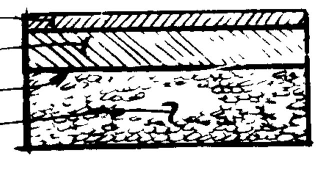
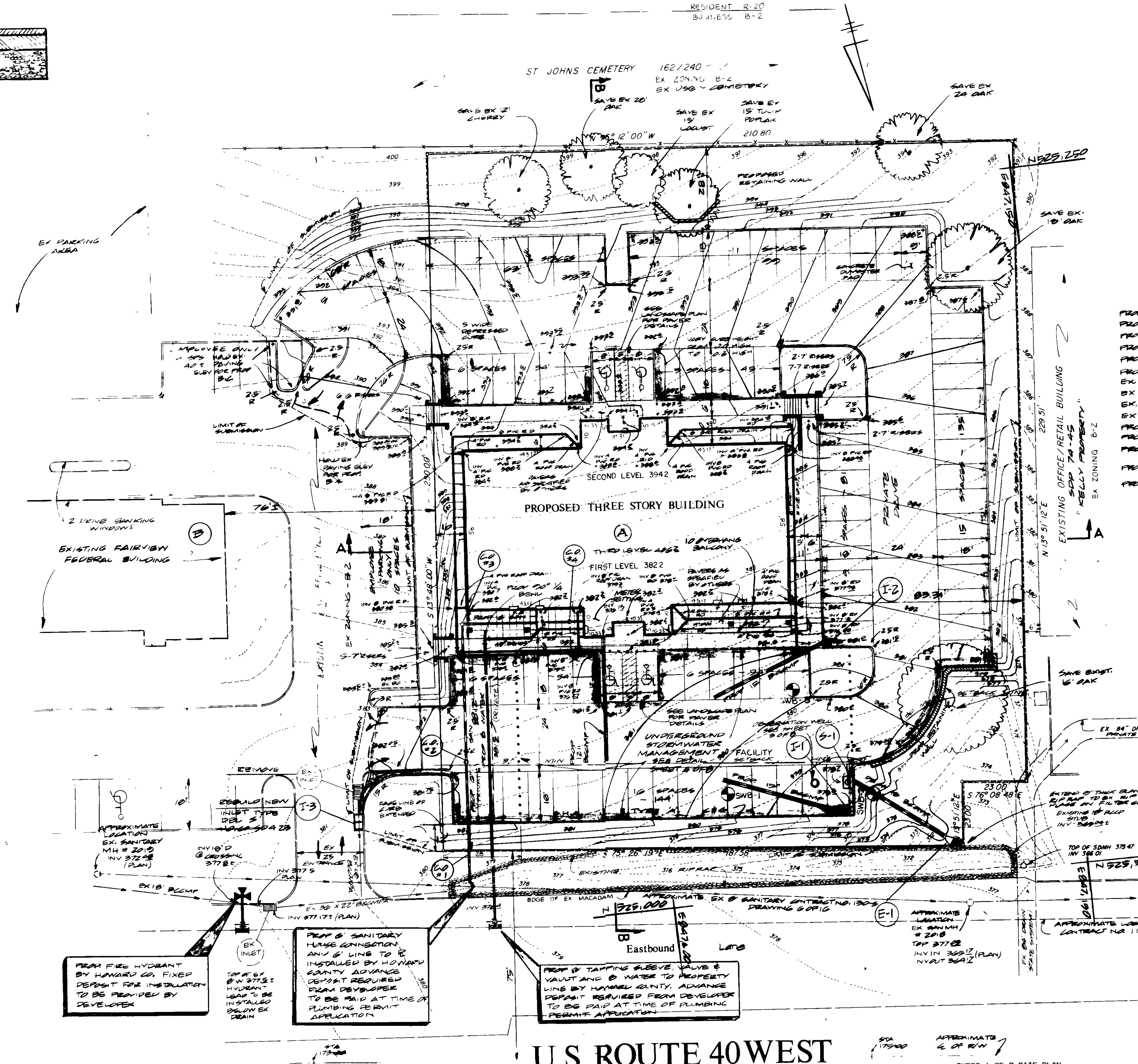
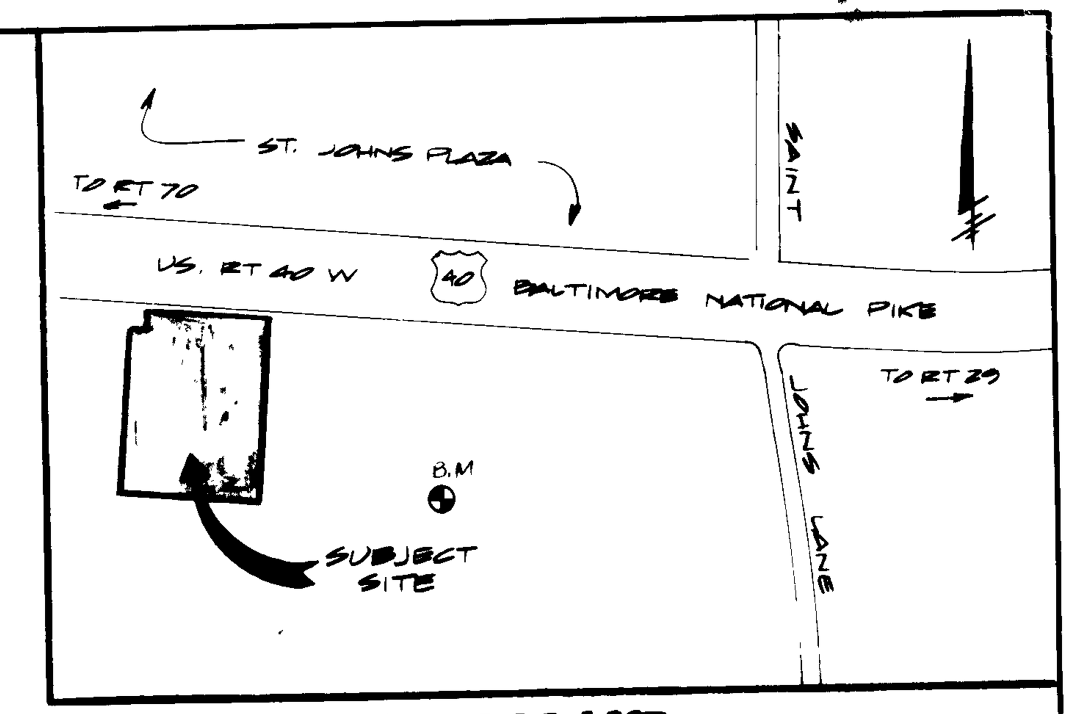
PAVING SECTION







LOCATION MAP SCALE: 1"=200'

BENCHMARK ELEV. 393.25

TOP OF CONCRETE MONUMENT 250 EAST OF SOUTH EAST PROPERTY CORNER.

LEGEND

- PROP HO.CO. CONC. C+G
- PROP S.H.A TYPE 'A' C+G
- PROP STORM DRAIN
- PROP ROOF DRAIN
- PROP SEWER
- PROP WATER
- EX. DRAIN
- EX SEWER
- EX. WATER
- EX CONTOURS
- PROP GRADES
- PROP RETAINING WALL
- PROP. CONCRETE
- PROP. PAVERS
- PROP. PAVING

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

GENERAL NOTES

1. Maximum building height = 40'
2. All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by Howard Soil Conservation District
3. Any damage to public rights-of-way and/or adjacent properties shall be repaired immediately at the contractor's expense
4. The contractor shall maintain at least a 2 level bench behind all curb and gutter in fill areas
5. The contractor shall verify all existing utilities to his own satisfaction before starting construction
6. All slopes shall be 2 1 or flatter
7. All work shall be done in accordance with Howard County Standard Specifications and Details for Construction, or as shown on these plans
8. The contractor shall notify the C&P Telephone Co and the Gas and Electric Company five days prior to starting work shown on these plans by calling "Miss Utility Call collect 1-559-0100
9. For details of ramps and signs for the handicapped see the Maryland Building Code for the Handicapped and Aged and as shown hereon See Sheet 2 of 8.
10. The contractor shall maintain a minimum of 4' cover over all proposed water lines
11. All rip-rap shall be placed on filter cloth
12. The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 992-2417 or 792-7272
13. The contractor shall remove all existing paving, curb and gutter, etc that may interfere with proposed construction
14. All utilities installed shall receive full trench compaction
15. All water main tees, bends, caps etc shall be buttressed in accordance with Howard County Design requirements
16. All sidewalks will be 6' wide (see architectural plans for details)
17. All exterior lighting devices shall be directed/reflected away from all adjacent public road right of ways and residentially zoned properties
18. The proposed building shall be fully sprinklered
19. Meter setting within building

SITE ANALYSIS

EXISTING ZONING	B-2
TOTAL AREA OF PROP SITE A	52 470 SF/1 207 ACS
TOTAL AREA OF EXIST SITE B	62 509 SF/1 475 ACS
AREA OF SUBMITTAL	59 220 SF/1 360 ACS
PROPERTY REFERENCE/PROP SITE A	614/119
PROPERTY REFERENCE/EXIST SITE B	561/721
EXISTING USE/PROP SITE A	VACANT
EXISTING USE/EXIST SITE B	EX SAVINGS AND LOAN
PROPOSED USE SITE A	RETAIL AND OFFICE BUILDING
TOTAL FLOOR AREA SITE A	21 980 SF
GROUND FLOOR 7,320 SF	
FISRT FLOOR 7 320 SF	
SECOND FLOOR 7,320 SF	
PARKING REQUIRED SITE A	72 SPACES
PARKING PROPOSED SITE A	81 SPACES

SITE DATA PROPOSED SITE A

FLOOR AREA RATIO 21,960 SF/52,430 SF=	42
% OF OPEN SPACE 0.36 ACS./1 203 ACS =	30%
% OF BUILDING COVERAGE WITH PAVING* 0 843 ACS /1.203 ACS =	70%
TOTAL AREA OF PARKING LOT*	26 194 SF [illegible]
TOTAL AREA OF LANDSCAPED ISLANDS*	2 621 SF/[illegible] 6 ACS
% OF LANDSCAPED ISLANDS TO PARKING LOTS 0 06 ACS./ 60 ACS =	10%
AREA TO BE DISTURBED**	52 708 SF 1 21 ACS
AREA TO BE VEGATATIVELY STABILIZED**	11 326 SF/0 26 SF

*INCLUDES ONLY THAT AREA WITHIN THE BOUNDARY OF THE PROP SITE A
**INCLUDES AREA OUTSIDE THE BOUNDARY OF THE PROP SITE A

SITE DATA EXISTING SITE B

FLOOR AREA RATIO 14,259 SF/62 509 SF =	23
% OF OPEN SPACE 0 50 ACS /1 435 ACS =	35%
% OF BUILDING COVERAGE WITH PAVING 0 975 ACS /1 435 ACS =	65%
TOTAL AREA OF PARKING LOT =	35,760 SF/0 82 ACS
TOTAL AREA OF LANDSCAPED ISLANDS =	4 000 SF 0 09 ACS
%OF LANDSCAPED ISLANDS TO PARKING LOTS 0 09 ACS / 82 ACS =	11%

PARKING TABULATION

PROPOSED SITE A

REQUIRED	
GROUND FLOOR 7 320 SF RETAIL @ 1SP [illegible]	= 36 [illegible] SP
FIRST FLOOR & SECOND FLOOR 7 320 SF OFFICE EACH FLOOR 14 640 SF TOTAL/50 EMPLOYEES @ 7 SPACES PER 10 EMPLOYEES	= 35 SP
TOTAL PARKING REQUIRED	= 72 SP
PROPOSED	
STANDARD SPACES @ 9 x 18	= 77 SP
HANDICAP SPACES @ 2 SIDE BY SIDE 21 x 18	= 4 SP
TOTAL PARKING PROPOSED	= 81 SP *

*INCLUDES ONLY THOSE SPACES WITHIN THE BOUNDARY OF THE PROP SITE A

EXISTING SITE B

REQUIRED	
GROUND FLOOR 3,000 SF OF CUSTOMER/TELLER AREA @ 1SP PER 200 SF	= 15 SP
FIRST FLOOR AND SECOND FLOOR 4,850 SF OF OFFICES EACH FLOOR 11,550 SF TOTAL OFFICE @ 38 EMPLOYEES @ 7 SPACES PER 10 EMPLOYEES	= 28 SP
TOTAL PARKING REQUIRED	= 47 SP
TOTAL SPACES EXISTING SUBSEQUENT TO DEVELOPMENT OF SITE A	= 68 SP
STANDARD SPACES 9 x 18	
HANDICAP SPACES 13 x 18	= 2 SP
TOTAL PARKING PROVIDED WITHIN THE BOUNDARY OF EXISTING SITE B SUBSEQUENT TO THE DEVELOPMENT OF SITE A	= 70 SP

STORMWATER MANAGEMENT MAINTENANCE SCHEDULE

ITEM	FREQUENCY
CLEAN OUT SILT	EVERY THREE MONTHS
CLEAN OUT TRASH	EVERY TWO WEEKS
CHECK WEIR CLOGGING	EVERY THREE MONTHS
CHECK STRUCTURAL INTEGRITY	EVERY THREE MONTHS

INSPECT ALL ITEMS AFTER EACH MAJOR RAINFALL AND REPAIR AS REQUIRED

SHEET 1 OF 8 SITE PLAN
SHEET 2 OF 8 DETAILS
SHEET 3 OF 8 DETAILS
SHEET 4 OF 8 DETAILS
SHEET 5 OF 8 GRADING,SEDIMENT AND EROSION CONTROL PLAN
SHEET 6 OF 8 GRADING,SEDIMENT AND EROSION CONTROL PLAN
SHEET 7 OF 8 LANDSCAPE/PLANTING PLAN
SHEET 8 OF 8 LANDSCAPE/PLANTING DETAILS

Howard County Soil Conservation District

The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.

Approved. Howard Soil Conservation District — Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

The United States Soil Conservation Services — Date 4-26-88

APPROVED: For public water and public sewerage systems Howard County Health Department

County Health Officer — Date 8-2-88

APPROVED: Howard County Office of Planning & Zoning

Director — Date 5.4.88

Chief Division of Community Planning and Land Development — Date 5/4/88

APPROVED: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works

Director — Date 4/28/88

Chief Bureau of Engineering — Date 4.28.88

ADDRESS CHART

BUILDING #	STREET ADDRESS
PARCEL 1047 PROP BLDG	9175 BALTIMORE NATIONAL PIKE

SUBDIVISION NAME				SECT./AREA	LOT/PARCEL #
FAIRVIEW FEDERAL OFFICE BUILDING				—	1047
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST	CENSUS TRACT
614/119	5	B-2	24	2ND	6023.01
WATER CODE	HO-4		SEWER CODE	5753700	

GWS
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — [seal]

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR S W.M FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER ____ REG NO ____

OWNER/DEVELOPER

Fairview Federal Savings & Loan Association
9151 Baltimore National Pike/Ellicott City, Maryland 21043-3990
(301) 465 4800

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. 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 OTHER AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER. Donald L. Mulholly CHAIRMAN OF BOARD DATE 11-18-87

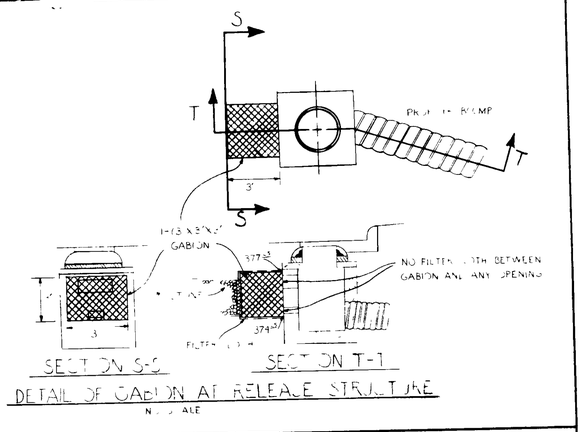
SITE DEVELOPMENT PLAN

FAIRVIEW FEDERAL

OFFICE BUILDING

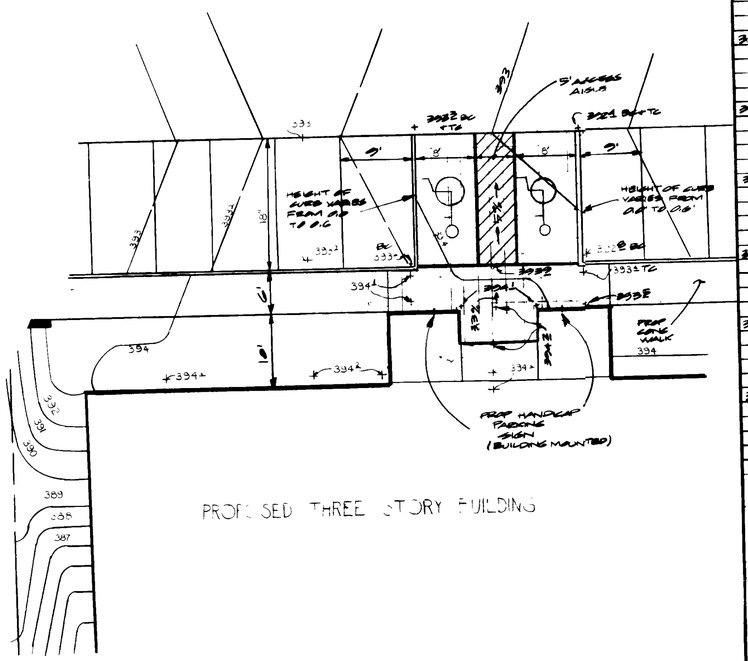
Scale 1"=20'
Howard County, Maryland
SDP 88-117
TAX MAP 24 PARCEL 1047
2nd Election District
June 1987
Sheet 1 of 8

SDP-88-117



DETAIL OF GABION AT RELEASE STRUCTURE

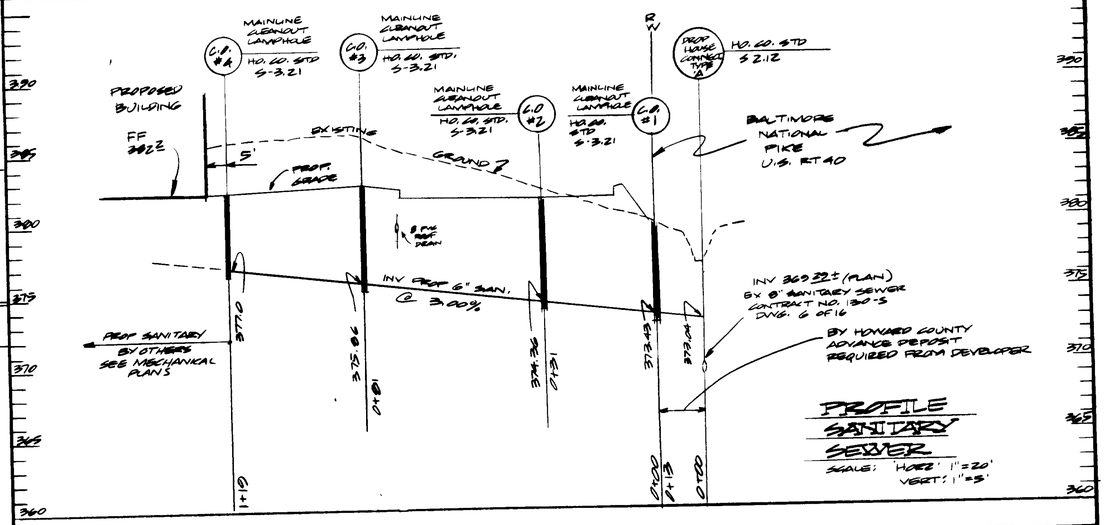
NO SCALE

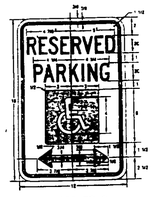


PROPOSED THREE STORY BUILDING

HANDICAP PARKING SPACE DETAIL

SCALE 1"=5'





STANDARD R7-8 RESERVE PARKING SIGN

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

$50 FINE

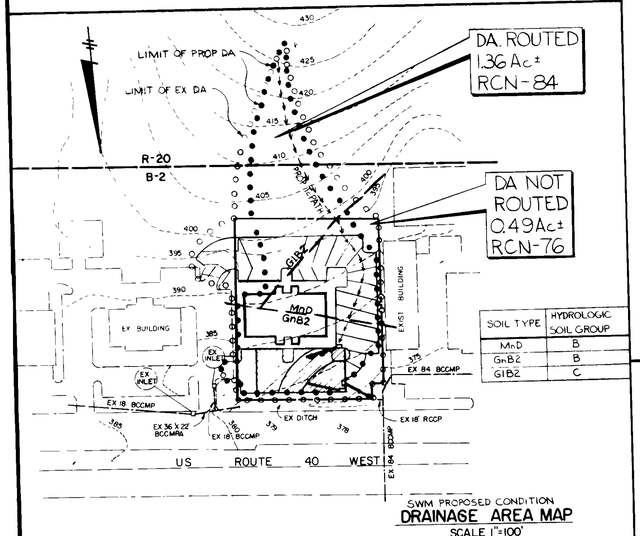
$50 Fine Sign

Sign to utilize an aluminium blank 6" x 12" x 0.080 inch thick with two single post mounting holes.

The text and border shall be standard green to match that on R7-8 and the background shall be reflective white. Text shall be in 3" characters.

Sign shall be mounted directly below the standard R7-8 Reserved Parking for Handicapped sign. Its bottom edge shall be no less than 7 feet above ground. If the sign is placed against a building, structure, or other location where vehicle or pedestrian traffic is not obstructed the bottom edge of sign shall be at least 6 feet but not more than 10 feet above ground.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

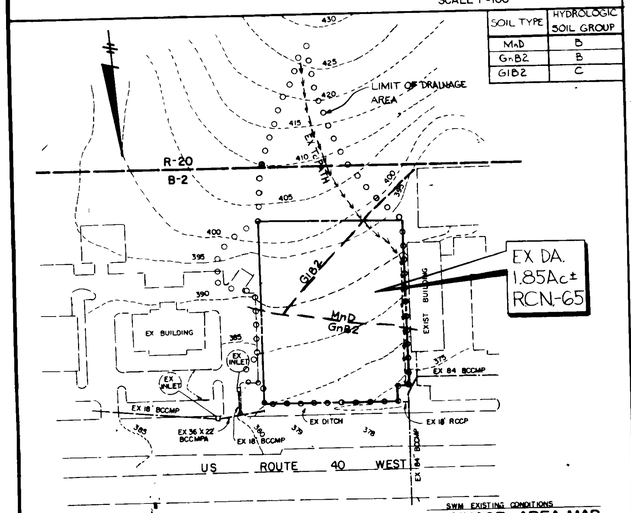


SOIL TYPE	HYDROLOGIC SOIL GROUP
MnD	B
GnB2	B
GtB2	C

SWM PROPOSED CONDITION

DRAINAGE AREA MAP

SCALE 1"=100'



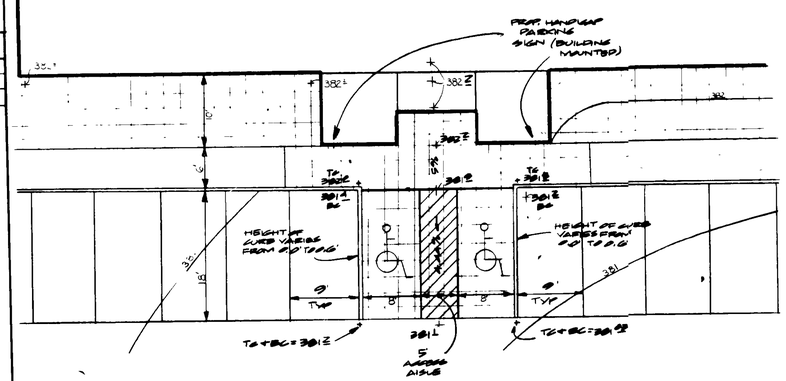
SOIL TYPE	HYDROLOGIC SOIL GROUP
MnD	B
GnB2	B
GtB2	C

SWM EXISTING CONDITIONS

DRAINAGE AREA MAP

SCALE 1"=100'

PROPOSED THREE STORY BUILDING

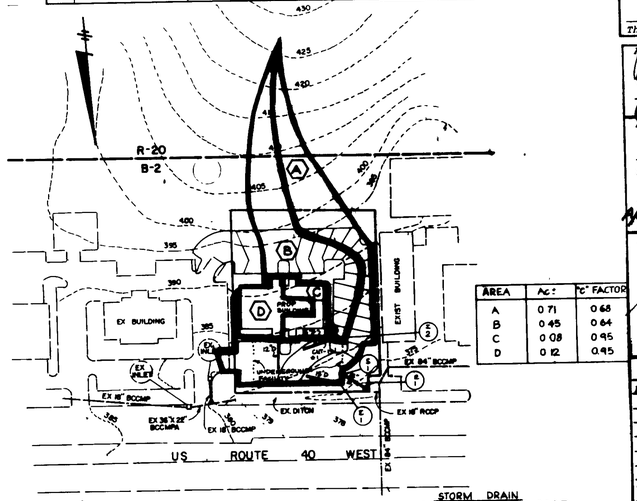


HANDICAP PARKING SPACE DETAIL

SCALE 1"=5'

STRUCTURE SCHEDULE

No	TYPE	TOP ELEV	INV IN	INV OUT	REMARKS
I-1	DOUBLE S' COMB	378 3	-	375 75	SEE HO CO STD SD-4 34
I-2	DOUBLE 'S' COMB	381 0	-	375 75	SEE HO CO STD SD-4 34
S-1	RELEASE STRUCT	378 7	-	374 11	SEE DETAIL SHT 4 OF 7
E-1	METAL END SECT	-		373 99	SEE HO CO STD SD-5-61



AREA	Ac:	'C' FACTOR
A	0 71	0 68
B	0 45	0 64
C	0 08	0 95
D	0 12	0 95

STORM DRAIN

DRAINAGE AREA MAP

SCALE 1"=100'

Howard County Soil Conservation District

The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.

Approved: Howard Soil Conservation District — Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

The United States Soil Conservation Services — 4/26/88 Date

APPROVED: For public water and public sewerage systems Howard County Health Department.

County Health Officer — 5-2-88 Date

APPROVED: Howard County Office of Planning & Zoning.

Director — 5.4.88 Date

Chief Division of Community, Planning and Land Development — 5/4/88 Date

APPROVED: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.

Director — 4/28/88 Date

Chief Bureau of Engineering — 4-28-88 Date

ADDRESS CHART

BUILDING #	STREET ADDRESS

SUBDIVISION NAME | SECT./AREA | LOT/PARCEL # 1047

PLAT # OR L/F | BLOCK # | ZONE B-2 | TAX/ZONE MAP 24 | ELECT. DIST. 2ND | CENSUS-TRACT

WATER CODE | SEWER CODE

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS

303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

ENGINEER'S CERTIFICATE

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ENGINEER: TAPOBRATA CHAKRABARTI — DATE

REG NO 8430

OWNER/DEVELOPER

Fairview Federal Savings & Loan Association

9151 Baltimore National Pike/Ellicott City, Maryland 21043-3990
(301) 465-4800

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER Donald E. Mikelly, Chairman of Board — DATE 11-18-87

DETAILS

FAIRVIEW FEDERAL

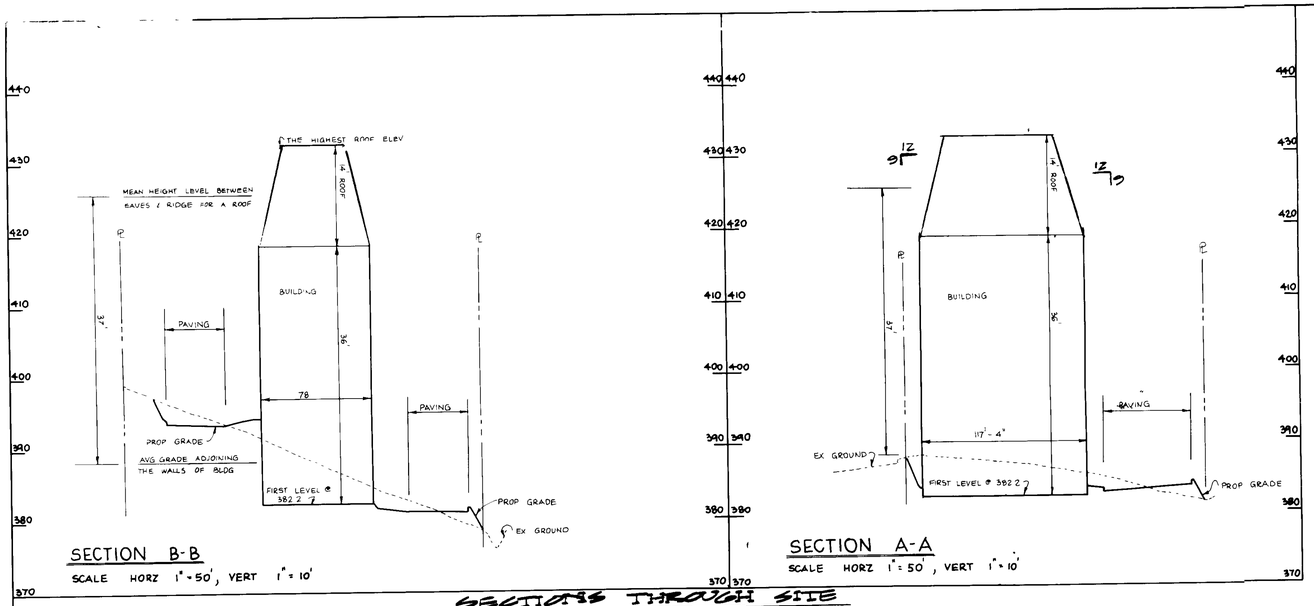
OFFICE BUILDING

Scale: 1"=20'
Howard County, Maryland
SDP 88-117

TAX MAP 24 PARCEL 1047

2nd Election District
June 1987
Sheet 2 of 8

SDP-88-117



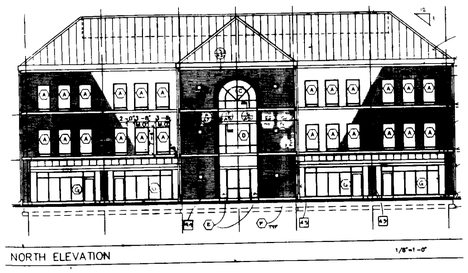
SECTION B-B

SCALE HORZ 1" = 50', VERT 1" = 10'

SECTION A-A

SCALE HORZ 1" = 50', VERT 1" = 10'

SECTIONS THROUGH SITE



NORTH ELEVATION 1/8"=1'-0"

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

STORM WATER MANAGEMENT DATA

SOIL GROUP

EXISTING CONDITION

D.A. = 1.85 Ac ±
RCN = 65
2 Yr. Flow = 1.25 cfs*
10 Yr Flow = 4.01 cfs*
100 Yr Flow =

PROPOSED CONDITION

A) Not Routed
D A. = 0.49 Ac ±
RCV = 76
2 Yr. Flow = 0 83 cfs*
10 Yr Flow = 1 85 cfs*
100 Yr Flow =

B) Routed
S W M. Facility - Underground facility
D A = 1 36 Ac ±
RCV = 84

BEFORE MANAGEMENT	AFTER MANAGEMENT (ROUTING)
2 Yr Flow = 2 91 cfs*	0 48 cfs*(w.s. elev. @ 376 42)*
10 Yr Flow = 5.68 cfs*	3 55 cfs*(w s. elev. @ 377 05)*,

SUMMARY (RELEASE FROM FACILITY + FLOW FROM AREA NOT ROUTED)

For 2 Yr. Storm = 1 20 cfs*	1 25 cfs*
For 10 Yr. Storm = 4 02 cfs*	4 01 cfs*

HYDROLOGIC CRITERIA

Required - 2 and 10 yr storm water management
Provided - 2 and 10 yr. storm water management

Structure Classification - A
Maximum Depth of Water - 2 05'

STORAGE REQUIREMENT

For 2 Yr. Storm - 3192 c.f
For 10 Yr. Storm - 5006 c.f.

* FROM COMPUTER RUN

UNDERGROUND STONE
STORM WATER MANAGEMENT
CONSTRUCTION SPECIFICATIONS

I. SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, AND STRUCTURAL WORKS SHALL BE CLEARED, GROUBED 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 2:1.

AREAS TO BE COVERED BY STORM WATER MANAGEMENT DEVICES WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.

II. EARTH FILL - APPLICABLE WITHIN 20' (MEASURED HORIZONTALLY) FROM AN UNDERGROUND STONE STORAGE DEVICE.

MATERIAL

THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL SHALL BE UNIFIED SOILS CLASSIFICATION SC OR CL.

PLACEMENT

AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED FARTHEST FROM THE STORAGE DEVICE.

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 COMPACTED TO 95% OF AASHTO SPECIFICATION T-99 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.

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 TAMPERS OR OTHER COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF THIRTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

1. MATERIALS (STEEL PIPE) - 8" OUTFALL PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENT OF AASHTO SPECIFICATION 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 PIPE WHICH OUTFALLS INTO STORM WATER MANAGEMENT FACILITY SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE 'A' GA.14. THIS PIPE SHALL BE PERFORATED WITH A MINIMUM OF 16 PERFORATIONS OF 1/4 INCH IN DIAMETER PER LINEAR FOOT OF PIPE. PERFORATIONS SHALL BE IN BOTTOM HALF OF PIPE AT LEAST 22 1/2° BELOW THE HORIZONTAL AXIS.

2 CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. WATERTIGHT COUPLING BANDS SHALL BE USED AT ALL JOINTS. ANTI-SEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT

3. BEDDING - PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. LAYING PIPE - THE PIPE SHALL BE PLACED WITH INSIDE-CIRCUMFERENTIAL LAPS POINTING DOWNSTREAM AND WITH LONGITUDINAL LAPS AT THE SIDES

V #2 STONE

#2 STONE SHALL MEET MSHA #2 STONE STANDARDS, FOR USE IN STONE STORAGE PITS

VI CONCRETE

CONCRETE SHALL MEET MINIMUM REQUIREMENTS SET FORTH IN MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES ARTICLE 20.07 (PORTLAND CEMENT CONCRETE MIXTURES), MIX NO 3. REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60, STEEL ANGLES AND ANCHOR BARS SHALL BE ASTM A 36.

VII. FILTER CLOTH

FILTER CLOTH SHALL MEET OR EXCEED ALL REQUIREMENTS IN SECTION 20.25-5 OF THE BALTIMORE COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SUITABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE, BUT ARE NOT LIMITED TO, MIRAFI 140S, DUPONT TYPAR #3341 OR #3401

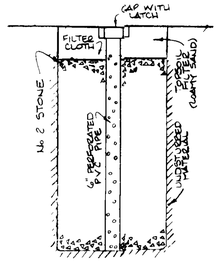
VIII. GABIONS

GABIONS SHALL BE PVC COATED, CL. IV ON FILTER CLOTH, AS REQUIRED.

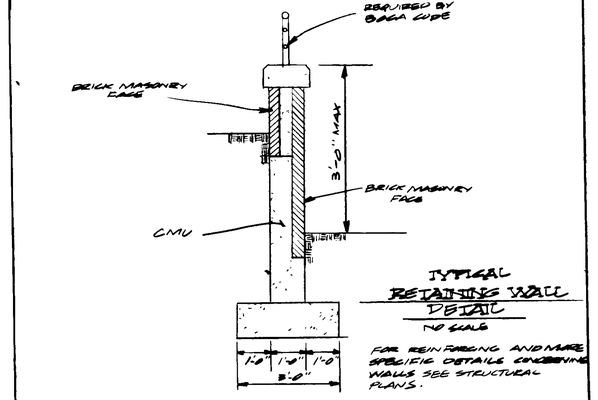
IX. STABILIZATION

ALL EXPOSED ONSITE SURFACES AND BORROW AREAS SHALL BE GRADED FOR PROPER DRAINAGE AND LEFT IN A STABLE CONDITION.

EXPOSED SURFACES NOT STABILIZED IN ACCORDANCE WITH THESE PLANS SHALL BE SEEDED, LIMED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN.



OBSERVATION WELL DETAIL
(No SCALE)



TYPICAL RETAINING WALL DETAIL
NO SCALE

FOR REINFORCING AND MORE SPECIFIC DETAILS CONCERNING WALLS SEE STRUCTURAL PLANS.

Howard County Soil Conservation District

The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.

Approved. Howard Soil Conservation District — Date 4-26-88

Reviewed for Howard Soil Conservation District and meets technical requirements.

The United States Soil Conservation Services — Date 4-26-88

APPROVED: For public water and public sewerage systems Howard County Health Department.

County Health Officer — Date 5-2-88

APPROVED: Howard County Office of Planning & Zoning.

Director — Date 5.4.88

Chief Division of Community Planning and Land Development — Date 5/4/88

APPROVED: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.

Director — Date 4/28/88

Chief Bureau of Engineering — Date 4-22-88

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER: Fadbrata Chakrabarti — DATE 12/4/87
FADBRATA CHAKRABARTI
REG NO 8990

OWNER/DEVELOPER

Fairview Federal Savings & Loan Association
9151 Baltimore National Pike/Ellicott City, Maryland 21043 3990
(301) 465-4800

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: Donald L Mishelly CHAIRMAN OF BOARD — DATE: 11-18-87

DETAILS

FAIRVIEW FEDERAL

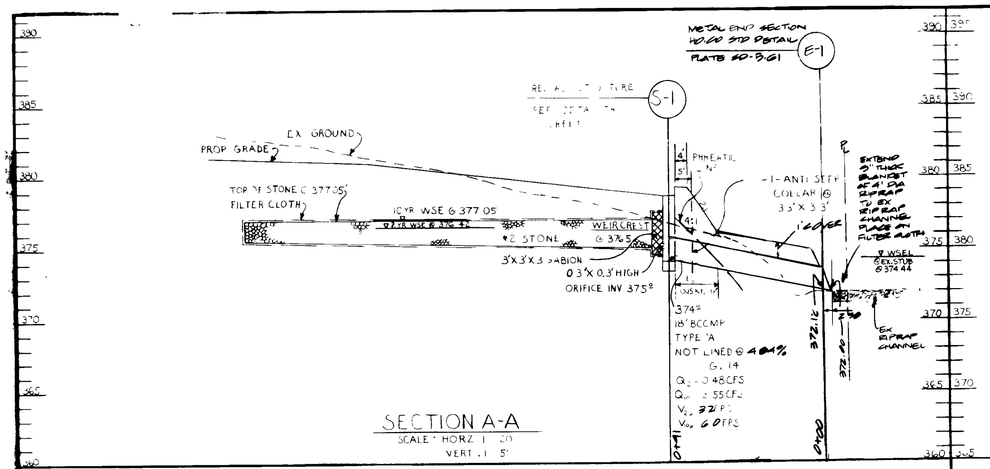
OFFICE BUILDING

Scale 1"=20'
Howard County, Maryland
SDP 88-117

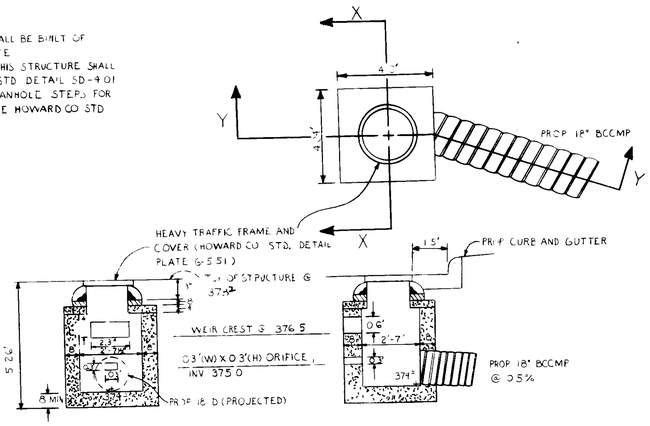
Tax Map 24 Parcel 1067

2nd Election District
June 1987
Sheet 2 of 2

SDP-88-117



NOTES:
1. THE STRUCTURE SHALL BE BUILT OF REINFORCED CONCRETE.
2. REINFORCEMENT OF THIS STRUCTURE SHALL BE PER HOWARD CO. STD. DETAIL SD-4.01
3. PROVIDE TYPICAL MANHOLE STEPS FOR THE STRUCTURE. SEE HOWARD CO STD DETAIL G-5.21

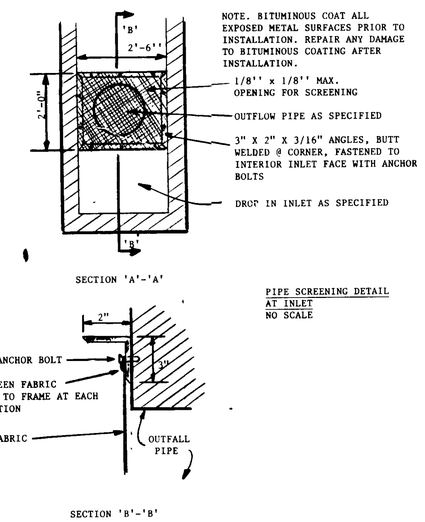


SECTION X-X

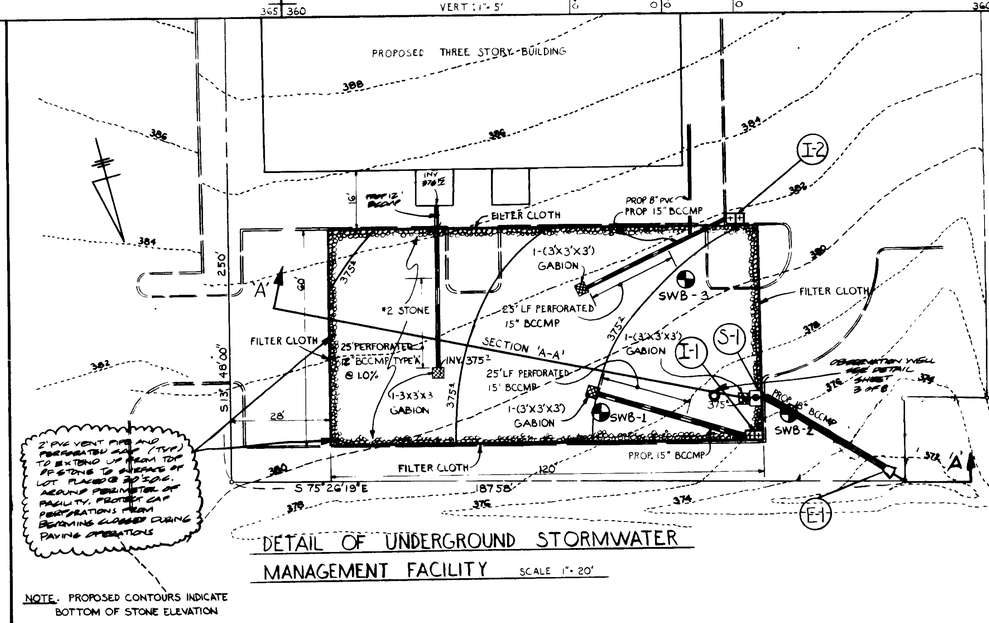
SECTION Y-Y

UNLESS OTHERWISE NOTED INLET SHALL BE BUILT UP ACCORDING TO HOWARD CO. STD. DETAIL PLATE SD-4.22 (SINGLE 'S' INLET)

STORM WATER MANAGEMENT RELEASE STRUCTURE DETAIL
NO SCALE

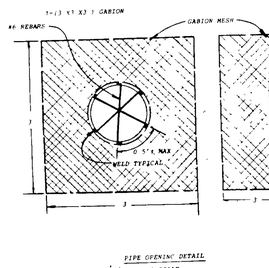


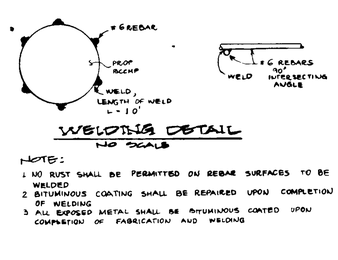
PIPE SCREENING DETAIL
AT INLET
NO SCALE



NOTE. PROPOSED CONTOURS INDICATE BOTTOM OF STONE ELEVATION

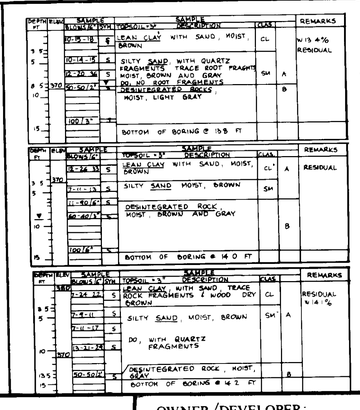
DETAIL OF UNDERGROUND STORMWATER MANAGEMENT FACILITY
SCALE 1"=20'





WELDING DETAIL
NO SCALE

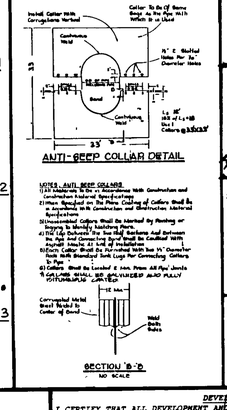
NOTE:
1. NO RUST SHALL BE PERMITTED ON REBAR SURFACES TO BE WELDED
2. BITUMINOUS COATING SHALL BE REPAIRED UPON COMPLETION OF WELDING
3. ALL EXPOSED METAL SHALL BE BITUMINOUS COATED UPON COMPLETION OF FABRICATION AND WELDING



SOIL BORING SWB-1

SOIL BORING SWB-2

SOIL BORING SWB-3



UNITED ANTI SEEP COLLARS
1) All Materials & Dim. in Accordance With Construction and Construction Material Specifications
2) When Required on The Plans Coating of Collars Shall Be in Accordance With Construction and Construction Material Specifications
3) Connecting Collars Shall Be Installed By Banding or Welding Or Mechanically Locking Them.
4) The Lap Between The Two Shall Maintain And Between The Pipe And Connecting Band Shall Be Caulked With Asphalt Mastic At End of Installation
5) Each Collar Shall Be Furnished With Two ½" Diameter Holes With Bands And Lugs For Connecting Collars Together
6) Collars Shall Be Located 5' From Joints And Ajar Joints
7) Collars Shall Be Furnished And Fully Installed As Plan Notes Or Detail

APPROVED: For public water and public sewerage systems Howard County Health Department.
County Health Officer — Date 5-28-88

APPROVED: Howard County Office of Planning & Zoning:
Director — Date 5.4.88
Chief Division of Community Planning and Land Development — Date 5/4/88

Howard County Soil Conservation District

The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.
Approved, Howard Soil Conservation District — Date 4/26/88

Reviewed for Howard Soil Conservation District and meets technical requirements.
The United States Soil Conservation Services — Date 4/26/88

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

APPROVED: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.
Director — Date 4/28/88
Chief Bureau of Engineering — Date 4-28-88

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
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ENGINEER'S CERTIFICATE
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ENGINEER [signature] — DATE 11-17-87
REG. NO. 8430

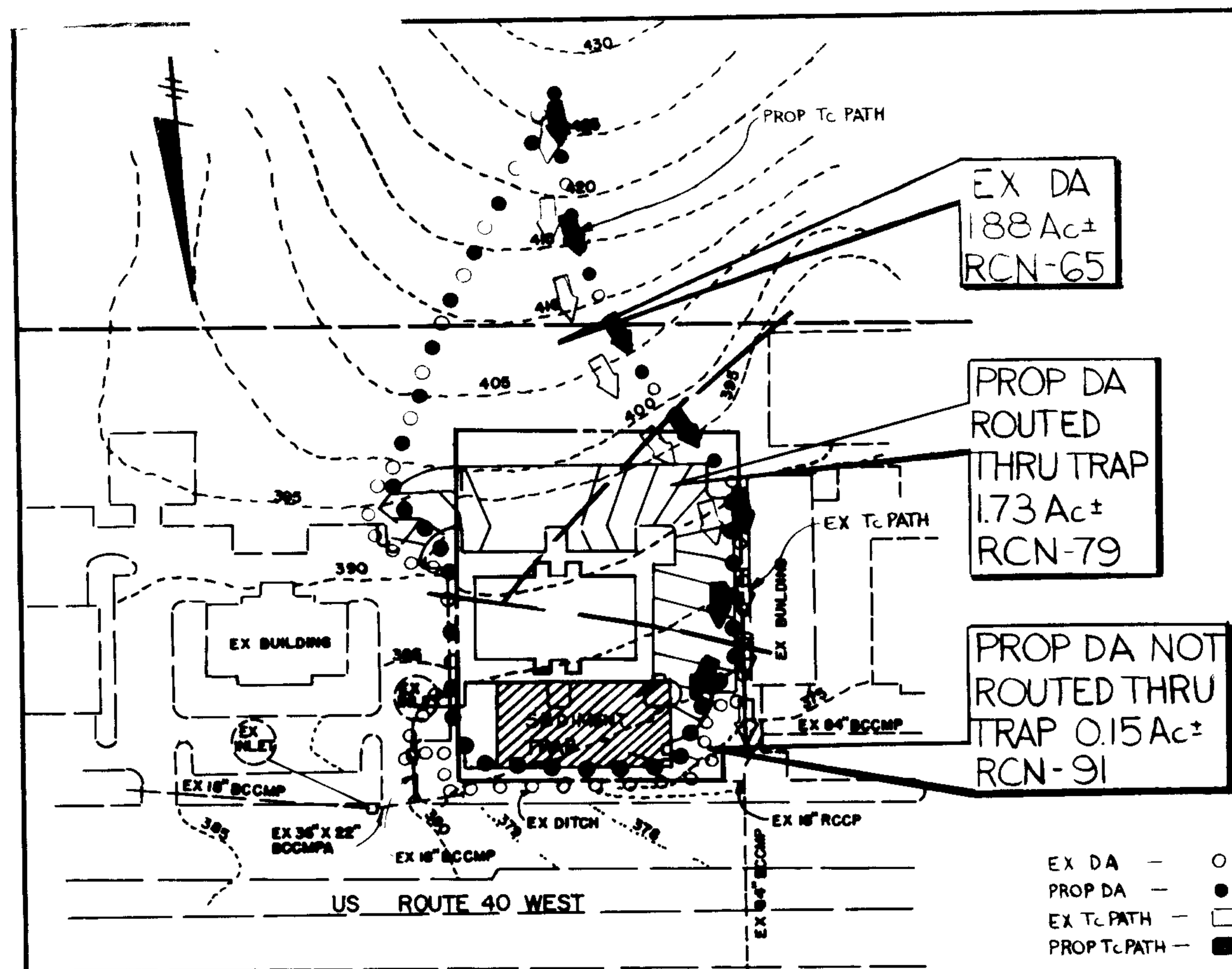
OWNER/DEVELOPER
Fairview Federal Savings & Loan Association
9151 Baltimore National Pike/Ellicott City, Maryland 21043-3990
(301) 465 4800

DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER Donald E. Mitchell, chairman of Board — DATE 11-18-87

DETAILS
FAIRVIEW FEDERAL
OFFICE BUILDING
Scale: 1"=20'
Howard County, Maryland
SDP 88-117
TAX MAP 24 PARCEL 1047
2nd Election District
June 1987
Sheet 4 of 6

SDP-88-117



SEDIMENT & EROSION CONTROL DRAINAGE AREA MAP

SCALE: 1"=100'

CONSTRUCTION SPECIFICATIONS

I SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, 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 3:1

AREAS TO BE COVERED BY STORM WATER MANAGEMENT DEVICES WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL

II EARTH FILL

MATERIAL:

THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL SHALL BE UNIFIED SOILS CLASSIFICATION SC OR CL

PLACEMENT:

AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED FARTHEST FROM THE STORAGE DEVICE.

COMPACTION:

THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE COMPACTED TO 95% OF AASHTO SPECIFICATION T-99. THE 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.

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 TAMPERS OR OTHER COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE

IV PIPE CONDUITS

A CORRUGATED METAL PIPE

1 MATERIALS (STEEL PIPES) - [illegible]" OUTFALL PIPE AND APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENT OF AASHTO SPECIFICATION M-190 TYPE "A" WITH WATERTIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND.

2 CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. WATERTIGHT COUPLING BANDS SHALL BE USED AT ALL JOINTS.

3 BEDDING - PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT

4 BACKFILLING SHALL CONFORM TO STRUCTURAL BACKFILL AS SHOWN ABOVE

V CONCRETE

CONCRETE SHALL MEET MINIMUM REQUIREMENTS SET FORTH IN MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES (PORTLAND CEMENT CONCRETE MIXTURES), MIX NO 3. REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60. STEEL ANGLES AND ANCHOR BARS SHALL BE ASTM A 36

VI FILTER CLOTH

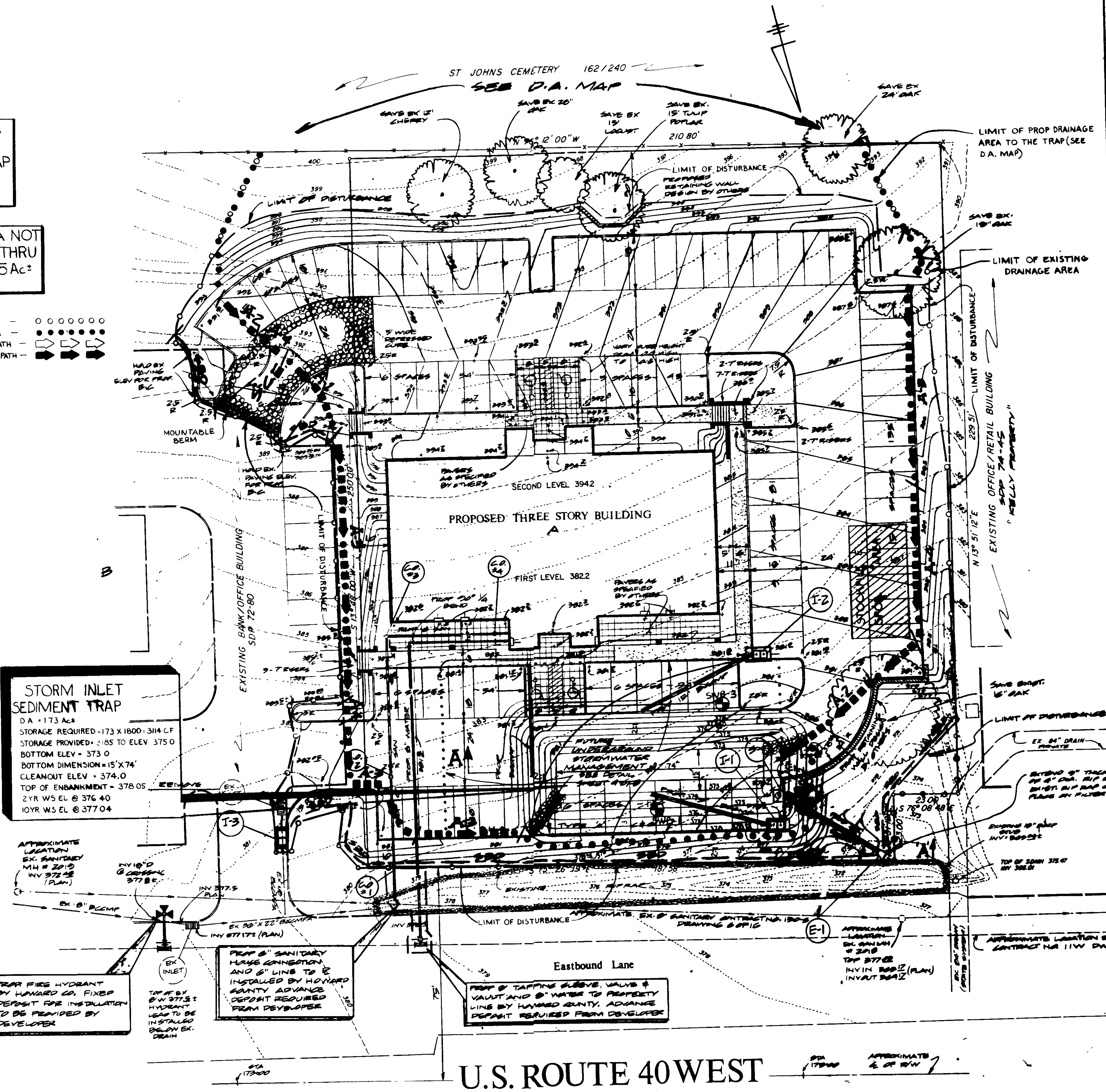
FILTER CLOTH SHALL MEET OR EXCEED ALL REQUIREMENTS IN SECTION 20 25-5 OF THE BALTIMORE COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SUITABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE, BUT ARE NOT LIMITED TO, MIRAFI 140S, DUPONT TYPAC #3341 OR #3401

VII GABIONS

GABIONS SHALL BE PVC COATED CL. IV ON FILTER CLOTH, AS REQUIRED

VIII STABILIZATION

SEE PERMANENT AND TEMPORARY SEEDING NOTES



STORM INLET SEDIMENT TRAP

D A = 1.73 Ac±
STORAGE REQUIRED = 1.73 X 1800 = 3114 C.F.
STORAGE PROVIDED = 3185 TO ELEV 375.0
BOTTOM ELEV = 373.0
BOTTOM DIMENSION = 15' X 74'
CLEANOUT ELEV = 374.0
TOP OF EMBANKMENT = 378.05
2YR WS EL @ 376.40
10YR WS EL @ 377.04

U.S. ROUTE 40 WEST

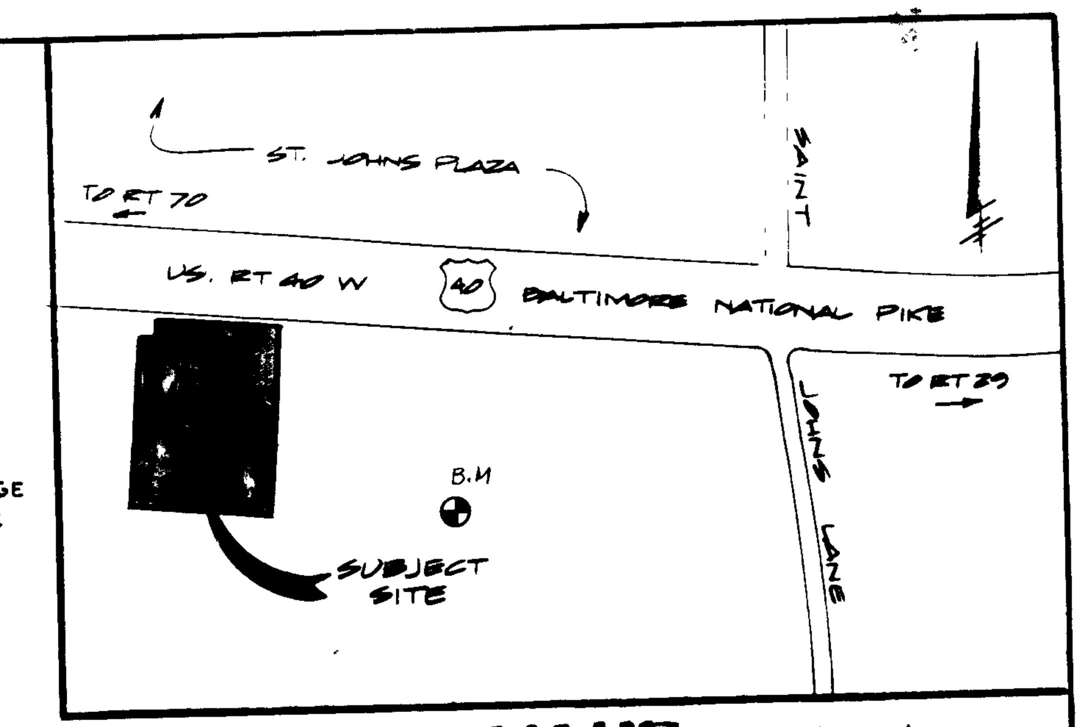
BALTIMORE NATIONAL PIKE State Road

150' R/W

PLAN SCALE 1"=20'

LEGEND

EX CONTOURS	‐ ‐ 100 ‐ ‐
PROP CONTOURS	—— 100 ——
LIMIT OF DISTURBANCE	—— ——
STRAW BALE DIKE	SBD
LIMIT OF PROP DA	● ● ● ● ● ●
EARTH DIKE	➡ ■ ■ ■ ➡
INLET PROTECTION	⊣▭⊢
LIMIT OF EX DA	○ ○ ○ ○ ○ ○ ○
MOUNTABLE BERM	XXXXXXXX



LOCATION MAP SCALE: 1"=200'

BENCHMARK ELEV. 393.25

TOP OF CONCRETE MONUMENT 250' EAST OF SOUTH EAST PROPERTY CORNER.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

Howard County Soil Conservation District

The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.

Approved: Howard Soil Conservation District — Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

The United States Soil Conservation Services — 4/26/88 Date

APPROVED: For public water and public sewerage systems Howard County Health Department.

County Health Officer — 5-2-88 Date

APPROVED: Howard County Office of Planning & Zoning

Director — 5.4.88 Date

Chief Division of Community Planning and Land Development — 5/4/88 Date

APPROVED: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.

Director — 4/28/88 Date

Chief Bureau of Engineering — 4-28-88 Date

ADDRESS CHART

BUILDING #	STREET ADDRESS			
SUBDIVISION NAME			SECT./AREA	LOT/PARCEL #
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST. / CENSUS TRACT
WATER CODE			SEWER CODE	

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS

303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

ENGINEERS CERTIFICATE

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ENGINEER: TAPOBRATA AKRABARTI
REG NO.: 8930 DATE: '87

OWNER/DEVELOPER:

Fairview Federal Savings & Loan Association

9151 Baltimore National Pike/Ellicott City, Maryland 21043-3990
(301) 465-4800

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DEVELOPER: Donald L. Mihalsky, Chairman of Board DATE: 11-18-87

[illegible] PLAN

FAIRVIEW FEDERAL

OFFICE BUILDING

Scale 1"=20'
Howard County, Maryland
SDP 88-117

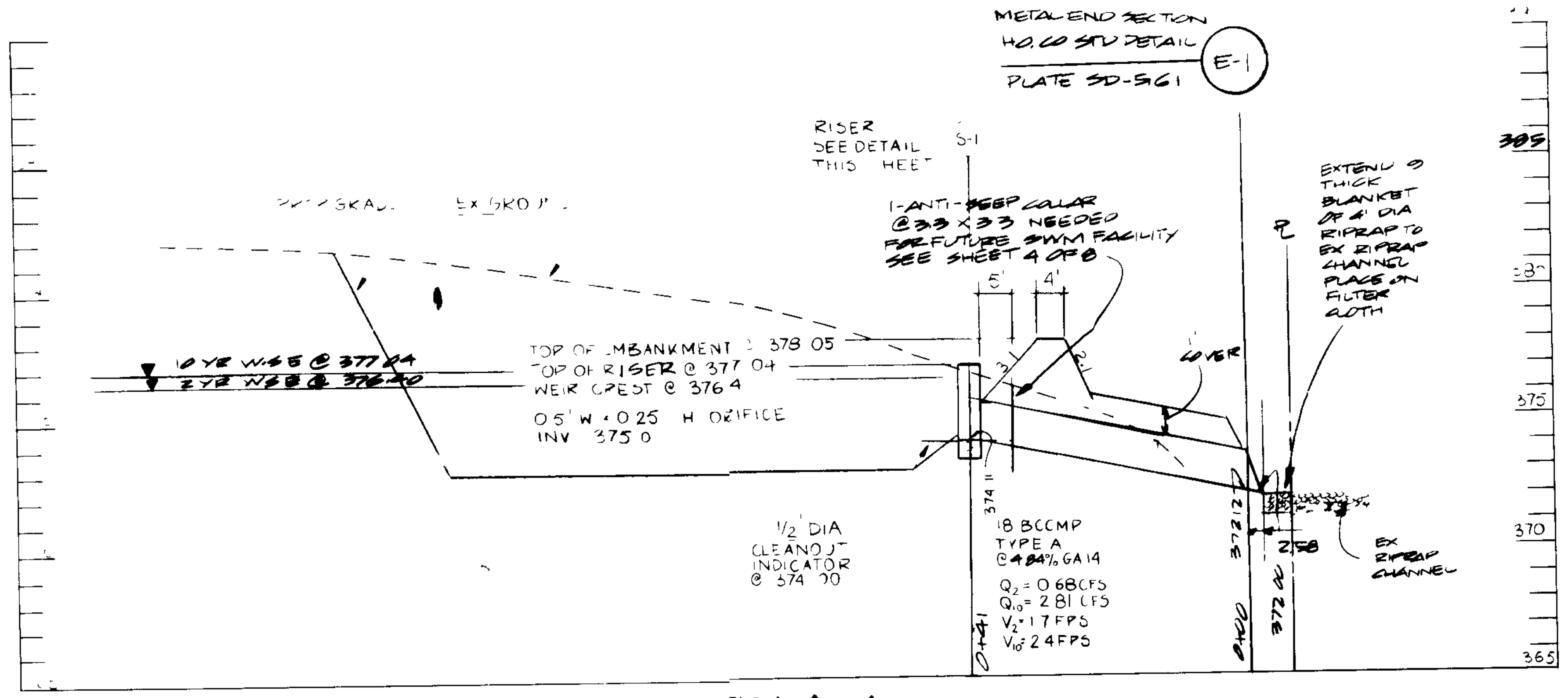
TAX MAP 24 PARCEL 1459

2nd Election District
June 1987
Sheet 5 of 8

SDP-88-117

SEQUENCE OF OPERATIONS

1. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, PERMIT INSPECTOR 48 HOURS PRIOR TO BEGINNING ANY WORK
2. CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES ONLY
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE
4. CONSTRUCT SEDIMENT TRAP
   EXCAVATE SEDIMENT TRAP AREA ACCORDING TO APPROVED SEDIMENT & EROSION CONTROL PLAN
   INSTALL RISER, 18" OUTFALL PIPE WITH ANTI-SEEP COLLAR, METAL END SECTION AND GABIONS
   CONSTRUCT THE EMBANKMENT
5. INSTALL EARTH DIKES AND STRAW BALE DIKES MAINTAINING POSITIVE DRAINAGE TO SEDIMENT TRAP AT ALL TIMES
6. BEGIN MAJOR GRADING AND ADJUST EARTH DIKES AS WORK PROGRESSES MAINTAINING POSITIVE DRAINAGE TO THE SEDIMENT TRAP AT ALL TIMES START INSTALLATION OF RET WALL
7. INSTALL FOUNDATION AND OTHER UTILITIES (EXCEPT STORM DRAINS) CONSTRUCT BUILDING
8. FINE GRADE AND INSTALL CURB AND GUTTER AND LAY STONE SUBBASE IN PARKING AREAS (EXCEPT A TRAP AREA AND AREA AROUND I 2)
9. FINE GRADE ANY REMAINING AREAS AND STABILIZE.
10. AFTER OBTAINING PERMISSION FROM SEDIMENT CONTROL INSPECTOR, CLEAN OUT AND CONVERT SEDIMENT TRAP TO STORM WATER MANAGEMENT FACILITY MAKE THE NECESSARY CHANGES TO THE RELEASE STRUCTURE ACCORDING TO APPROVED STORM WATER MANAGEMENT PLAN COMPLETE INSTALLATION OF RET WALL INSTALL ALL STORM DRAINS PROVIDE INLET PROTECTION INSTALL FILTER CLOTH, GABIONS AT THE END OF INCOMING STORM DRAIN, AND #2 STONE IN STORM WATER MANAGEMENT AREA. CAUTION SHOULD BE EXERCISED DURING CONSTRUCTION SO THAT NO SEDIMENT ENTERS THE STONE STORAGE AREA
11. BACKFILL STORM WATER MANAGEMENT AREA WITH SUITABLE MATERIAL AND INSTALL PAVING
12. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE THE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE.



SECTION A — A
SCALE HORZ 1" = 20' VERT 1" = 5'

SEDIMENT CONTROL NOTES

1) 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)
2) 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.
3) 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.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5) 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 germination and establishment of grasses.
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 Howard County Sediment Control Inspector
7) Site Analysis:
   Total Area of Site 1.2 Acres
   Area Disturbed 1.21 Acres
   Area to be roofed or paved 0.95 Acres
   Area to be vegetatively stabilized 0.26 Acres
   Total Cut 3927 Cu. yds
   Total Fill 790 Cu. yds
   Offsite waste/borrow area location ________
8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector
10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made

Depth Ft	Elev	Sample Blows/6"	Sym	Topsoil 3" Sample Description	Clas		Remarks
		10-15-18	S	LEAN CLAY WITH SAND MOIST BROWN	CL		W 13.4% RESIDUAL
3.5 / 5		10-14-15	S	SILTY SAND WITH QUARTZ FRAGMENTS TRACE ROOT FRAGMENTS MOIST BROWN AND GRAY	SM	A	
		12-20-36	S	DO, NO ROOT FRAGMENTS			
8.5 / 10	370	50-50/2"	▼	DESINTEGRATED ROCKS, MOIST LIGHT GRAY		B	
		100/3"					
15				BOTTOM OF BORING @ 13.8 FT			

SOIL BORING SWB-1

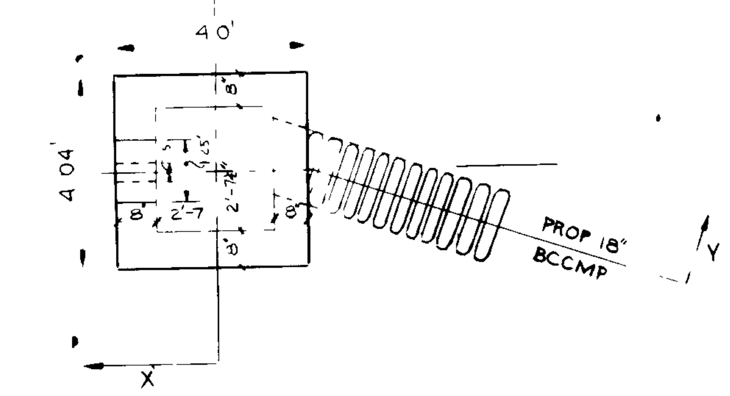
Depth Ft	Elev	Sample Blows/6"	Sym	Topsoil 3" Sample Description	Clas		Remarks
		12-26-33	S	LEAN CLAY WITH SAND, MOIST, BROWN	"CL"	A	RESIDUAL
3.5 / 5	370	7-11-13	S	SILTY SAND MOIST, BROWN	"SM"		
		11-40/6"	S	DESINTEGRATED ROCK MOIST BROWN AND GRAY			
▼ / 10		60-60/3"	S			B	
		100/6"					
15				BOTTOM OF BORING @ 14.0 FT			

SOIL BORING SWB-2

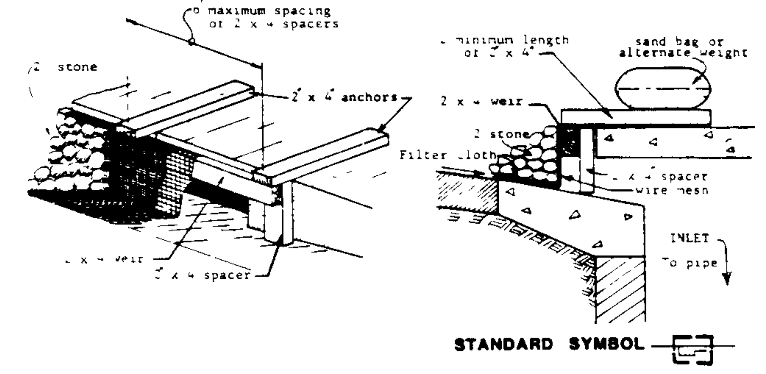
Depth Ft	Elev	Sample Blows/6"	Sym	Topsoil 3" Sample Description	Clas		Remarks
	380	7-24-22	S	LEAN CLAY, WITH SAND, TRACE ROCK FRAGMENTS & WOOD DRY BROWN	"CL"		RESIDUAL W 14.1%
3.5 / 5		7-9-11	S	SILTY SAND, MOIST, BROWN	"SM"	A	
		7-11-17	S				
10	370	13-21-29	S	DO, WITH QUARTZ FRAGMENTS			
13.5 / 15		50-50/2"	S	DESINTEGRATED ROCK MOIST, GRAY		B	
				BOTTOM OF BORING @ 14.2 FT			

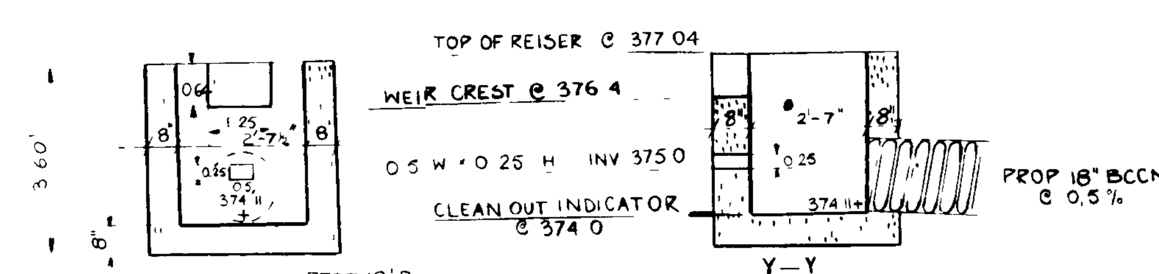
SOIL BORING SWB-3

NOTES.
THIS STRUCTURE SHALL BE BUILT OF REINFORCED CONCRETE
REINFORCEMENT OF THIS STRUCTURE SHALL BE PER HOWARD CO STD DETAIL SD-4.01
PROVIDE TYPICAL MANHOLE STEPS FOR THE STRUCTURE SEE HOWARD CO STD DETAIL G-5.21



CURB INLET PROTECTION DETAIL





RISER DETAIL
NO SCALE

UNLESS OTHERWISE NOTED INLET SHALL BE BUILT UP ACCORDING TO HOWARD CO STD & DETAIL PLATE SD-4.22 SINGLE 'S' INLET

PERMANENT SEEDING NOTES

Seedbed Preparation Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding

Soil Amendments: Use one of the following schedules

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs /1000 square 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 urea form 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 (23lbs /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 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 weeping 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 sod Option (3) Seed with 60 lbs /acre Kentucky 31 tall fescue and mulch with 2 tons/acre well anchored straw

Mulching - Apply 1½ to 2 tons per acre (70 to 90 lbs./1000 sq ft) of unrotted small grain straw immediately after seeding Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 ga /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 seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Seedbed Preparation Loosen upper 3 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 Nov 15 seed with 2½ bu per acre of annual rye (3.2 lbs /1000 sq ft) For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.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

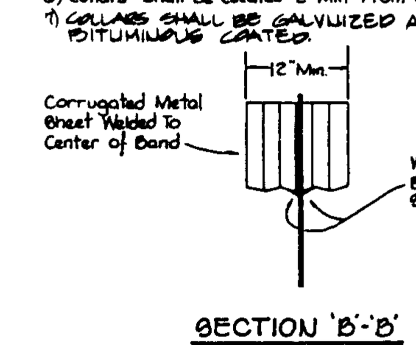
Mulching Apply 1½ to 2 tons per acre (70-90 lbs /1000 sq ft) of unrotted small grain straw immediately after seeding Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5gal /1000 sq ft) of emulsified asphalt on flat areas On slopes, 8 ft or higher, use 348 gal per acre (8 gal /1000 sq ft) for anchoring

GENERAL NOTES

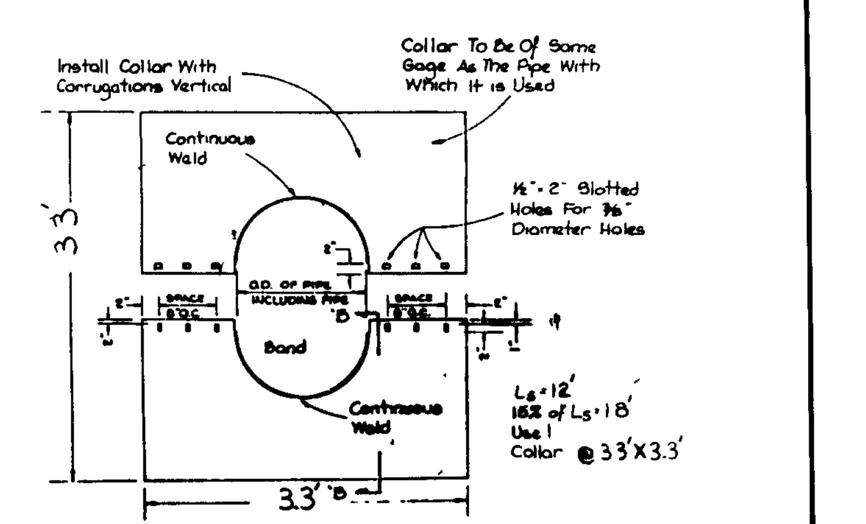
1) Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for standard details and detailed specifications of each practice specified herein
2) With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment Changes in sediment control practices require prior approval of the sediment control inspector and the Baltimore County Soil Conservation District
3) At the end of each working day, all sediment control practices will be inspected and left in operational condition
4) Following initial soil disturbance or redisturbance permanent or temporary stabilization shall be completed within: a) seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and b) fourteen days as to all other disturbed or graded areas on the project site
5) Any change to the grading proposed on this plan requires re-submission to Baltimore County Soil Conservation District for approval
6) Dust control will be provided for all disturbed areas Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control pp 62.01 and 62.02 for acceptable methods and specifications for dust control
7) Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the Baltimore County Soil Conservation District prior to the initiation of the change

NOTES ANTI-SEEP COLLARS

1) All Materials To Be in Accordance With Construction and Construction Material Specifications
2) When Specified on The Plans, Coating of Collars Shall Be in Accordance With Construction and Construction Material Specifications
3) Unassembled Collars Shall Be Marked By Painting or Tagging To Identify Matching Pairs
4) The Lap Between The Two Half Sections And Between The Pipe And Connecting Band Shall Be Caulked With Asphalt Mastic At Time of Installation
5) Each Collar Shall Be Furnished With Two ½" Diameter Rods With Standard Tank Lugs For Connecting Collars To Pipe
6) Collars Shall Be Located 2 Min From All Pipe Joints
7) COLLARS SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED.

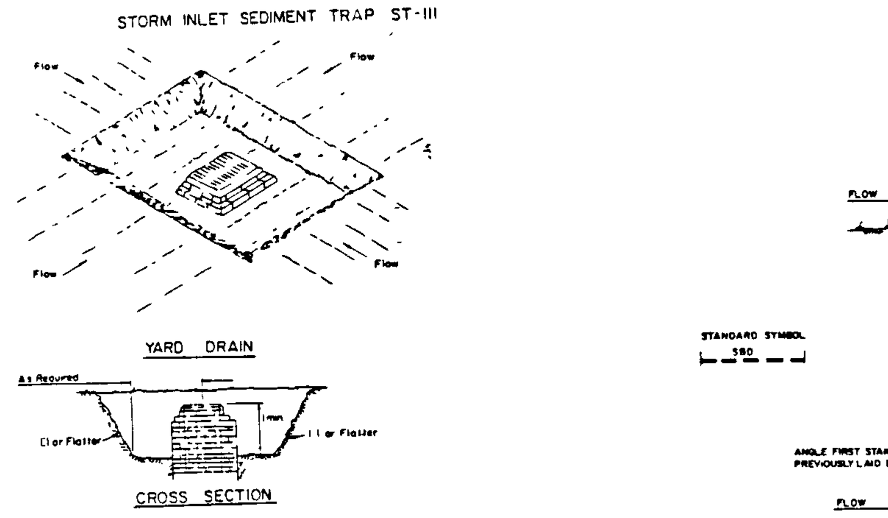


SECTION 'B'-'B'
NO SCALE



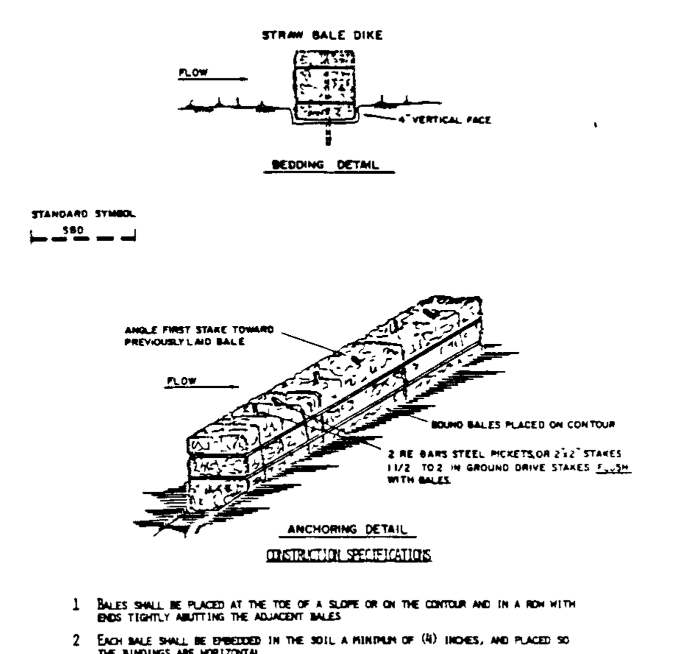
ANTI-SEEP COLLAR DETAIL

STORM INLET SEDIMENT TRAP ST-III



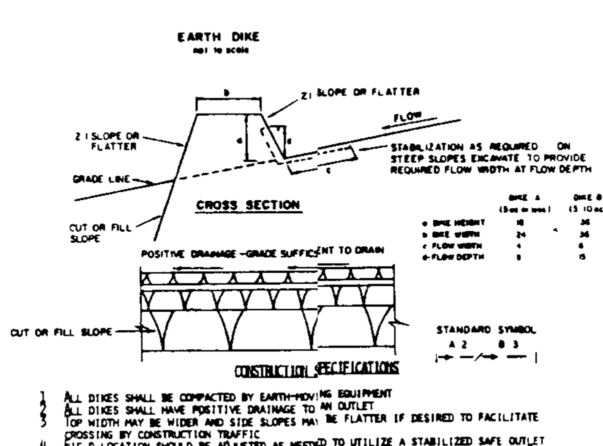
CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ 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
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage
3. The structure shall be inspected after each rain and repairs made as needed
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized
6. All cut slopes shall be 1:1 or flatter



CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL
3. 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
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE



CONSTRUCTION SPECIFICATIONS

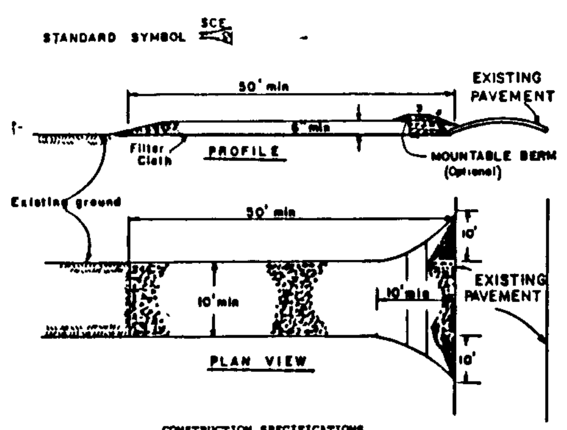
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED
6. STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR, SOD, 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD, 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

STABILIZED CONSTRUCTION ENTRANCE
not to scale

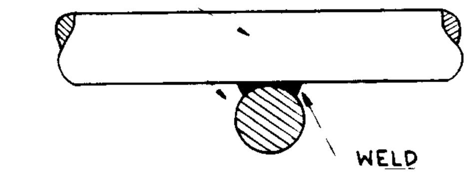


CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply)
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which 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 spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately
8. 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
9. Periodic inspection and needed maintenance shall be provided after each rain

WELDING DETAIL
NO SCALE

REBARS* PLACED @ 90° INTERSECTING ANGLE



*NOTE NO RUST SHALL BE PERMITTED ON REBAR SURFACES TO BE WELDED

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 4-11-88

Reviewed for Howard Soil Conservation District and meets technical requirements.
[signature] 4-26-88
The United States Soil Conservation Services — Date

Howard County Soil Conservation District
The Development is approved for soil erosion & sediment control by the Howard County Soil Conservation District.
Approved: Howard Soil Conservation District — Date

APPROVED: For public water and public sewerage systems Howard County Health Department.
[signature] 5-2-88
County Health Officer — Date

APPROVED: Howard County Office of Planning & Zoning.
[signature] 5.4.88
Director — Date
[signature] 5/4/88
Chief Division of Community Planning and Land Development — Date

APPROVED. For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.
[signature] 4/28/88
Director — Date
[signature] 4.28.88
Chief Bureau of Engineering 4/28/88 — Date

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

ENGINEERS CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT
ENGINEER _[signature]_ DATE 12 ___
REG NO ___

OWNER/DEVELOPER
Fairview Federal
Savings & Loan Association
9151 Baltimore National Pike/Ellicott City, Maryland 21043 3990
(301) 465 4800

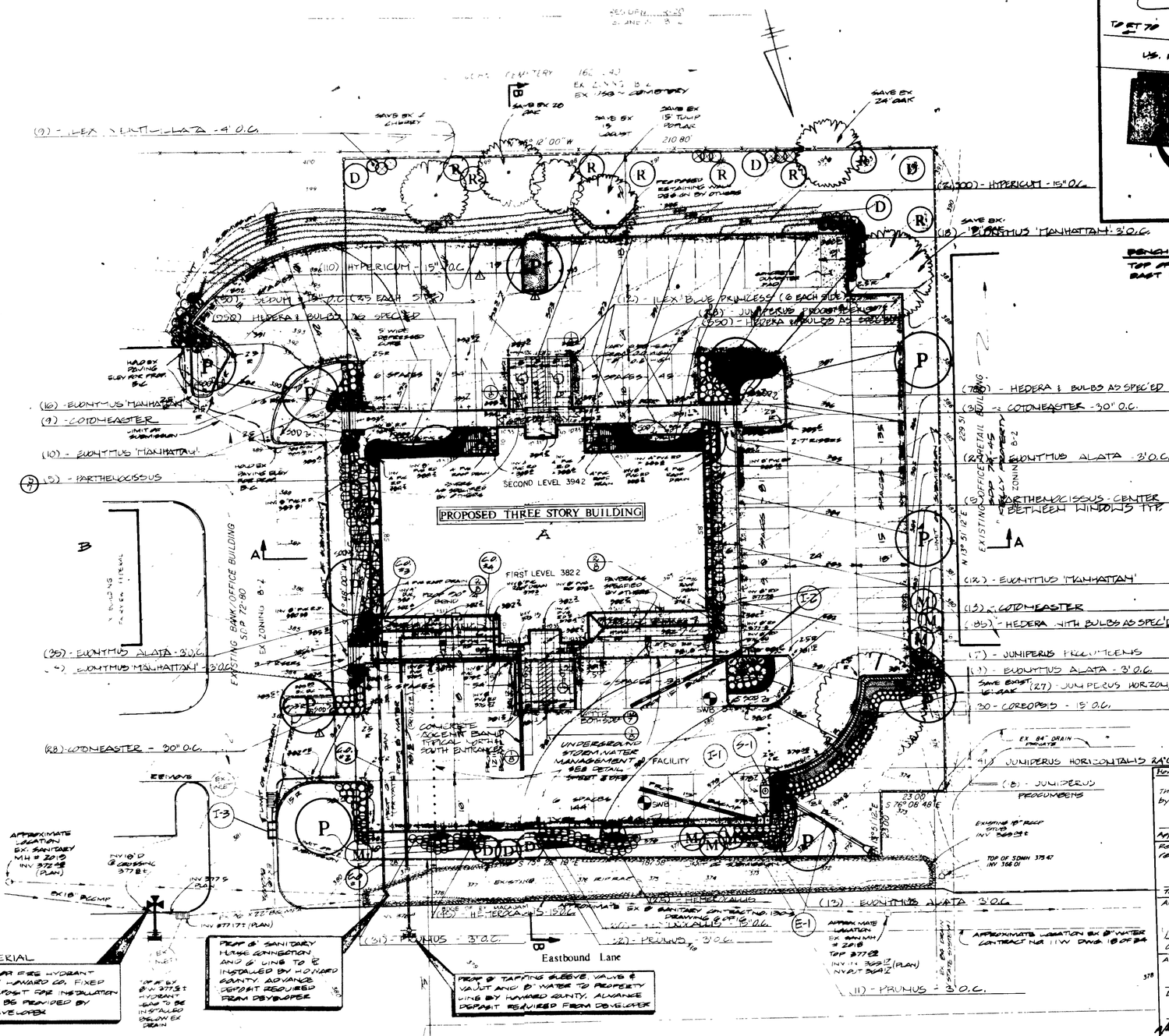
DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED PROGRAM FOR THE CONTROL OF SEDIMENT 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
DEVELOPER _Donald I. Mukelly_ Chairman of Board DATE 11-18-87

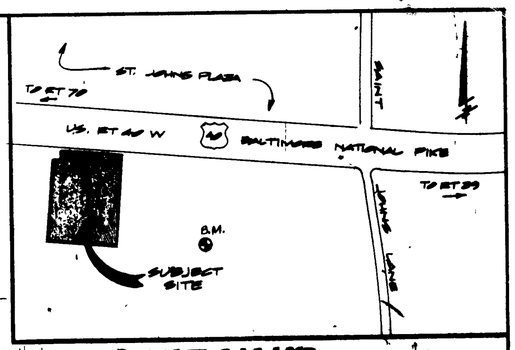
GRADING, SEDIMENT AND EROSION CONTROL PLAN FOR
FAIRVIEW FEDERAL
OFFICE BUILDING
Scale: 1" = 20'
Howard County, Maryland
SDP 88-117
Tax Map 24 Parcel 1097
2nd Election District
June 1987
Sheet 6 of 8

SDP-88-117

PLANT LIST

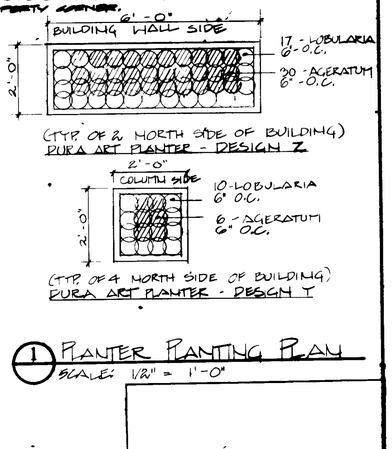
KEY:		PLANT NAME	QTY	SIZE/REMARKS
Trees:	(R)	Cercis canadensis Eastern Redbud	8	6'ht , B&B
	(D)	Cornus florida White Flowering Dogwood	11	6'ht., B&B
	(G)	Gleditsia triacanthos inermis 'Moraine' Thornless Honeylocust	4	3 1/2"cal., B&B
	(M)	Magnolia x soulangiana Saucer Magnolia	7	8'ht., B&B multi-stemmed
	(P)	Platanus x acerifolia 'Bloodgood' Bloodgood London Planetree	9	3 1/2"cal., B&B
Shrubs		Cotoneaster dammeri Bearberry Cotoneaster	81	18"spd., B&B or cont.
		Euonymus kiautschovicus 'Manhattan' Spreading Euonymus	60	24"ht., B&B or cont.
		Juniperus procumbens Jaggerden Juniper	53	18"spd., cont.
		Juniperus horizontalis 'Wiltoni' Blue Rug Juniper	96	12"spd., cont.
		Ilex x meserveae 'Blue Princess' Blue Princess Holly	12	30"ht., B&B or cont., 2 male specimens
		Ilex verticillata Winterberry	9	24"ht., B&B or cont., 2 male specimens
		Prunus laurocerasus 'Otto Luyken' Otto Luyken Cherry Laurel	74	24"ht., B&B or cont.
Perennials:		Coreopsis verticillata 'moonbeam' Moonbeam Coreopsis	130	1at.cont., 15"o.c.
		Hemerocallis x 'Hyperion' Yellow Daylilies	30	2at cont., 2'o.c.
		Sedum spectabile 'Autumn Joy' Autumn Joy Stone Crop Sedum	30	1at.cont., 1'o.c.
Groundcovers:		Hedra helix 'Baltica' Baltic Ivy	4,615	2 1/4"cont. 8"o.c.
Bulbs:		Narcissus pseudonarcissus 'Mount Hood' Mount Hood White Trumpet Daffodil	400	top size bulb
		Tulipa 'West Point' West Point Yellow Lily Tulips	400	top size bulb
		NOTE: Plant bulbs in groups of 5 11 bulbs 4"o.c. in ivy beds. Do not mix tulips and daffodils.		
Vines:		Parthenocissus tricuspidata Boston Ivy	20	2yr., number 1 #4A standard 5 plants east and west side of building
Sod:		Maryland certified Tall Fescue as req. (All locations noted on plan)		LCP#4 sic Section 3 Spec. 8-9-8 7



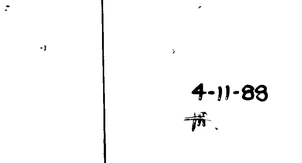


LOCATION MAP SCALE: 1"=2000'

BENCHMARK ELEV. 398.88
TOP OF CONCRETE MONUMENT 350' EAST OF SOUTH EAST PROPERTY CORNER.



(TYP OF 2 NORTH SIDE OF BUILDING)
PURA ART PLANTER - DESIGN Z

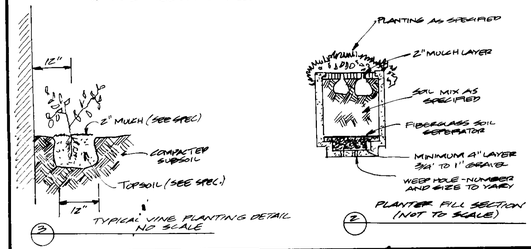


(TYP OF 4 NORTH SIDE OF BUILDING)
PURA ART PLANTER - DESIGN I

1 PLANTER PLANTING PLAN
SCALE: 1/2" = 1'-0"

4-11-88

THE REMAINDER OF THE PLANT MATERIAL SHOWN ON THIS PLAN IS SPECIFIED AS POINT OF ULTIMATE GROWTH. SEE SHEET 8 & SEE REVISION 4 SHEET 8 FOR ADDITIONAL PLANT MATERIAL



TYPICAL VINE PLANTING DETAIL
NO SCALE

PLANTER FILL SECTION
(NOT TO SCALE)

PROP FIRE HYDRANT BY HOWARD CO. FIXED DEPOSIT FOR INSTALLATION TO BE PROVIDED BY DEVELOPER

TOP OF GV @ 377.53 HYDRANT - SEW TO BE INSTALLED BELOW EX DRAIN

PROP 8" SANITARY HOUSE CONNECTION AND 6" LINE TO BE INSTALLED BY HOWARD COUNTY. ADVANCE DEPOSIT REQUIRED FROM DEVELOPER

PROP 8" TAPPING SLEEVE, VALVE & VAULT AND 8" WATER TO PROPERTY LINE BY HOWARD COUNTY. ADVANCE DEPOSIT REQUIRED FROM DEVELOPER

U.S. ROUTE 40 WEST

BALTIMORE NATIONAL PIKE State Road

150' R/W

PLAN SCALE 1"=20'

Howard County Soil Conservation District

The Development is approved for soil erosion and sediment control by the Howard County Soil Conservation District

Approved: Howard Soil Conservation District — Date 4/26/88

Reviewed for Howard Soil Conservation District and meets technical requirements

This United States Soil Conservation Services — Date 4/26/88

APPROVED: For public water and public sewerage systems Howard County Health Department

(Health Officer) — Date 5-2-88

APPROVED: Howard County Office of Planning and Zoning

Director — Date 5/4/88

Chief Division of Community Planning and Land Development — Date 5/4/88

APPROVED: For public water and public sewerage storm drainage systems and public roads, Howard County Department of Public Works

Director — Date 4/26/88

Chief Bureau of Engineering — Date 4-28-88

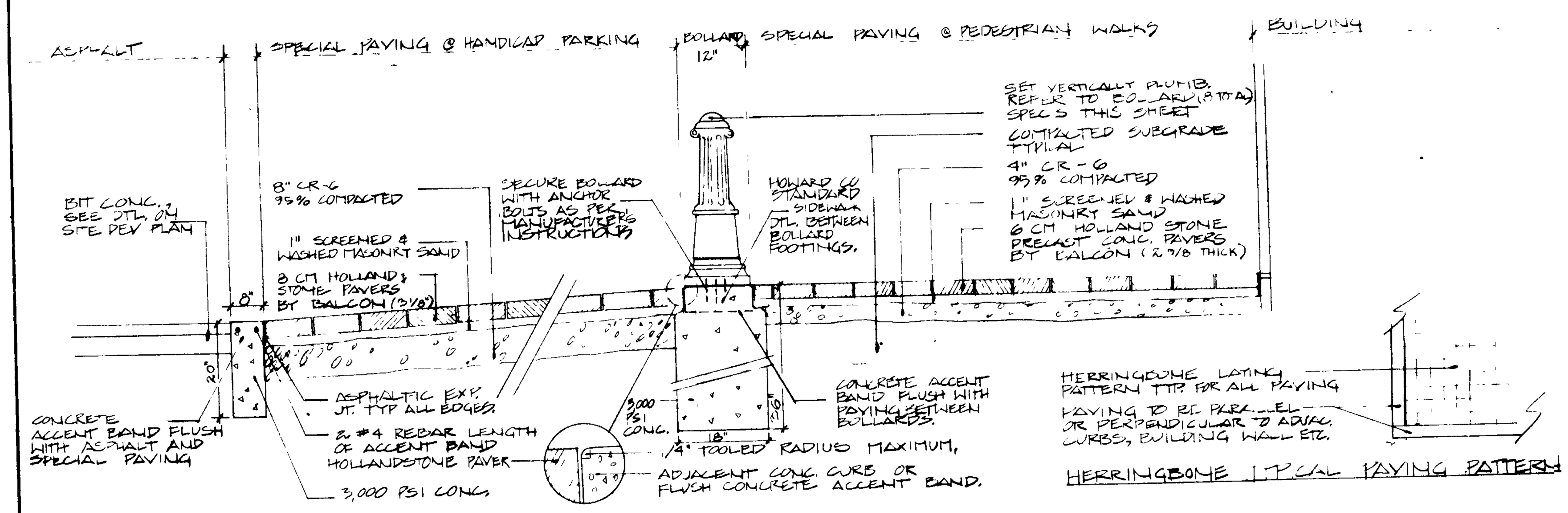
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

OWNER/DEVELOPER:
Fairview Federal Savings & Loan Association
9151 Baltimore National Pike/Ellicott City, Maryland 21043-3980
(301) 465-4800

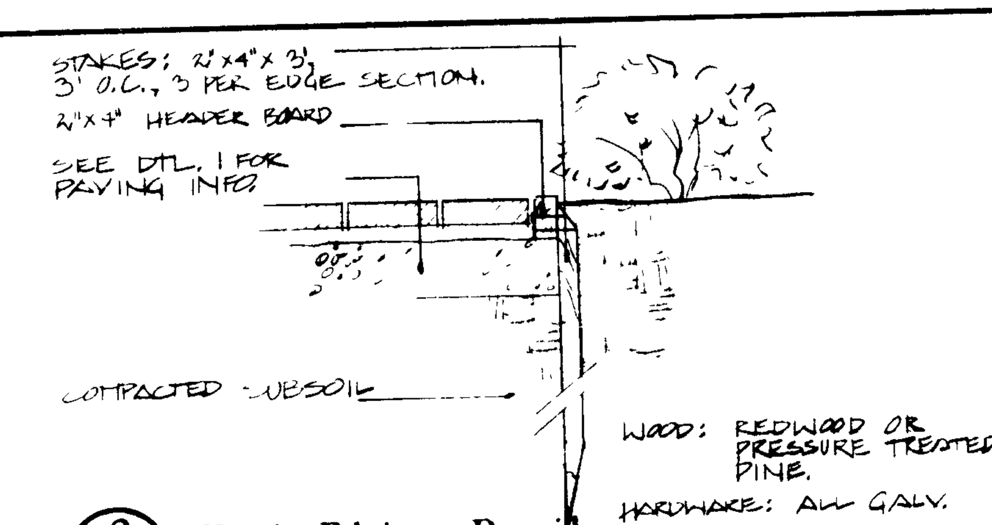
Catherine Mahan & Associates
Landscape Architects
721 St. Paul Street
Suite 204
Baltimore, Maryland
21202 301 576 1214

PLANTING PLAN for
FAIRVIEW FEDERAL
OFFICE BUILDING
Scale: 1"=20'
Howard County, Maryland
SDP 88-117
Tax Map 24 Parcel 189
2nd Election District
Nov. 1987
Sheet 7 of 8

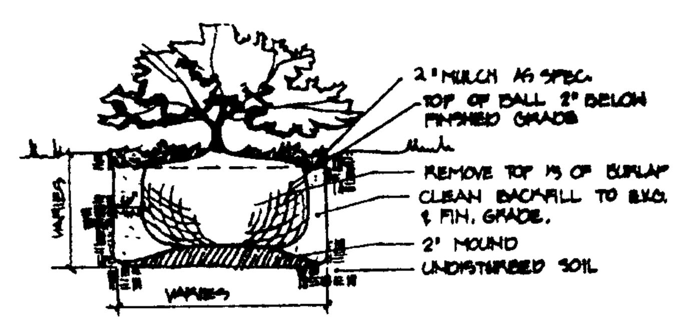
SDP-88-117



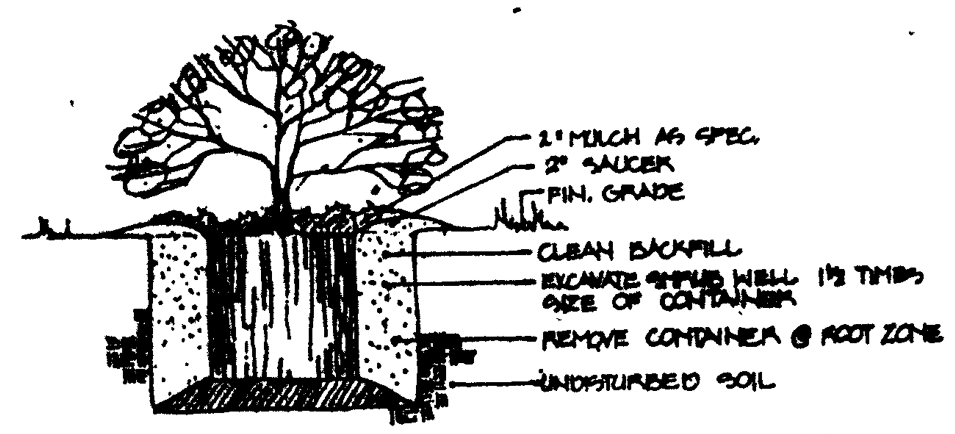
1 Special Paving - Bollard Installation - Typical Section NOTE. REFER TO SPECIFICATIONS BELOW



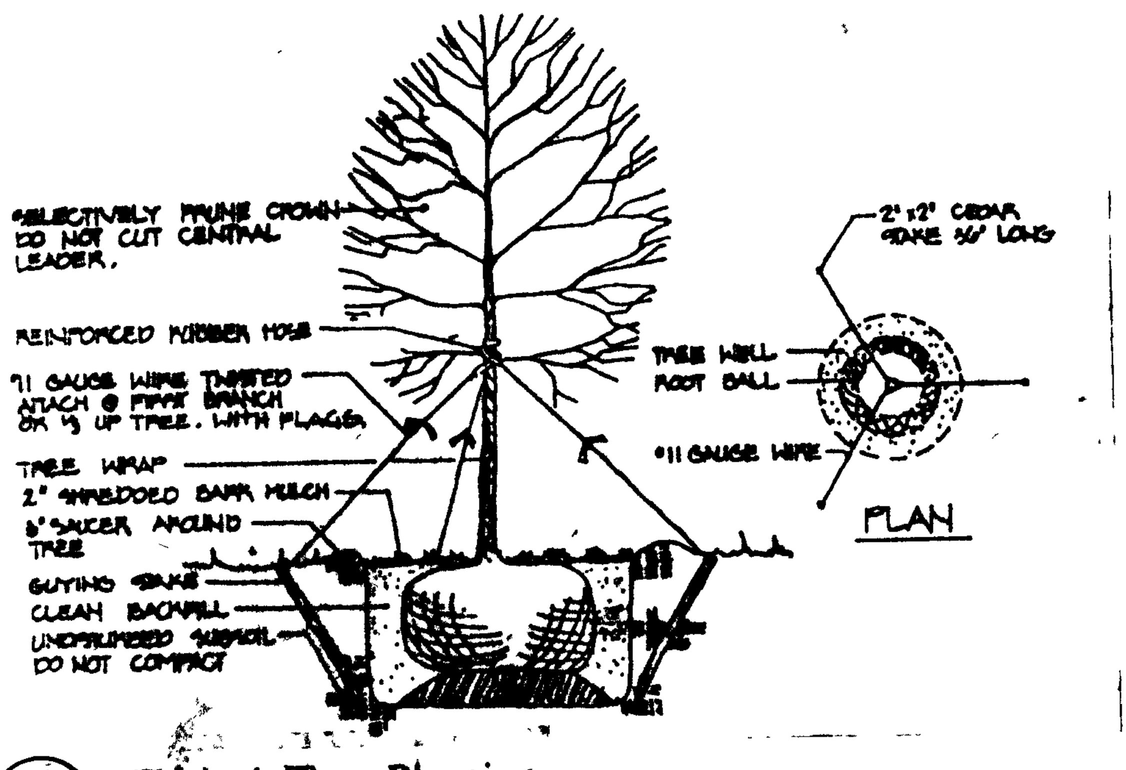
2 Wood Edging Detail



3 Typical Shrub Planting - B & B



4 Typical Shrub Planting - Container



5 Typical Tree Planting

SPECIFICATION

Balcon Special Paving
Revised 11/30/87
SECTION 02518

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Concrete Paver Units
B. Sand Bed and Gravel Base

1.02 SUBMITTALS
A. Color will be selected by Architect from manufacturers available paving stone colors.

1.03 DELIVERY, STORAGE AND HANDLING
A. Deliver and unload paving stones at jobsite in steel strapped cubes in such a manner that no damage occurs to the product.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. BALCON, INC., Pulaski Hwy. & Rossville Blvd., Baltimore MD 21237, Phone (301) 687-8800.
B. INTERLOCKING CONCRETE PAVING STONES. Conform to ASTM C-936 "Standard Specification for Solid Concrete Interlocking Paving Units".
1. Minimum compressive strength of 8,000 P.S.I.
2. Maximum absorption of 5% when tested in accordance with ASTM C-140.
3. Materials:
a. Portland Cement: ASTM C-150, Type II
b. Aggregates: ASTM C-33 (washed, graded sand and limestone, no expanded shale of lightweight aggregates).
C. Design-Holland Stone. Size-as indicated on drawings.

2.02 GRAVEL BASE
A. CR-6 Crusher Run.

2.03 SAND BEDDING BASE
A. Clean washed concrete sand, to ASTM C-33-82 standard.

2.04 SAND FOR JOINT FILL
A. Fine, dry sand free of contaminants which could cause efflorescence or staining.

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify compacted subbase is dry and ready to support pavers and imposed loads.
B. Verify gradients and elevations of base are correct. Refer to site development plan for all grading information.
C. Verify curb or retainment installation.
D. Beginning of installation means acceptance of substrate.

3.02 INSTALLATION
A. CR-6 Aggregate base course as indicated on drawing.
B. Screed bedding course to a loose, uniform thickness of 1" to 1 1/2". Take care to ensure bedding base is loose and not disturbed.
C. Ensure pavers are free of foreign materials before installation.
D. Start installation from a corner or straight edge and proceed forward over the undisturbed sand bedding base.
E. Cut paving stone using either a double bladed splitter or a masonry saw.
F. Install paving stones hand tight and level on undisturbed sand bedding course. Use string lines to hold herringbone pattern lines true.
G. Ensure paving is plumb, level and true to line and grade; shall be installed to properly coincide and align with adjacent work and elevations.
H. Use a plate vibrator to compact stones into sand bedding base, forcing sand into bottom joints between the stones.
I. Sweep sand fill into the joints until joints are filled flush with the top of the pvaing stones. Sweep excess sand clear from surface. Joints not to exceed 1/8".
J. The completed paving stone installation should be cleaned and washed down to provide a finished installation.

PLANTING
CONSTRUCTION & GENERAL NOTES

- The approved specifications for landscape planting shall be the "Landscape Specifications Guidelines for Baltimore-Washington Metropolitan Areas" prepared by the Landscape Contractors Association of Metropolitan Washington (LCAMW), and the American Society of Landscape Architects, (301) 424-7970. The contractor shall be responsible for obtaining a copy of the specifications and complying with the following specification sections:

All projects to follow LCAMW specification sections 1, 1.0 through 3.17, which cover General Conditions, Plant Materials, and Products.

4.0 PLANTING PROCEDURES FOR TREES
4.1 PREPARING TREE PIT
4.2 PLACING TREE IN PIT
4.3 BACKFILLING TREE PIT
4.4 PRUNING DETAIL FOR B&B TREES

5.0 BRACING PROCEDURES
5.1 TREES BRACED BY STAKING
5.2 TYPICAL UPRIGHT STAKING DETAIL
5.7 TREE SUPPORT SCHEDULE

6.0 PLANTING PROCEDURES FOR SHRUBS
6.1 PLANTING SHRUBS
6.2 PLANTING A SHRUB MASS OR HEDGE

7.0 PLANTING PROCEDURES FOR GROUND COVER
7.1 PREPARING GROUND COVER BED
7.2 PLANTING GROUND COVER

8.0 PLANTING PROCEDURES FOR PERENNIALS
8.1 PREPARATION OF THE PLANTING BED
8.2 PLANTING PERENNIALS
8.3 REQUIREMENTS OF POPULAR PERENNIALS

12.0 PLANTING ABOVE STRUCTURE
12.1 SCOPE OF WORK
12.2 RELATED WORK
12.3 TESTING
12.9 EXECUTION

14.0 TREE PRESERVATION
14.1 GENERAL CONDITIONS
14.2 SCOPE OF WORK
14.3 CLASSIFICATIONS
14.4 MATERIALS
14.5 PROCEDURE
14.6 CONSTRUCTION

- The approved specifications for [illegible] (this refers [illegible]) to pruning and shaping of existing vegetation to [illegible] follow the National Arborist Association Standards.

- All plant material shall conform to the sizes given in the plant list and shall be nursery grown in accordance with the "American Standards for Nursery Stock" latest edition prepared by the American Association of Nurserymen, 230 Southern Building, Washington D.C. 20005.

- All work specified herein shall be performed by qualified personnel experienced in this type of work. The contractor shall be a member of one of the following organizations:
  - Associated Landscape Contractors of America
  - American Association of Nurserymen
  - or, a member of the Nurserymen's association of the state in which the work is being performed

- Contractor must verify the correct location of any existing utilities which are underground, prior to plant installation. The contractor shall call Miss Utility [illegible] A minimum of 48 hours prior to construction.

- All dimensions are to be verified in the field. Any [illegible] deviation from [illegible] shall be brought to the attention of the Landscape Architect in writing prior to start of the work.

- [illegible]

- [illegible] and approved by the Landscape Architect before installation.

- [illegible] application of [illegible] instructions. This backfill mixture [illegible] over LCAMW standard specifications.

- All plant beds shall be mulched with a 3" layer of mulch within two days after planting. This shall be shredded hardwood bark and shall cover entirely the planting bed. The edge of the plant bed shall be constructed so that the mulch level drops 2" below the adjacent grade.

- Existing work of every description which may become damaged during construction shall be replaced or repaired with materials to match those previously in place. Materials shall be supplied by the contractor at no cost to the owner and to the satisfaction of the Landscape Architect.

- All plants shall be guaranteed healthy and alive at the termination of the one-year maintenance and warranty period. There will be a one-time replacement policy at no additional cost to the owner. Replacements shall be of the same size and species. Upon completion of the plant installation, the contractor shall notify the landscape architect and the owner for a final inspection. The contractor shall correct all problems identified in writing by the owner or the landscape architect. The one year maintenance and warranty period shall begin upon final acceptance.

ALTERNATE NO. 1

ALTERNATE NO. 1 Contractor to provide an additional price for the following work:

Shrubs:	Euonymus alata 'compacta' Dwarf Winged Euonymus	64	[illegible] or cont.
Groundcover: [redacted]	Hypericum calycinum St. John's Wort	2,500	2 1/4" cont., 12" o.c.
	NOTE: The groundcovers specified on this project are available in large quantities at Classic Groundcovers Inc. 1-800-[illegible].		
Annuals:	Ageratum houstonianum Blue Ageratum	84	4" pots, see detail for spacing
	Lobularia maritima White Sweet Alyssum	74	4" pots, see detail for spacing

NOTE TO OWNER: Annual flowers should be replaced each spring [illegible] and May 15th. [illegible] through the spring, summer, and fall.

Planters: As manufactured by: [illegible] Fontana, CA [illegible]

QUANTITY | STYLE NUMBER

[illegible]

Howard

The Development is approved for soil erosion and sediment by the Howard County Soil Conservation District

Approved Howard Soil Conservation District — Date 1/26/88

Reviewed for Howard Soil Conservation District and meets technical requirements

The United States Soil Conservation Services — Date 4/26/88

APPROVED: For public water and public sewerage systems Howard County Health Department

County Health Officer — Date 5-2-88

APPROVED: Howard County Office of Planning and Zoning

Director — Date 5.4.88

Chief, Division of Community Planning and Land Development — Date 5/4/88

APPROVED: For public water and public sewerage storm drainage systems and public roads, Howard County Department of public works

Director — Date 4-28-88

Chief Bureau of Engineering — Date 4.28.88

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-11-88

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

REVISION ⚠1 2/9/88
(PLANT MATERIAL ADDITIONS TO PLAN)

KEY	NAME	QUANT	SIZE/REMARKS
(P)	PLANATUS X ACERIFOLIA BLOODGOOD PLANETREE	2	3 1/2" CAL B&B
	HYPERCIUM CALYCINUM ST JOHNS WORT	110	2 1/4" CONT 15" OC

OWNER/DEVELOPER:
Fairview Federal
Savings & Loan Association
9151 Baltimore National Pike, Ellicott City, Maryland 21043
(301) [illegible]

Mahan & Associates Landscape Architects

SDP-88-117