

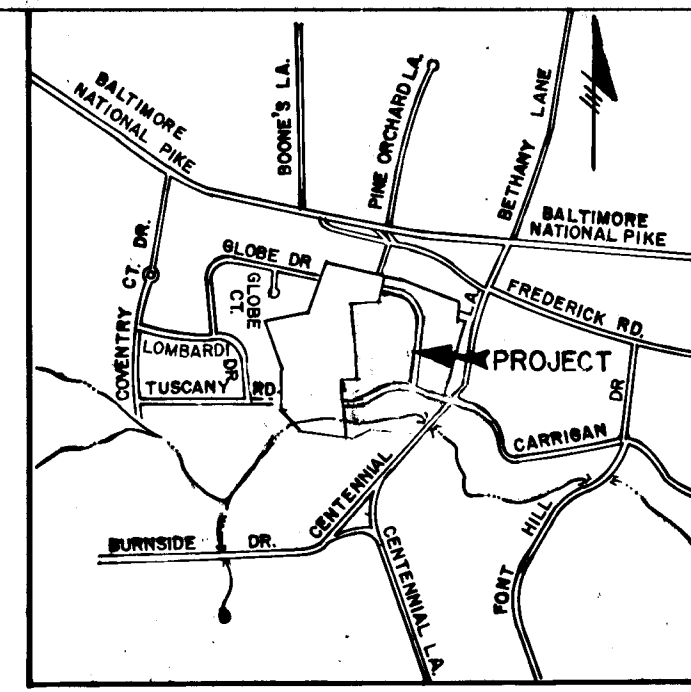
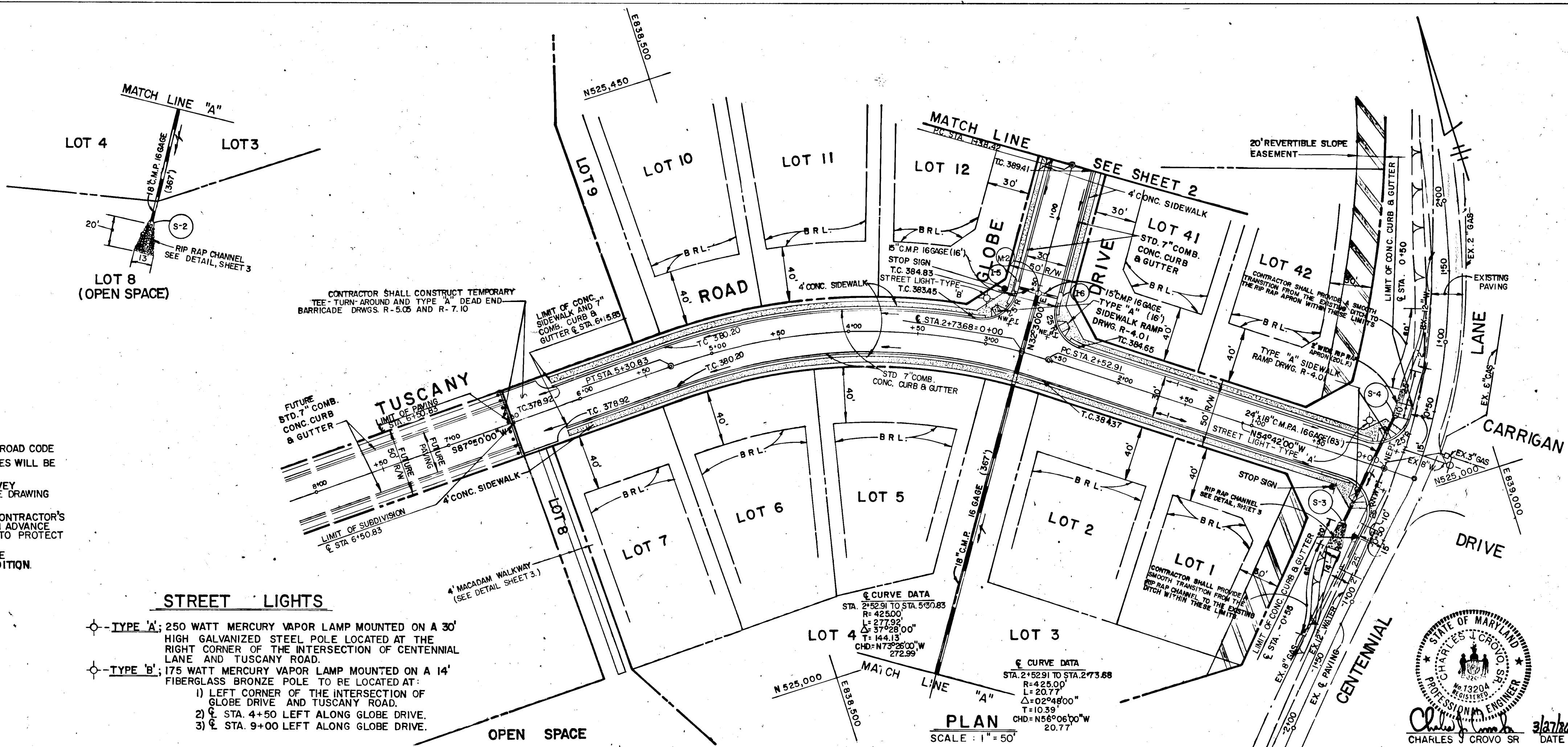
REGISTERED PROFESSIONAL ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION FOR EROSION AND SEDIMENT CONTROL WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 CHARLES J. GROVO SR. 3/27/86

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION FOR EROSION AND SEDIMENT CONTROL WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Gordon Greenspun 3/27/86

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Stephen J. Fisher 6-25-86
 APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Stephen J. Fisher 6/25/86

- GENERAL NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS. IN ADVANCE OF ANY CONSTRUCTION.
 - STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
 - ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 5 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

APPROVED DEPARTMENT OF PUBLIC WORKS
 APPROVED OFFICE OF PLANNING AND ZONING
 DATE 6-25-86



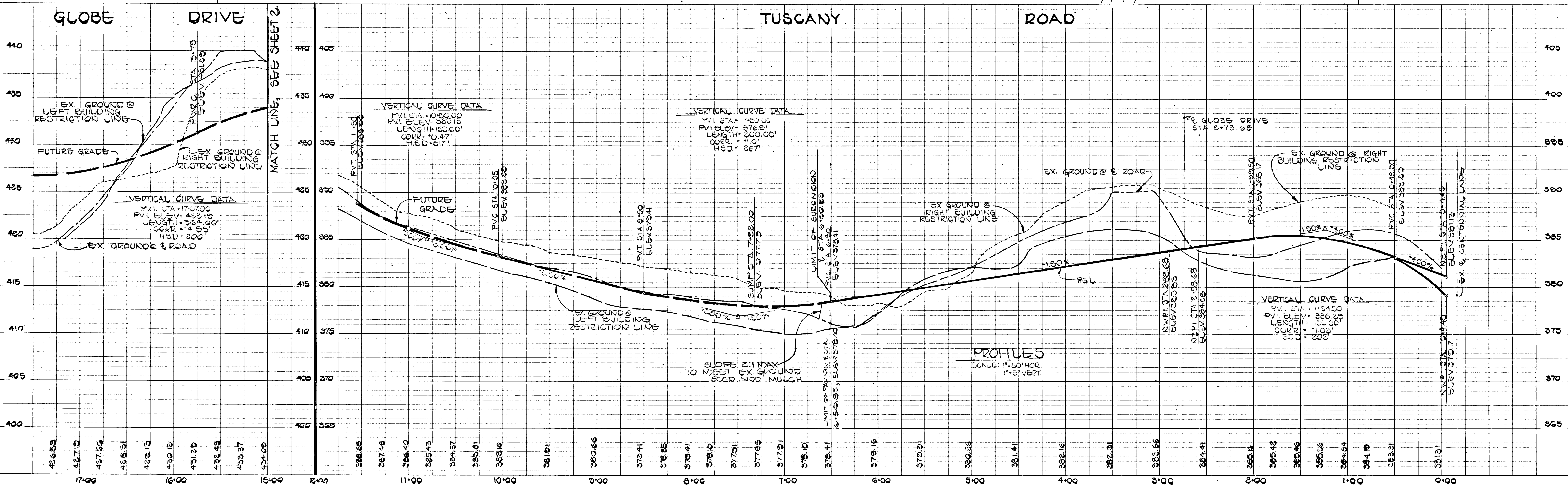
BENCH MARKS

BM #1	ELEV. 414.33
+ CUT ON RIM OF SANITARY MANHOLE #3033	
BM #2	ELEV. 376.25
+ CUT ON RIM OF SANITARY MANHOLE #3030	

(SEE SHEET 5 FOR LOCATIONS.)

THE FAIRWAYS
 SECTION ONE AREA ONE
 LOTS 1-42
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
TUSCANY ROAD
 PLAN & PROFILE
 OWNER AND DEVELOPER
 FONT HILL GOLF CLUB, INC.
 CO. GORDON GREENSPUN SUITE 275
 COMMERCENTRE EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE, MARYLAND 21208
 SCALE AS SHOWN 1/4" = 1' MARCH 17, 1986 DWG. NO. 1 OF 5
 DES. R.C. SHUMAKER DRN. D. NEWTON CHK. C. GROVO
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21103

- STREET LIGHTS**
- TYPE 'A': 250 WATT MERCURY VAPOR LAMP MOUNTED ON A 30' HIGH GALVANIZED STEEL POLE LOCATED AT THE RIGHT CORNER OF THE INTERSECTION OF CENTENNIAL LANE AND TUSCANY ROAD.
 - TYPE 'B': 175 WATT MERCURY VAPOR LAMP MOUNTED ON A 14' FIBERGLASS BRONZE POLE TO BE LOCATED AT:
 - LEFT CORNER OF THE INTERSECTION OF GLOBE DRIVE AND TUSCANY ROAD.
 - STA. 4+50 LEFT ALONG GLOBE DRIVE.
 - STA. 9+00 LEFT ALONG GLOBE DRIVE.

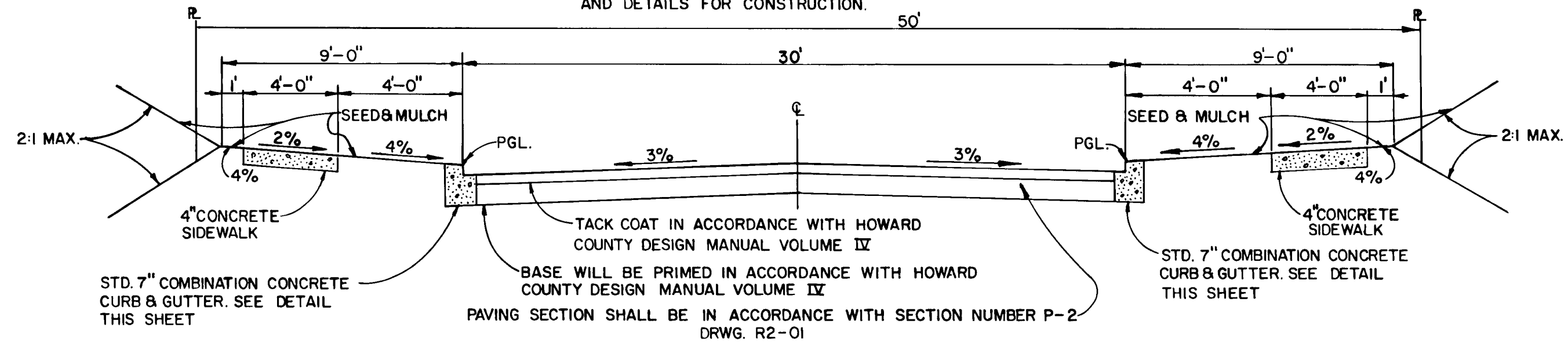


DATE
 BY
 SURVEYED
 PLOTTED
 CHECKED
 NOTE BOOK NO.

DATE
 BY
 SURVEYED
 PLOTTED
 CHECKED
 STRUCTURE NOTATIONS CHECKED

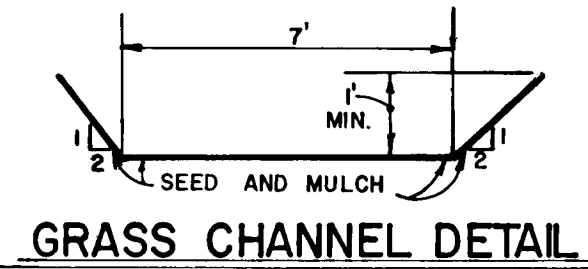
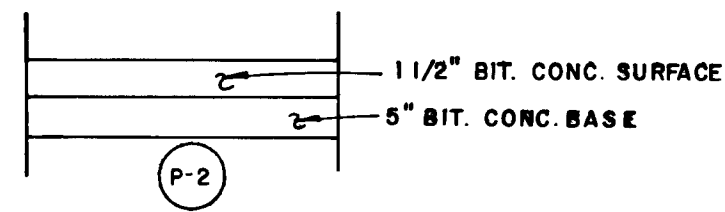
TYPICAL ROADWAY SECTION

ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.

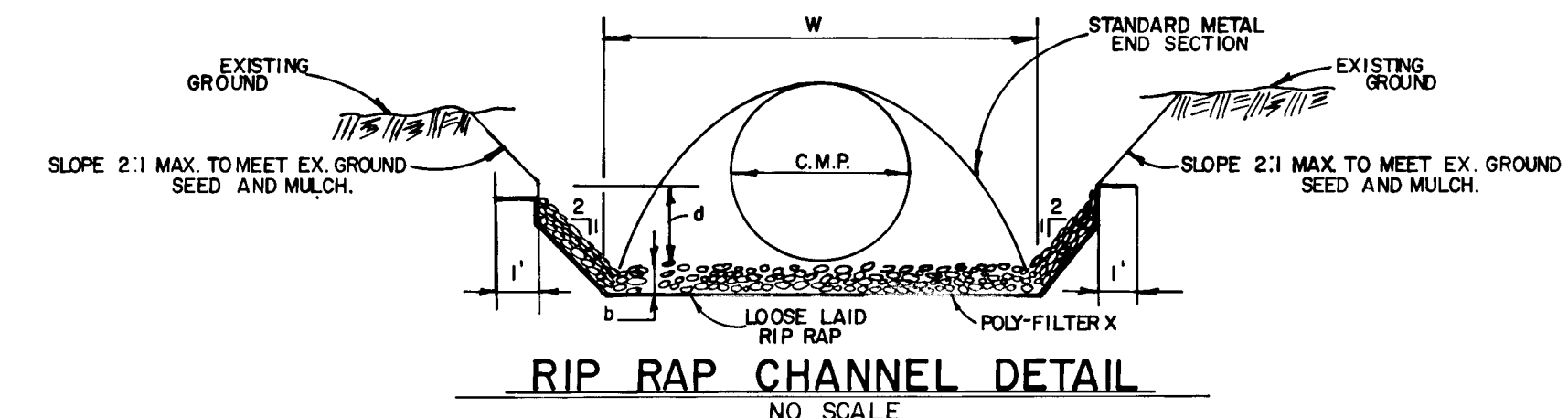


PAVING SECTION

P-2
NO SCALE



GRASS CHANNEL DETAIL
NO SCALE



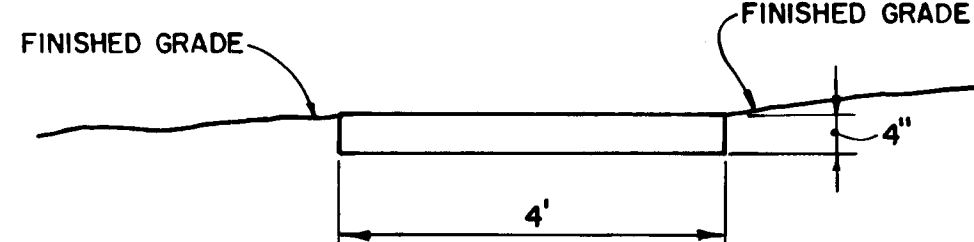
RIP RAP CHANNEL DETAIL
NO SCALE

RIP RAP CHANNEL DESIGN DATA

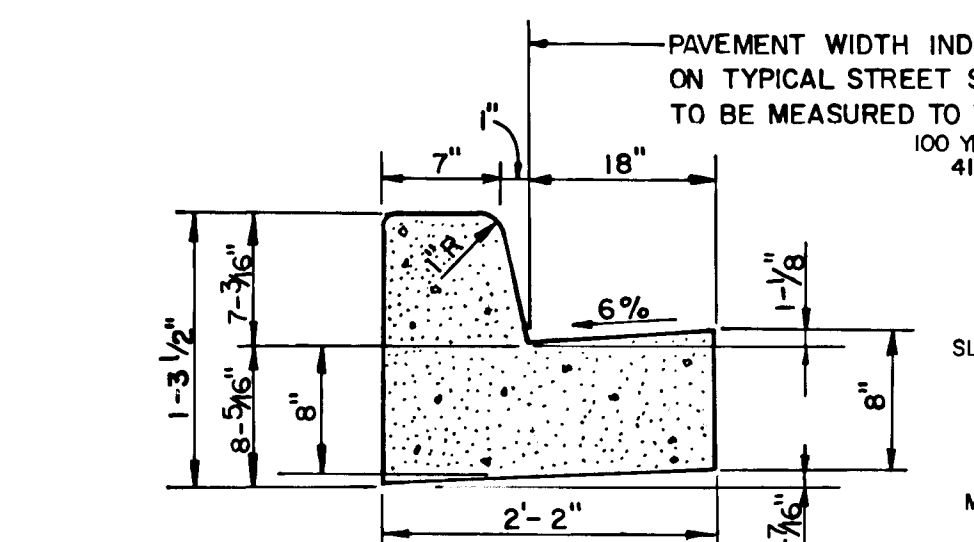
Struct	A ⁰	P ¹	R	R2/3	S	S1/2	n	Q	V	d	w	Rip Rap Size	b
S-1	8.46	11.25	.7512	.8255	1.00%	.100	.04	25.94 c.f.s.	3.07 f.p.s.	.95	7'	6" 9"	14"
S-2	2.88	6.83	.4218	.5608	1.00%	.100	.04	5.99 c.f.s.	2.08 f.p.s.	.52	4.5'	6" 9"	14"
S-3	2.80	7.85	.3570	.5015	4.40%	.2098	.04	10.95 c.f.s.	3.91 f.p.s.	.41	6'	6" 9"	14"

GRASS CHANNEL DESIGN DATA

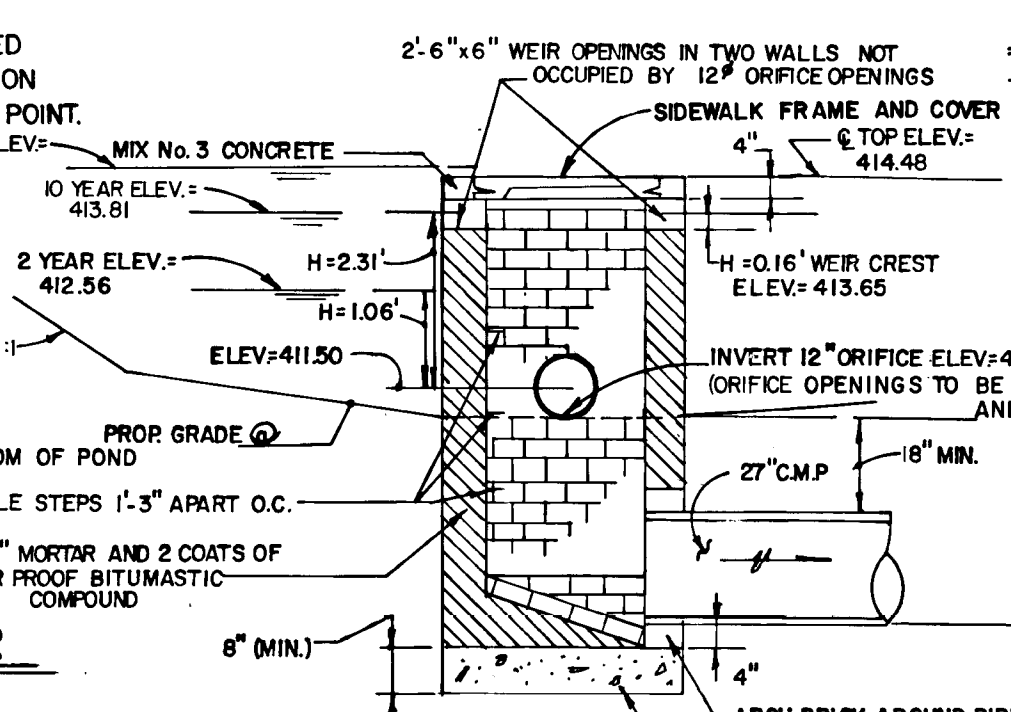
Struct	A ⁰	P ¹	R	R2/3	S	S1/2	n	Q	V	d
S-1	6.88	10.98	.65	.7493	1.00%	.100	.03	25.53 c.f.s.	3.70 f.p.s.	.80



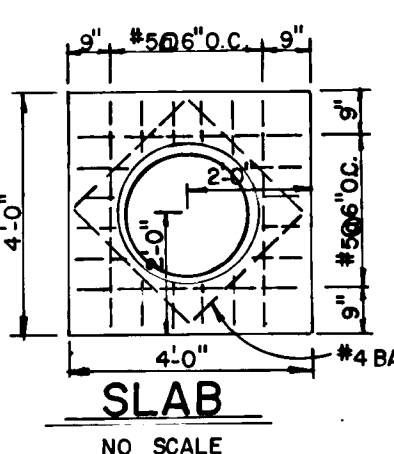
MACADAM WALKWAY DETAIL
NO SCALE



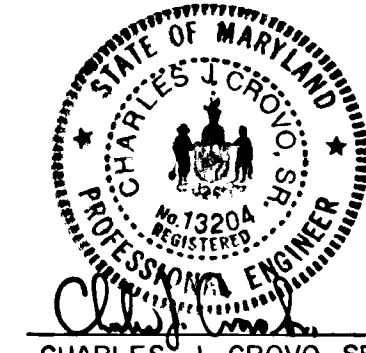
STANDARD 7" COMB. CONC. CURB & GUTTER
NO SCALE



INLET DETAIL FOR I-4 @ S.W.M. POND
NO SCALE



SLAB
NO SCALE



THE FAIRWAYS
SECTION ONE AREA ONE
LOTS 1-42
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

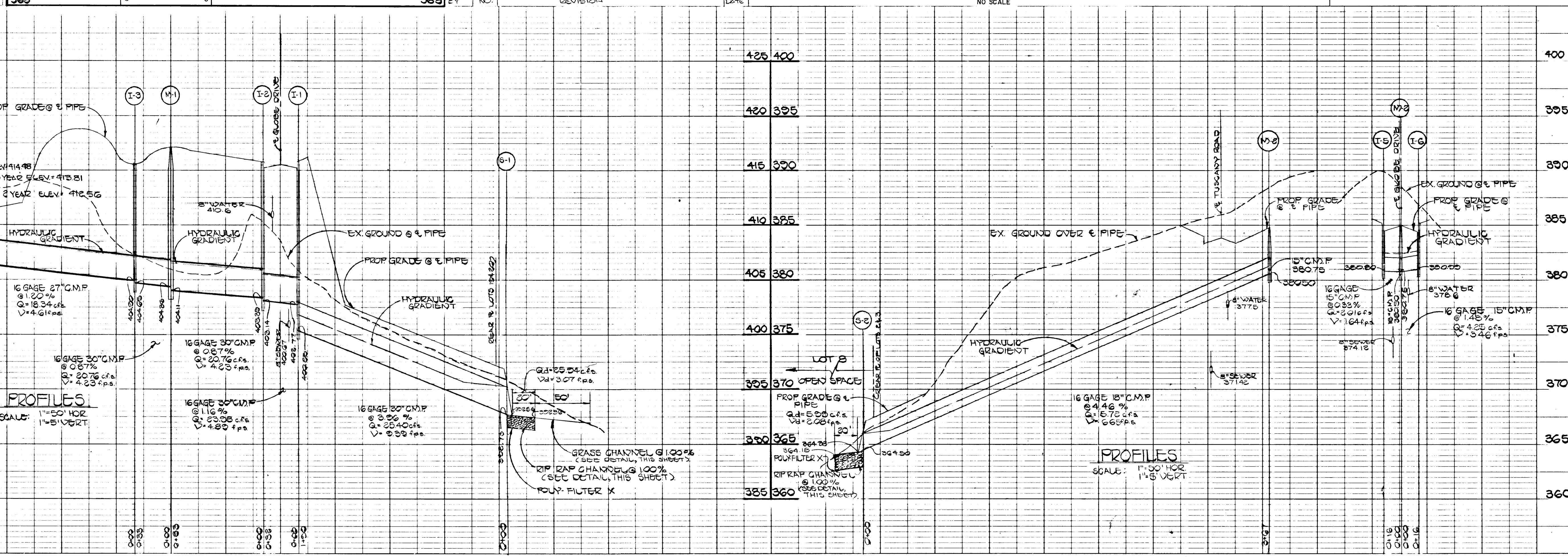
**ROAD SECTIONS, DETAILS
AND
STORM DRAINAGE PROFILES**

OWNER AND DEVELOPER
FONT HILL GOLF CLUB, INC.
C/O GORDON GREENSPAN, SUITE 275
COMMERCENTRE EAST
1777 RISTERTOWN ROAD
BALTIMORE, MARYLAND 21208

SCALE AS SHOWN DATE MARCH 17, 1986 DWG. NO. 3 OF 5
DES. D. VANDE RYT DRN. D. NEWTON CHK. C. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 211043

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	STA. LIMITS
TUSCANY ROAD	LOCAL	30 M.P.H.	R-20	0+00 TO 6+05.83
GLOBE DRIVE	LOCAL	30 M.P.H.	R-20	0+00 TO 11+22.00



DATE _____ BY _____
SURVEYED _____
PLOTTED _____
CHECKED _____
NOTE BOOK NO. _____

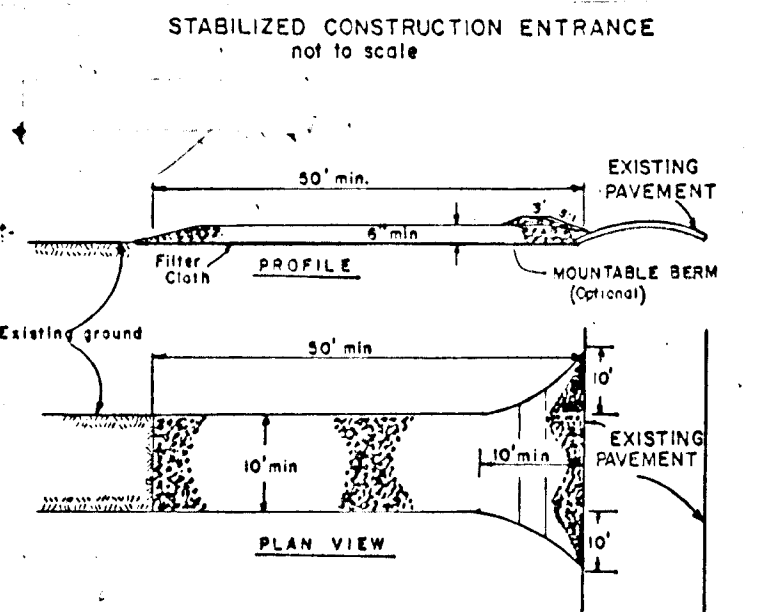
DATE _____ BY _____
SURVEYED _____
PLOTTED _____
CHECKED _____
NOTE BOOK NO. _____

APPROVED DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING
DATE 6-27-86

APPROVED OFFICE OF PLANNING AND ZONING
DATE 6-25-86

1221

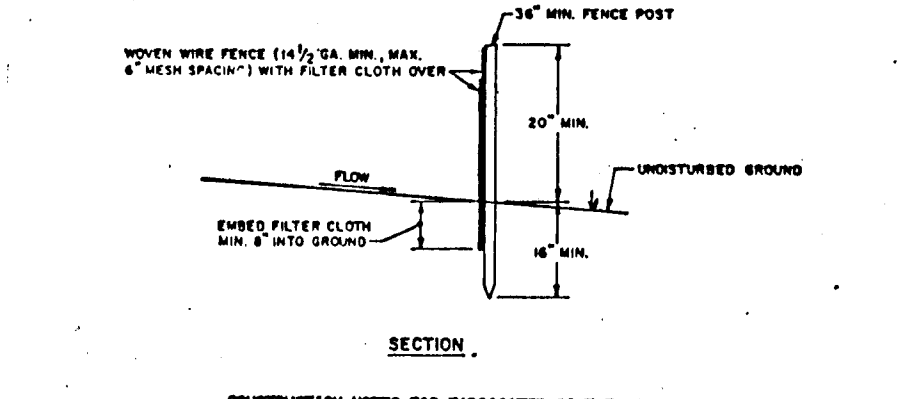
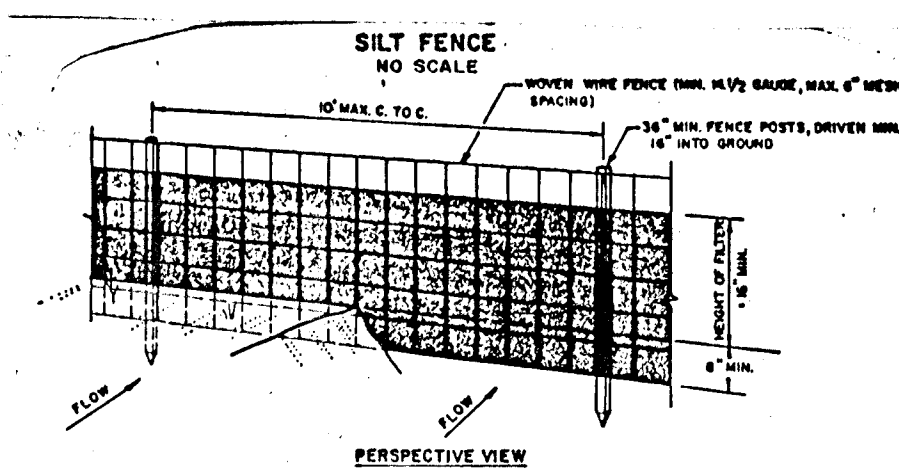
PERMANENT SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
 SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
 SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1) 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 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.).
 2) 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 THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 50 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 PER ACRE (1.5 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ.FT.) OF WEEPING LOVERGRASS. 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 SOD. 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 6 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.
TEMPORARY SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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.).
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 BUSHES PER ACRE OF ANNUAL RYE (1.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVERGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
 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, 6 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.



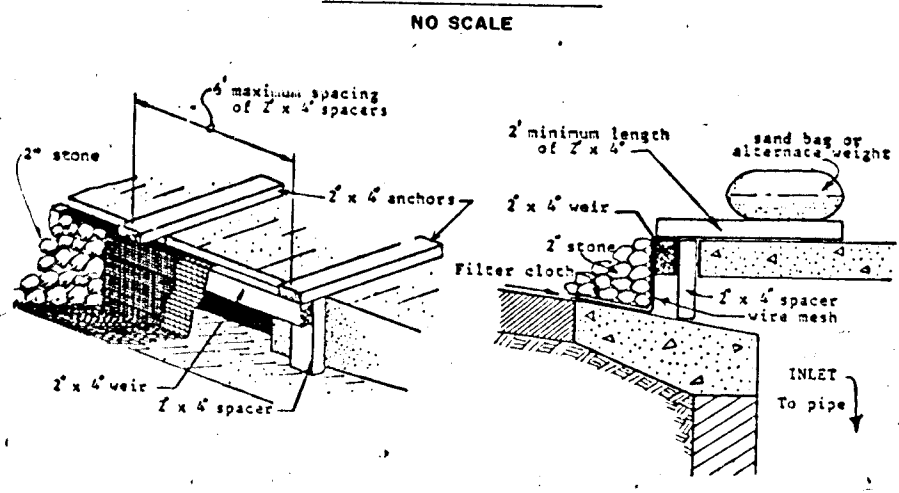
- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 3" stone, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 10 feet (except on a single roadway less than 10 feet wide, length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - The (6) foot minimum, but the entire area prior to grading of stone. Filter cloth will not be placed over the entire area prior to grading of stone. Filter cloth will not be placed over the entire area prior to grading of stone.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a removable berm with 5:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, scraped, washed or tracked onto public right-of-way must be removed immediately.
 - Washing - Berms shall be cleaned to remove sediment prior to entrance onto public right-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.

- SEDIMENT CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS 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 PERIMETER 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 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) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER SEEDING 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	23.8 ACRES
AREA DISTURBED	6.5 ACRES
AREA TO BE ROOFED OR PAVED	3.3 ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.2 ACRES
TOTAL CUT	CU. YDS.
TOTAL FILL	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

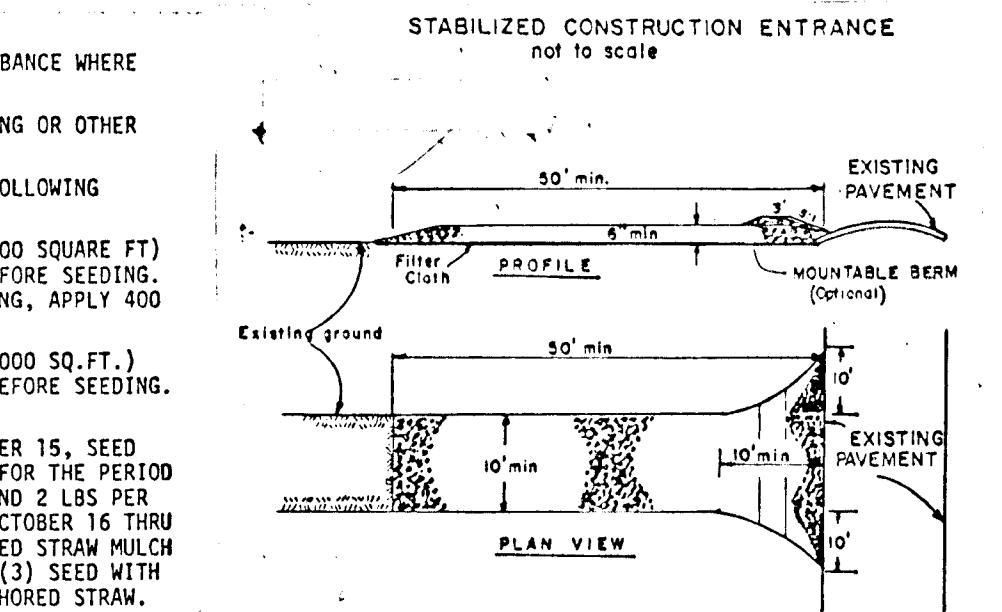


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:**
- WOODEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOODEN FENCE WITH TIES SPACED EVERY 4" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL OVERLAP BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN MULCH DEVELOPS IN THE SILT FENCE.



- Curb Detail Protection:**
- Attach a continuous piece of wire mesh (30" min. width by three lengths plus 4") to the 2" x 4" curb (measuring throat length plus 2") as shown on the standard drawing.
 - Place a piece of approved filter cloth (40-60 mesh) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" curb.
 - Securely nail the 2" x 4" curb to 8" long vertical spacers to be located between the curb and inlet face (min. 6" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" length of 2" x 4" on the top of the curb at each location). 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.
 - From the wire mesh and filter cloth on the concrete gutter and against the face of curb on both sides of the inlet. Place clean 3" 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.

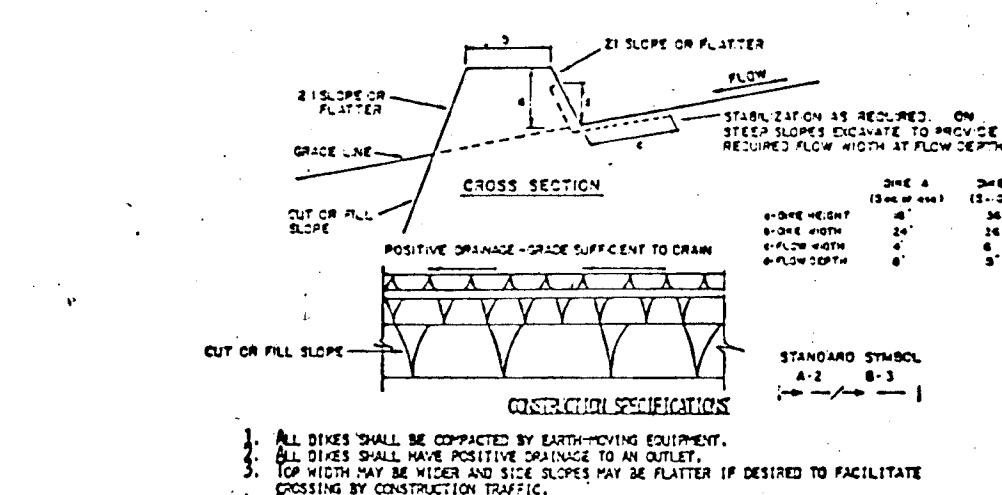
FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043



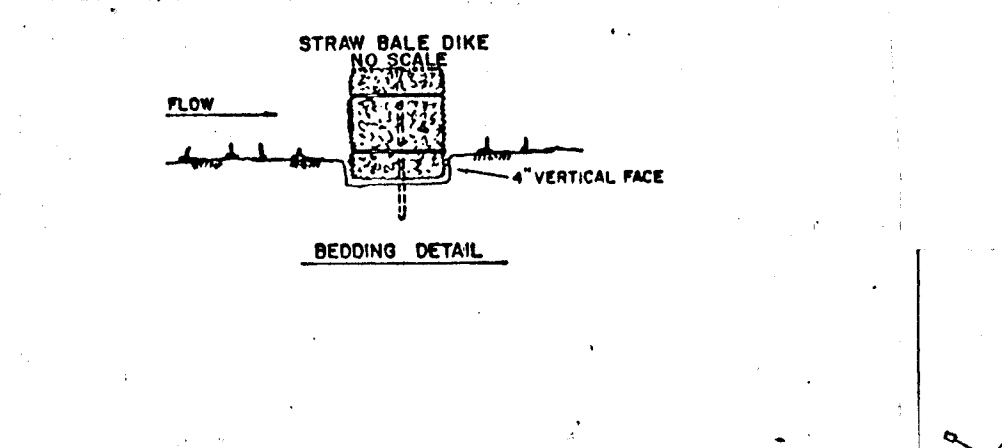
- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 3" stone, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 10 feet (except on a single roadway less than 10 feet wide, length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - The (6) foot minimum, but the entire area prior to grading of stone. Filter cloth will not be placed over the entire area prior to grading of stone. Filter cloth will not be placed over the entire area prior to grading of stone.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a removable berm with 5:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, scraped, washed or tracked onto public right-of-way must be removed immediately.
 - Washing - Berms shall be cleaned to remove sediment prior to entrance onto public right-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.

- SEDIMENT CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS 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 PERIMETER 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 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) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER SEEDING 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:

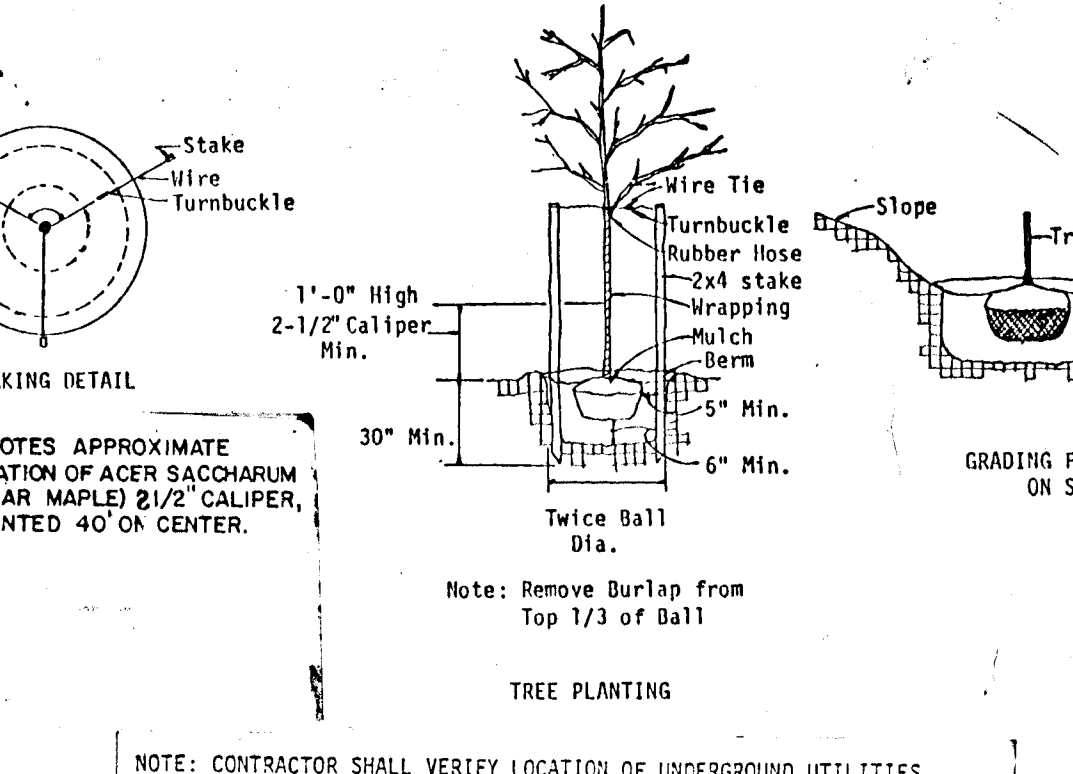
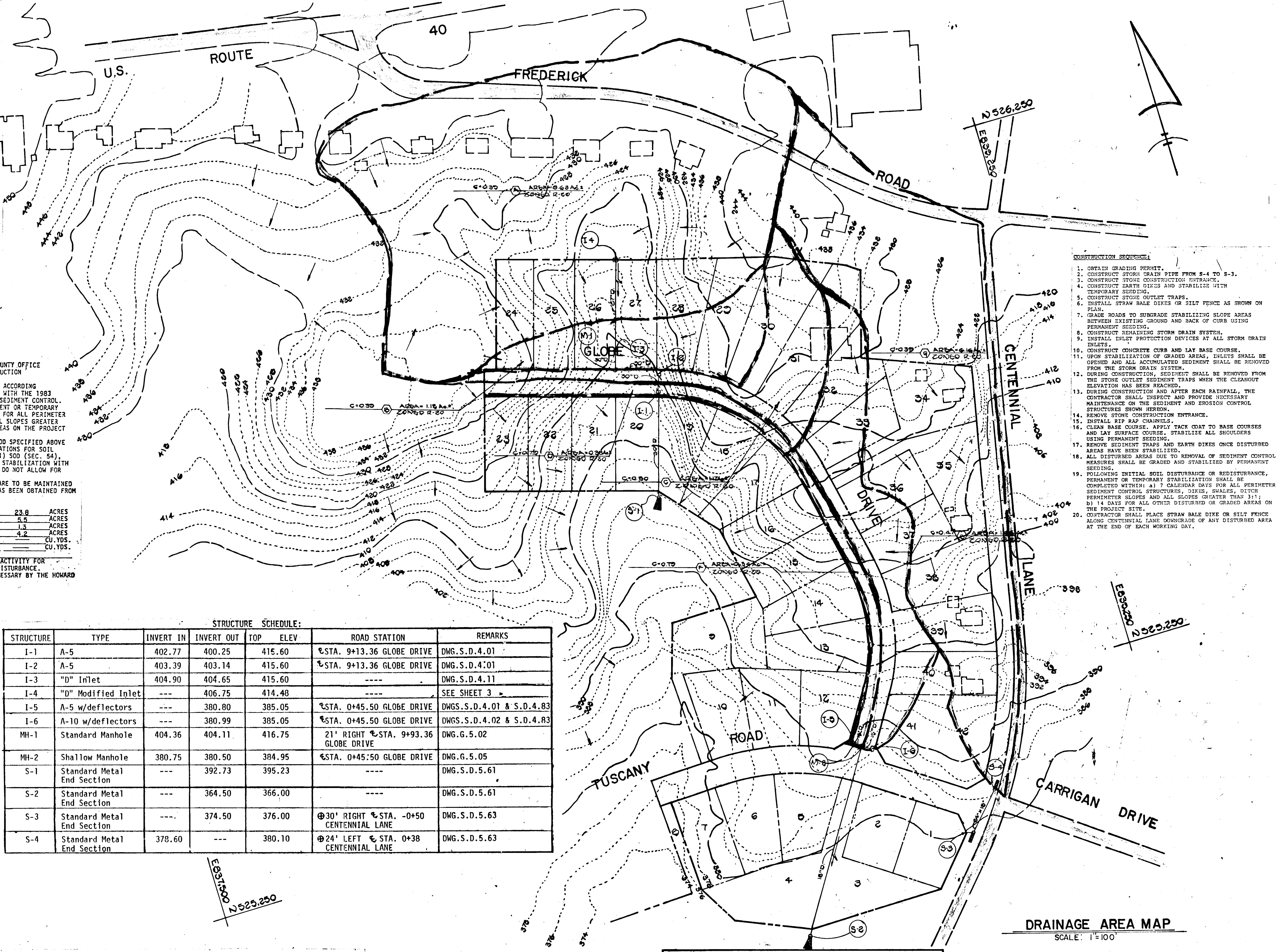
TOTAL AREA OF SITE	23.8 ACRES
AREA DISTURBED	6.5 ACRES
AREA TO BE ROOFED OR PAVED	3.3 ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.2 ACRES
TOTAL CUT	CU. YDS.
TOTAL FILL	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.



- CONSTRUCTION SPECIFICATIONS:**
- ALL DIKES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT. TOP SURFACE SHALL BE FINISHED TO THE PROPOSED GRADE. FOR TOP SURFACE TO BE FINISHED TO THE PROPOSED GRADE, THE DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE. THE DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE. THE DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE.
 - FIELD LOCATION SHOULD BE ACCURATE AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EACH DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE. THE DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE. THE DIKE SHALL BE CONSTRUCTED TO A MINIMUM OF 10 FEET ABOVE THE PROPOSED GRADE.
 - STABILIZATION SHALL BE: (a) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR BED AND TOP SURFACE SHALL BE FINISHED TO THE PROPOSED GRADE. (b) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR BED AND TOP SURFACE SHALL BE FINISHED TO THE PROPOSED GRADE.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



- ANCHORING DETAIL:**
- BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH GAPS TIGHTLY ADJOINING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMPLOYED IN THE SOIL A MINIMUM OF (6) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 - INSPECTION SHALL BE PROVIDED AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS AS NOT IN BLOCK OR IN PACE STORM FLOW OR DRAINAGE.



- TREE PLANTING:**
- NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.

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 OF ENGINEER: [Signature] DATE: 3/7/86

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 SIGNATURE OF DEVELOPER: [Signature] DATE: 3/7/86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE DATE: 4/25/86
 APPROVED: [Signature] DATE: 4/25/86
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT
 APPROVED: DEPARTMENT OF PUBLIC WORKS.
 APPROVED: OFFICE OF PLANNING AND ZONING
 CHIEF, BUREAU OF ENGINEERING DATE: 6/27/86
 APPROVED: [Signature] DATE: 6/25/86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

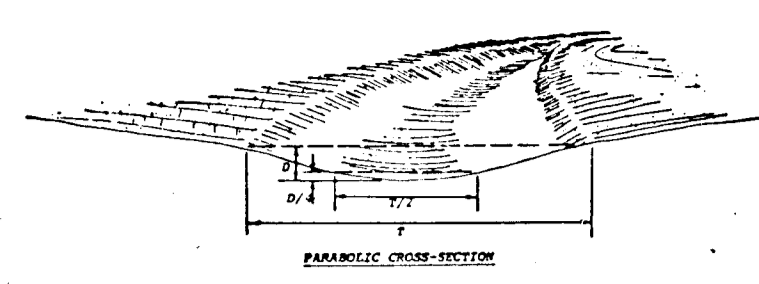
OWNER AND DEVELOPER
 FONT HILL GOLF CLUB, INC.
 C/O GORDON GREENSPUN
 SUITE 275 COMMERCENTRE EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE MD. 21208

DRAINAGE AREA MAP AND SEDIMENT CONTROL DETAILS
 THE FAIRWAYS
 LOTS I-42
 SECTION I AREA I
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN MARCH 17, 1986
 SHEET 4 OF 5

TEMPORARY PARABOLIC CHANNEL DESIGN DATA

LOCATION	T(ft)	D(ft)	Q(cfs)	V(fps)
STATION 0+00 TO 3+70	12.0	1.63	40.80	4.20
STATION 3+70 TO 5+00	19.43	1.15	40.80	4.20

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the lowest water crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with sections nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) inch thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and transported to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.



- CONSTRUCTION SPECIFICATIONS**
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of on site or to a location with the proper functioning of the waterway.
 - The waterway shall be excavated or altered to 1:1, grade, and cross section as required to meet the criteria specified herein, and free of such obstructions or impediments which will impede normal flow.
 - Fills shall be compacted as needed to prevent unusual settlement that would cause damage in the complete waterway.
 - All earth removed and needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway.
 - Stabilization shall be done according to the appropriate Standard and Specifications for Riprap Practices of less than 3.5 ft. per sec., seeding and mulching may be used for stabilization of the waterway. If it is determined that, when conditions permit, temporary diversion or other means should be used to prevent water from entering the waterway during the construction of the waterway.
 - For design velocities of more than 3.5 ft. per sec., the waterway shall be stabilized with rock, with seeding provided by hand or aerial seeding or with seeding and mulching including temporary diversion of the water until the vegetation is established.
 - Structures - Riprap Practice
 - Subsurface drain for base flow shall be constructed as shown on the Standard Drawing and as specified in the Standard and Specifications for Subsurface Drain.

STONE OUTLET SEDIMENT TRAP DATA FOR SEDIMENT TRAP #1

DRAINAGE AREA 10.70 AC. +
 VOLUME REQUIRED 713 CU. YDS. +
 VOLUME PROVIDED 713 CU. YDS.
 TOP DIMENSIONS 84' x 64'
 SIDE SLOPES 1:1
 BOTTOM DIMENSIONS 76' x 56'
 DEPTH 4.0'
 WEIR CREST ELEVATION 361.00
 BOTTOM ELEVATION 356.00
 CLEANOUT ELEVATION 358.00

PARABOLIC CHANNEL DESIGN DATA

LOCATION	T	D	Q	V
LOTS 27-29	720'	0.85'	806c.f.s.	40f.p.s.
LOTS 29-26	635'	1.03'	10,29c.f.s.	4.0f.p.s.
LOTS 16-19	210'	0.78'	2,50c.f.s.	3.0f.p.s.
LOTS 20-21	334'	1.19'	4,68c.f.s.	2.5f.p.s.
LOTS 21-23	936'	0.80'	4,68c.f.s.	2.5f.p.s.

STONE OUTLET SEDIMENT TRAP DATA FOR SEDIMENT TRAP #1

DRAINAGE AREA 10.70 AC. +
 VOLUME REQUIRED 713 CU. YDS. +
 VOLUME PROVIDED 713 CU. YDS.
 TOP DIMENSIONS 84' x 64'
 SIDE SLOPES 1:1
 BOTTOM DIMENSIONS 76' x 56'
 DEPTH 4.0'
 WEIR CREST ELEVATION 361.00
 BOTTOM ELEVATION 356.00
 CLEANOUT ELEVATION 358.00

RIP RAP OUTLET SEDIMENT TRAP #2 DATA:

DRAINAGE AREA 12.85 AC. +
 VOLUME REQUIRED 857 CU. YDS. +
 VOLUME PROVIDED 858 CU. YDS.
 TOP DIMENSIONS 100' x 72'
 BOTTOM DIMENSIONS 93' x 65'
 DEPTH 3.5'
 SIDE SLOPES 1:1
 BOTTOM ELEVATION 395.7
 CLEANOUT ELEVATION 387.45
 WEIR CREST ELEVATION 390.2

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.

Charles J. Crovo 3/27/86
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

John Thompson 3/27/86
SIGNATURE OF DEVELOPER DATE

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

James M. Miller 6-25-86
U.S. SOIL CONSERVATION SERVICE DATE

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

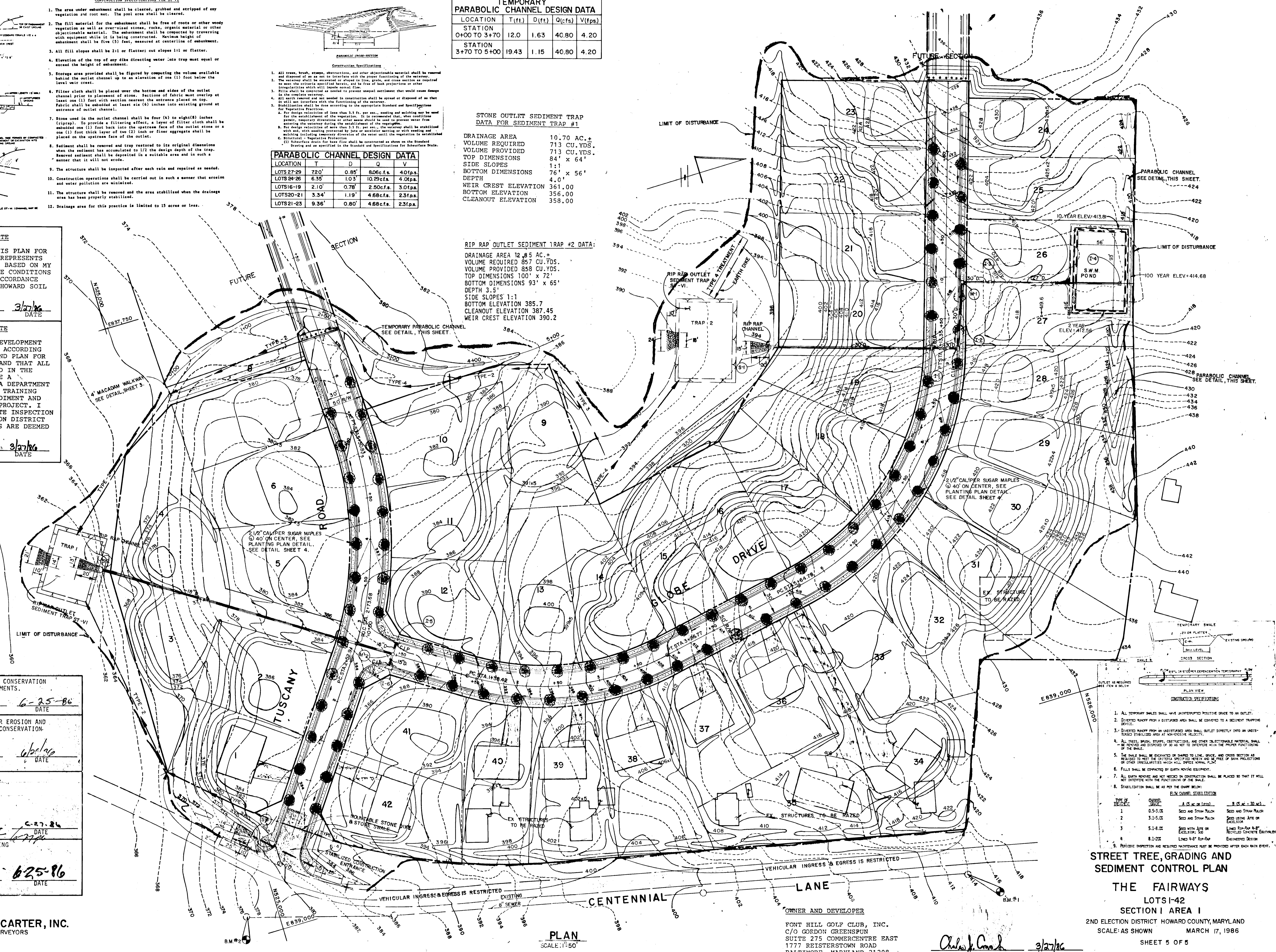
William L. Hahn 6/26/86
DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS.

David R. P. ... 6-27-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING

John M. ... 6-25-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



STREET TREE, GRADING AND SEDIMENT CONTROL PLAN

THE FAIRWAYS

LOTS 1-42
SECTION 1 AREA 1
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN MARCH 17, 1986
SHEET 5 OF 5

OWNER AND DEVELOPER
FONT HILL GOLF CLUB, INC.
C/O GORDON GREENSPUN
SUITE 275 COMMERCENTRE EAST
1777 REISTERSTOWN ROAD
BALTIMORE, MARYLAND 21208

Charles J. Crovo 3/27/86
CHARLES J. CROVO, SR. DATE

PLAN
SCALE: 1"=50'