LANDSCAPING LEGEND

INDICATES REGENT SCHOLARTREE (SOPORA JAPONICA REGENT) 1½" Min Caliper; 8-10' Height 24" Ball Min Place As Shown

INDICATES CALLERY PEAR (PYRUS CALLEYANA BRADFORD) 2½ Min Caliper; 7-8 Height 24" BALL MIN PLACE AS SHOWN

INDICATES WHITE PINE (PINUS STROBUS) 2½" Min Caliper; 7-8 Height 24" Ball Min. PLACE AS SHOWN

NOTE: THE OWNER SHALL MAKE THE FINAL DECISION ON THE TYPE OF LANDSCAPING TO BE INSTALLED

SITE DATA

TOTAL AREA OF TRACT = 810 AC±
AREA OF SUBMITTAL = 810 AC±
AREA OF DISTURBANCE = 550 AC±
AREA TO BE VEGETATIVELY STABILIZED = 2.55 AC±
FLOOR AREA TO SITE RATIO
60000 SF / 810 AC± = 138 AC± / 810 AC± = 17% of Site
TOTAL NO. OF EMPLOYEES = 25
15 OFFICE, 10 WAREHOUSE
BUILDING USE - WAREHOUSE WITH OFFICE; NO RETAIL SALES AREAS OR MANUFACTURING USES WITHOUT PRIOR APPROVAL BY THE OFFICE OF PLANNING AND ZONING
PARKING SPACES REQUIRED = 25
20 @ 2/1000 SF Office (9,600 SF)
5 @ 1/2 Employees (Warehouse)
PARKING SPACES PROVIDED = 65
25 Employee, (4 Handicapped) 40 Visitor
61 @ 9'x18' Std, 4 @ 12'x18' Hdc

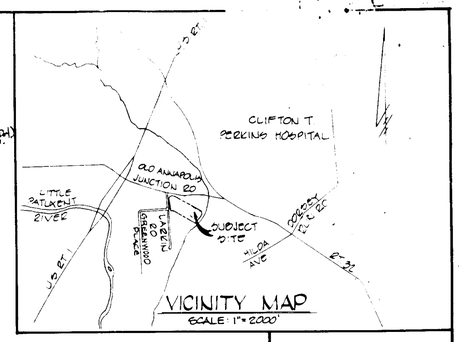
% BUILDING COVERAGE
% PAVING = 37 %
% OPEN SPACE = 63%
TAX MAP No. 47+48
TITLE REFERENCE:
Record Plat # 4773 Fs # 80-51
CORRIDOR INDUSTRIAL PARK, PARCEL P-1
EXISTING ZONING = M-2

GENERAL NOTES

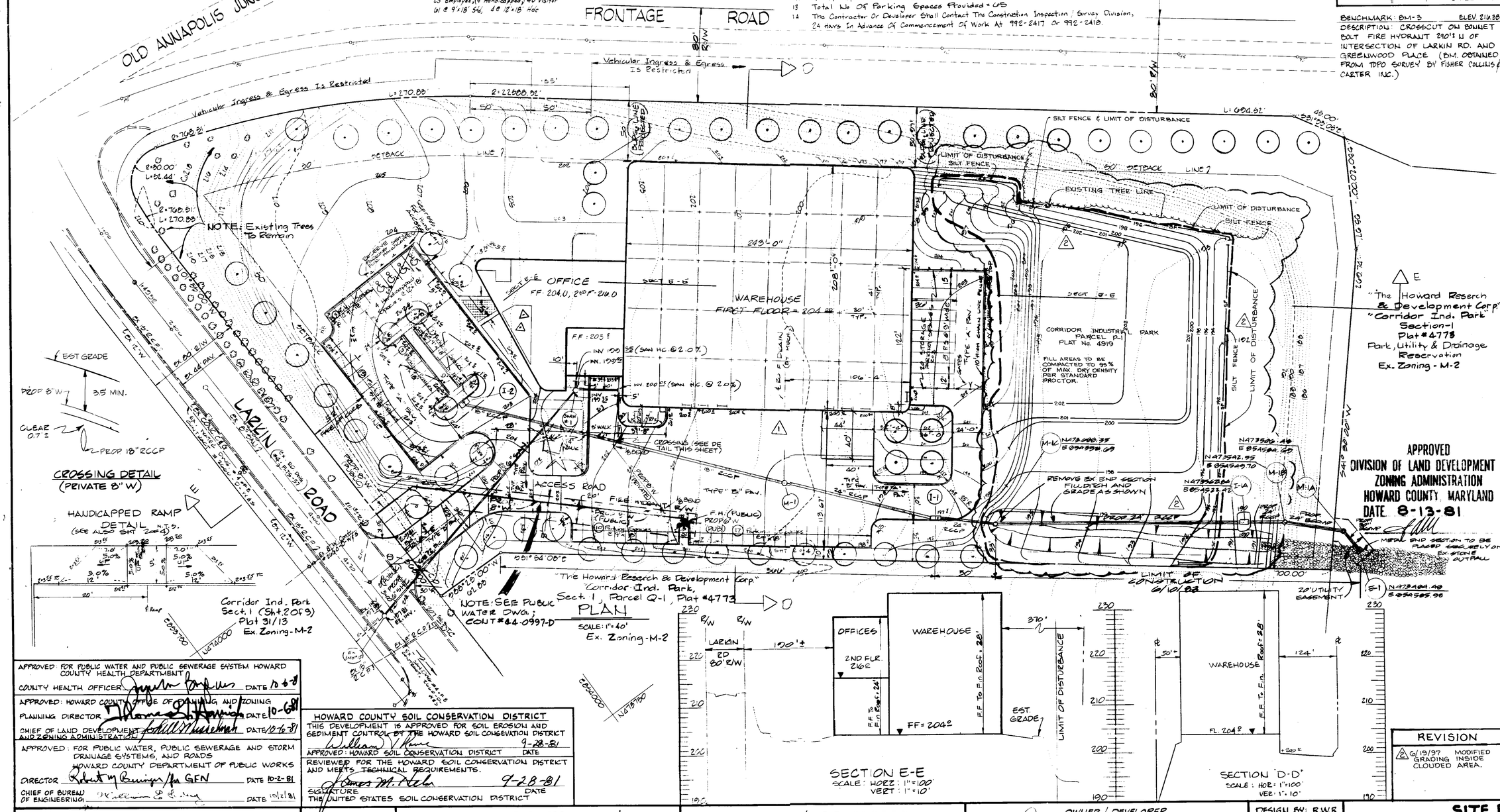
1. Maximum Building Height = 50
2. All Areas Not Being Paved Or Receiving Building Coverage Shall Be Stabilized In Accordance With The Plans Approved By The Howard Soil Conservation District.
3. Storm Water Management For This Site Is Provided Further Downstream By Corridor Ind Pk
4. Any Damage To Public Right-Of-Ways And Or Adjacent Properties Shall Be Repaired Immediately At The Contractors Expense
5. The Contractor Shall Maintain At Least A 2' Level Bench Behind All Curb & Gutter In Fill Areas
6. The Contractor Shall Varify All Existing Utilities To His Own Satisfaction Before Starting Const.
7. All Slopes Shall Be 3:1 Or Flatter
8. All Work Shall Be Done In Accordance With Howard Co. Std Specificatio s And Details For Construction, Or As Shown On These Plans.
9. The Contractor Shall Notify The C&P Telephone Co And The Gas & Electric Co. Five Days Prior To Starting Work Shown On These Plans By Calling "Miss Utility" Call Collect 1-559-0100
10. For Details Of Ramps & Signs For The Handicapped See The Maryland Bldg Code For The Handicapped And Aged & Detailed On Sht 2 of 4
11. The Contractor Shall Maintain A Minimum Of 3.5' Cover Over All Prop Water Lines.
12. All Rip-Rap Shall Be Placed On Filter Cloth
13. Total No Of Parking Spaces Provided = 65
14. The Contractor Or Developer Shall Contact The Construction Inspection / Survey Division, 24 Hours In Advance Of Commencement Of Work At 992-2417 Or 992-2418.

LEGEND

INDICATES STANDARD PAVING SECTION
INDICATES CONC PAVING (Walks = 4' Thick, See Sht 2 of 4 For Drill Rod Det. Typ Joints 20' Max, 25' Max Max Min.)
INDICATES STD CURB & GUTTER
INDICATES REVERSE SLOPE C&G
INDICATES EXIST COUTOURS
INDICATES PROPOSED CONTOURS



BENCHMARK: BM-3 ELEV 216.38
DESCRIPTION: CROSSCUT ON BONNET BOLT FIRE HYDRAULT 290'± N OF INTERSECTION OF LARKIN RD. AND GREENWOOD PLACE (BM. OBTAINED FROM TOPO SURVEY BY FISHER COLLILS & CARTER INC.)



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 10-6-81
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 10-6-81
CHIEF OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 10-6-81
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS, AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-2-81
CHIEF OF BUREAU OF ENGINEERING — DATE 10/2/81

HOWARD COUNTY SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: HOWARD SOIL CONSERVATION DISTRICT — DATE 9-28-81
REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE — DATE 9-28-81
THE UNITED STATES SOIL CONSERVATION DISTRICT

Mueller Associates, Inc.
Mechanical & Electrical Engineers

George Evans Associates, Inc.
Structural Engineers

Richter Cornbrooks Gribble, Inc.
Architects/Planners
2120 North Charles Street
Baltimore, Maryland 21218

OFFICES AND WAREHOUSE

FOR

SUBARU ATLANTIC, INC.

COLUMBIA, MARYLAND

Revisions:

No.	Date	

Date | Job No.

Drawing No. CE-1

SDP-81-182

REVISION
2 6/19/97 MODIFIED GRADING INSIDE CLOUDED AREA.

GEORGE WILLIAM. STEPHENS JR. AND ASSOCIATES INC.
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

ENGINEER
Tapobrata Chakrabarti — 8930 — 6-15-81
TAPOBRATA CHAKRABARTI — REG. No — DATE

OWNER / DEVELOPER
SAI REALTY INC.
P.O. BOX 508 ~~9050 RED BRANCH ROAD~~
OAKLAND RIDGE INDUSTRIAL PARK
COLUMBIA, MARYLAND 21045
730 - 9003

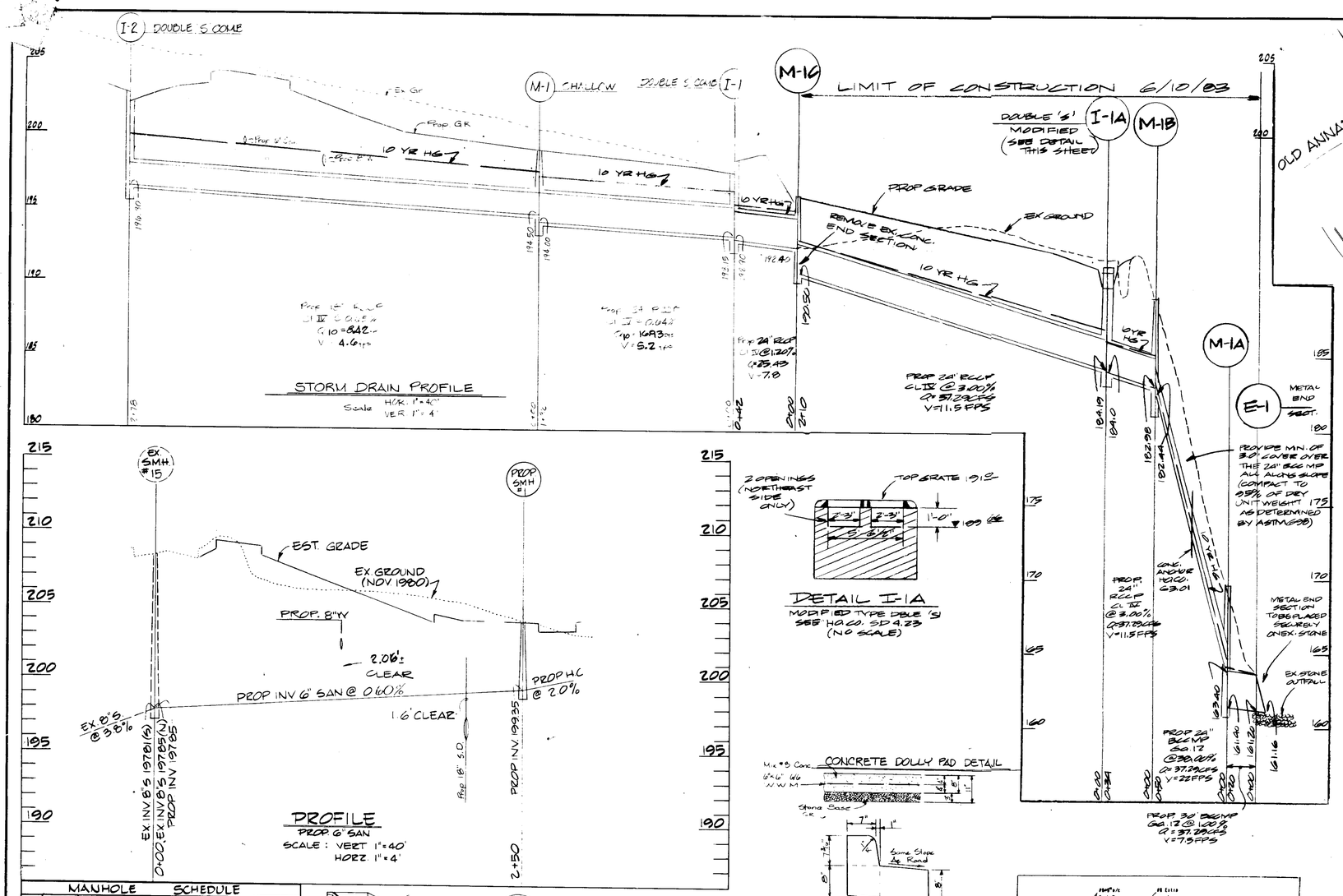
OWNER / DEVELOPER
BY: — DATE: 6-16-81
TITLE: Executive Vice Pres.
SAI REALTY INC.
9050 RED BRANCH RD.
COLUMBIA, MD. 21045 730-9003

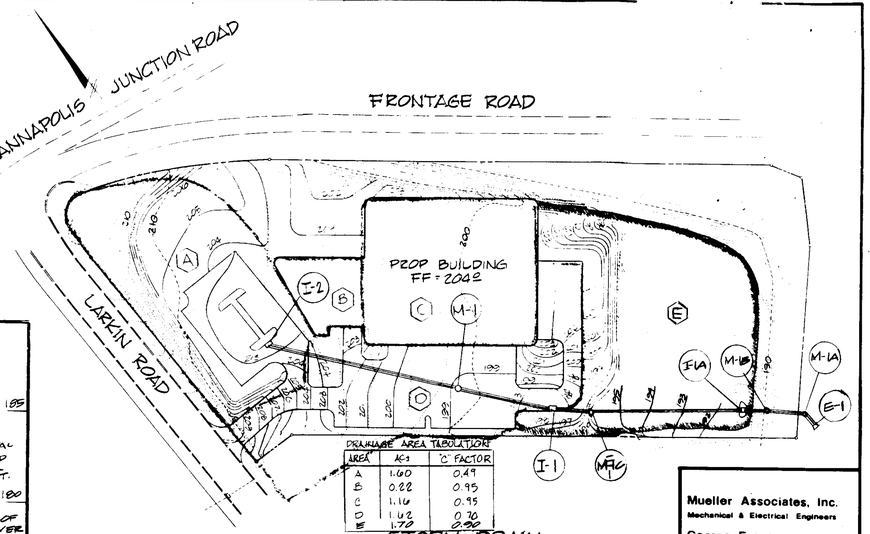
DESIGN BY: R.W.R
DRAWN BY: D.L.C
CHECKED BY: T.C

REVISION
6/10/03 ADDED ADDITIONAL STORM DRAIN RUN FROM M-16 TO E-1
1 6-16-98 BY GWS REMOVED ISLAND, REPLACED WITH P-2 PAVING

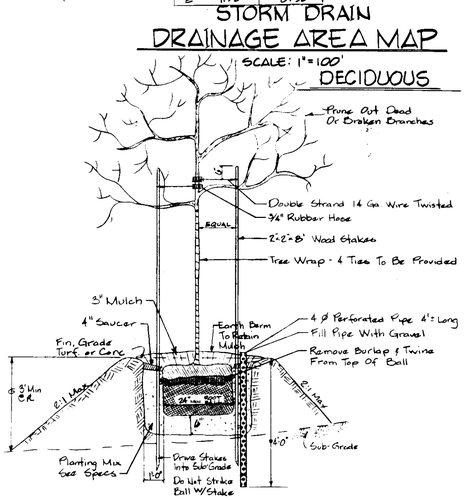
SITE PLAN
PROPOSED OFFICE & WAREHOUSE
CORRIDOR INDUSTRIAL PARK
SECTION-1, PARCEL P-1
6TH Election Dist., Howard Co. Md — Tax Maps 47+48
Scale: As Shown — Date: June 10, 1981
P.N. 4506 — Sheet 1 of 4

SDP-81-182

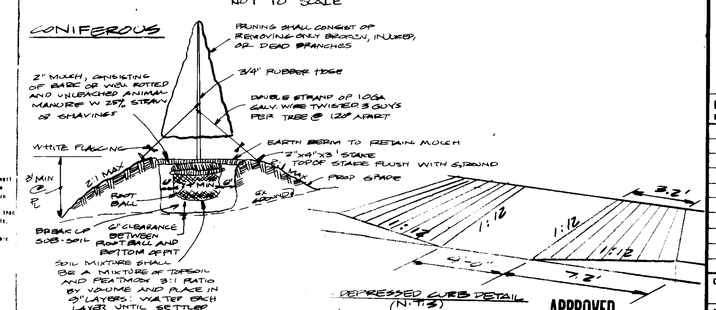




DRAINAGE AREA TABULATION		
AREA	AC.	'C' FACTOR
A	1.60	0.49
B	0.22	0.95
C	1.16	0.95
D	1.62	0.70
E	1.70	0.50



LANDSCAPING PLANTING DETAIL
NOT TO SCALE

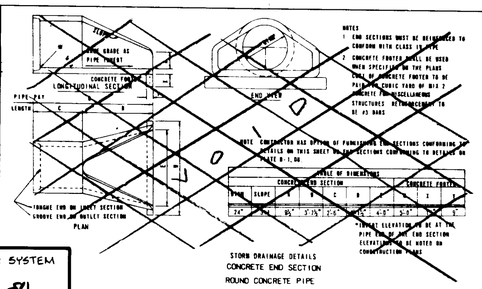


DEPRESSED CURB DETAIL (N.T.S.)
(SEE SHT 1 OF 4)

MANHOLE SCHEDULE						
Nº	TYPE	TOP EL.	INV. IN	INV. OUT	REMARKS
EXH	STD.	203.8	199.45	199.35	HO.CO. STD 5.7
M-1	SHALLOW	198.85	199.50	199.00	DETAIL-THIS SHEET
M-1A	STD.	SET IN FIELD	192.30	190.50	HO.CO. 65.01
M-1B	STD.	SET IN FIELD	192.98	182.44	HO.CO. 65.01
M-1C	STD.	SET IN FIELD	163.40	161.90	HO.CO 65.01

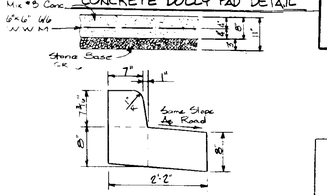
INLET SCHEDULE						
Nº	TYPE	TOP GRATE	INV. IN	INV. OUT	REMARKS
I-1	DB. 'S' SINGLE	197.50	193.15	192.90	HO.CO. STD. D-99
I-2	DB. 'S' SINGLE	202.00	—	190.50	. . . . .
I-1A	DB. 'S' MODIFIED	191.00	184.19	184.0	SEE DETAILS THIS SHT.

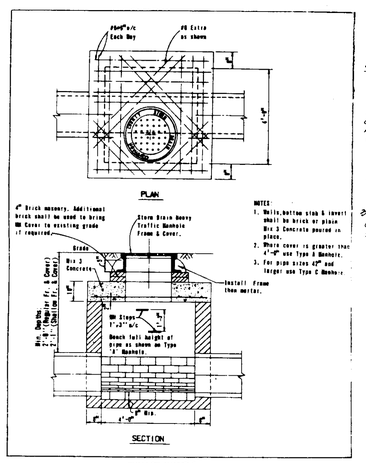
STRUCTURE SCHEDULE				
Nº	TYPE	INV. IN	INV. OUT	REMARKS
E-1	METAL END SECT.	161.20	161.16	HO.CO STD 505.61 (SEE DETAIL THIS SHT.)



NOTES
1. END SECTIONS MUST BE DESIGNED TO CONFORM WITH CLASS IV PIPE
2. CONCRETE FOOTER SHALL BE USED UNLESS SPECIFIED ON THE PLANS. USE OF CONCRETE FOOTER TO BE PAID FOR CUBIC YARD OF BID 2 CONCRETE FOOTER
3. STRUCTURES REINFORCED TO BE #3 BARS
4. CONTRACTOR HAS OPTION OF FURNISHING END SECTIONS CONFORMING TO DETAILS ON THIS SHEET OR END SECTIONS CONFORMING TO DETAILS ON PLATE D-1.00
5. *INVERT ELEVATION TO BE AT THE PIPE INVERT. THE END SECTION ELEVATION TO BE NOTED ON CONSTRUCTION PLANS

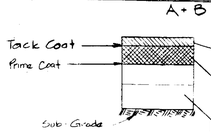
STORM DRAINAGE DETAILS
CONCRETE END SECTION
ROUND CONCRETE PIPE
NOT TO SCALE





NOTES:
1. Walls, bottom slab & invert shall be brick or plain Mix 3 Concrete poured in place.
2. Where cover is greater than 4'-0" use Type 2 Manhole.
3. For pipe sizes 42" and larger use Type C Manhole.

PAVING SECTION
A + B



PAVING TYPE	A	B
Bit. Conc. Surface Course Bond SU	1"	1½"
Bit. Conc. Binder Course Bond BI	2"	2½"
CR-6 or CR 4.67 Base Course (Placed in Two Layers)	5"	8"
HOWARD CO. PAV. SECT. NO.	P-1	P-2

NOTE: See Howard. Co. Std. R-2.01

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 10-6-81

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 10-6-81
CHIEF OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 10-6-81

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS, AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-2-81
CHIEF OF ENGINEERING — DATE 10/2/81

HOWARD COUNTY SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: HOWARD SOIL CONSERVATION DISTRICT — DATE 9-28-81
REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE — DATE 9-28-81
THE UNITED STATES SOIL CONSERVATION DISTRICT

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-13-81

Mueller Associates, Inc.
Mechanical & Electrical Engineers
George Evans Associates, Inc.
Structural Engineers

Richter Cornbrooks Gribble, Inc.
Architects/Planners
2120 North Charles Street
Baltimore, Maryland 21218

OFFICES AND WAREHOUSE
FOR
SUBARU ATLANTIC, INC.
COLUMBIA, MARYLAND

Revisions:

No.	Date

Date | Job No.
Drawing No. CE-2

SDP-81-182

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC.
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

ENGINEER
Tapobrata Chakrabarti — 8930 — 6-15-81
TAPOBRATA CHAKRABARTI — REG. Nº — DATE

OWNER / DEVELOPER
SAI REALTY INC.
P.O. BOX 308 ~~9050 RED BRANCH ROAD~~
OAKLAND RIDGE INDUSTRIAL PARK
COLUMBIA, MARYLAND 21045
730-9003

OWNER / DEVELOPER
BY: — DATE: 6-16-81
TITLE: Executive Vice Pres.
SAI REALTY INC.
9050 RED BRANCH RD.
COLUMBIA, MD. 21045 PHONE: 730-9003

DESIGN BY: R.W.R.
DRAWN BY: D.L.C
CHECKED BY: T.C

REVISION
9/10/83 - ADDED ADDITIONAL STORM DRAIN FROM M-1C TO E-1. REVISED SCHEDULES, ADDED DETAIL I-1A REV. D.A. MAP

PROFILES & DETAILS
PROPOSED OFFICE & WAREHOUSE
CORRIDOR INDUSTRIAL PARK
SECTION-1, PARCEL P-1
6TH Election Dist., Howard Co. Md
Tax Maps 47/48
Scale As Shown
Date June 10, 1981
PN 4502
Sheet 2 of 4

SDP-81-182

CONSTRUCTION SEQUENCE

1. [Notify] THE HOWARD CO DEPARTMENT OF INSPECTIONS & PERMITS INSPECTOR [24] HRS PRIOR TO STARTING ANY WORK.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE. (S.C.E.)
3. INSTALL DIVERSION DIKES, SILT FENCES, R.O.S.T. & OUTFALL DITCH (PLACE SILT FENCE AT OUTFALL OF DITCH UNTIL DITCH HAS BEEN STABILIZED WITH SOD.)
4. START MAJOR GRADING MAINTAINING POSITIVE DRAINAGE TO THE TRAP
5. INSTALL STORM DRAIN SYSTEM & KEEP INLETS PLUGGED. (SEE DETAIL SHT. 4 OF 4)
6. COMPLETE MAJOR GRADING.
7. PLACE SUB-BASE MATERIALS ON DRIVE, PARKING, LOADING, & BLDG. AREAS AS SOON AS POSSIBLE
8. STABILIZE ALL DISTURBED EARTH NOT INTENDED TO RECEIVE BLDG. OR PAVING COVERAGE
9. COMPLETE BUILDING & PAVING
10. REMOVE ALL DIVERSION DIKES, & SILT FENCES, EXCEPT EXISTING DIVERSION DIKE ALONG SOUTH PROPERTY LINE, & STABILIZE THOSE AREAS
11. FLUSH STORM DRAINS
12. CLEANOUT SEDIMENT TRAP & PLACE TO PROP. GR.
13. PLACE RIP-RAP AT END OF STORM DRAIN SYSTEM

SITE DATA

TOTAL AREA OF TRACT = 8.10 Ac±
AREA OF SUBMITTAL = 8.10 Ac±
AREA OF DISTURBANCE = 3.50 Ac±
AREA TO BE VEGETATIVELY STABILIZED = 2.55 Ac±
FLOOR AREA TO SITE RATIO
60,000 SF / 8.10 Ac: — 1.38 Ac: / 8.10 Ac: = 17% of Site
TOTAL NO. OF EMPLOYEES = 25
15: OFFICE, 10: WAREHOUSE
BUILDING USE - WAREHOUSE WITH OFFICE,
· NO RETAIL SALES AREAS OR MANUFACTURING USES WITHOUT PRIOR APPROVAL BY THE OFFICE OF PLANNING AND ZONING
PARKING SPACES REQUIRED = 25
20 @ 2/1000 SF Office (9,600 SF)
5 @ 1/2 Employees (Warehouse)
PARKING SPACES PROVIDED = 65
25 Employees (4 Handicapped) 40 Visitor
61 @ 9'x18' Std, 4 @ 12'x18' Hdc

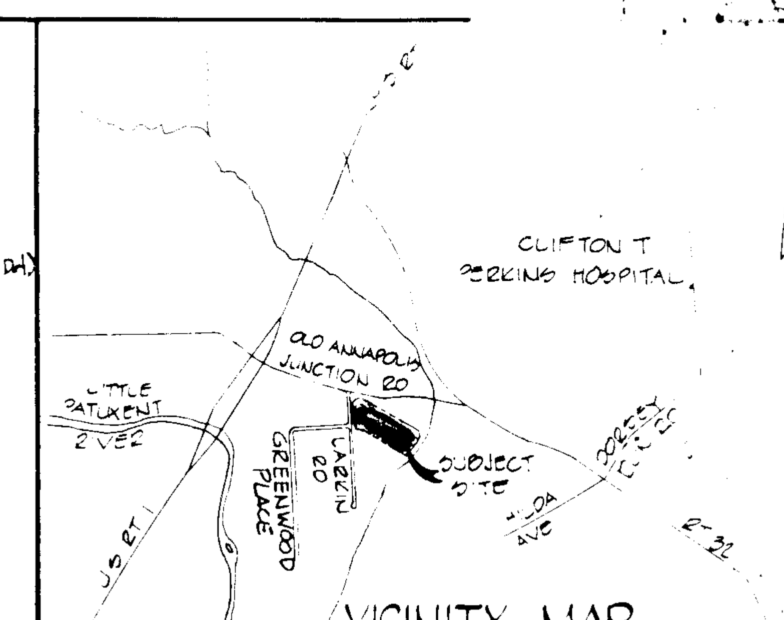
% BUILDING COVERAGE W/ PAVING = 36%
% OPEN SPACE = 64%
TAX MAP No: 47+48
TITLE REFERENCE:
Record Plat # 4773 F: #80-51
CORRIDOR INDUSTRIAL PARK, PARCEL P-1
EXISTING ZONING = M-2

GENERAL NOTES

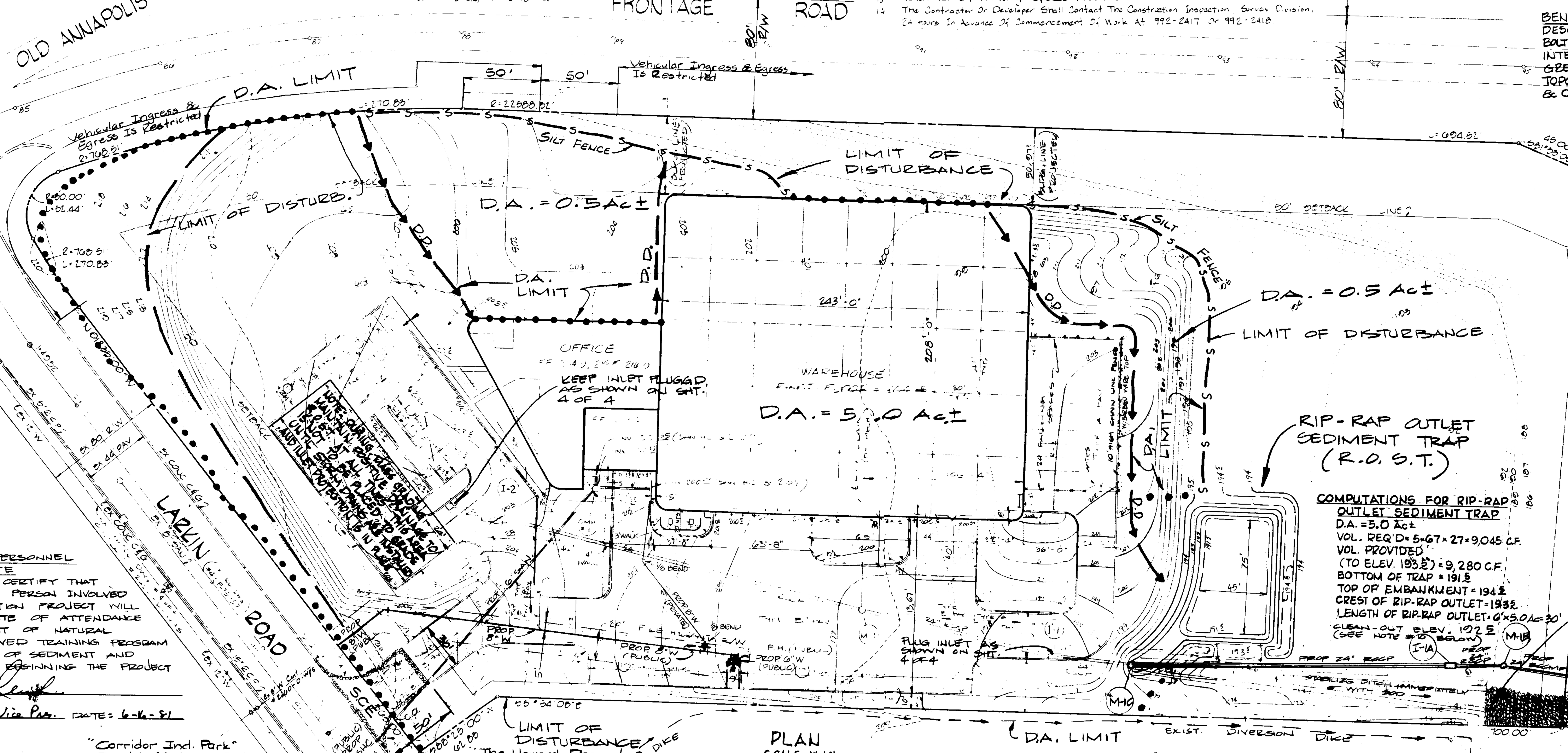
1. Maximum Building Height = 50'
2. All Areas Not Being Paved Or Receiving Building Coverage Shall Be Stabilized In Accordance With The Plans Approved By The Howard Soil Conservation District
3. Storm Water Management For This Site Is Provided Further Downstream By Corridor Ind Pk
4. Any Damage To Public Right-Of-Ways And Or Adjacent Properties Shall Be Repaired Immediately At The Contractor's Expense
5. The Contractor Shall Maintain At Least A 2' Level Bench Behind All Curb & Gutter In Fill Areas
6. The Contractor Shall Verify All Existing Utilities To His Own Satisfaction Before Starting Construction.
7. All Slopes Shall Be 3:1 Or Flatter
8. All Work Shall Be Done In Accordance With Howard Co. Std Specifications And Details For Construction, Or As Shown On These Plans.
9. The Contractor Shall Notify The C&P Telephone Co And The Gas & Electric Co Five Days Prior To Starting Work Shown On These Plans By Calling 'Miss Utility' Call Collect 1-559-0100
10. For Details Of Ramps & Signs For The Handicapped See The Maryland Bldg Code For The Handicapped And Aged & Detailed On SHT 2 of 4
11. The Contractor Shall Maintain A Minimum Of 3.5' Cover Over All Prop Water Lines
12. All Rip-Rap Shall Be Placed On Filter Cloth
13. Total No Of Parking Spaces Provided = 65
14. The Contractor Or Developer Shall Contact The Construction Inspection Survey Division, 24 Hours In Advance Of Commencement Of Work At 992-2417 Or 992-2418

LEGEND

INDICATES STANDARD PAVING SECTION
INDICATES CONC PAVING (Walks = 4" Thick, See Sht 2 of 4 For Dolly Pad Dtl)
INDICATES STD CURB & GUTTER
INDICATES REVERSE SLOPE C&G
INDICATES EXIST CONTOURS
INDICATES PROPOSED CONTOURS



VICINITY MAP
SCALE 1" = 2000'



COMPUTATIONS FOR RIP-RAP OUTLET SEDIMENT TRAP
D.A. = 5.0 Ac±
VOL. REQ'D = 5×67×27 = 9,045 C.F.
VOL. PROVIDED (TO ELEV. 193.5) = 9,280 C.F.
BOTTOM OF TRAP = 191.5
TOP OF EMBANKMENT = 194.5
CREST OF RIP-RAP OUTLET = 193.5
LENGTH OF RIP-RAP OUTLET = 6'×5.0 Ac = 30'
CLEAN-OUT ELEV. 192.5 (SEE NOTE #10 BELOW)

PLAN
SCALE: 1"=40'

BENCH MARK: B.M.#3 ELEV: 216.38
DESCRIPTION: CROSS CUT ON BONNET BOLT OF FIRE HYDRANT 290'± N. OF INTERSECTION OF LARKIN RD. AND GREENWOOD PL. (OBTAINED FROM TOPOGRAPHIC SURVEY - FISHER, COLLINS & CARTER, INC.)

"The Howard Research & Development Corp." "Corridor Ind. Park" Sect.-1 Plat #4773 Park, Utility & Drainage Reservation Ex. Zoning - M-2

"Corridor Ind. Park" Sect 1 (Sht. 2 of 9) Plat 31/13 Ex. Zoning - M-2

"The Howard Research & Development Corp." "Corridor Ind. Park" Sect-1, Parcel Q-1 Plat #4773 Ex. Zoning - M-2

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 8-13-81

RESPONSIBLE PERSONNEL CERTIFICATE

I / WE HEREBY CERTIFY THAT ANY RESPONSIBLE PERSON INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT

BY: [signature]
TITLE: Executive Vice Pres. DATE: 6-16-81

GENERAL NOTES FOR EROSION & SEDIMENT CONTROL

1.) Suitable Materials Shall Be Used For Fill And Rolled To A Minimum Degree Of Compaction Of 95% Of The Dry Unit Weight As Determined By A.S.T.M. D-698; All Sub-Grades Shall Be Compacted To The Same Degree.
2.) Contractor To Place 4" Topsoil Then Seed And Mulch All Disturbed Areas Not Receiving Paving Or Building Coverage As Soon As Final Grading Operation Has Been Completed; See Note #8 For Seed Specifications.
3.) All Work Shall Be Done In Accordance With The "Standards And Specifications For Soil Erosion And Sediment Control In Developing Areas", July, 1975.
4.) The Contractor Is To Take Care At All Times During Construction To Prevent Sediment Damage To Adjacent Properties And/Or Silting Of Roadways.
5.) During The Layout Of Sediment Control Practices Required By Plan, Minor Field Adjustments Can And Will Be Made To Assure The Arrest And Control Of Any Sediment Before It Leaves The Site. Changes To The Sediment Control Practices Shown On This Plan Require Prior Approval Of The Sediment Control Inspector And The Howard Soil Conservation District.
6.) At The End Of Each Working Day All Sediment Control Measures Will Be Inspected And Left In Operational Condition.
7.) Temporary Drainage Shall Be Provided To Avoid Ponding Of Water.
8.) Permanent Seed Specification: Seed Shall Be Kentucky 31 Tall Fescue Applied At A Rate Of 5 Lbs./1,000 S.F.; Lime Shall Be Applied At A Rate Of 2 T./Ac.; Commercial Fertilizer (10-10-10) Applied At A Rate Of 3/4 T./Ac.; Uniformly Mulch Area With Small Grain Unweathered Straw (Preferably Wheat) At A Rate Of 1 1/2 T./Ac. And Anchor With Asphalt Mulch Tie-Down Using Liquid Asphalt, Rapid Curing (RC-70, RC-250 Or RC-800) At A Rate Of 0.1 Gal./S.Y. (For Slopes Flatter Than 3:1). See Note #13 For Seeding Slopes 3:1 Or Steeper.
9.) The Upper End Of The Storm Drain Pipe Will Be Plugged At The End Of Each Working Day During Construction.
10.) The Cleanout Elevation For The Rip-Rap Outlet Sediment Trap Shall Be Marked On A Witness In A Convenient Location
12.) For "Construction Sequence", See Sheet 3 Of 4.
13.) Seeding For Slopes 3:1 Or Steeper: Spreading 4" Of Topsoil, Seed Shall Be A Mixture 30% Innoculated Crown Vetch And 70% Kentucky 31 Tall Fescue Applied At A Rate Of 60 Lbs./Ac. Fertilizer And Mulching Shall Be The Same As Note #8
14. SOD SPECIFICATION: (Outfall Ditch) Sod Shall Be K-31 Sod Which Has Not Been Cut & Rolled More Than 2 Days In Advance; All Sod Shall Be Fastened Securely With At Least 2 Stakes Not More Than 2 Feet Apart, With The Flat Side Against The Slope & Stake Flush With Top Of Sod; Lime & Fertilize Sod Bed As Specified In Note #8

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER [signature] DATE 10-6-81

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR [signature] DATE 10-6-81
CHIEF OF LAND DEVELOPMENT AND ZONING ADMINISTRATION [signature] DATE 10-6-81

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS, AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR Robert M. Beninger / for GFN DATE 10-2-81
CHIEF OF BUREAU OF ENGINEERING [signature] DATE 10/2/81

HOWARD COUNTY SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
William [signature] 9-28-81
APPROVED: HOWARD SOIL CONSERVATION DISTRICT DATE
REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James McHelm 9-28-81
SIGNATURE DATE
THE UNITED STATES SOIL CONSERVATION DISTRICT

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC.
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204

STATE OF MARYLAND — TAPOBRATA CHAKRABARTI — No. 8930 — REGISTERED PROFESSIONAL ENGINEER

ENGINEERS 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.
Tapobrata Chakrabarti 8930 6-15-81
TAPOBRATA CHAKRABARTI REG. NO. DATE

OWNER / DEVELOPER
SAI REALTY INC.
P.O. BOX 308 ~~9050 RED BRANCH ROAD~~
OAKLAND RIDGE INDUSTRIAL PARK
COLUMBIA, MARYLAND 21045
730-9003

OWNER/DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
BY: [signature] DATE: 6-16-81
TITLE: Executive Vice Pres.
SAI REALTY INC. 9050 RED BRANCH RD. COLUMBIA, MD. 21045 730-9003

DESIGN: R.W.R.
DRAWN: D.L.C.
CHECK: T.C.
6/10/83 ADDED ADDITIONAL STORM DRAIN RUN FROM M-1C TO E-1

GRADING, EROSION, & SEDIMENT CONTROL PLAN
PROPOSED OFFICE & WAREHOUSE
CORRIDOR INDUSTRIAL PARK
SECTION-1 PARCEL P-1
6th Election Dist., Howard Co. Md. Tax Maps 47 & 48
Scale 1"=40' Date June 10, 1981
PN 4522 SDP-81-182 Sheet 3 of 4

Mueller Associates, Inc
Mechanical & Electrical Engineers

George Evans Associates, Inc.
Structural Engineers

Richter Cornbrooks Gribble, Inc.
Architects/Planners
2120 North Charles Street
Baltimore, Maryland 21218

OFFICES AND WAREHOUSE FOR SUBARU ATLANTIC, INC.
COLUMBIA, MARYLAND

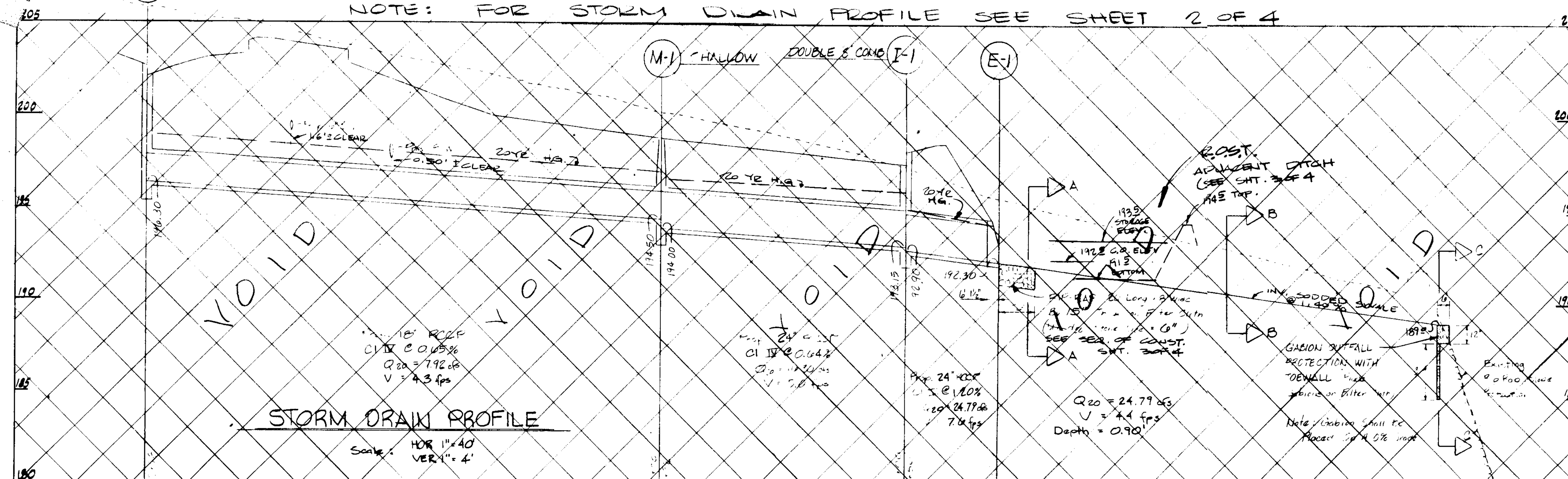
Revisions: No.	Date	

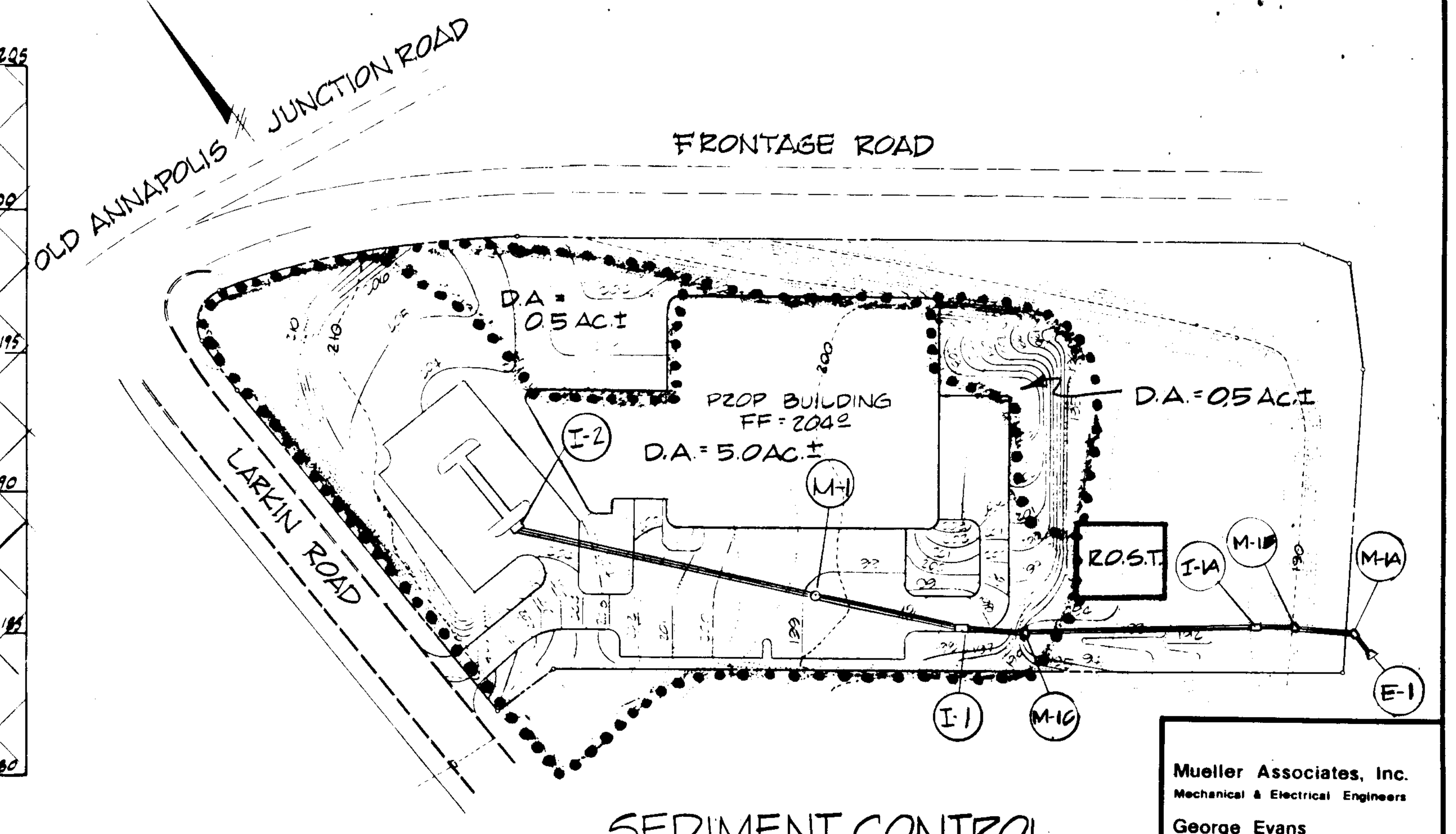
Date	Job No

Drawing No: CE-3

SDP-81-182

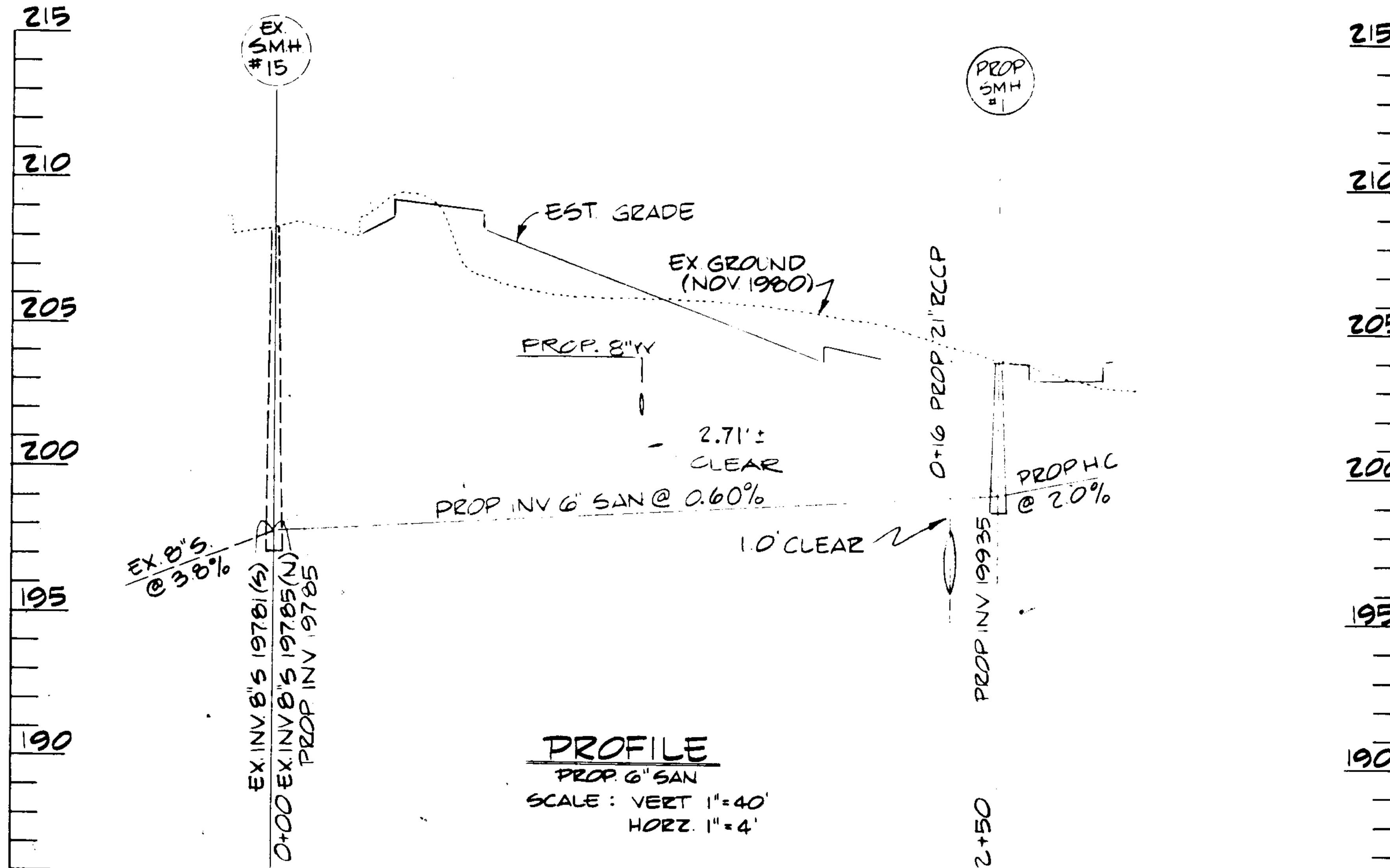
NOTE: FOR STORM DRAIN PROFILE SEE SHEET 2 OF 4





SEDIMENT CONTROL DRAINAGE AREA MAP

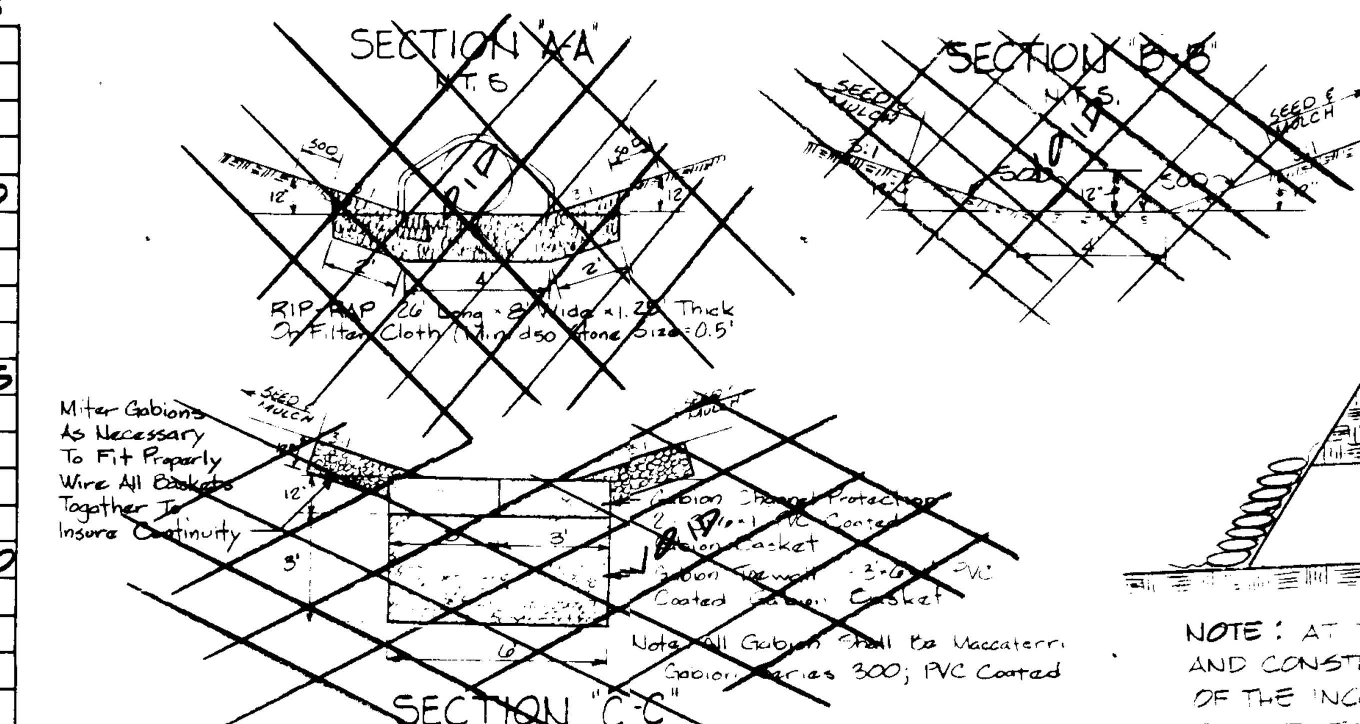
SCALE: 1" = 100'



PROFILE

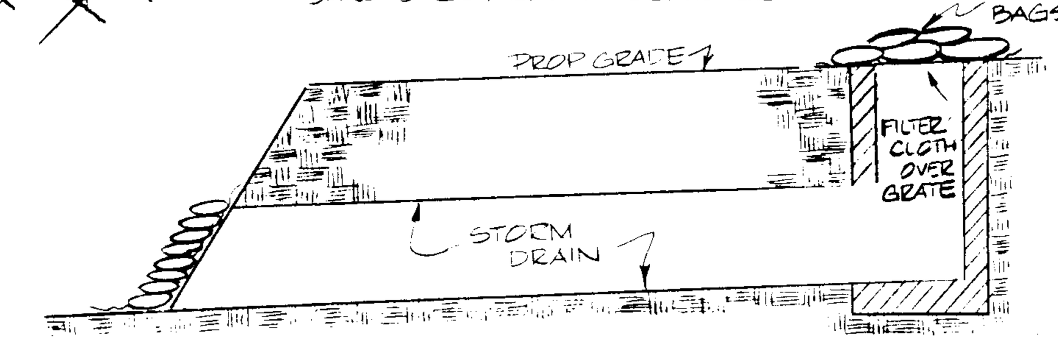
PROP. 6" SAN

SCALE: VERT 1" = 40'
HORZ. 1" = 4'



INTERIM STORM DRAIN PLUGGING DETAIL (NO SCALE)

NOTE: AFTER STORM DRAINS ARE INSTALLED AND AREA PLACED TO GRADE; REMOVE SANDBAGS FROM CENTER OF INLET. LEAVE FILTER CLOTH IN PLACE WITH SAND BAGS AROUND PERIMETER.



NOTE: AT THE END OF EACH WORKING DAY DURING LAYOUT AND CONSTRUCTION OF STORM DRAIN SYSTEM THE UPPER END OF THE INCOMPLETE SYSTEM SHALL BE PLUGGED SAME AS OUTLET, TO PREVENT SEDIMENTATION OF PIPE.

APPROXIMATE GRADING QUANTITIES		
TOTAL CUT	=	12,000 C.Y. ±
FILL	=	10,909 C.Y. ±
10% SHRINKAGE	=	1,091 C.Y. ±
TOTAL FILL	=	12,000 C.Y. ±

THIS IS A BALANCED PROJECT

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 8-13-81

MANHOLE SCHEDULE

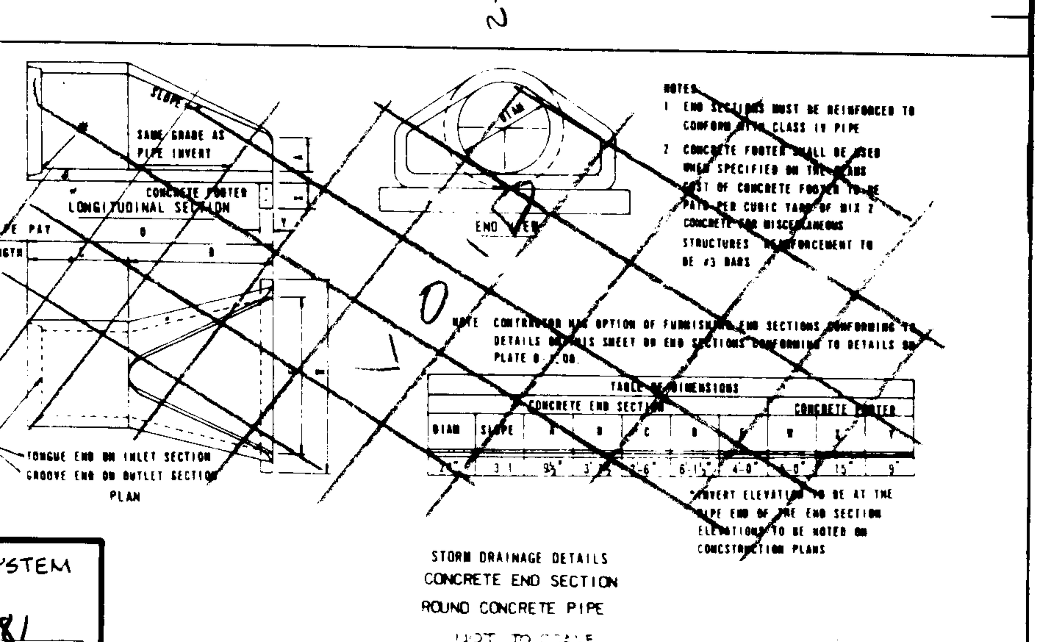
NO	TYPE	TOP ELEV.	INV. IN	INV. OUT	REMARKS
SMH #1	STD.	203.8	199.45	199.35	HO. CO. STD. S-2
M-1	SHALLOW	198.85	194.30	194.00	SEE DETAIL THIS SHT.

INLET SCHEDULE

NO	TYPE	TOP GRATE	INV. IN	INV. OUT	REMARKS
I-1	DBL "S" COMB	197.50	192.15	192.90	HO. CO. STD. D-99
I-2	DBL "S" COMB	202.00		196.30	HO. CO. STD. D-99

STRUCTURE SCHEDULE

NO	TYPE	INV. IN	INV. OUT	REMARKS
E-1	CONC. END SECT.	192.37	192.30	SHA STD. MD 368.02 (SEE DETAIL THIS SHT.)



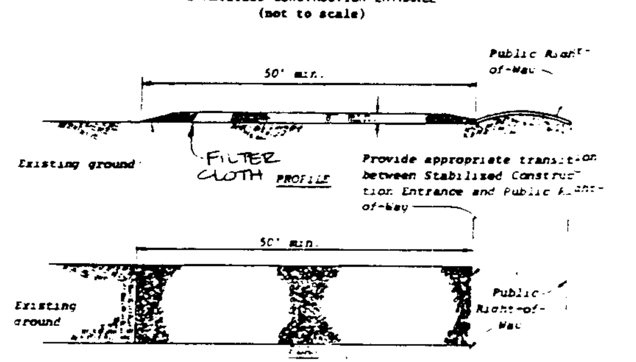
NOTES
1. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS IV PIPE
2. CONCRETE FOOTER SHALL BE USED WHEN SPECIFIED ON THE PLANS. COST OF CONCRETE FOOTER TO BE PAID PER CUBIC YARD OF MIX 2 CONCRETE FOR MISCELLANEOUS STRUCTURES. REINFORCEMENT TO BE #3 BARS

NOTE: CONTRACTOR HAS OPTION OF FURNISHING END SECTIONS CONFORMING TO DETAILS ON THIS SHEET OR END SECTIONS CONFORMING TO DETAILS ON PLATE ...

*INVERT ELEVATION TO BE AT THE PIPE END OF THE END SECTION. ELEVATIONS TO BE NOTED ON CONSTRUCTION PLANS

STORM DRAINAGE DETAILS
CONCRETE END SECTION
ROUND CONCRETE PIPE
NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE
(not to scale)



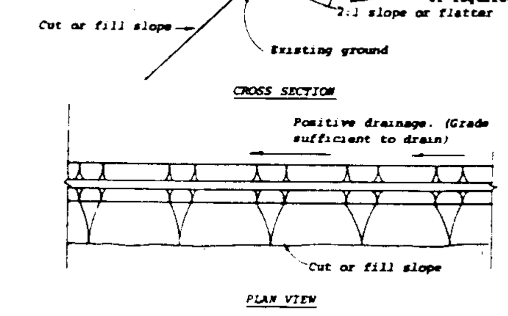
Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 3") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels 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 crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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.

Standard Symbol SCE

STABILIZED CONSTRUCTION ENTRANCE

DIVERSION DIKE*



Construction Specifications

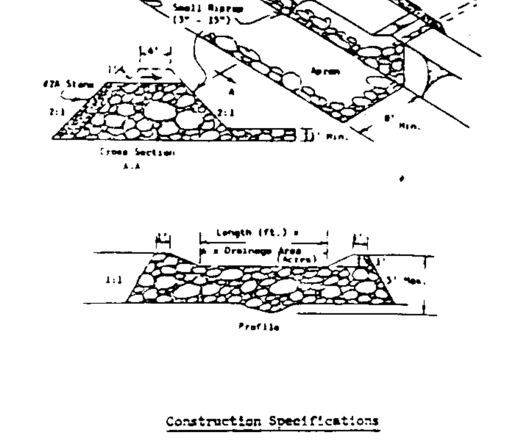
1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol DD

* Drainage area less than 5 acres

DIVERSION DIKE

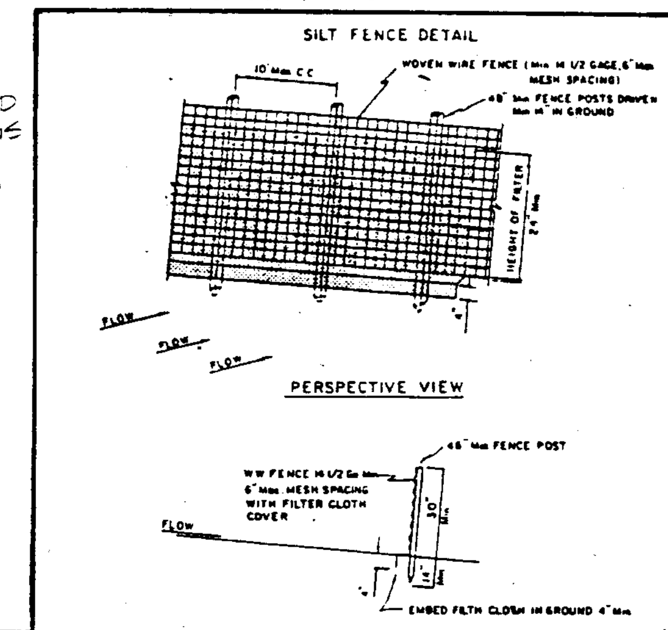
RIPRAP OUTLET SEDIMENT TRAP
R.O.S.T



Construction Specifications

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. Sediment shall be removed and trap restored 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.
4. The structure shall be inspected after each rain and repairs made as needed.
5. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
6. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
7. All cut and fill slopes shall be 2:1 or flatter.
8. The stone used in the outlet shall be small riprap 3" - 15", with a 1' thickness of #2-A crushed stone placed on the up-grade side of the small riprap.
9. Drainage area for this practice is limited to 5 acres or less.

SILT FENCE DETAIL



CONSTRUCTION NOTES

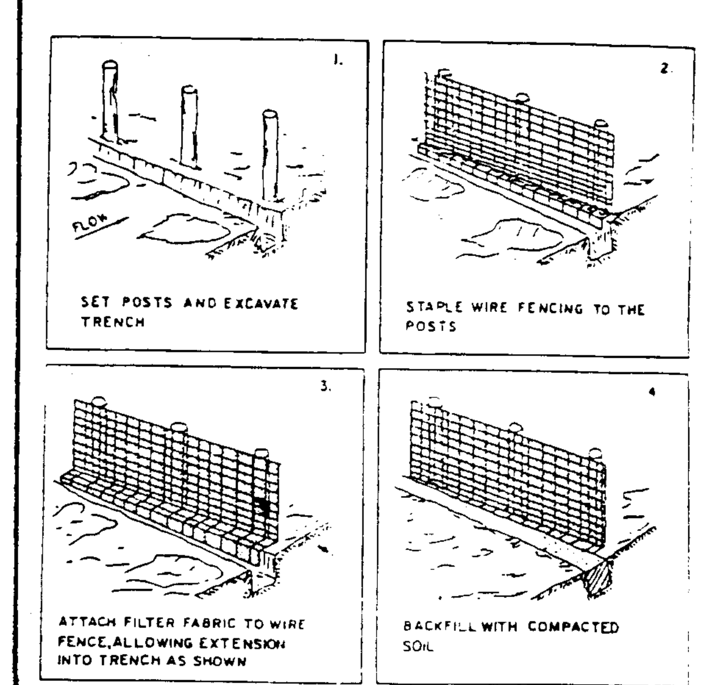
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. SEE STEP BY STEP PROCEDURE ON BACK OF THIS SHEET.

POSTS: STEEL EITHER T or U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 1/2 Ga. Max. 6" MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, LAUREL EROSION CONTROL CLOTH, POLYFILTER X OR EQUAL

STANDARD SYMBOL
*DRAINAGE AREA LESS THAN 1/2 ACRE

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.	SILT FENCE	STANDARD DRAWING SF-1

BUILDING A SILT FENCE
A STEP BY STEP PROCEDURE



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.	SILT FENCE	STANDARD DRAWING SF-1A

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 10-6-81

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 10-6-81
CHIEF OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 10-6-81

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR Robert M. Beninger / for GFN — DATE 10-2-81
CHIEF OF ENGINEERING — DATE 10/2/81

HOWARD COUNTY SOIL CONSERVATION DISTRICT
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: HOWARD SOIL CONSERVATION DISTRICT — DATE 9-28-81
REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE James M. Nelson — DATE 9-28-81
THE UNITED STATES SOIL CONSERVATION DISTRICT

GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES INC.
ENGINEERS
303 ALLEGHENY AVE. TOWSON, MD. 21204

STATE OF MARYLAND — TAPOBRATA CHAKRABARTI — NO. 8930 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S CERTIFICATE
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TAPOBRATA CHAKRABARTI — REG. NO. 8930 — DATE: 6-15-81

OWNER / DEVELOPER
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OAKLAND RIDGE INDUSTRIAL PARK
COLUMBIA, MARYLAND 21045
730-9003

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BY: — TITLE: Exec. VP — DATE: 6-16-81
SAI REALTY INC. ~ 9050 RED BRANCH RD ~ COLUMBIA, MD 21045
730-9003

DESIGN: RWR
DRAWN: DLC
CHECK: T.C.

REVISIONS 6/10/83 VOIDED SECT. A-A, B-B, & C-C. ADDED STORM DRAIN FROM M-1C TO E-1 TO DRAINAGE AREA MAP

Mueller Associates, Inc.
Mechanical & Electrical Engineers

George Evans Associates, Inc.
Structural Engineers

Richter Cornbrooks Gribble, Inc.
Architects/Planners
2120 North Charles Street
Baltimore, Maryland 21218

OFFICES AND WAREHOUSE
FOR
SUBARU ATLANTIC, INC.
COLUMBIA, MARYLAND

Revisions:
No. Date

Date:
Job No:
Drawing No: CE-4

SDP-81-182

EROSION & SEDIMENT CONTROL PROFILES AND DETAILS
PROPOSED OFFICE & WAREHOUSE
CORRIDOR INDUSTRIAL PARK
SECTION-1, PARCEL P-1
6TH Election Dist., Howard Co. Md — Tax Maps 47/48
Scale AS SHOWN — Date June 10, 1981
PN 4502
Sheet 4 of 4

SDP-81-182