

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, OR AS SHOWN ON THESE PLANS.
- ALL AREAS NOT BUILT UPON OR RECEIVING BUILDING OVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY ADJACENT PROPERTIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST A 2' LEVEL BELCH BEHIND ALL CURB AND GUTTER AND THE EDGE OF ALL GRADE PAVED AREAS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION.
- ALL SLOPES SHALL BE 2:1 OR FLATTER.
- THE CONTRACTOR SHALL NOTIFY THE GAS AND ELECTRIC COMPANIES FIVE DAYS PRIOR TO STARTING WORK SHOWN ON THESE PLANS BY CALLING "MISS UTILITY" CALL COLLECT 1-800-910-0100.
- FOR DETAILS OF RAMP AND SLOPE FOR THE HANDICAPPED SEE THE UNIFORM BUILDING CODE FOR THE HANDICAPPED AND AISC 88001 HEREIN.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4" COVER OVER ALL EXPOSED WATER LINES.
- THE CONTRACTOR OR REVEALER SHALL CONTACT THE CONSTRUCTION/INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 410-2411 OR 410-1010.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT, CURB AND GUTTER, ETC. THAT MAY INTERFERE WITH PROPOSED CONSTRUCTION.
- ALL UTILITIES INSTALLED UNDER PAVING SHALL RECEIVE FULL TRENCH PROTECTION.
- ALL WATER MAINS, BELCHES, CAPS, ETC. SHALL BE BUTTERESSED IN ACCORDANCE WITH HOWARD COUNTY DESIGN REQUIREMENTS.
- ALL WATER MAINS SHALL HAVE A MIN. 9" COVER UNLESS NOTED OTHERWISE ON THE PLAN.
- CONTRACTOR TO PROVIDE "AS-BUILT" LOCATION OF WATER MAIN IF THERE IS ANY DEVIATION FROM THE PLAN LOCATION.

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature] 5-7-87
U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

Approved: *[Signature]* 5-7-87
Howard Soil Conservation District Date

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

[Signature] 5-15-87
County Health Officer Date

APPROVED: Howard County Office of Planning & Zoning.

[Signature] 5-20-87
Director Date

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

[Signature] 5-14-87
Director Date

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

[Signature] 5-13-87
Chief Bureau of Engineering Date

ADDRESS CHART

BUILDING #	STREET ADDRESS

SUBDIVISION NAME: _____

PLAT # OR L/F: _____ BLOCK #: _____ ZONE: _____ TAX/ZONE MAP: _____ ELECT. DIST.: _____ CENSUS TRACT: _____

WATER CODE: _____ SEWER CODE: _____

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 4-14-87
[Signature]

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
(301) 825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.H. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE. CONSTRUCTION OF THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE S.W.H. FACILITY WITHIN 30 DAYS OF COMPLETION.

[Signature]
ENGINEER: *[Signature]*
DATE: 4/14/87

OWNER/DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
3511 E. NORTH AVE.
BALTIMORE, MARYLAND 21213
301-342-1100

DEVELOPER'S CERTIFICATE:
I CERTIFY THAT ALL PRELIMINARY AND/OR CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED PROGRAM FOR THE GRADING OF CERTIFICATE AND EROSION CONTROL REGARDING THE PROJECT. I ALSO AUTHORIZE PERFORMING ALL-SITE INSPECTIONS 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. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE S.W.H. FACILITY WITHIN 30 DAYS OF COMPLETION.

[Signature]
DEVELOPER: *[Signature]* DATE: 2-17-87

DESIGNED: *[Signature]*
DRAWN: *[Signature]*
CHECKED: *[Signature]*
REVISIONS:

DETAILS & SECTIONS
"COLGATE RIDGE"
COLUMBIA GATEWAY
PARCELS H-1, H-2, H-3

TAX MAP 43
HOWARD CO, MD
SCALE: AS SHOWN
FN 20023

PARCEL # 521
ELECT. DIST. 6
FEBRUARY 3, 1981
SHEET 2 OF 4

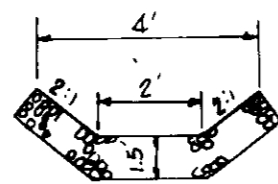
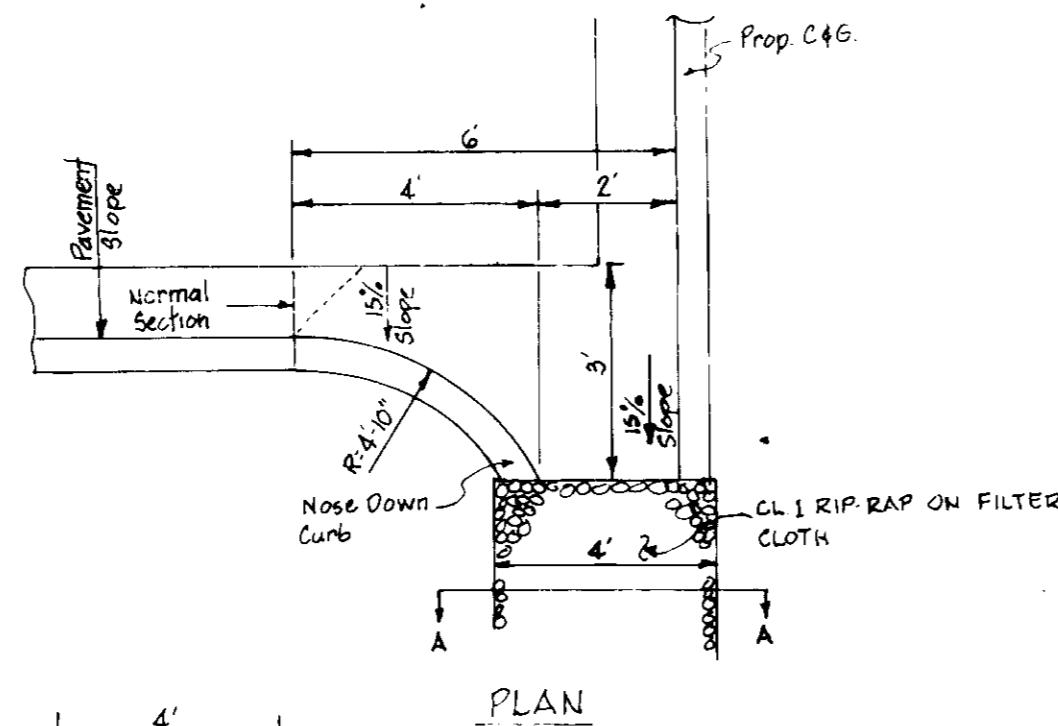
INLET SCHEDULE

NO	TYPE	TOP ELEV	INLET IN	INLET OUT	REMARKS
I-1	DOUBLE 'S' COMP	338.10	332.25	318.40	SEE HO CO STD. 604.34
I-2	DOUBLE 'S' INLET	341.10	340.70	342.45	SEE HO CO STD. 604.34
I-3	DOUBLE 'S' INLET	341.10	342.45	342.45	SEE HO CO STD. 604.34
I-4	DOUBLE 'S' COMP	341.00	-	345.50	SEE HO CO STD. 604.34
I-5	DOUBLE 'S' INLET	338.10	331.55	320.80	SEE HO CO STD. 604.34
I-6	MODIFIED 'D' INLET	341.00	-	337.80	SEE DETAIL SHIT A04A
I-7	MODIFIED 'D' INLET	339.50	-	337.80	SEE DETAIL SHIT A04A
I-8	DOUBLE 'S' COMP	342.00	-	342.20	SEE HO CO STD. 604.34
I-9	DOUBLE 'S' COMP	340.00	-	342.80	SEE HO CO STD. 604.34
I-10	DOUBLE 'S' COMP	340.00	-	344.00	SEE HO CO STD. 604.34

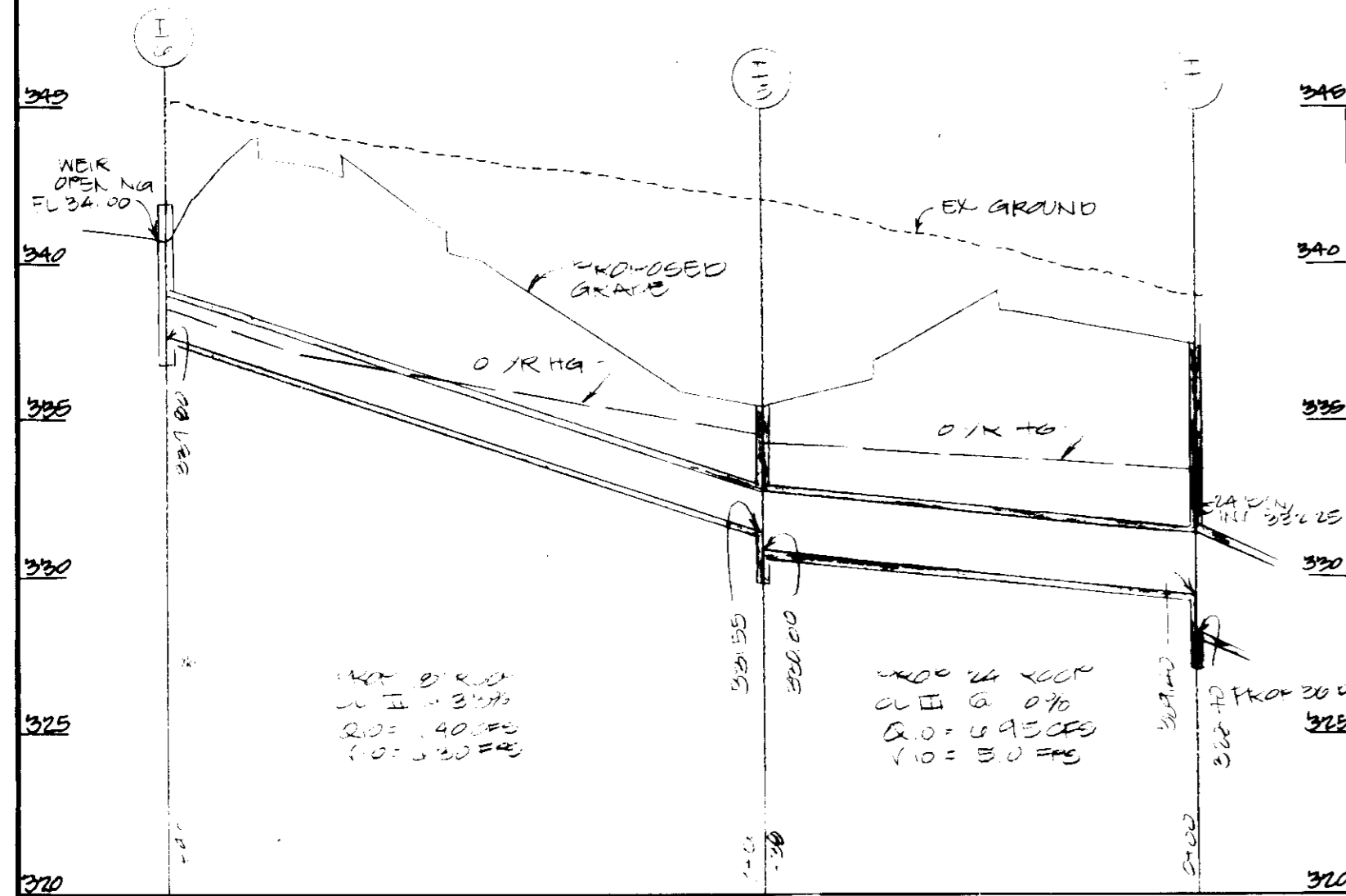
* DENOTES TOP CURB ELEV
** NEAR OPENING ELEV

MANHOLE SCHEDULE

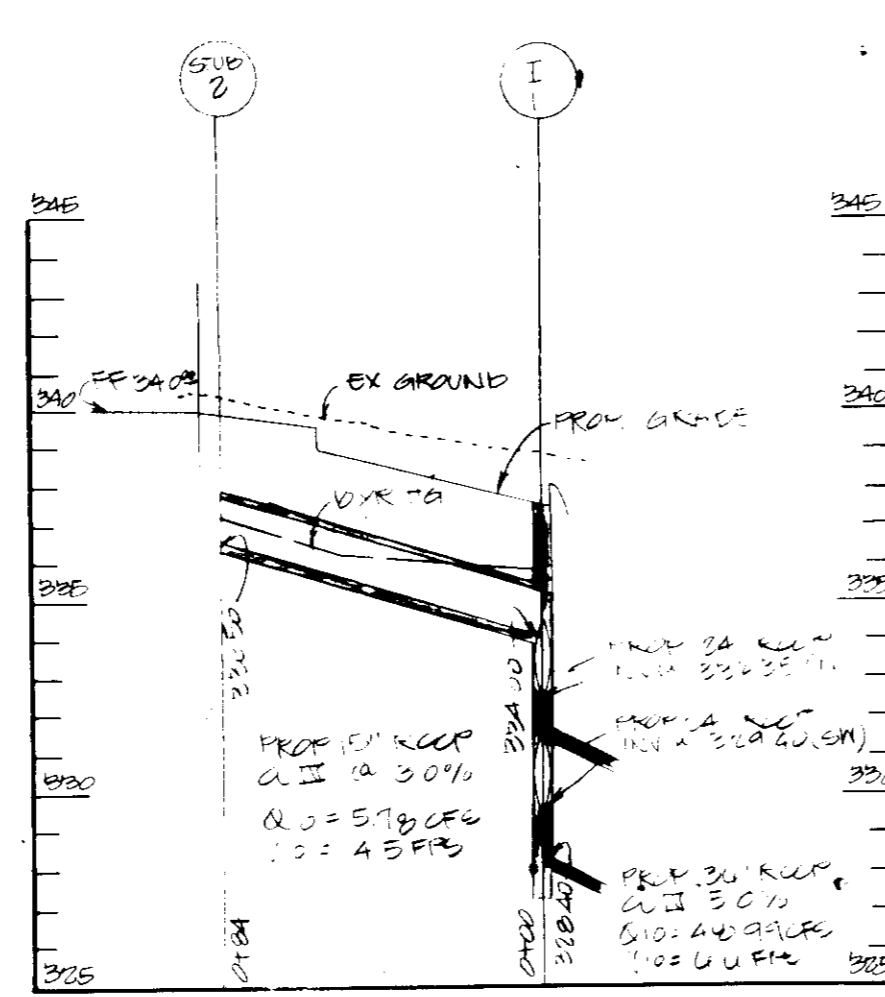
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M-1	METAL END SECTION	330.00	-	319.00	SEE HO CO STD. 601.01
M-2	TYPE 'M' HORIZONTAL	331.50	-	321.00	SEE HO CO STD. 601.01
M-3	METAL END SECTION	343.20	-	342.10	SEE HO CO STD. 601.01
M-4	METAL END SECTION	344.45	-	343.20	SEE HO CO STD. 601.01
M-1	MANHOLE	330.00	340.75	319.50	SEE HO CO STD. 601.01
M-2	MANHOLE	316.00	314.05	312.20	
M-3	MANHOLE	320.00	317.10	316.10	
M-4	MANHOLE	332.00	330.00	317.50	
M-5	MANHOLE	343.10	339.00	335.40	SEE HO CO STD. 601.01



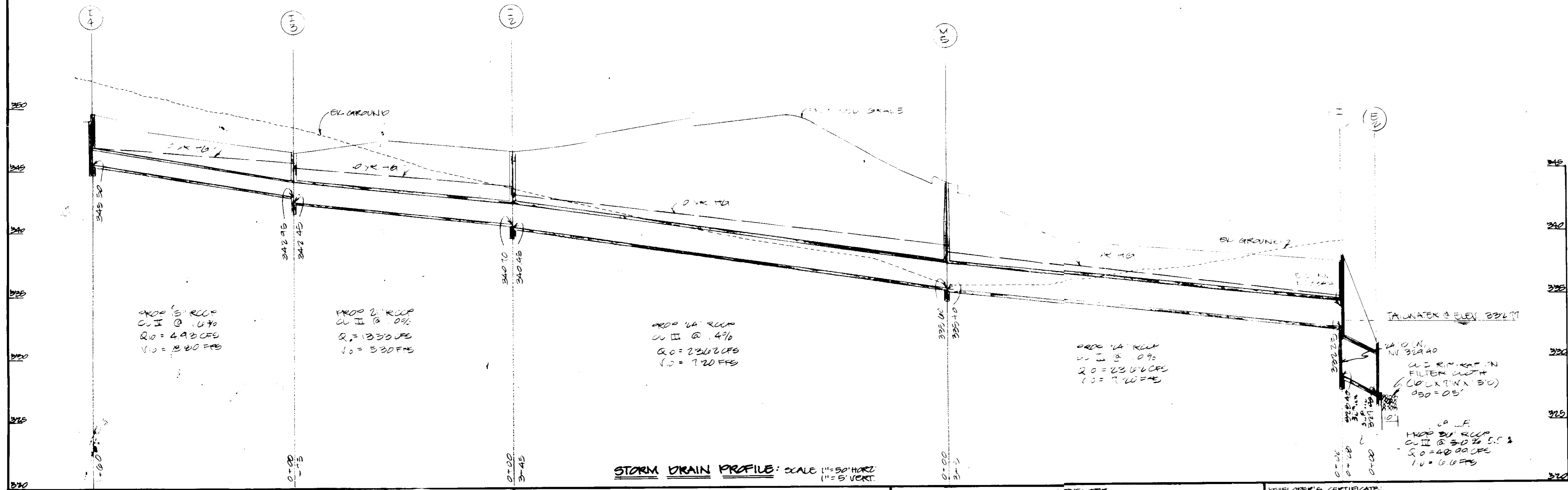
CURB OPENING DETAIL
(NO SCALE)



STORM DRAIN PROFILE: SCALE: 1"=50' HORIZ, 1"=5' VERT



STORM DRAIN PROFILE: SCALE: 1"=50' HORIZ, 1"=5' VERT



STORM DRAIN DRAINAGE AREA MAP
SCALE 1"=100'

AREA	AC ±	C FACTOR
A	0.64	0.90
B	1.10	0.58
C	0.01	0.03
C-1	0.04	0.10
C-2	0.08	0.20
D	1.30	0.04
E	0.01	0.01
F	1.74	0.03
G	1.00	0.03
H	0.10	0.05
I	0.00	0.00
J	10.33	0.10

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE **4-14-87**
[Signature]

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature] 5-7-87
U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

Approved: *[Signature]* 5-7-87
Howard Soil Conservation District Date

Plan Number

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

[Signature] 5-18-87
County Health Officer Date

APPROVED: Howard County Office of Planning & Zoning.

[Signature] 5-20-87
Director Date

[Signature] 5-20-87
Chief Division of Land Development & Zoning Administration Date

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

[Signature] 5-14-87
Director Date

[Signature] 5-13-87
Chief Bureau of Engineering Date

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

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CALCULATION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RESULTS OF THE SITE CALCULATIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THIS S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *[Signature]*
DATE: 4/17/87

OWNER / DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
3511 E. NORTH AVE.
BALTIMORE, MARYLAND 21213
301-342-1100

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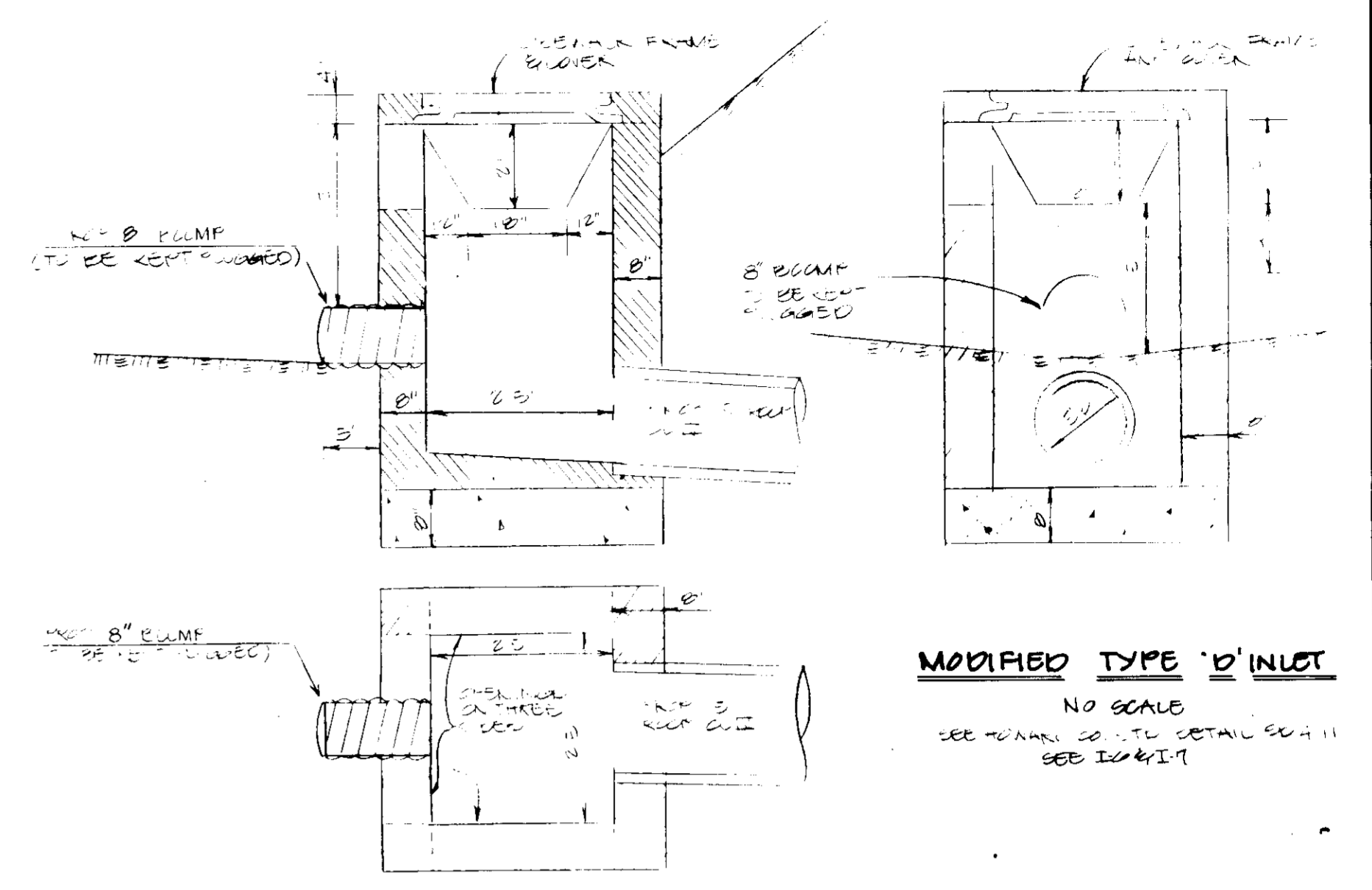
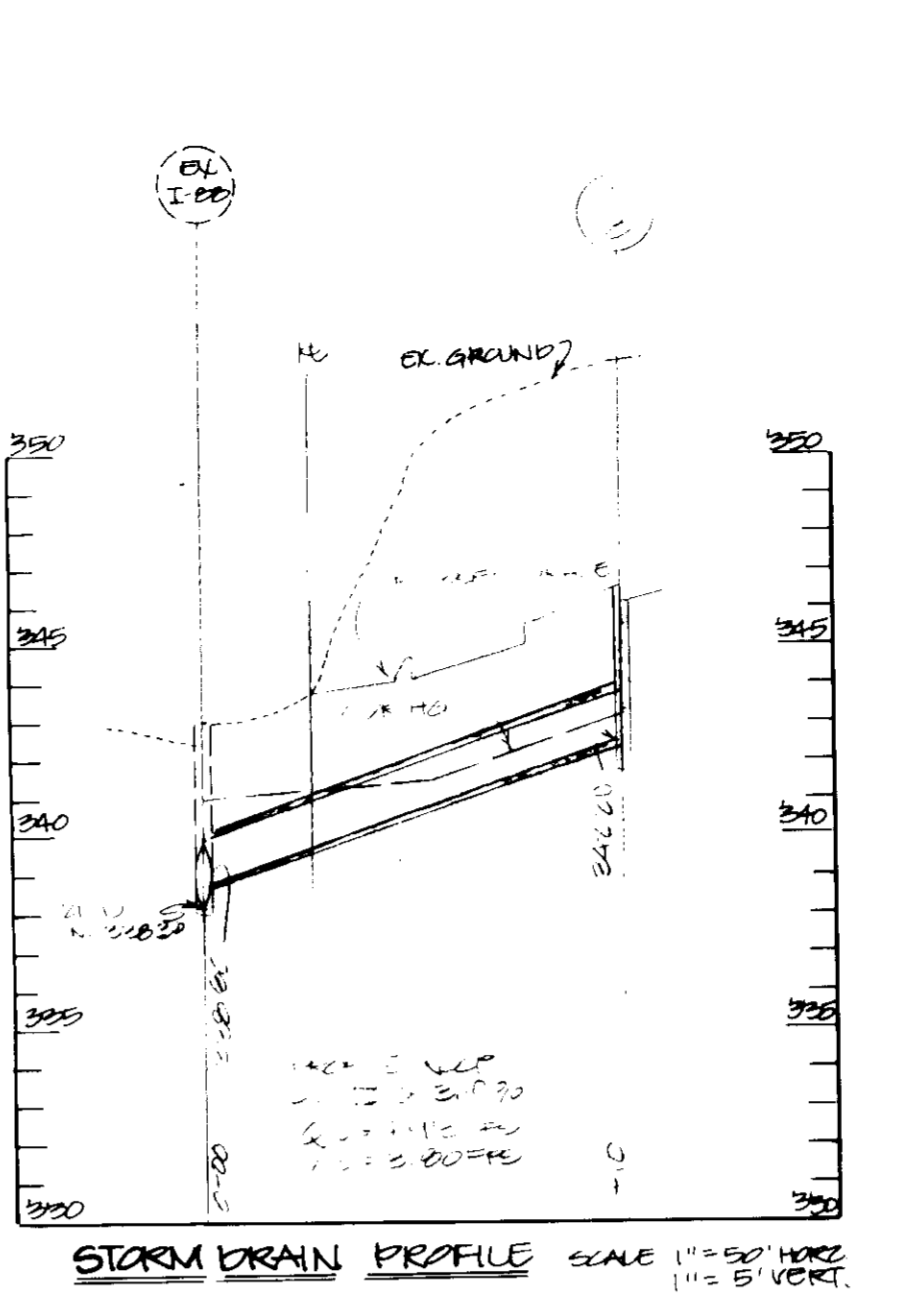
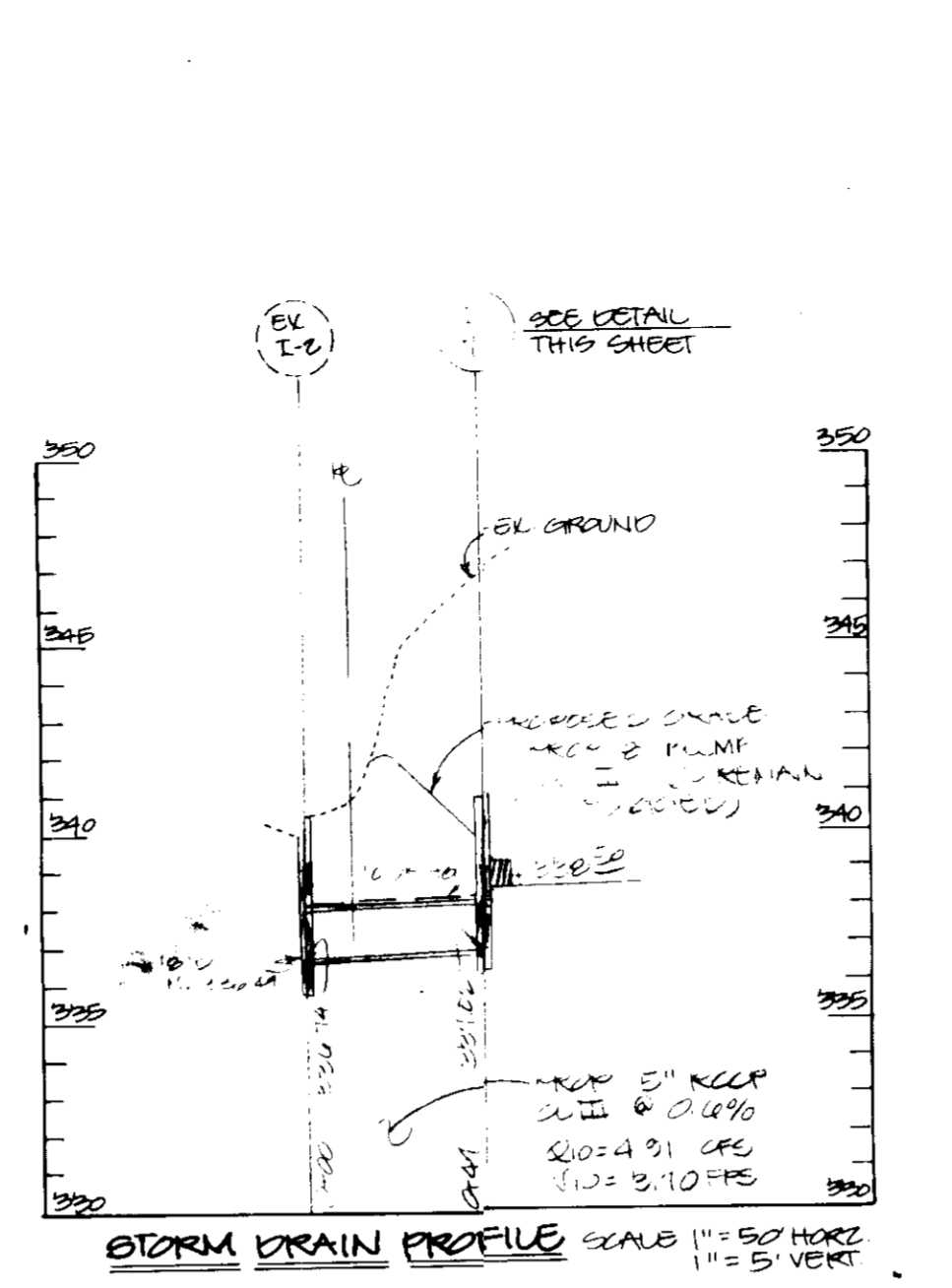
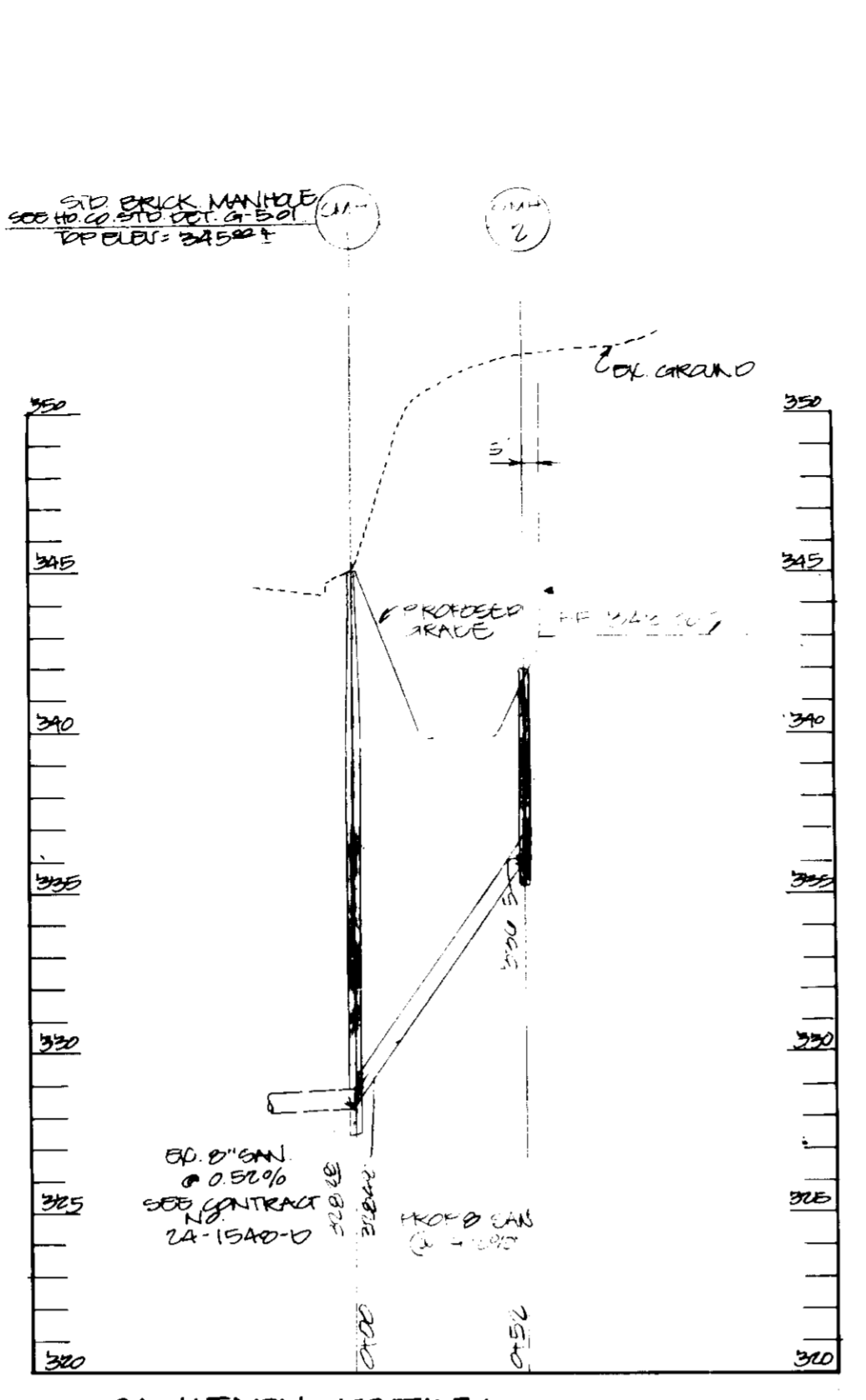
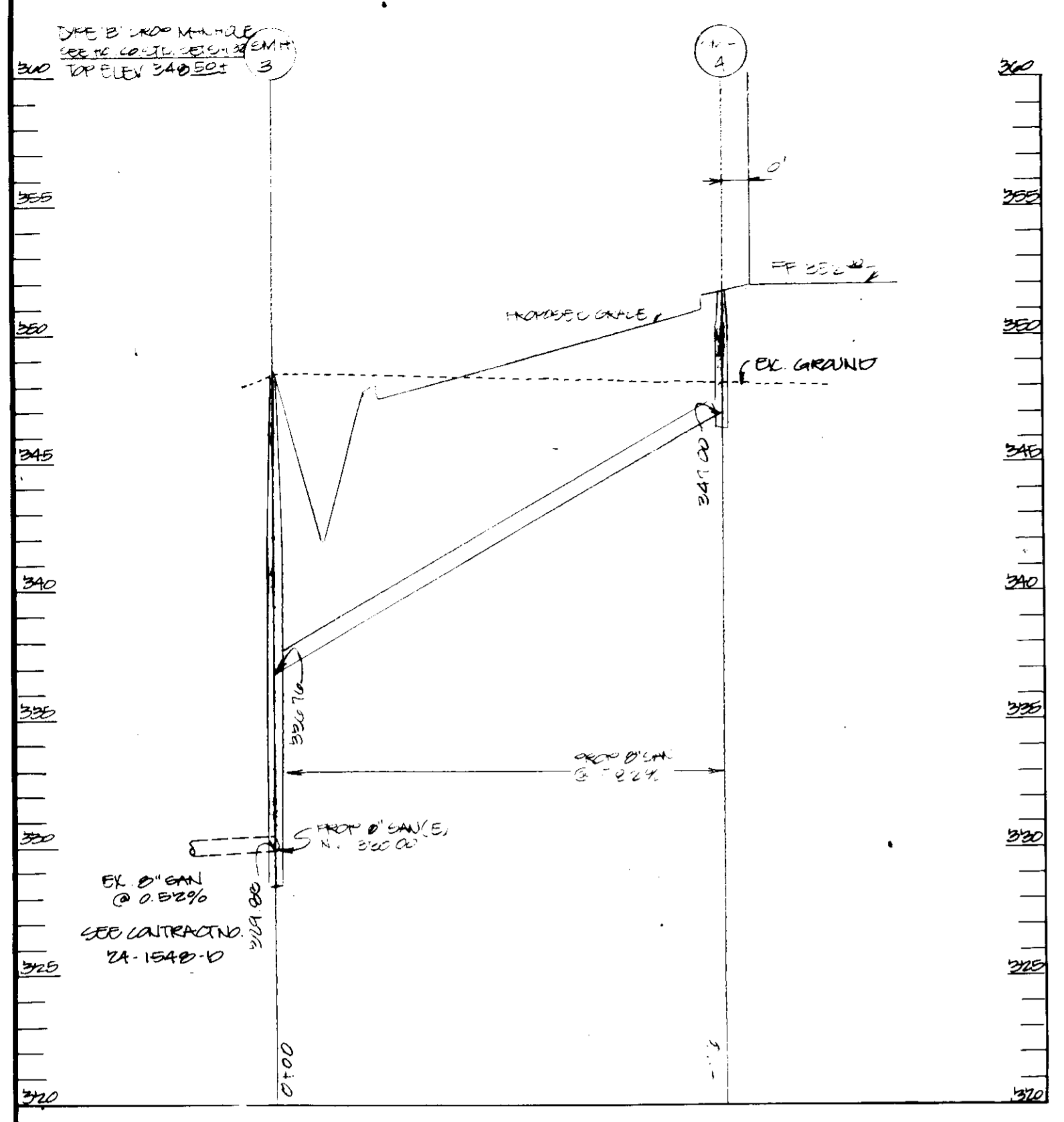
DEVELOPER: *[Signature]* DATE: 2-17-87

DESIGNED: N.J.B.
DRAWN: D.A.U.
CHECKED: P.P.R.
REVISIONS
7-26-74 "AS BUILT"

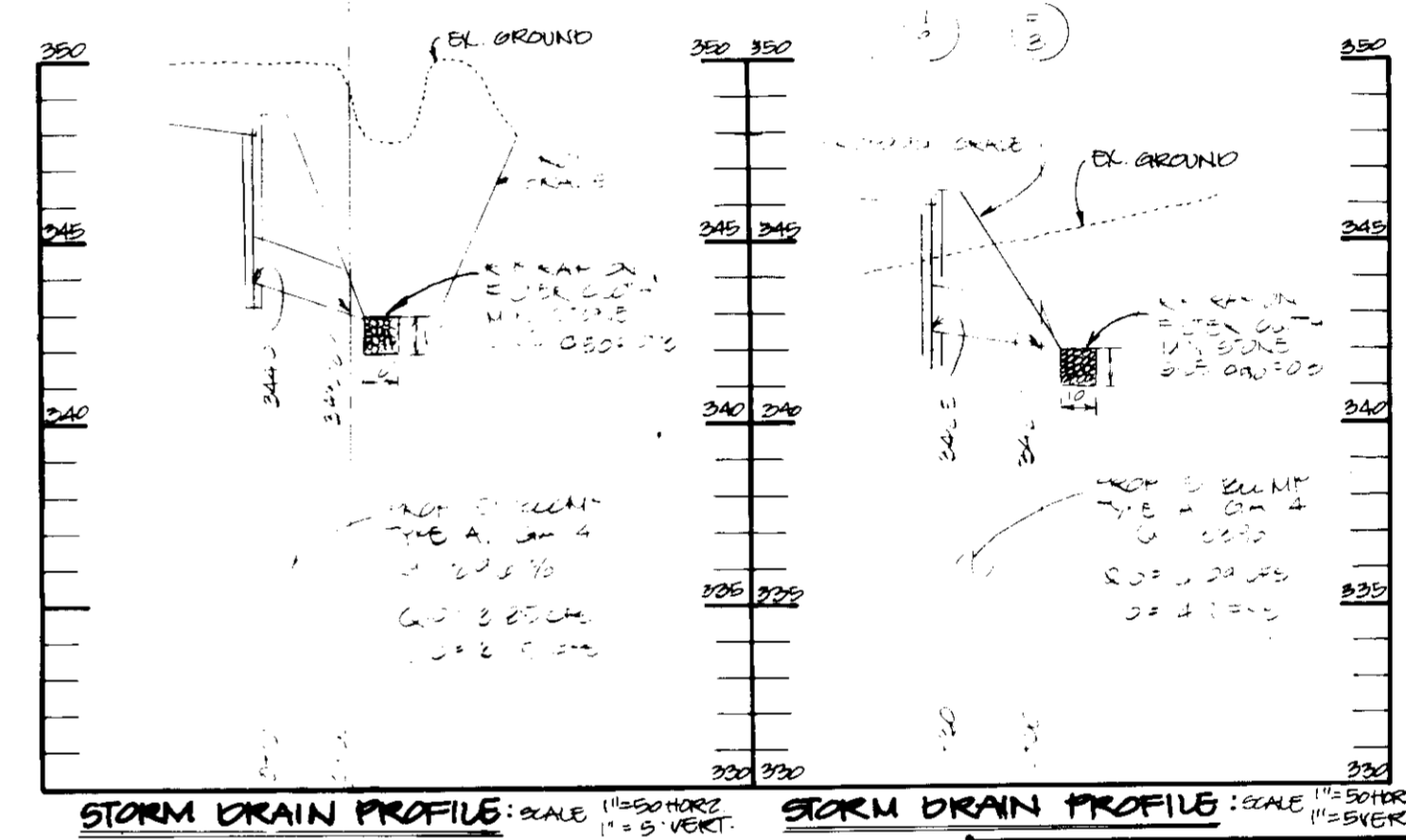
PROFILES & DRAINAGE AREA MAP
PREPARED OFFICE / WAREHOUSE
COLGATE RIDGE
COLUMBIA CENTER
PARCELS H-1, H-2, H-3
TAX MAP 45
SECTION 23, MD
SCALE: NOT SHOWN
INSTRUMENT

PARCEL # 501
ELECT. DIST. 9, 1981
SHEET 3 OF 9

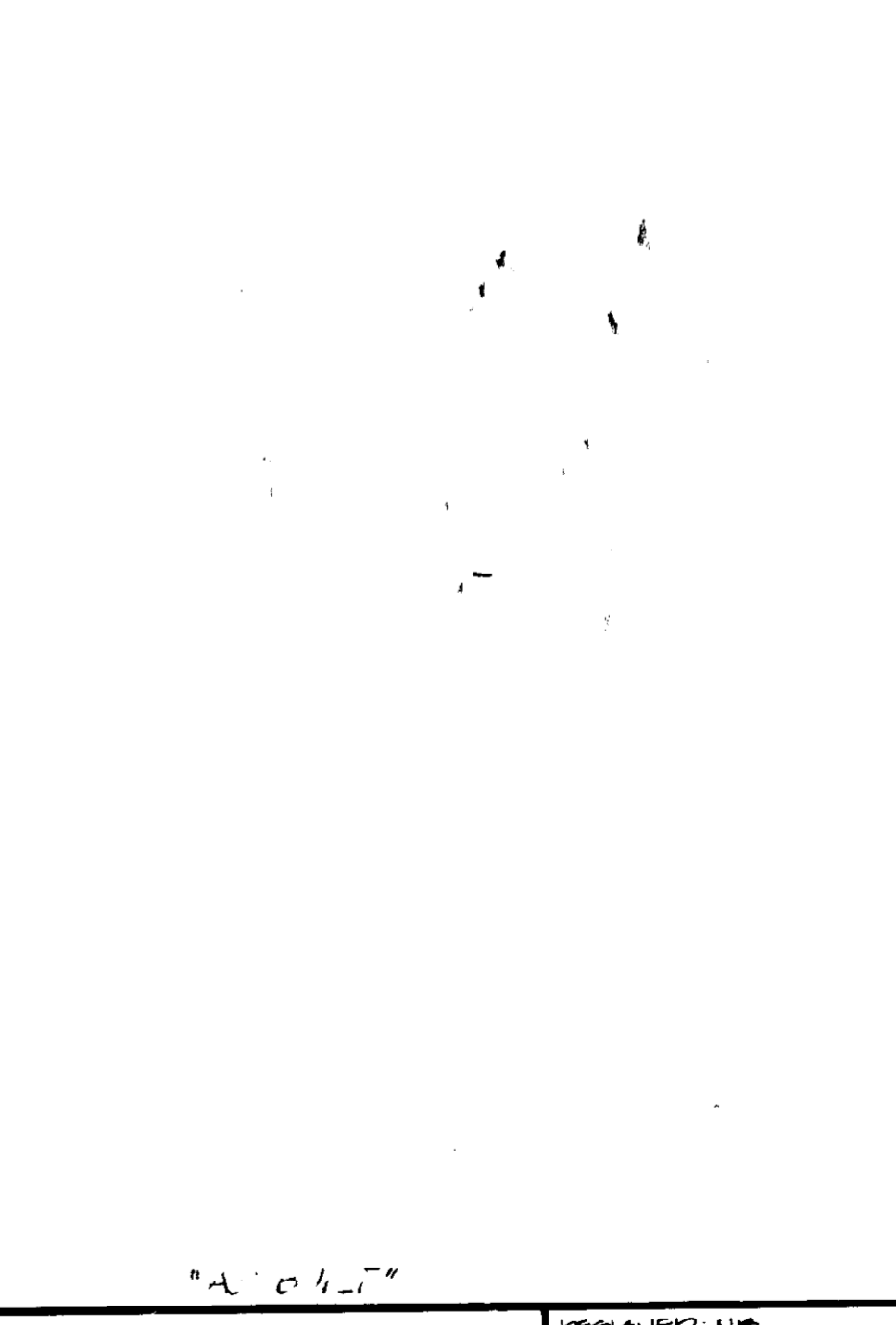
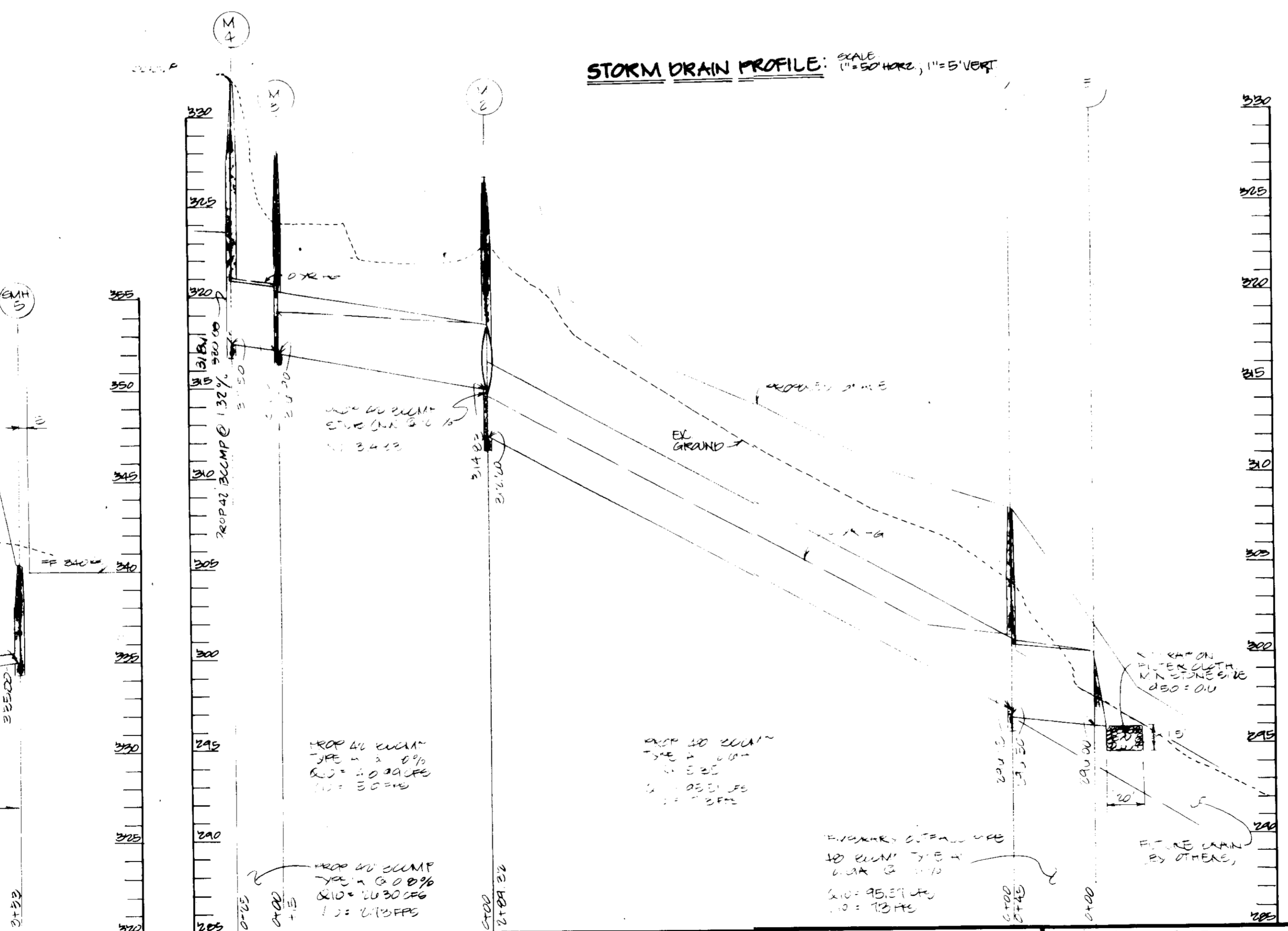
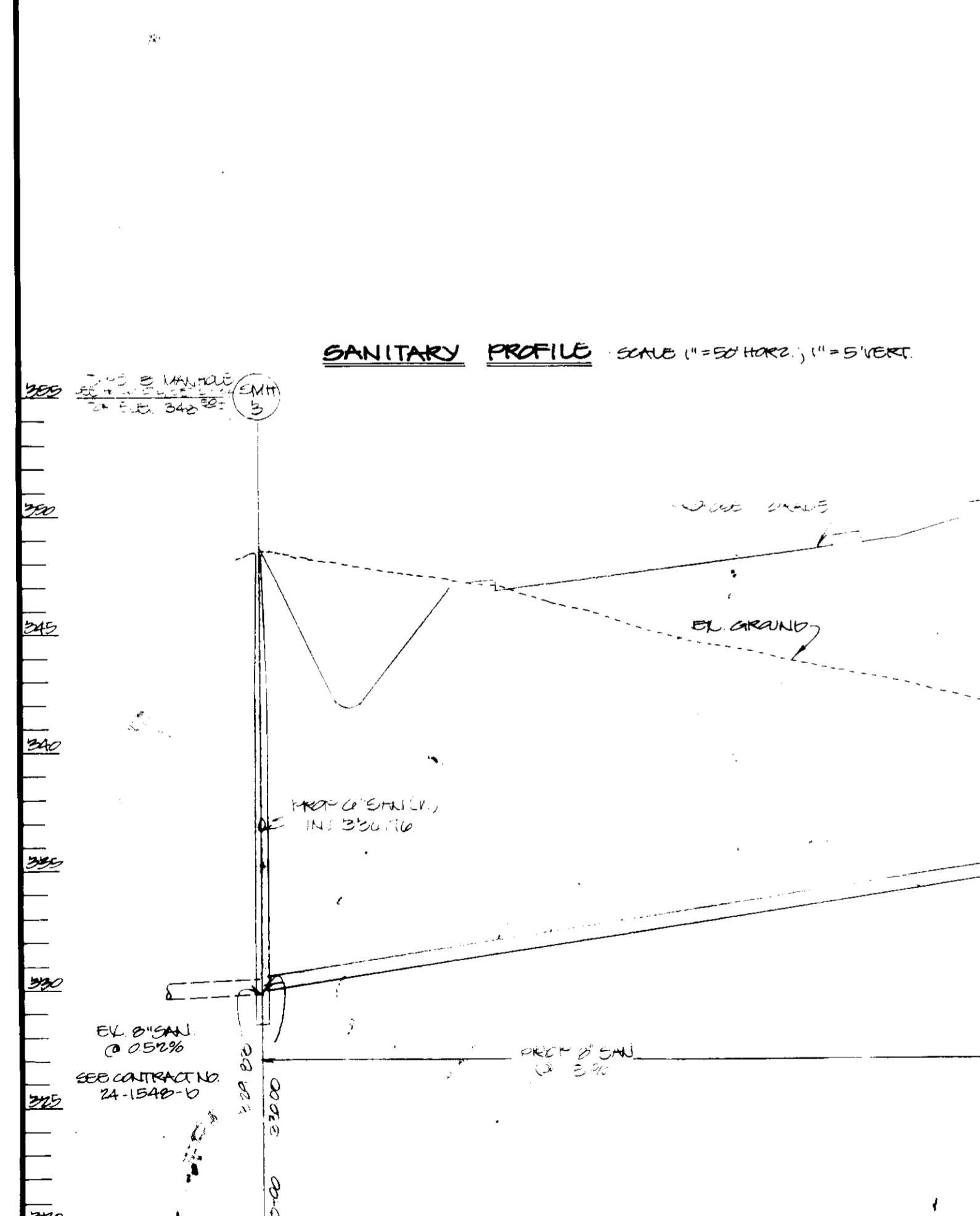
As-BUILT



NO	TYPE	TOP ELEV.	INV. IN	INV. OUT	REMARKS
SMH-1	STD BRICK MANHOLE	348.00	320.40	328.20	SEE HO. CO. STD. 4 B. 21
SMH-2	STD BRICK MANHOLE	348.22	320.55	328.55	SEE HO. CO. STD. 4 B. 21
SMH-3	TYPE 'B' MANHOLE	348.50	320.80	328.80	SEE HO. CO. STD. 4 B. 21
SMH-4	STD BRICK MANHOLE	351.80	347.00	350.00	SEE HO. CO. STD. 4 B. 21
SMH-5	STD BRICK MANHOLE	340.45	-	335.00	SEE HO. CO. STD. 4 B. 21



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 4-14-87
[Signature]



These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature] 5-7-87
U.S. Soil Conservation Service Date

Approved: *[Signature]* 5-7-87
Howard Soil Conservation District Date

Plan Number

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

[Signature] 5-15-87
County Health Officer Date

Approved: Howard County Office of Planning & Zoning.

[Signature] 5-20-87
Director Date

[Signature] 5-20-87
Chief Division of Land Development & Zoning Administration Date

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

[Signature] 5-14-87
Director Date

[Signature] 5-13-87
Chief Bureau of Engineering Date

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CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR SOIL FACILITY CONSTRUCTION, DRAINAGE AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE SOIL FACILITY WITHIN 30 DAYS OF COMPLETION.

[Signature]
ENGINEER: *[Signature]*
REG. NO. 8720 DATE: 2/17/87

OWNER / DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
3511 E. NORTH AVE.
BALTIMORE, MARYLAND 21213
301-342-1100

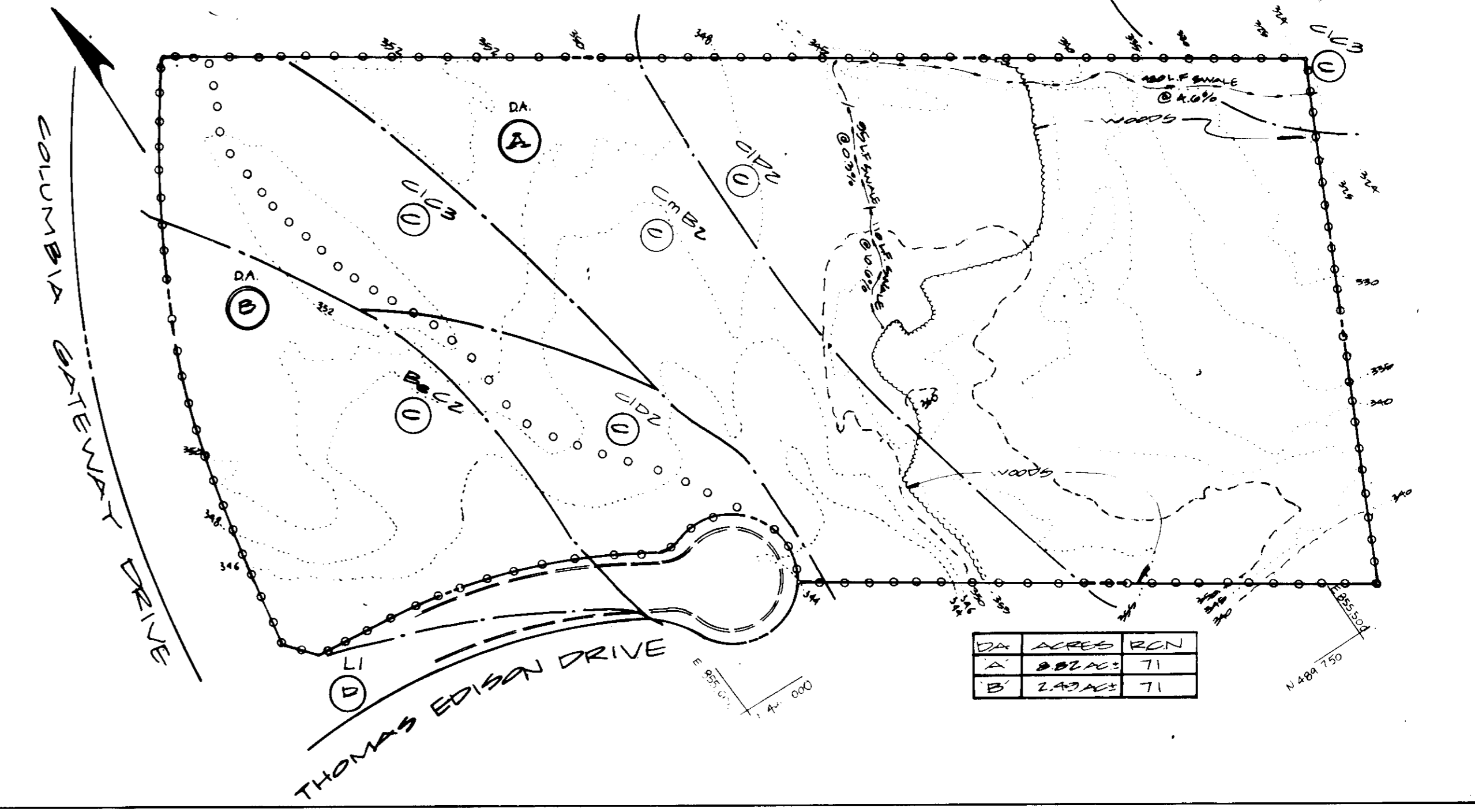
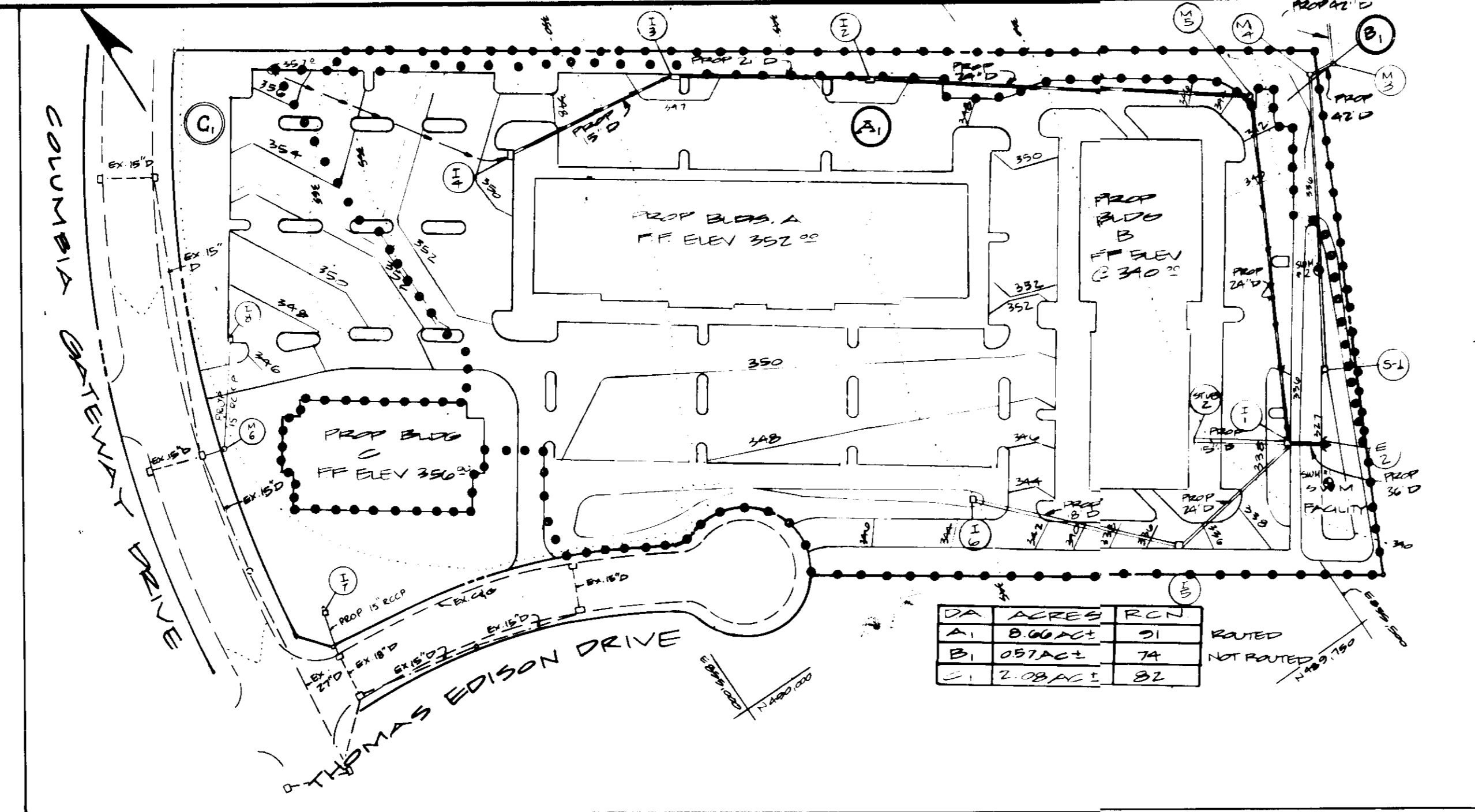
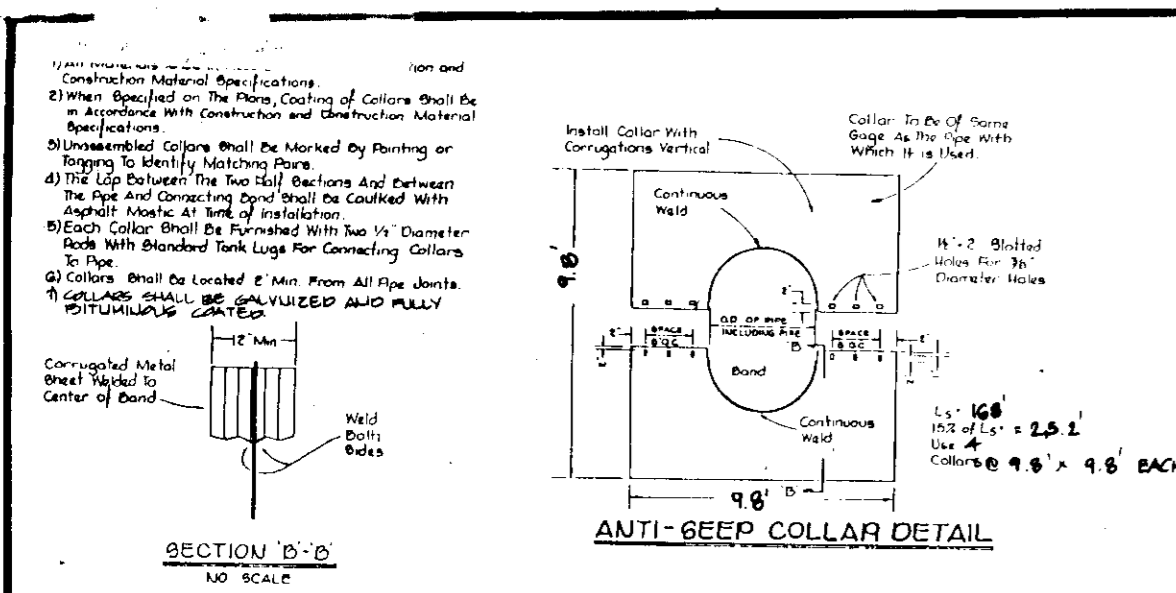
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[Signature] DATE: 7-17-87

DETAILED NO. 7-26-74 "AS BUILT"

PROFILES & DETAILS
PREPARED OFFICE/WAREHOUSE
COLGATE RIDGE
COLUMBIA GATEWAY
PARCELS H-1, H-2, H-3
TAX MAP 40
HOWARD CO. MD
SCALE: AS SHOWN
PROJECT

PARCEL # 501
ELECT. DIST. 4
FEBRUARY 9, 1981
SHEET 4 OF 9



CONSTRUCTION SPECIFICATIONS

I. **SITE PREPARATION**
The fill area and borrow area shall be cleared and grubbed to remove all trees, vegetation, stumps and other objectionable material. The topsoil from the embankment area and borrow area shall be removed and stockpiled. The topsoil shall be spread on the completed fill area.

II. **FILL**
A) FILL MATERIAL shall be obtained from on-site under the supervision of a soils engineer. It shall be free from coarse stones, wood chunks, oversized roots, frozen or other objectionable material. Fill areas shall be constructed to the elevation shown on the plan to allow for anticipated settlement.
B) **PLACEMENT** Areas on which fill will be placed shall be identified prior to placement of fill. Fill materials shall be placed in layers 6" thick maximum (before compaction) and shall be continuous over the entire length of fill. The most porous material shall be placed in areas not adjacent to ponded water.
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 compacted to the specified density. Fill material shall contain sufficient moisture so that the required degree of compaction can be obtained with the equipment used.
D) **COSE TRINCH** shall be made of 3C or 4C material compacted to 95% of A.S.T.M. 2-99 density.

III. **STRUCTURAL MATERIAL**
Reinforced concrete shall be the type and quality specified for the adjoining fill material. The fill shall be placed in horizontal layers of 24" maximum and compacted by hand tamping or manually directed power tampers or plate vibrators. As no live during backfilling operations shall drive equipment be allowed to operate any closer than four feet measured horizontally to any part of a structure. That on circumstances shall the contractor drive equipment over any part of a concrete structure of pipe unless there is a compacted fill of 24" or greater over the structure of pipe. Materials shall fill completely all spaces under and adjacent to newly installed pipe.

IV. **CONCRETE**
Concrete shall meet the minimum requirements set forth in the Maryland State Highway Administration "Specifications for Construction and Materials" January 1982 Section 211.08 - "Portland Cement Concrete Structures", as amended. Structures shall be A.C.T.A. A 615 Grade 60.

V. **STABILIZATION**
The storm water management facility will be stabilized with "Permanent Slope Seeding" as follows:
After spreading 4" topsoil seed with a mixture of 10% inoculated bromegrass and 70% Kentucky 31 Tall Fescue applied at a rate of 40 lbs./ac., 10-20-20 fertilizer shall be applied at a rate of 25 lbs./1000 square feet, lime at a rate of 25 lbs./1000 square feet, which area with unweathered small grain straw at a rate of 2.5 lb./100 square feet with rapid curing apparatus (RCC-100, RCC-200 or RCC-400) at a rate of 0.2 gal./ft.².

VI. **PIPE COLLARS**
42" B.C.M.P., Type 'A' Hot Dipped Galvanized Steel Pipe - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of A.S.T.M. Specification G 90 with weathering conductivity factor. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

7. **COMPLETION** - All connections with pipe must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are used. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dipole bands are not considered to be watertight.

8. **REPAIRS** - The pipe shall be firmly and uniformly bedded throughout its entire length, where work or work exposed to other suitable soils is encountered. All such materials shall be removed and replaced with suitable earth compacted to provide.

9. **LAID PIPE** - The pipe shall be placed with inside circumferential lap joints and staggered lap joints at the riser.

10. **BACKFILLING** shall conform to structural backfill as shown above.

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

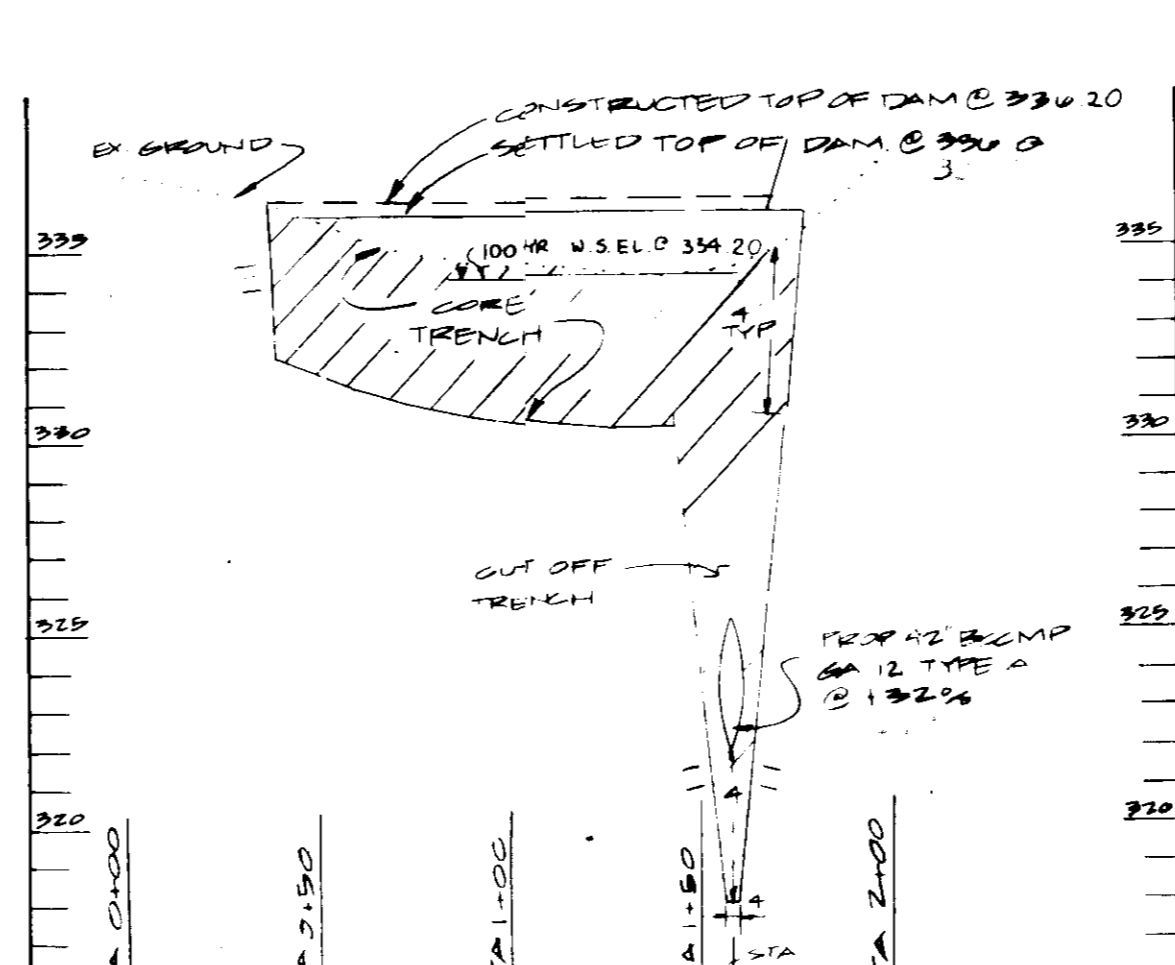
VII. **FILTER CLOTH**
REINFORCED CONCRETE EQUIVALENT SHALL BE USED.

VIII. **SEDIMENT CONTROL**
Construction shall be in accordance with 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control. To release structure install dewatering device by connection to 12" perforated underdrain to the low flow pipe. The underdrain shall be wrapped in filter cloth and covered with minimum 12" thick #2 stone.

NOTE: (SPECIFIED DENSITY) SOILS ENGINEER SHALL BE USED FOR THE ENHANCEMENT AND SOLED TO A MINIMUM DENSITY OF CONSTRUCTION OF 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY A.S.T.M. 2-99. CONSTRUCTION OF SW POND SHALL BE PERFORMED UNDER STRICT SUPERVISION OF A SOILS ENGINEER.

STORMWATER MANAGEMENT DRAINAGE AREA MAP PROPOSED CONDITIONS
SCALE 1" = 40'

ELEV.	SOIL DESCRIPTION	STRATA DEPTH	DEPTH SCALE
335	Tan, moist mf sand, little silt, little mf gravel (Fill)	4.0 Feet	5
330	Tan and gray moist fine sand, some silt [5M]	4.0 Feet	5
325	Tan and gray moist fine sand and silt [5M]	8.0 Feet	10
320	Multiphased moist mf sand and silt, tr mf gravel [5M]	10.0 Feet	10
315	Brown moist fine sand, some clayey silt [5M]	9.0 Feet	15
310	At completion of boring, hole dry and cored @ 11.0 Ft.		



STORMWATER MANAGEMENT DRAINAGE AREA MAP EXISTING CONDITIONS
SCALE 1" = 40'

STORM WATER MANAGEMENT DATA

SOIL GROUP:	EXISTING CONDITION:	PROPOSED CONDITION:
A) Not Routed B, D.A. = 0.92 Ac, RCN = 74	D.A. = 0.92 Ac, RCN = 74	A) Not Routed B, D.A. = 0.57 Ac, RCN = 74
B) Routed A, S.W.M. Facility = DRY / ENHANCEMENT POND, D.A. = 3.64 Ac, RCN = 81	D.A. = 2.49 Ac, RCN = 74	B) Routed A, S.W.M. Facility = DRY / ENHANCEMENT POND, D.A. = 3.64 Ac, RCN = 81

BEFORE MANAGEMENT

2 Yr. Flow = 29.18 cfs	10 Yr. Flow = 52.67 cfs	100 Yr. Flow = 34.13 cfs
2 Yr. Flow = 11.67 cfs	10 Yr. Flow = 25.8 cfs	100 Yr. Flow = 5.92 cfs

AFTER MANAGEMENT (ROUTING)

2 Yr. Flow = 4.55 cfs (w.s. elev. @ 331.0') < 9.81 cfs
10 Yr. Flow = 34.90 cfs (w.s. elev. @ 332.96') < 25.98 cfs
100 Yr. Flow = 44.75 cfs (w.s. elev. @ 336.22') < 47.27 cfs

ALLOWABLE RELEASE:

For 2 Yr. Storm = 11.57 + 3.86 + 0.88 = 16.31 cfs	For 10 Yr. Storm = 28.5 + 9.09 + 2.08 = 39.67 cfs	For 100 Yr. Storm = 51.02 + 15.04 + 3.60 = 69.66 cfs
---	---	--

HYDROLOGIC CRITERIA:

Required = 2.0 cfs per sq ft
Provided = 2.10 cfs per sq ft

STRUCTURE CLASSIFICATION: (C)
MAXIMUM DEPTH OF WATER = 2.2'
STORAGE = 18' x 18' x 18' = 5940 cu ft
REINFORCED = 18"

STORAGE REQUIREMENT:

For 2 Yr. Storm = 18,400 cu ft	For 10 Yr. Storm = 34,100 cu ft	For 100 Yr. Storm = 49,100 cu ft
--------------------------------	---------------------------------	----------------------------------

EXISTING CONDITION DA (C) - DA (B)

2 Yr. Flow = 11.67 cfs	10 Yr. Flow = 25.8 cfs	100 Yr. Flow = 5.92 cfs
------------------------	------------------------	-------------------------

PROPOSED CONDITION DA (C) - DA (B)

2 Yr. Flow = 4.55 cfs	10 Yr. Flow = 34.90 cfs	100 Yr. Flow = 44.75 cfs
-----------------------	-------------------------	--------------------------

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

J. Holman 5-7-87 Date

U.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

Approved: *Robert W. Zickler* 5-7-87 Date
Howard Soil Conservation District

Plan Number

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

James P. ... 5-11-87 Date
County Health Officer

APPROVED: Howard County Office of Planning & Zoning.

Thomas J. Harris 5-20-87 Date
Director

John W. ... 5-20-87 Date
Chief Division of Land Development & Zoning Administration

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

Robert ... 5-14-87 Date
Director

Michael ... 5-13-87 Date
Chief Bureau of Engineering

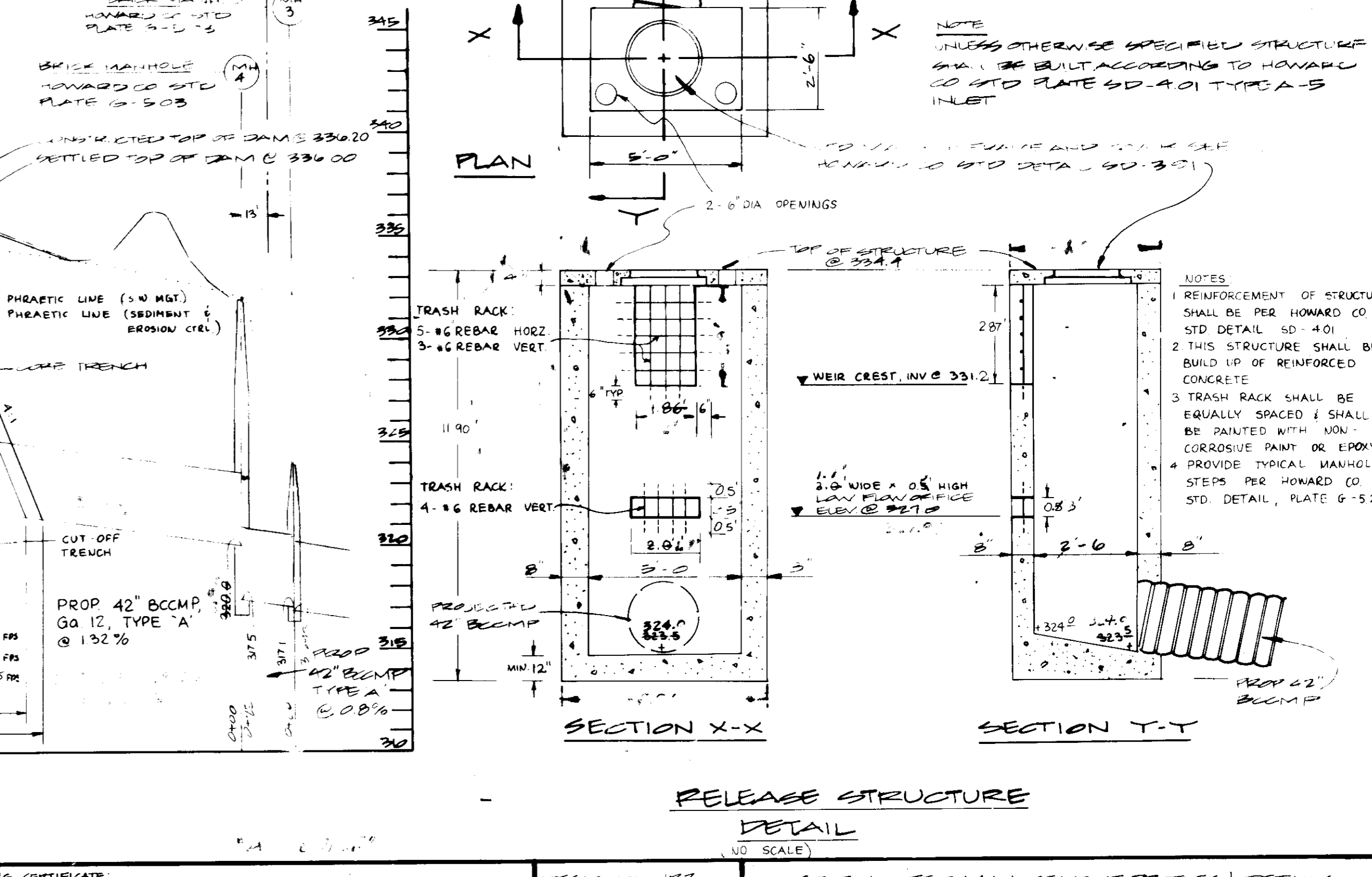
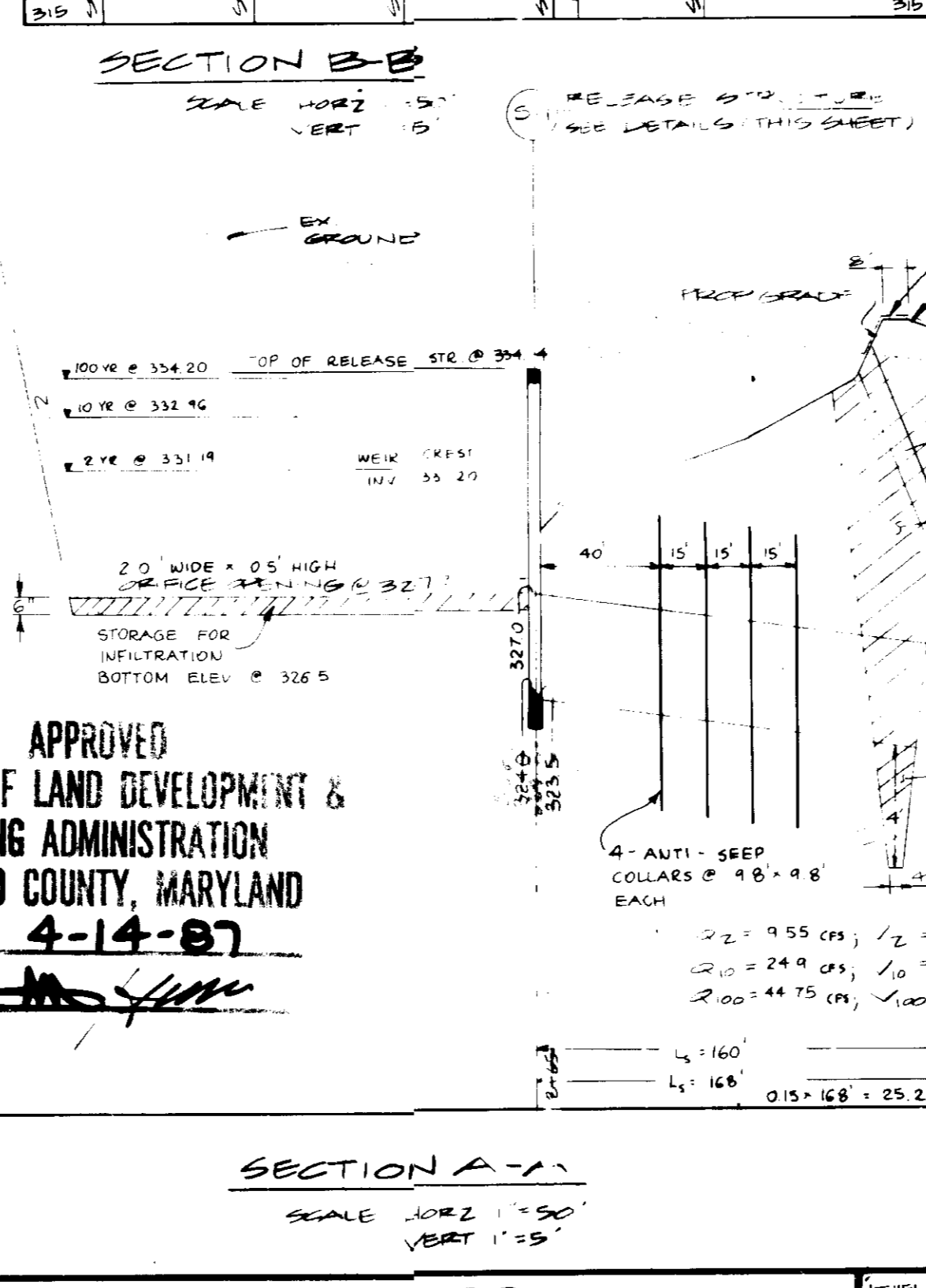
STORMWATER MANAGEMENT MAINTENANCE SCHEDULE

MAINTENANCE ITEM	1	2	3	4	5	6
MAINTENANCE FREQUENCY	8	7	8	8	8	8
REPAIR DURATION	0	10	0	0	0	0

- CLEAN OUT SILT
- CLEAN OUT TRASH
- CHECK WEIR CLEARING
- CHECK SLOPE STABILIZATION
- CUT GRASS
- CHECK STRUCTURAL INTEGRITY
- EVERY TWO WEEKS
- EVERY THREE MONTHS
- ONE WEEK MAXIMUM
- TWO DAYS

* ALL MAINTENANCE, INSPECTIONS AND REPAIR SHALL BE THE RESPONSIBILITY OF THE OWNER

* INSPECT ALL ABOVE ITEMS AFTER EACH MAJOR RAINFALL AND REPAIR IF NECESSARY.



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

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR G.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE. CONSTRUCTION OF THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE G.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *Robert ...*
DATE: 2/11/87

OWNER/DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
3115 E NORTH AVENUE
BALTO MARYLAND 21213
301-342-1100

DEVELOPER'S CERTIFICATE:
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT RESPONSIBLE PERSONNEL EMPLOYED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZED PERFORM ALL-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT FOR THEIR AUTHORIZED RESULTS AS AND PROVIDED IMMEDIATELY INFORMATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE G.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

DEVELOPER: *Thomas ...*
DATE: 2-17-87

DESIGNED BY: J.F.Z.
DRAWN BY: J.B.
CHECKED BY: J.C.

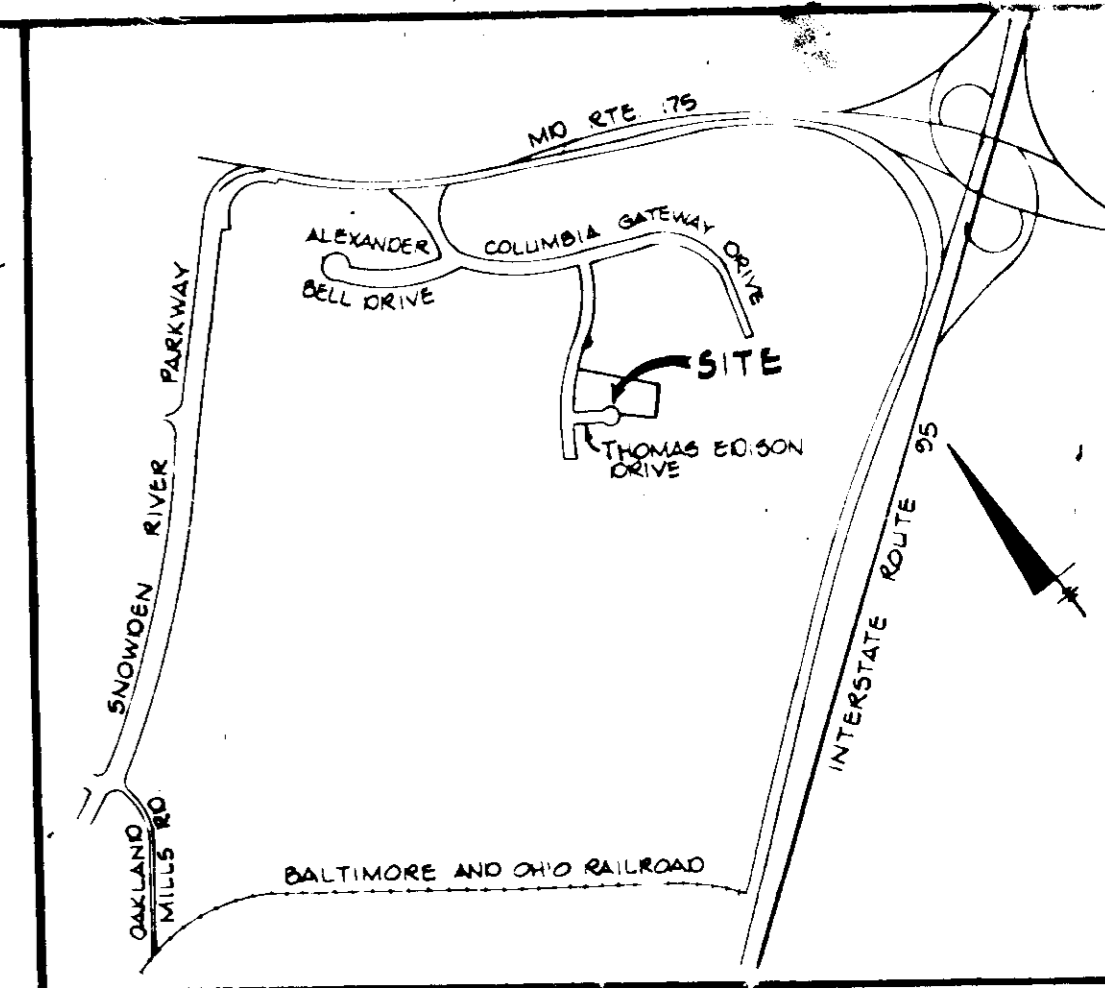
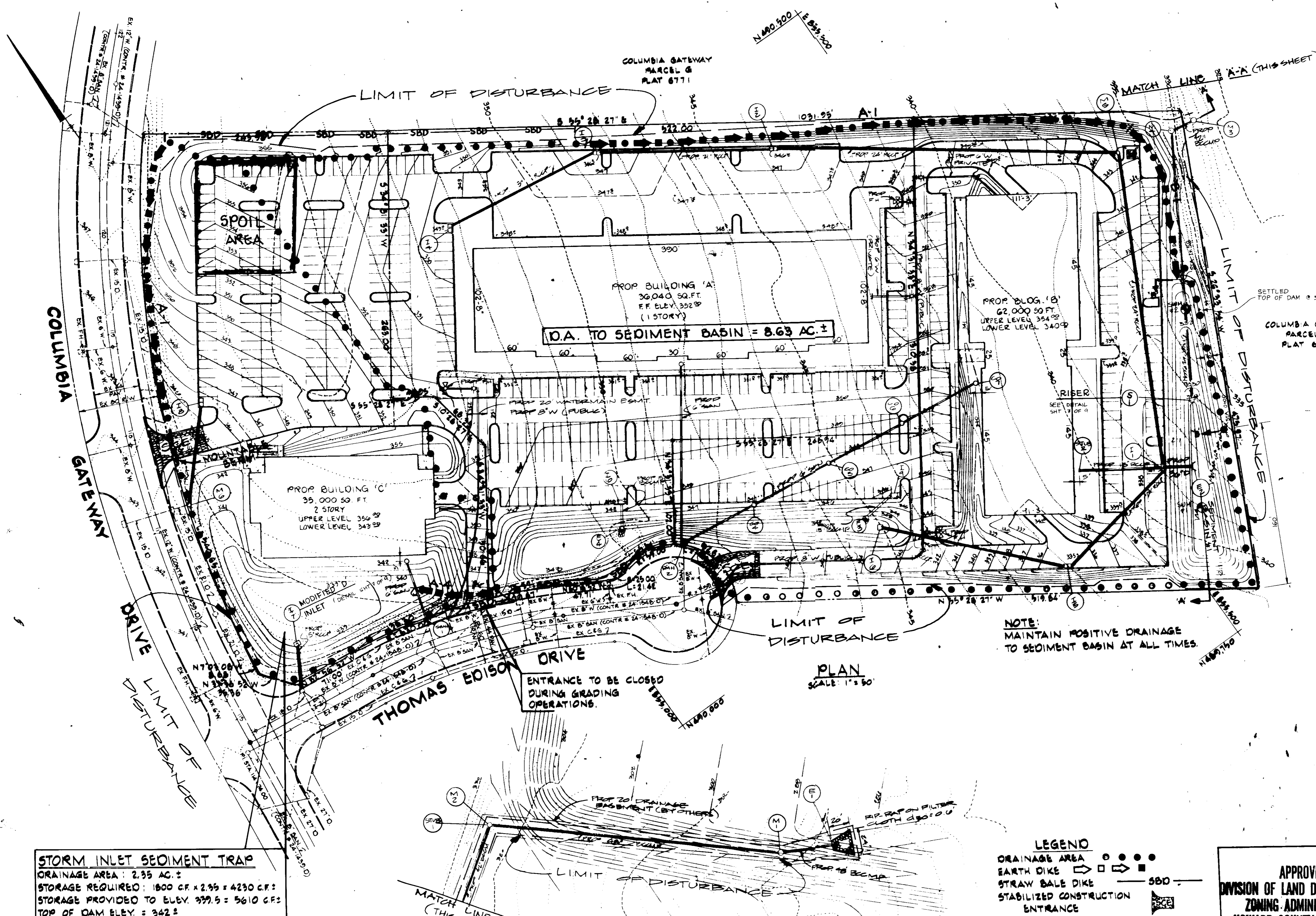
REVISIONS:

7 - 11 A-SUIT

STORMWATER MANAGEMENT PROFILES & DETAILS - FOR -
"COLGATE RIDGE"
COLUMBIA ANTEWAY
PARCELS H-1, H-2, H-3

TPA MAP 43
HOWARD CO, MD
SCALE: AS SHOWN
PN 00000

PARCEL # 501
ELECT. DIST. G
PERMITS: A-1401
SHEET 5 OF 6



BENCH MARK:
 WR # A #8 ELEVATION 351.66
 R.R. SPIKE IN BASE OF 10" TWIN POPLAR, 75 FEET LEFT OF COLUMBIA GATEWAY DRIVE STATION 123+45.
 WR # A #9 ELEVATION 338.65
 R.R. SPIKE IN BASE OF 14" OAK, 45 FEET LEFT OF CENTERLINE COLUMBIA GATEWAY DRIVE STATION 113+40

STORM INLET SEDIMENT TRAP
 DRAINAGE AREA: 2.35 AC. ±
 STORAGE REQUIRED: 1800 CF x 2.35 = 4230 CF ±
 STORAGE PROVIDED TO ELEV. 339.5 = 5610 CF ±
 TOP OF DAM ELEV. = 342.5
 2 YEAR W.S. ELEV. = 340.36
 10 YEAR W.S. ELEV. = 340.92
 LOWEST ELEV. IN TRAP = 338.5
 CLEANOUT ELEV. = 339.0

LEGEND
 DRAINAGE AREA ○ ○ ○ ○
 EARTH DIKE □ □ □ □
 STRAW BALE DIKE ————
 STABILIZED CONSTRUCTION ENTRANCE [Symbol]
 LIMIT OF DISTURBANCE [Symbol]

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 4-14-87

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.	<i>John H. Hehl</i>	5-7-87
U.S. Soil Conservation Service		Date
These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.	<i>Robert J. Zilman</i>	5-7-87
Approved:	Howard Soil Conservation District	Date
Plan Number		
Approved: For public water and public sewerage systems and sediment control meet the requirements of Howard County Health Department.	<i>Joyce Boyles</i>	5-15-87
City Health Officer		Date
Approved: Howard County Office of Planning & Zoning.	<i>Thomas L. Amick</i>	5-20-87
Director:		Date
Chief Division of Land Development & Zoning Administration	<i>John W. ...</i>	5-20-87
Approved: For public water and public sewerage storm drainage systems and public roads Howard County Department of Public Works.	<i>Ruth ...</i>	5-14-87
Director:		Date
Chief Bureau of Engineering	<i>...</i>	5-15-87
Date:		
ADDRESS CHART		
BUILDING #	STREET ADDRESS	
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
S		
T		
U		
V		
W		
X		
Y		
Z		
PLAT NUMBER		
PLAT YEAR		
PLAT		
WATER CODE		

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



OWNER/DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
 3511 E. NORTH AVE.
 BALTIMORE, MARYLAND 21213
 301-342-1100

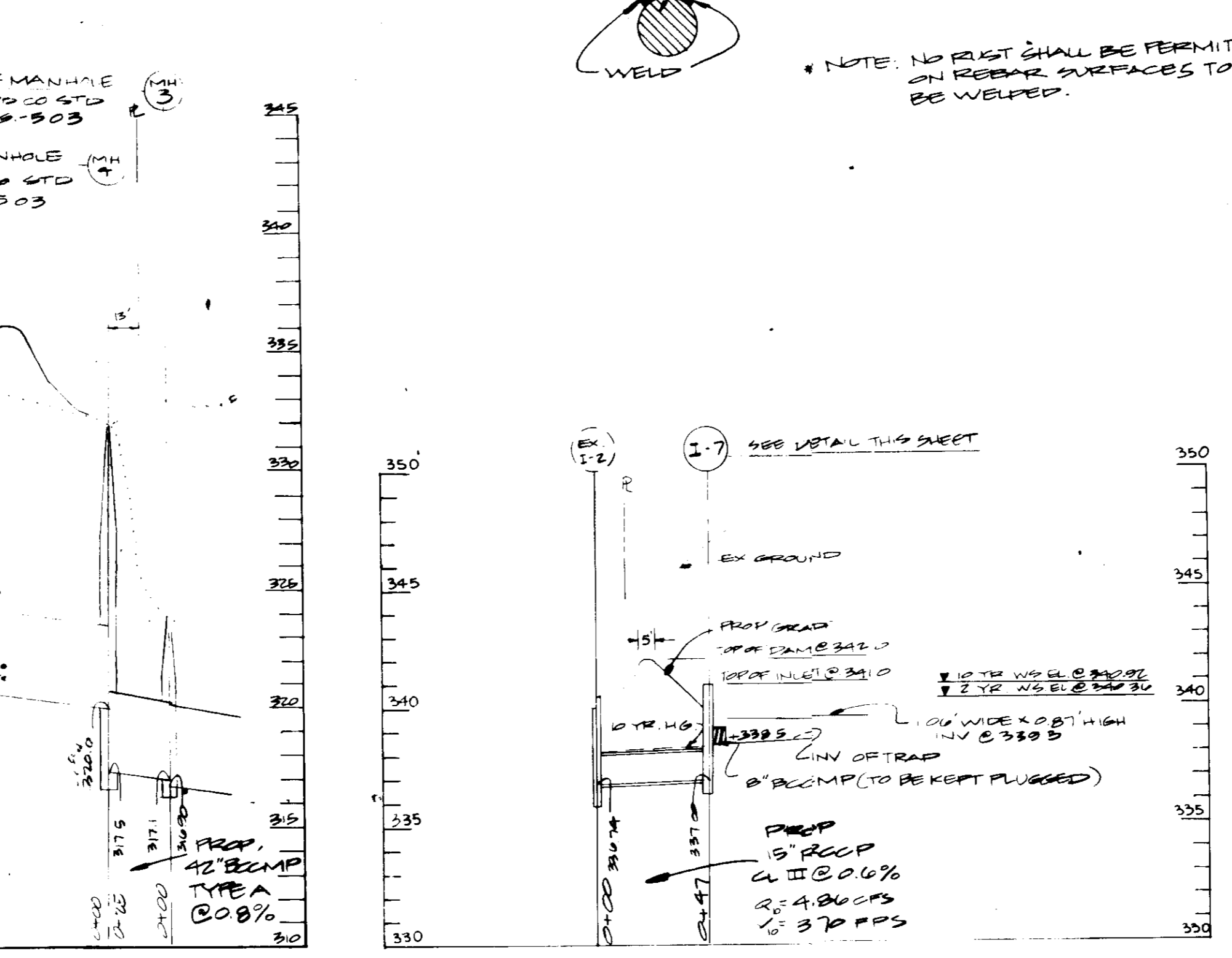
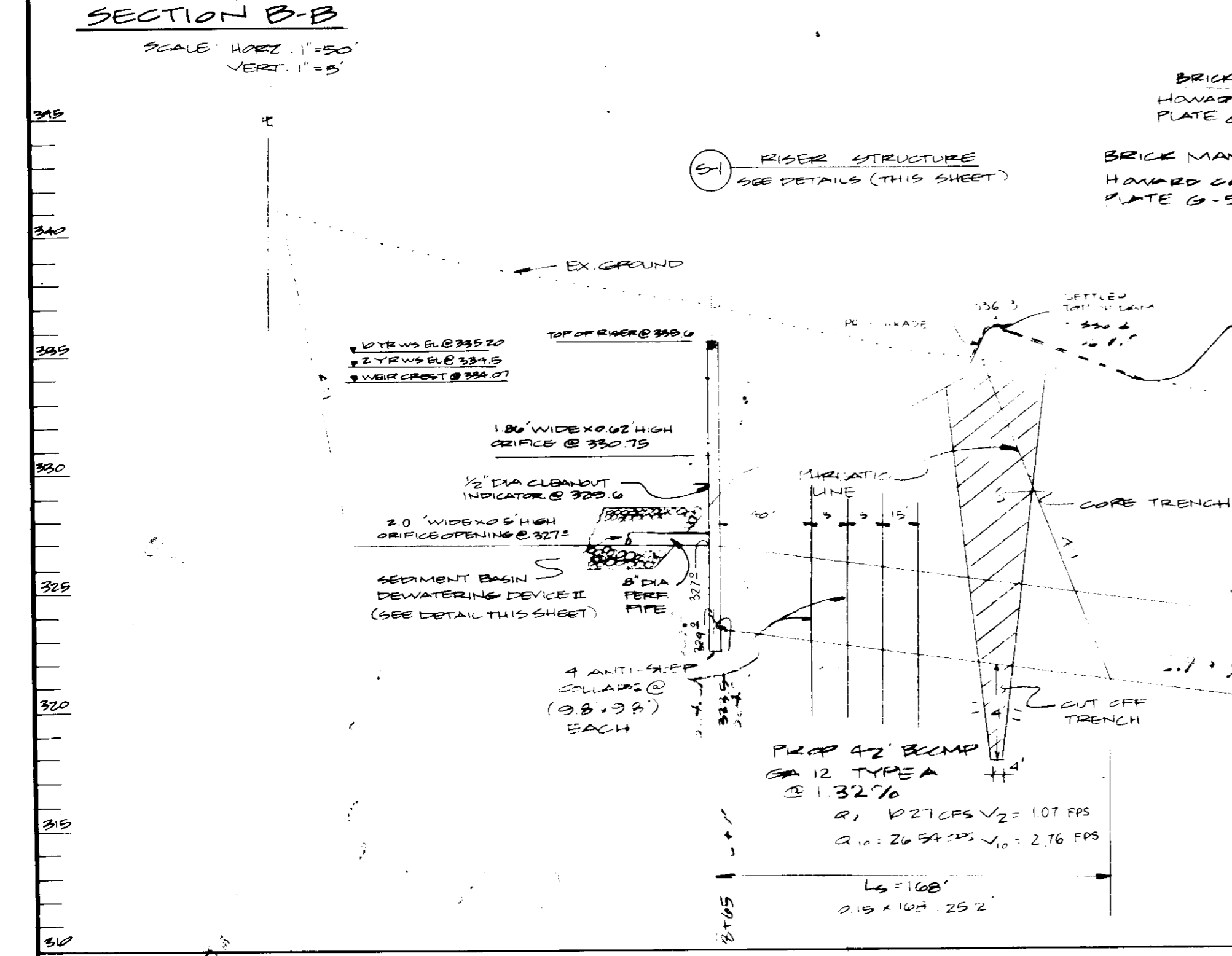
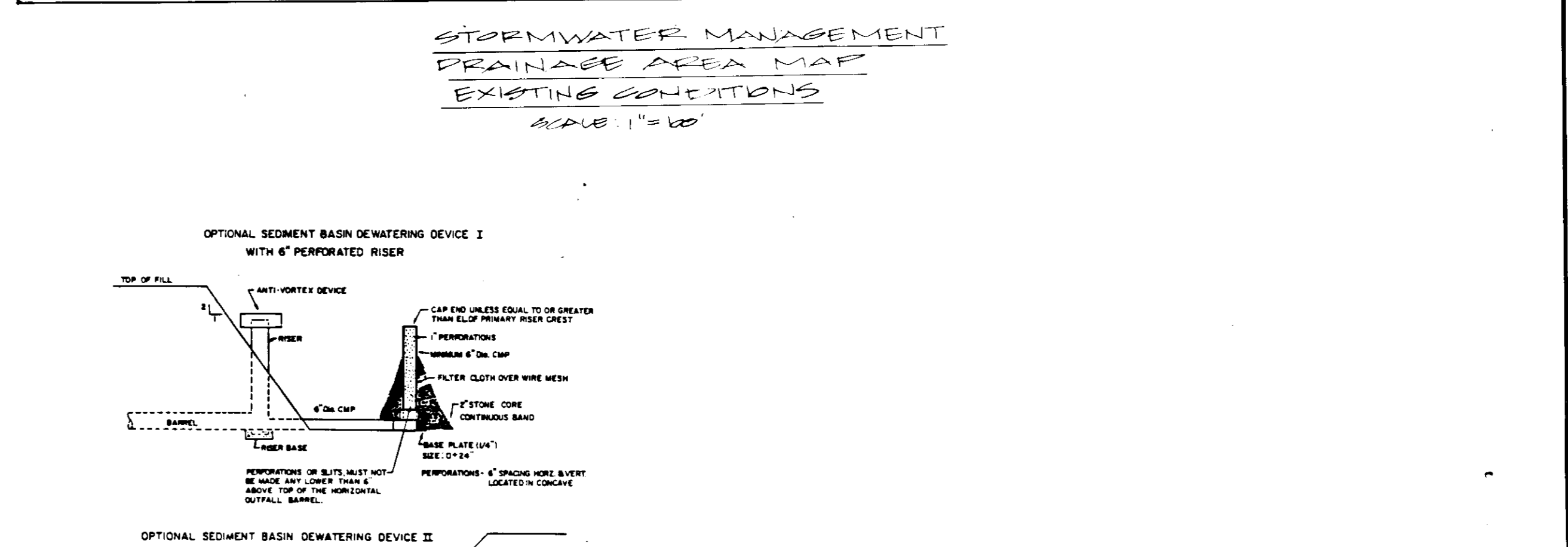
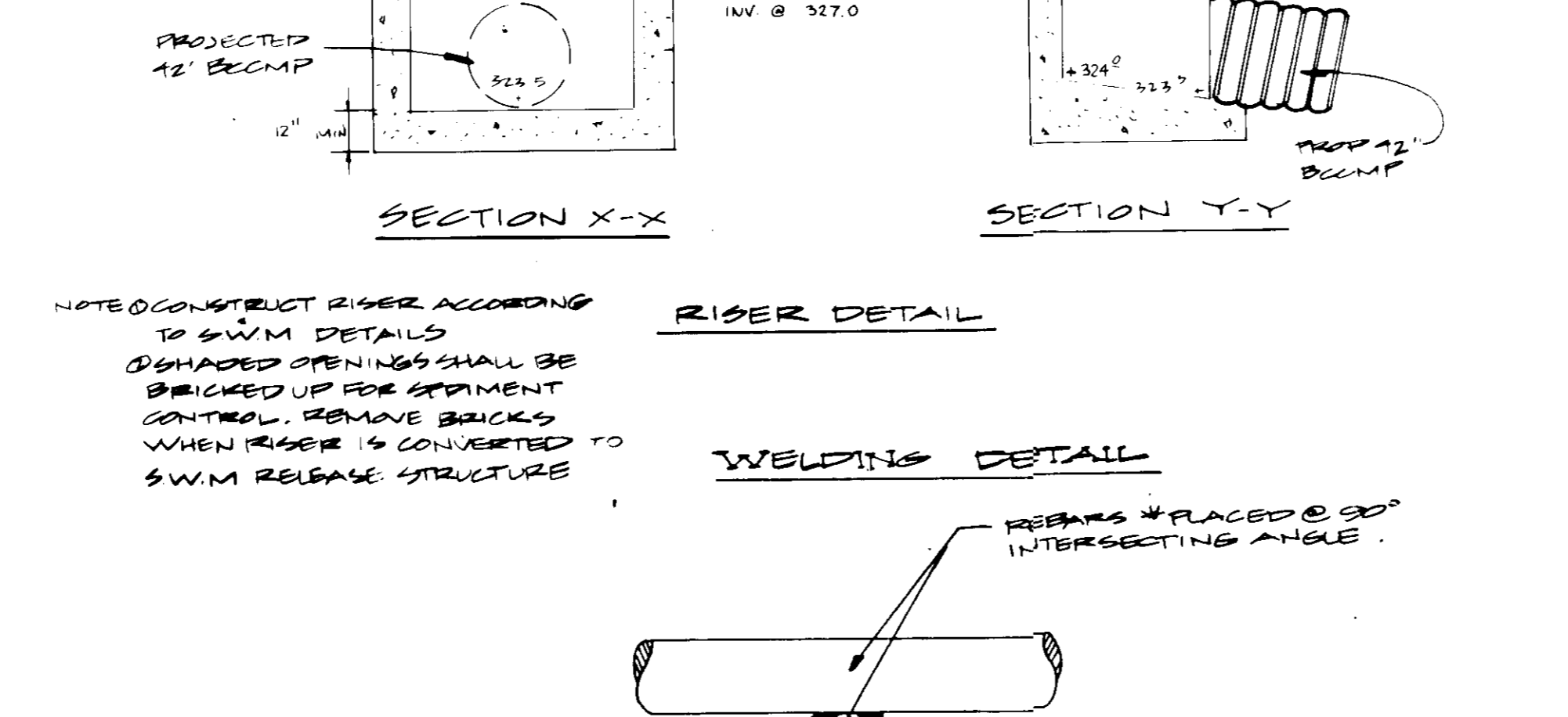
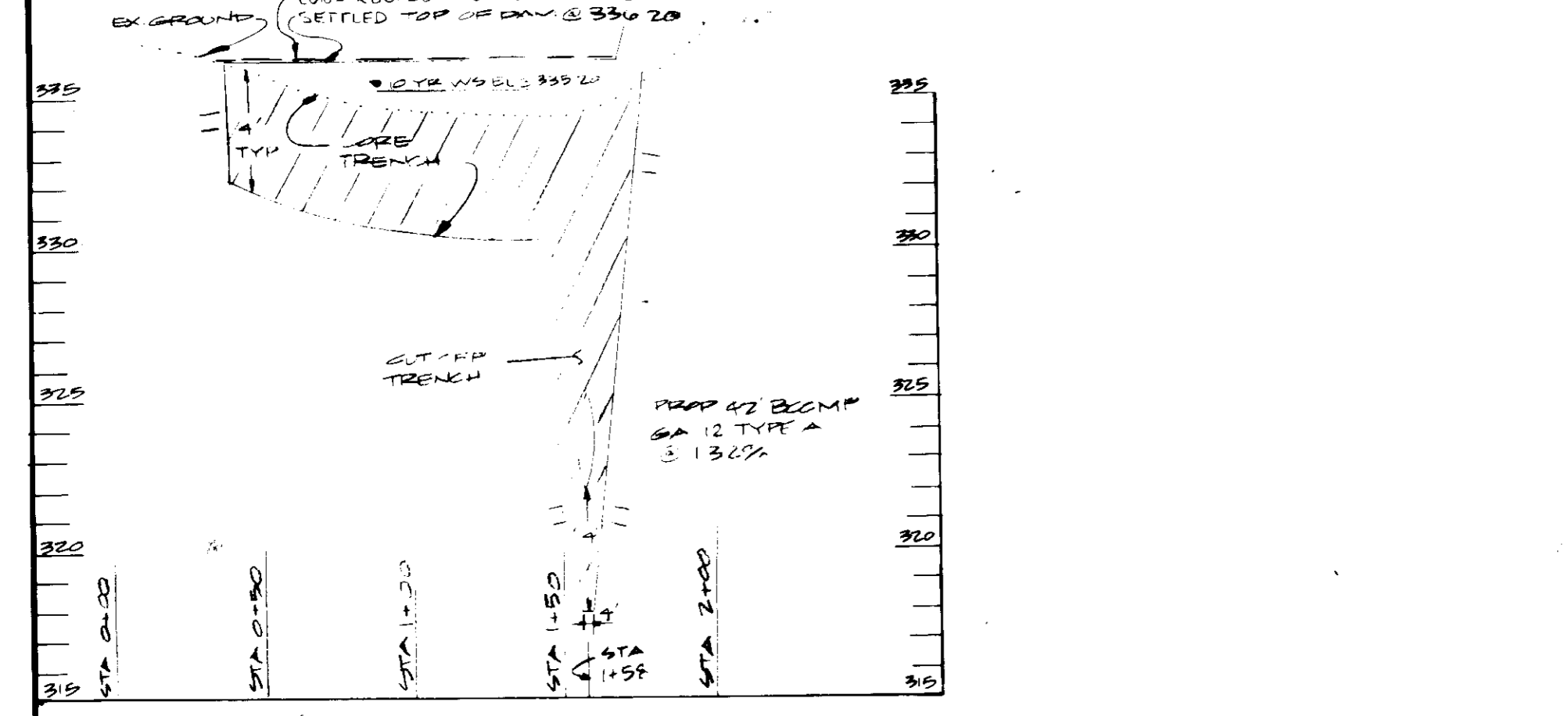
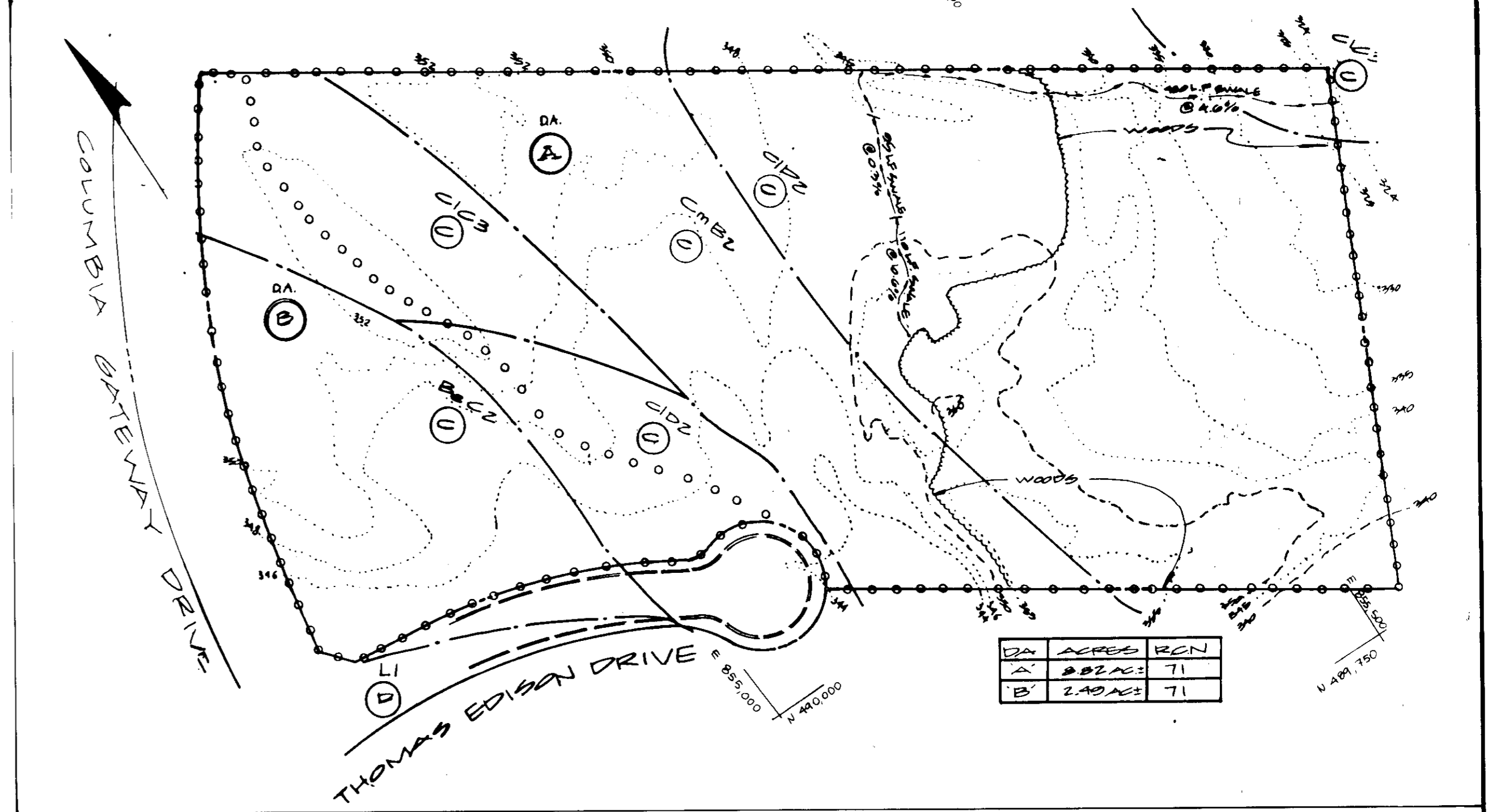
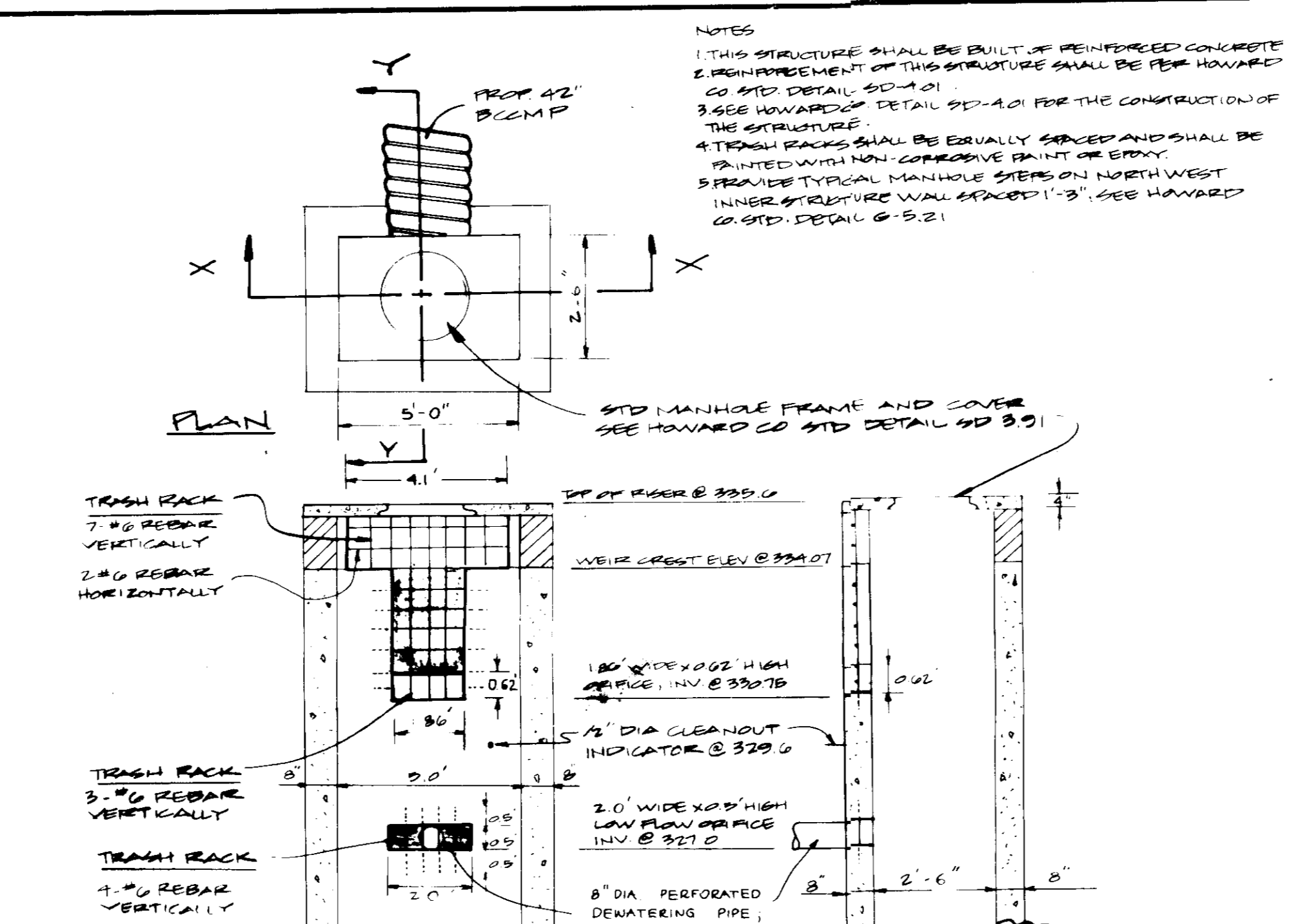
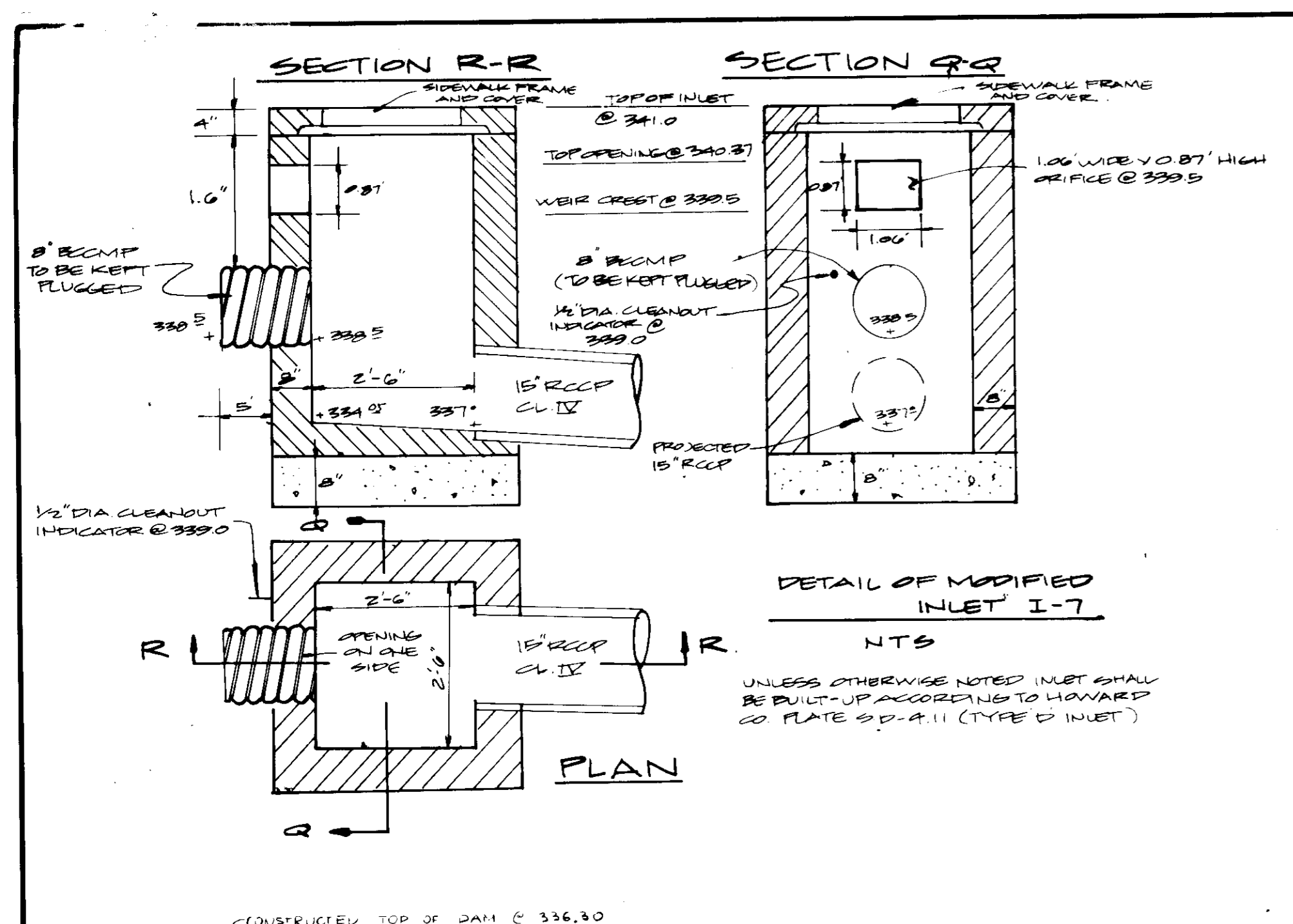
DEVELOPER'S CERTIFICATE:
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AS A PART OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. I ALSO AUTHORIZED PERSONS ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ABE ORDERED LEGISLATION. PERSONNEL FROM THE HOWARD SOIL CONSERVATION DISTRICT WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RECORDING OF THE PLAN WITHIN 30 DAYS OF COMPLETION.

Thomas L. Amick 5/20/87
 DATE

DESIGNED BY: IEFZ
DRAWN BY: KESE
CHECKED BY: TE
REVISIONS

SEDIMENT AND EROSION CONTROL PLAN
 PROPOSED OFFICE/WAREHOUSE
"COLGATE RIDGE"
 COLUMBIA GATEWAY
 PARCELS H-1, H-2, H-3
 TAX MAP 43
 HOWARD CO, MD
 SCALE: 1" = 50'
 PLOTTED BY

PARCEL # 581
 ELECT. EXIST. 6
 FURNISHED BY 4/19/87
 SHEET 6 OF 9



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
 DATE **4-14-87**

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

Approved: *James M. Hahn* 5-7-87
 U.S. Soil Conservation Service Date

Approved: *Robert J. Zahn* 5-7-87
 Howard Soil Conservation District Date

Plan Number

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

Approved: *James L. Hahn* 5-15-87
 County Health Officer Date

Approved: *John W. Hahn* 5-20-87
 Director Date

Approved: *John W. Hahn* 5-20-87
 Chief Division of Land Development & Zoning Administration Date

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

Approved: *Robert J. Zahn* 5-14-87
 Director Date

Approved: *John W. Hahn* 5-12-87
 Chief Bureau of Engineering Date

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

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.

George W. Stephens, Jr. 4/17/87
 ENGINEER REG. NO. 24178

OWNER/DEVELOPER
THOMAS EDISON 1 LIMITED PARTNERSHIP
 3511 E. NORTH AVE.
 BALTIMORE, MARYLAND 21213
 301-342-1100

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DEVELOPER: *Thomas Edison 1* DATE: 2-17-87

DESIGNED: *IRK*
 DRAWN: *JJD*
 CHECKED: *TO*
 REVISION

7-20-14 AS 3-11-T

SEDIMENT EROSION CONTROL PROFILES & DETAILS
 PREPARED OFFICE/WORKSHEET
COLGATE RIDGE
 COLUMBIA GATEWAY
 PARCELS H-1, H-1B, H-3

TR. MAP #3	PARCEL # 501
HOWARD CO. MAP	ELEC. DIST. #
SCALE: NO. SHOWN	PERMITS #, MDT
PROS. #28	SHEET 1 OF 1

AS-BUILT

CONSTRUCTION SPECIFICATIONS

- 1. SITE PREPARATION
2. FILL MATERIALS
3. CONSTRUCTION SPECIFICATIONS
4. CONCRETE
5. CURB AND GUTTER
6. PAVEMENT
7. UTILITIES
8. STORM DRAINAGE
9. SEDIMENT CONTROL
10. VEGETATION

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits...
2. All sediment control structures are to be installed according to the provisions of this plan...
3. Following initial soil disturbance or redistribution...
4. All sediment control structures must be fenced and warning signs posted around their perimeter...

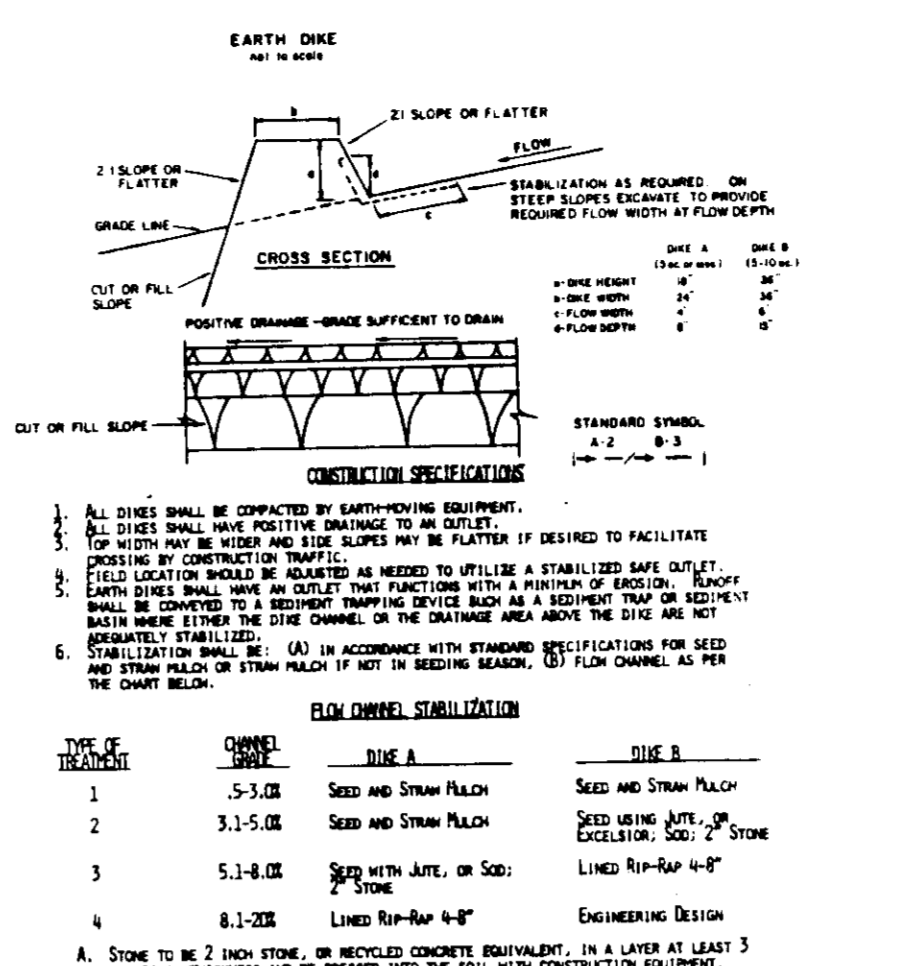
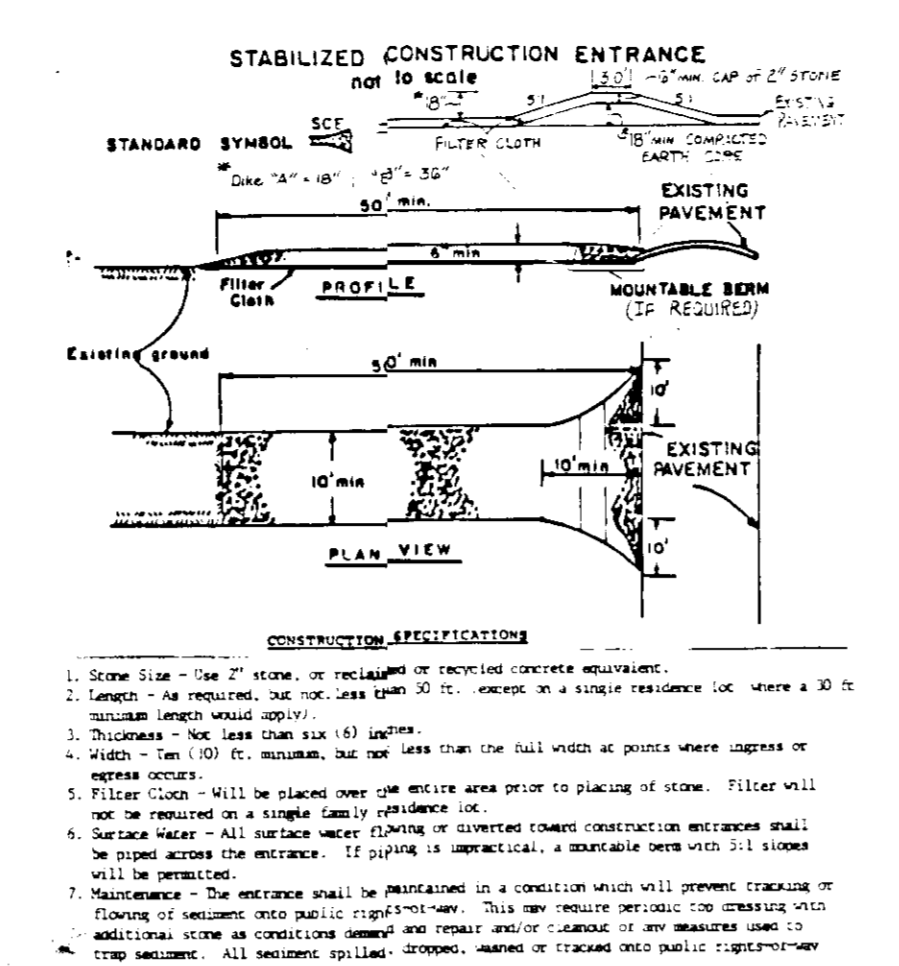
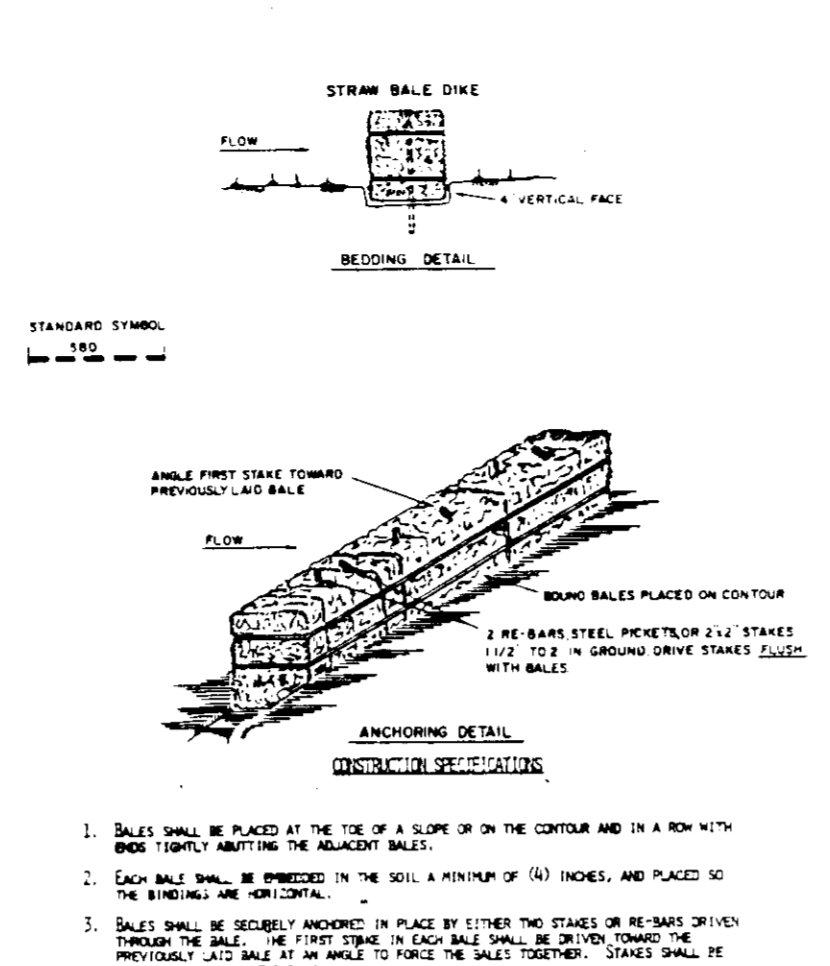


Table with 3 columns: TYPE OF MATERIAL, QUANTITY, and UNIT. Lists materials like concrete, steel, and lumber with their respective quantities and units.

- 1. Notify Howard County, Department of Inspections, Permit Inspector 2 Days
2. Clear and grub for sediment control measures only. 1 Day
3. Install stabilized construction entrances. 1 Day
4. Construct sediment basin (sediment basin shall be constructed per the construction specifications of storm water management ponds) per specifications as shown on sheet SW-10. 10 Days
5. Install all earth dikes and straw bale dikes maintaining positive drainage to the sediment basins at all times. 2 Days
6. Begin major grading and adjust diversion dikes as work progresses maintaining positive drainage to the sediment basins at all times. 12 Days
7. Install temporary dikes and other utilities, provide adequate protection for all inlets. 20 Days
8. Stabilize areas not receiving paving. 2 Days
9. Fine grade and install subbase material in parking and building areas. 14 Days
10. Fine grade any remaining areas and stabilize. 7 Days
11. After obtaining permission from the Sediment Control Inspector, clean out and convert the sediment basins to storm water management facilities. Have the necessary changes to the release structures according to the approved storm water management plans. 7 Days
12. After obtaining permission from the Sediment Control Inspector, remove the remaining sediment control devices and stabilize. 3 Days

- 1. CURB AND GUTTER
2. PAVEMENT
3. UTILITIES
4. STORM DRAINAGE
5. SEDIMENT CONTROL
6. VEGETATION

- 1. CURB AND GUTTER
2. PAVEMENT
3. UTILITIES
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5. SEDIMENT CONTROL
6. VEGETATION

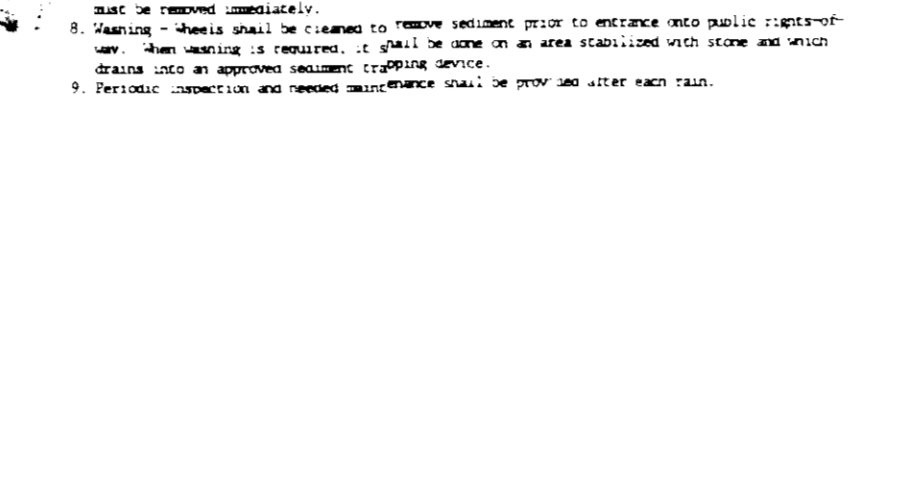
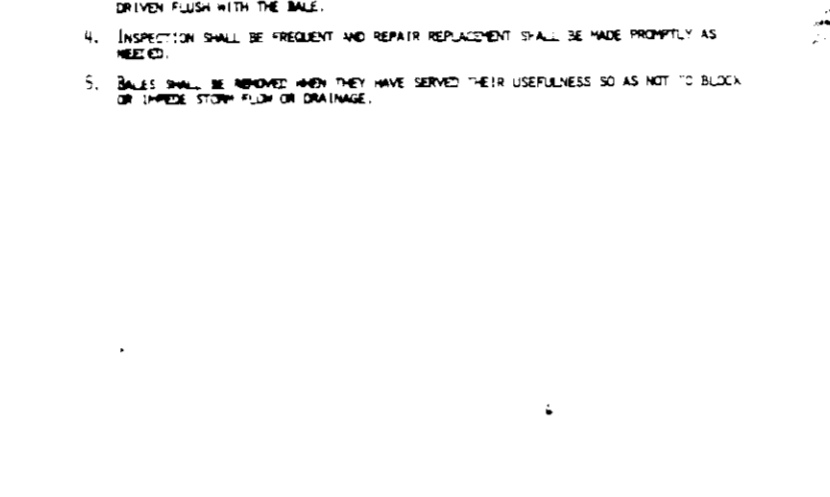


Table with 3 columns: ELEV, SOIL DESCRIPTION, STRATA DEPTH, and DEPTH SCALE. Shows soil profile data for Boring SWM #1.

Table with 3 columns: ELEV, SOIL DESCRIPTION, STRATA DEPTH, and DEPTH SCALE. Shows soil profile data for Boring SWM #2.

These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

- 1. CURB AND GUTTER
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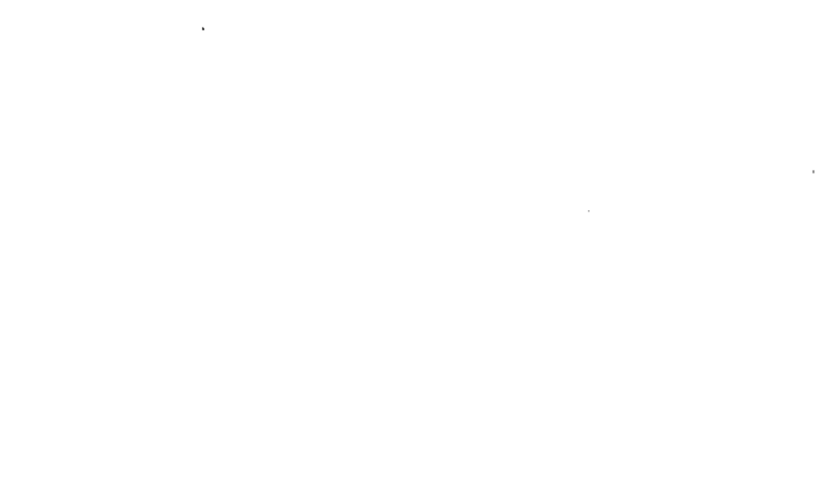


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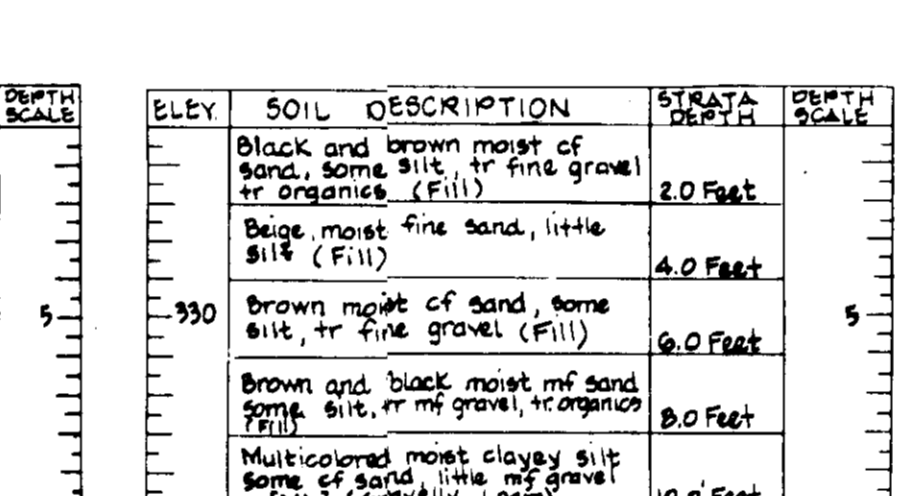
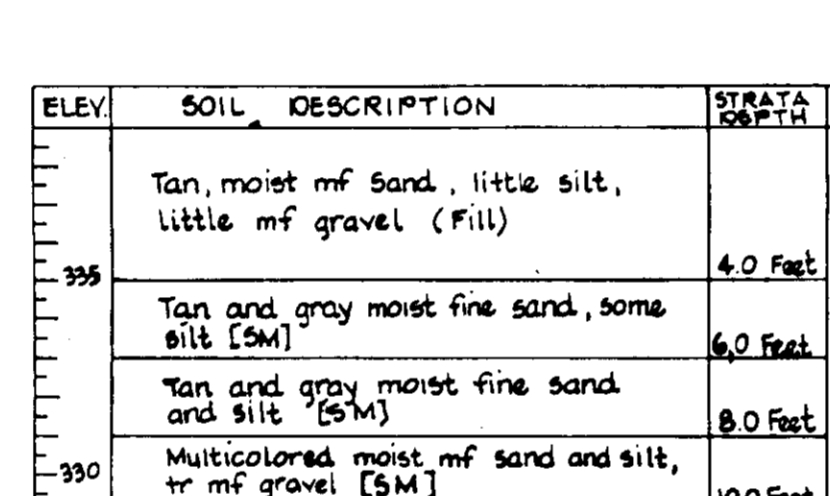


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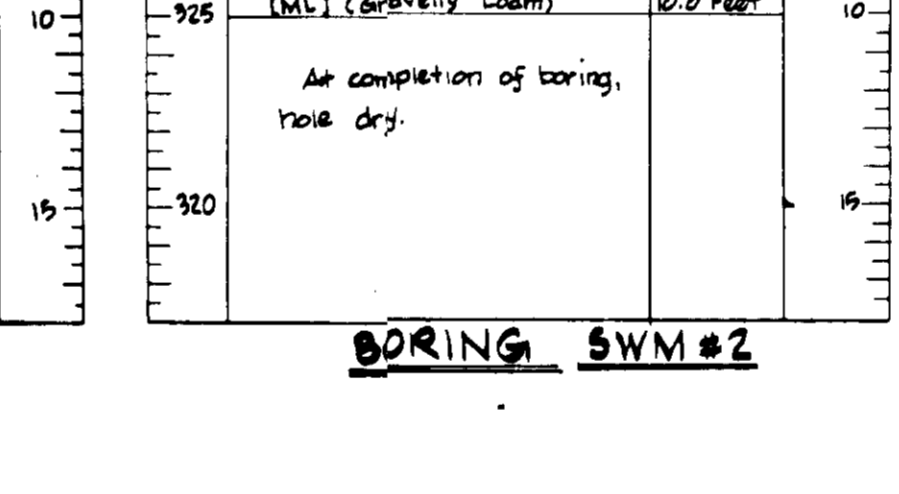
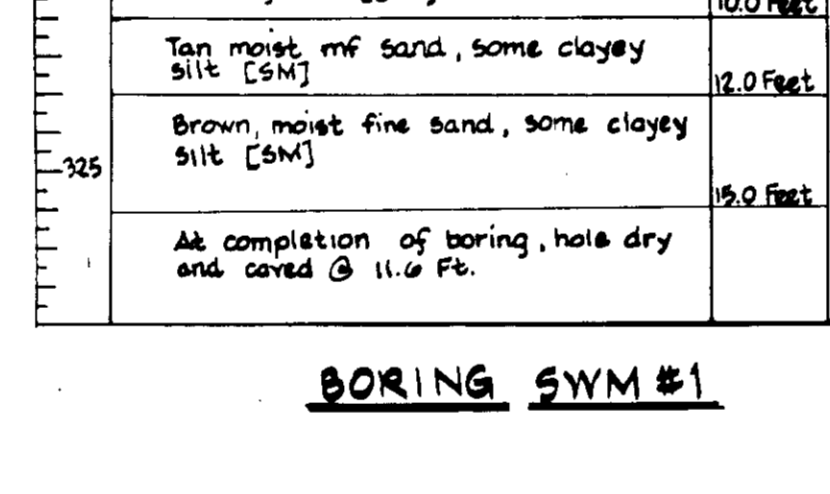


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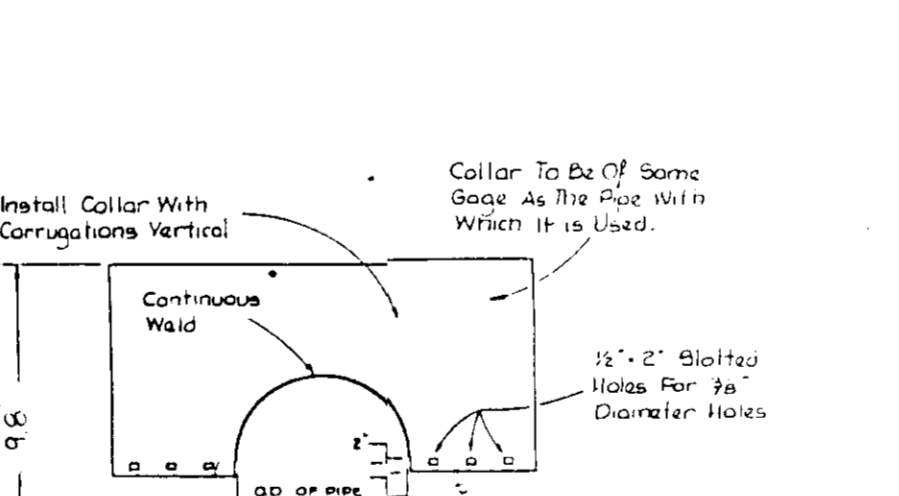
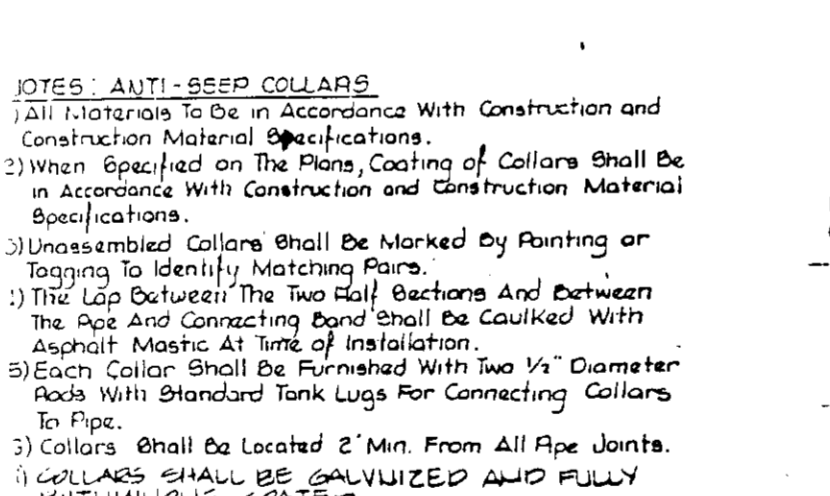


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6. VEGETATION

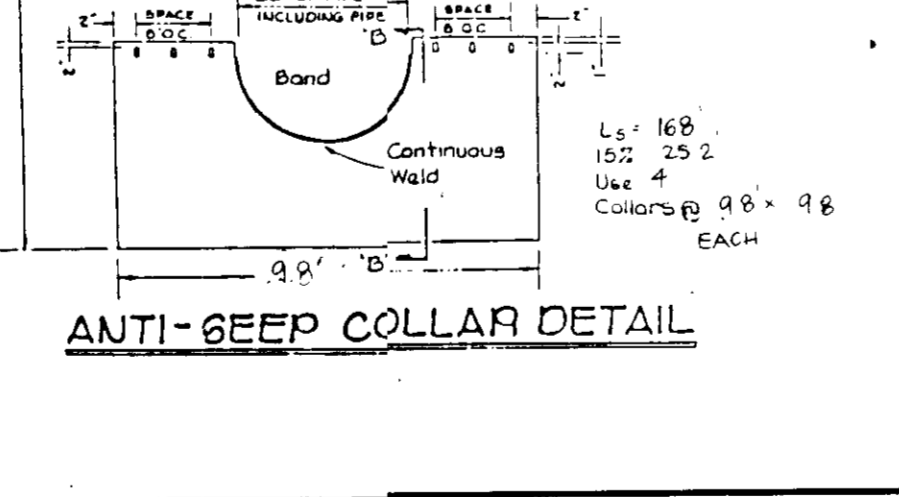
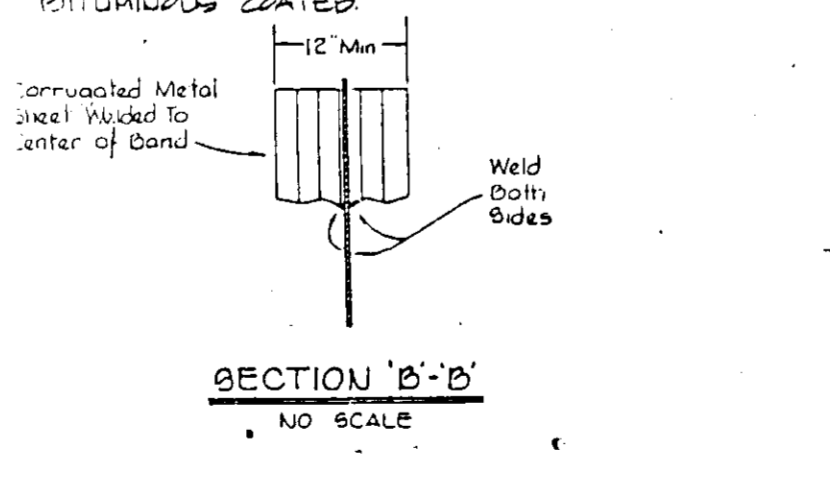


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These plans have been reviewed for the Howard Soil Conservation District meet the technical requirements for small pond construction, soil erosion and sediment control.

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS. 303 ALLEGHENY AVENUE TOWSON, MARYLAND 21204 (301)825-9120

STATE OF MARYLAND PROFESSIONAL ENGINEER LICENSE. THOMAS EDISON 1 LIMITED PARTNERSHIP. 3511 E. NORTH AVE. BALTIMORE, MARYLAND 21213. 301-342-1100

ENGINEER'S CERTIFICATE. I CERTIFY THAT THIS PLAN FOR SMALL POND CONSTRUCTION, STORM DRAINAGE AND SEDIMENT CONTROL... THOMAS EDISON 1 LIMITED PARTNERSHIP. DATE: 4/17/87

ENGINEER'S CERTIFICATE. I CERTIFY THAT ALL PROVISIONS AND CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS... THOMAS EDISON 1 LIMITED PARTNERSHIP. DATE: 3-17-87

ENGINEER'S CERTIFICATE. I CERTIFY THAT ALL PROVISIONS AND CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS... THOMAS EDISON 1 LIMITED PARTNERSHIP. DATE: 3-17-87

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 4-14-87

SEDIMENT CONTROL DETAILS & DETAILS. COLGATE RIDGE. COLUMBIA WATERWAY PROJECTS H.H., H.B., H.S. DATE: 3-17-87

