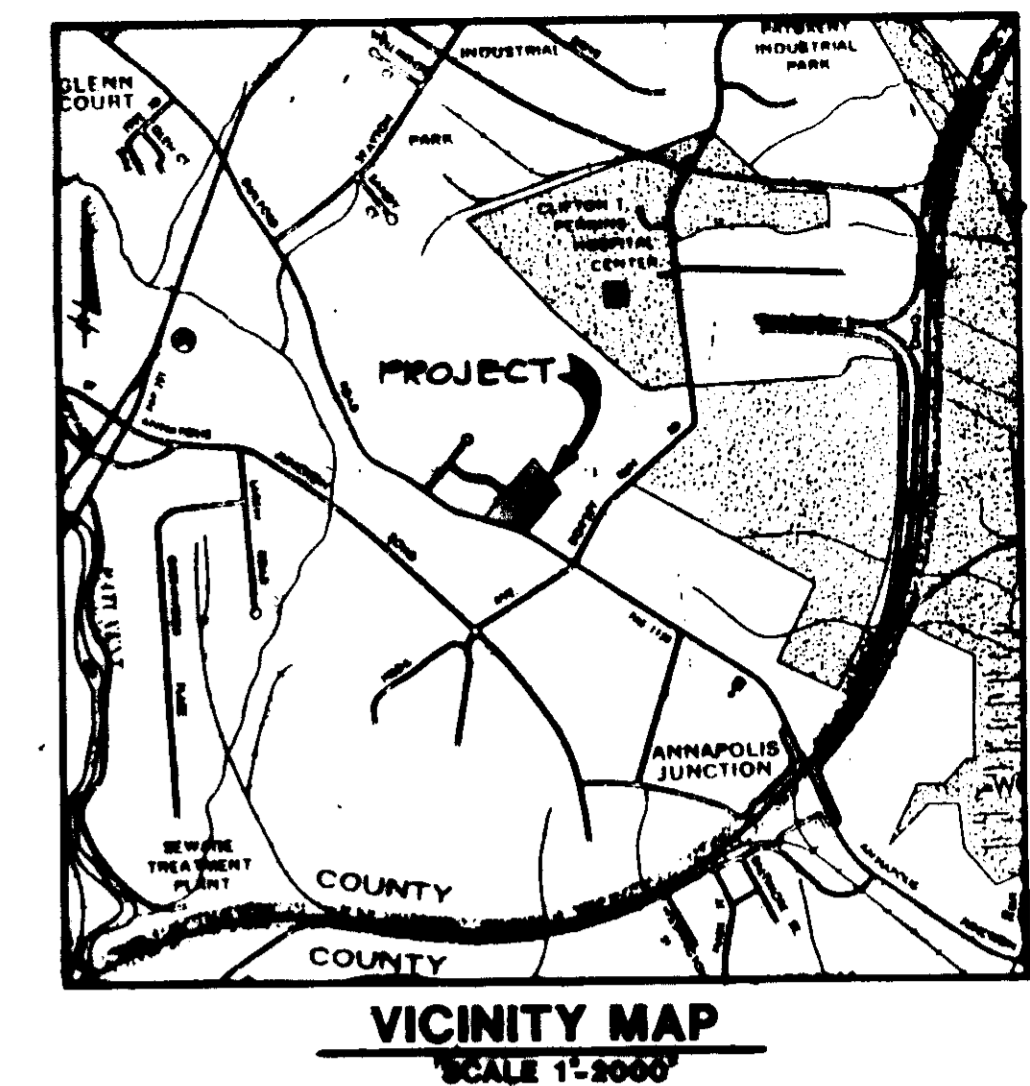


SHEET INDEX	
DESCRIPTION	
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	PROFILES
4	ENLARGEMENTS AND DETAILS
5	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
6	NOTES AND DETAILS
7	PLANTING AND LIGHTING

# SITE DEVELOPMENT PLAN PARCEL C-8 CORRIDOR NORTH INDUSTRIAL PARK SECTION 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



**GENERAL NOTES**

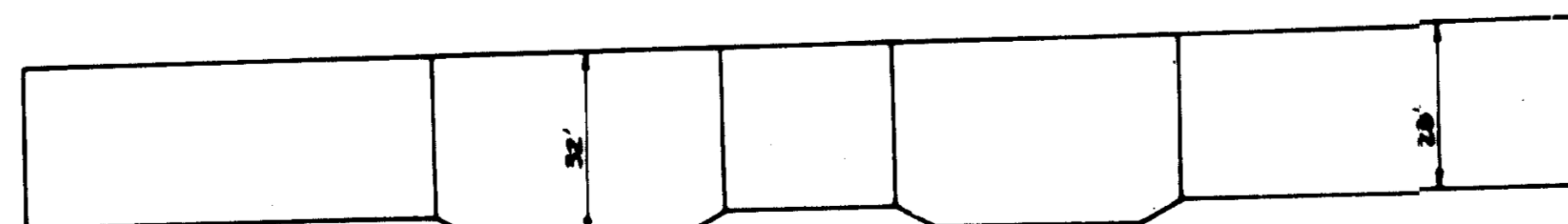
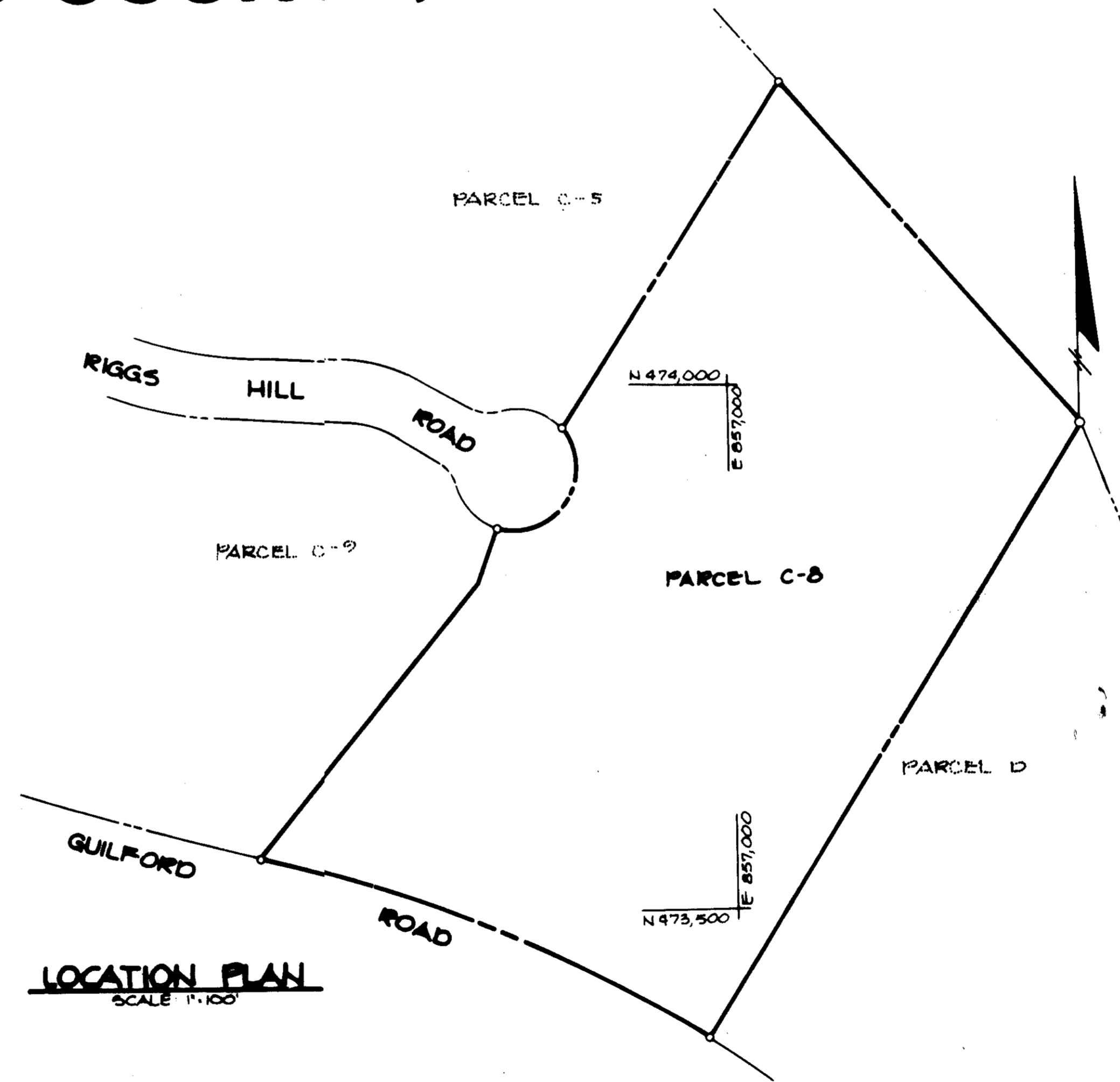
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
CAP TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED DECEMBER 1986.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

**SITE TABULATION**

GROSS AREA OF PROPERTY	7,610 AC.
GROSS AREA OF SUBMISSION	7,610 AC.
PRESENT ZONING:	M-2
GROSS AREA OF ONE STORY BUILDING	120,233 S.F.
BUILDING USE: OFFICE/WAREHOUSE	
OPEN SPACE REQUIRED:	20% (66,298 S.F.)
OPEN SPACE PROVIDED:	37% (121,028 S.F.)
PARKING REQUIRED:	
(AS STATED IN LETTER)	
50 OFFICE EMPLOYEES @	35 SPACES
7 SPACES PER 10 EMPLOYEES	
200 WAREHOUSE EMPLOYEES @	100 SPACES
1 SPACE PER 2 EMPLOYEES	
TOTAL PARKING REQUIRED	135 SPACES
TOTAL PARKING PROVIDED	156 SPACES
HANDICAP PARKING REQUIRED	5 SPACES
HANDICAP PARKING PROVIDED	5 SPACES
LANDSCAPE ISLANDS REQUIRED	5% (2,215 S.F.)
LANDSCAPE ISLANDS PROVIDED	7% (3,118 S.F.)
MAXIMUM NUMBER OF TENANTS	4



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
C-8	10640 RIGGS HILL ROAD

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-23-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
*John W. ...* 5-27-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John W. ...* 6-3-87  
PLANNING DIRECTOR DATE  
*John W. ...* 6-28-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John W. ...* 5-87  
DIRECTOR DATE  
*John W. ...* 5-87  
CHIEF, BUREAU OF ENGINEERING DATE

REVISIONS  
DATE NO REVISION  
OWNER: C-8 LIMITED PARTNERSHIP SUITE 101 8950 BRISTOL COURT JESSUP, MARYLAND 20794  
DEVELOPER: SIENA CORPORATION SUITE 101 8950 BRISTOL COURT JESSUP, MARYLAND 20794

PROJECT: CORRIDOR NORTH PARCEL C-8  
AREA: CORRIDOR NORTH PARCEL C-8  
TAX MAP NO. 48  
HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

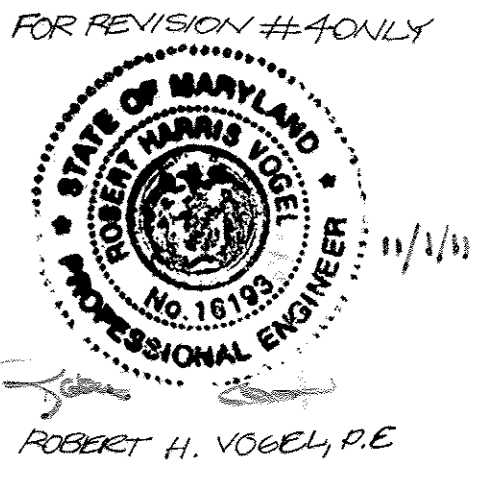
THE RIEMER GROUP, INC.  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2890

DATE: 2/20/87  
DESIGNED BY: J.K.E.  
DRAWN BY: B.M.B.  
PROJECT NO: 88088  
DATE: 2-20-87  
SCALE: AS SHOWN  
SHEET NO. 1 OF 7

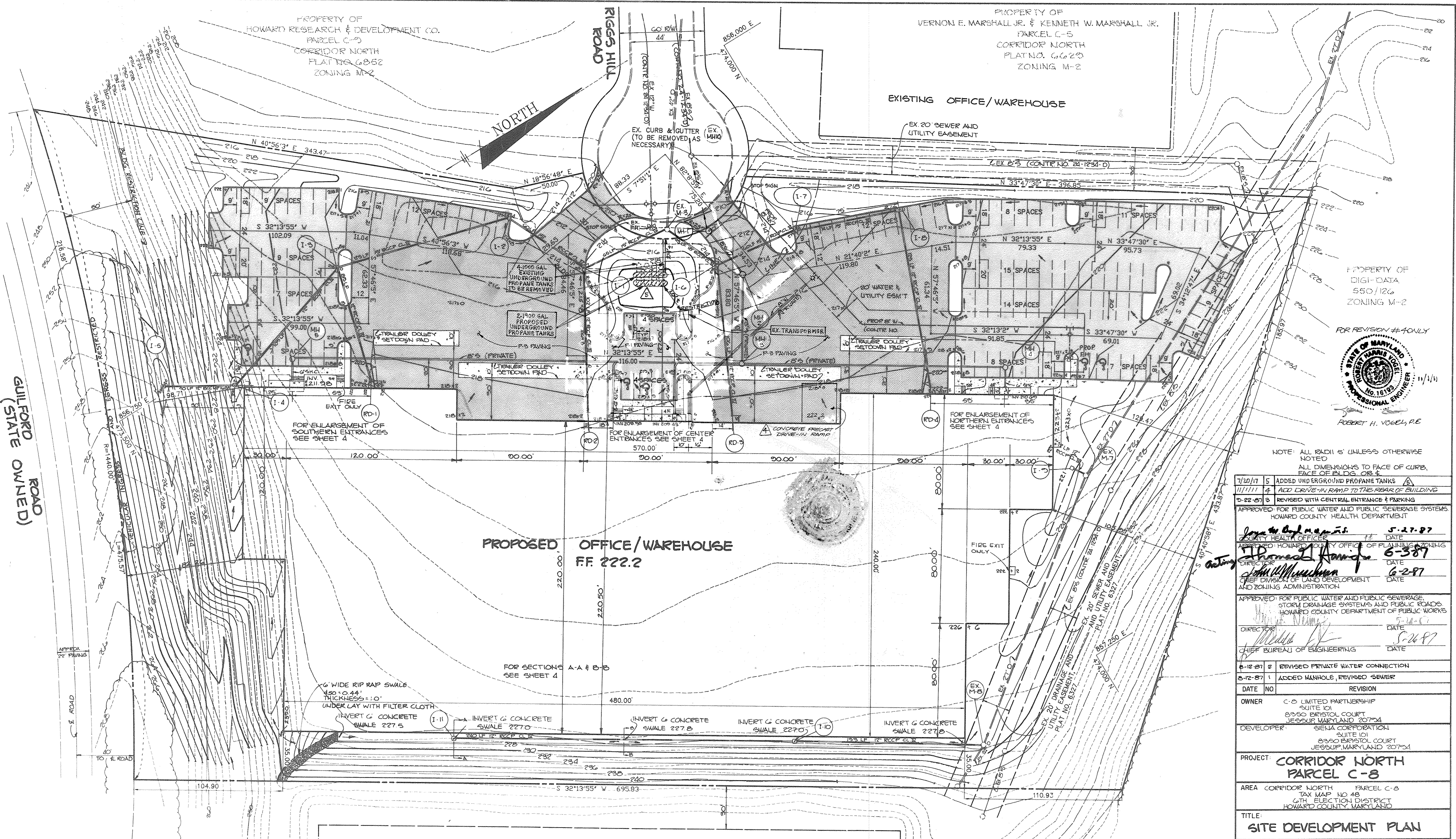
PROPERTY OF  
HOWARD RESEARCH & DEVELOPMENT CO.  
PARCEL C-5  
CORRIDOR NORTH  
PLAT NO. G862  
ZONING M-2

PROPERTY OF  
VERNON E. MARSHALL JR. & KENNETH W. MARSHALL JR.  
PARCEL C-5  
CORRIDOR NORTH  
PLAT NO. G820  
ZONING M-2

PROPERTY OF  
DIGI-DATA  
550/126  
ZONING M-2



ROAD  
GUILFORD  
(STATE OWNED)



**PROPOSED OFFICE/WAREHOUSE**  
F.F. 222.2

PROPERTY OF  
SOUTHLAND MARYLAND PROPERTIES  
PARCEL D  
CORRIDOR NORTH  
PLAT NO. G827  
ZONING M-2

EXISTING OFFICE / WAREHOUSE

NOTE: ALL RADII 5' UNLESS OTHERWISE NOTED.  
ALL DIMENSIONS TO FACE OF CURB, FACE OF BLDG. OR E.

7/10/17	5	ADDED UNDERGROUND PROPANE TANKS
11/11/11	4	ADD DRIVE-IN RAMP TO THE REAR OF BUILDING
8-22-87	3	REVISED WITH CENTRAL ENTRANCE & PARKING

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

<i>John A. DeMunnis</i>	5-27-87
HEALTH OFFICER	DATE
<i>Thomas J. Davis</i>	6-3-87
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE
<i>John W. Muschka</i>	6-2-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

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

<i>Michael J. ...</i>	5-16-87
DIRECTOR	DATE
<i>...</i>	5-26-87
CHIEF BUREAU OF ENGINEERING	DATE

8-12-87	2	REVISED PRIVATE WATER CONNECTION
8-12-87	1	ADDED MANHOLE, REVISED SEWER

OWNER	C-5 LIMITED PARTNERSHIP SUITE 101 8350 BRISTOL COURT JESSUP MARYLAND 20794
DEVELOPER	SIENA CORPORATION SUITE 101 8350 BRISTOL COURT JESSUP MARYLAND 20794

PROJECT	CORRIDOR NORTH PARCEL C-8
AREA	CORRIDOR NORTH PARCEL C-8 TAX MAP NO. 48 6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE:  
**SITE DEVELOPMENT PLAN**

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2800

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: **3-23-87**

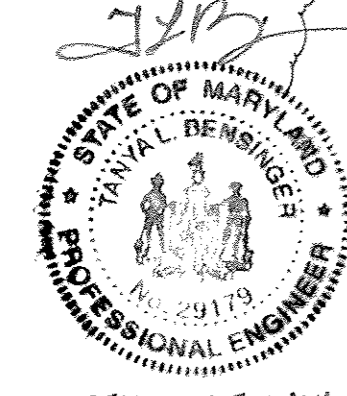
**LEGEND**

	P-1 PAVING
	P-3 PAVING
	CONCRETE PAVING OF SIDEWALK

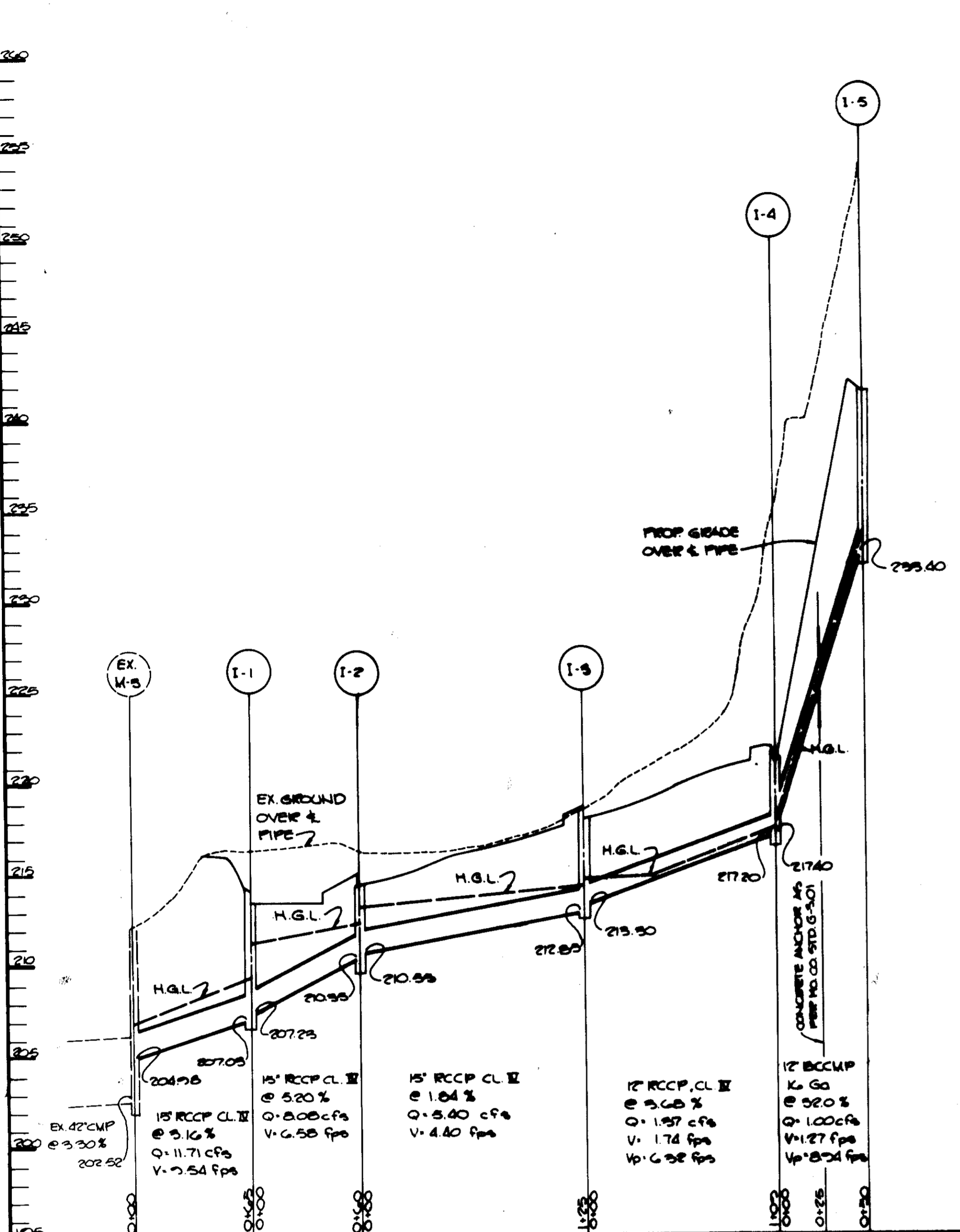
\* DENOTES TRANSITION FROM REVERSE C&S TO STANDARD C&S

2-20-87	DATE
DESIGNED BY: J.K.B.	
DRAWN BY: M.A.D.	
PROJECT NO: 36000	
DATE: 2-20-87	
SCALE: 1"=30'	
DRAWING NO. 2 OF 7	

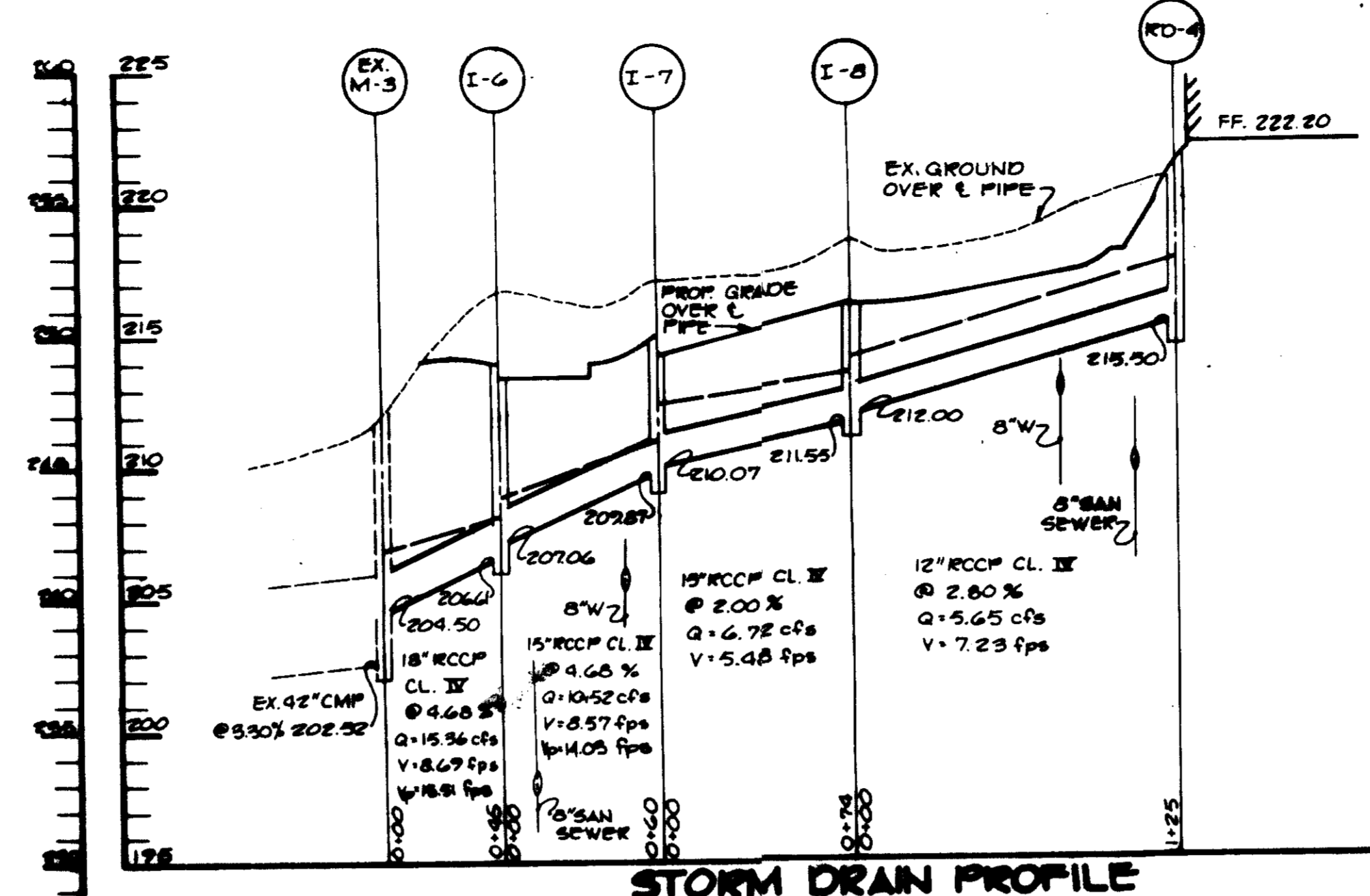
PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE  
DOCUMENTS WERE PREPARED OR  
APPROVED BY ME, AND THAT I AM  
A DULY LICENSED PROFESSIONAL  
ENGINEER UNDER THE LAWS OF THE  
STATE OF MARYLAND.  
LICENSE NO. 24174  
EXPIRATION DATE: 06-16-14



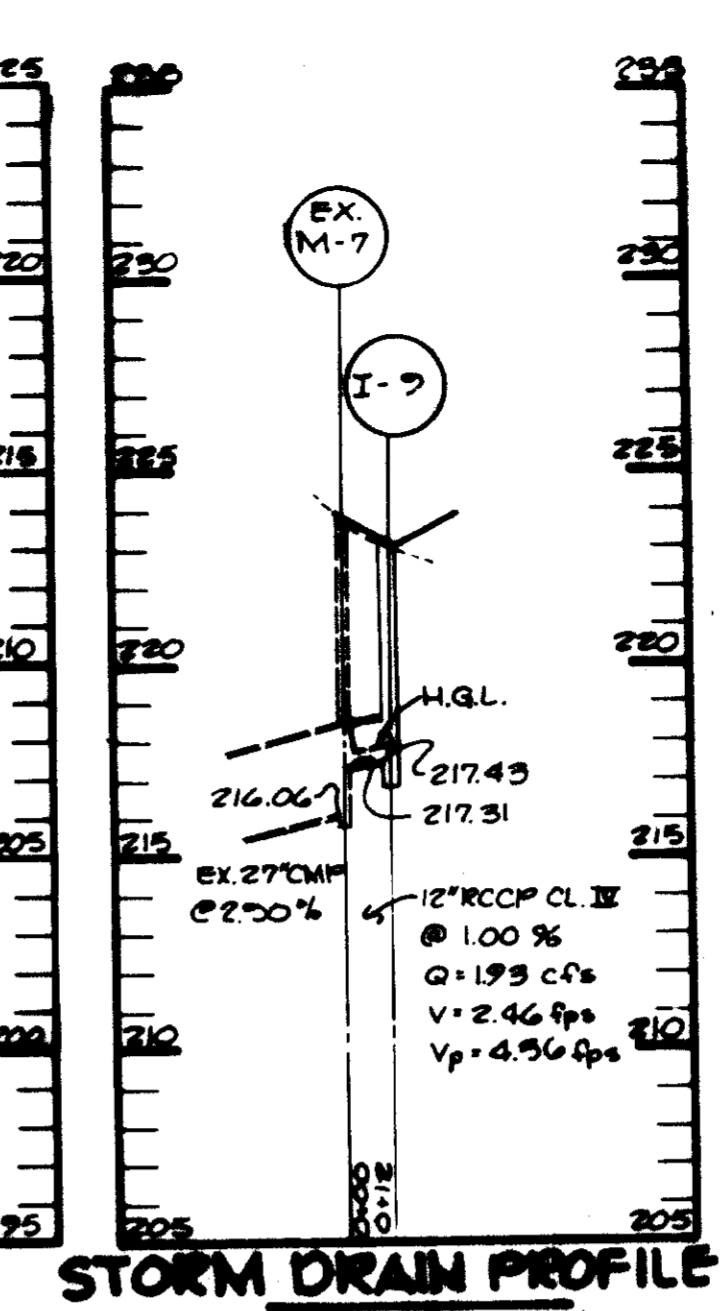
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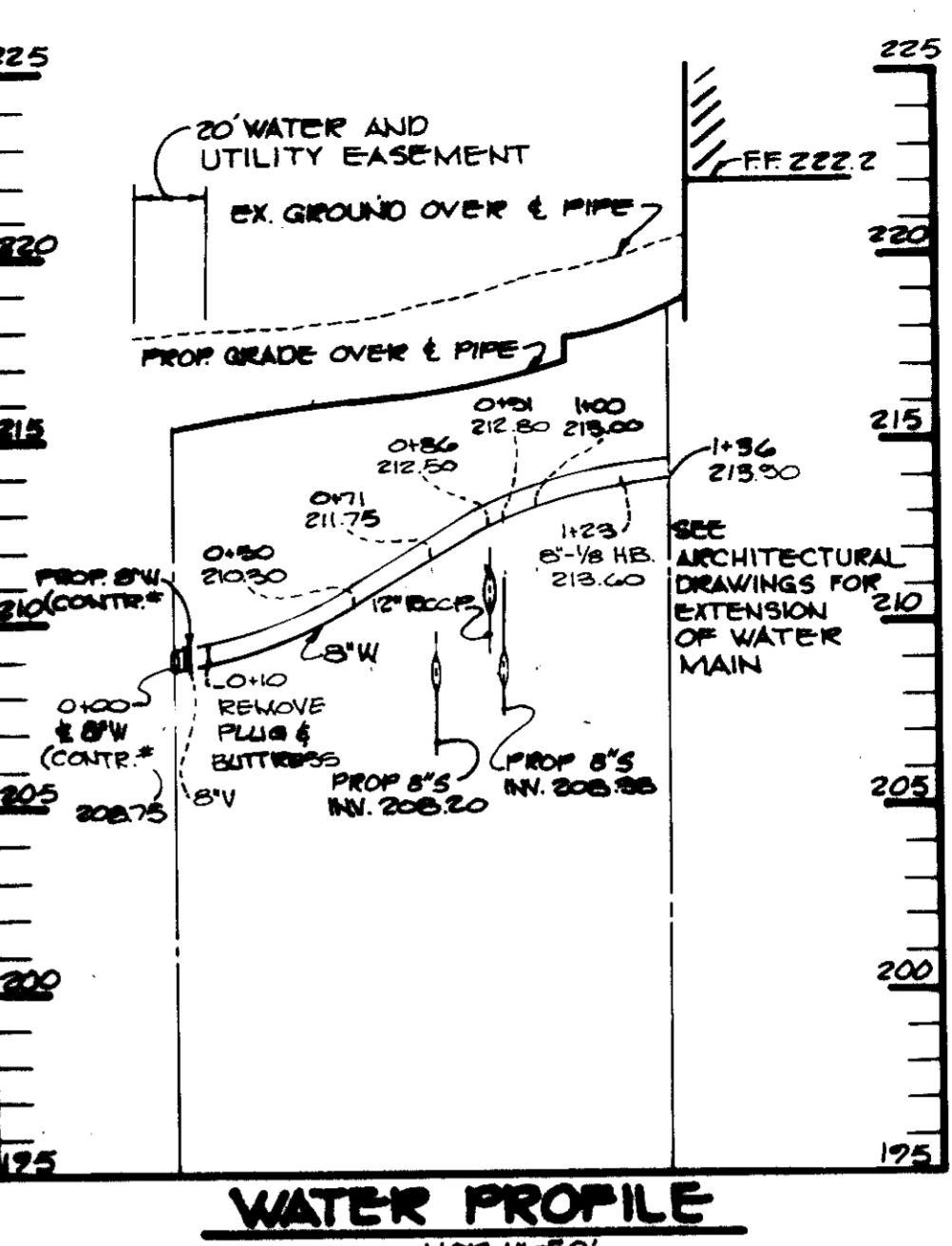
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



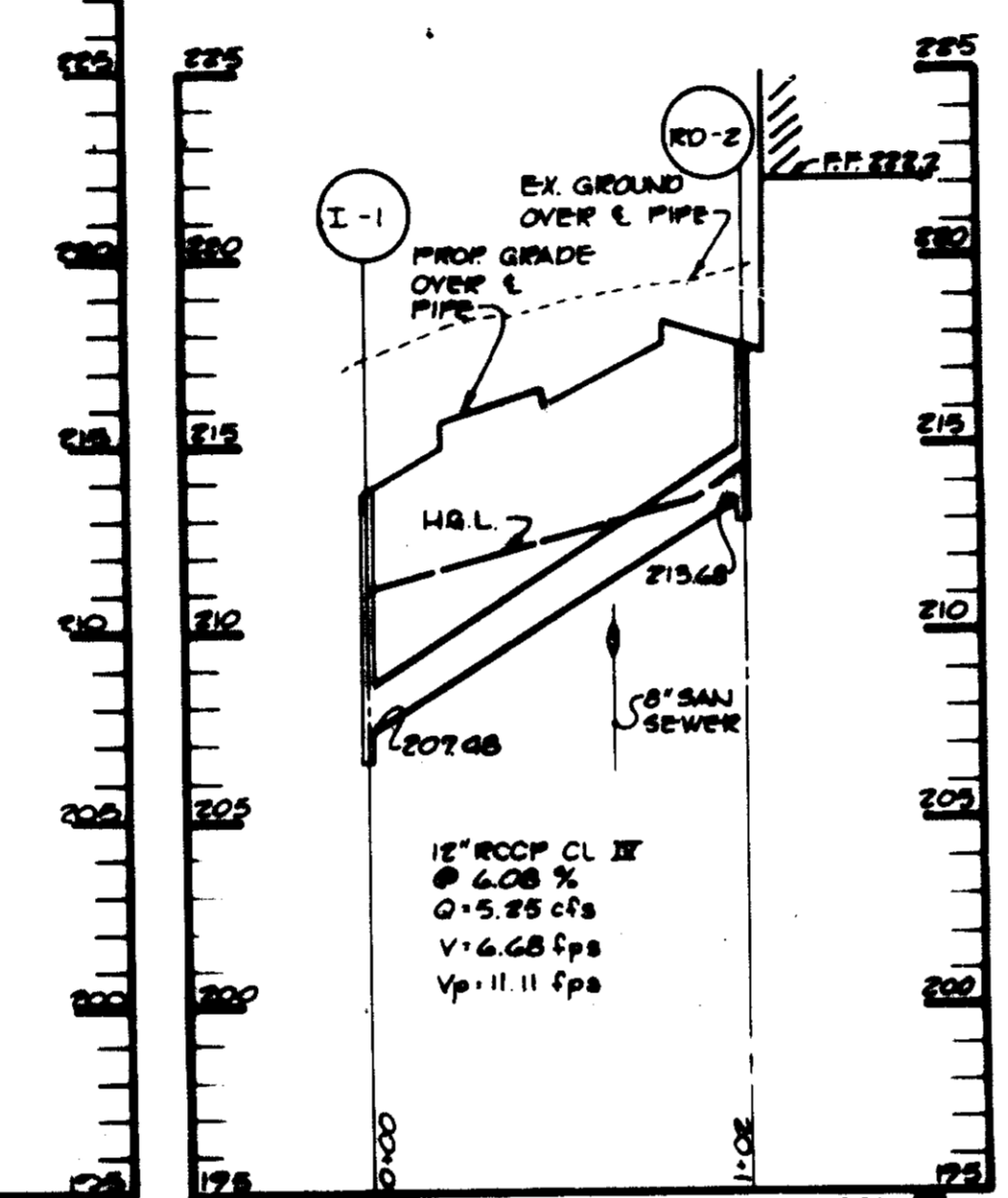
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



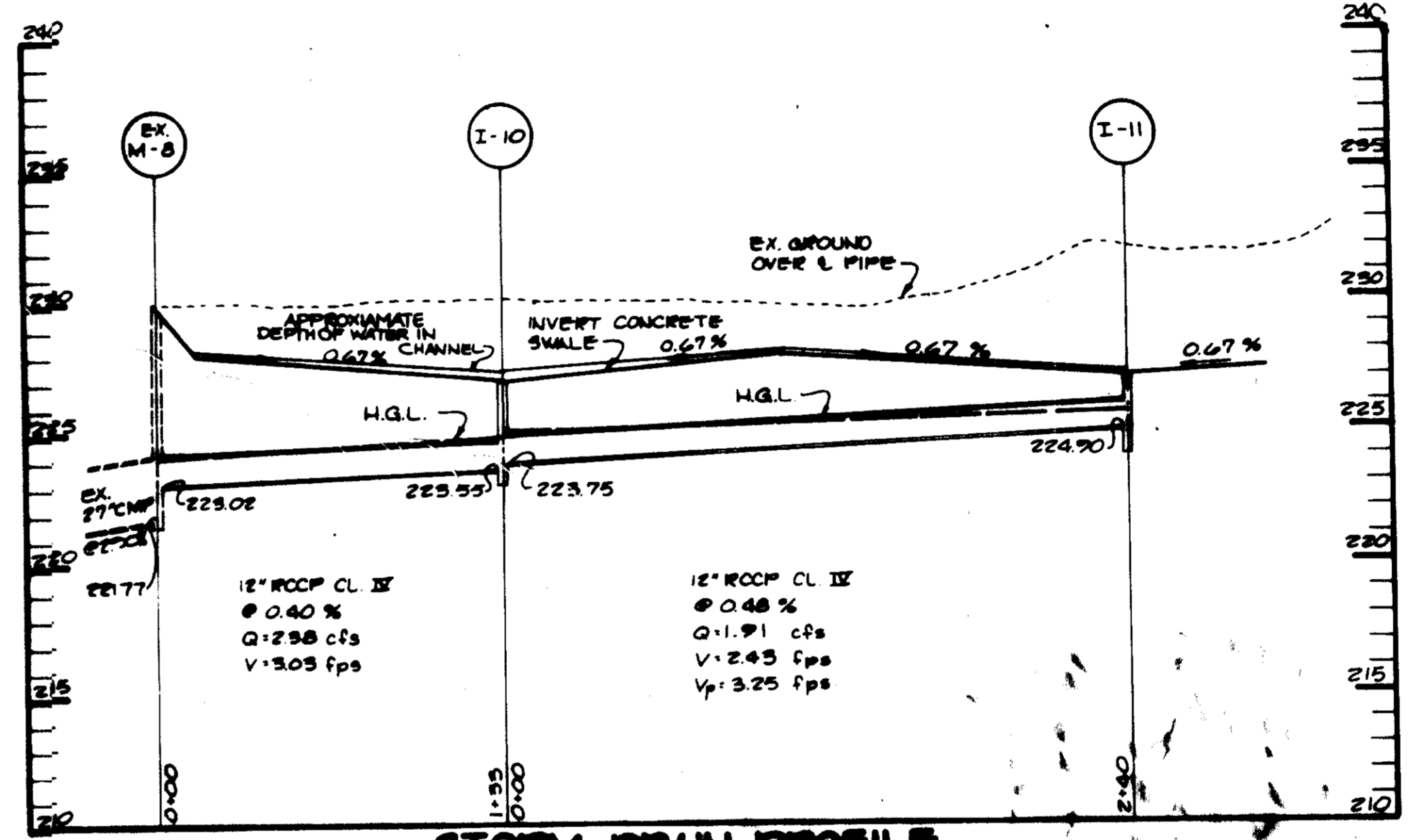
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



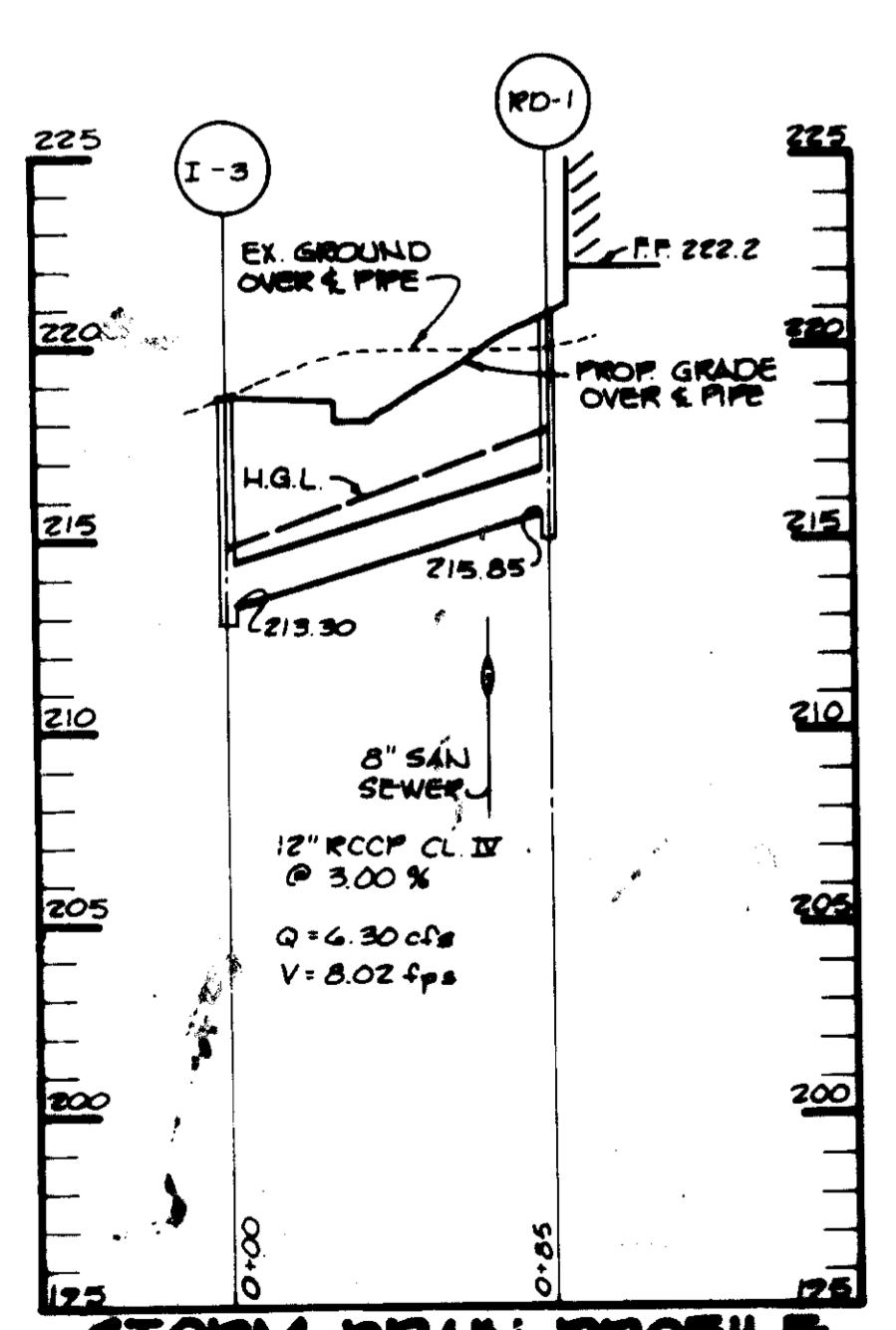
**WATER PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



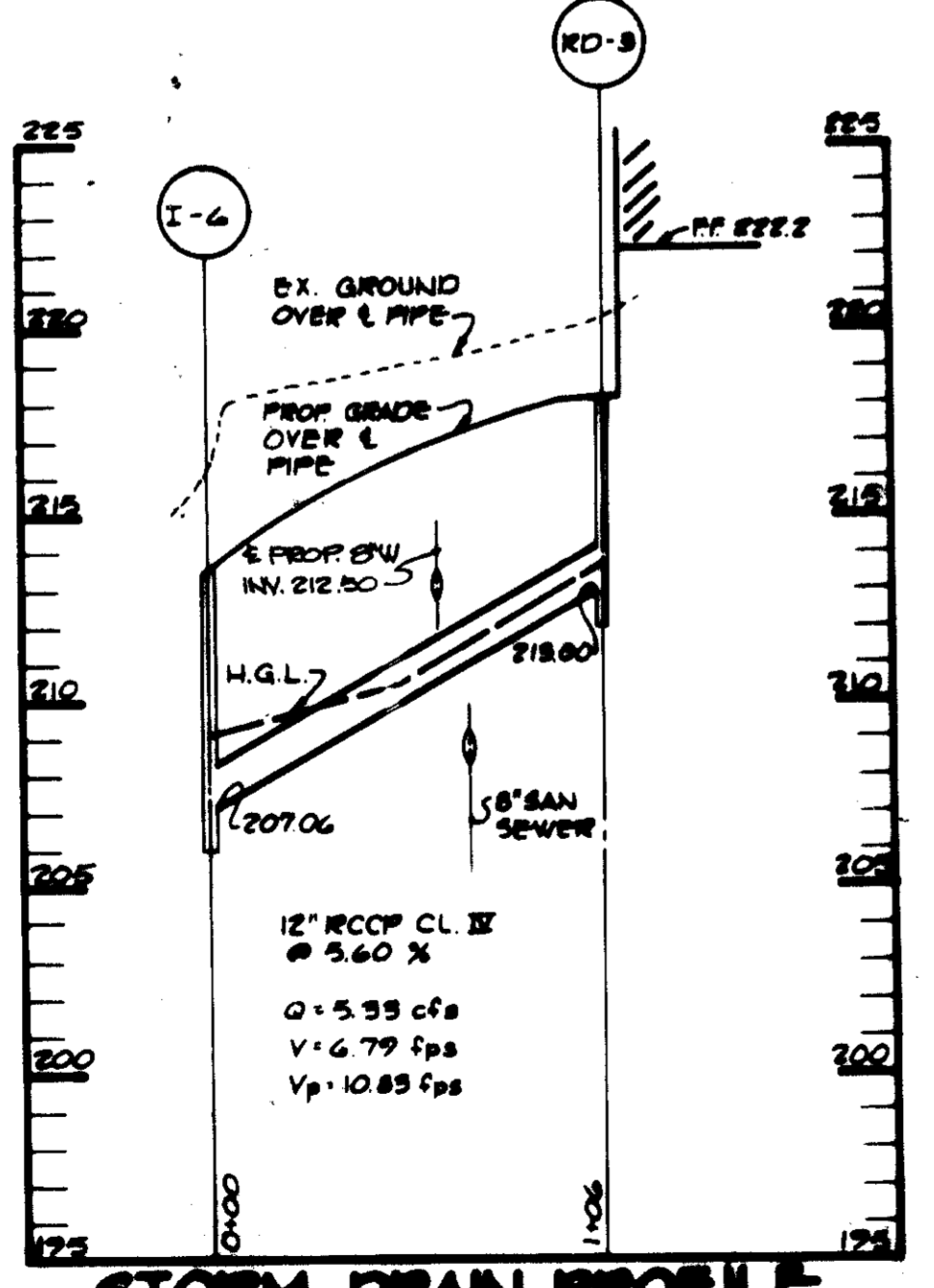
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



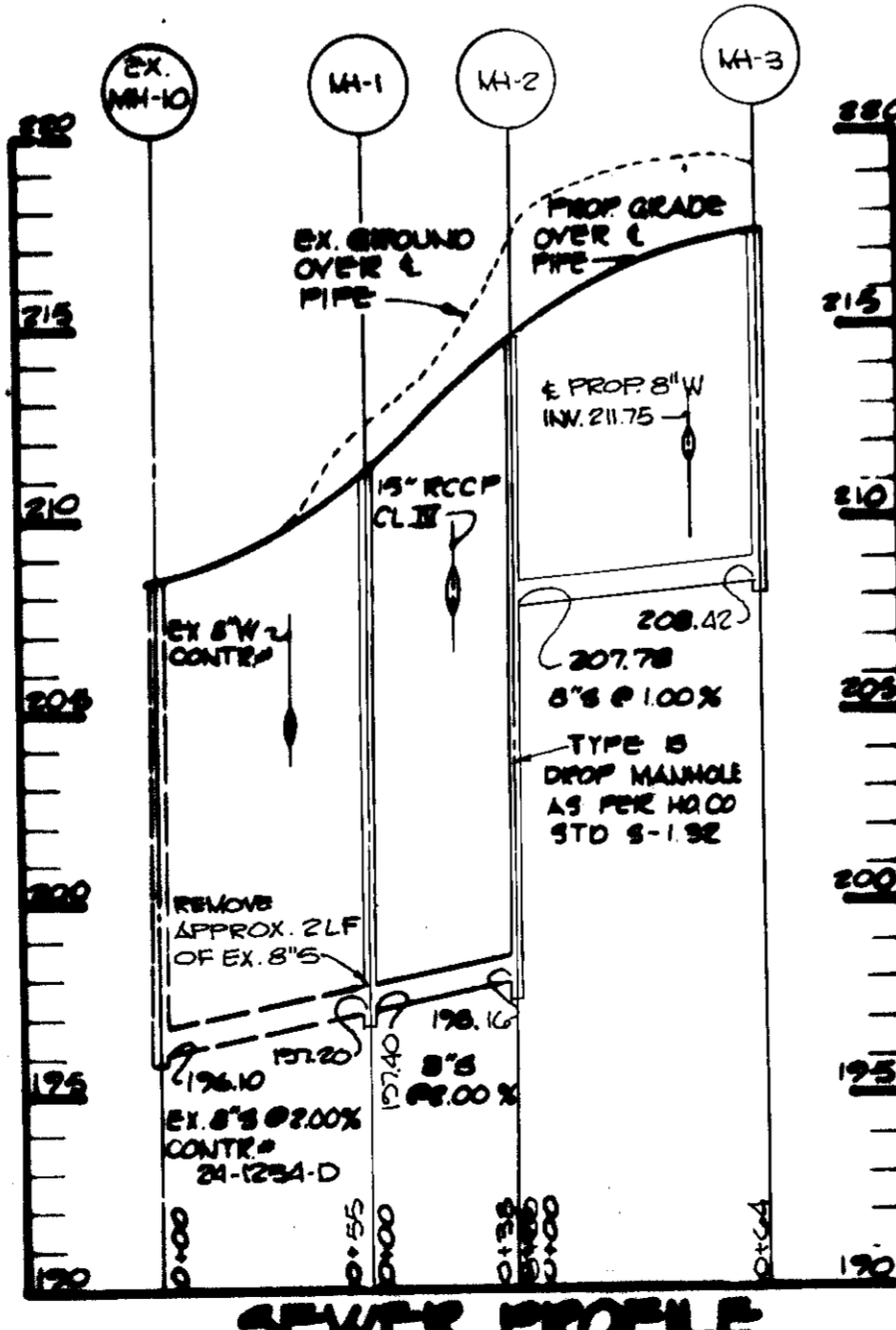
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



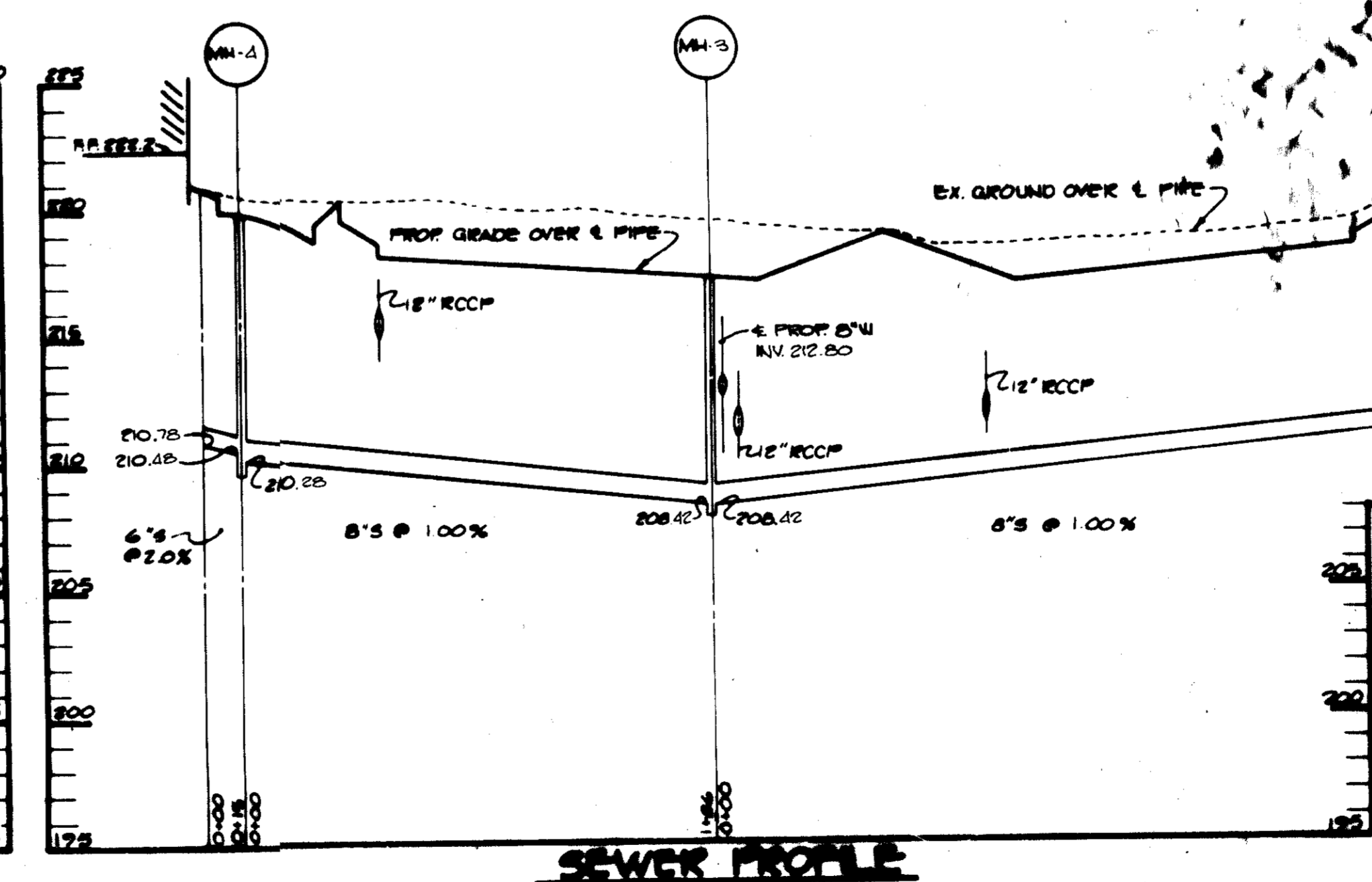
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



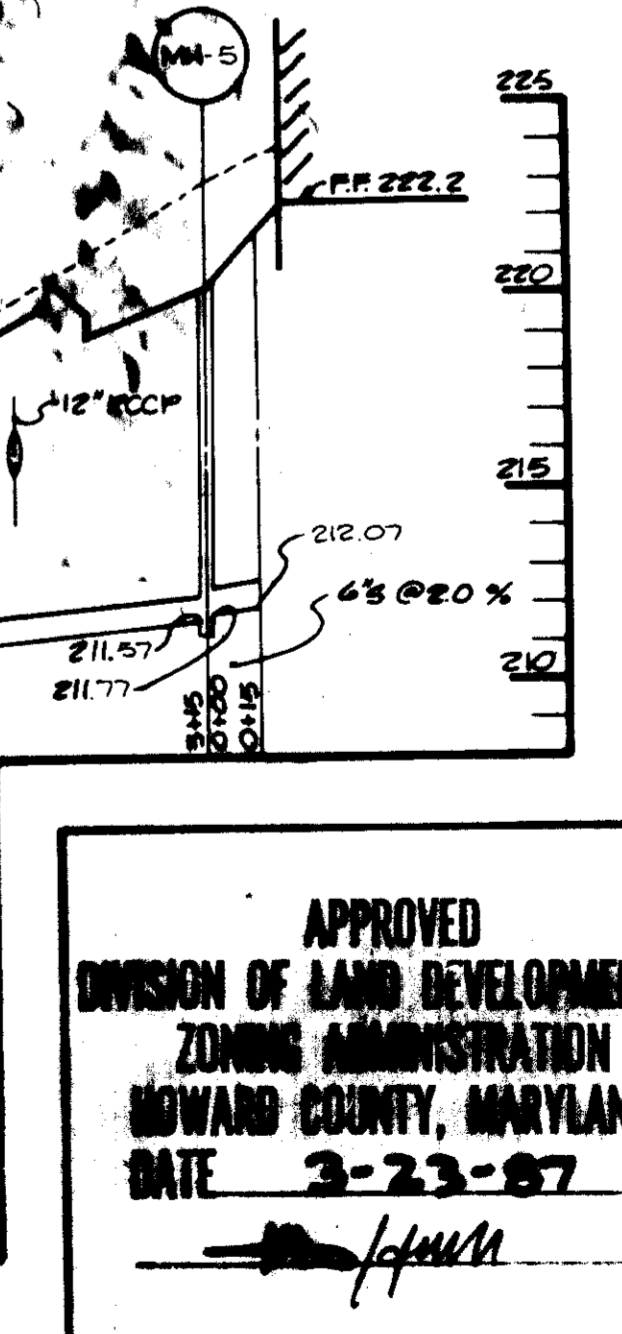
**STORM DRAIN PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



**SEWER PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



**SEWER PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'



**SEWER PROFILE**  
SCALE: HOR. 1"=50' VERT. 1"=5'

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

*John E. Muegge* 5-27-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*Sharon A. Arvey* 6-3-87  
PLANNING DIRECTOR DATE

*Arthur E. Muegge* 6-2-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John E. Muegge* 5-26-87  
DIRECTOR DATE

*Walter W. E.* 5-26-87  
CHIEF, BUREAU OF ENGINEERING DATE

5-12-87	2	REVISED WATER PROFILE
5-12-87	1	REVISED SEWER PROFILE
DATE	NO.	REVISION
		OWNER: C-8 LIMITED PARTNERSHIP SUITE 101 8850 BRISTOL COURT JESSUP, MARYLAND 20794
		DEVELOPER: GENIA CORPORATION SUITE 101 8850 BRISTOL COURT JESSUP, MARYLAND 20794
		PROJECT: CORRIDOR NORTH PARCEL C-8
		AREA TAX MAP 48 CORRIDOR NORTH 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		TITLE: PROFILES

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-23-87

*John E. Muegge*

THE RIEMER GROUP, INC.  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-8980

2-20-87  
DATE

DESIGNED BY: J.K.B.  
DRAWN BY: R.E.A.  
PROJECT NO: 36000  
DATE: 2-20-87  
SCALE: AS SHOWN  
DRAWING NO. 3 OF 7



STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP OF CURB ELEV. OR RIM ELEVATION	REMARKS
1-1	A-5 w/detl.	See Plan	207.23	207.03	214.88	Ho.Co.Std. SD-4.01 & SD-4.02
1-2	S-Comb w/rec.grate	See Plan	210.55	210.35	214.96	Ho.Co.Std. SD-4.32 & SD-4.93
1-3	S-Comb w/rec.grate	See Plan	213.30	212.85	218.56	Ho.Co.Std. SD-4.32 & SD-4.93
1-4	No.Co. Yard Inlet	See Plan	217.40	217.20	221.20*	Ho.Co.Std. SD-4.14
1-5	"K" Inlet	See Plan	-	233.40	241.20*	Ho.Co.Std. SD-4.12
1-6	A-5 w/detl.	See Plan	209.06	206.61	213.98	Ho.Co.Std. SD-4.01 & SD-4.83
1-7	S-Comb w/rec.grate	See Plan	210.07	209.87	214.98	Ho.Co.Std. SD-4.32 & SD-4.93
1-8	S-Comb w/rec.grate	See Plan	212.00	211.55	216.66	Ho.Co.Std. SD-4.32 & SD-4.93
1-9	No.Co. Yard Inlet	See Plan	-	217.43	221.00*	Ho.Co.Std. SD-4.14
1-10	NSMA Yard Inlet	See Plan	223.79	223.55	227.00*	NSMA STD. MD-381.01
1-11	NSMA Yard Inlet	See Plan	-	224.90	227.00*	NSMA STD. MD-381.01

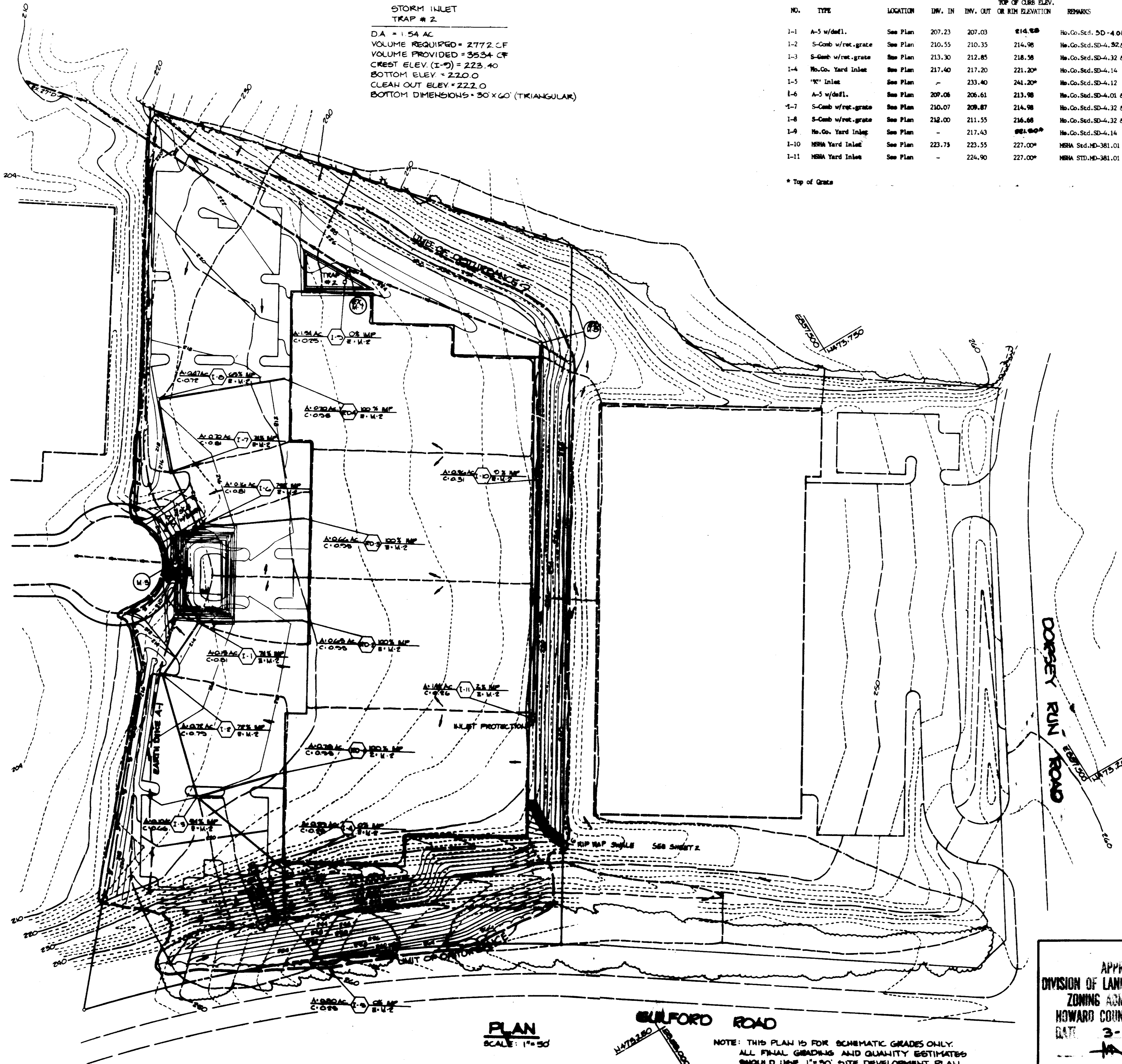
\* Top of Grate

STORM INLET TRAP # 2  
 DA = 1.54 AC  
 VOLUME REQUIRED = 2772 CF  
 VOLUME PROVIDED = 3534 CF  
 CREST ELEV. (I-0) = 223.40  
 BOTTOM ELEV. = 222.0  
 CLEAN OUT ELEV. = 222.0  
 BOTTOM DIMENSIONS = 30' X 60' (TRIANGULAR)

NOTE: CONTOURS SHOWN AROUND TRAPS ARE TEMPORARY.

RIP RAP OUTLET TRAP #1

DA = 0.52 AC  
 VOLUME REQUIRED = 17,136 CF  
 VOLUME PROVIDED = 17,466 CF  
 CREST ELEV. = 210.0  
 BOTTOM ELEV. = 203.0  
 CLEAN OUT ELEV. = 207.0  
 LENGTH OF WEIR (b) = 12.0'  
 DEPTH OF CHANNEL (A) = 2.0'  
 BOTTOM DIMENSIONS = 45' X 35'



PLAN SCALE: 1" = 30'

SULFORD ROAD

NOTE: THIS PLAN IS FOR SCHEMATIC GRADES ONLY. ALL FINAL GRADING AND QUANTITY ESTIMATES SHOULD USE 1" = 30' SITE DEVELOPMENT PLAN SHEET 2.

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 3-23-87

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 Richard C. Joseph, P.E. & Assoc. Corp.  
 DEVELOPER  
 May 12, 1987 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]  
 ENGINEER  
 DATE

REVIEWED FOR: HOWARD S.C.D.  
 NAME: HOWARD  
 AND MEETS TECHNICAL REQUIREMENTS  
 [Signature]  
 U.S. SOIL CONSERVATION SERVICE  
 DATE: 5-22-87

"THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 [Signature]  
 HOWARD S.C.D.  
 DATE: 5/22/87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 [Signature]  
 COUNTY HEALTH OFFICER  
 DATE: 5-27-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 [Signature]  
 PLANNING DIRECTOR  
 DATE: 6-3-87

[Signature]  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 DATE: 6-2-87

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature]  
 DIRECTOR  
 DATE  
 [Signature]  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 6-2-87

REVISION WITH CENTRAL ENTRANCE  
 DATE NO. REVISION

OWNER: C-B LIMITED PARTNERSHIP SUITE 101 8350 BRISTOL COURT JESSUP, MARYLAND 20794

DEVELOPER: SENIA CORPORATION SUITE 101 8350 BRISTOL COURT JESSUP, MARYLAND 20794

PROJECT: CORRIDOR NORTH PARCEL C-B

AREA: CORRIDOR NORTH PARCEL C-B TAX MAP NO. 88 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3100 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2680

2-20-87 DATE

DESIGNED BY: JKB

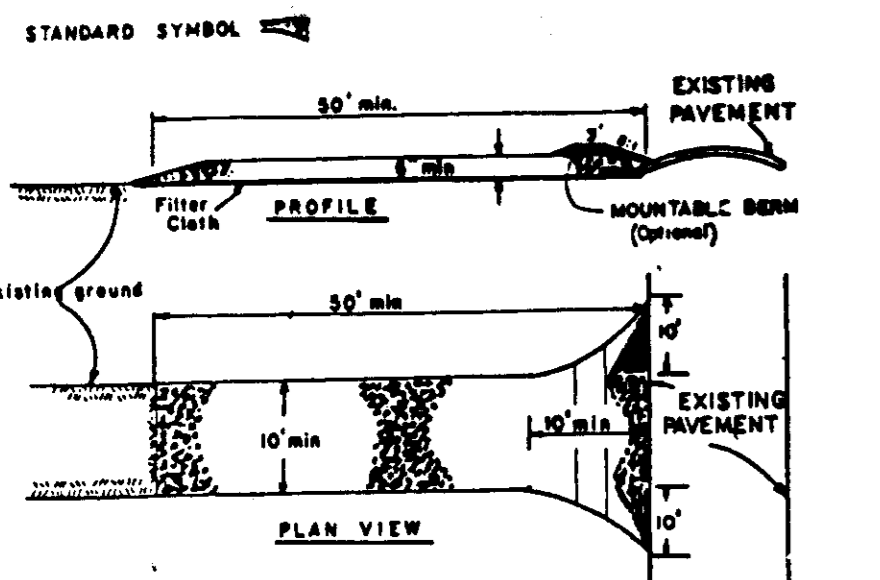
DRAWN BY: MAD

PROJECT NO: 36000

DATE: 2-20-87

SCALE: 1" = 50'

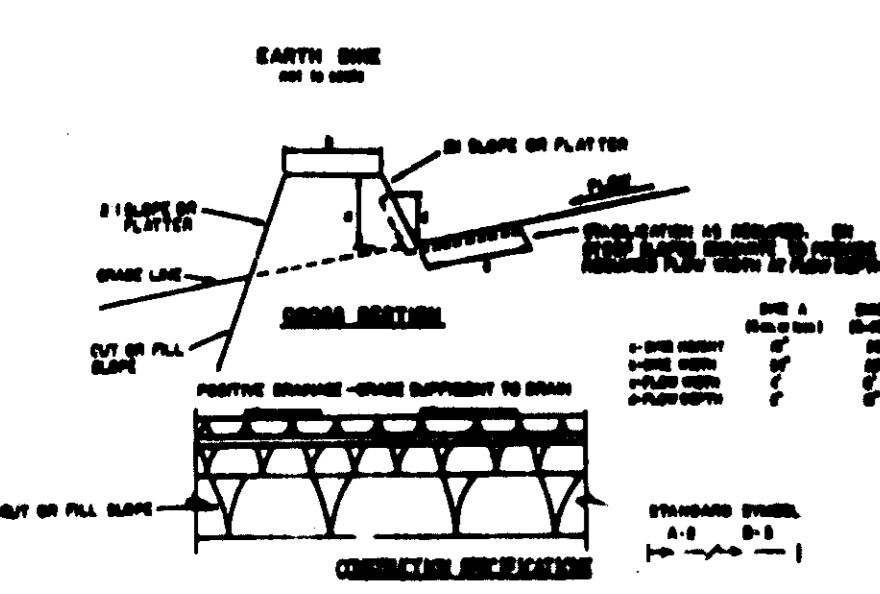
DRAWING NO. 5 OF 7



**CONSTRUCTION SPECIFICATION**

- Stom size - Use 2" stone, or crushed or recycled concrete equivalent.
- Length - As required, but not less than 30 feet (except on a single residence lot where a 10 foot minimum length would apply).
- Thickness - Not less than 18" (18" thickness).
- Width - 24" (18" for driveway, but not less than the full width at points where ingress or egress occurs).
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
- Surface water - All surface water flowing or directed toward entrance structures shall be piped across the entrance. If piping is impractical, a mounded berm with 1:1 slope will be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be washed to remove sediment prior to entrance onto public rights-of-way, when washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

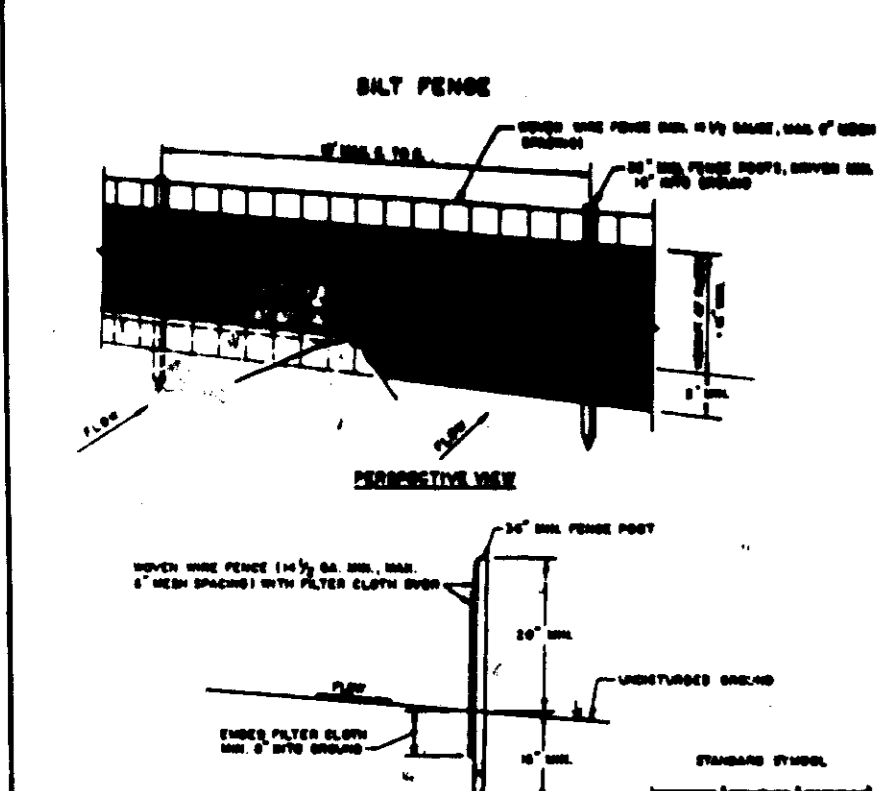
**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



**CONSTRUCTION SPECIFICATION**

- The dike shall be constructed of compacted earth.
- The dike shall be 18" high and 12" wide at the top.
- The dike shall be 12" wide at the base.
- The dike shall be 12" wide at the top.
- The dike shall be 12" wide at the base.
- The dike shall be 12" wide at the top.
- The dike shall be 12" wide at the base.

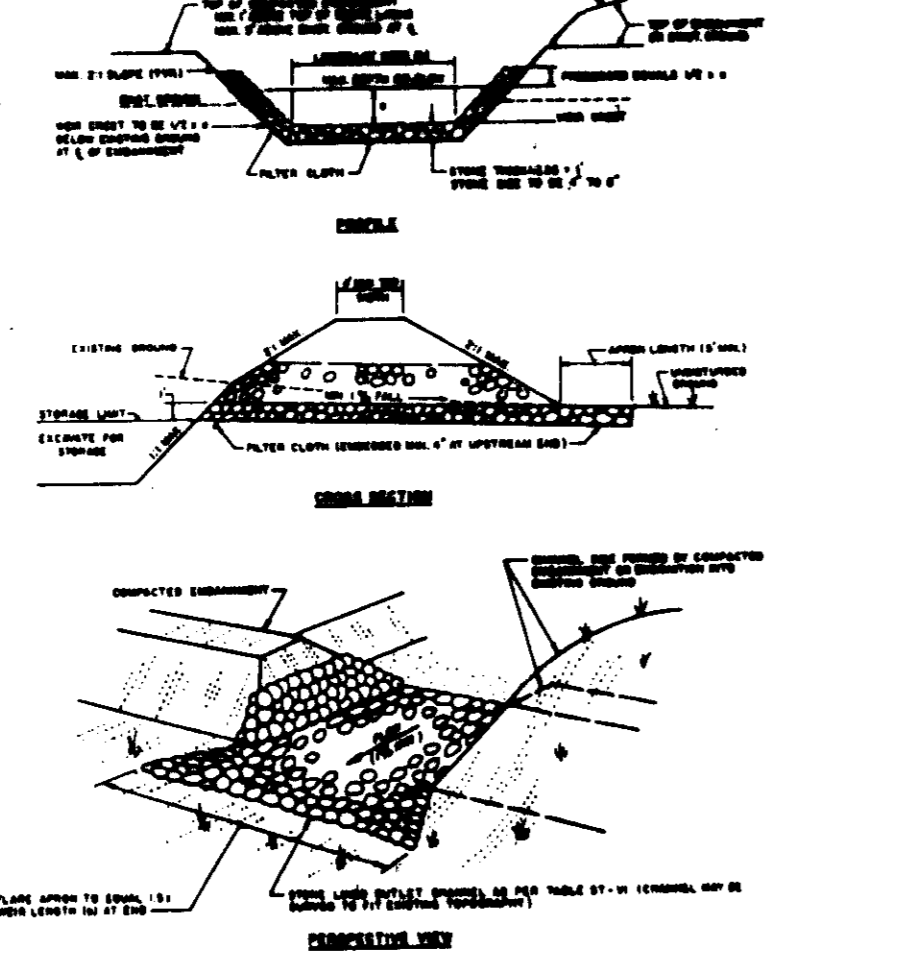
**EARTH DIKE**  
NO SCALE



**CONSTRUCTION SPECIFICATION**

- When used to be installed, it shall be installed in accordance with the following specifications:
- Filter cloth to be placed over the entire area prior to placing of stone.
- Surface water to be piped across the entrance.
- Washing to be provided at the entrance.
- Periodic inspection and needed maintenance shall be provided after each rain.

**SILT FENCE**  
NO SCALE



**PERMANENT SEEDING NOTES**

- The area under construction shall be cleared, graded and covered with vegetation and rock mulch. The seed area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, gravel, or other objectionable material. The embankment shall be constructed of uniform material to a height of 3 feet, measured at the top of the embankment.
- All fill slopes shall be 1:1 or flatter; on slopes 1:1 or flatter.
- Slopes of the top of any dike or embankment shall be 1:1 or flatter.
- Storage area provided shall be designed by computing the volume available behind the dike and set up to an elevation of 18" (18" below the lowest water course).
- Filter cloth shall be placed over the bottom and sides of the embankment and shall be secured to the embankment by staking or other means. The filter cloth shall be 18" wide and shall be placed over the entire area of the embankment. The filter cloth shall be secured to the embankment by staking or other means.
- Stone used in the rip rap shall be free of roots or other woody vegetation as well as over-sized stones, rocks, gravel, or other objectionable material. The rip rap shall be constructed of uniform material to a height of 3 feet, measured at the top of the rip rap.
- Sediment shall be removed and the trap returned to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The volume of sediment storage shall be 1000 cubic feet per acre of construction drainage area.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and the area stabilized when the construction drainage area has been properly stabilized.
- All wet slopes shall be 1:1 or flatter.
- Minimum Drainage Area: 3 Acres

**RIP RAP OUTLET SEDIMENT TRAP**  
NO SCALE

**SEEDING CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 Maryland Standards and Specifications for SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter. In accordance with Vol. 1, Chapter 17, of the HOWARD COUNTY DESIGN MANUAL, Storm Drains.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (for permanent seedings (Sec. 33) and (Sec. 34), temporary seedings (Sec. 30) and mulching (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended seedings do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:  
Total Area of Site: 2.1 acres  
Area Disturbed: 1.8 acres  
Area to be seeded or paved: 1.8 acres  
Area to be vegetatively stabilized: 0.3 acres  
Total Cost: \$40,000.00
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

**TEMPORARY SEEDING NOTES**

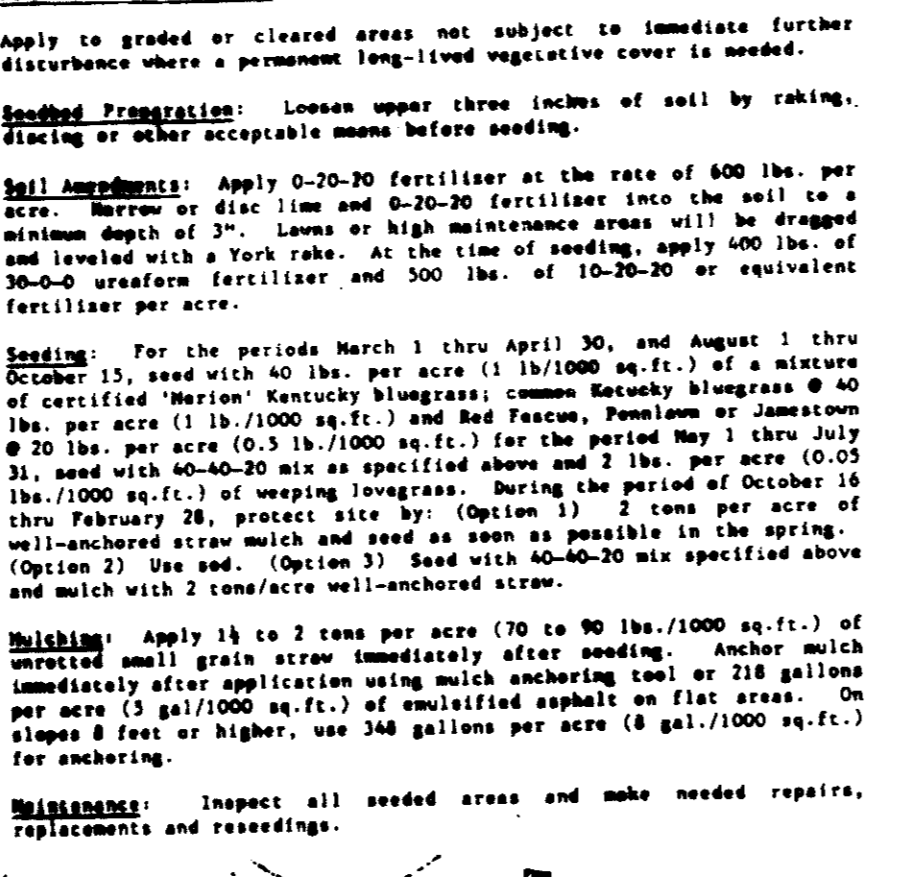
Apply to graded or cleared areas likely to be reseeded where a short-term vegetative cover is needed.

**Seeding Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) where soil is highly acidic; apply deltamethrin limonene at the rate of 1/2 can per acre.

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (3.2 lbs./1000 sq.ft.); for the period May 1 thru August 14, seed with 2 lbs. per acre of creeping lovegrass (.07 lbs./1000 sq.ft.); for the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use seed.

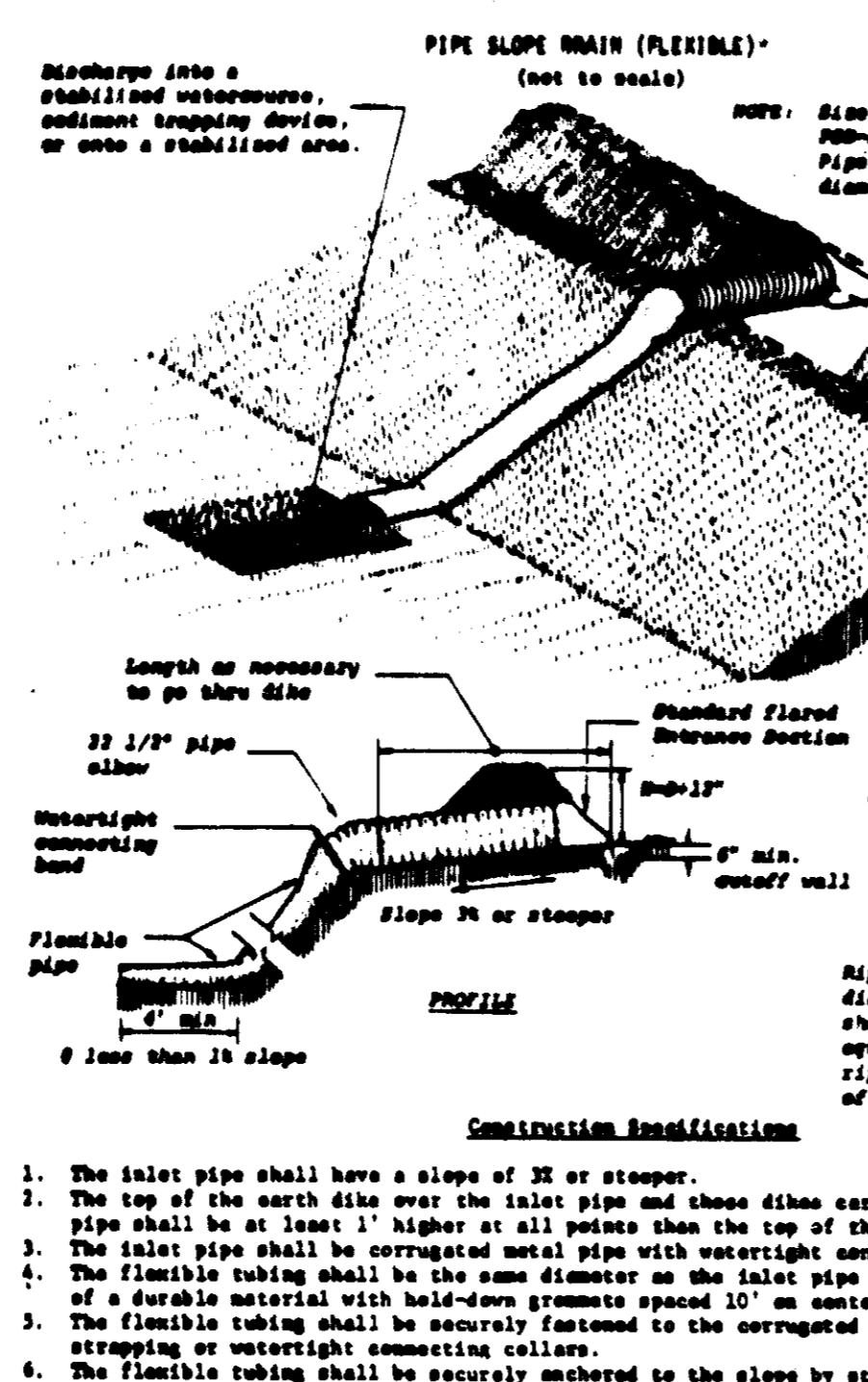
**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of mulched small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq.ft.) of emulsified asphalt on flat areas; on slopes 4 ft. or higher, use 348 gal. per acre (8 gal./1000 sq.ft.) for anchoring.



**PERMANENT SEEDING NOTES**

- Sediment shall be removed and the trap returned to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The volume of sediment storage shall be 1000 cubic feet per acre of construction drainage area.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and the area stabilized when the construction drainage area has been properly stabilized.
- All wet slopes shall be 1:1 or flatter.
- Minimum Drainage Area: 3 Acres

**STORM INLET SEDIMENT TRAP**  
NO SCALE



**GRADE STABILIZATION STRUCTURE**  
NO SCALE

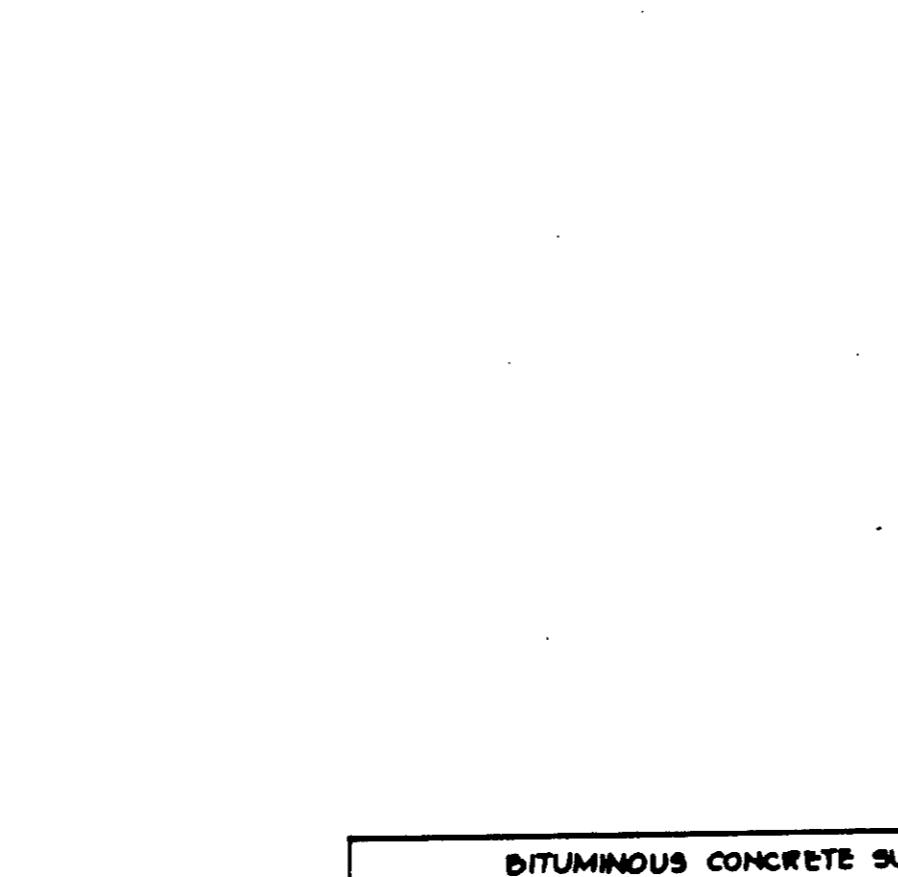
Apply to graded or cleared areas likely to be reseeded where a short-term vegetative cover is needed.

**Seeding Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

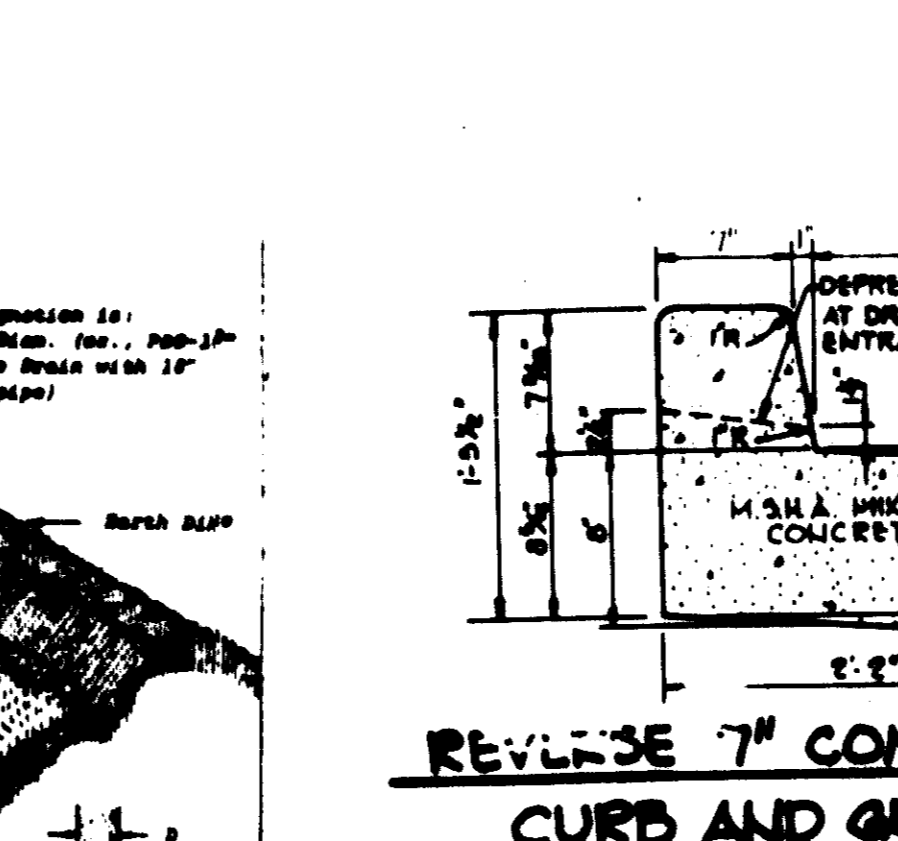
**Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) where soil is highly acidic; apply deltamethrin limonene at the rate of 1/2 can per acre.

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (3.2 lbs./1000 sq.ft.); for the period May 1 thru August 14, seed with 2 lbs. per acre of creeping lovegrass (.07 lbs./1000 sq.ft.); for the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use seed.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of mulched small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq.ft.) of emulsified asphalt on flat areas; on slopes 4 ft. or higher, use 348 gal. per acre (8 gal./1000 sq.ft.) for anchoring.



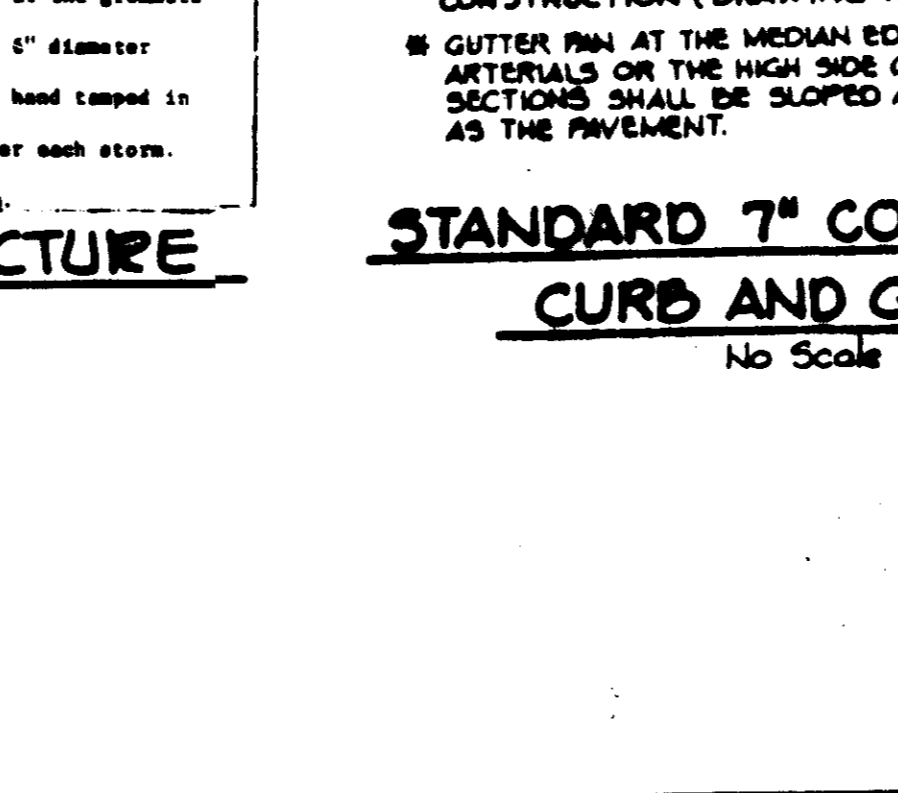
**BITUMINOUS CONCRETE SURFACE**  
BITUMINOUS CONCRETE BASE  
6" CRUSHER RUN BASE COURSE  
OR  
4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE  
(ALTERNATE)  
BITUMINOUS CONCRETE SURFACE  
BITUMINOUS CONCRETE BASE  
BITUMINOUS CONCRETE SURFACE  
BITUMINOUS CONCRETE BASE  
(8" PAVING, P-5)



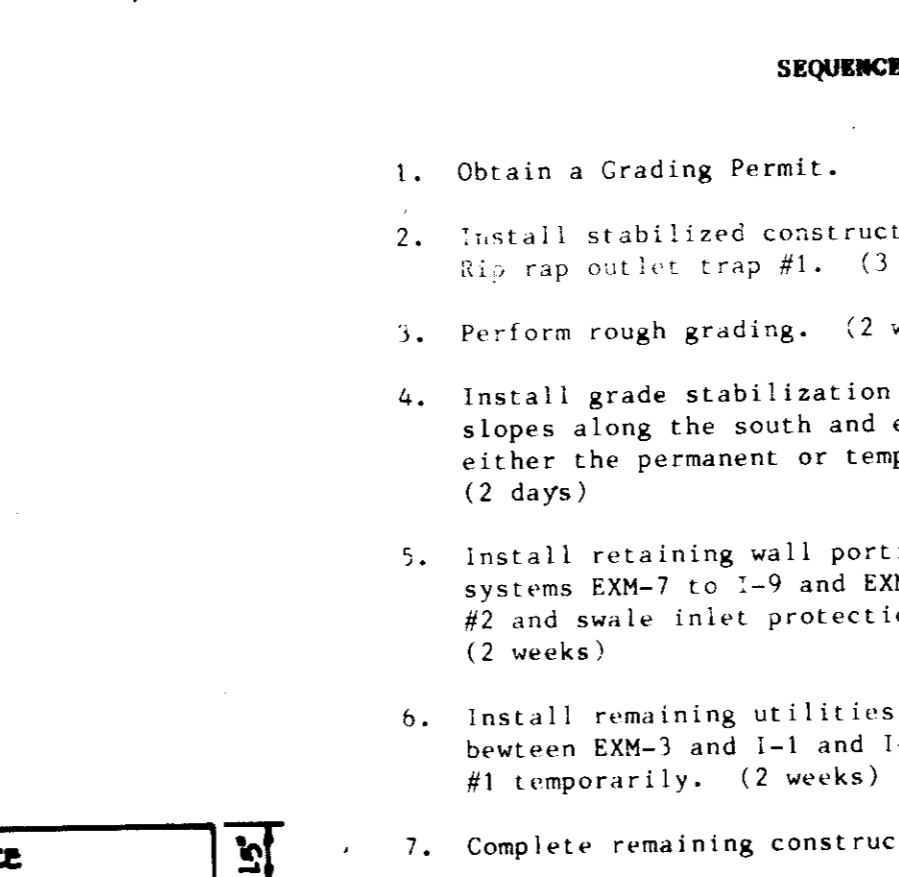
**REVERSE 7" COMBINATION CURB AND GUTTER**  
NO SCALE

HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-801)

GUTTER FIN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

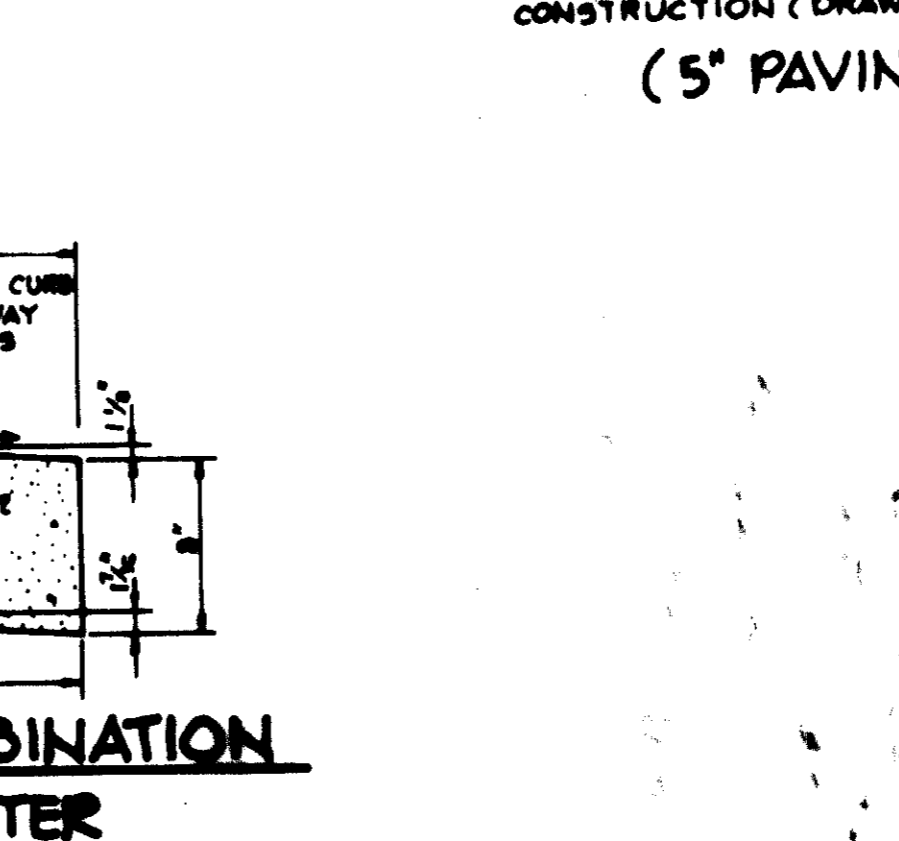


**STANDARD 7" COMBINATION CURB AND GUTTER**  
NO SCALE



**SEQUENCE OF CONSTRUCTION**

- Obtain a Grading Permit.
- Install stabilized construction entrance, silt fence, earth dike and Rip rap outlet trap #1. (3 days)
- Perform rough grading. (2 weeks)
- Install grade stabilization structure, Rip rap swale and stabilize slopes along the south and east property lines in accordance with either the permanent or temporary seeding notes immediately. (2 days)
- Install retaining wall portion of building and the storm drains systems EXM-7 to 1-9 and EXM-8 to 1-11 then install storm inlet trap #2 and swale inlet protection for 1-10 and 1-11. (2 weeks)
- Install remaining utilities except for storm drain connection between EXM-3 and 1-1 and 1-6 where pipe shall be directed into Trap #1 temporarily. (2 weeks)
- Complete remaining construction activities. (10 weeks)
- Stabilize all disturbed area in accordance with the permanent seeding notes. (3 days)
- Upon permission of the Sediment Control Inspector, complete storm drain connections and remove all sediment controls stabilize all areas disturbed in their removal in accordance with the permanent seeding notes. (3 days)



**BITUMINOUS CONCRETE SURFACE**  
BITUMINOUS CONCRETE BASE  
6" CRUSHER RUN BASE COURSE  
OR  
4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE  
(ALTERNATE)  
BITUMINOUS CONCRETE SURFACE  
BITUMINOUS CONCRETE BASE  
(5" PAVING, P-1)

HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Checklist: *Arthur Mueggli, G.E.* May 12, 1987  
DEVELOPER: C-B Limited Partnership

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR POND 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 AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*Arthur Mueggli* 5/23/87  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR ~~SOIL CONSERVATION DISTRICT~~, SOIL EROSION AND SEDIMENT CONTROL.

*James M. Nela* 5-22-87  
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR ~~SMALL POND CONSTRUCTION~~, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Sheldon S. Rubin* 5/22/87  
APPROVED HOWARD S.C.D. DATE

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

*John M. Boyle, Jr.* 5-27-87  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*Thomas J. Harms* 6-3-87  
PLANNING DIRECTOR DATE

*John M. Nela* 6-2-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John M. Nela* 5-26-87  
DIRECTOR DATE

*John M. Nela* 5/26/87  
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER: C-B LIMITED PARTNERSHIP  
SUITE 101  
8850 BRISTOL COURT  
JESSUP, MARYLAND 20794

DEVELOPER: SIENA CORPORATION  
SUITE 101  
8850 BRISTOL COURT  
JESSUP, MARYLAND 20794

PROJECT: CORRIDOR NORTH  
PARCEL C-B

AREA: CORRIDOR NORTH  
TAX MAP NO. 48  
G-1 SECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: NOTES AND DETAILS

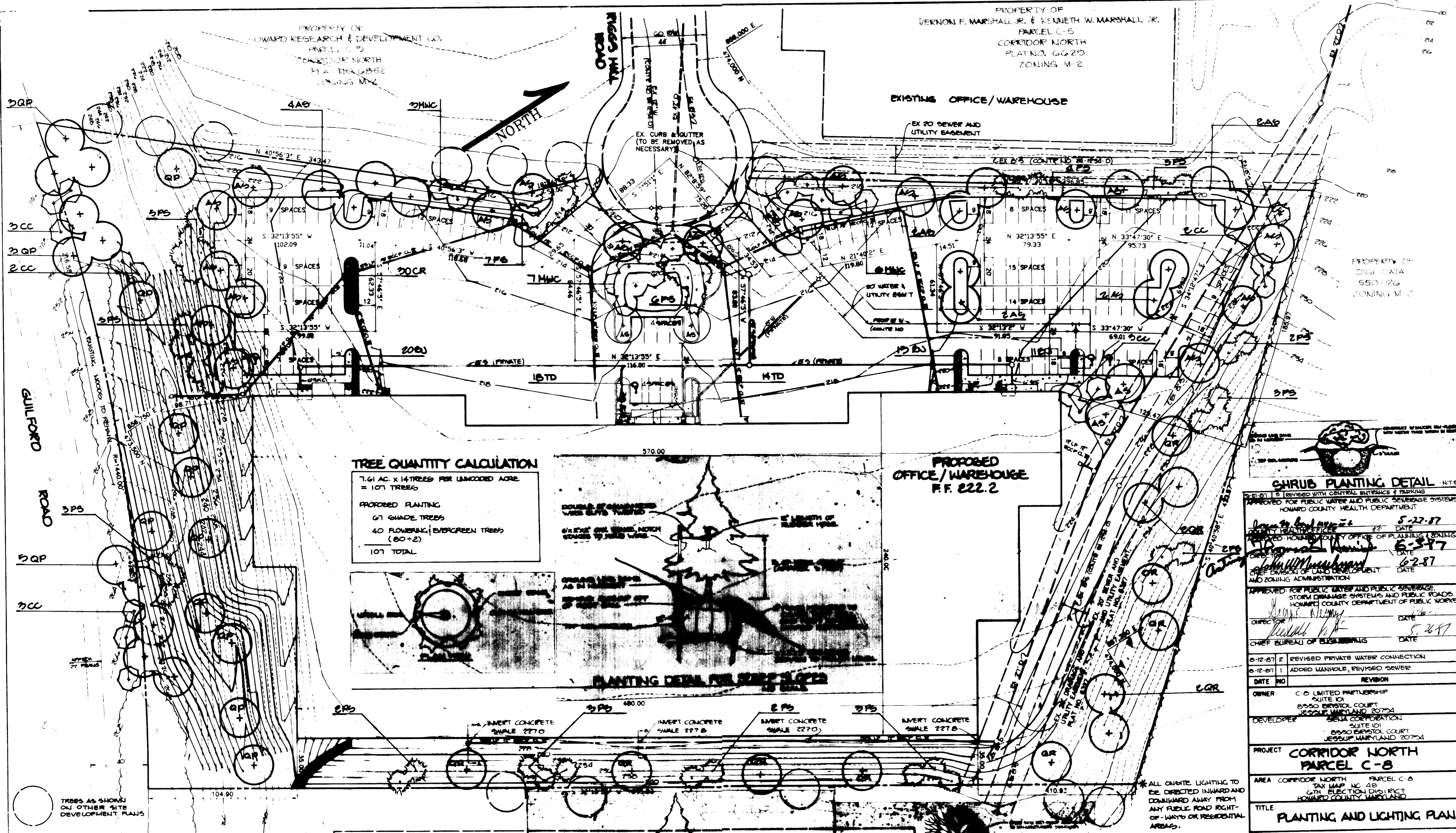
THE RIEMER GROUP, INC  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2680

2-20-87 DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-23-87

*Arthur Mueggli*

DESIGNED BY J.K.B.  
DRAWN BY C.J.R.  
PROJECT NO 36000  
DATE 2-20-87  
SCALE AS SHOWN  
DRAWING NO. 4 OF 7

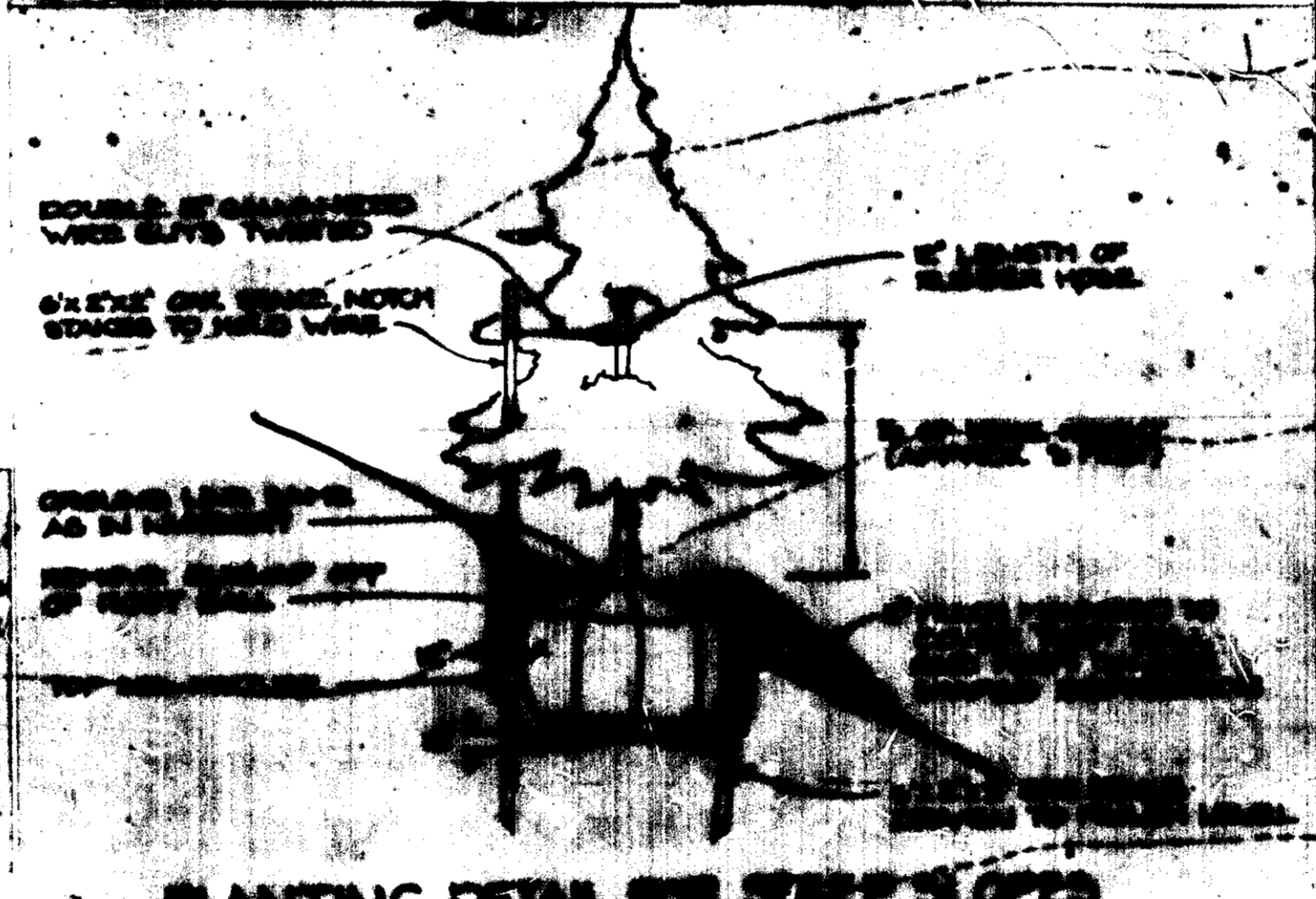
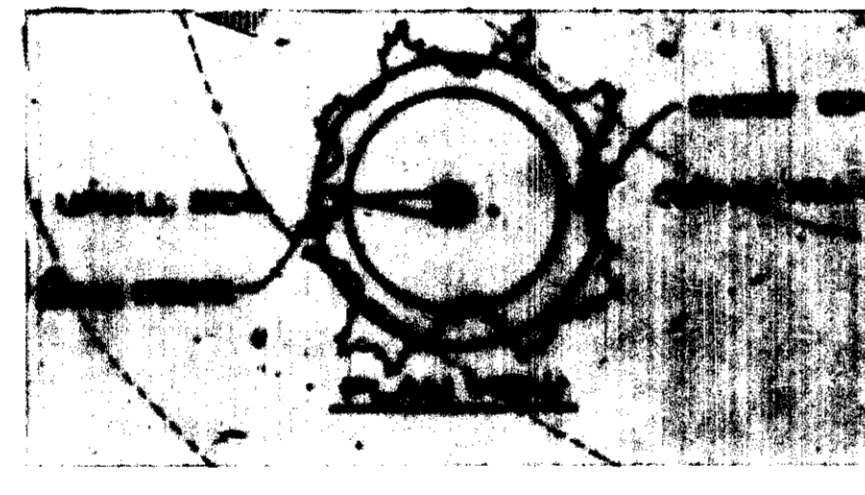


**TREE QUANTITY CALCULATION**

7.61 AC. x 14 TREES PER UNWOODED ACRE  
= 107 TREES

**PROPOSED PLANTING**

67 SHADE TREES  
40 FLOWERING/EVERGREEN TREES (50+2)  
107 TOTAL

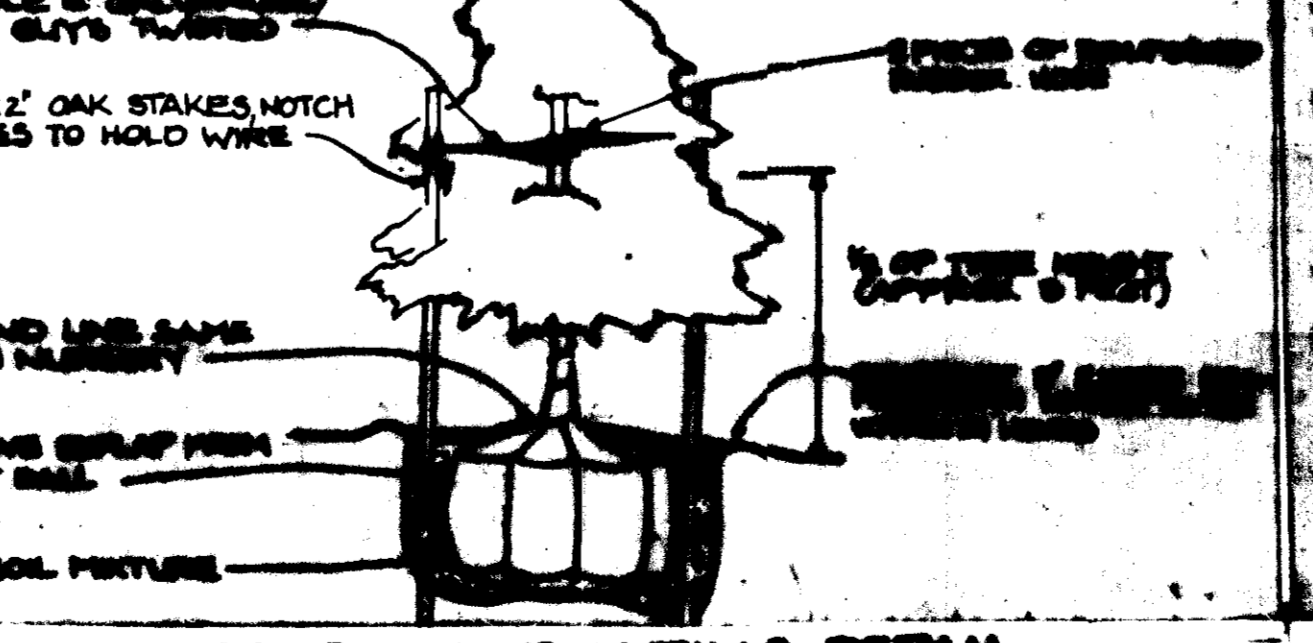


**PROPOSED OFFICE/WAREHOUSE**  
F.F. 222.2

**PLANT LIST**

Qty	Symbol	Name	Size	Remarks
54	AS	ASR SACCHARIN Sugar Maple	2 1/2" Cal., 12'-14" ht.	BA, Full Head
21	QP	QUERCUS PALMSTRIS Pin Oak	2 1/2" Cal., 12'-14" ht.	BA, Full Head
15	QR	QUERCUS RUBRA	2 1/2" Cal., 12'-14" ht.	BA, Full Head
14	CC	CERIS CANADENSIS Red Bud	2 1/2" Cal., 8'-10" ht.	
10	MC	MALUS 'WHITE CASCADE CRAB' White Cascade Crab	2 1/2" Cal., 8'-10" ht.	

Quantity	Symbol	Name	Size	Remarks
50	PS	PINE STROBUS Eastern White Pine	2 1/2" Cal., 6'-8" ht.	BA, Unhead
46	MC	MALUS 'WHITE CASCADE CRAB' White Cascade Crab	2 1/2" Cal., 8'-10" ht.	Quantity
50	CC	CERIS CANADENSIS Red Bud	2 1/2" Cal., 8'-10" ht.	Quantity
52	TB	TAXUS CANADENSIS	2 1/2" Cal., 8'-10" ht.	Quantity



**APPROVED ZONING ADMINISTRATION**  
HOWARD COUNTY, MARYLAND  
DATE: 3-23-87

**SHRUB PLANTING DETAIL** N.T.S.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 5-22-87  
DATE: 6-2-87  
DATE: 6-2-87  
DATE: 5-26-87

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

DATE: 5-26-87

REVISIONS:

0-12-87	2	REVISED PRIVATE WATER CONNECTION
0-12-87	1	ADDED MANHOLE, REVISED SEWER

OWNER: C/O LIMITED PARTNERSHIP  
SUITE 101  
8550 BRISTOL COURT  
JESSUP, MARYLAND 20794

DEVELOPER: SENA CORPORATION  
SUITE 101  
8550 BRISTOL COURT  
JESSUP, MARYLAND 20794

PROJECT: CORRIDOR NORTH  
PARCEL C-8

AREA: CORRIDOR NORTH  
PARCEL C-8  
TAX MAP NO. 45  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **PLANTING AND LIGHTING PLAN**

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
2106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2800

DATE: 2-20-87

DESIGNED BY: MEM  
DRAWN BY: MEM  
PROJECT NO: 36000  
DATE: 2-20-87  
SCALE: 1"=30'  
SHEET NO: 7 OF 7