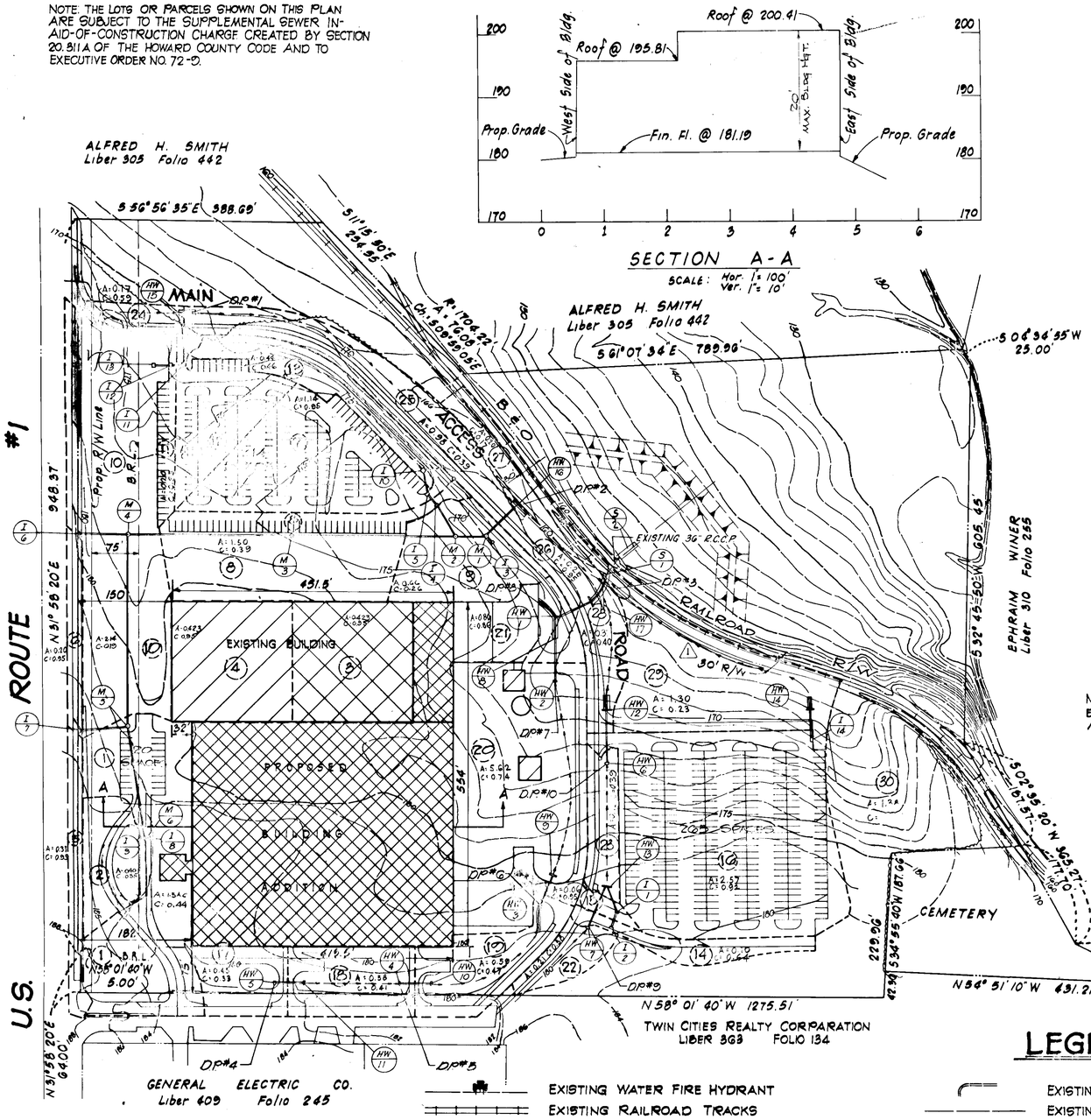
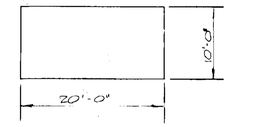
NOTE: THE LOTS OR PARCELS SHOWN ON THIS PLAN ARE SUBJECT TO THE SUPPLEMENTAL SEWER IN-AID-OF-CONSTRUCTION CHARGE CREATED BY SECTION 20.311.A OF THE HOWARD COUNTY CODE AND TO EXECUTIVE ORDER NO. 72-3.



INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	GENERAL PLAN & DRAINAGE AREA MAP
2	SITE PLAN - GRADING
3	SITE PLAN - GRADING
4	PROFILES
5	PROFILES
6	SOIL STABILIZATION NOTES & PROFILES
7	PROFILES & SECTIONS
8	SECTIONS
9	FIRE LOOP PROFILES & DETAILS
10	STORM DRAIN PROFILES
11	STORM DRAIN PROFILES
12	DRAINAGE INFORMATION
13	DETAILS
14	DETAILS
15	DETAILS
16	STORM WATER DETENTION & SEDIMENT BASIN



TYPICAL PARKING SPACE
SCALE: 1" = 10'-0"

NOTE: ALL ROADS AND PARKING AREAS EXCEPT U.S. ROUTE #1 R/W ARE TO BE MAINTAINED BY THE OWNER.

EXISTING TOPOGRAPHIC FEATURES AND CONTOUR ELEVATIONS HAVE BEEN SHOWN ACCORDING TO SURVEYS CONDUCTED BY BEN DYER ASSOC. INC. 4705 QUEENSBURY RD, RIVERDALE, MD MAY, 1973

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

COUNTY HEALTH OFFICER — DATE 10/1/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D. (NAME) and meets Technical Requirements

Signature, U.S. Soil Conservation Service — Date 9-30-74

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

Approved Robert W. Zirkus, Howard S.C.D. — Date 9-30-74

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-18-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 9-16-74

SITE ANALYSIS

AREA	34.8073 Ac. ⚠
ZONING	M-1 & M-2
EMPLOYEES	650
FLOOR SPACE	242,000 s.f.
PARKING SPACES REQ'D	325
PARKING SPACES PROVIDED	501

OWNER: AMERICAN INSTRUMENT CO.
9299 WASHINGTON BLVD.
US RTE. 1
SAVAGE, MARYLAND 20863

DEVELOPER: SAME AS ABOVE

ENGINEER: DALTON•DALTON•LITTLE•NEWPORT
7315 WISCONSIN AVE.
BETHESDA, MARYLAND 20014

CONSTRUCTION SCHEDULE

BEGIN.....DECEMBER 1974
END.....DECEMBER 1975

LEGEND

- EXISTING WATER FIRE HYDRANT
- EXISTING RAILROAD TRACKS
- EXCAVATION OR CUT
- EMBANKMENT OR FILL
- EXISTING POWER POLES
- (17) DRAINAGE AREA
- FUTURE SEWER MAIN
- CONCRETE
- PROPOSED WATER AND FIRE HYDRANT
- EXISTING CONCRETE CURB
- EXISTING WATER MAIN
- EXISTING GAS
- EXISTING TELEPHONE CONDUIT
- 180 EXISTING CONTOUR
- 180 PROPOSED CONTOUR
- BENCH MARK
- PROPOSED CONCRETE CURB
- PROPOSED PAINTED LINE ISLAND (PARKING LOTS)
- AREA SHOWN THUS INDICATE PROPOSED PAVING (ON SITE)
- AREAS SHOWN THUS INDICATE PROPOSED PAVING (ALONG U.S. ROUTE #1)
- PROPOSED SANITARY SEWER
- RIGHT-OF-WAY AND PROPORTY LINE
- PROPOSED DITCH
- DIRECTION OF DRAINAGE
- PROPOSED WATER
- PROPOSED STORM DRAIN & MH
- PROPOSED INLET
- PROPOSED S.D. HEADWALL

SCALE: 1" = 100'

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED CONTOURS AND ACREAGE	5/13/14	W.B.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
3	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74
J. H. Clawson
REGISTERED ENGINEER

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL
SECTION OR DETAIL No.
SHEET ON WHICH DETAIL APPEARS

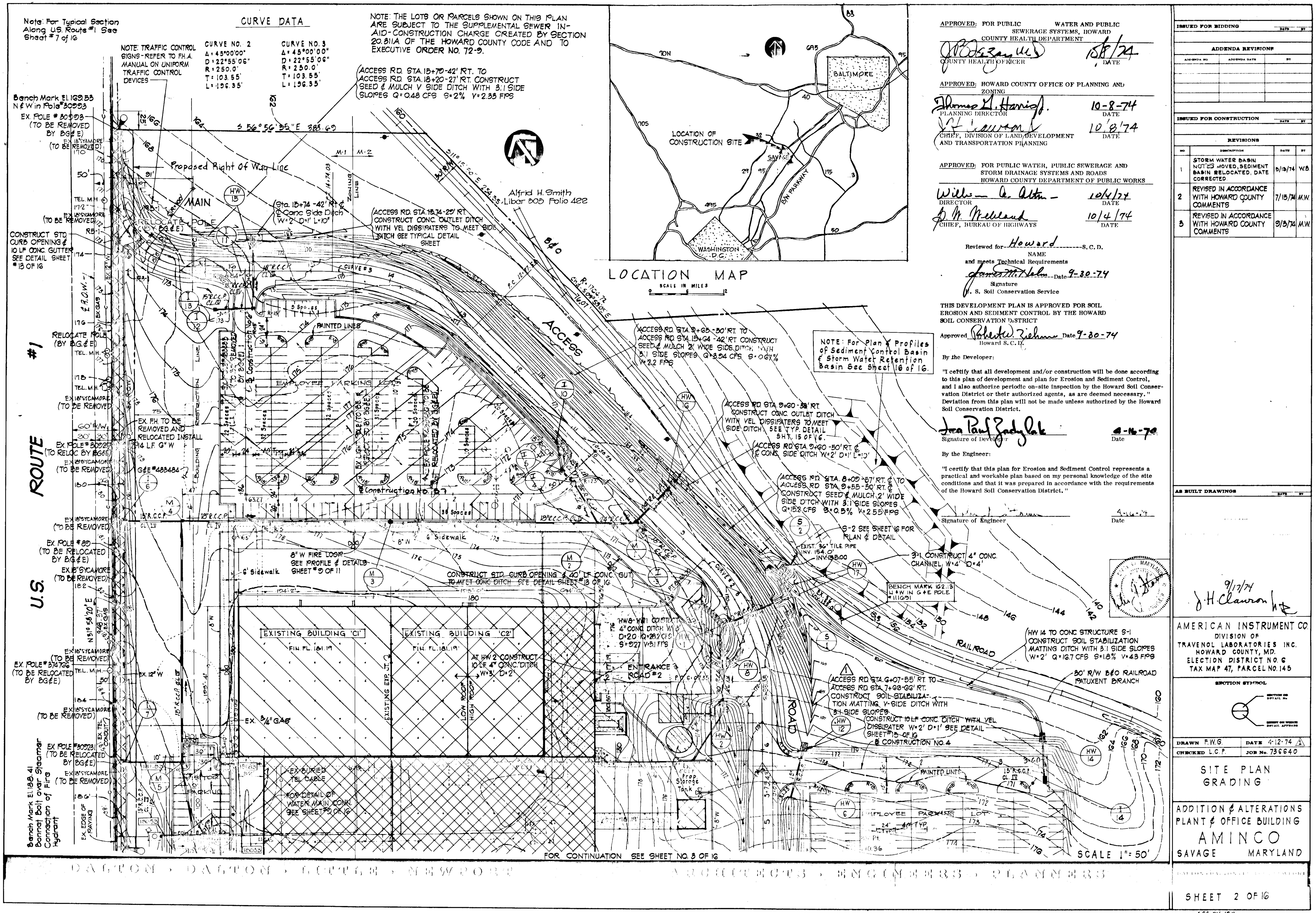
DRAWN F.W.G.	DATE 4-12-74
CHECKED L.C.P.	JOB No. 73GG40

GENERAL PLAN & DRAINAGE AREA MAP

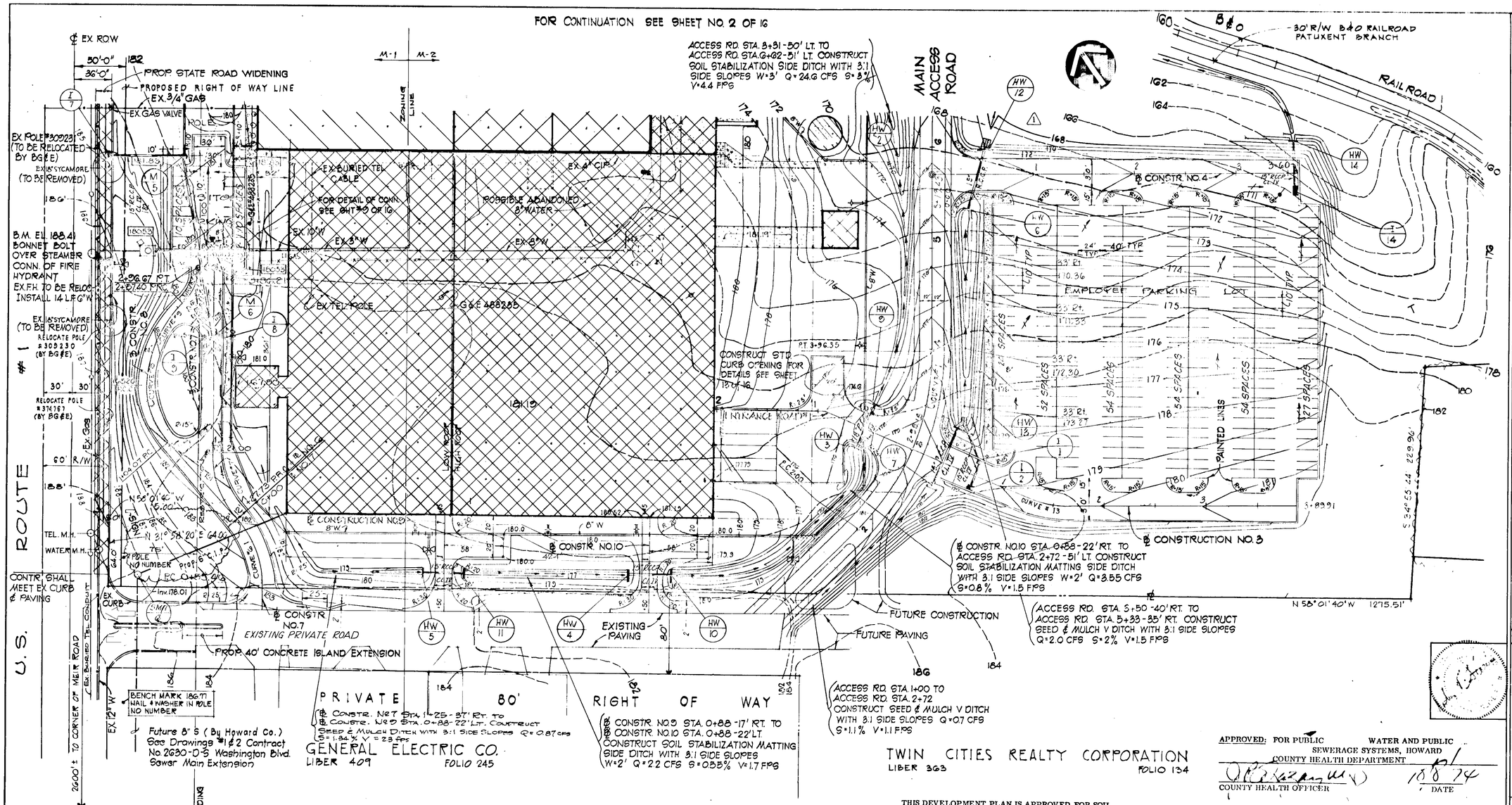
ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

DALTON • DALTON • LITTLE • NEWPORT — CIVIL ENGINEERS • ENGINEERS • PLANNERS

SHEET 1 OF 16



Note: For Typical Section Along U.S. Route #1 See Sheet #7 of 16
CURVE DATA
CURVE NO. 2 Δ = 45°00'00" D = 22°55'06" R = 250.0' T = 103.55' L = 196.35'
CURVE NO. 3 Δ = 45°00'00" D = 22°55'06" R = 250.0' T = 103.55' L = 196.35'
NOTE: TRAFFIC CONTROL SIGNS - REFER TO F.H.A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NOTE: THE LOTS OR PARCELS SHOWN ON THIS PLAN ARE SUBJECT TO THE SUPPLEMENTAL SEWER IN-AID-CONSTRUCTION CHARGE CREATED BY SECTION 20.311A OF THE HOWARD COUNTY CODE AND TO EXECUTIVE ORDER NO. 72-9.
Bench Mark El. 169.53 N & W in Pole #30593
Proposed Right Of Way Line
Alfrid H. Smith Liber 505 Folio 422
U.S. ROUTE #1
ACCESS ROAD
EXISTING BUILDING 'C1' FIN. FL. 181.19
EXISTING BUILDING 'C2' FIN. FL. 181.19
EMPLOYEE PARKING LOT
ENTRANCE ROAD #2
30' R/W B&O RAILROAD PATUXENT BRANCH
NOTE: For Plan & Profiles of Sediment Control Basin & Storm Water Retention Basin See Sheet 16 of 16.
FOR CONTINUATION SEE SHEET NO. 3 OF 16
SCALE 1" = 50'
LOCATION MAP
LOCATION OF CONSTRUCTION SITE
BALTIMORE
WASHINGTON D.C.
SAVAGE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 10/8/74 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR 10-8-74 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING 10/8/74 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR 10/4/74 DATE
CHIEF, BUREAU OF HIGHWAYS 10/4/74 DATE
Reviewed for Howard S.C.D. and meets Technical Requirements Date 9-30-74 Signature U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved Howard S.C.D. Date 9-30-74
By the Developer:
"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Signature of Developer Date
By the Engineer:
"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer Date
ISSUED FOR BIDDING
ADDENDA REVISIONS
ISSUED FOR CONSTRUCTION
REVISIONS
1 STORM WATER BASIN NOTES MOVED, SEDIMENT BASIN RELOCATED, DATE CORRECTED 8/13/74 W.B.
2 REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS 7/15/74 M.W.
3 REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS 9/3/74 M.W.
AS BUILT DRAWINGS
AMERICAN INSTRUMENT CO. DIVISION OF TRAVENOL LABORATORIES INC. HOWARD COUNTY, MD. ELECTION DISTRICT NO. 6 TAX MAP 47, PARCEL NO. 145
SECTION SYMBOL
DRAWN F.W.G. DATE 4-12-74
CHECKED L.C.P. JOB No. 736640
SITE PLAN GRADING
ADDITION & ALTERATIONS PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND
DALTON • DALTON • LITTLE • NEWPORT ARCHITECTS • ENGINEERS • PLANNERS
SHEET 2 OF 16
SDP-74-100



NOTE: THE LOTS OR PARCELS SHOWN ON THIS PLAN ARE SUBJECT TO THE SUPPLEMENTAL SEWER IN-AID-OF-CONSTRUCTION CHARGE CREATED BY SECTION 20.311A OF THE HOWARD COUNTY CODE AND TO EXECUTIVE ORDER NO 72-9.

NOTE: Contractor Shall Call C&P Tel. Co. 725-9976 30 Days Prior To Beginning Work In The Vicinity Of Buried Telephone Cables.

NOTE: Ex. Poles As Noted Shall Be Removed And Relocated By The Baltimore Gas And Electric Company. Contractor Shall Call Miss Utility At 1-301-559-0100 30 Days Prior To Beginning Work In The Vicinity Of Ex. Poles, Buried Gas Main And Elec. Cables. The Utilities Shown On These Plans Are From Most Recent Information Available. The Engineer Does Not Warrant Their Exact Location And Recommends Field Location And Stakeout Prior To Any Construction.

CURVE DATA

CURVE NO. 1	CURVE NO. 6	CURVE NO. 7	CURVE NO. 8
Δ = 45°00'00"	Δ = 41°24'35"	Δ = 41°24'35"	Δ = 41°24'35"
D = 22°55'06"	R = 100.00'	R = 100.00'	R = 84.66'
R = 250.0'	T = 37.80'	T = 37.80'	T = 32.00'
T = 103.55'	L = 72.27'	L = 72.27'	L = 61.19'
L = 196.35'			

CURVE NO. 9	CURVE NO. 10	CURVE NO. 13
Δ = 45°00'00"	Δ = 45°00'00"	Δ = 22°30'00"
R = 117.31'	R = 50.00'	R = 100.0'
T = 48.59'	T = 20.71'	T = 19.89'
L = 92.14'	L = 39.27'	L = 39.27'

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

Approved Robert W. Zielsdorf Howard S.C.D. Date 9-30-74

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Ira Paul Sadylak — Signature of Developer — 9-16-74 Date

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date

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

COUNTY HEALTH OFFICER — 10-8-74 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas H. Harris Jr. — PLANNING DIRECTOR — 10-8-74 DATE

J. H. Clawson — CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — 10/8/74 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William A. Allen — DIRECTOR — 10/4/74 DATE

L. M. Mehrand — CHIEF, BUREAU OF HIGHWAYS — 10/4/74 DATE

Reviewed for Howard S.C.D. NAME and meets Technical Requirements

James M. Hebb Date 9-30-74 Signature U.S. Soil Conservation Service

SCALE 1"= 50'

ISSUED FOR BIDDING	DATE	BY

ADDENDA REVISIONS

ADDENDA NO	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS

NO	DESCRIPTION	DATE	BY
1	REVISED CONTOURS AND DATE CORRECTED	5/13/74	W.B.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
3	REVISED IN ACCORDANCE WITH HOWARD COUTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS DATE BY

9/17/74 J. H. Clawson

AMERICAN INSTRUMENT CO
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

SECTION OR DETAIL No.

SHEET OR DRAWING DETAIL APPEARS

DRAWN F.W.G. DATE 4-12-74
CHECKED L.C.P. JOB No. 736640

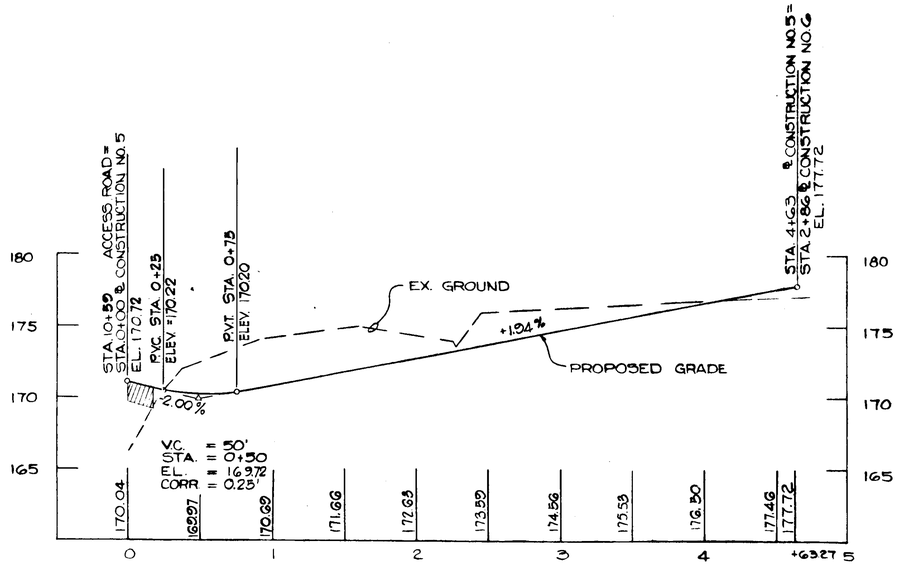
SITE PLAN GRADING

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE, MARYLAND

DALTON · DALTON · LITTLE · NEWPORT
ARCHITECTS · ENGINEERS · PLANNERS

SHEET 3 OF 16

SDP-74-106



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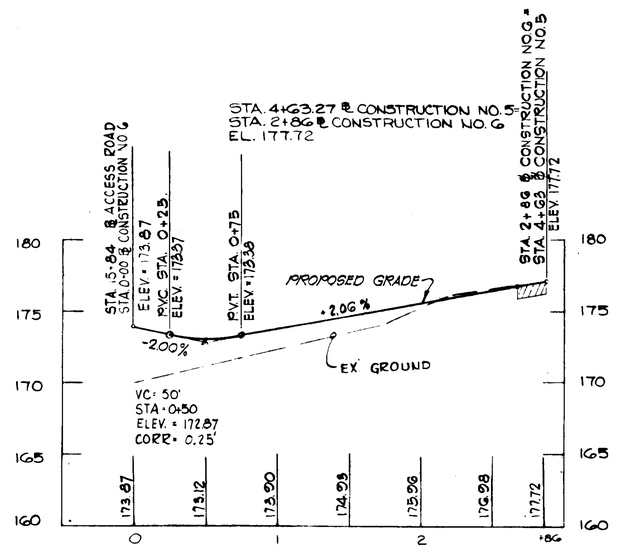

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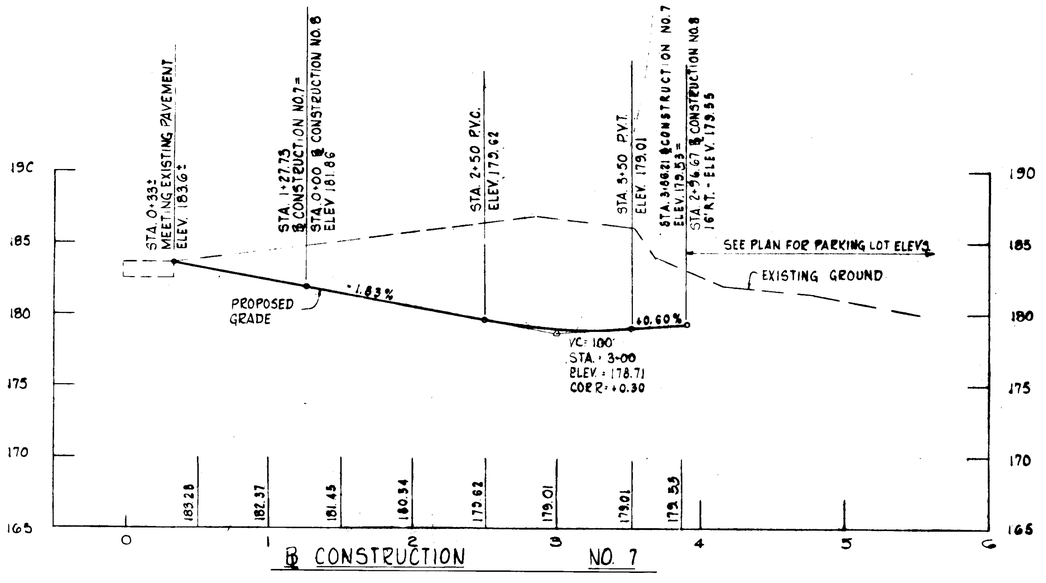

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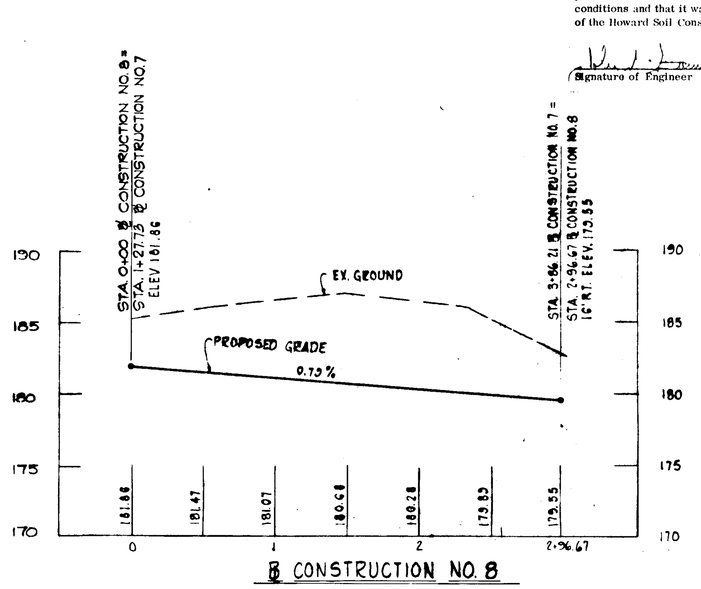


℄ CONSTRUCTION NO. 8

PROFILE	PLAN SHT.
℄ Constr. No.5	2
℄ Constr. No.6	2
℄ Constr. No.7	3
℄ Constr. No.8	3

SCALE: HORZ. 1"= 50'
VERT. 1"= 5'

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

COUNTY HEALTH OFFICER — DATE 10/8/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/14/74

Reviewed for---Howard---S. C. D.
NAME
and meets Technical Requirements
---Date---9-30-74
Signature
U. S. Soil Conservation Service

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

Approved Robert W. Zellers Date 9-30-74
Howard S.C.D.

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-26-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 9-26-74

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.

AS BUILT DRAWINGS — DATE — BY

APPROVED
DIVISION OF LAND DEVELOPMENT AND ZONING
9/17/74
J. H. Dawson, II

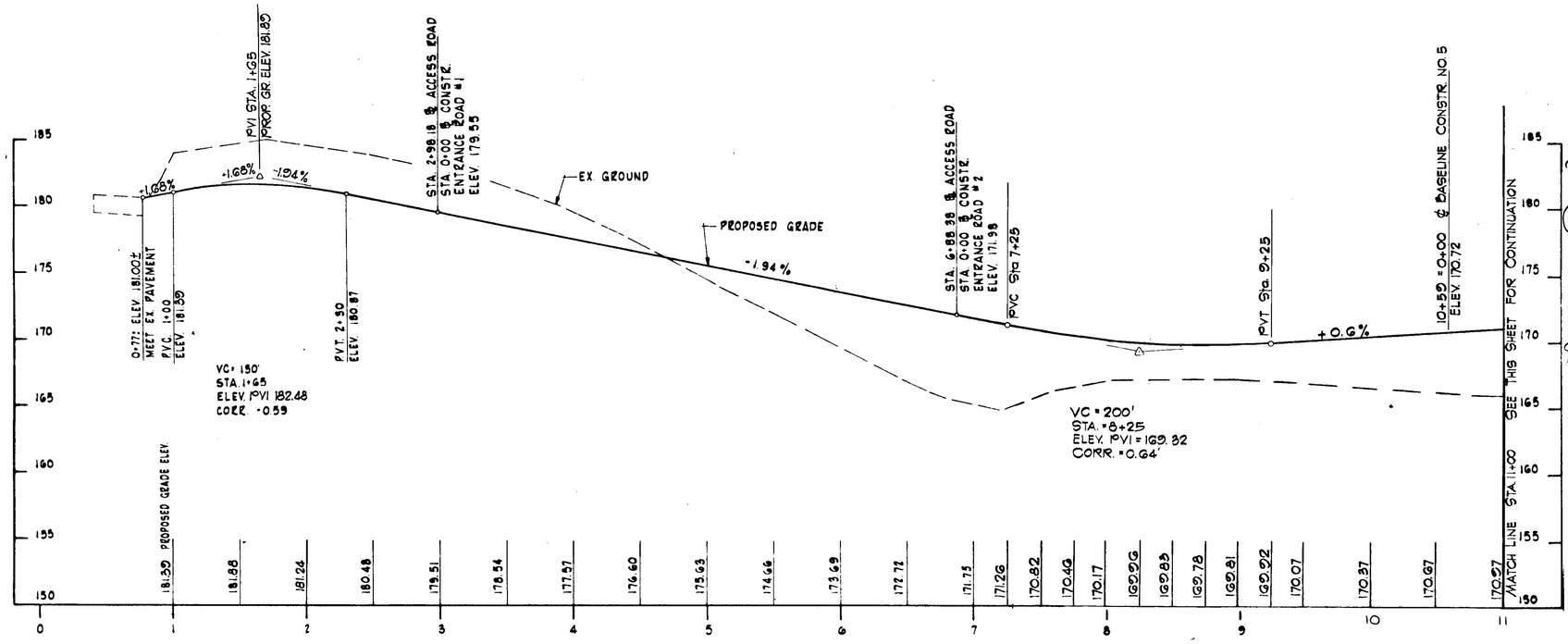
AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

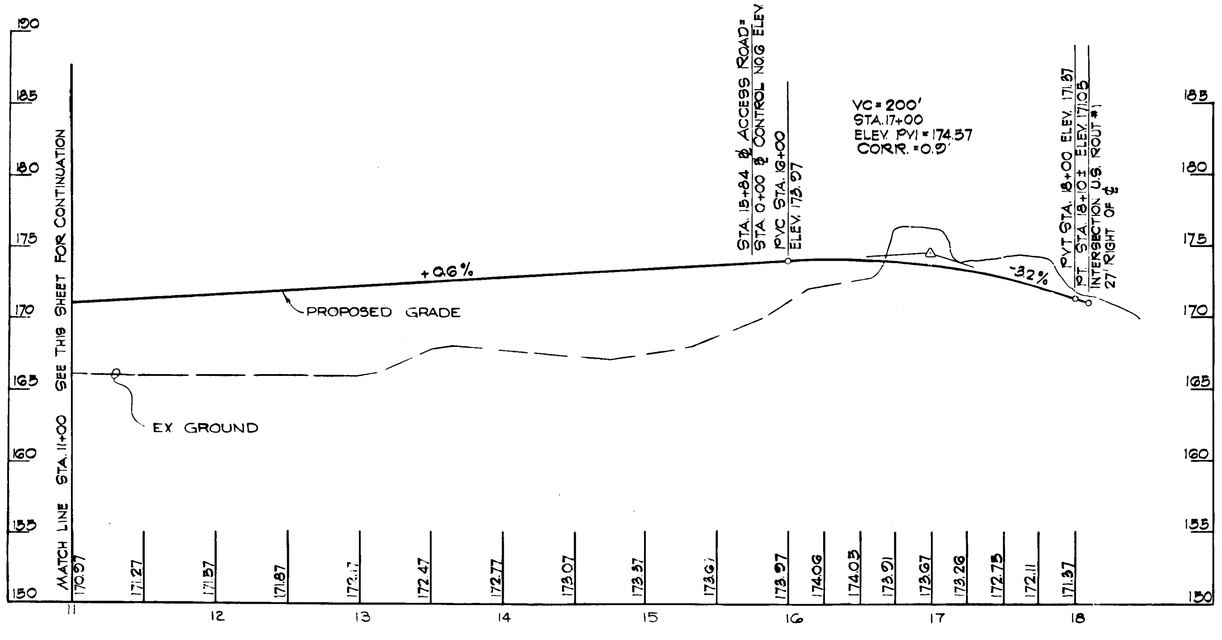
DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 73GG60

PROFILES

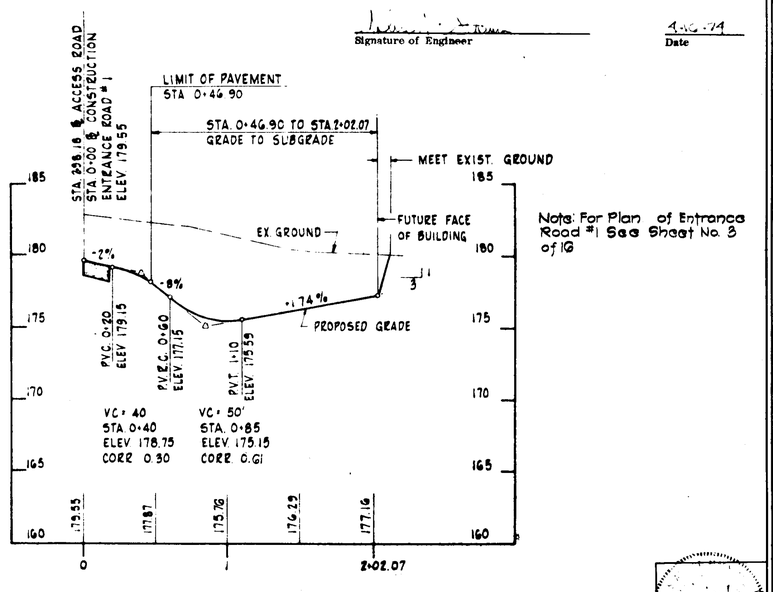
ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND



MAIN ACCESS ROAD



MAIN ACCESS ROAD



Note: For Plan of Entrance Road #1 See Sheet No. 3 of 16

ENTRANCE ROAD #1

SCALE: HORZ. 1" = 50'
VERT. 1" = 5'

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

COUNTY HEALTH OFFICER — DATE 10/1/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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

Approved: Robert W. Ziehm — Date 9-30-74
Howard S.C.D.

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-11-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 9-10-74

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74
J. H. Clawson JR

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 73GG40

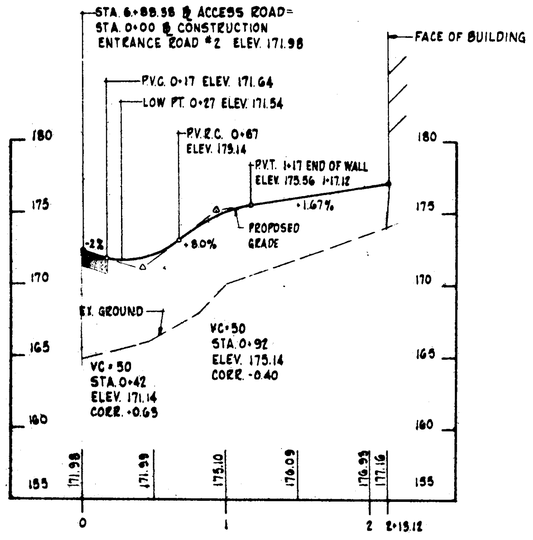
PROFILES

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

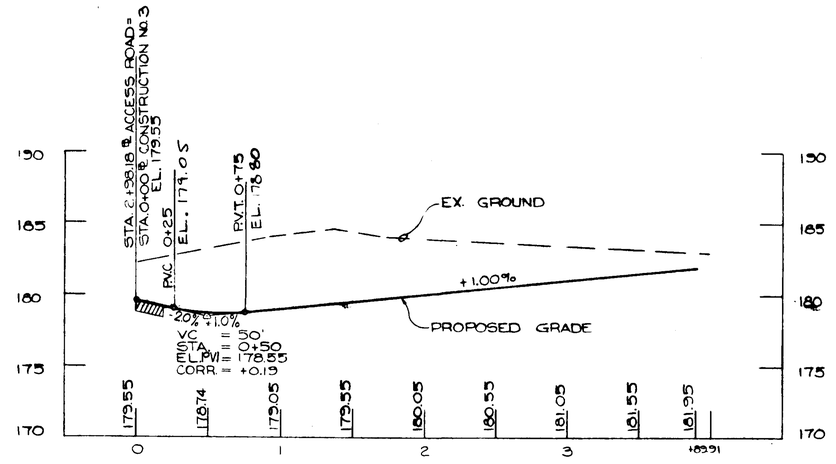
SHEET 5 OF 16

DALGOW · DAYTON · LITTLE · MEYROSE — ARCHITECTS · ENGINEERS · PLANNERS

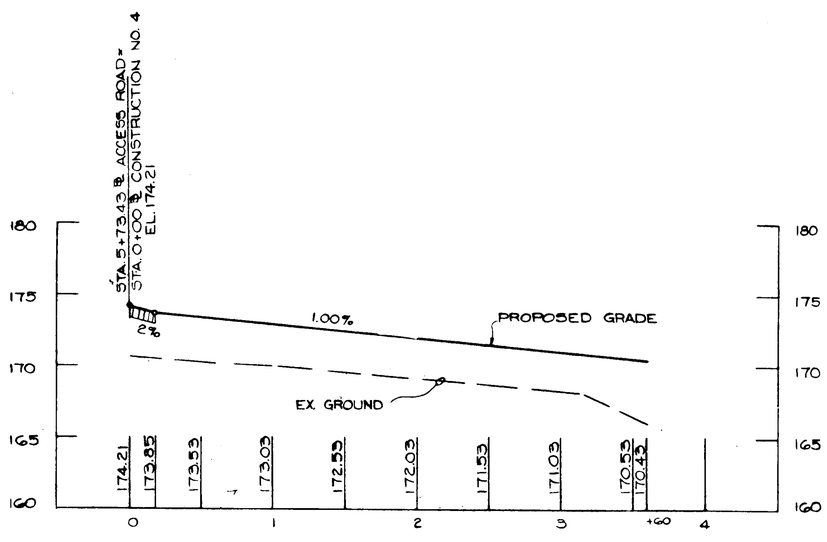
SDP-74-100



ENTRANCE ROAD # 2



℄ CONSTRUCTION NO. 3



℄ CONSTRUCTION NO. 4

SOIL STABILIZATION NOTES

1. Provide 24 hour notice to HSCD and Bureau of Inspection and Permits prior to beginning grading.
2. As soon as roughgrading is completed, areas to be paved will be stabilized with base course material.
3. Sediment control structures are to be constructed and stabilized according to Note 6 prior to any other grading on this site.
4. Sediment control measures are not to be removed without the approval of the Sediment Control Inspector and not until all areas upgrade have been stabilized.
5. Following the removal of Sediment Control measures, the disturbed area will be stabilized immediately in accordance with Note 6.
6. Final Stabilization:

a) Sodding

1. Pulverized dolomitic limestone shall be applied at a minimum rate of 46 lbs. per 1,000 sq. ft.
2. Fertilizer - (10-10-10) or its equivalent shall be distributed evenly over the area to be sodded at a rate of 23 lbs. per 1,000 sq. ft.
3. Lime and fertilizer shall be harrowed or disced into the soil to a depth of 2-3 inches until a uniform bed has been prepared.
4. Sod shall be not less than 50% Kentucky Blue Grass, free from weeds and shall be State "Approved Sod" not less than three (3) years old, machine cut uniform thickness of 3/4 inches (± 1/4 inch) excluding top growth and thatch and shall be installed within 36 hours of harvesting.
5. Sod shall be watered immediately after placement and kept watered for a period of two weeks until growth is assured or until accepted.
6. As sodding is completed in any section the entire area shall be rolled and all cracks between blocks of sod shall be closed with additional sod.

b) Seeding

1. Pulverized dolomitic limestone shall be applied at a rate of 46 lbs. per 1,000 sq. ft.
2. Fertilizer (10-10-10) or its equivalent shall be distributed evenly over the area to be seeded at a rate of 23 lbs. per 1,000 sq. ft.
3. Lime and fertilizer shall be harrowed or disced into the soil to a depth of 2-3 inches until a uniform bed has been prepared.
4. Slopes 3:1 or flatter shall be seeded with a mixture of 1.13 lbs. of Kentucky 31 tall fescue and 0.34 lbs. of Korean lespedeza, inoculated per 1,000 sq. ft. or other approved mixture applied uniformly over the prepared seed bed.
5. Slopes steeper than 3:1 (but not steeper than 2:1) shall be seeded with 0.34 lbs. of Crownvetch and .92 lbs. of Kentucky 31 tall fescue per 1,000 sq. ft. applied uniformly over the prepared seed bed.
6. Seed may be applied with a cyclone seeder, drill or multipacker on a firm moist seed bed. Use of a hydroseeder may be approved in which case the seed and fertilizer shall be included in the slurry.
7. Immediately after seeding, all areas shall be mulched with unweathered small grain straw at the rate of 69 to 92 lbs. per 1,000 sq. ft.
8. All mulched areas shall be anchored using either:
   a. Mulch anchoring tool - a series of flat notched discs which punch the mulch material into the soil.
   b. Asphalt mulch tie-down using liquid asphalt - rapid curing (RC-70, RC-250, or RC-800) or medium-curing (MC-250 or MC 800) at a rate of 0.1 gal. per sq. yd.
   c. Swale areas seeded and mulched shall stabilized using plastic net over the mulch and stapled into the ground at all joints in the net and at intervals between joints to prevent erosion of the seed bed mulch cover.

PROFILE	PLAN SHT.
Entr. Rd. #2	2
℄ Constr. No.3	3
℄ Constr. No.4	2 & 3

SCALE: HORZ. 1"=50'
VERT. 1"=5'

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

COUNTY HEALTH OFFICER — DATE 10/8/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S. C. D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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

Approved Robert W. Zehm Howard S. C. D. — Date 9-30-74

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 8-16-74

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Signature of Engineer — Date 8-16-74

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REMOVE SPECIAL STRUCTURE DETAIL AND REVISE END PIECE DETAIL	5/13/74	W.B.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
3	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74
J. H. Clawson JR

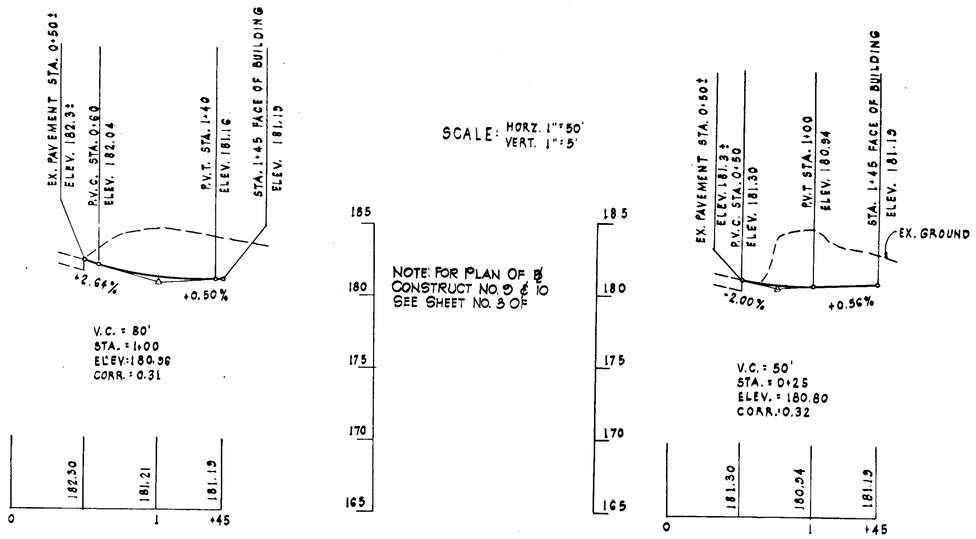
AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 73G640

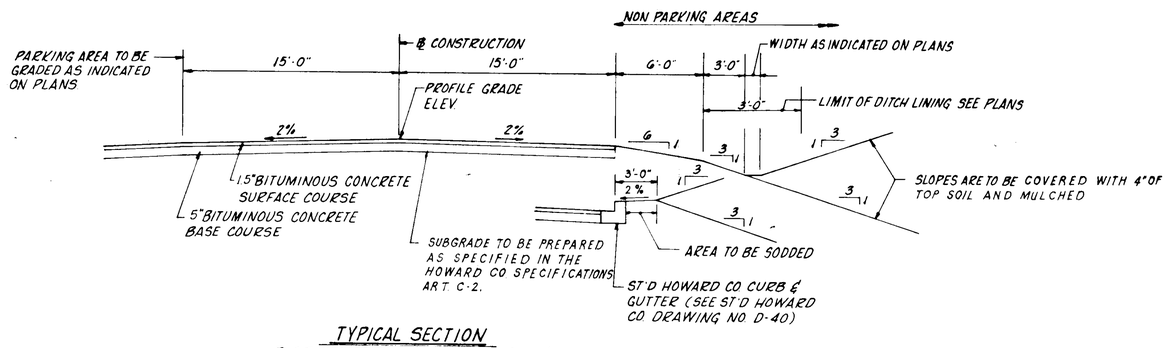
SOIL STABILIZATION NOTES & PROFILES

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

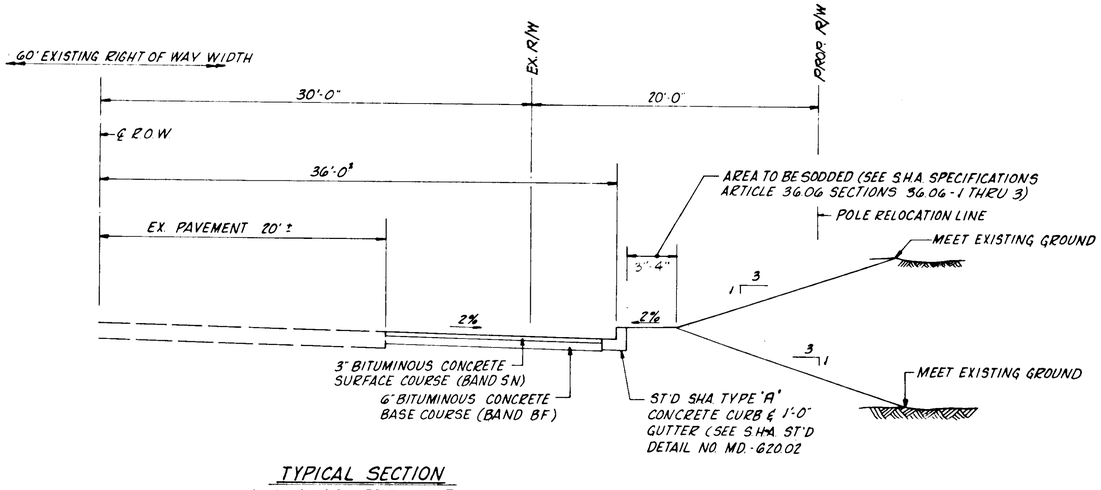


℄ CONSTRUCTION NO. 9

℄ CONSTRUCTION NO. 10

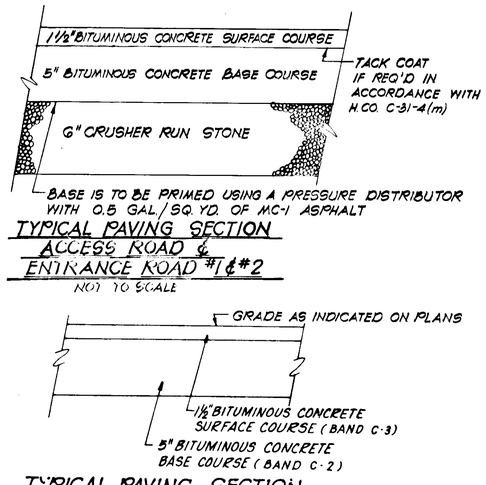


TYPICAL SECTION
℄ OF CONSTRUCTION NO 3,4,5 & 6
SCALE 1"=5'



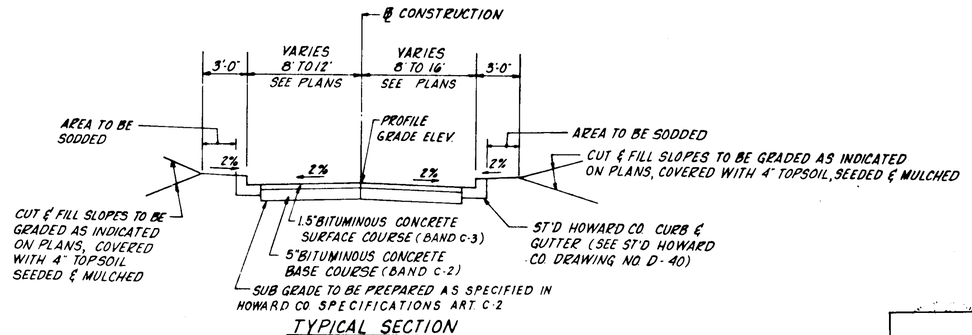
TYPICAL SECTION
ALONG U.S. RTE. ONE
SCALE 1"=5'

NOTES:
1. GRADED SLOPE AREAS ARE TO HAVE 4" OF TOPSOIL, SEEDED & MULCHED (SEE SHA ST'D SPECIFICATIONS ARTICLE 3605 SECTIONS 3605-1 THRU 3.)
2. EXISTING UTILITY POLES ARE TO BE RELOCATED ALONG PROPOSED DEDICATION LINE



TYPICAL PAVING SECTION
ACCESS ROAD & ENTRANCE ROAD #1 & #2
NOT TO SCALE

TYPICAL PAVING SECTION
PARKING LOT & BASE LINES OF CONSTRUCTION NOS. 3,4,5,6,7,8,9 & 10
NOT TO SCALE



TYPICAL SECTION
℄ OF CONSTRUCTION NO. 7 & 8
N.T.S.

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

COUNTY HEALTH OFFICER — DATE 10/4/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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

Approved Robert W. Ziehm Date 9-30-74
Howard S.C.D.

By the Developer:

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Signature of Engineer — Date

ISSUED FOR BIDDING	DATE	BY

ADDENDA REVISIONS		
ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

9/17/74
J. H. Clawson, Jr.

AS BUILT DRAWINGS — DATE — BY

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

SECTION OR DETAIL No. — SHEET ON WHICH DETAIL APPEARS

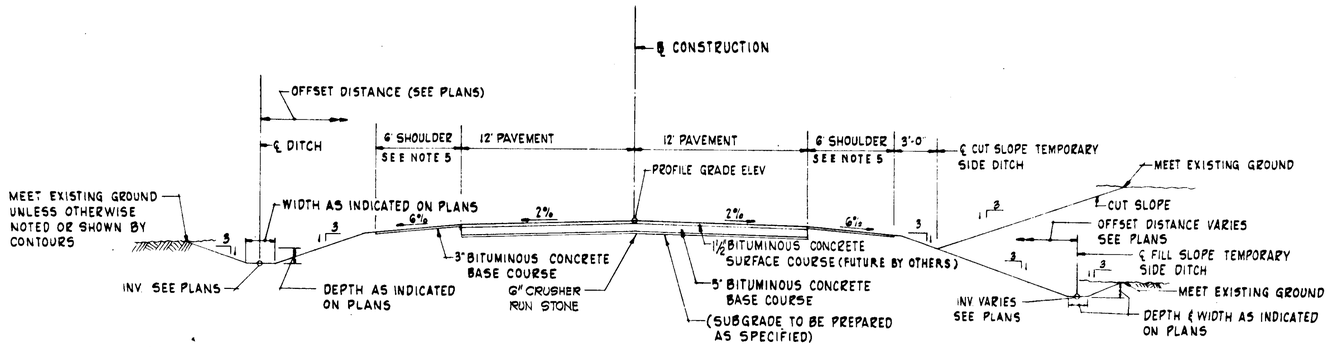
DRAWN F.W.G.	DATE 4-12-74
CHECKED L.C.P.	JOB No. 73G640

PROFILES & SECTIONS

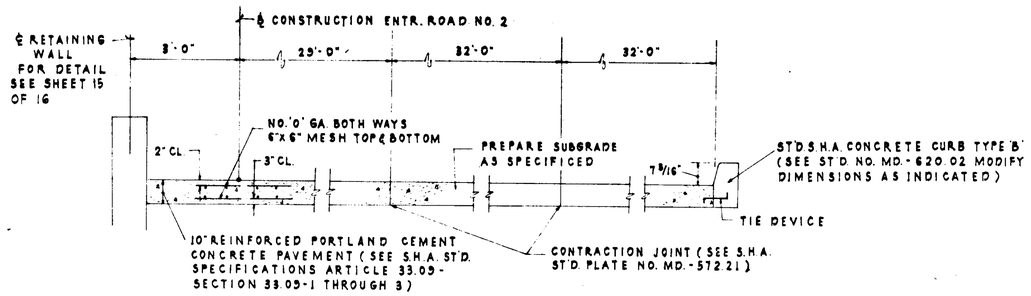
ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

SHEET 7 OF 16

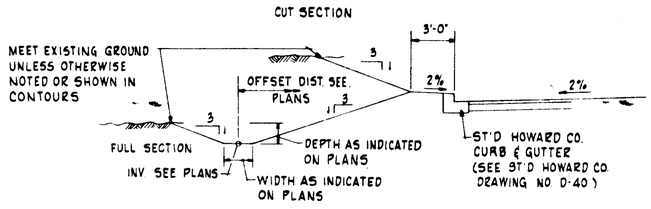
SDP-74-100



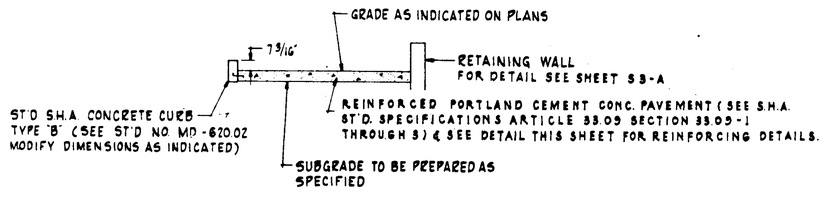
TYPICAL OPEN SECTION
MAIN ACCESS ROAD
Scale: 1"=5'-0"



TYPICAL SECTION
CONCRETE APRON - ENTR. ROAD NO. 2
SCALE: 1/2"=1'-0"



TYPICAL CURB & GUTTER SECTION
SCALE: 1"= 5'-0"



TYPICAL RAMP SECTION
N. T. S.

STORM WATER DETENTION BASIN AND SITE CONSTRUCTION SPECIFICATIONS

1. SITE PREPARATION

Areas under the embankment and any structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. In order to facilitate clean out and restoration, the permanent pool area shall be cleared of all brush and trees.

2. EARTH FILL

a. Material- The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased 1'-0" as shown on the plans.

b. Placement- Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8" maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

c. Compaction- The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture so that it can be formed into a ball without crumbling. if water can be squeezed out of the ball, it is too wet to compact properly.

3. 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 (4) inches in thickness and compacted by hand tampers or other compaction equipment. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four (4) feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four (24) inches or greater over the structure or pipe.

4. PIPE CONDUITS

a. CORRUGATED METAL PIPE

1. Materials- (Steel Pipe)- This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHO 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. The drain pipe or barrel connection to the riser shall be welded all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in a manner as to be completely watertight by a continuous watertight weld.

3. Bedding- The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. Laying pipe- The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.

5. Backfilling shall conform to structural backfill as shown above.

6. Other details- (anti-seep collars, valves, etc.) shall be as shown on the drawings.

b. REINFORCED CONCRETE PIPE

1. Materials- Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361.

2. Laying pipe- Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed on the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

3. Backfilling shall conform to structural backfill as shown above.

4. Other details- (anti-seep collars, valves, etc.) shall be as shown on the drawings.

5. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Roads Commission Specifications for Materials, Highways, Bridges and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Class A-1 or P-1.

6. CHANNEL LINING

Channel lining for ditch shall be as indicated on the plans for the depth specified. 2'-0" of sod is to be placed at the top of all concrete lined ditches.

7. CUT & FILL SLOPES AND DITCHES

All cut & fill slopes and ditches are to be seeded and stabilized according to note 6 on sheet No. 6 of 16.

8. SOLID STABILIZATION MATTING

Solid stabilization matting ditch lining shall be as specified in the S.H.A. Std. Specifications (March, 1968) Article 30.16 Sections 36.10-1 through 3.

9. CURB & GUTTER AND SHOULDER CROSS SLOPE

Transition shoulder cross slope (6%) to meet curb & gutter section cross slope (2%) in 20 L. F. from end of curb.

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

COUNTY HEALTH OFFICER — DATE 10/8/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S. C. D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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Approved Howard S. C. D. Date 9-30-74

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Signature of Engineer — Date

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	SEDIMENT CONTROL DATA REVISED	5/13/74	W.B.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
3	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.J.W.
4	REVISED IN ACCORDANCE WITH HOWARD SOIL CONSERVATION DIS. COMMENTS	9/13/74	M.W.

APPROVED
DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING
9/17/74
J. H. Clawson

AS BUILT DRAWINGS — DATE — BY

AMERICAN INSTRUMENT CO.
DIVISION OF TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL
SECTION OR DETAIL NO.
SHEET ON WHICH DETAIL APPEARS

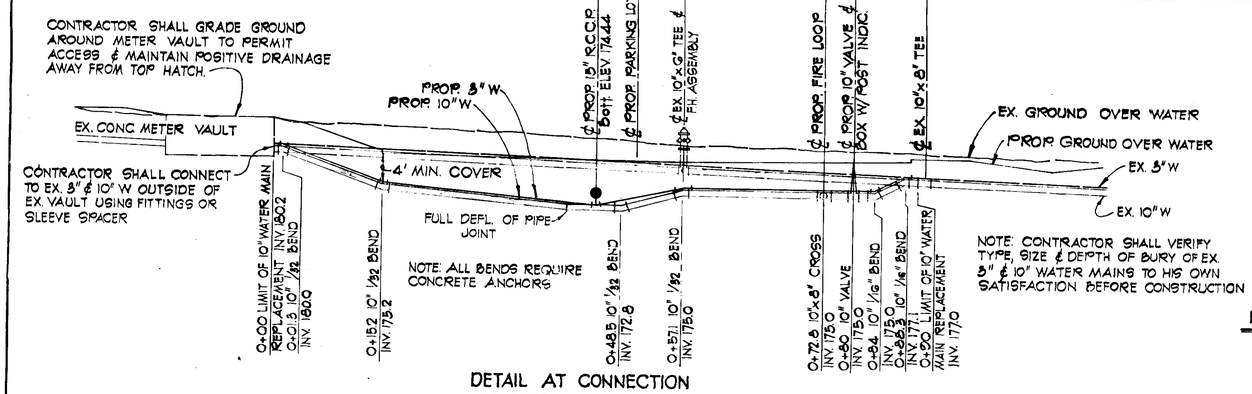
DRAWN F.W.G. DATE 4-12-74
CHECKED L.C.P. JOB No. 73GG40

SECTIONS

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

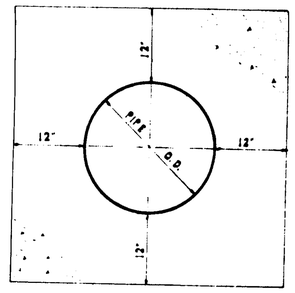
SHEET 8 OF 16

SDP-74-100



DETAIL AT CONNECTION TO EXISTING WATER

SCALE: HORIZ. 1"=10'
VERT. 1"=10'



DETAIL - CONCRETE ENCASEMENT

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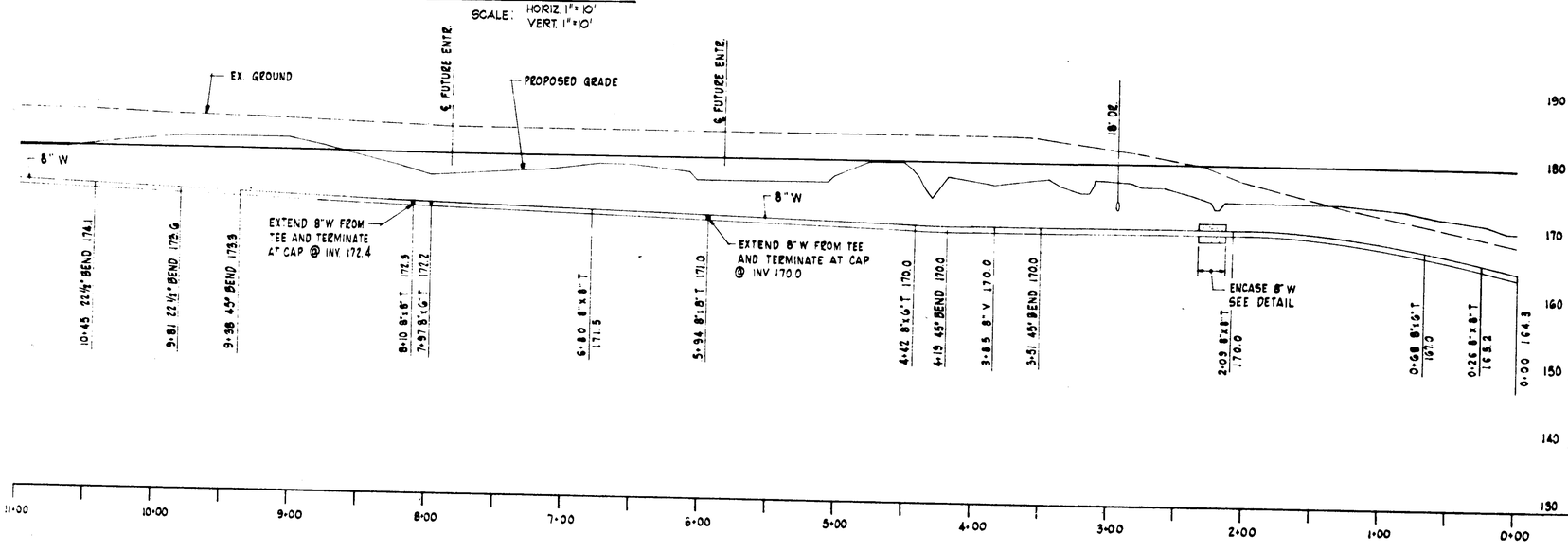

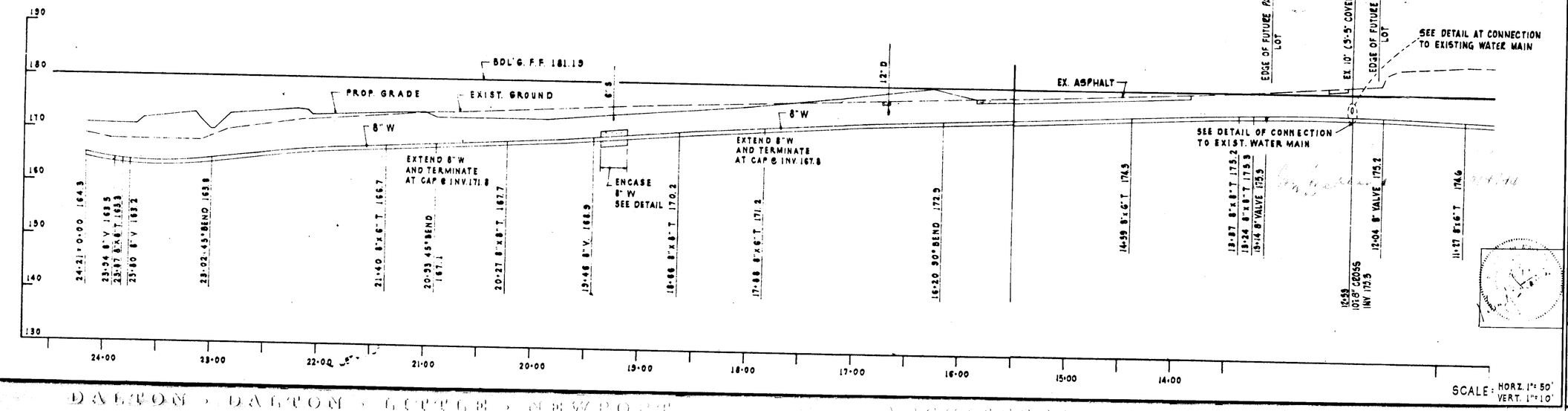

SCALE: HORZ. 1"= 50'
VERT. 1"= 10'

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

COUNTY HEALTH OFFICER — DATE 10-10-74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D.
NAME
and meets Technical Requirements
Date 9-30-74
Signature
U. S. Soil Conservation Service

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Howard S. C. D.

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Signature of Engineer — Date 9-16-74

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74
J. H. Clawson

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

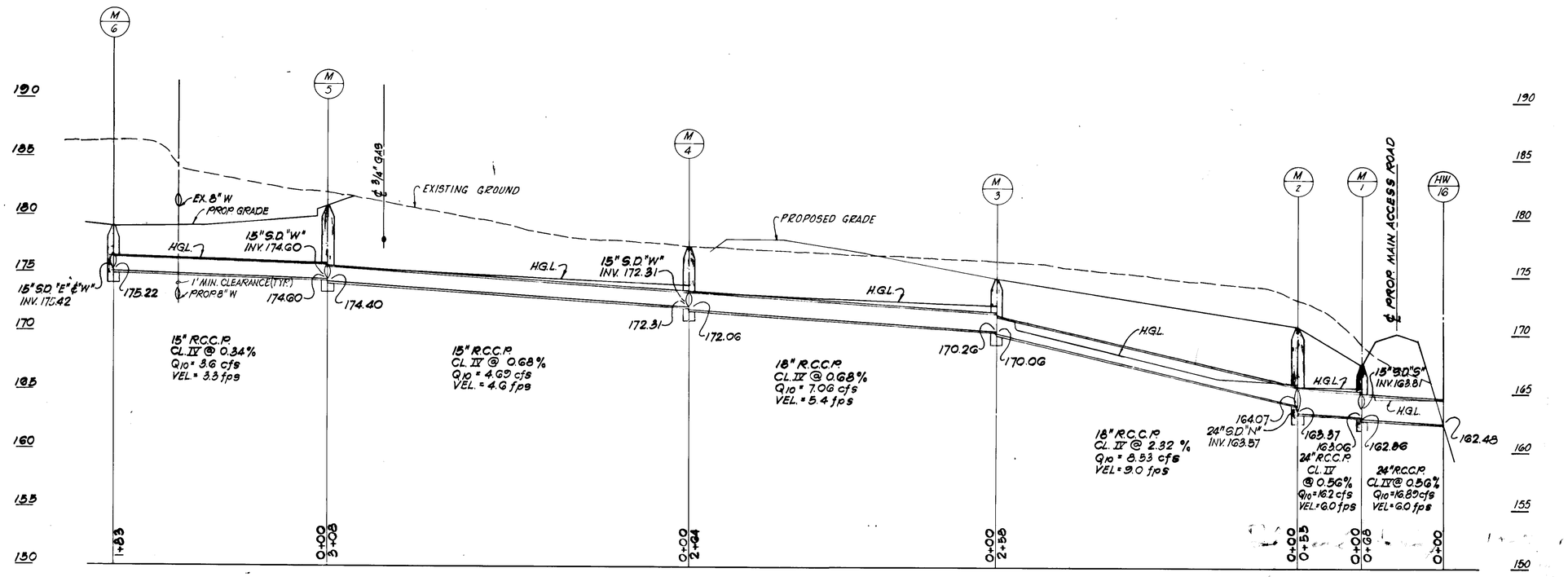
DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 73GG40

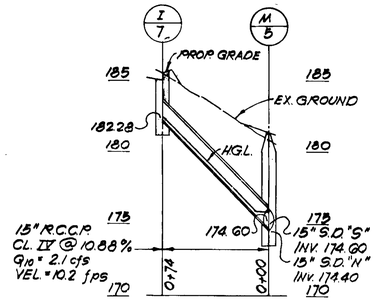
FIRE LOOP PROFILES & DETAILS

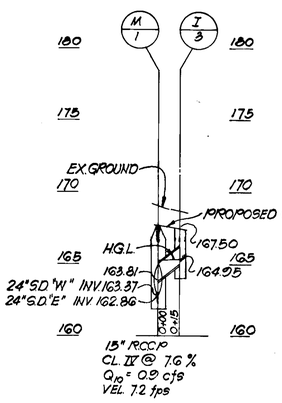
ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

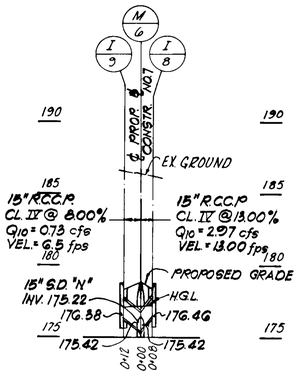
SHEET 9 OF 16

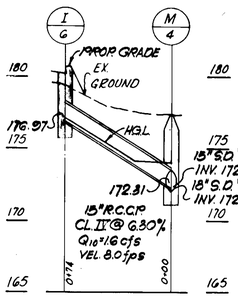
SDP-74-100

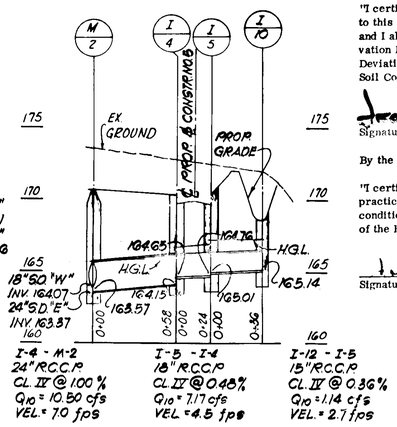












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Signature of Engineer — Date

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

COUNTY HEALTH OFFICER — 10/8/74 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — 10-8-74 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — 10/8/74 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — 10/4/74 DATE

CHIEF, BUREAU OF HIGHWAYS — 10/4/74 DATE

Reviewed for Howard S. C. D. NAME and meets Technical Requirements

Signature — Date 9-30-74

U. S. Soil Conservation Service

SCALE: HORZ. 1" = 50' VERT. 1" = 5'

ISSUED FOR BIDDING	DATE	BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.

AS BUILT DRAWINGS	DATE	BY

9/17/74 J. H. Clawson

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 165

SECTION SYMBOL

SECTION OR DETAIL No. — SHEET ON WHICH DETAIL APPEARS

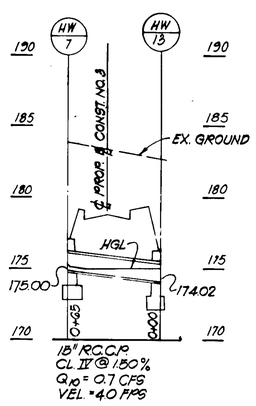
DRAWN F.W.G.	DATE 4-12-74
CHECKED L.C.P.	JOB No. 73GG40

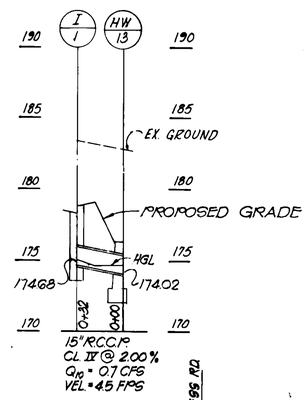
STORM DRAIN PROFILES

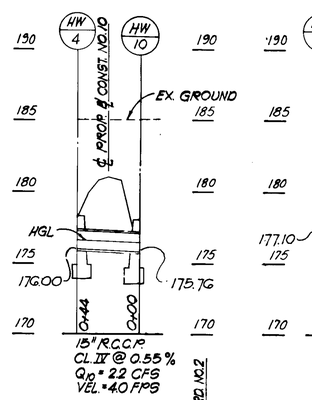
ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

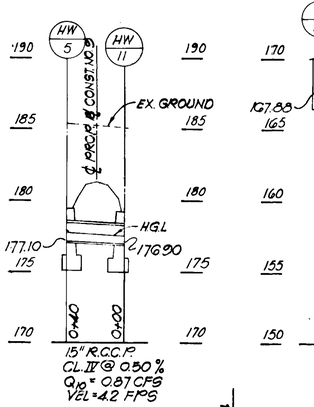
SHEET 10 OF 16

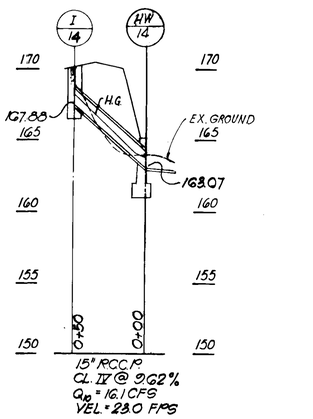
SDP-74-100

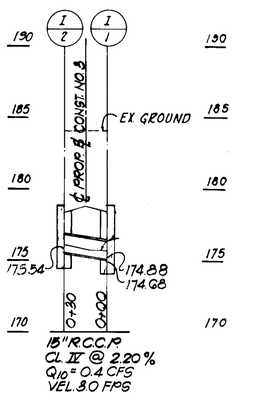


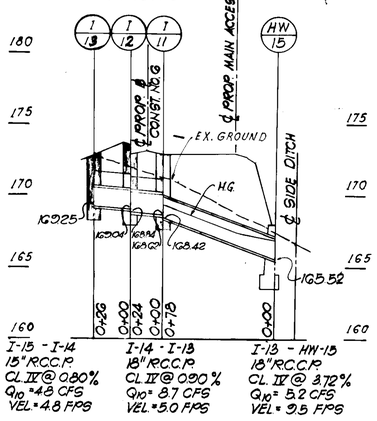


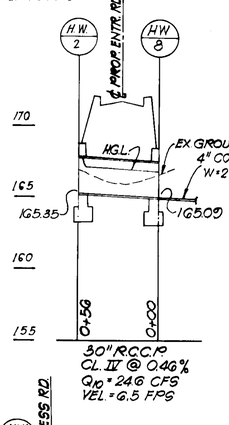


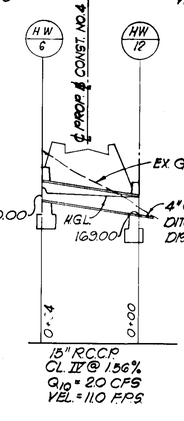


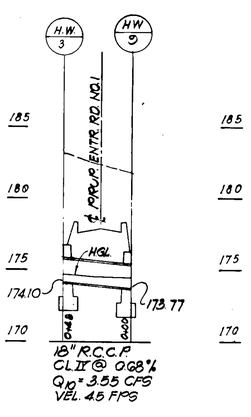


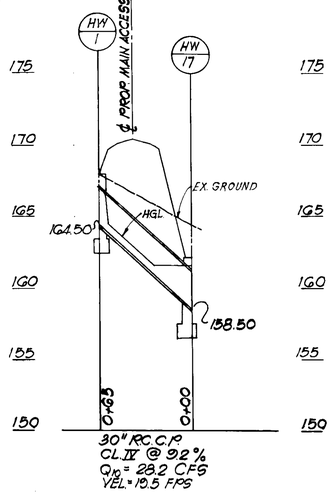












APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 10-4-74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S. C. D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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

Approved Robert W. Tschan Date 9-30-74
Howard S. C. D.

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-16-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 9/16/74

SCALE: HORZ. 1" = 50'
VERT. 1" = 5'

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED PIPE PROFILE	5/13/74	W.B.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
3	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74 J. H. Dawson III

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

DRAWN F.W.G. | DATE 4-12-74
CHECKED L.C.P. | JOB No. 73GG40

STORM DRAIN PROFILES

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

STORM DRAINAGE DESIGN COMPUTATION - DESIGN STORM FREQUENCY 10 YEARS

LOCATION FROM	LOCATION TO	AREA	ACRES SUB.	ACRES TOTAL	COEFF. "C"	CA	ΣCA	TIME CONC. MIN. INLET	TIME CONC. MIN. DRAIN	TIME CONC. MIN. TOTAL	INTEN "I"	Q=CIA C.F.S.	PIPE n=0.013 SIZE	PIPE n=0.013 SLOPE	PIPE n=0.013 VEL.	PIPE n=0.013 LENGTH	REMARKS
I-9	M-6	2	—	0.4	.35	—	0.14	10.6	—	10.6	5.2	0.73	15"	8.0	6.5	12	
I-8	M-6	1	—	1.50	.44	—	0.66	22.44	—	22.44	4.5	2.97	15"	13.0	13	8	
M-6	M-5	1 & 2	—	1.59	.5	—	0.80	22.44	.02	22.46	4.5	3.6	15"	.34	3.3	183	
I-7	M-5	5	.31	.31	.95	.29	0.29	5.0	—	5.0	7.0	2.1	15"	10.38	10.2	74	
M-5	M-4	1,2,5	—	1.90	.57	—	1.09	22.44	.34	23.38	4.3	4.69	15"	4.8	4.6	308	
I-6	M-4	6	2	2	.95	.19	0.19	5.0	—	5.0	7.0	1.3	15"	6.3	8.0	74	
Roof	M-4	4	.423	423	.95	.40	0.40	1.8	—	1.8	10	4.0	—	—	—	—	
M-4	M-3	12,4,5,6	—	2.5	.67	—	1.68	22.44	2.06	24.5	4.2	7.06	18"	.68	5.4	264	
Roof	M-3	3	.423	423	.95	.40	40	1.8	—	1.8	10	4.0	—	—	—	—	
M-3	M-2	1,2,3,4,5,6	—	2.9	.71	—	2.08	22.44	2.88	25.32	4.1	8.53	18"	2.32	9.0	258	
I-10	I-5	13	.44	.44	.46	.20	—	12.4	—	12.4	5.7	1.14	15"	.36	2.7	40	
—	I-5	7	1.14	1.14	.95	1.08	—	5.4	—	5.4	6.9	7.45	—	—	—	—	
I-5	I-4	13 & 7	—	1.58	0.81	—	1.28	12.4	.25	12.65	5.6	7.17	18"	.48	4.5	24	
I-4	M-2	13,7,8	—	3.08	.61	—	1.87	12.4	.34	12.74	5.6	10.47	24"	1.0	7.0	58	
M-2	M-1	1,2,3,4,5,6,12,13	—	5.98	.66	—	3.95	22.44	3.34	25.78	4.1	16.20	24"	.56	6.0	55	
I-3	M-1	9	.66	.66	.26	.17	.17	16.3	—	16.3	5.2	0.9	15"	1.2	7.2	15	
M-1	HW-16	1,2,3,4,5,6,12,9,13	—	6.64	.62	—	4.12	22.44	3.49	25.93	4.1	16.89	24"	.56	6.0	68	
I-18	I-12	10	—	2.14	.19	—	0.40	23.4	—	23.4	4.5	1.8	15"	0.80	4.8	26	
I-12	I-11	10,11	—	2.34	.25	—	.59	23.4	.1	23.5	4.5	2.7	15"	0.90	5.0	24	
I-11	HW-15	10,11,12	—	2.35	.30	—	1.16	23.5	.1	23.6	4.5	5.2	18"	3.72	9.5	78	
I-2	I-1	14	.10	—	.64	.06	—	10.9	—	10.9	5.9	0.4	—	—	—	—	
—	I-1	15	.06	—	.95	.06	.06	5.0	—	5.0	7.0	0.4	—	—	—	—	
I-1	HW-13	14,15	.16	—	.75	.12	0.12	10.9	.01	11.0	5.9	0.7	—	—	—	—	
I-14	HW-14	16	2.57	—	.92	2.36	—	6.2	—	6.2	6.8	16.0	15"	2.62	2.30	56	

HEADWALL DESIGN

LOCATION FROM	LOCATION TO	AREA NO.	ACRES SUB.	ACRES TOT.	COEFF. "C"	CA	ΣCA	TIME CONC. MIN. INLET	TIME CONC. MIN. DRAIN	TIME CONC. MIN. TOT.	INTEN. "I"	Q=CIA CFA	ENTRANCE CONTROL HW/D	ENTRANCE CONTROL HW ELEV.	ENTRANCE CONTROL ENT. TYPE	PIPE n=.013 SIZE	PIPE n=.013 SLOPE	PIPE n=.013 VEL.	PIPE n=.013 LENGTH	REMARKS
HW1	HW17	17-21	—	8.04	.60	—	5.58	17.3	.03	17.33	5.1	28.2	0.82	164.50	(2)	30"	3.2%	19.5	65'	
HW2	HW8	17-20	—	7.24	.67	—	4.84	15.1	2.2	17.3	5.1	24.6	1.05	165.35	(2)	30"	0.40%	6.5	56'	
HW3	HW9	17-19	—	1.62	.41	—	0.67	13.1	2.0	15.1	5.3	3.55	0.68	174.10	(2)	18"	0.68%	4.5	48'	
HW4	HW10	17-18	—	1.03	.38	—	0.39	11.5	1.6	13.1	5.6	2.2	0.68	176.00	(2)	15"	0.55%	4.0	44'	
HW5	HW11	17	—	.45	—	—	0.15	11.5	—	11.5	5.8	0.87	0.50	177.10	(2)	12"	0.5%	4.2	40'	
HW6	HW12	14,15,20,23	—	4.9	.71	—	0.35	12.1	1.3	13.4	5.7	2.0	0.63	177.00	(2)	15"	1.47%	11.0	68'	
HW7	HW13	22	—	.21	.58	—	0.12	12.1	—	12.1	5.8	0.7	0.50	175.00	(2)	15"	1.5%	4.0	65'	
EX 36"	PIPE	1-23		25.37			14.87			30.3	3.7	55	1.30	155.00	(3)	36"	5.56%	19.5	18	EXISTING n=0.15

HEADWALL SCHEDULE

NO.	TYPE	INV. ELEV.	LOCATION STATION	LOCATION OFFSET	LOCATION ℄ OF CONSTRUCTION
HW1	B	164.50	7+75	25' LT.	ACCESS RD.
HW2	B	165.35	0+50	26' LT.	ENT. RD. #2
HW3	B	174.10	0+52	21' LT.	ENT. RD. #1
HW4	B	176.00	0+80	22' LT.	℄ NO.10
HW5	B	177.10	0+88	22' LT.	℄ NO.9
HW6	B	170.00	0+33	40' RT.	℄ NO.4
HW7	B	175.00	0+33	28' RT.	℄ NO.3
HW8	B	165.09	0+50	30' RT.	ENT. RD. #2
HW9	B	173.77	0+52	26' RT.	ENT. RD. #1
HW10	B	175.76	0+80	23' RT.	℄ NO.10
HW11	B	176.30	0+88	17' RT.	℄ NO.9
HW12	B	169.00	0+52	25' LT.	℄ NO.4
HW13 DOUBLE	B	174.02	0+39	37' LT.	℄ NO.3
HW14	B	163.07	3+57	33' LT.	℄ NO.4
HW15	B	165.52	15+74	30' RT.	ACCESS RD.
HW16	B	162.78	9+20	38' RT.	ACCESS RD.
HW17	B	158.50	7+75	42' RT.	ACCESS RD.

NOTE: FOR TYPE "B" HEADWALL SEE HOWARD COUNTY STANDARD DETAIL NO. SDD 21

MANHOLE SCHEDULE

NO.	TYPE	INV. ELEV.	TOP ELEV.	LOCATION STATION	LOCATION OFFSET	LOCATION ℄ OF CONSTRUCTION
M-1	TYPE A-3	162.86	167.70	0+55	25' LT.	ACCESS RD.
M-2	TYPE A-2 PRECAST	163.37	170.80	3+02	62' LT.	ACCESS RD.
M-3	TYPE A-3 PRECAST	170.06	174.00	2+80	37' LT.	NO. 5
M-4	TYPE A-3 PRECAST	172.06	176.70	SEE	PLANS	—
M-5	TYPE A-2 PRECAST	174.40	180.90	SEE	PLANS	—
M-6	TYPE A-3 PRECAST	175.22	179.17	3+15	0'	NO.7

NOTE: FOR TYPE A-2 & A-3 PRECAST MANHOLE SEE HOWARD COUNTY STANDARD DETAIL NO. SDD 8

INLET SCHEDULE

NO.	TYPE	INV. ELEV.	TOP ELEV. GRATE	LOCATION STATION	LOCATION OFFSET	LOCATION ℄ OF CONSTRUCTION	CONSTRUCTION	HOWARD CO. STD. DETAIL
I-1	SINGLE "S" COMB.	174.68	178.50	0+67	15' LT.	NO. 3	UNDERPRESSED	SDD 44
I-2	SINGLE "S" COMB.	175.54	178.50	0+67	15' RT.	NO. 3	UNDERPRESSED	SDD 44
I-3	YARD	164.95	167.50	9+45	24.1 LT.	ACCESS RD.	—	SDD 43
I-4	SINGLE "S" COMB.	164.45	169.61	0+48	12' LT.	NO.5	DEPRESSED	SDD 44
I-5	SINGLE "S"	165.01	169.61	0+48	12' RT.	NO.5	DEPRESSED	SDD 44
I-6	SINGLE "S"	176.21	180.28	SEE	PLANS		UNDERPRESSED	SDD 44
I-7	DOUBLE "S" COMB.	182.28	184.83	SEE	PLANS		UNDERPRESSED	SDD 47
I-8	DOUBLE "S" COMB.	176.46	178.79	3+15	8' RT.	NO.7	UNDERPRESSED	SDD 47
I-9	SINGLE "S"	176.38	178.71	3+15	12' LT.	NO.7	UNDERPRESSED	SDD 44
I-10	YARD	165.14	168.50	11+00	24' LT.	ACCESS RD.	—	SDD 43
I-11	DOUBLE "S" COMB.	168.42	172.88	0+48	12' LT.	NO.6	UNDERPRESSED	SDD 47
I-12	SINGLE "S" COMB.	168.84	172.88	0+48	12' RT.	NO.6	UNDERPRESSED	SDD 44
I-13	YARD	169.25	172.80	0+48	40' RT.	NO.6	—	SDD 43
I-14	DOUBLE "S" COMB.	167.88	170.13	3+60	15' RT.	NO.4	DEPRESSED	SDD 47

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

COUNTY HEALTH OFFICER — DATE 10/1/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S. C. D.
NAME
and meets Technical Requirements
Date 9-30-74
Signature
U. S. Soil Conservation Service

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

Approved Robert W. Richm Date 9-30-74
Howard S. C. D.

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — 4-16-74 Date

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — 4.16.74 Date

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74
J. H. Clawson JR

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

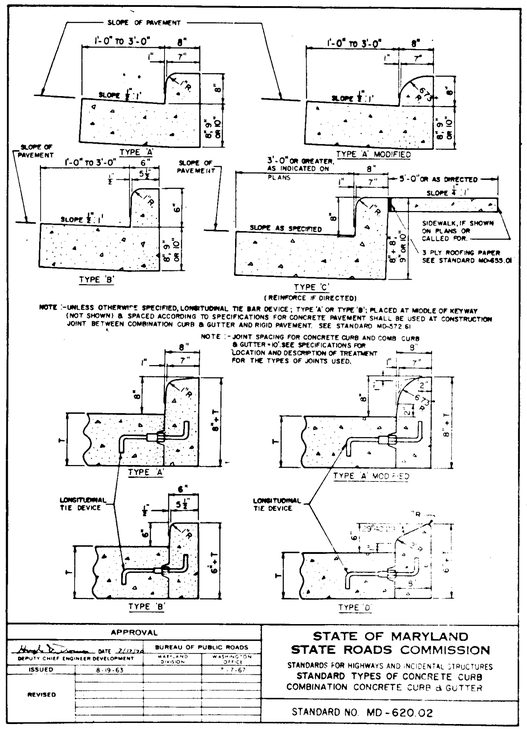
DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 736640

DRAINAGE INFORMATION

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE, MARYLAND

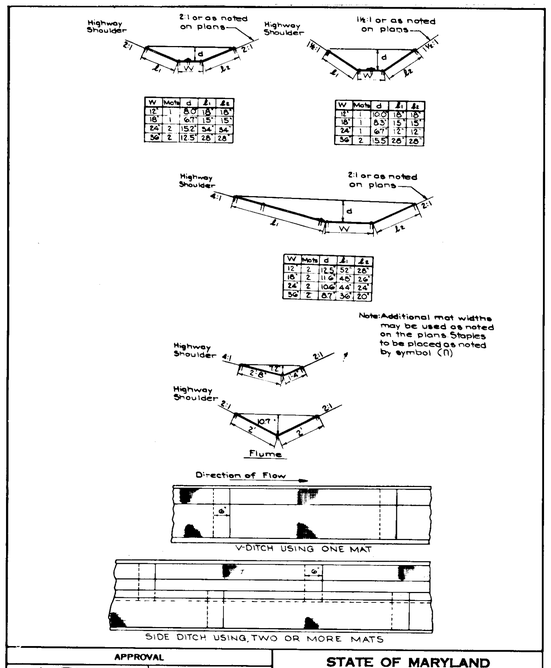
DALTON, DALTON, LITTLE - NEWPORT — ENGINEERS - PLANNERS - SURVEYORS

SHEET 12 OF 16



APPROVAL		BUREAU OF PUBLIC ROADS	
DEPUTY CHIEF ENGINEER-DEVELOPMENT		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	8-19-63		7-7-67
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD TYPES OF CONCRETE CURB COMBINATION CONCRETE CURB & GUTTER
STANDARD NO. MD-620.02



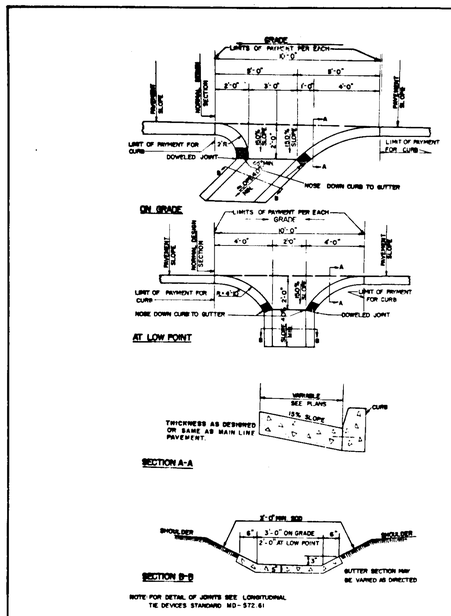
W	Mats	d	Z1	Z2
12'	1	8.0'	16'	16'
18'	1	6.7'	15'	15'
24'	2	15.2'	34'	34'
36'	2	12.5'	28'	28'

W	Mats	d	Z1	Z2
8'	1	10.0'	18'	18'
18'	1	8.3'	15'	15'
24'	1	6.7'	12'	12'
36'	2	15.5'	28'	28'

W	Mats	d	Z1	Z2
12'	2	12.5'	22'	22'
18'	2	11.0'	20'	20'
24'	2	10.6'	44'	24'
36'	2	8.7'	36'	20'

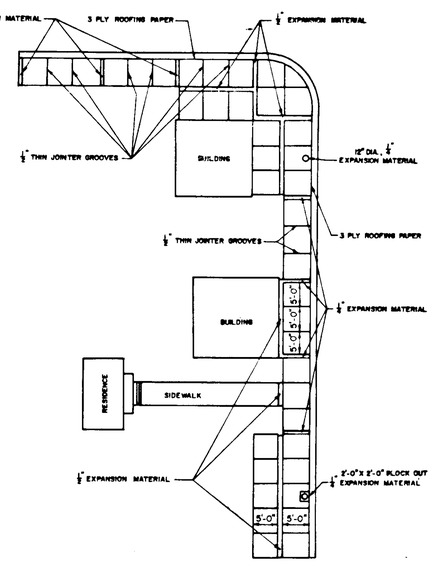
APPROVAL		BUREAU OF PUBLIC ROADS	
DEPUTY CHIEF ENGINEER-DEVELOPMENT		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	6-22-61		9-28-61
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SOIL STABILIZATION MATTING
DRAINAGE DITCHES
STANDARD NO. MD-708.02



APPROVAL		BUREAU OF PUBLIC ROADS	
DEPUTY CHIEF ENGINEER-DEVELOPMENT		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	10-17-63		6-9-64
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD CURB OPENING DETAIL
CURB SECTION
STANDARD NO. MD-640.01



APPROVAL		BUREAU OF PUBLIC ROADS	
DEPUTY CHIEF ENGINEER-DEVELOPMENT		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	3-21-64		6-9-64
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SIDEWALK EXPANSION JOINTS
STANDARD NO. MD-655.01

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

COUNTY HEALTH OFFICER — DATE 10-8-74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D.
NAME
and meets Technical Requirements
Signature
U. S. Soil Conservation Service — Date 9-30-74

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

Approved Howard S.C.D. Date 9-30-74

By the Developer:

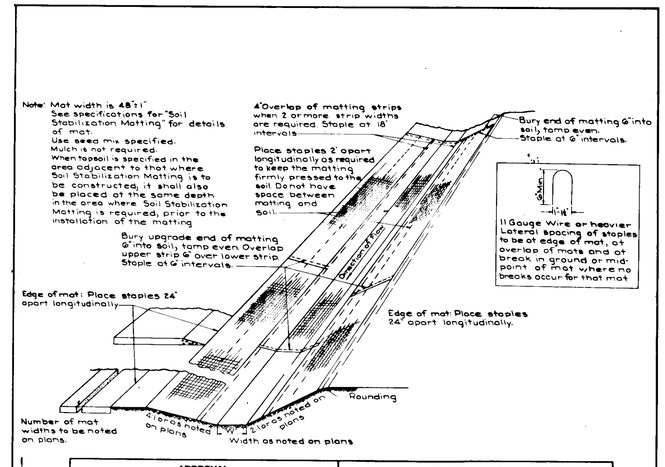
"I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-16-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 9-16-74



APPROVAL		BUREAU OF PUBLIC ROADS	
DEPUTY CHIEF ENGINEER-DEVELOPMENT		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	6-22-61		9-28-61
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SOIL STABILIZATION MATTING
DRAINAGE DITCHES
STANDARD NO. MD-708.01

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.

9/17/74
J.H. Clawson Jr.

AS BUILT DRAWINGS — DATE — BY

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 730640

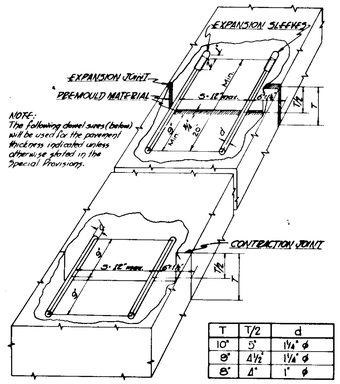
DETAILS

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

1. Dowels shall be assembled in a rigid framework of a length equal to a lane width. The expansion joint framework shall provide adequate support to maintain the premolded joint filler in proper horizontal and vertical alignment.
2. The framework shall be strong enough to support a 200 pound concentrated load without deformation or failure.
3. Anchor pins shall be used to secure the framework against any movement along the subgrade.
4. The dowels and supporting framework shall be stable against overturning, independent of any anchor pins, and upon application of the 200 pound concentrated load they shall not be depressed below their normal position in the pavement slab.
5. The free moving or unanchored end of all dowel bars in both contraction and expansion joints shall be coated, after installation of the device upon the sub-grade and immediately prior to the pouring of the concrete, with graphite grease applied with a gloved hand. This same end of all expansion joint dowel bars shall be capped with a snug fitting, closed end, metal expansion sleeve temporarily secured to the bar so as to provide a 1" long open socket beyond the bar end and to lap back 2" on the bar at the time of installation.

EXPANSION JOINT ONLY:

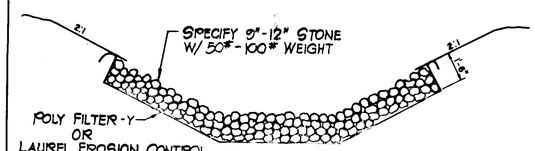
Dowel bar to be minimum length of 20". If bar is not centered, the long side shall be the free end.



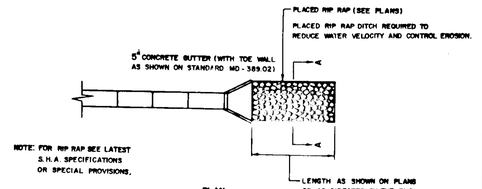
T	T/2	d
10"	5"	1¼" ϕ
8"	4½"	1¼" ϕ
6"	4"	1" ϕ

APPROVAL			
Hugh L. Dawson DATE 11/70 DEPUTY CHIEF ENGINEER DEVELOPMENT		BUREAU OF PUBLIC ROADS	
		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	1-11-61		1-10-62
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
REINFORCED CONCRETE PAVEMENT
REQUIREMENTS FOR LOAD TRANSFER DEVICES
STANDARD NO. MD-572.21



SECTION A-A



PLAN

GENERAL NOTE:
ALL DIMENSIONS AND LOCATIONS NOT INDICATED, FOR ITEMS APPEARING ON THIS SHEET OR ON THE PLANS, SHALL BE DIRECTED BY THE ENGINEER.

APPROVAL			
Hugh L. Dawson DATE 12/6/72 DEPUTY CHIEF ENGINEER DEVELOPMENT		FEDERAL HIGHWAY ADMINISTRATION	
		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED		7-13-71	11-3-71
REVISED	7-1-71		
	3-8-73	3-16-73	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SEDIMENT AND EROSION CONTROL
PLACED RIP-RAP DITCH
STANDARD NO. MD-389.21

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

COUNTY HEALTH OFFICER — DATE 10/8/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D.
NAME
and meets Technical Requirements
Signature — Date 9-30-74
U. S. Soil Conservation Service

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

Approved Robert W. Zielman Date 9-30-74
Howard S.C.D.

By the Developer:

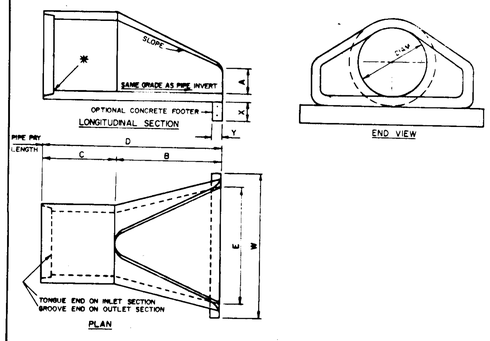
"I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 9-16-74

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 1-16-74



NOTES:

1. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS II PIPE
2. CONCRETE FOOTER SHALL BE USED WHEN SPECIFIED ON THE PLANS. COST OF CONCRETE FOOTER TO BE PAID PER CUBIC YARD OF CLASS P-I CONCRETE FOR MISCELLANEOUS STRUCTURES. REINFORCEMENT TO BE NO. 3 BARS.
* INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON CONSTRUCTION PLANS.

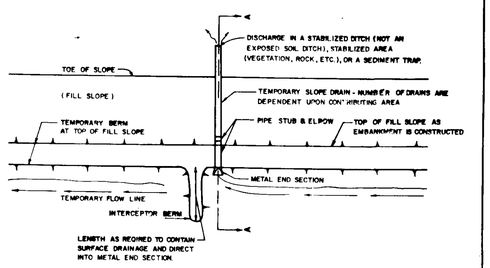
TABLE OF DIMENSIONS

	CONCRETE END SECTION						CONCRETE FOOTER		
DIAM.	SLOPE	A	B	C	D	E	W	X	Y
12"	3:1	4"	2'-0"	4'-0½"	6'-0½"	2'-0"	3'-0"	12"	5"
15"	3:1	6"	2'-3"	3'-10"	6'-1"	2'-6"	3'-6"	12"	9"
18"	3:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	4'-0"	12"	9"
21"	3:1	9"	3'-0"	3'-11½"	6'-11½"	3'-6"	4'-6"	12"	9"
24"	3:1	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	5'-0"	15"	9"
27"	3:1	10½"	4'-1½"	2'-0"	6'-1½"	4'-6"	5'-6"	15"	9"
30"	3:1	1'-0"	4'-6"	1'-7½"	6'-1½"	5'-0"	6'-0"	15"	9"
36"	3:1	1'-3"	5'-3"	2'-10½"	8'-1½"	6'-0"	7'-3"	15"	9"
42"	3:1	1'-6" or 1'-3"	5'-3"	2'-11"	8'-2"	6'-6"	7'-9"	15"	9"
48"	3:1	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	8'-6"	18"	12"
54"	2:1	2'-3"	5'-5"	2'-9½"	8'-2½"	7'-6"	9'-0"	18"	12"

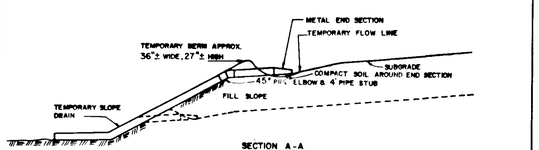
NOTE CONTRACTOR HAS OPTION OF FURNISHING END SECTIONS CONFORMING TO DETAILS ON THIS SHEET OR END SECTIONS CONFORMING TO DETAILS ON STANDARD MD-368.01.

APPROVAL			
Hugh L. Dawson DATE 8-10-72 DEPUTY CHIEF ENGINEER DEVELOPMENT		FEDERAL HIGHWAY ADMINISTRATION	
		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	11-23-65		7-7-67
REVISED	8-11-70	9-8-70	10-1-70

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD CONCRETE END SECTION
ROUND CONCRETE PIPE
STANDARD NO. MD-368.02



PLAN



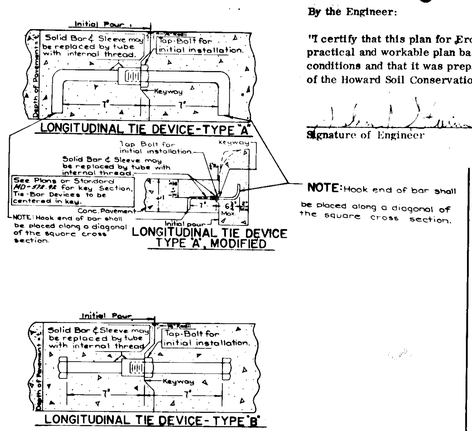
SECTION A-A
(FOR FILL SLOPES)

TEMPORARY SLOPE DRAIN SHALL BE USED AT THE TOP OF FILL SLOPE AS EMBANKMENT IS CONSTRUCTED TO PREVENT EXCESSIVE EROSION UNTIL SHOULDERS ARE CONSTRUCTED AND THE SLOPES ARE SEEDED AND MULCHED.

GENERAL NOTE:
ALL DIMENSIONS AND LOCATIONS NOT INDICATED, FOR ITEMS APPEARING ON THIS SHEET OR ON THE PLANS, SHALL BE DIRECTED BY THE ENGINEER.

APPROVAL			
Hugh L. Dawson DATE 12/6/72 DEPUTY CHIEF ENGINEER DEVELOPMENT		FEDERAL HIGHWAY ADMINISTRATION	
		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	7-1-71	7-13-71	11-3-71
REVISED			

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SEDIMENT AND EROSION CONTROL
TEMPORARY SLOPE DRAIN
STANDARD NO. MD-388.02



MATERIAL: Malleable Iron or Steel. See Specs. or Spec. Prov. for Total strength requirements.

NOTES: Any similar device may be submitted for consideration of the Engineer. If the general type of a substitution is approved, the device must still meet the strength requirements appearing in the Specifications or Special Provisions.

The portion of the device initially installed must be held firmly in place by top-bolts inserted through drilled holes. If holes in the forms have been formed by any other method than drilling, then steel washers must be used, in addition to the top-bolts, as directed by the Engineer.

APPROVAL			
Hugh L. Dawson DATE 11/70 DEPUTY CHIEF ENGINEER DEVELOPMENT		BUREAU OF PUBLIC ROADS	
		MARYLAND DIVISION	WASHINGTON OFFICE
ISSUED	6-15-64		7-21-65
REVISED			

STATE OF MARYLAND
STATE ROADS COMMISSION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
REINFORCED CONCRETE PAVEMENT
LONGITUDINAL TIE DEVICES
STANDARD NO. MD-572.61

ISSUED FOR BIDDING — DATE — BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION — DATE — BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	7/15/74	M.W.
2	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/5/74	M.W.

J. H. Clawson, P.E.

AS BUILT DRAWINGS — DATE — BY

9/7/74
J. H. Clawson, P.E.

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

QUESTION ON DRIVAIT No.
QUERY ON TONGUE DRIVAIT APPEARS

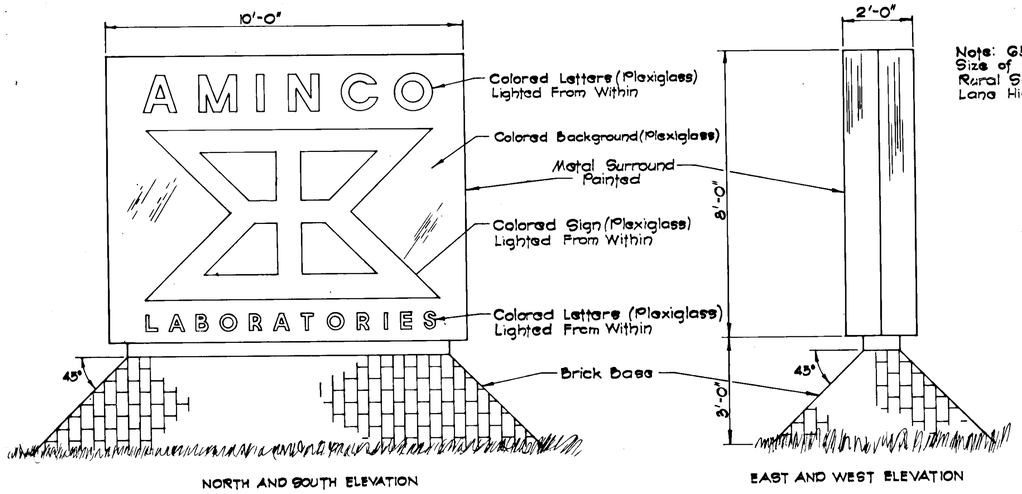
DRAWN F.W.G. — DATE 4-12-74
CHECKED L.C.P. — JOB No. 796040

DETAILS

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE MARYLAND

SHEET 14 OF 16

SDP-74-100



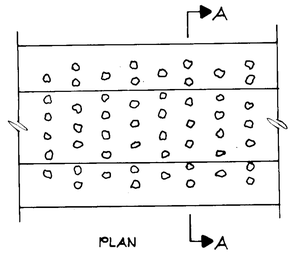
NORTH AND SOUTH ELEVATION

EAST AND WEST ELEVATION

Note: 65 Sq. Ft. Best Recommended Size of Sign on Basis as Industrial, Rural Surroundings, Seen from a 4 Lane Highway at 45 M.P.H.

SIGN DETAIL

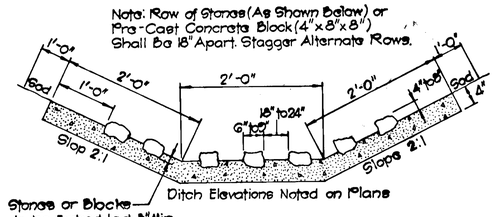
Scale: 1/2" = 1'-0"



PLAN

General Note:
All Dimensions and Locations Not Indicated, For Items Appearing On This Detail or On The Plans, Shall Be Directed By The Engineer.

Note: Row of Stones (As Shown Below) or Pre-Cast Concrete Block (4"x8"x8") Shall Be 18" Apart. Stagger Alternate Rows.

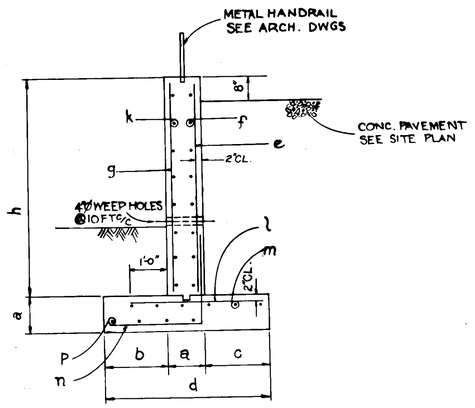


Section A-A

TYPICAL DETAIL
4" CONCRETE ENERGY DISSIPATING GUTTER

Not To Scale

RETAINING WALL SCHEDULE												
h	a	b	c	d	e	f	g	k	l	m	n	p
2'-6" TO 3'-11"	1'-0"	0'-6"	1'-0"	2'-6"	#4@18"	#4@12"	#3@18"	#3@12"	#4@18"	#3@12"	#4@18"	#3@12"
4'-0" TO 5'-11"	1'-0"	1'-0"	1'-8"	3'-8"	#4@18"	#4@12"	#3@18"	#4@12"	#4@18"	#4@12"	#4@18"	#4@12"
6'-0" TO 7'-11"	1'-0"	1'-3"	2'-3"	4'-6"	#4@12"	#4@12"	#4@18"	#4@12"	#4@12"	#4@12"	#4@12"	#4@12"



SECTION
TYPICAL RETAINING WALL
NOT TO SCALE

- PROVIDE CONTRACTION JOINTS EVERY 20' MAX.
- PROVIDE CONSTRUCTION JOINTS EVERY 60' MAX.

SEDIMENT CONTROL & STORM WATER DETENTION BASIN NOTES

1. Contractor shall construct and maintain storm water detention basin as a first order of work. The basin shall serve as a sediment control structure during construction.
2. Sediment shall be removed when in excess of 2 ft. depth and placed at a suitable site.
3. Offsite borrow and spoil areas shall be approved by the Howard Soil Conservation District.
4. Compaction shall be achieved by placing fill in 8" lifts and compacted to 95 percent standard proctor.
5. Construction shall conform to S.C.S. Maryland Standards and Specifications Code 378, revised June 27, 1972.
6. Detention Basin shall be stabilized according to notes on Sht. 6.
7. Riser shall be 30" dia. BCCMP with 1/2" dia. holes spaced 4" vert. & 4" horz.
8. Anti-Vortex Device- This device shall be a thin vertical plate BCCM normal to the centerline of the embankment and bolted or welded to the top of the riser. The plate dimensions are length-42" height-21".
9. Contractor shall convert sediment basin into a storm water retention basin after completion of construction and all soil stabilization by:
   1. Cleaning out sediment from all culvert pipes, basin bottom, and 21" dia. pipe spillway.
   2. Removing 30" riser pipe and anti-vortex plate.
   3. Resurfacing or replacing 4' x 4' concrete inlet pad.
   4. Restabilizing any disturbed areas of storm water rention basin.
10. Owner will submit one set of as built plans to the Howard S.C.D. upon completion of work.

THIS PLAN FOR SMALL POND CONSTRUCTION MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

Approved: Robert W. Ziehm — Howard SCD — 9-30-74 Date

SDP-74-100 Plan Number

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.

James McNelis — U. S. Soil Conservation Service — 9-30-74 Date

OWNER'S CERTIFICATION FOR POND CONSTRUCTION

I certify that the development and construction of this pond will be done according to this plan. I also authorize periodic on-site evaluation by the Howard Soil Conservation District or its authorized agents as deemed necessary. Deviation from this plan will not be made unless authorized in writing by the Howard Soil Conservation District.

SIGNATURE — July 16, 1974 Date

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

COUNTY HEALTH OFFICER — 10/8/74 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas L. Harris Jr. — PLANNING DIRECTOR — 10-8-74 DATE

V. K. Lawson — CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — 10/8/74 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William A. Allen — DIRECTOR — 10/4/74 DATE

S. H. Sheeland — CHIEF, BUREAU OF HIGHWAYS — 10/4/74 DATE

Reviewed for Howard S.C.D. (NAME) and meets Technical Requirements

James M. Nelis — Signature, U. S. Soil Conservation Service — Date 9-30-74

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

Approved: Robert W. Ziehm — Howard S. C.D. — Date 9-30-74

By the Developer:

"I 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." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer — Date

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — 7-16-74 Date

ISSUED FOR BIDDING	DATE	BY

ADDENDA REVISIONS		
ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/5/74	MJW

9/7/74
J. H. Clawson JR

AS BUILT DRAWINGS — DATE — BY

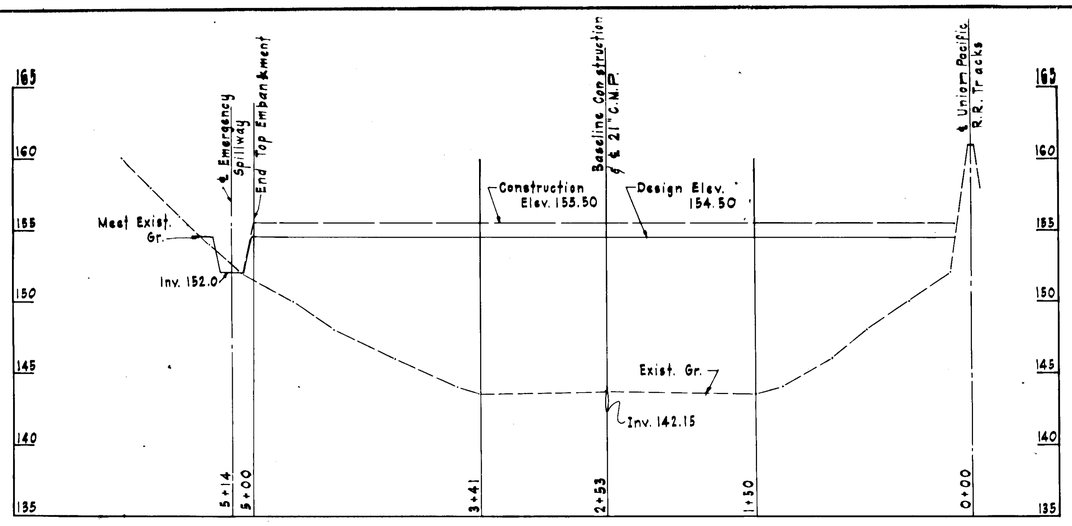
AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION SYMBOL

DRAWN M.J.W. — DATE 7-15-74
CHECKED J.J.S. — JOB No. 73GG40

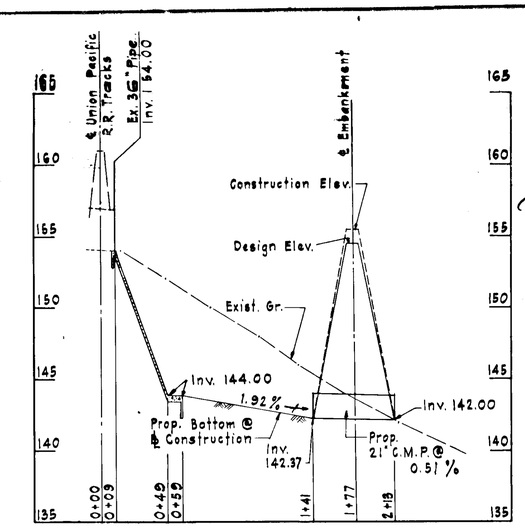
DETAILS

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE, MARYLAND



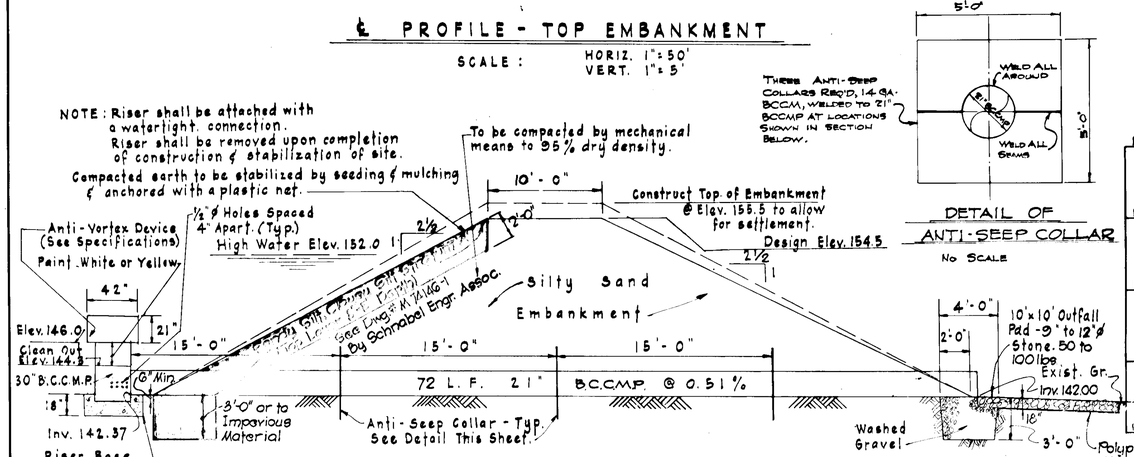
℄ PROFILE - TOP EMBANKMENT

SCALE : HORIZ. 1"=50'
VERT. 1"=5'



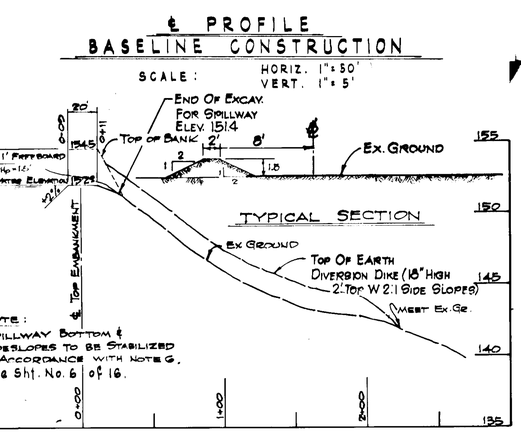
℄ PROFILE BASELINE CONSTRUCTION

SCALE : HORIZ. 1"=50'
VERT. 1"=5'



TYPICAL SECTION - EMBANKMENT

SCALE : 1" = 5'-0"

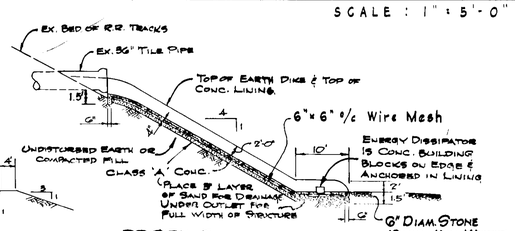


THESE ANTI-SEEP COLLARS REQ'D, 14 GA. BCCM, WELDED TO 21" BCCMP AT LOCATIONS SHOWN IN SECTION BELOW.

DETAIL OF ANTI-SEEP COLLAR

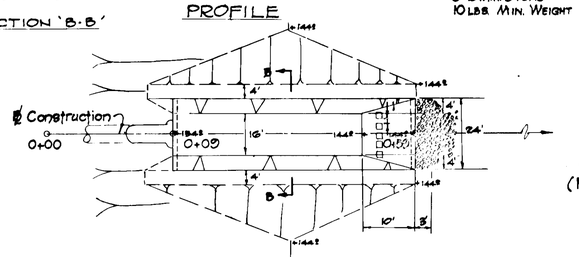
No SCALE

NOTE : SPILLWAY BOTTOM & SIDESLOPES TO BE STABILIZED IN ACCORDANCE WITH NOTE 6. See Sht. No. 6 of 16.



SECTION 'B-B'

PROFILE



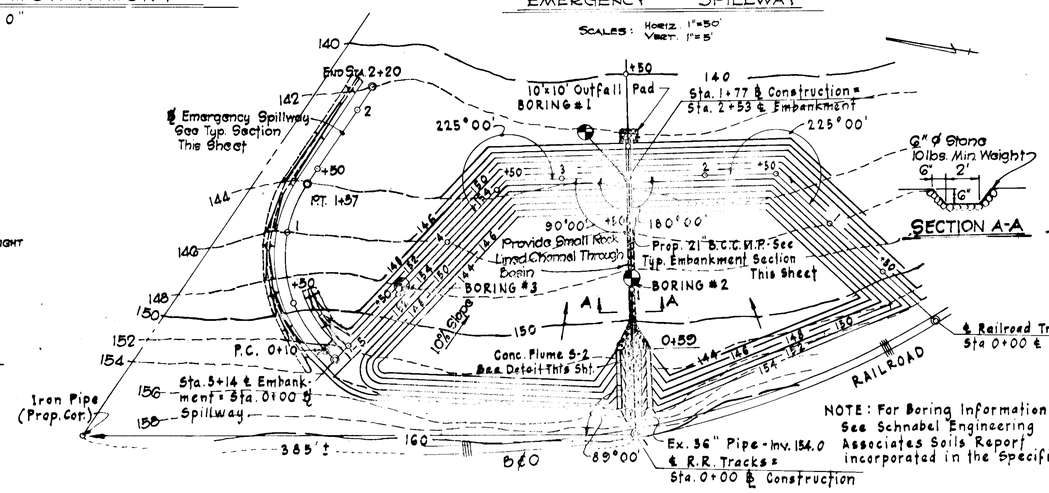
PLAN

DETAIL CONCRETE FLUME S-2

No Scale

℄ PROFILE EMERGENCY SPILLWAY

SCALES: HORIZ. 1"=50'
VERT. 1"=5'



NOTE : For Boring Information See Schnabel Engineering Associates Soils Report incorporated in the Specifications.

PLAN

SCALE : 1" = 50'

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

COUNTY HEALTH OFFICER — DATE 7-16-74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-8-74

CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — DATE 10/8/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/4/74

CHIEF, BUREAU OF HIGHWAYS — DATE 10/4/74

Reviewed for Howard S.C.D. NAME and meets Technical Requirements

Signature — Date 9-30-74

U. S. Soil Conservation Service

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

Approved Robert W. Ziehm Howard S.C.D. Date 9-30-74

By the Developer:

"I 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." Deviation from this plan will not be made ubless authorized by the Howard Soil Conservation District.

Signature of Developer — Date 10, 1974

By the Engineer:

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer — Date 7-16-74

THIS PLAN FOR SMALL POND CONSTRUCTION MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

Approved: Robert W. Ziehm Howard SCD — Date 9-30-74

SDP-74-100 Plan Number

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.

U. S. Soil Conservation Service — Date 9-30-74

OWNER'S CERTIFICATION FOR POND CONSTRUCTION

I certify that the development and construction of this pond will be done according to this plan. I also authorize periodic on-site evaluation by the Howard Soil Conservation District or its authorized agents as deemed necessary. Deviation from this plan will not be made unless authorized in writing by the Howard Soil Conservation District.

SIGNATURE — Date 16, 1974

NOTES:
1. FOR SEDIMENT CONTROL & STORM WATER DETENTION NOTES SEE SHT. #15 OF 16.
2. FOR CONSTRUCTION SPECIFICATIONS SEE SHT. # 8 OF 16.

ISSUED FOR BIDDING	DATE	BY

ADDENDA REVISIONS

ADDENDA NO.	ADDENDA DATE	BY

ISSUED FOR CONSTRUCTION	DATE	BY

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISED IN ACCORDANCE WITH HOWARD COUNTY COMMENTS	9/3/74	M.J.W.
2	REVISED IN ACCORDANCE WITH HOWARD SOIL CONSERVATION DIS. COMMENTS	9/13/74	M.W.

AS BUILT DRAWINGS — DATE — BY

9/17/74 J. H. Clawson JR

AMERICAN INSTRUMENT CO.
DIVISION OF
TRAVENOL LABORATORIES INC.
HOWARD COUNTY, MD.
ELECTION DISTRICT NO. 6
TAX MAP 47, PARCEL NO. 145

SECTION 27 T-13-S

DRAWN W.R.B. DATE 7-15-74
CHECKED J.J.S. JOB No. 7866.010

STORM WATER DETENTION BASIN AND SEDIMENT CONTROL BASIN

ADDITION & ALTERATIONS
PLANT & OFFICE BUILDING
AMINCO
SAVAGE, MARYLAND