS  
LEGEND AND BORDERS - GREEN  
WHITE SYMBOL ON BLUE BACKGROUND  
BACKGROUND WHITE



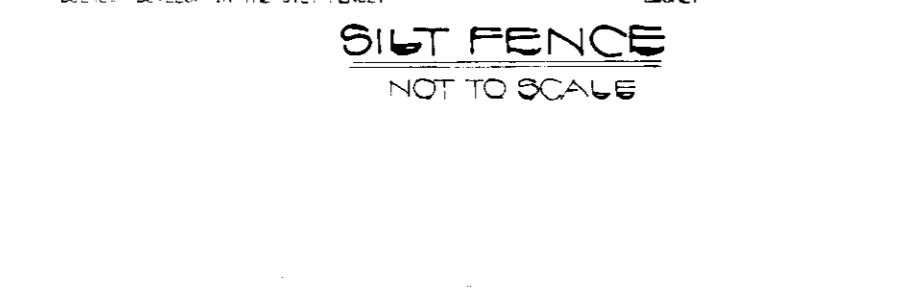
**TYPICAL PARKING SPACE / HANDICAPPED DUMP DETAIL**  
NOT TO SCALE

STANDARD PARKING SPACE  
ACCESSIBLE PARKING SPACE  
STENCIL HANDICAPPED LOGO  
USING WHITE PAINT ON SPACES

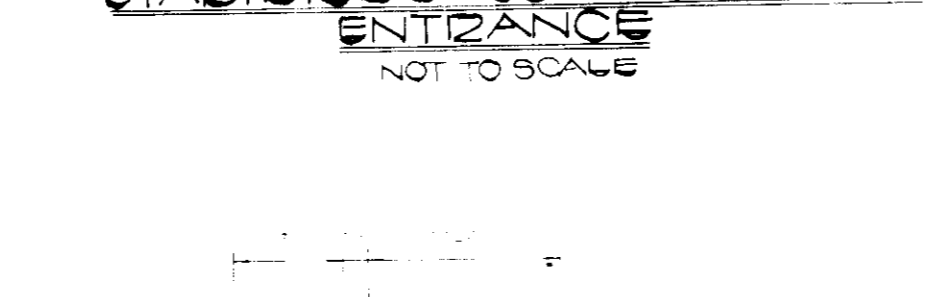
WHEELCHAIR LANDING AREA  
LEVEL AREA  
CONCRETE CURB AND GUTTER  
PROVIDE TEXTURED NONSLIP SURFACE  
EXPANSION JOINT  
NOSE DOWN CURB TYPE  
DEPRESS CURB (FULL WIDTH DEPRESSION)  
NOTE: PROVIDE SMOOTH TRANSITION BETWEEN FLOW LINE AND DEPRESSED CURB



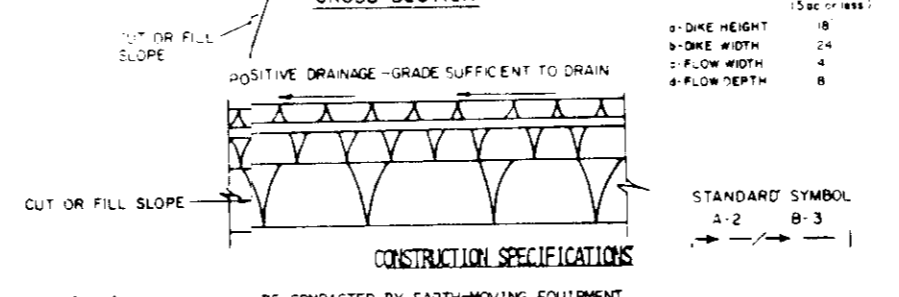
**SIDEWALK DETAIL**  
NOT TO SCALE



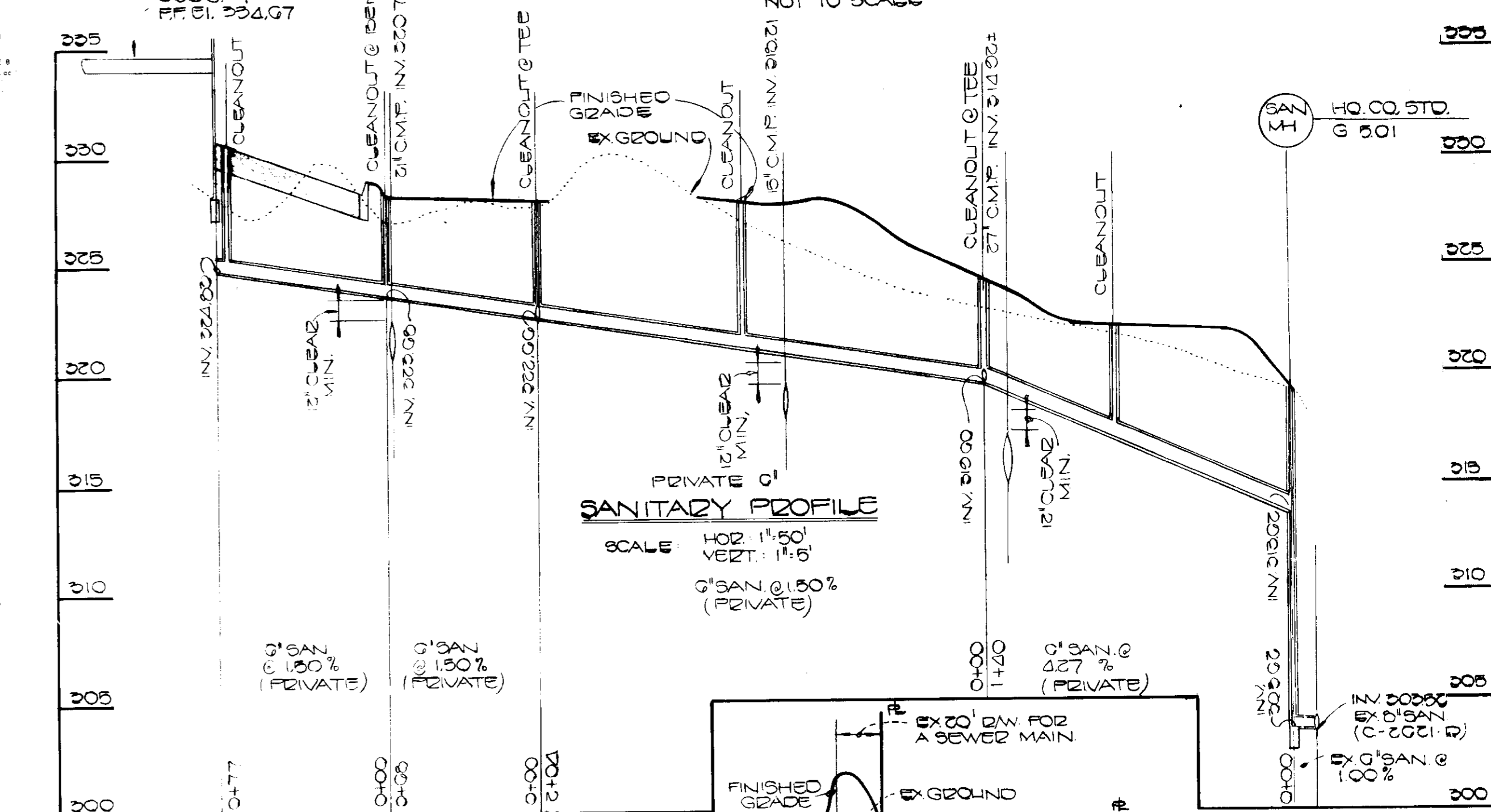
**STR. COMB. CONCRETE CURB / GUTTER**  
NOT TO SCALE



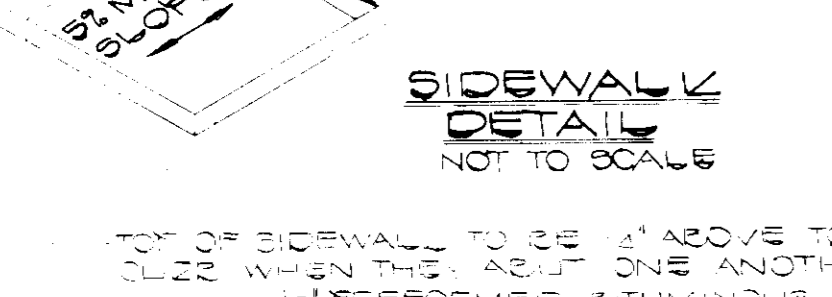
**FLUM CHANNEL STABILIZATION**  
NOT TO SCALE



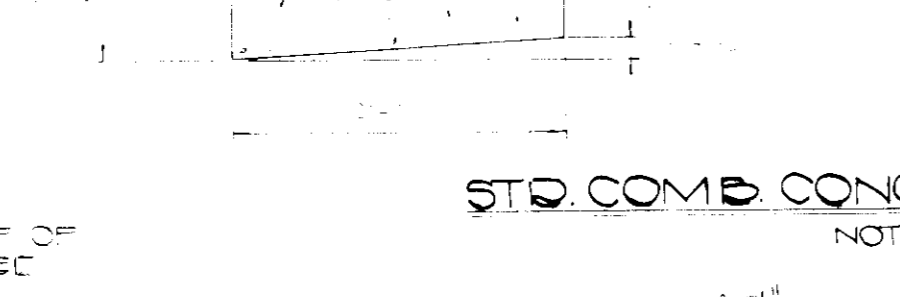
**EARTH DIKE**  
NOT TO SCALE



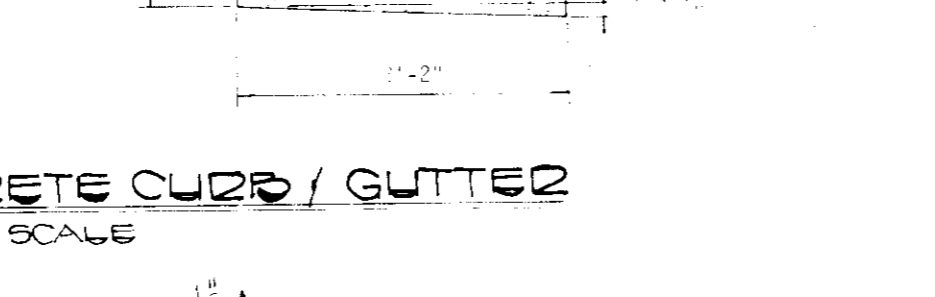
**SANITARY PROFILES**  
SCALE: HOR: 1"=50', VERT: 1"=5'



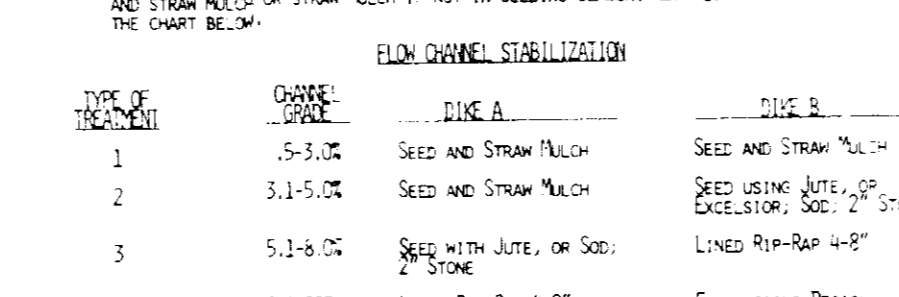
**TYPICAL PAVING SECTION**  
NOT TO SCALE



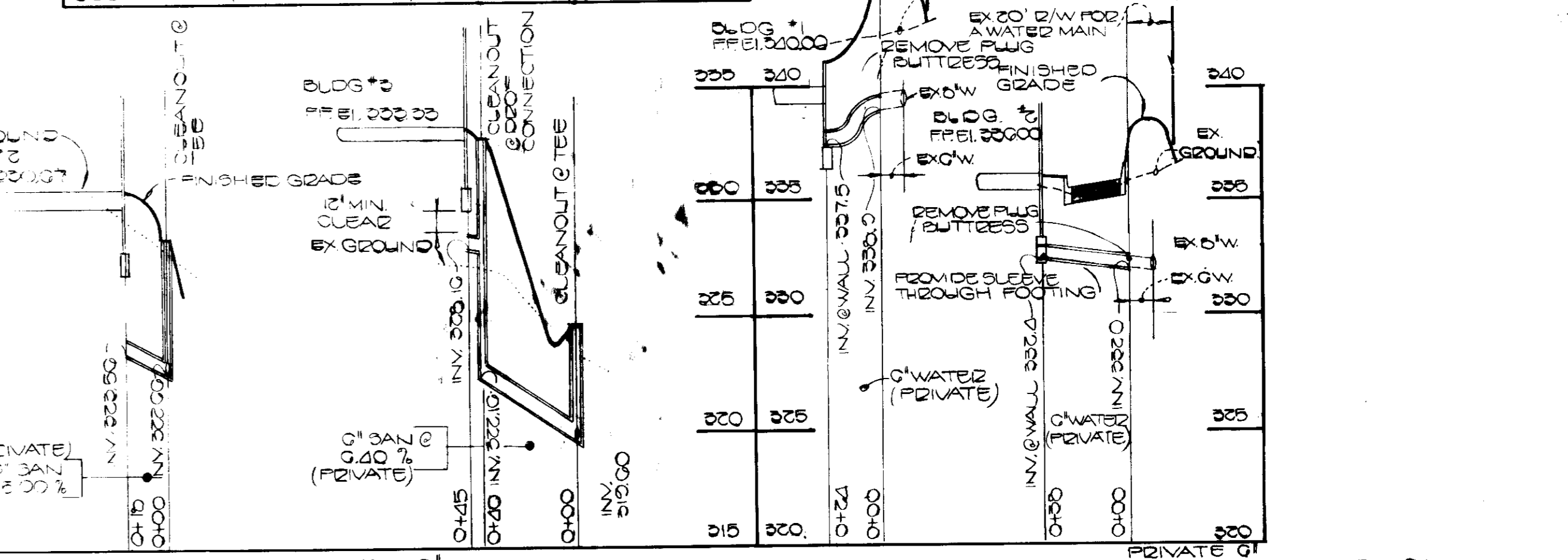
**TYPICAL CONCRETE PAD**  
NOT TO SCALE



**TYPICAL TREE PLANTING**  
NOT TO SCALE



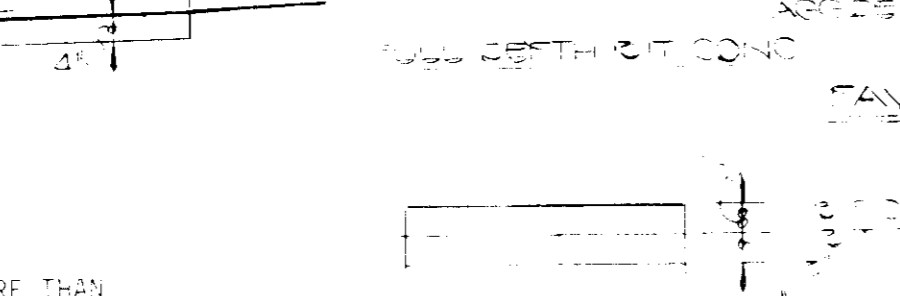
**INLET PROTECTION DETAIL**  
NOT TO SCALE



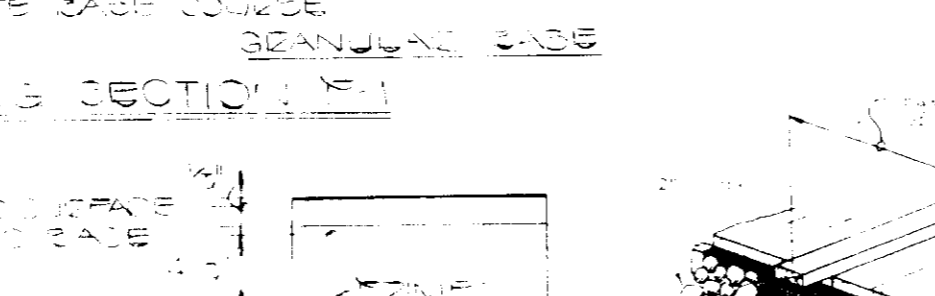
**WATER CONNECTION PROFILE**  
SCALE: HOR: 1"=50', VERT: 1"=5'



**CONCRETE SIDEWALK**  
NOT TO SCALE



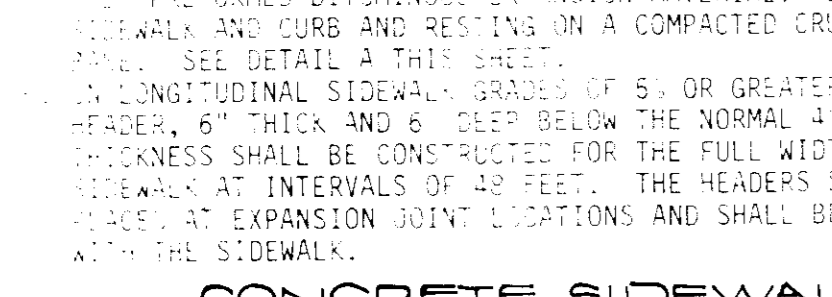
**TYPICAL TREE PLANTING**  
NOT TO SCALE



**INLET PROTECTION DETAIL**  
NOT TO SCALE



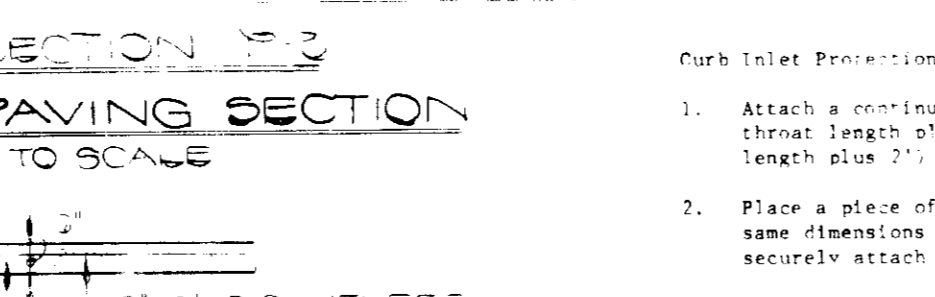
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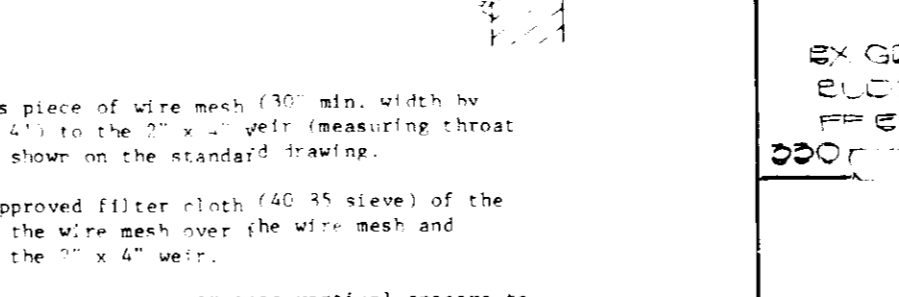
**CONCRETE SIDEWALK**  
NOT TO SCALE



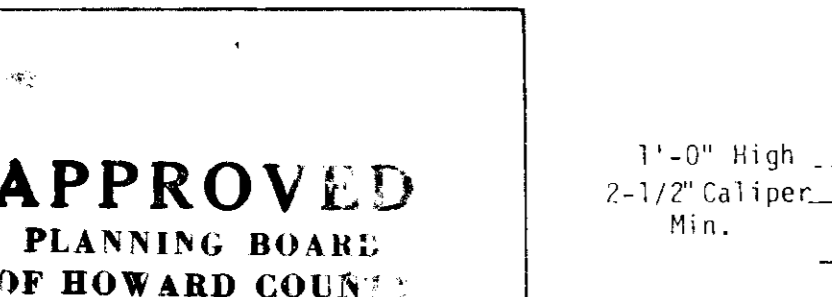
**TYPICAL TREE PLANTING**  
NOT TO SCALE



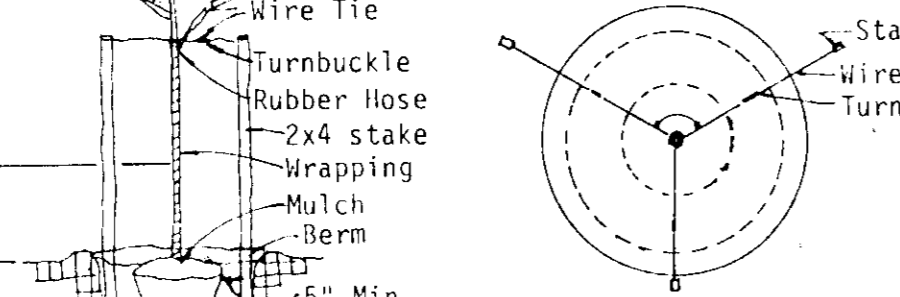
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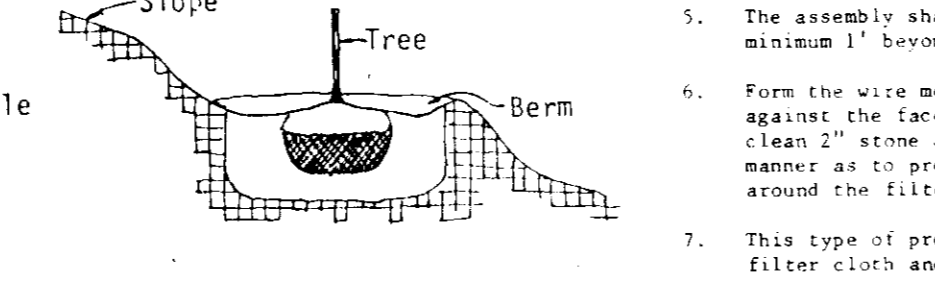
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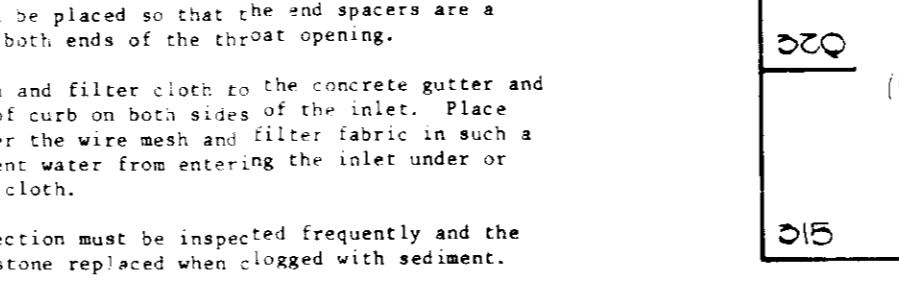
**CONCRETE SIDEWALK**  
NOT TO SCALE



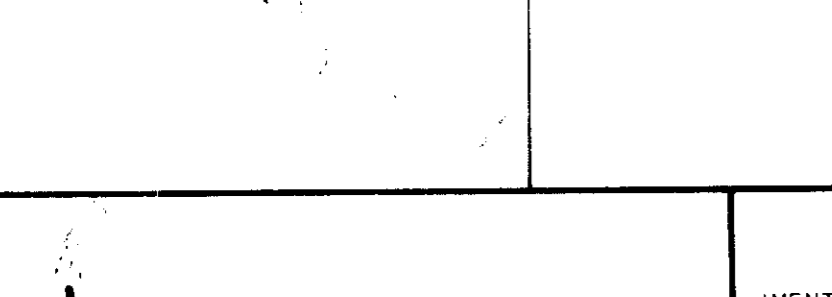
**TYPICAL TREE PLANTING**  
NOT TO SCALE



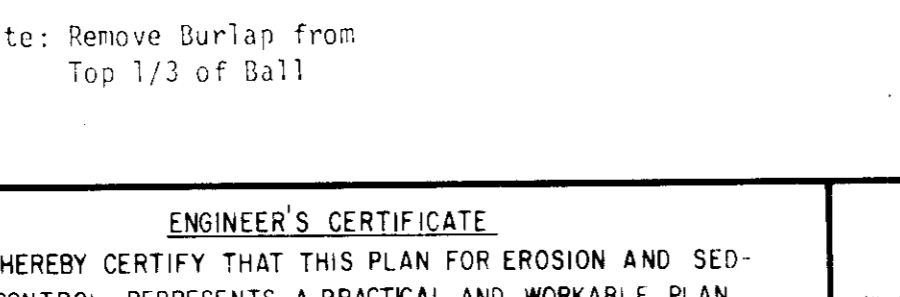
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**INLET PROTECTION DETAIL**  
NOT TO SCALE



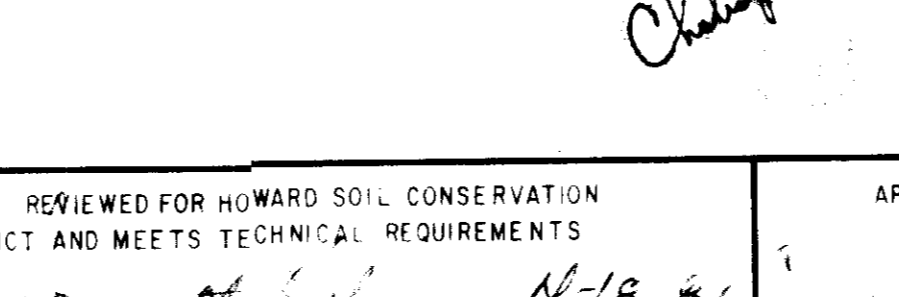
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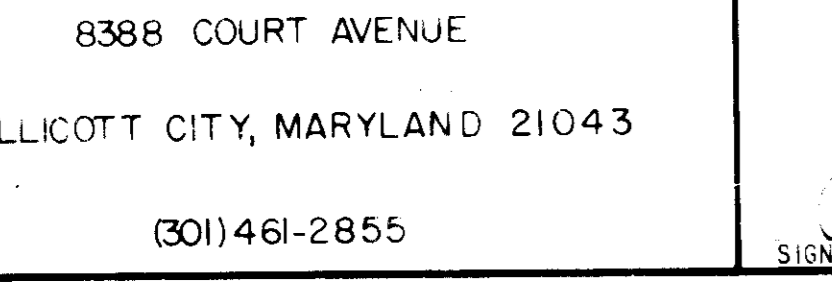
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NOT TO SCALE



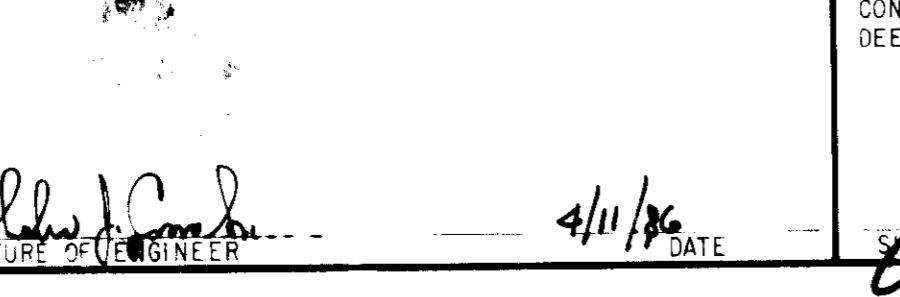
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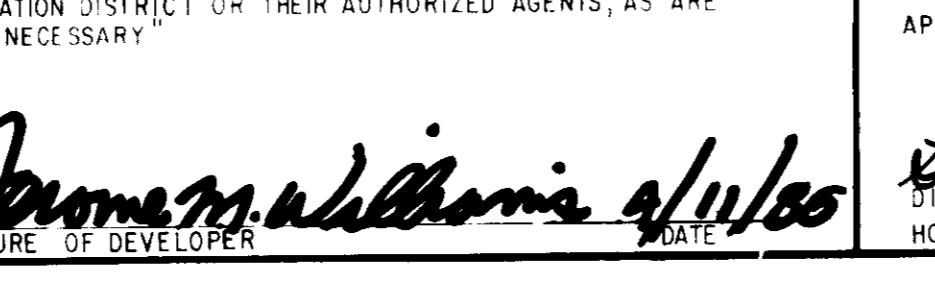
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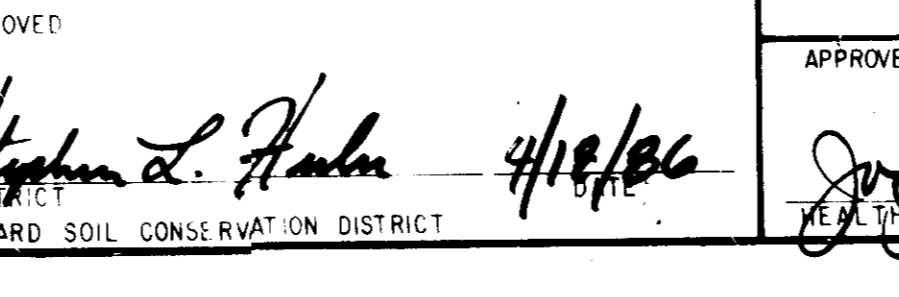
**CONCRETE SIDEWALK**  
NOT TO SCALE



**TYPICAL TREE PLANTING**  
NOT TO SCALE



**INLET PROTECTION DETAIL**  
NOT TO SCALE



**INLET PROTECTION DETAIL**  
NOT TO SCALE

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: 4-2-86  
M. J. HARRIS

**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: [Signature]  
DATE: 4/1/86

**DEVELOPER'S CERTIFICATE**  
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Signature: [Signature]  
DATE: 4/1/86

**REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS**  
Signature: [Signature]  
DATE: 4-18-86  
U.S. SOIL CONSERVATION SERVICE

**APPROVED: OFFICE OF PLANNING AND ZONING**  
Signature: [Signature]  
DATE: 4-24-86  
PLANNING DIRECTOR

**APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.**  
Signature: [Signature]  
DATE: 4-2-86  
DIRECTOR, PUBLIC WORKS

**NOTES / DETAIL**  
COLUMBIA E.G.U. SUBDIVISION  
SECTION 2, AREA 3  
PARCEL P-2  
8TH ELECTION DISTRICT, HOWARD COUNTY, MD.  
SCALE AS SHOWN DATE NOVEMBER 22, 1985  
REVISED APRIL 7, 1986  
SHEET 2 OF 5

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
(301) 461-2855

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**NOTES / DETAIL**  
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SHEET 2 OF 5

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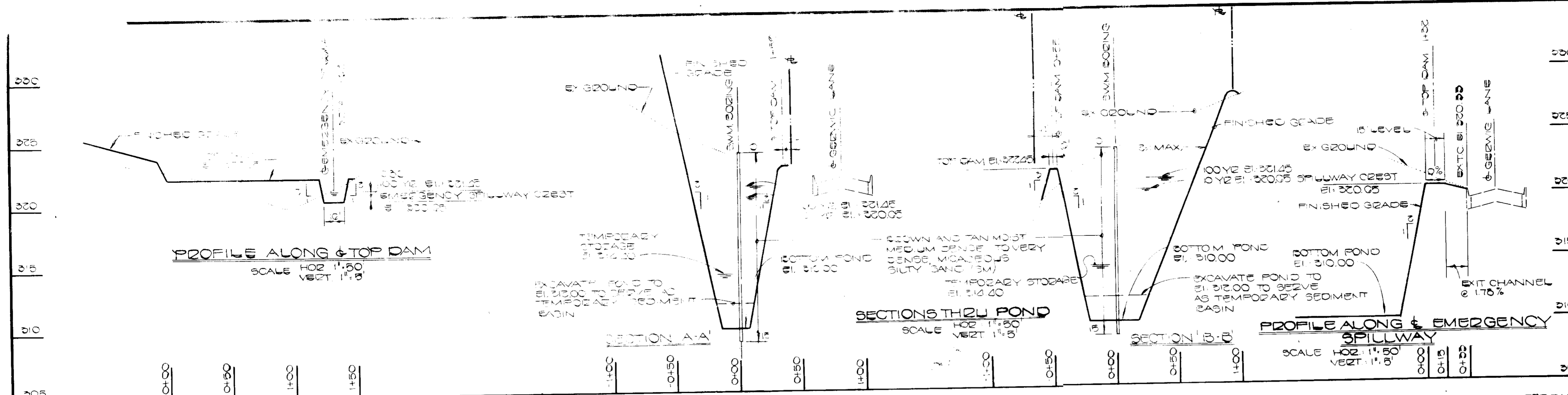
**DEVELOPER'S CERTIFICATE**  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
Signature: [Signature]  
DATE: 4/1/86

**REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS**  
Signature: [Signature]  
DATE: 4-18-86  
U.S. SOIL CONSERVATION SERVICE

**APPROVED: OFFICE OF PLANNING AND ZONING**  
Signature: [Signature]  
DATE: 4-24-86  
PLANNING DIRECTOR

**APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.**  
Signature: [Signature]  
DATE: 4-2-86  
DIRECTOR, PUBLIC WORKS

**NOTES / DETAIL**  
COLUMBIA E.G.U. SUBDIVISION  
SECTION 2, AREA 3  
PARCEL P-2  
8TH ELECTION DISTRICT, HOWARD COUNTY, MD.  
SCALE AS SHOWN DATE NOVEMBER 22, 1985  
REVISED APRIL 7, 1986  
SHEET 2 OF 5



**Schedule**  
The construction of all infiltration basins shall comply with the criteria set forth in the Maryland SCS Standards and Specifications... dated July, 1981 or subsequent revisions and the additional criteria provided below.

**Excavation**  
Initial basin excavation should be carried to within 1 foot of the final elevation of the basin floor. Final excavation to the final grade should be deferred until all disturbed areas on the watershed have been stabilized or protected. The final phase excavation should remove all accumulated sediment. Relatively light tracked equipment is recommended for this operation to avoid compaction of the basin floor. After the final grading is completed, the basin floor should be deeply tilled by means of rotary tillers or disc harrows to provide a well-aerated, highly porous surface texture.

**Lining Material**  
Infiltration basins may be lined with a 6- to 12-inch layer of filter material such as coarse sand to help prevent the buildup of impervious deposits on the soil surface. The filter layer can be replaced or cleaned when it becomes clogged. When a 6-inch layer of coarse organic material is specified for dicing (such as hulls, leaves, stems, etc.) or spading into the basin floor to increase the permeability of the soil, the basin floor should be soaked or inundated for a brief period, then allowed to dry subsequent to this operation. This induces the organic material to decay rapidly, loosening the upper soil layer.

**Establishing dense vegetation on the basin side slopes and floor is recommended.** A dense vegetative stand will not only prevent erosion and sloughing, but will also provide a natural means of maintaining relatively high infiltration rates. Erosion protection of inflow points to the basin shall also be provided. Removal of accumulated sediment is a problem only at the basin floor. Little maintenance is normally required to maintain the infiltration capacity of slope areas.

**Selection of suitable vegetative materials for the side slope and all other areas to be stabilized with vegetation and application of required fertilizer and mulches shall be done in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control.** Local Extension Agencies should also be consulted.

**Maintenance**

**Inspection Schedule**  
Drainage systems must be inspected on a routine basis to ensure that they are functioning properly. Inspections can be on a semiannual basis but should always be conducted following major storms.

**Sediment Control Effect on Vegetated Basins**  
Cleanout frequency of infiltration basins will depend on whether they are vegetated or nonvegetated and will be a function of their storage capacity, recharge characteristics, volume of inflow, and sediment load. Infiltration basins should be inspected at least once a year. Sedimentation basins and traps may require more frequent inspection and cleanout.

**Grass bottoms on infiltration basins seldom need replacement** since grass serves as a good filter material. This is particularly true of Kentucky 31 Tall Fescue, which is extremely hardy and can withstand several days of submergence. If silt water is allowed to trickle through the turf, most of the suspended material is strained out within a few yards of surface travel. Well established turf on a basin floor will grow up through sediment deposits, forming a porous mat and preventing the formation of an impervious layer. Grass filtration would work well with long, narrow, shoulder-type (swales, ditches, etc.) depressions where highway runoff flows down a grassy slope and into the roadway and the basin. Kentucky 31 Tall Fescue demands very little attention and looks attractive when trimmed. Grass planted on basin side slopes will also prevent erosion.

**Sediment Removal From Nonvegetated Basin**

(a) **Technique.** Remove sediment only when the basin floor is completely dry, after the silt layer has mud-cracked and separated from the basin floor. Equipment maneuverability and precise blade control are essential in small areas and can greatly reduce the quantity of material to be removed.

(b) **Frequency.** All sediment must be removed prior to tilling operations. An tilling is required periodically and at least once annually, the frequency of sediment removal will be reduced to small operations on a regular basis.

**Tilling of Nonvegetated Basin Floor**

In all cases, tilling must be preceded by thorough removal of surface sediment as previously above.

(a) **Purpose.** It is necessary to restore the natural infiltration capacity by overcoming the effects of surface compaction, and to control weed growth on the basin floor.

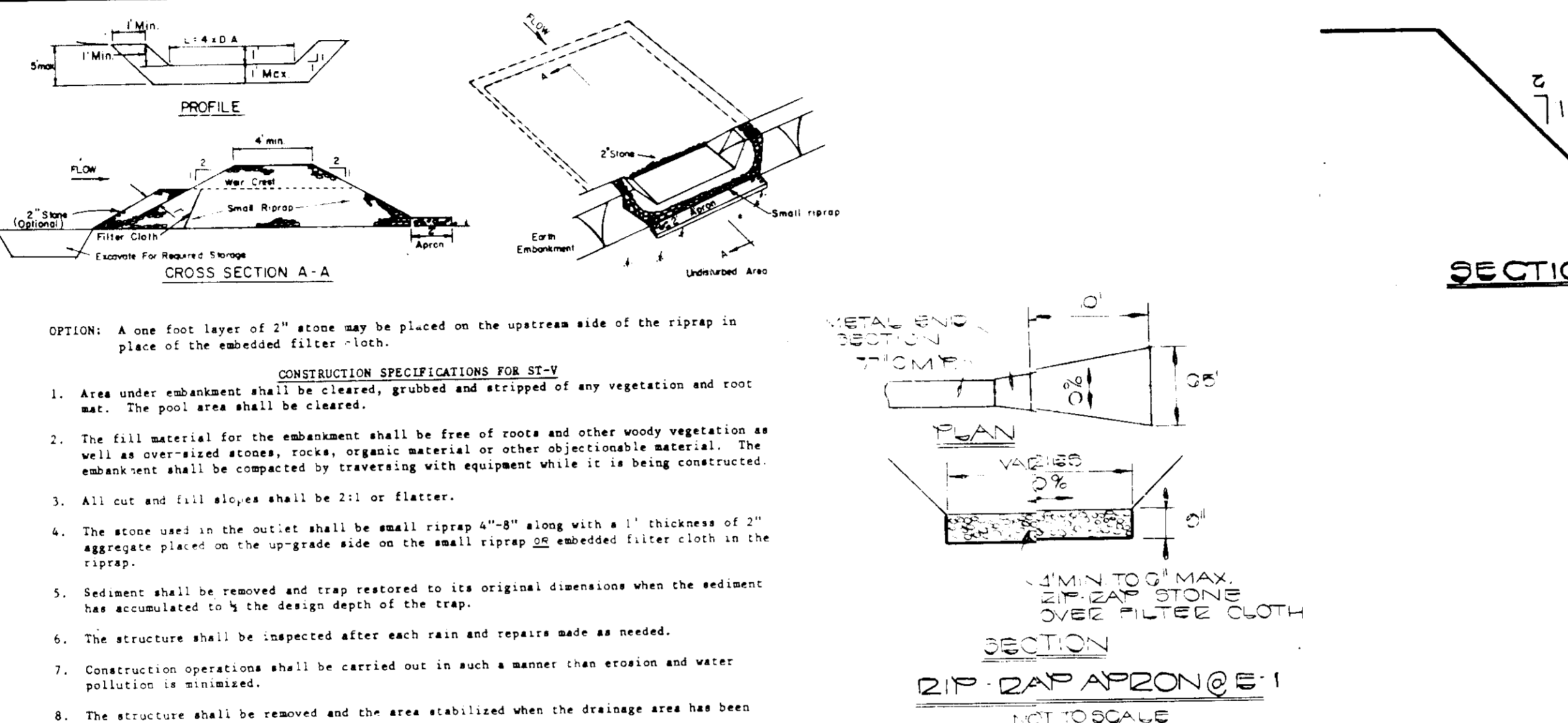
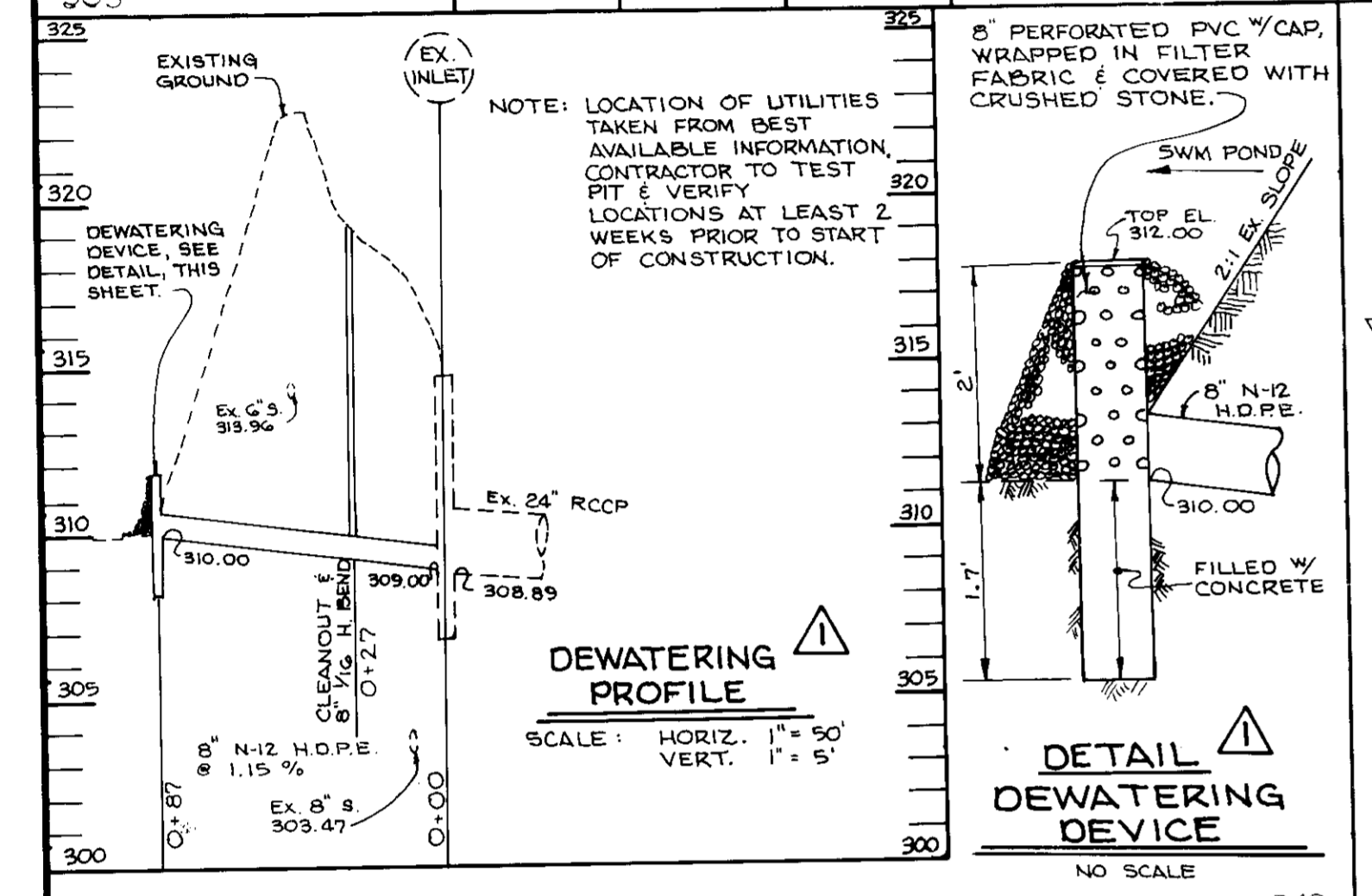
(b) **Technique.** Rotary tillers or disc harrows will normally serve this purpose. Light tractors should be employed for these operations. In the event that heavy equipment has caused deeper than normal compaction of the surface, these operations should be preceded by deep plowing. In its final condition after tilling, the basin floor should be level, smooth, and free of ridges and furrows to ease future removal of sediment and minimize the material to be removed during future cleaning operations. A leveling drag, towed behind the equipment on the last pass, will accomplish this.

(c) **Frequency.** In the spring, the basin surface is usually quite porous due to the effects of frost and subsequent thawing. The infiltration capacity diminishes rapidly thereafter. To enhance infiltration capacity, tilling should be thorough once each season, from late June through September. To control vegetative growth, an additional light tillage may be advisable during the growing season. Precautions must be observed, however, to avoid any possibility of working sediment accumulations into the basin floor as a part of light cultivation for the purpose of weed control. It is therefore stressed again that any cultivation or tilling operation be preceded in all cases by careful sediment removal.

**Side Slope Maintenance**

(a) **Purpose.** To promote a dense turf with extensive root growth, thereby enhancing infiltration through the slope surface and prevent weeds from gradually taking over the slope areas.

(b) **Frequency.** Grasses of the fescue family are recommended for seeding primarily due to their adaptability to dry sandy soils, drought resistance, hardiness, and ability to withstand brief inundations. The use of fescues will also permit long intervals between mowings. This is important due to the relatively steep slopes which make mowing difficult. Mowing twice a year, once in June and again in September, is generally satisfactory. Refertilization with 10-6-4 ratio fertilizer at a rate of 500 lb per acre (11 lb per 1000 sq ft) may be required the second year after seeding.



**STRUCTURE SCHEDULE**

NO.	TYPE	TOP ELEV.	INV. IN.	INV. OUT.	REMARKS
1-1	A-5	327.63	--	318.42	50 4.01
1-2	A-10	329.83	--	320.96	50 4.02
1-3	A-5	331.83	--	323.01	50 4.01
1-4	Double T-5	339.23	332.12	332.07	50 4.34
MH-1	Comp. Std.	322.10	313.06	312.73	6 5.01
MH-2	Std.	326.00	318.11	317.03	6 5.01
MH-3	Shallow	326.00	320.86	320.53	6 5.05
MH-4	Shallow	326.20	320.61	321.49	6 5.05
MH-5	Special	337.75	331.24	330.44	**
E-1	Metal End Section	312.32	--	310.09	50 5.61

\* ALL DETAILS REFER TO HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION  
\*\* EXISTING INLET TO BE CONVERTED TO MANHOLE. SALVAGE CONCRETE HEADPIECE AND GRATE, IF POSSIBLE; RELOCATE TO INLET 1-4. PROVIDE MANHOLE FRAME AND COVER TO FINISHED GRADE.

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: 4-2-86

**OWNER/DEVELOPER**  
**WILLIAMS PROPERTIES**  
JEROME M. WILLIAMS  
1866 IRBURN ROAD, COLUMBIA, MARYLAND 21045  
PHONE: (301) 967-7768

**ENGINEER'S CERTIFICATE**  
FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043  
(301) 461-2855

**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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

**REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS**  
DATE: 4-18-86  
U.S. SOIL CONSERVATION SERVICE

**APPROVED OFFICE OF PLANNING AND ZONING**  
DATE: 4-24-86  
PLANNING DIRECTOR: John W. MacEachron  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

**APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS**  
DATE: 4-21-86  
DIRECTOR, PUBLIC WORKS: [Signature]  
CHIEF, BUREAU OF ENGINEERING: [Signature]

**APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS**  
DATE: 4-24-86  
OFFICE: [Signature]

**NOTES / DETAIL**  
**COLUMBIA E.G.U. SUBDIVISION**  
SECTION 2 AREA 2  
SCALE AS SHOWN DATE: NOVEMBER 20, 1985  
REVISED APRIL 7, 1986  
SHEET 2 OF 5  
SDP 80-124

**PERMANENT SEEDING NOTES:**  
 AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
 SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.  
 SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 200 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF KEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.  
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.  
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.  
 SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.  
 SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.  
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 BUSHEL PER ACRE OF ANNUAL RYE (3 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.  
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED 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.

**SEDIMENT CONTROL NOTES:**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMANENT SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) AND (SEC. 54). TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**  
 TOTAL AREA OF SITE: 4.269 ACRES  
 AREA TO BE ROOFED OR PAVED: 4.19 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED: .079 ACRES  
 TOTAL CUT: 2400 CU. YDS.  
 TOTAL FILL: 2400 CU. YDS.  
 OFFSITE WASTE/BORROW AREA LOCATION: [Blank]  
 ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR LESSES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.



**TEMPORARY STORM WATER MANAGEMENT DESIGN DATA BASIN #1**

- DRAINAGE AREA: 2.27 AC.±
- TYPE OF TRAP: STONE OUTLET
- LENGTH OF WEIR CREST: 9'
- VOLUME REQUIRED: 152 C.Y.
- VOLUME PROVIDED: 155 C.Y.
- TRAP SIZE: 100"x16" (BOTTOM DIMENSIONS)
- TRAP DEPTH: 2'
- CREST EL. OF WEIR: 320.00
- 10 YEAR STORM STORAGE EL.: 320.00
- BOTTOM EL.: 319.00
- CLEANOUT EL.: 319.00

**TEMPORARY STORM WATER MANAGEMENT BASIN NO. 2**

**HIDDEN ROCK TRIBE**  
 E.G. SUBDIVISION  
 SECTION 2 AREA B  
 PARCELS 2  
 P.B. 87 P.03  
 LONED INT/IND

**TEMPORARY SEDIMENT BASIN NO. 1 TO BE CONVERTED TO PERMANENT STORM WATER MANAGEMENT INFILTRATION POND. EXCAVATE TO EL. 312.00 FOR TEMPORARY BASIN**

**TEMPORARY STORM WATER MANAGEMENT DESIGN DATA BASIN #1**

- DRAINAGE AREA: 1.92 AC.±
- TYPE OF TRAP: SEDIMENT BASIN
- LENGTH OF WEIR CREST: 8'
- VOLUME REQUIRED: 123 C.Y.
- VOLUME PROVIDED: 1189 C.Y.
- TRAP SIZE: 34" x 46" (BOTTOM DIMENSIONS)
- TRAP DEPTH: 8.00' (AVAILABLE DEPTH)
- CREST EL. OF WEIR: 320.65
- 10 YEAR STORM STORAGE EL.: 319.40
- BOTTOM EL.: 312.00
- CLEANOUT EL.: 312.00

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
 DATE: 4-2-86  
 [Signature]

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043  
 (301) 461-2855

**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 COUNTY SOIL CONSERVATION DISTRICT.

[Signature]  
 PROFESSIONAL ENGINEER

**DEVELOPER'S CERTIFICATE**  
 "I 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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

[Signature]  
 DATE: 4/11/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

[Signature]  
 DATE: 4-18-86  
 U.S. SOIL CONSERVATION SERVICE

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

APPROVED:

[Signature]  
 DATE: 4/18/86  
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

[Signature]  
 DATE: 4-27-86  
 PLANNING DIRECTOR

[Signature]  
 DATE: 4-24-86  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

[Signature]  
 DATE: 4-24-86  
 HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

[Signature]  
 DATE: 4-12-86  
 DIRECTOR, PUBLIC WORKS

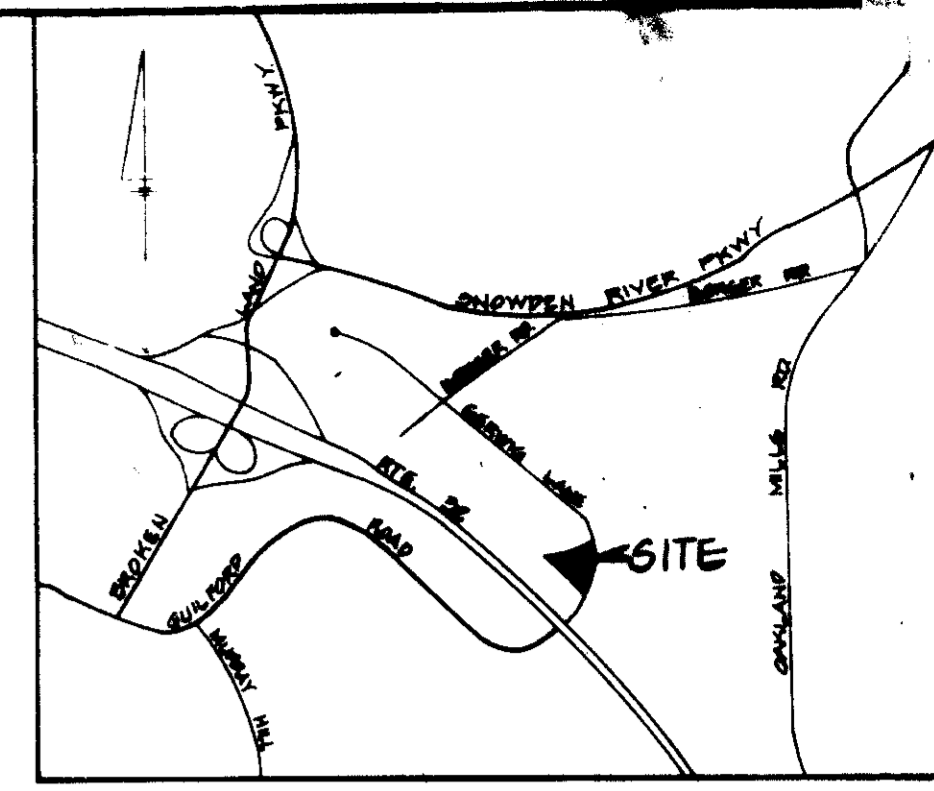
[Signature]  
 DATE: [Blank]  
 CHIEF, BUREAU OF ENGINEERING

SUBDIVISION	SECTION/AREA	PARCEL				
E.G. SUBDIVISION	2/3	F-2				
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	SEWER CODE	CENSUS TR.
6710D	10	10	10	6TH	000100	000100
WATER CODE	SEWER CODE					
6 00	000400					

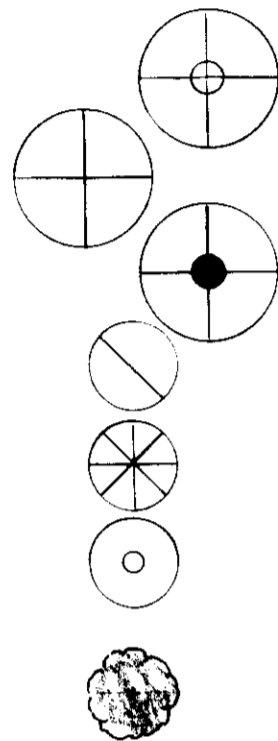
**SEDIMENT CONTROL PLAN**  
 E.G. SUBDIVISION  
 SECTION 2 AREA B  
 PARCEL F-2

SELECTION DISTRICT HOWARD COUNTY, MD  
 SCALE: 1"=50'  
 DATE: NOVEMBER 20, 1985  
 REVISED: APRIL 7, 1986  
 SHEET 4 OF 5

**WILLIAMS PROPERTIES**  
 JEROME M. WILLIAMS  
 888 DOBBIN ROAD COLUMBIA, MARYLAND 21046  
 PHONE: (301) 997-1790



VICINITY MAP  
SCALE 1"=2000'



- LANDSCAPE LEGEND:
- 14- ACER RUBRUM  
RED MAPLE 2 1/2"-3" CAL(MIN.) 12'-14' MIN. HT.
  - 15- ACER SACCHARUM  
SUGAR MAPLE 2 1/2"-3" CAL(MIN.) 12'-14' MIN. HT.
  - 19- TILIA CORDATA  
LITTLE LEAF LINDEN 2 1/2"-3" CAL(MIN.) 12'-14' MIN. HT.
  - 19- PYRUS CALLERYANA 'BRADFORD'  
BRADFORD PEAR 2 1/2"-3" CAL(MIN.) 8'-10' MIN. HT.
  - 76- PINUS NIGRA  
AUSTRIAN PINE 2"-2 1/2" CAL(MIN.) 6'-8' MIN. HT.
  - 16- PRUNUS SERRULATA KWANZAN  
KWANZAN CHERRY 2 1/2"-3" CAL(MIN.) 8-10' MIN. HT.
- EXISTING TREES TO BE RETAINED

EDUARDO ST JOHN  
582/0372

EDUARDO ST JOHN  
582/0372

HIDDEN ROCK TRIBE  
1252/0364

HIDDEN ROCK TRIBE  
1252/0364

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 4-2-86



**WILLIAMS**  
PROPERTIES  
JEROME M. WILLIAMS  
8888 DOBBIN ROAD COLUMBIA, MARYLAND 21044  
PHONE (301) 987-7146

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043  
(301) 461-2855

**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.

*Chad J. Smith*  
SIGNATURE OF ENGINEER  
4/1/86  
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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*Jerome M. Williams*  
SIGNATURE OF DEVELOPER  
4/1/86  
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Wilson*  
U.S. SOIL CONSERVATION SERVICE  
4-18-86  
DATE

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

*Stalin L. Huh*  
DISTRICT  
4/18/86  
DATE

APPROVED OFFICE OF PLANNING AND ZONING

*Shirley L. Harris*  
PLANNING DIRECTOR  
4-24-86  
DATE

*John W. Muschler*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
4-24-86  
DATE

APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS

*James B. ...*  
HEALTH OFFICER  
4-24-86  
DATE

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

*William ...*  
DIRECTOR, PUBLIC WORKS  
4-22-86  
DATE

*William ...*  
CHIEF, BUREAU OF ENGINEERING  
4-22-86  
DATE

SUBDIVISION	SECTION/AREA	PARCEL
EGU SUBDIVISION	2/3	F-2
PLAT NO. 27102	BLOCK NO. 10	TAX ZONE 2C
WATER CODE 6-00	ELEC. DIST. G-7	CENSUS TR. 5001.00
	SEWER CODE	5000400

**LANDSCAPE PLAN**  
COLUMBIA  
E.G.U. SUBDIVISION  
SECTION 2 AREA 3  
PARCEL F-2

8TH ELECTION DISTRICT HOWARD COUNTY, MD  
SCALE 1"=50'  
DATE NOVEMBER 20, 1985  
REVISED APRIL 7, 1986  
SHEET 5 OF 5