

SHEET INDEX	
NO.	DESCRIPTION
5-1	TITLE SHEET
5-2	PLAN LINCOLN ST. 0+00 TO 5+30, HOWARD HILLS CR. 0+00 TO 1+25
5-3	PLAN HOWARD HILLS DR. 1+25 TO 8+02, POOL RD. 1+00 TO 4+82.2
5-4	PLAN HOWARD HILLS CR. 8+02 TO 16+50, PERI CR. 8+03 TO 12+43, POOL ROAD 0+00 TO 1+00
5-5	PLAN PERI DRIVE 0+00 TO 8+63
5-6	ROAD PROFILES
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5-8	STORM DRAIN PROFILES
5-9	WATER PROFILES, SITE DETAILS
5-10	SITE DETAILS
5-11	S.W.M. LOTS & DETAILS
5-12	S.W.M. DETAILS
5-13	SEDIMENT CONTROL DETAILS
5-14	SEDIMENT CONTROL PLAN, DRAINAGE AREA MAP
5-15/PL-1	LANDSCAPING PLAN

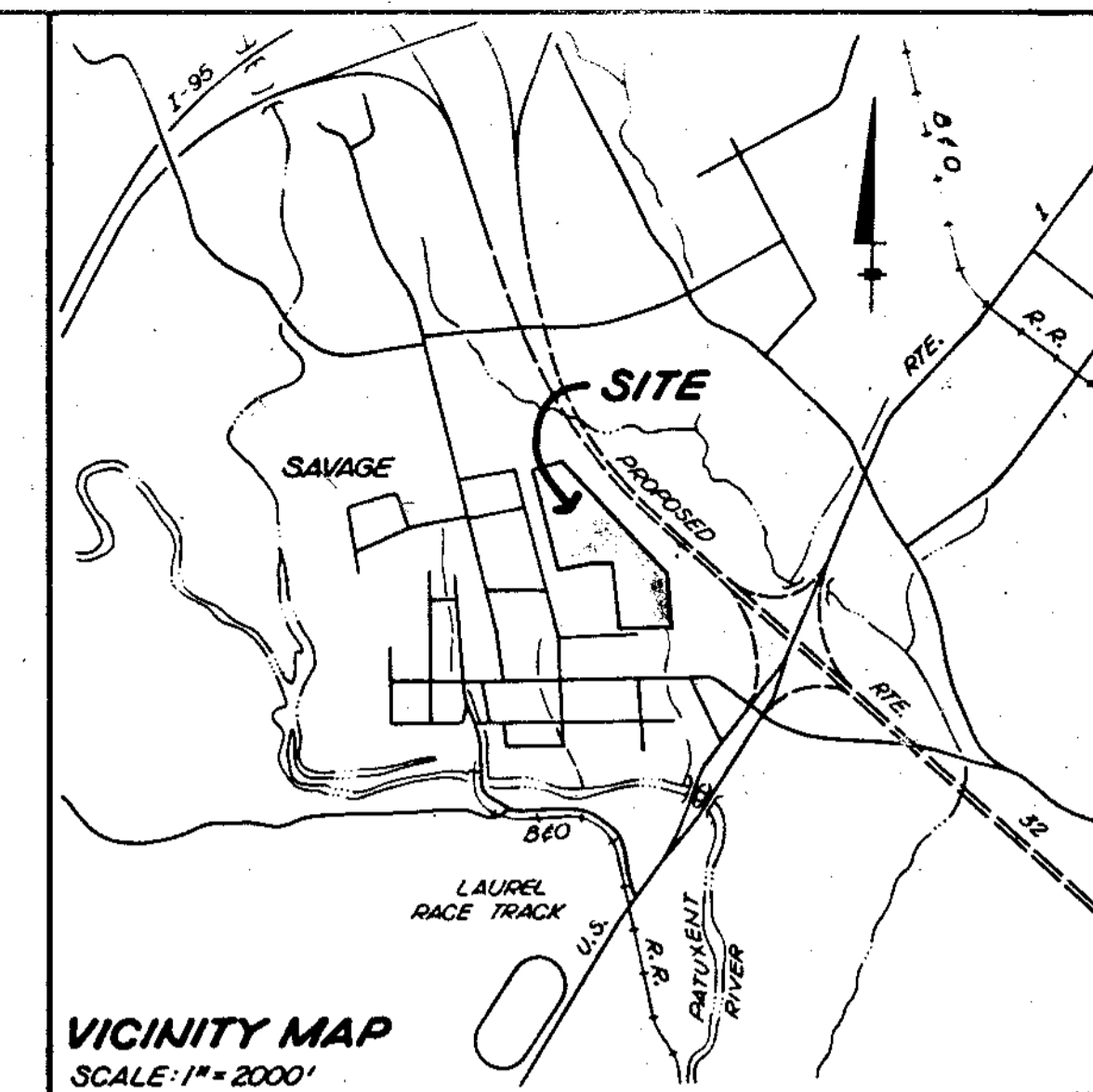
# SITE DEVELOPMENT PLAN

# HOWARD HILLS

## SECTION III PARCELS AB&C

### 6TH ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND



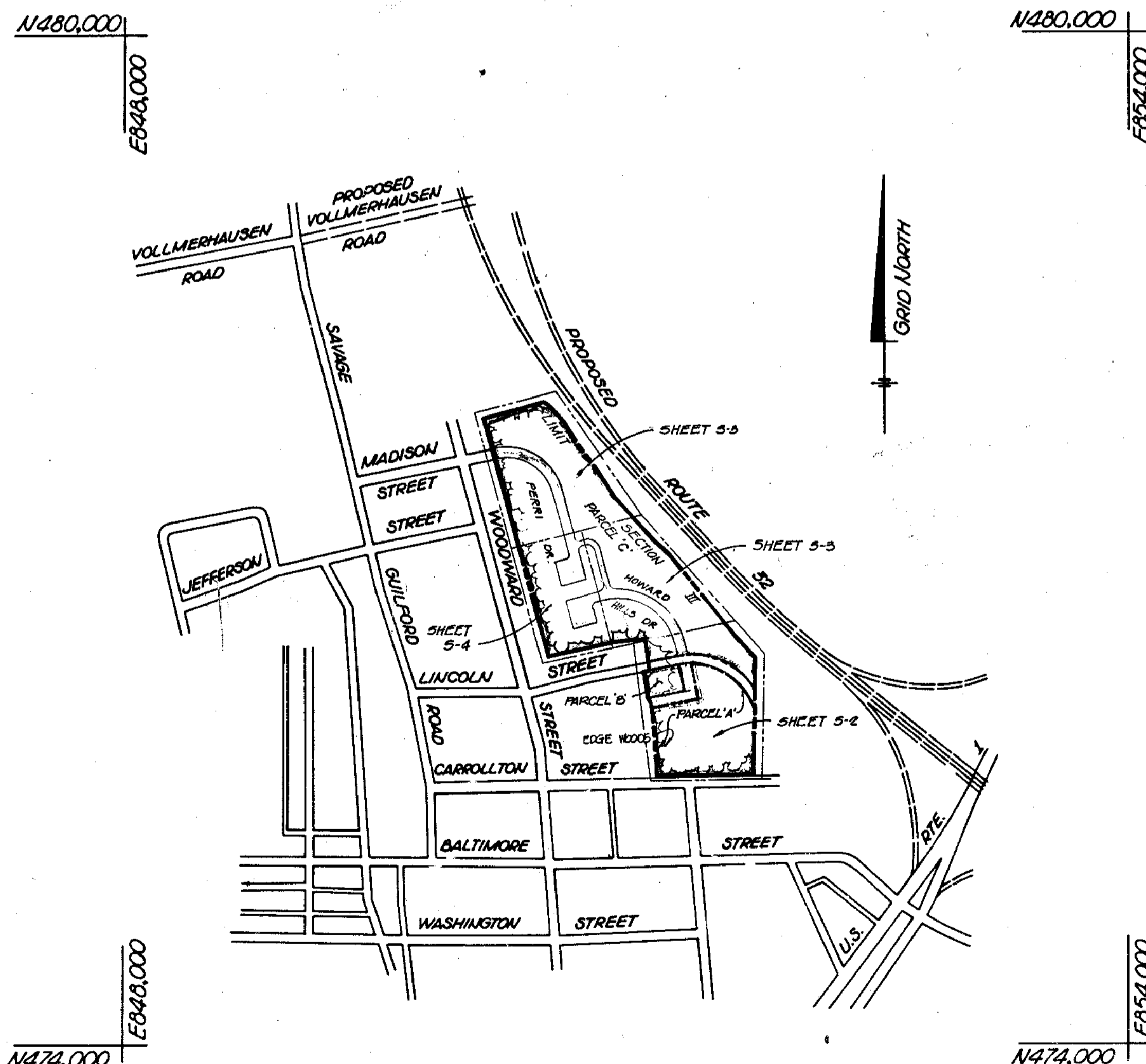
#### GENERAL NOTES

- ALL HORIZONTAL CONTROL SHOWN HEREON IS BASED ON MARYLAND STATE COORDINATES AND ALL VERTICAL CONTROL SHOWN HEREON IS BASED ON USGS DATUM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND THE HOWARD COUNTY ROAD CODE AND LATEST AMENDMENTS THERETO.
- PUBLIC WATER AND SEWER FACILITIES ARE TO BE PROVIDED.
- THE DWELLINGS SHOWN HEREON ARE 2 STORY GROUP DWELLINGS ON CONCRETE SLABS.
- THE MINIMUM SETBACK FROM ALL PUBLIC STREETS SHALL BE 20' UNLESS OTHERWISE APPROVED BY THE HOWARD COUNTY BOARD OF APPEALS.
- ALL FILL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH H.U.D. DATA SHEET 796, CONTROLLED FILL UNDER SUPERVISION OF A REGISTERED SOILS ENGINEER.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWINGS:
 

C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION FIVE (5) DAYS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 992-2418.
- TOPO TAKEN FROM FIELD RUN SURVEY BY TYDINGS-CHEIM & ASSOCIATES, INC.
- SITE DEVELOPMENT PLAN SUBJECT TO VP-82-27 AND VP-82-45.

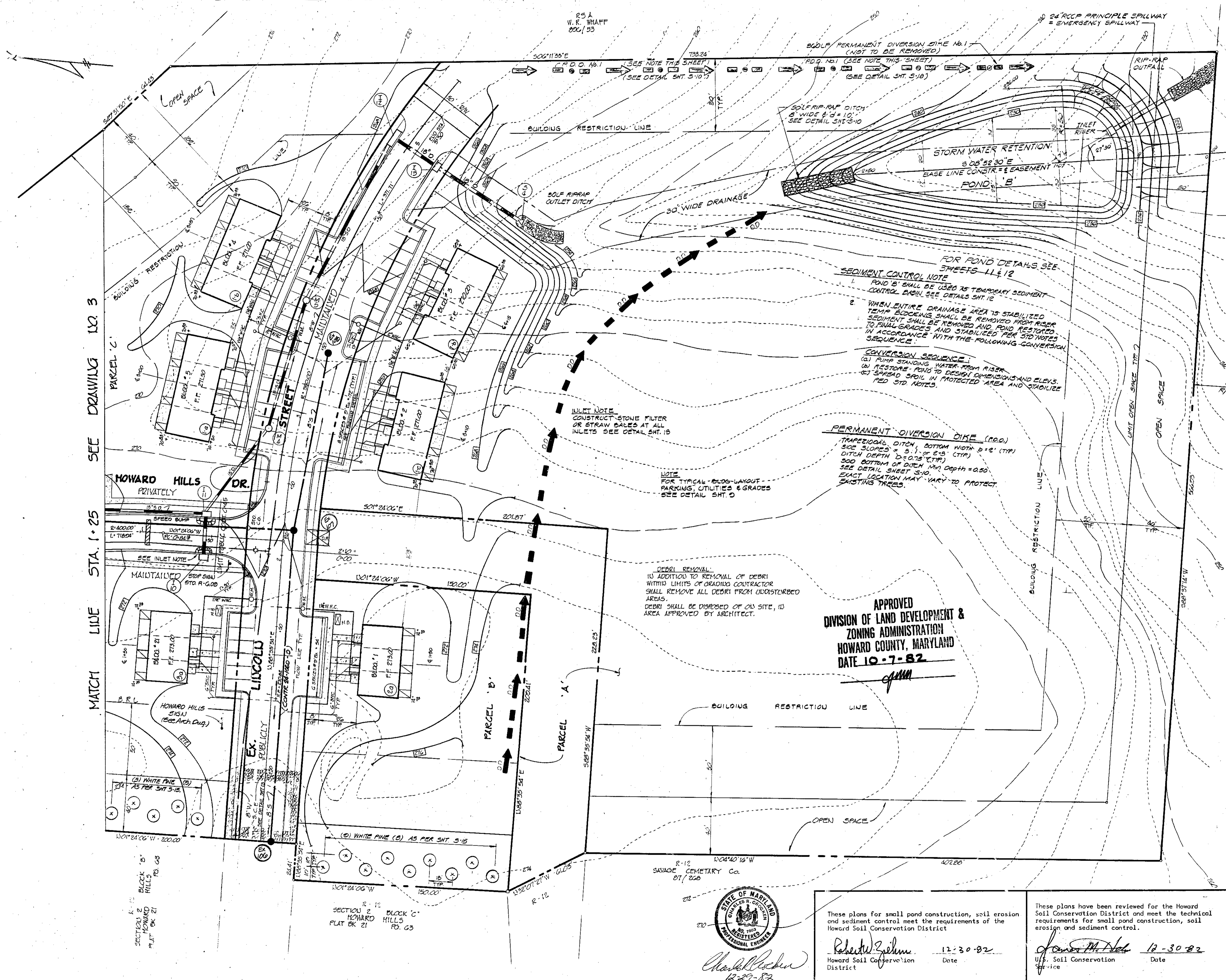
#### SITE TABULATION

ZONING OF PROPERTY: (PER COMPREHENSIVE ZONING PLAN)	RSC
LAND USE TABULATION:	
TOTAL AREA OF PROPERTY	33,581 AC.
AREA OF PUBLIC RIGHT OF WAY	
AREA OF PARCELS	
<b>TOTAL AREA</b>	<b>33,581 AC.</b>
NUMBER OF PARCELS	3
DWELLING UNITS	
NUMBER OF UNITS PERMITTED	134
NUMBER OF UNITS PROPOSED	134
PARKING SPACES	
NUMBER OF SPACES REQUIRED	268
NUMBER OF SPACES PROVIDED	
BEDROOMS PER UNIT	
GROUP 1	3
GROUPS 2 & 3	2
DISTURBED AREA	127 AC.
IMPERVIOUS AREA	445 AC.
AREA TO BE REVEGETATED	325 AC.



**PLAN**  
SCALE: 1" = 600'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>Thomas L. Anny</i> PLANNING DIRECTOR	1-7-83 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>James H. Boyd, M.D.</i> COUNTY HEALTH OFFICER	1-7-83 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Mark F. Neumayr</i> DIRECTOR	1-7-83 DATE
<i>William E. Ray</i> CHIEF, BUREAU OF ENGINEERING	1-7-83 DATE
10-182 2	REVISED PER COUNTY COMMENTS
6-20-82 1	REVISED PER COUNTY COMMENTS
DATE NO.	REVISION DESCRIPTION
RECORDED AS PLAT # 53435344 ON 1/7/83	
DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP OWNER: 6930 BALTIMORE STREET, SAVAGE, MARYLAND 20863	
PROJECT: <b>HOWARD HILLS SECTION III PARCELS A,B,C</b>	
AREA: SAVAGE, MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE: TITLE SHEET	
<b>TYDINGS HEIM ASSOCIATES INC.</b>	
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 463-0660	
12-29-82 DATE	DESIGNED BY: CRC
APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 10-7-82	
<i>Mark F. Neumayr</i>	
STATE OF MARYLAND DIVISION OF LAND DEVELOPMENT & ZONING REGISTERED PROFESSIONAL ENGINEER	
<i>Charles Cochran</i> PROFESSIONAL ENGR. NO. 7823	
DRAWN BY: TAP	
PROJECT NO: 700 E	
DATE: FEB 15, 1982	
SCALE: AS SHOWN	
DRAWING NO 5-1 OF 15	



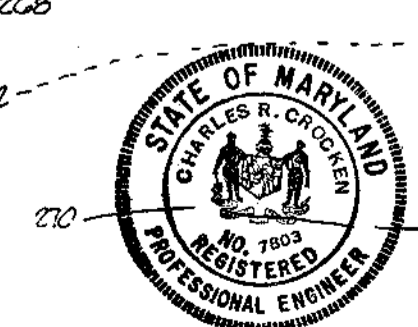
MATCH LINE STA. 1+25 SEE DRAWING 10.3

SECTION 2 HOWARD HILLS PLAT BK 21 PG. 03  
BLACK 'S' HOWARD HILLS PLAT BK 21 PG. 03

SECTION 2 HOWARD HILLS PLAT BK 21 PG. 03

R-12 104°40'16"W  
Savage Cemetery Co. 87/260

**APPROVED**  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82



Charles R. Crocker  
12-29-82

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

Robert Zepher  
Howard Soil Conservation District  
12-30-82

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

James M. Adams  
U.S. Soil Conservation Service  
12-30-82

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.

Steve Storch  
Date 12-29-82

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.

Charles R. Crocker  
Charles R. Crocker, P.E.  
Date 12-29-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

James J. Hump  
PLANNING DIRECTOR  
DATE 1-7-83

John W. Hump  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE 1-7-83

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

James J. Hump  
COUNTY HEALTH OFFICER  
DATE 1-7-83

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Shirley F. Neuman  
DIRECTOR  
DATE 1-7-83

James J. Hump  
CHIEF, BUREAU OF ENGINEERING  
DATE 1-6-83

DATE	NO.	REVISION DESCRIPTION
10-1-82	0	REVISED PER COUNTY COMMENTS
2-20-82	1	REVISED PER COUNTY COMMENTS

RECORDED AS PLAT # 534345344 ON 1/7/83

DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
2030 BALTIMORE STREET  
SAVAGE, MARYLAND 20863

PROJECT: HOWARD HILLS SECTION III PARCELS A,B,C

AREA: SAVAGE MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MD.

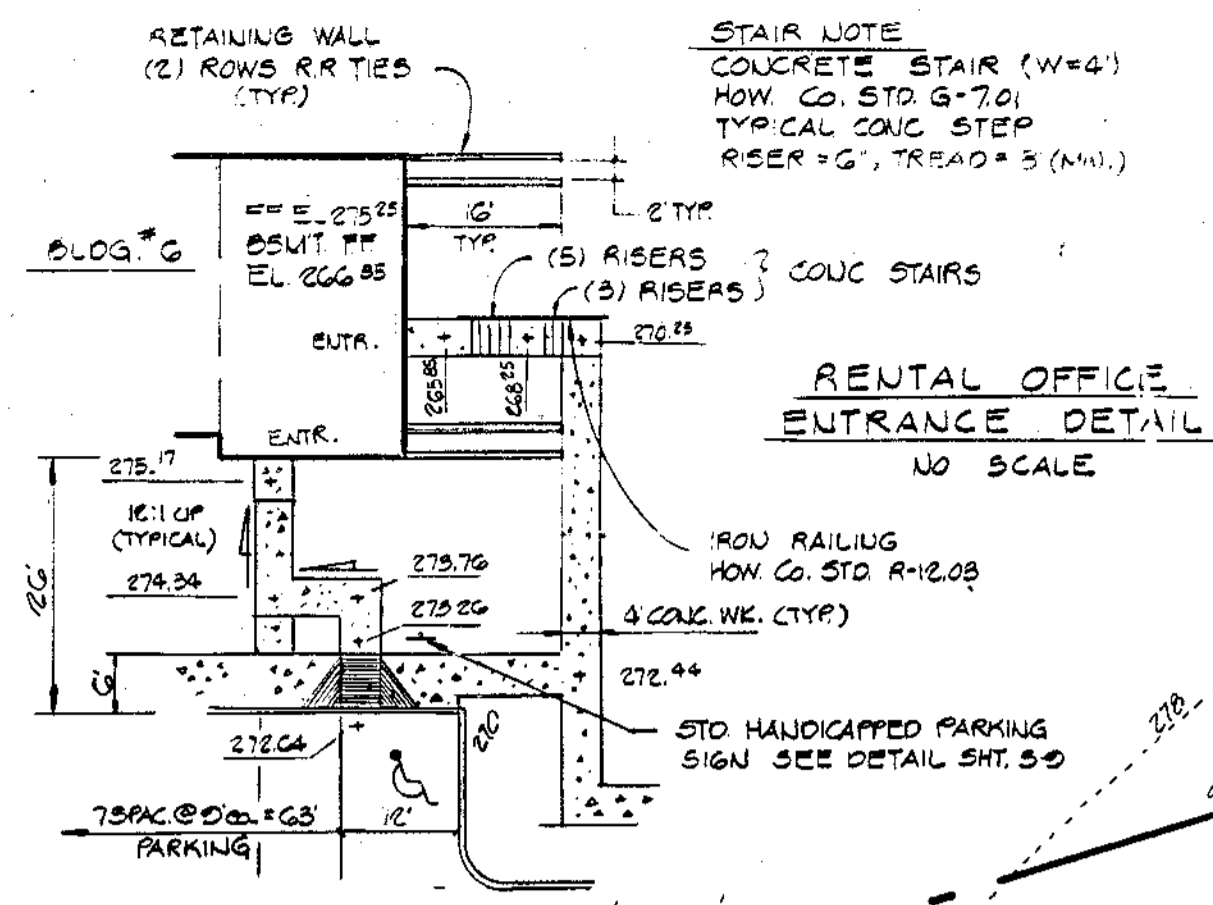
TITLE: SITE DEVELOPMENT PLAN

**TYDINGS HEIM ASSOCIATES INC.**  
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

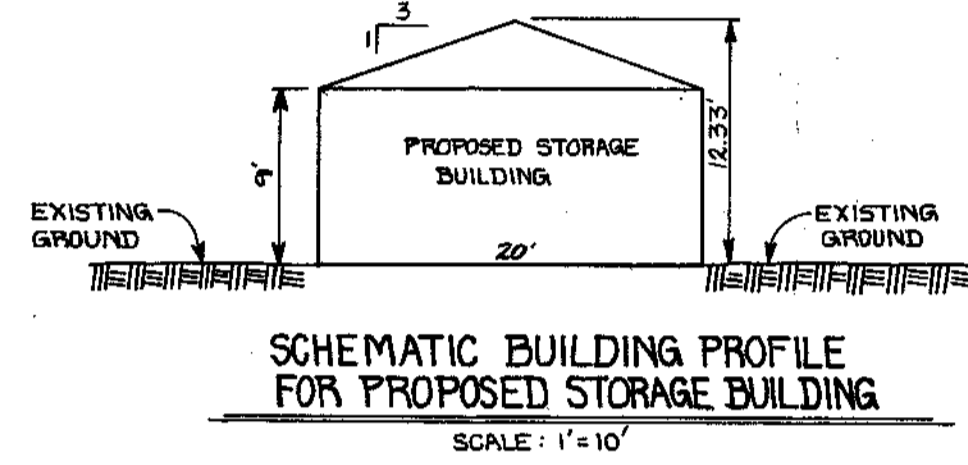
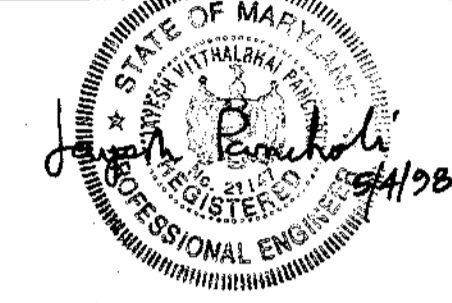
DATE 12-29-82

DESIGNED BY: CRC  
DRAWN BY: TAP  
PROJECT NO: 700 E  
DATE: FEB. 15 1982  
SCALE: 1" = 30'  
DRAWING NO 32 OF 15

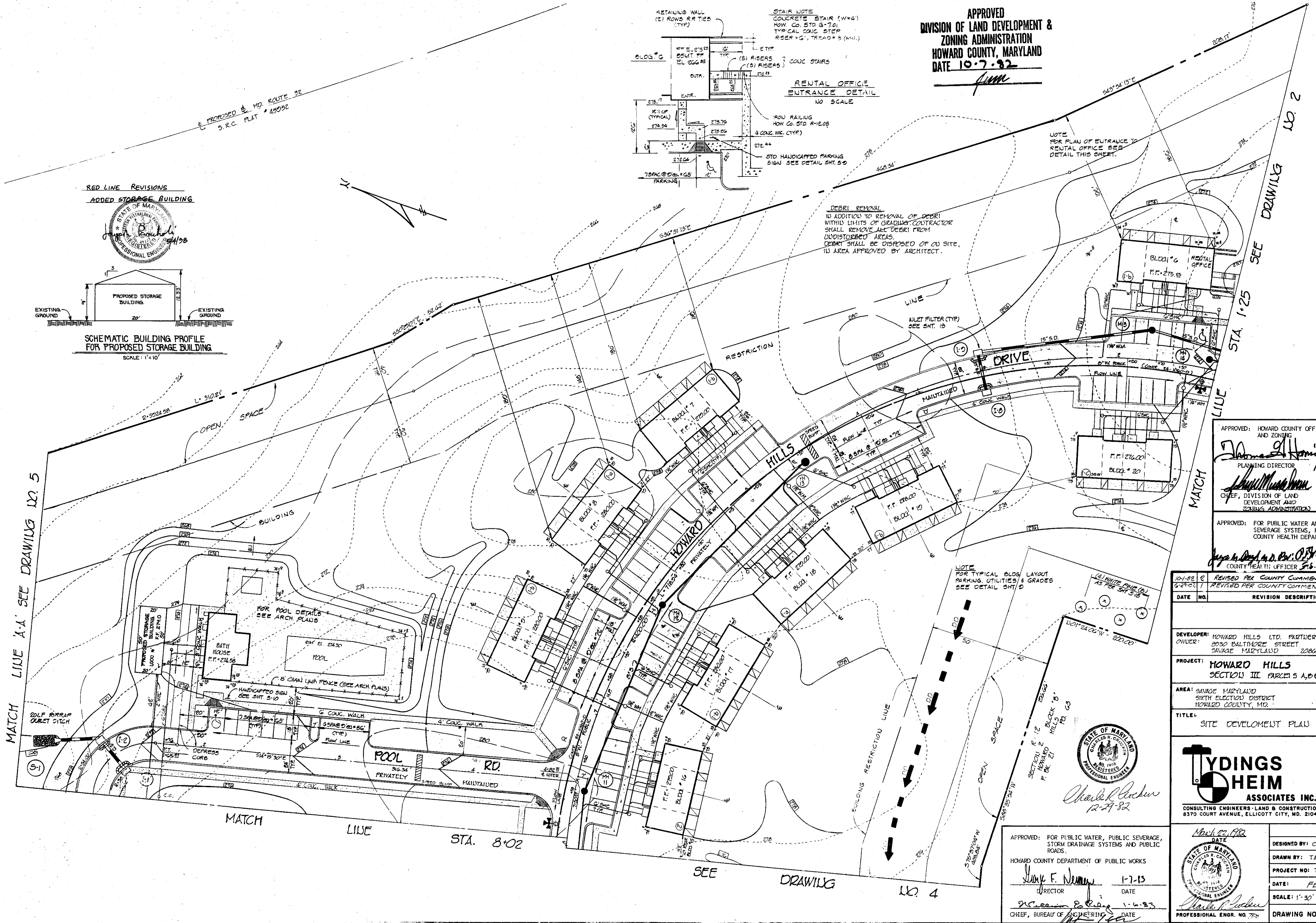
APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82



RED LINE REVISIONS  
ADDED STORAGE BUILDING



DEBRIS REMOVAL  
IN ADDITION TO REMOVAL OF DEBRIS  
WITHIN LIMITS OF GRADING CONTRACTOR  
SHALL REMOVE ALL DEBRIS FROM  
UNDISTURBED AREAS.  
DEBRIS SHALL BE DISPOSED OF ON SITE,  
IN AREA APPROVED BY ARCHITECT.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*James G. Homick* 1-7-83  
PLANNING DIRECTOR DATE

*Shirley M. ...* 1-7-83  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Jay ...* 1-7-83  
COUNTY HEALTH OFFICER DATE

DATE	NO.	REVISION DESCRIPTION
10-1-82	2	REVISED PER COUNTY COMMENTS
6-24-82	1	REVISED PER COUNTY COMMENT

DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
OWNER: 8030 BALTIMORE STREET SAVAGE MAR-LAND 20863

PROJECT: HOWARD HILLS  
SECTION III PARCELS A, B & C

AREA: SAVAGE MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MD.

TITLE: SITE DEVELOPMENT PLAN

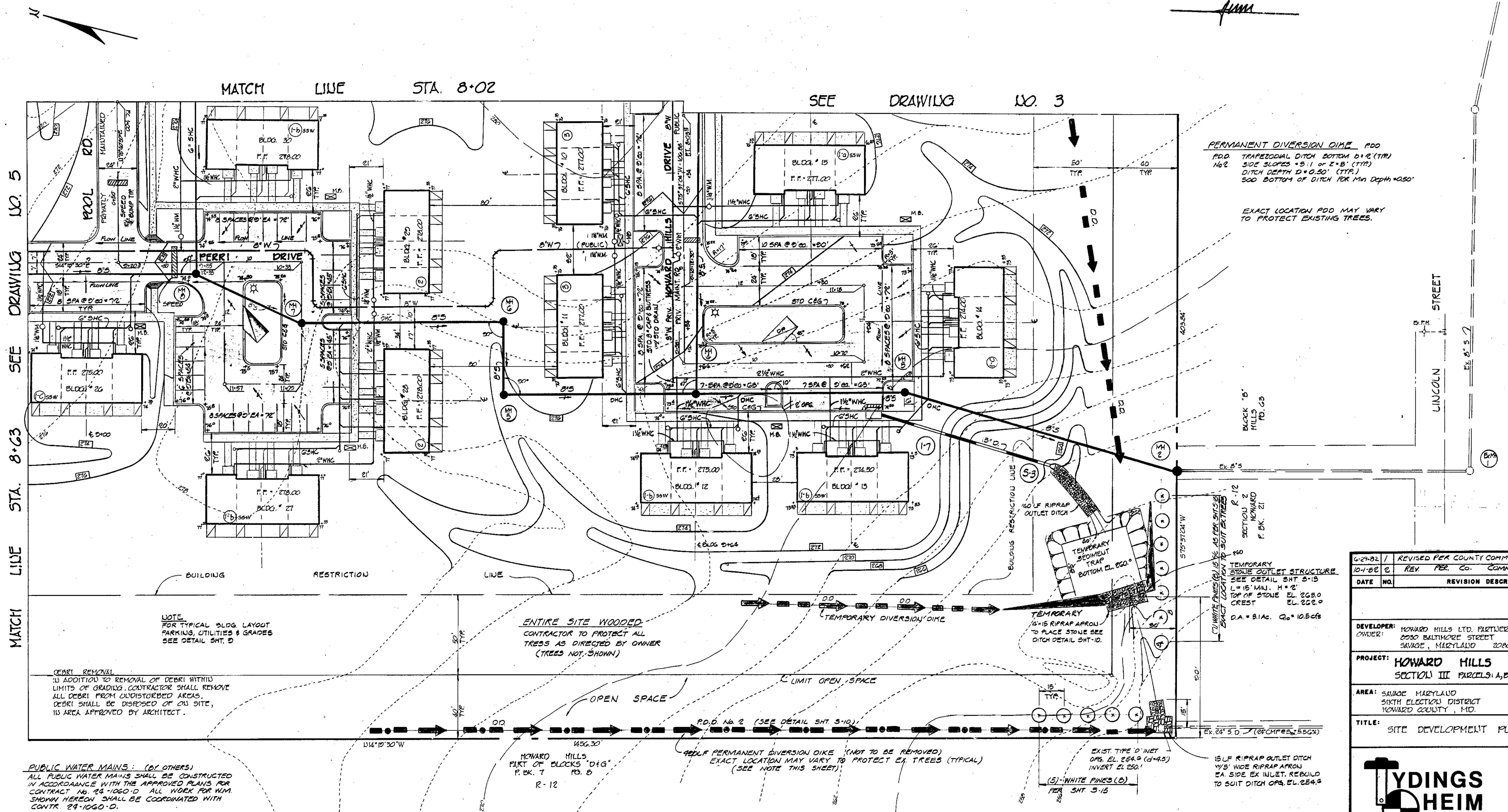
**TYDINGS HEIM ASSOCIATES INC.**  
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 463-0860

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Shirley F. ...* 1-7-83  
DIRECTOR DATE

*W. ...* 1-6-83  
CHIEF, BUREAU OF ENGINEERING DATE

DESIGNED BY: CRC  
DRAWN BY: TAP  
PROJECT NO: 720 E  
DATE: FEB 15 1982  
SCALE: 1" = 30'  
DRAWING NO 53 OF 16

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-7-82  
 JMM



PERMANENT DIVERSION DIKE PDD  
 PDD TRAPEZOIDAL DITCH BOTTOM 6" (TYP)  
 No. 2 SIDE SLOPES 3:1 OR 2:1 (TYP)  
 DITCH DEPTH 2'-0.50' (TYP)  
 500' BOTTOM OF DITCH FOR MIN. DEPTH 4'-50'

EXACT LOCATION PDD MAY VARY  
 TO PROTECT EXISTING TREES.

NOTE  
 FOR TYPICAL BLDG. LAYOUT  
 PARKING, UTILITIES & GRADES  
 SEE DETAIL SHT. 0

ENTIRE SITE WOODED  
 CONTRACTOR TO PROTECT ALL  
 TREES AS DIRECTED BY OWNER  
 (TREES NOT SHOWN)

DEBRIS REMOVAL  
 IN ADDITION TO REMOVAL OF DEBRIS WITHIN  
 LIMITS OF GRADING, CONTRACTOR SHALL REMOVE  
 ALL DEBRIS FROM UNDISTURBED AREAS.  
 DEBRIS SHALL BE DISPOSED OF ON SITE,  
 IN AREA APPROVED BY ARCHITECT.

PUBLIC WATER MAINS: (BY OTHERS)  
 ALL PUBLIC WATER MAINS SHALL BE CONSTRUCTED  
 IN ACCORDANCE WITH THE APPROVED PLANS FOR  
 CONTRACT NO. 24-1060-D. ALL WORK FOR W.M.  
 SHOWN HEREON SHALL BE COORDINATED WITH  
 CONTR. 24-1060-D.

TEMPORARY SEDIMENT TRAP DATA

DRAINAGE AREA	DISTURBED AREA	VOLUME REQ'D.	VOLUME PROVIDED	DEPTH FT.	ELEV. BOTTOM	CLEAN-OUT ELEV.
51AC	2.2AC	147 CY	155 CY	3.0	250.0	260.5

DATE	NO.	REVISION DESCRIPTION
6-21-82	1	REVISED PER COUNTY COMMENT
10-1-82	2	REV. PER CO. COMMENTS

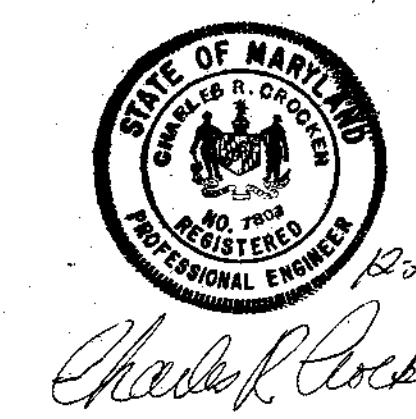
DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
 OWNER: 2030 BALTIMORE STREET  
 SAVAGE, MARYLAND 20863

PROJECT: HOWARD HILLS  
 SECTION III PARCELS A, B, C

AREA: SAVAGE MARYLAND  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MD.

TITLE: SITE DEVELOPMENT PLAN

**TYDINGS HEIM**  
 ASSOCIATES INC.  
 CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 J. J. ... 1-7-83  
 COUNTY HEALTH OFFICER P.S. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 Thomas ... 1-7-83  
 PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 ... 1-7-83  
 DIRECTOR DATE

APPROVED: ... 1-6-83  
 ... 1-6-83  
 CHIEF, BUREAU OF ENGINEERING DATE

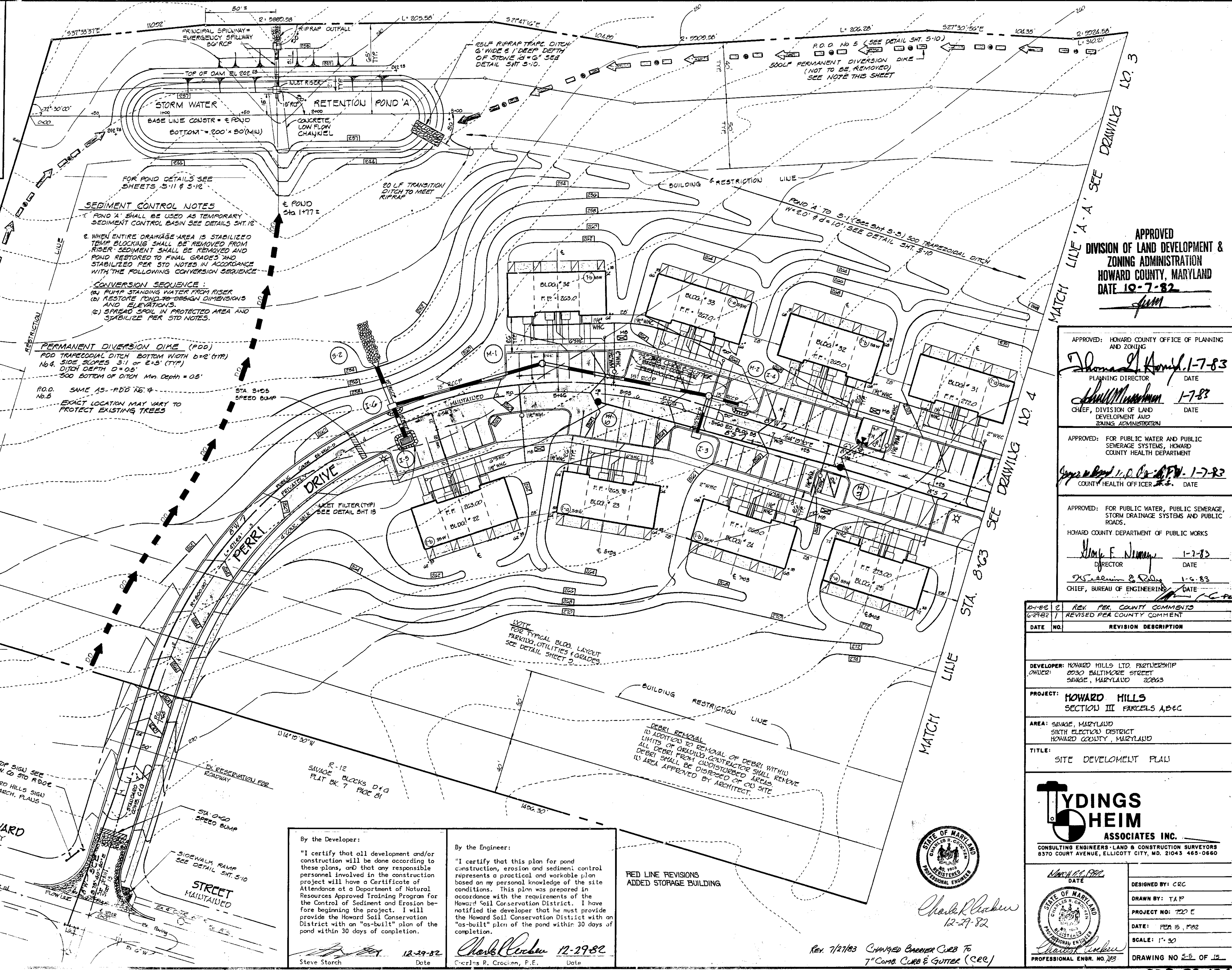
DESIGNED BY: CRC  
 DRAWN BY: T.A.P.  
 PROJECT NO: 720 E  
 DATE: FEB. 15, 1982  
 SCALE: 1" = 20'  
 DRAWING NO. 51 OF 12

Reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion control.

*James M. Adams* 12-30-82  
Soil Conservation Service Date

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

*James M. Adams* 12-30-82  
Howard Soil Conservation District Date



**SEDIMENT CONTROL NOTES**

1. POND A SHALL BE USED AS TEMPORARY SEDIMENT CONTROL BASIN SEE DETAILS SHT. 12

2. WHEN ENTIRE DRAINAGE AREA IS STABILIZED TEMP BLOCKING SHALL BE REMOVED FROM RISER SEDIMENT SHALL BE REMOVED AND POND RESTORED TO DESIGN DIMENSIONS AND ELEVATIONS.

3. SPREAD SOIL IN PROTECTED AREA AND STABILIZE PER STD NOTES.

**CONVERSION SEQUENCE:**

(a) PUMP STANDING WATER FROM RISER  
(b) RESTORE POND TO DESIGN DIMENSIONS AND ELEVATIONS.  
(c) SPREAD SOIL IN PROTECTED AREA AND STABILIZE PER STD NOTES.

**PERMANENT DIVERSION DIKE (PDD)**

PDD TRAPEZOIDAL DITCH BOTTOM WIDTH b=2' (TYP) NO. 4. SIDE SLOPES 3:1 OR 2:5 (TYP) DITCH DEPTH D=0.5' 500' BOTTOM OF DITCH MIN. DEPTH = 0.5'

R.O.D. SAME AS PDD NO. 4 EXACT LOCATION MAY VARY TO PROTECT EXISTING TREES

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82  
*JMM*

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Thomas L. Smith* 1-7-83  
PLANNING DIRECTOR DATE

*Shull M. Madsen* 1-7-83  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*James R. ...* 1-7-83  
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Walter F. ...* 1-7-83  
DIRECTOR DATE

*W. ...* 1-6-83  
CHIEF, BUREAU OF ENGINEERS DATE

DATE	NO.	REVISION DESCRIPTION
04-82	2	REV. PER. COUNTY COMMENTS
06-82	1	REVISED PER COUNTY COMMENT

**DEVELOPER:** HOWARD HILLS LTD. PARTNERSHIP  
OWNER: 8230 BALTIMORE STREET SAVAGE, MARYLAND 20863

**PROJECT:** HOWARD HILLS SECTION III PARCELS A,B,C

**AREA:** SAVAGE, MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**TITLE:** SITE DEVELOPMENT PLAN

**TYDINGS HEIM ASSOCIATES INC.**  
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0860

DATE: MARCH 11, 1982

DESIGNED BY: CRG  
DRAWN BY: TAP  
PROJECT NO: 722 E  
DATE: FEB 15, 1982  
SCALE: 1" = 30'  
DRAWING NO 5-2 OF 15

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."  
*Steve Storch* 12-29-82  
Steve Storch Date

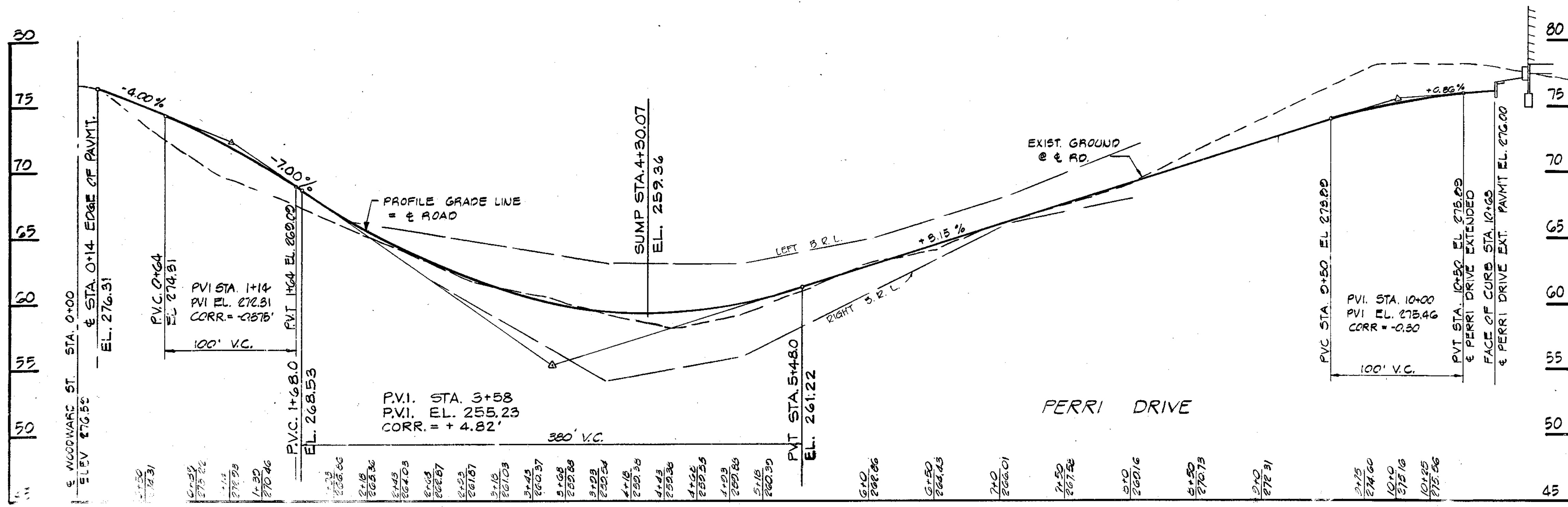
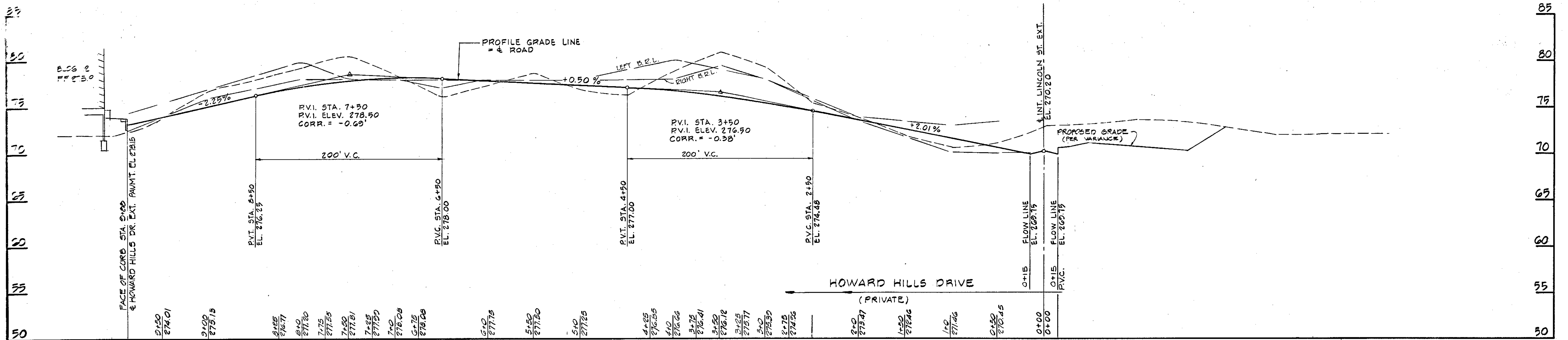
By the Engineer:  
"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have 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."  
*Charles R. Crocken* 12-29-82  
Charles R. Crocken, P.E. Date

RED LINE REVISIONS  
ADDED STORAGE BUILDING



*Charles R. Crocken*  
12-29-82

REV. 7/27/83 CHANGED CURB TO 7" COMP. CURB & GUTTER (C/C)



APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-7-82  
*JMM*

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Thomas J. Hamill* 1-7-83  
 PLANNING DIRECTOR DATE  
*John W. M... ..* 1-7-83  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*George M. Boyd, J.D. D. O.P.E.N.* 1-7-83  
 COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John F. Neuman* 1-7-83  
 DIRECTOR DATE  
*W. C. ... ..* 1-6-83  
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION DESCRIPTION
10-1-82	1	REVISED PER COUNTY COMMENT
10-1-82	2	REV. PER COUNTY COMMENTS

DEVELOPER / OWNER: HOWARD HILLS LTD. PARTNERSHIP  
 8720 BALTIMORE STREET  
 SAVAGE, MARYLAND 20869  
 PROJECT: SECTION 3 PARCELS A,B,C  
**HOWARD HILLS**  
 AREA: SAVAGE, MARYLAND  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MD.  
 TITLE: ROAD PROFILES

**TYDINGS HEIM ASSOCIATES INC.**  
 CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

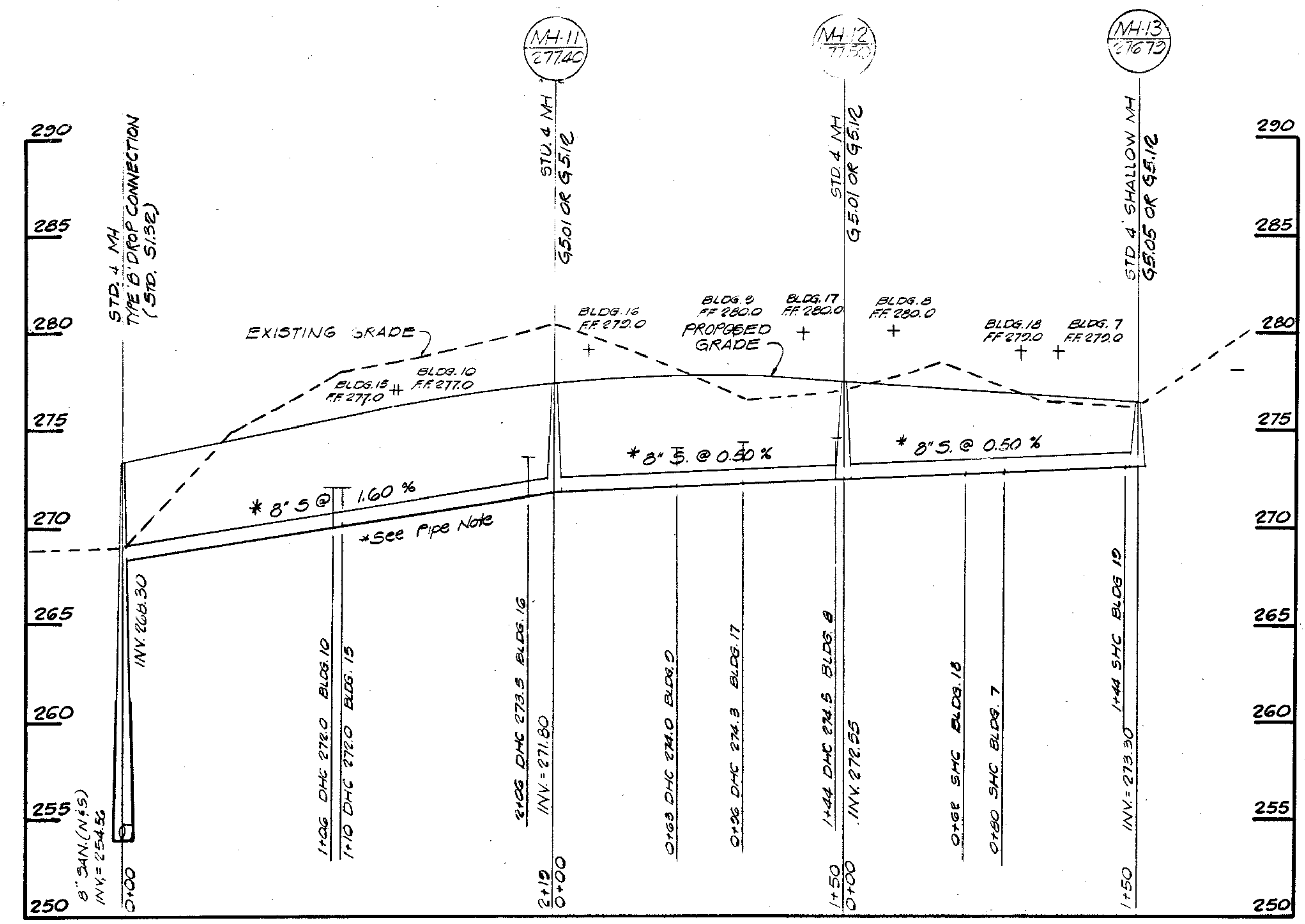


*Charles K. Cochran*  
 12-29-82

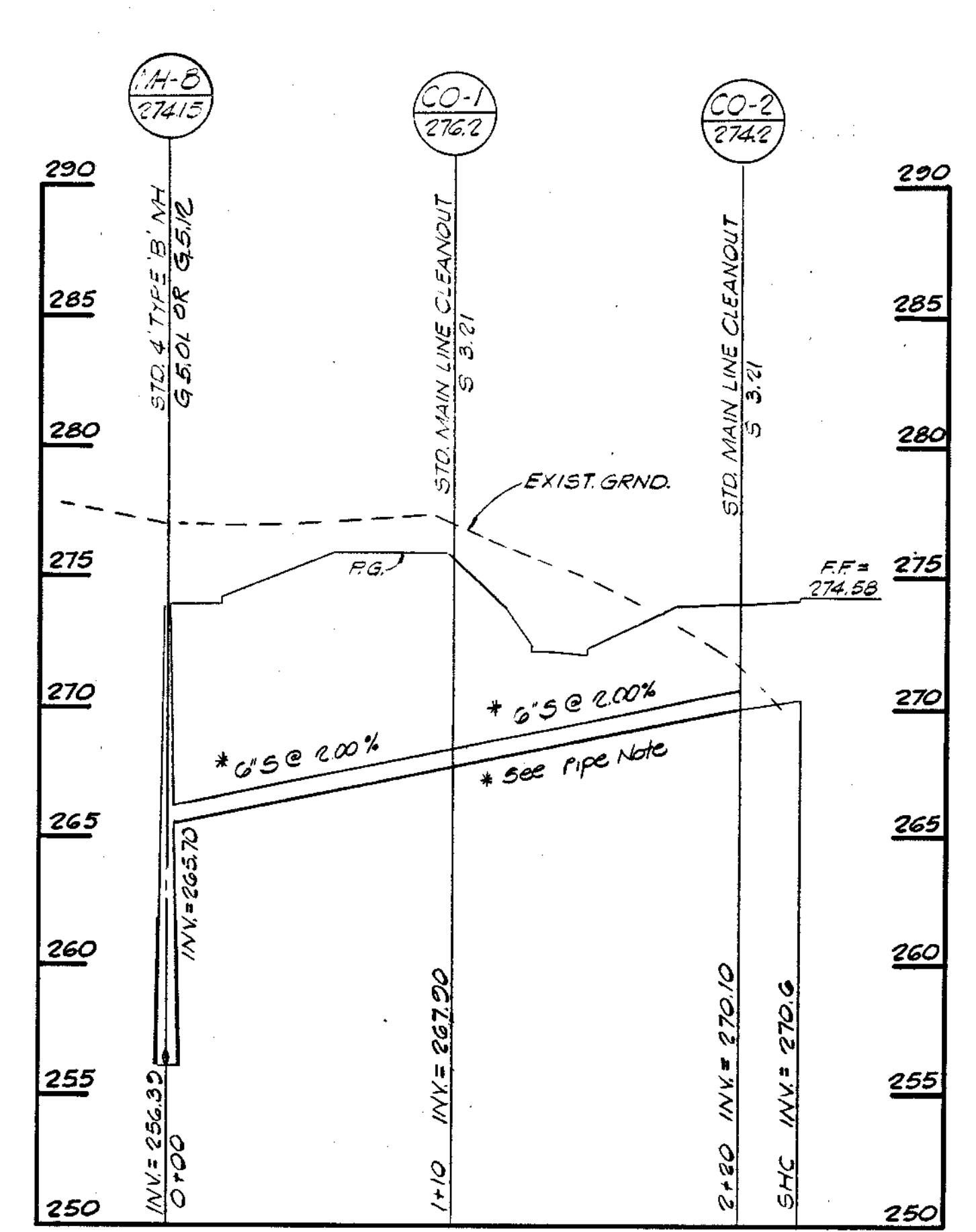
DESIGNED BY: CRC  
 DRAWN BY: CRC  
 PROJECT NO: 790  
 DATE: FEB. 15 1982  
 SCALE: VER. 1"=5'  
 HOR. 1"=50'  
 DRAWING NO 56 OF 15

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: *James Nung* 1-7-83  
 DATE: 1-6-83  
 Chief, Bureau of Engineering: *[Signature]* DATE: 1-6-83

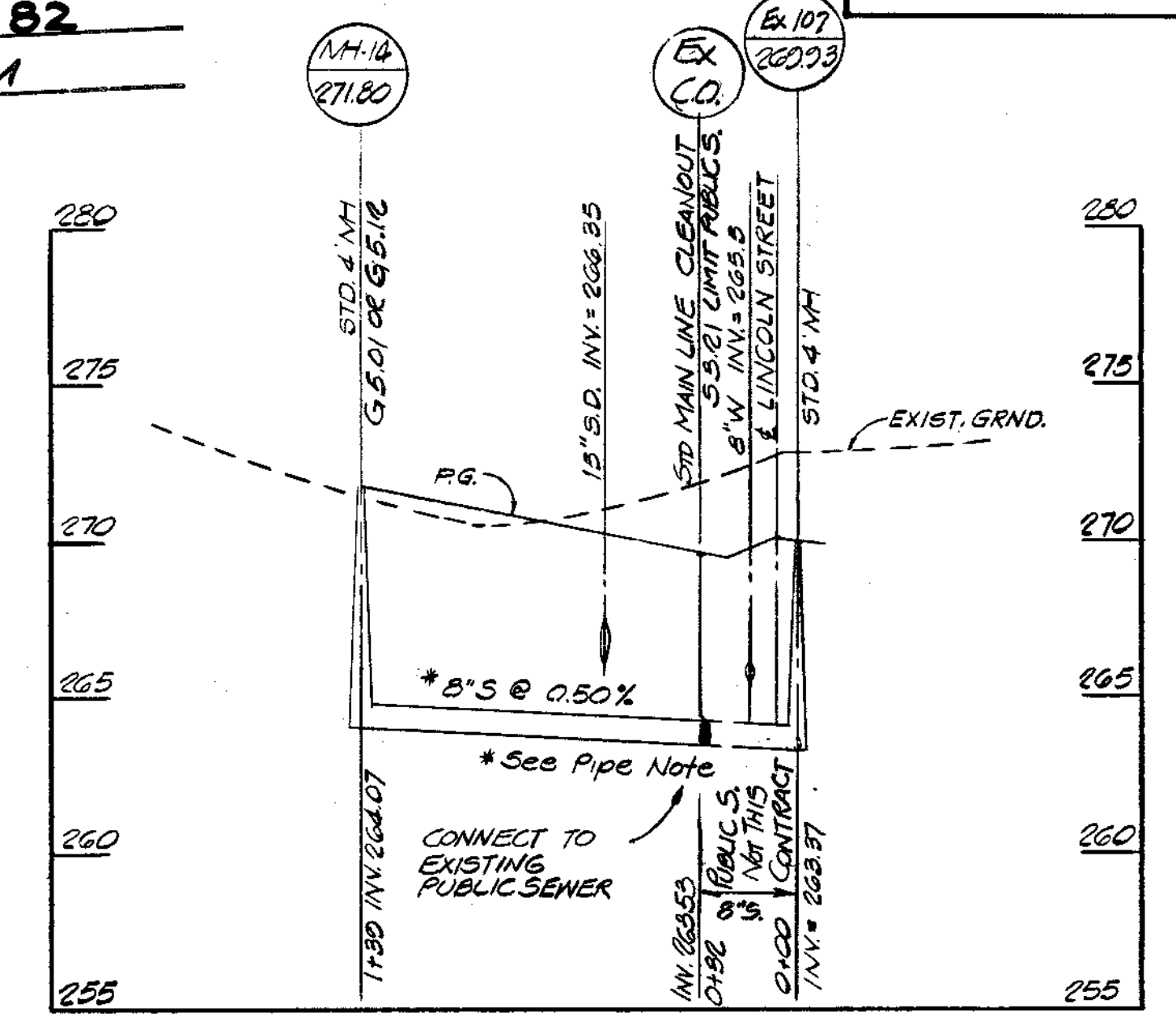
APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-7-82  
*[Signature]*



HOWARD HILLS DRIVE SCALE 1" = 50' HOR. 1" = 5' VER.

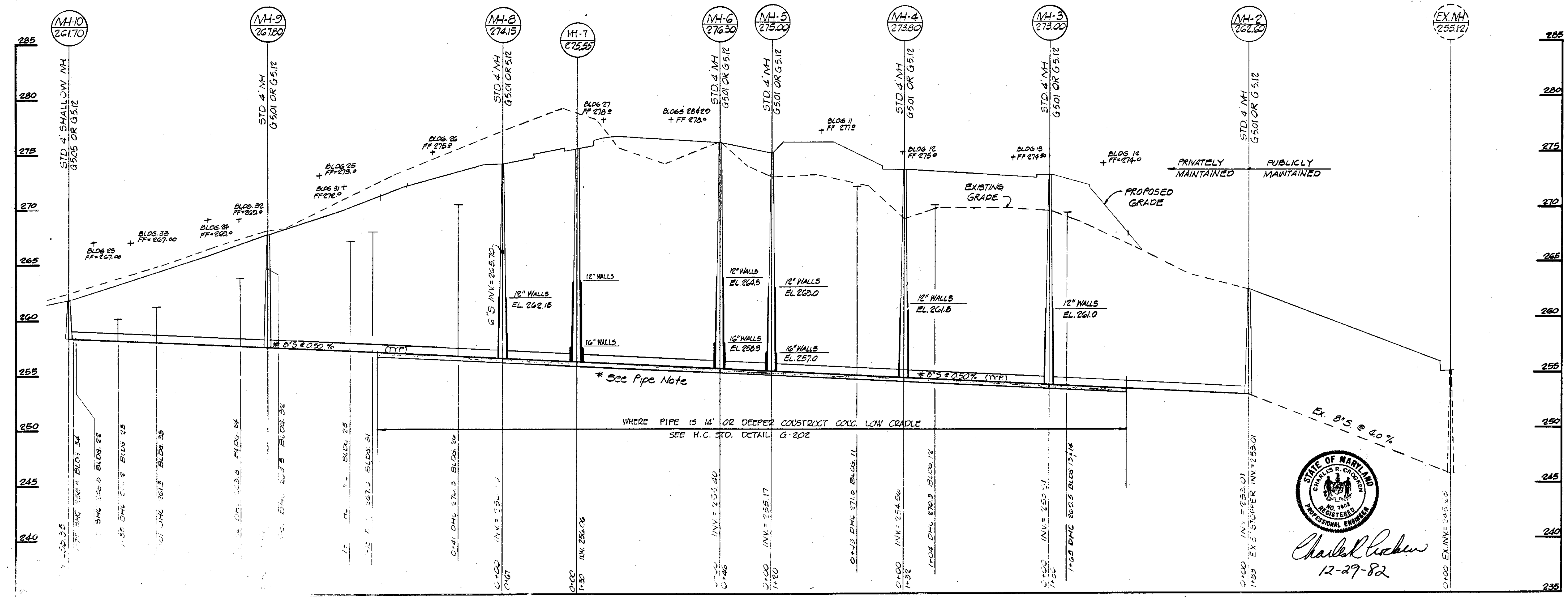


POOL ROAD SCALE 1" = 50' HOR. 1" = 5' VER.



HOWARD HILLS DRIVE SCALE 1" = 50' HOR. 1" = 5' VER.

\* PIPE NOTE:  
 All San Sewer Pipe shall be V.C.P.K. or C.S.P.K.  
 all work and materials shall be in accordance with Howard Co. Std. Specs. and Details.



PERRI DRIVE SCALE 1" = 50' HOR. 1" = 5' VER.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 Planning Director: *Thomas L. Hamill* 1-7-83  
 DATE: 1-7-83  
 Chief, Division of Land Development and Zoning Administration: *[Signature]* 1-7-83  
 DATE: 1-7-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: *[Signature]* 1-7-83  
 DATE: 1-7-83

DATE	NO.	REVISION DESCRIPTION
6-29-82	1	REVISED PER COUNTY COMMENT
10-1-82	2	REV. PER COUNTY COMMENTS

DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
 OWNER: 2030 BALTIMORE STREET SAUGE, MARYLAND 20863  
 PROJECT: HOWARD HILLS SECTION III PARCELS A,B,C  
 AREA: SAUGE, MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MD.  
 TITLE: PRIVATE SEWER PROFILES

**TYDINGS HEIM ASSOCIATES INC.**  
 CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

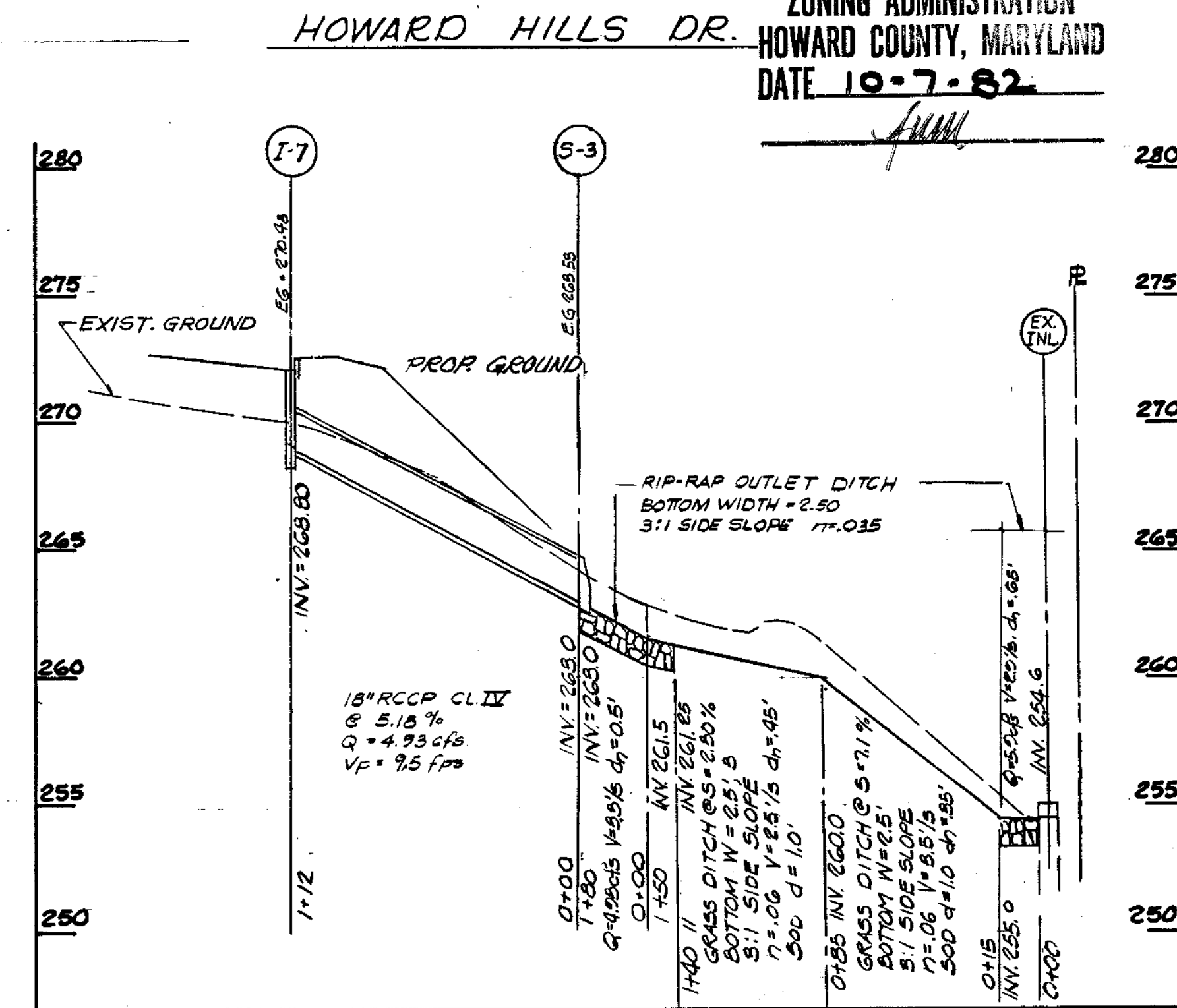
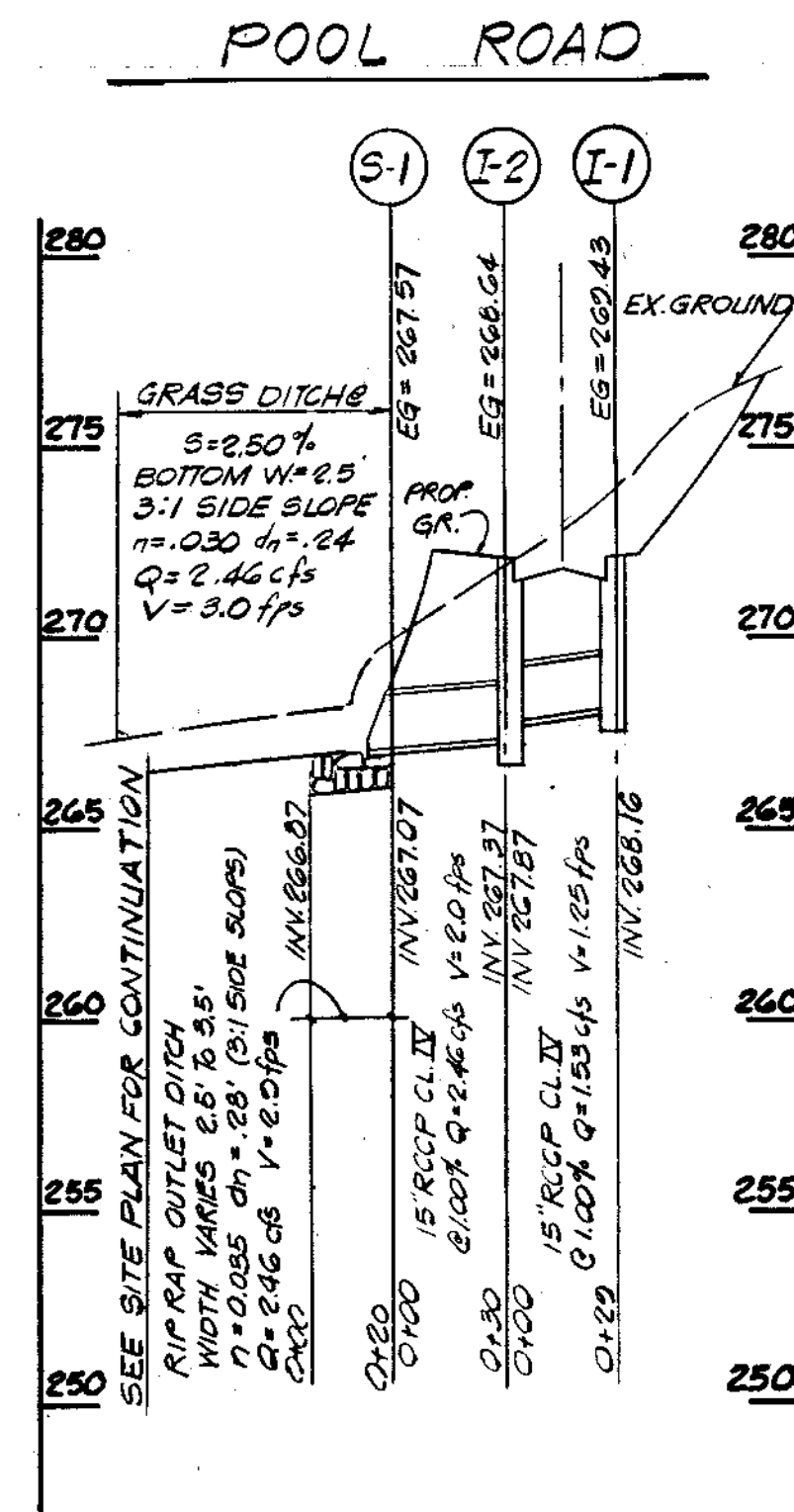
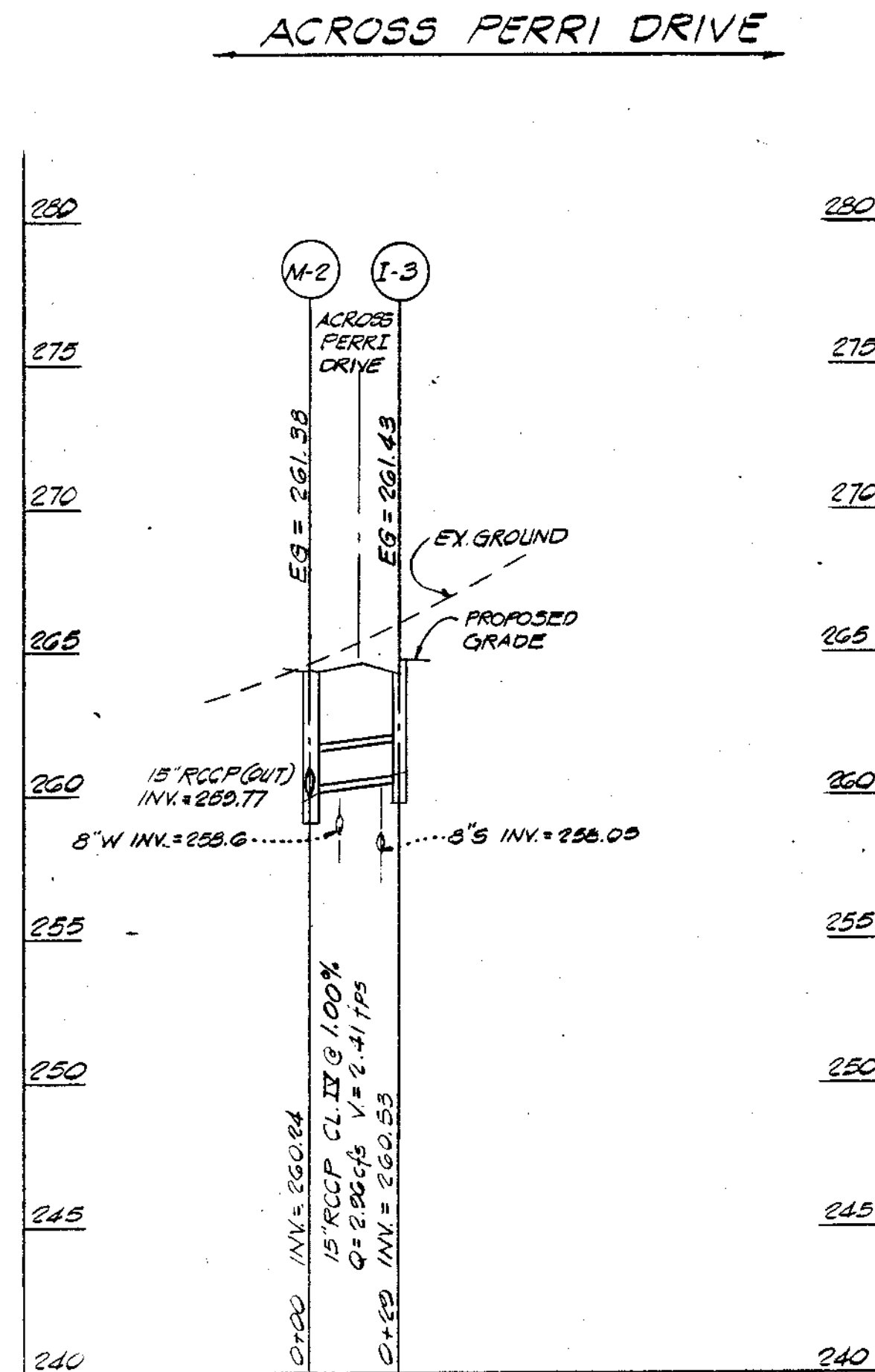
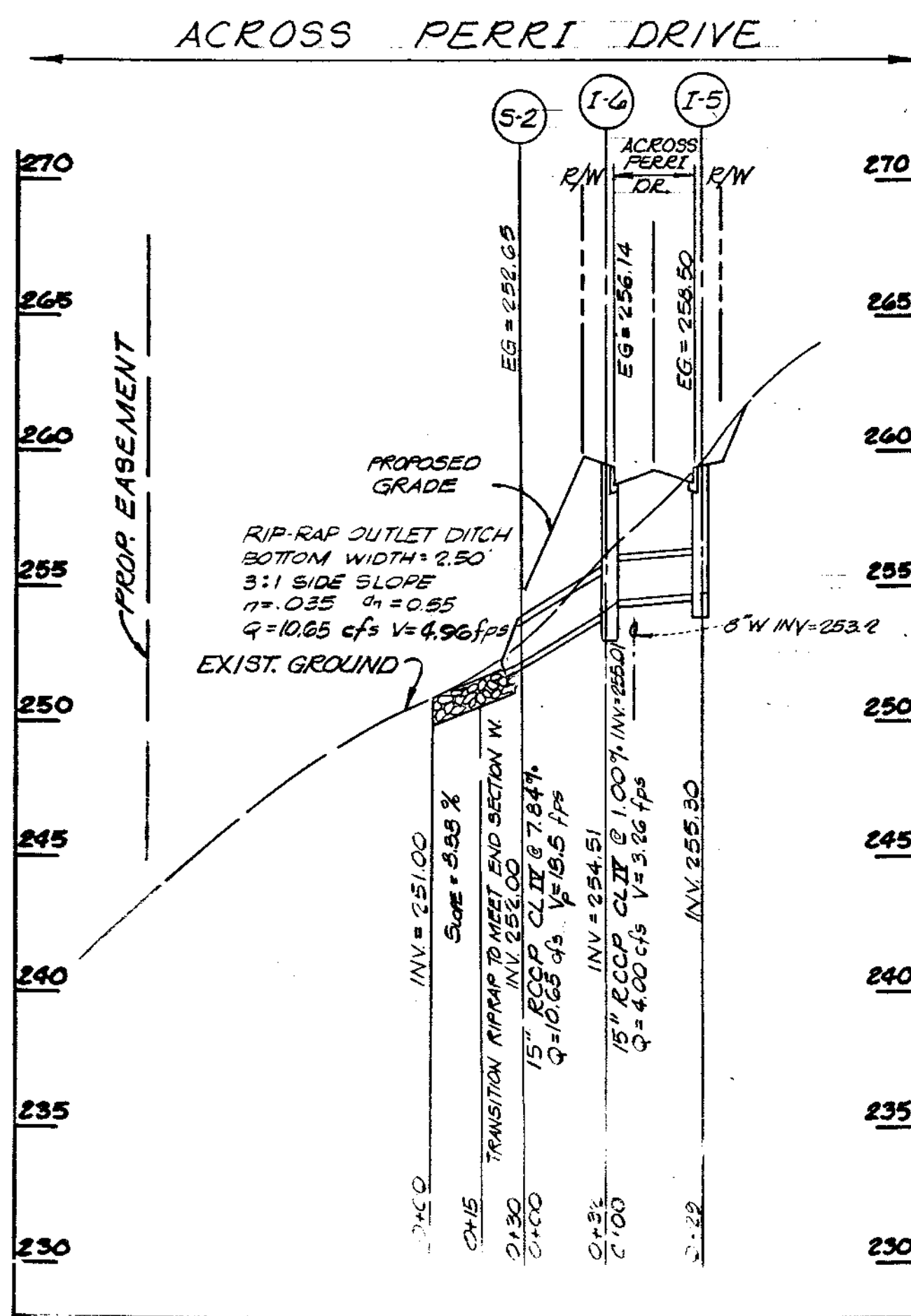
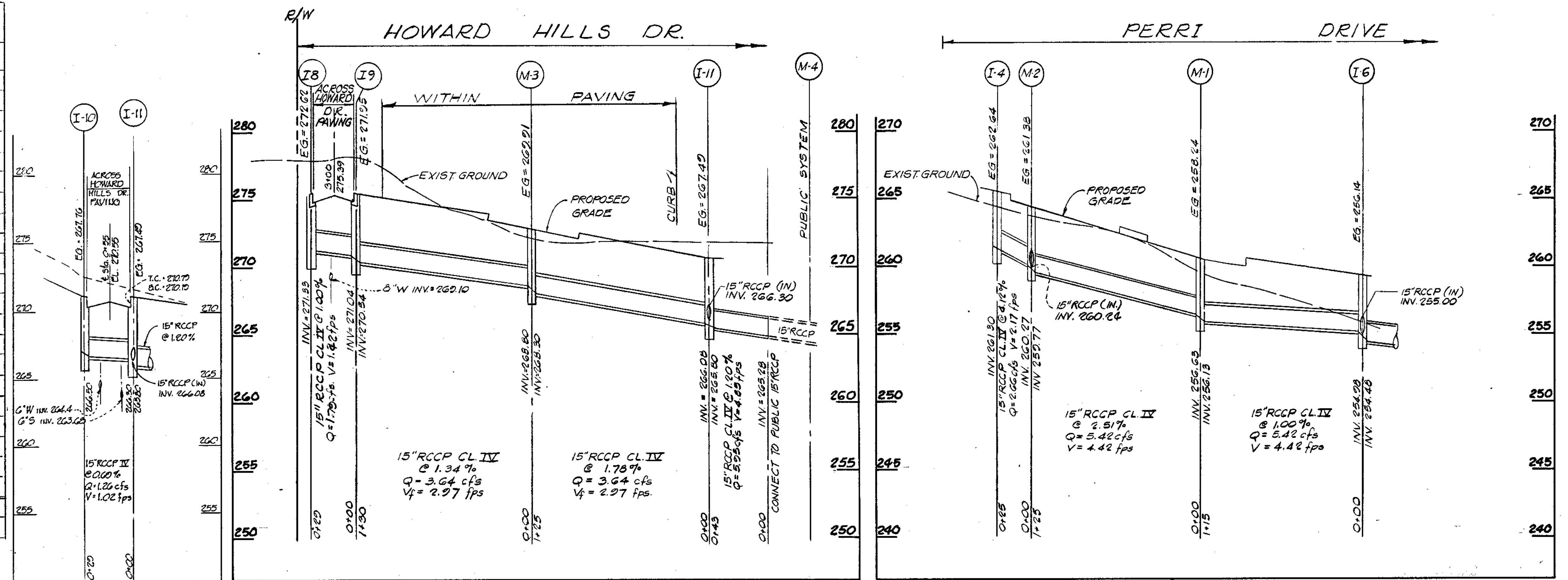
DESIGNED BY: C.R.C.  
 DRAWN BY: H.E.D.  
 PROJECT NO: 700 E  
 DATE: FEB 15 1982  
 SCALE: AS SHOWN  
 DRAWING NO 57 OF 18



*Charles Tucker*  
 12-29-82

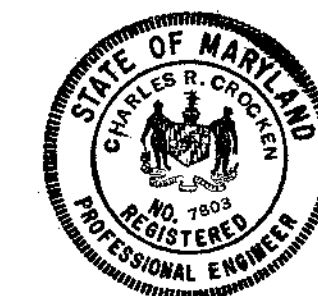
STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV	DESCRIPTION
I-1	STD A-5 INLET	POOL RD	—	268.16	272.10	HOW CO STD S.D.-4.01
I-2	STD A-5 INLET	POOL RD	267.97	267.37	272.10	HOW CO STD S.D.-4.01
S-1	CONC END SECTION	POOL RD	—	267.07	—	SEE DETAIL SHT.
I-3	A-5 W/DEFLECTOR	FERRI DR 6+50-12 RT	—	260.59	264.66	HOW CO STD S.D.-4.01
I-4	A-5 W/DEFLECTOR	FERRI DR 6+75-12 LT	—	261.30	265.45	HOW CO STD S.D.-4.01
M-2	SHALLOW MANHOLE	FERRI DR 6+50-14 LT	260.27	259.77	264.18	HOW CO STD G-5.05
M-1	SHALLOW MANHOLE	FERRI DR 5+35-20 LT	256.03	256.13	260.63	HOW CO STD G-5.05
I-5	STD DBL S INLET	FERRI DR 4+30-12 RT	—	255.30	259.00	HOW CO STD S.D.-4.23
I-2	STD A-5 INLET	FERRI DR 4+30-12 LT	255.01	254.51	259.60	HOW CO STD S.D.-4.01
S-2	CONC. END SECTION	FERRI DR 4+30-46 LT	—	252.00	—	SEE DETAIL SHT.
I-7	STD A-10 INLET	HOW HILL DR SEE PLAN	—	268.80	272.50	HOW CO STD S.D.-4.02
S-3	CONC. END SECTION	HOW HILL DR SEE PLAN	—	263.00	—	SEE DETAIL SHT.
I-5	STD A-5 INLET	HOW HILL DR 3+00-12 LT	—	271.33	275.63	HOW CO STD S.D.-4.01
I-2	STD A-5 INLET	HOW HILL DR 3+00-12 RT	271.04	270.54	275.63	HOW CO STD S.D.-4.01
M-3	SHALLOW MANHOLE	HOW HILL DR 1+75-22 RT	268.80	268.30	272.81	HOW CO STD G-5.05
I-10	A-5 W/DEFLECTORS	HOW HILL DR 0+55-12 LT	—	266.50	270.79	HOW CO STD S.D.-4.01
I-11	A-5 W/DEFLECTORS	HOW HILL DR 0+55-12 RT	266.30	265.80	270.79	HOW CO STD S.D.-4.01



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Donald L. Haring* 1-7-83  
 PLANNING DIRECTOR DATE  
*John M. Mumford* 1-7-83  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Seymour G. ...* 1-7-83  
 COUNTY HEALTH OFFICER DATE  
 REVISIONS:  
 2-24-82 REVISED PER COUNTY COMMENTS  
 1-1-82 REV PER COUNTY COMMENTS  
 OWNER:  
 DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
 8930 BALTIMORE STREET  
 SAVAGE MARYLAND 20865  
 PROJECT: SECTION 3 PARCELS A,B,C  
 HOWARD HILLS  
 AREA: SAVAGE, MARYLAND  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MD.  
 TITLE: STORM DRAIN PROFILES  
**TYDINGS HEIM ASSOCIATES INC.**  
 CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John F. Nemy* 1-7-83  
 DIRECTOR DATE  
*William E. Kelly* 1-6-83  
 CHIEF, BUREAU OF ENGINEERING DATE  
 TAX MAP 47 PARCEL 493  
 DESIGNED BY: C.R.C.  
 DRAWN BY: M.D.  
 PROJECT NO: 700 E  
 DATE: FEB 15, 1982  
 SCALE: 1"=5' VERT  
 1"=50' HORIZ  
 DRAWING NO 52 OF 15

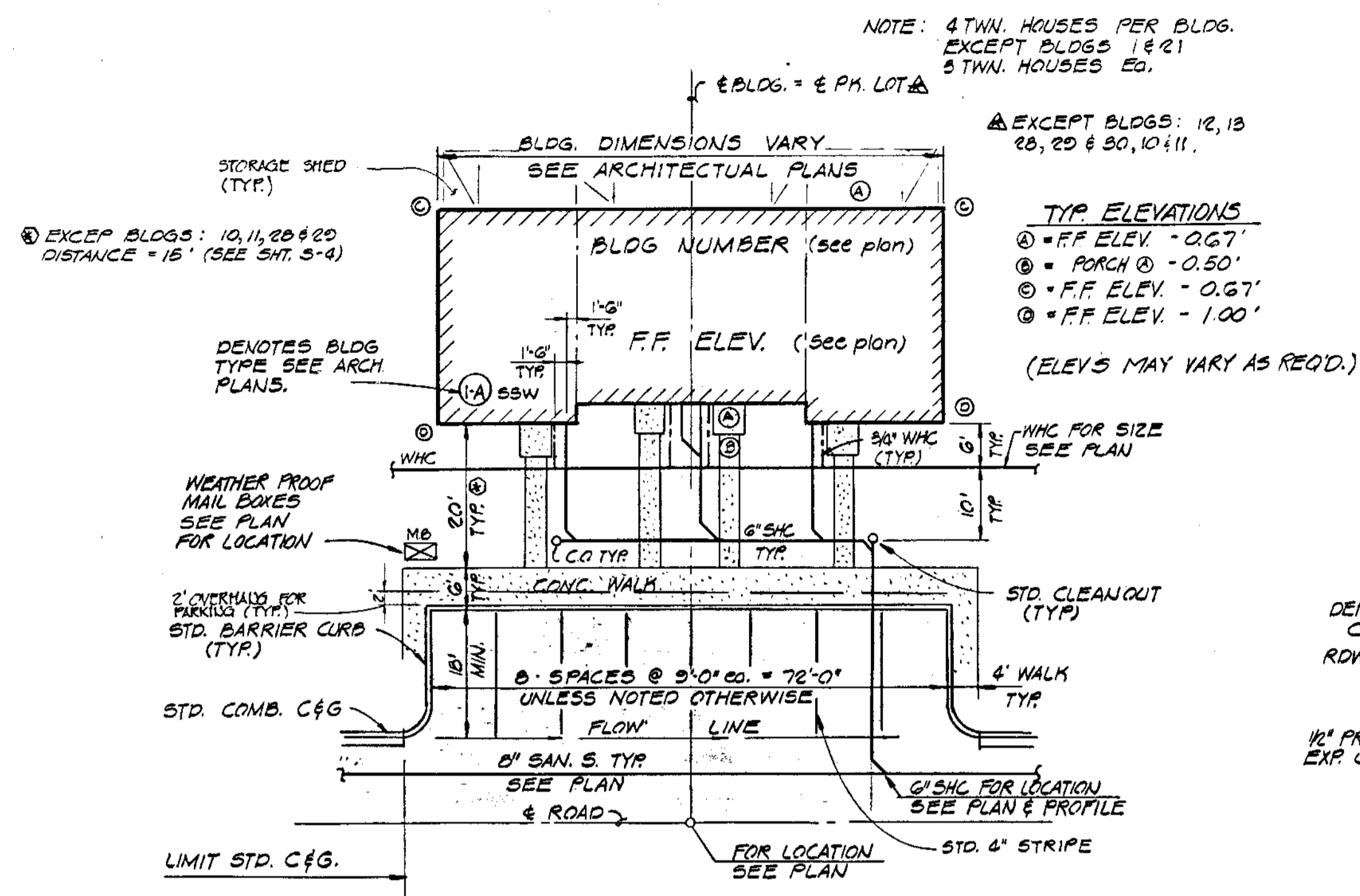


*Charles R. Cohen*  
12-29-82

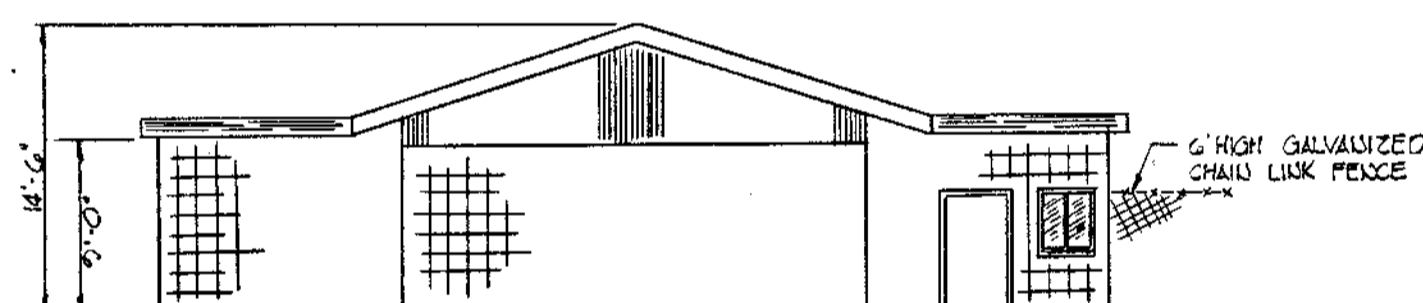
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John F. Nemy* 1-7-83  
 DIRECTOR DATE  
*William E. Kelly* 1-6-83  
 CHIEF, BUREAU OF ENGINEERING DATE



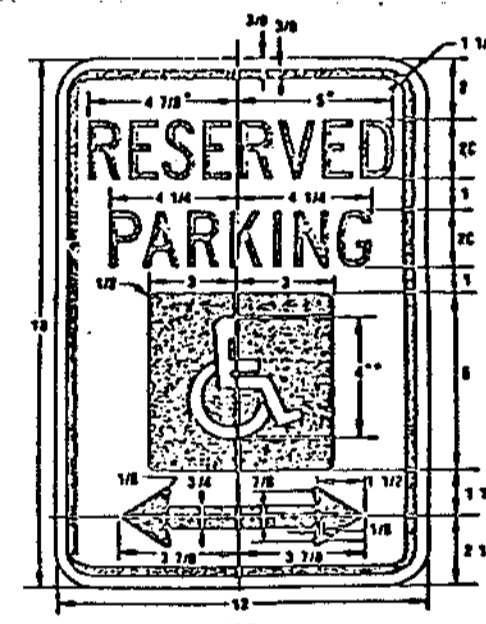




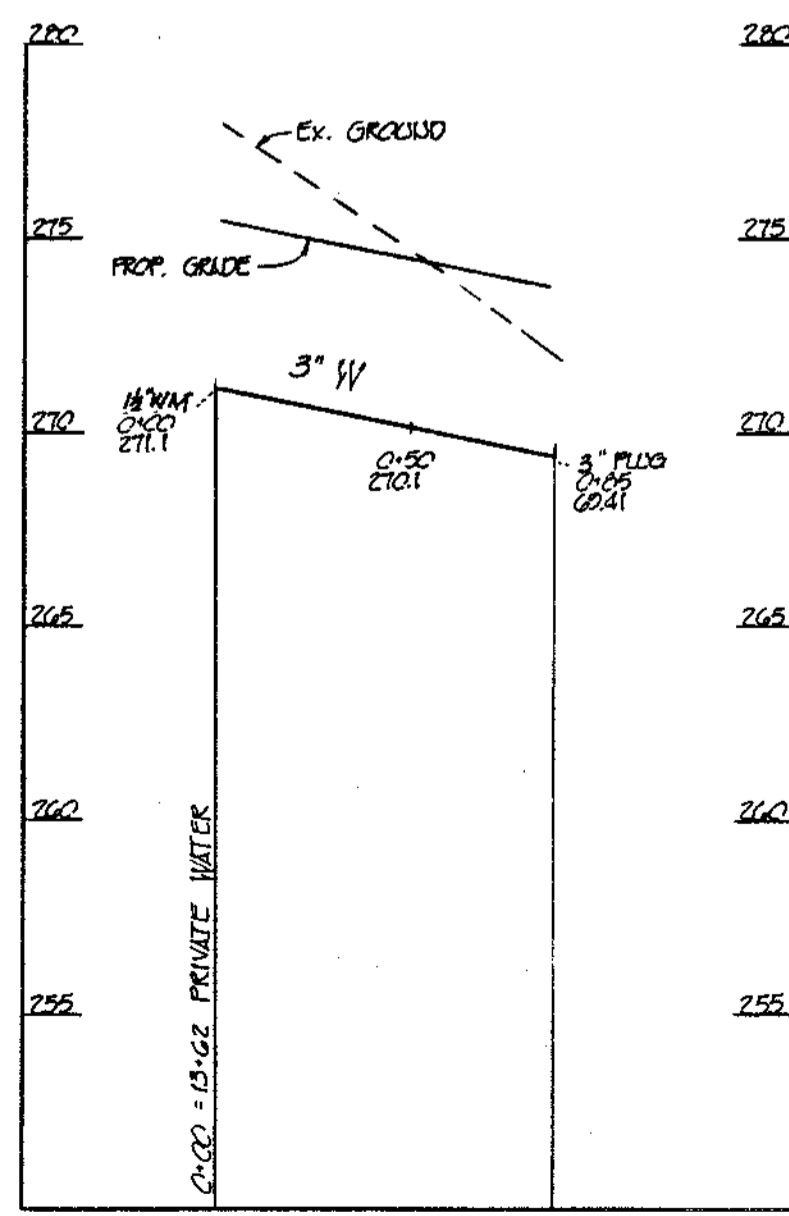
TYP. TOWNHOUSE BLDG - PARKING WATER AND SEWER LAYOUT DETAIL  
NO SCALE



FROST ELEVATION BATH HOUSE  
NO SCALE

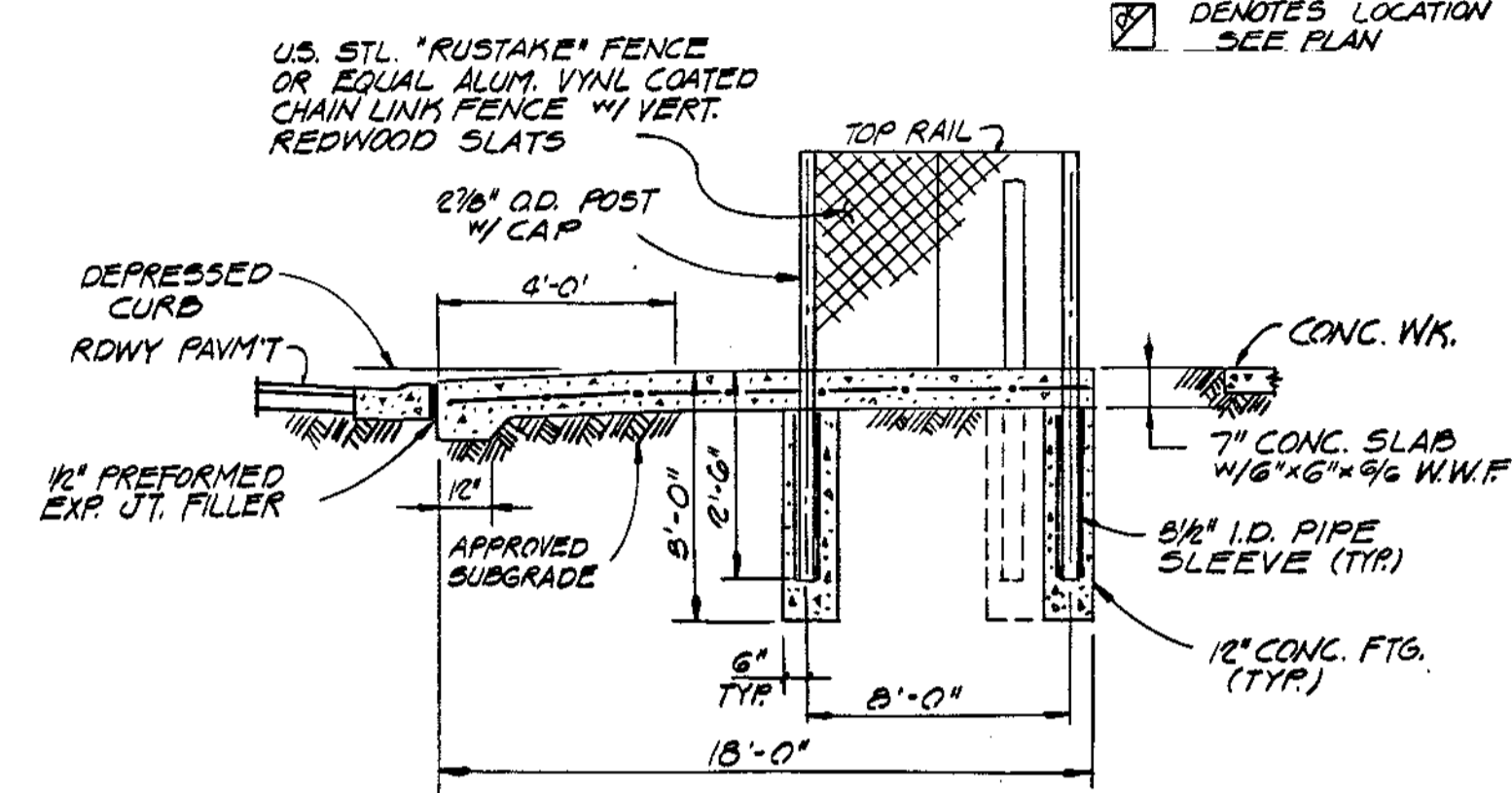
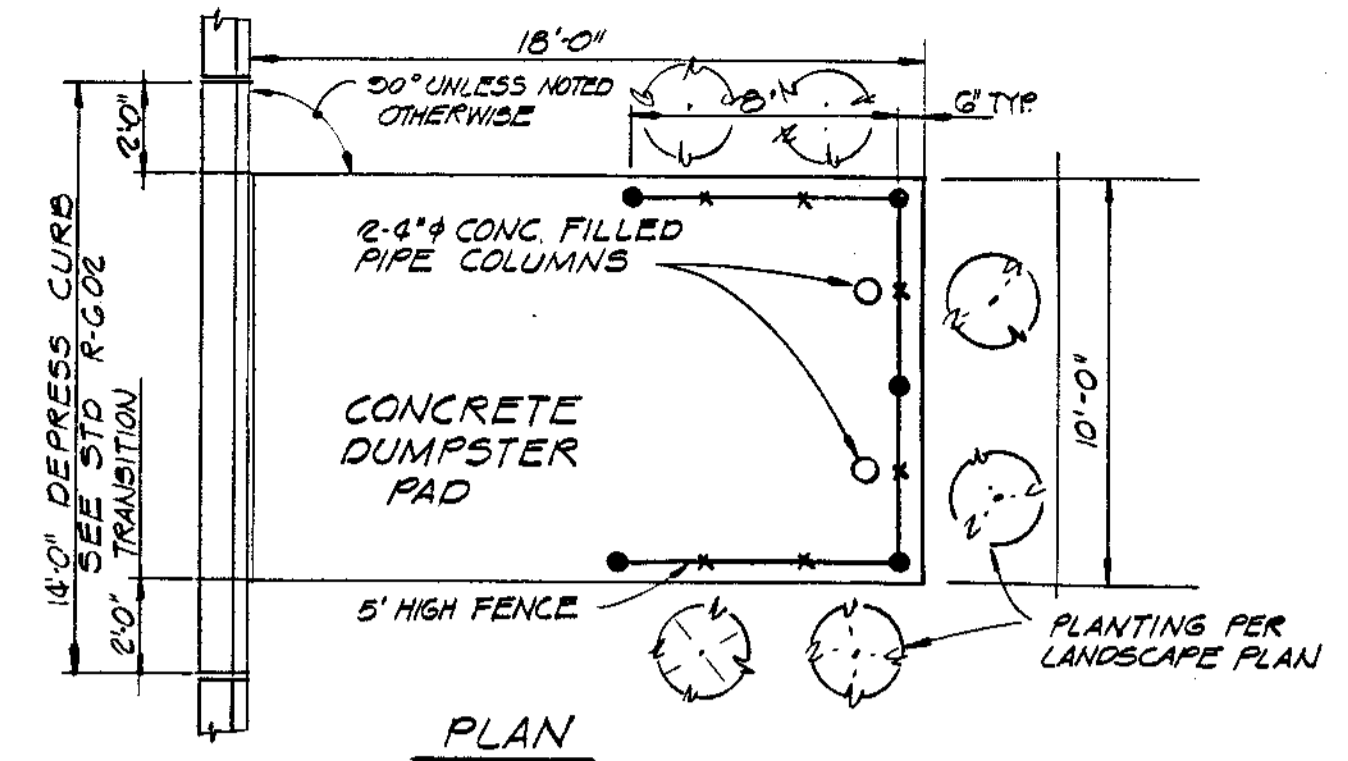


DETAIL HANDICAPPED SIGN



HOWARD HILLS DRIVE PRIVATE 3" W.M.

Scale 1" = 50' Hor. 1" = 5' Vert.



TYP. DUMPSTER PAD - DETAIL  
NO SCALE

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-7-82



Charles R. Cochran  
12-29-82

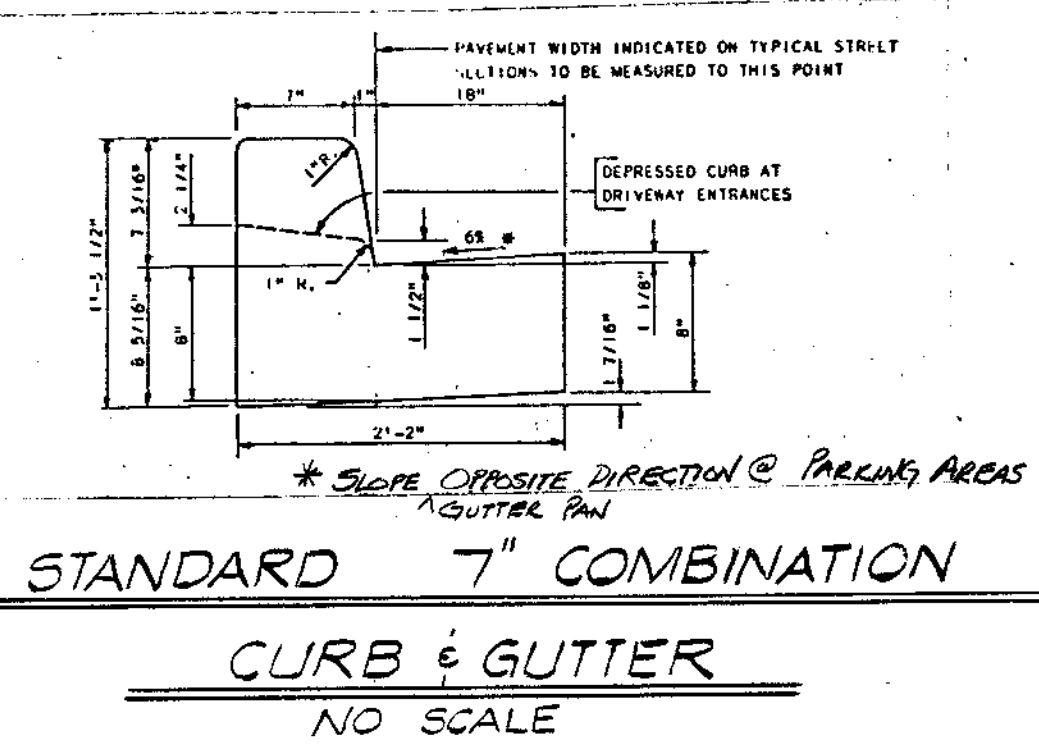
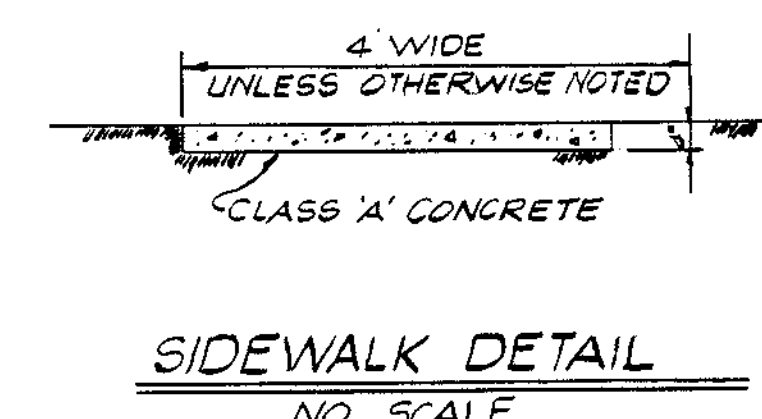
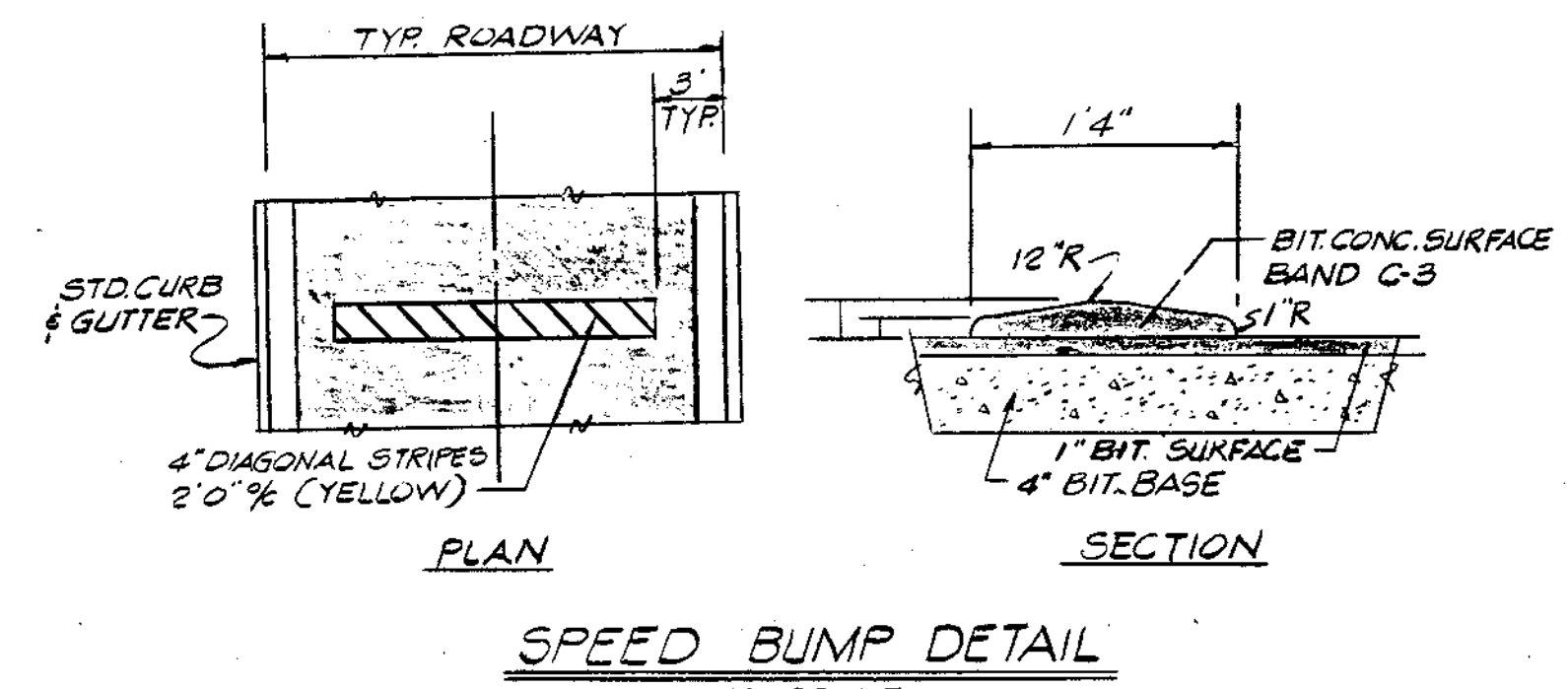
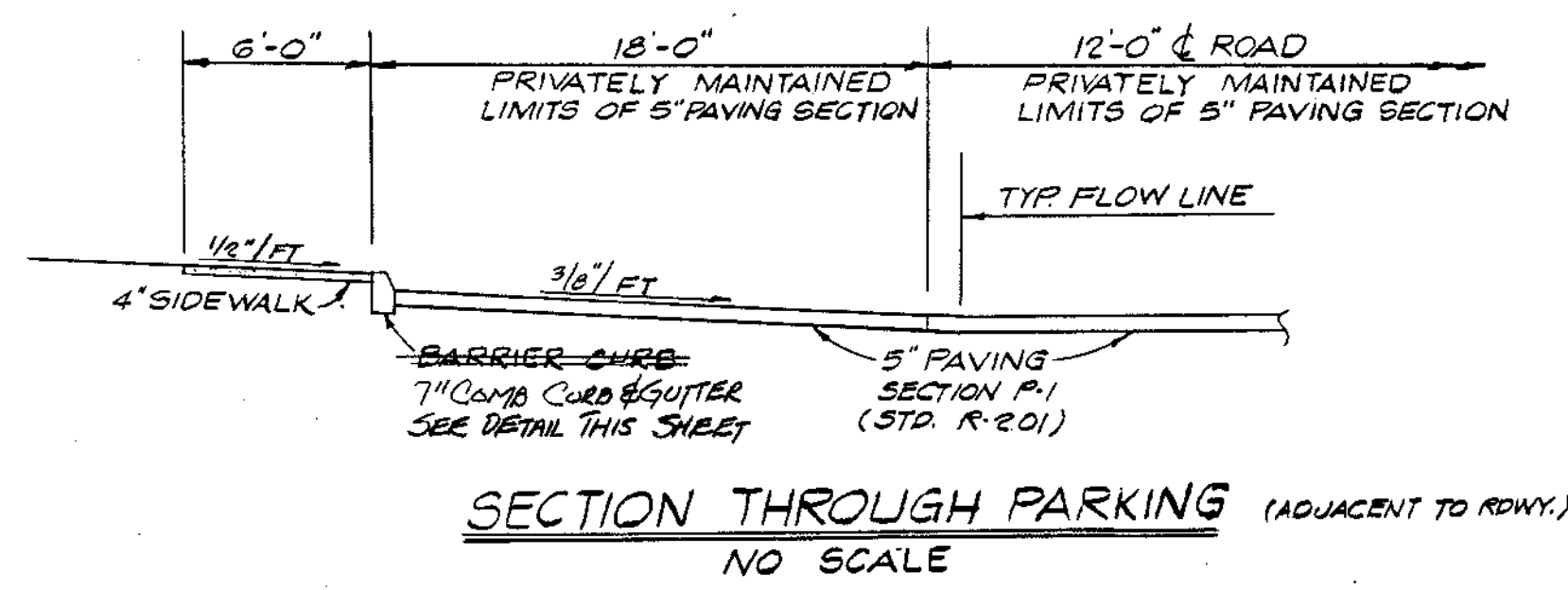
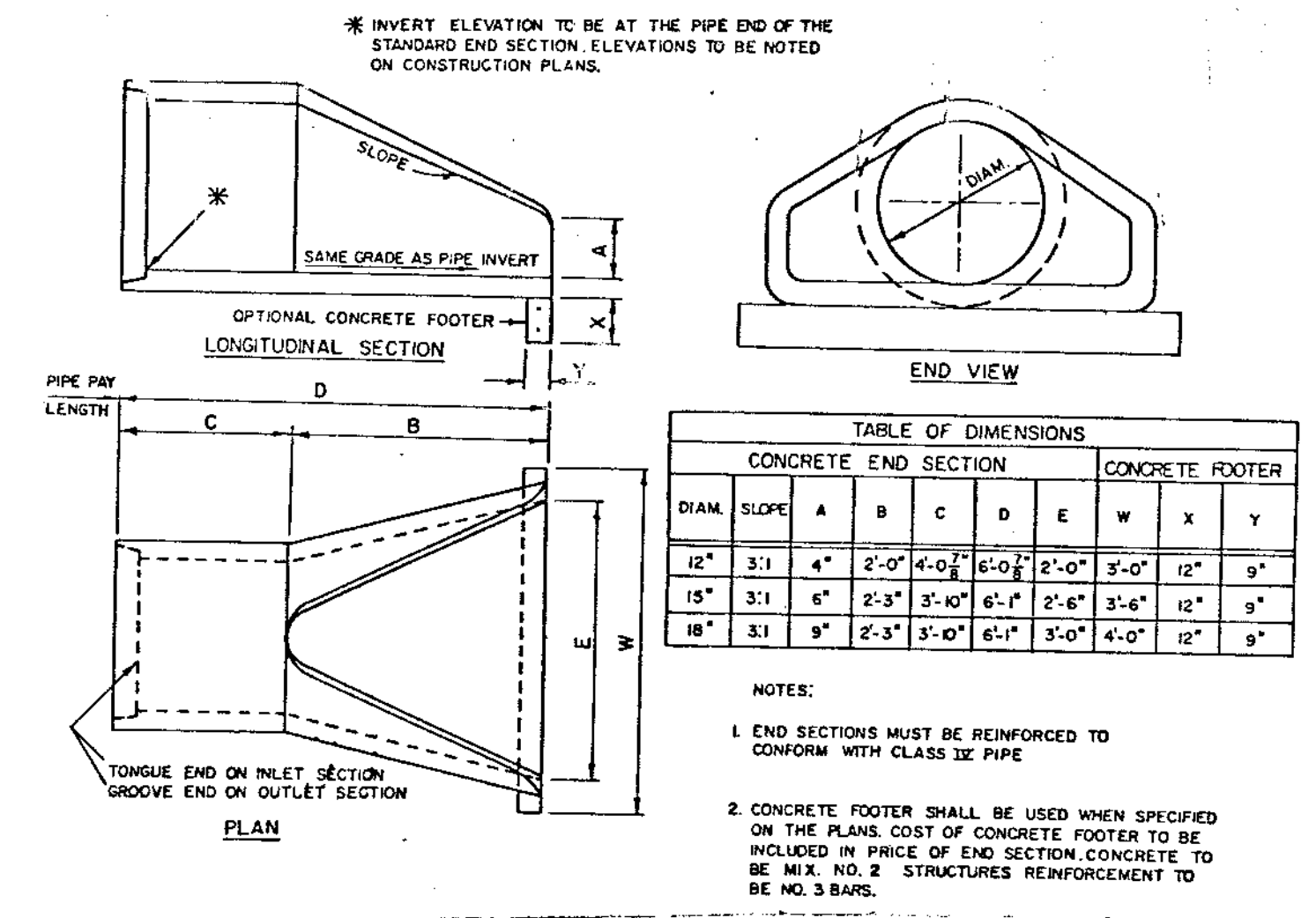
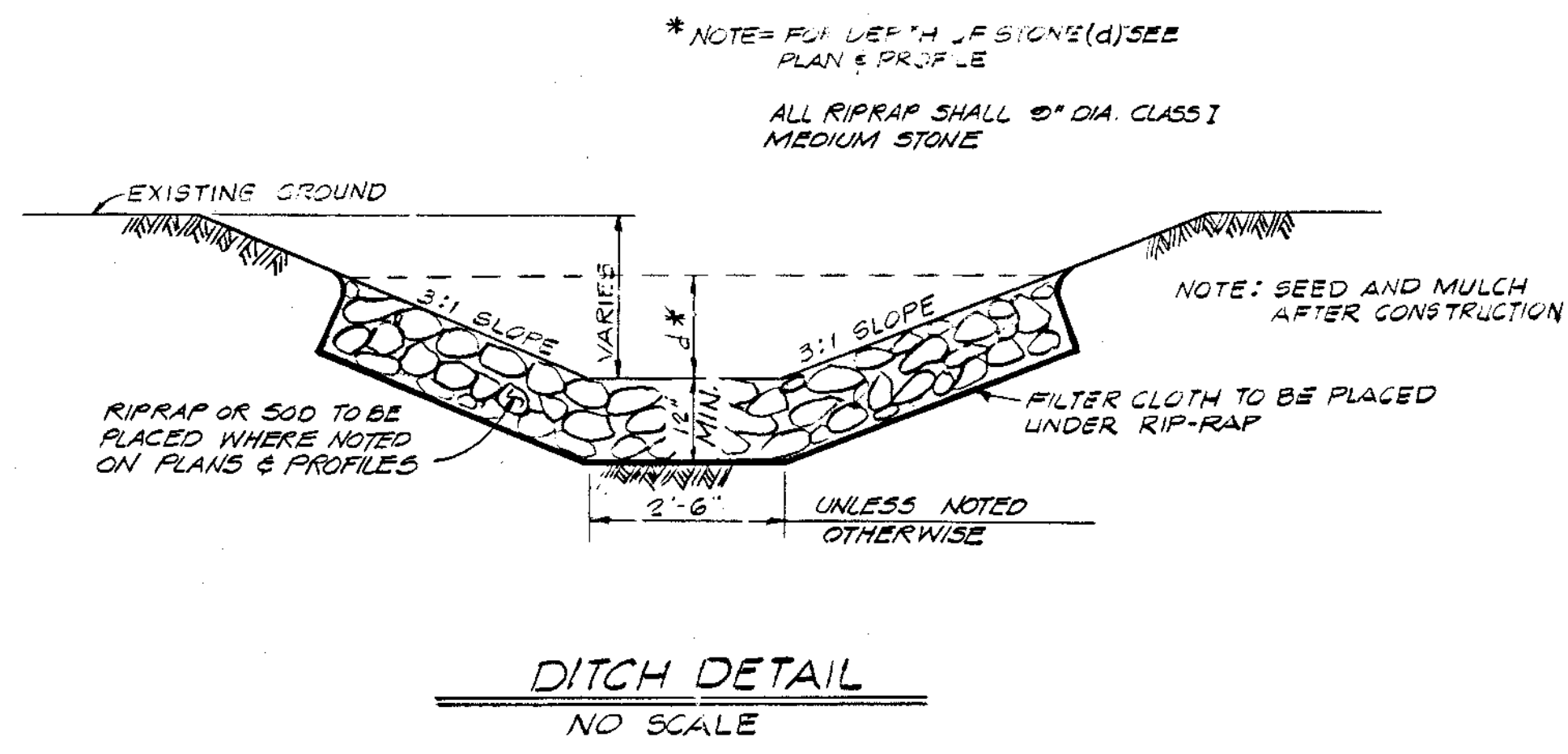
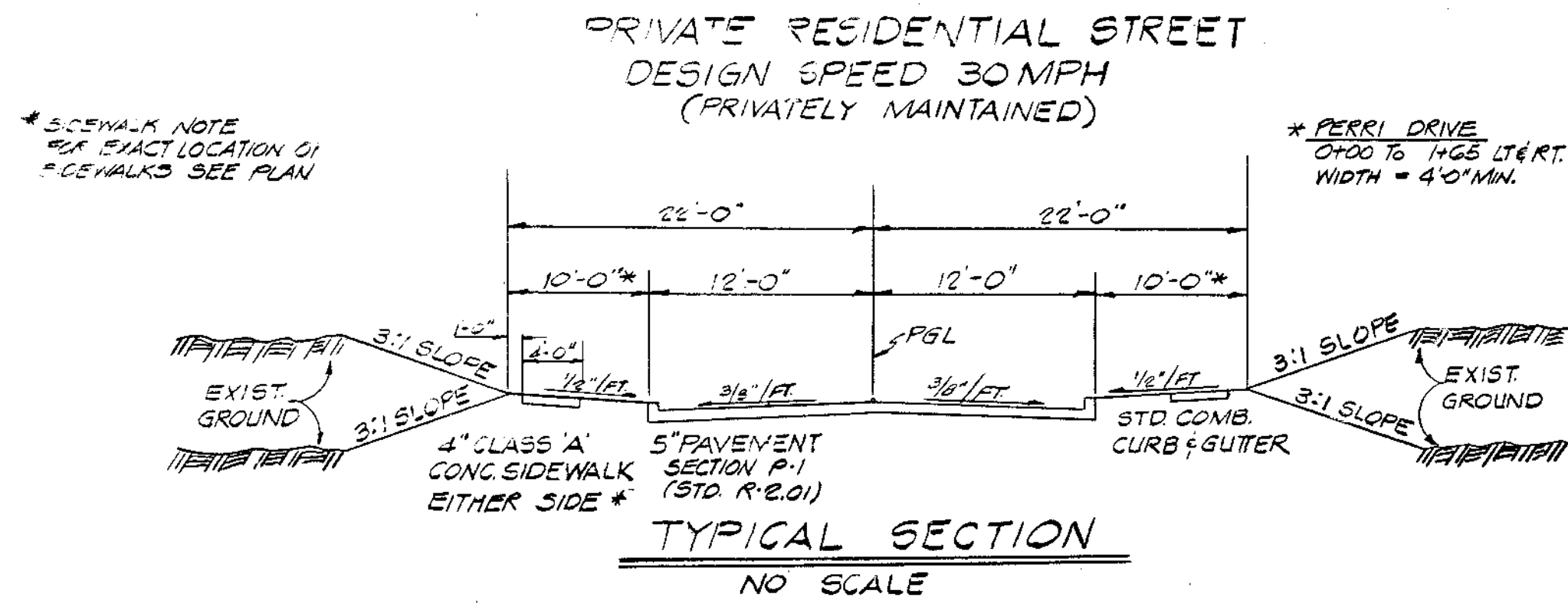
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>Thomas L. Arnold</i> 1-7-83 PLANNING DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>John M. Murchison</i> 1-7-83 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>George F. Nunn</i> 1-7-83 DIRECTOR DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>W. S. Ray</i> 1-6-83 CHIEF, BUREAU OF ENGINEERING DATE

02-7-82	1	REVISED PER COUNTY COMMENTS
10-1-82	2	REVISED PER COUNTY COMMENTS

DATE	NO.	REVISION DESCRIPTION
OWNER:		
DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP 8080 BALTIMORE STREET SAVAGE, MARYLAND 20860		
PROJECT: SECTION 5 PARCELS A,B,C HOWARD HILLS		
AREA: SAVAGE, MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MD.		
TITLE: WATER MAIN PROFILES SITE DETAILS		

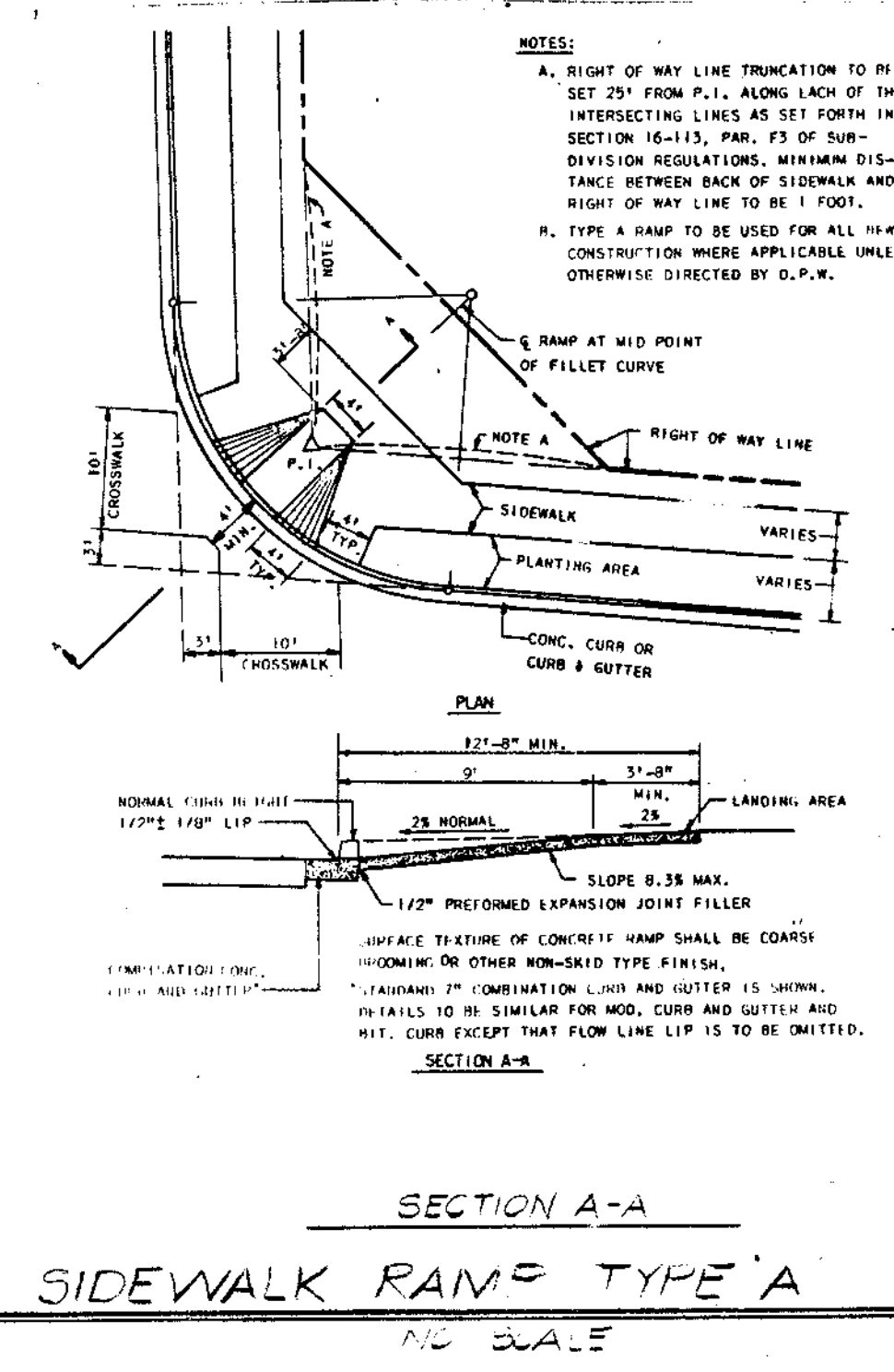
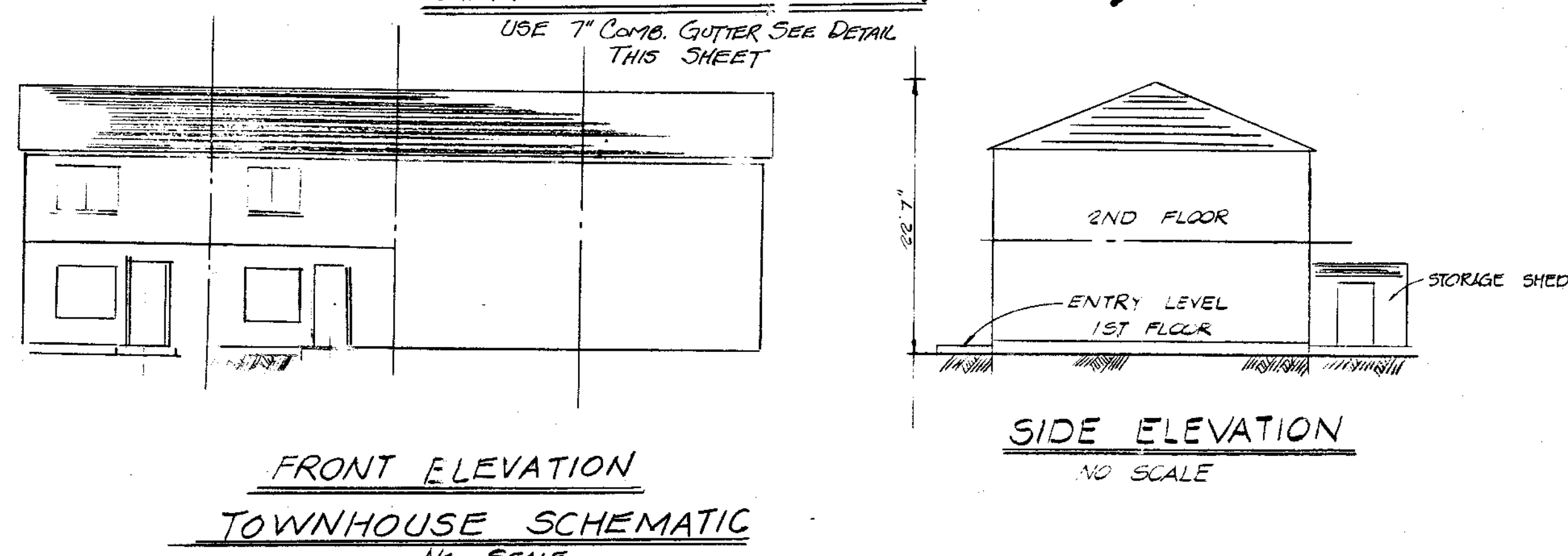
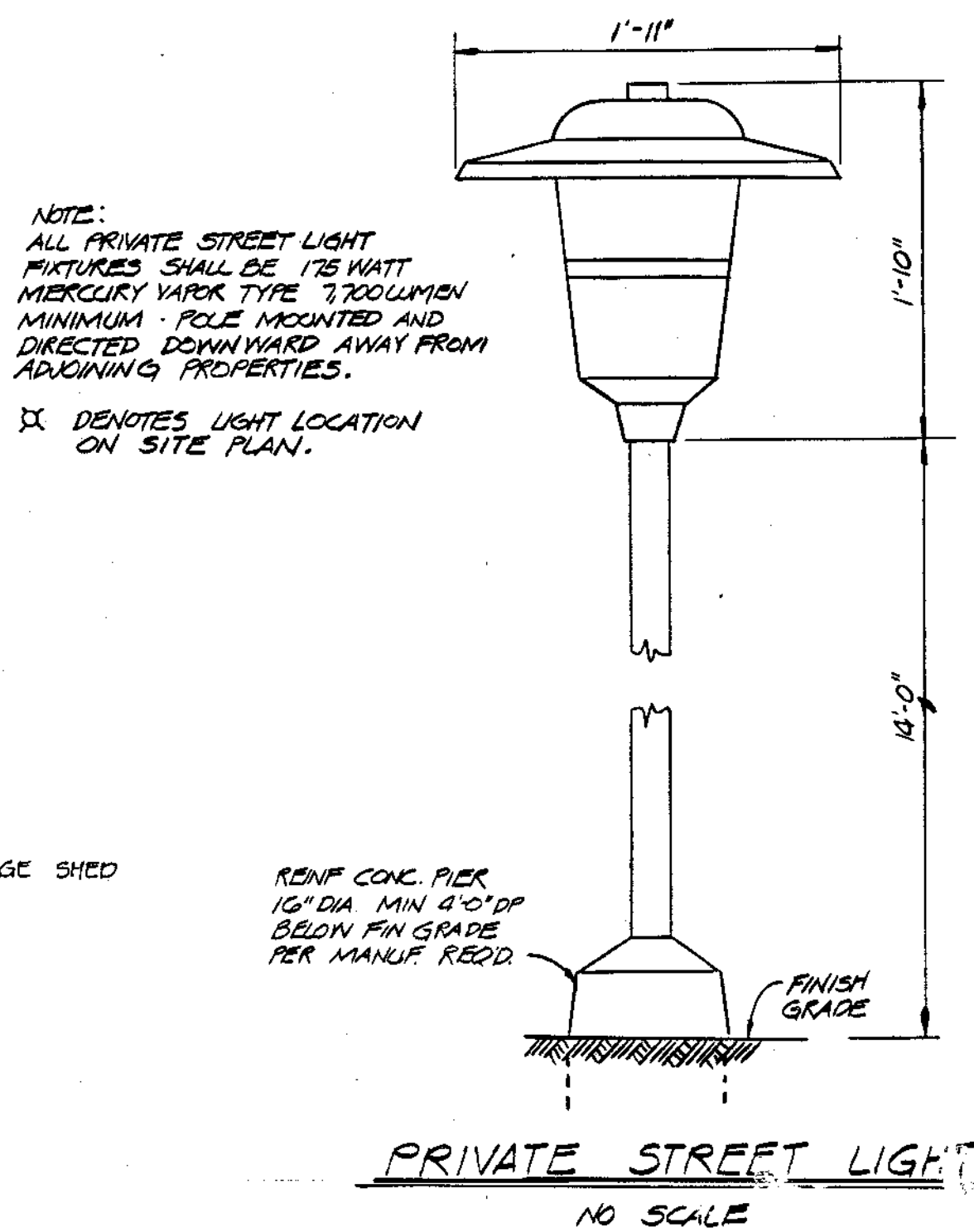
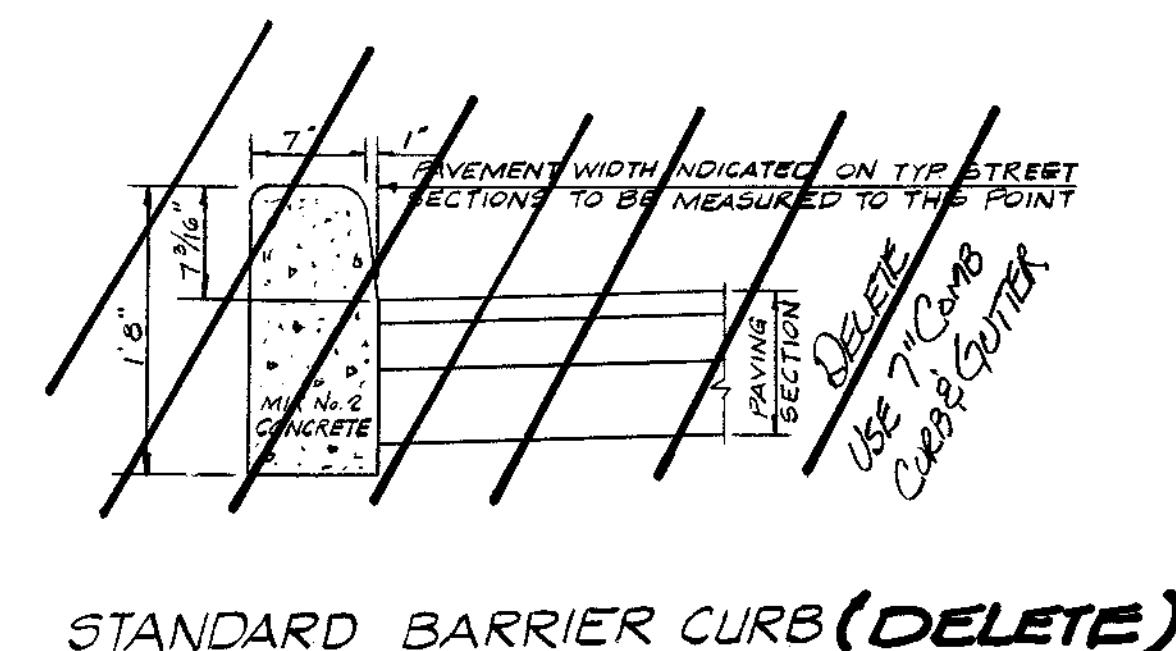
**TYDINGS HEIM ASSOCIATES INC.**  
 CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0680

<i>Charles R. Cochran</i> DATE	TAX MAP 67 PARCEL 403
DESIGNED BY: C.R.C.	
DRAWN BY: MD/CRC	
PROJECT NO: 700	
DATE: FEB. 15 1984	
SCALE: AS SHOWN	
PROFESSIONAL ENGR. NO. 72	DRAWING NO. 02 OF 12



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAYMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATE
P-1	PARKING AREAS AND TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE PRIME OR 3" OVERSIZED RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE

**TYPICAL PAVING SECTION  
NO SCALE**



**APPROVED**  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE **10-7-82**

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

*Director* 1-7-83 Date

*Chief, Bureau of Engineering* 1-6-83 Date

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

*County Health Officer* 1-7-83 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Planning Director* 1-7-83 Date

*Chief, Division of Land Development and Zoning Administration* 1-7-83 Date

DATE	NO.	REVISION DESCRIPTION
6-29-81	1	REVISED PER COUNTY COMMENTS
10-1-82	2	REVISED PER COUNTY COMMENTS

OWNER: HOWARD HILLS LTD. PARTNERSHIP  
8030 BALTIMORE STREET  
SAVAGE, MARYLAND 20863

PROJECT: SECTION 3 PARCELS A, B & C  
HOWARD HILLS

AREA: SAVAGE, MARYLAND  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MD.

TITLE: DETAILS



*Charles R. Leckner*  
12-27-82

**TYDINGS HEIM ASSOCIATES INC.**  
CONSULTING ENGINEERS, LAND & CONSTRUCTION SURVEYORS  
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

TAX MAP 47 PARCEL 493

DESIGNED BY: C.R.C.  
DRAWN BY: M.D.  
PROJECT NO: 790 E  
DATE: FEB 15, 1982  
SCALE: AS SHOWN  
DRAWING NO 2-12 OF 12

DELETE BARRIER CURB REV 7/27/83  
CHANGE TO 7" COMB. CURB & GUTTER (C.R.C.)

I. SITE PREPARATION

Areas under the borrow areas, embankment, and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, over-size 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 above the design elevation (including freeboard) as shown on the plans.

Placement

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

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 such that the required degree of compaction can be obtained with the equipment used.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

A. Reinforced Concrete Pipe

- Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are ANWA Specification C-300, 301, and 302.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its diameter with a minimum thickness of 3", or as shown on the drawings.
- 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 for 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.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawing.

B. For pipes of other materials, specific specifications shall be shown on the drawings.

V. CONCRETE

1. Materials

- Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.
- Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
- Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
- Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.
- Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U. S. gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.

3. Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

4. Forms - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

5. Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

6. Consolidating - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

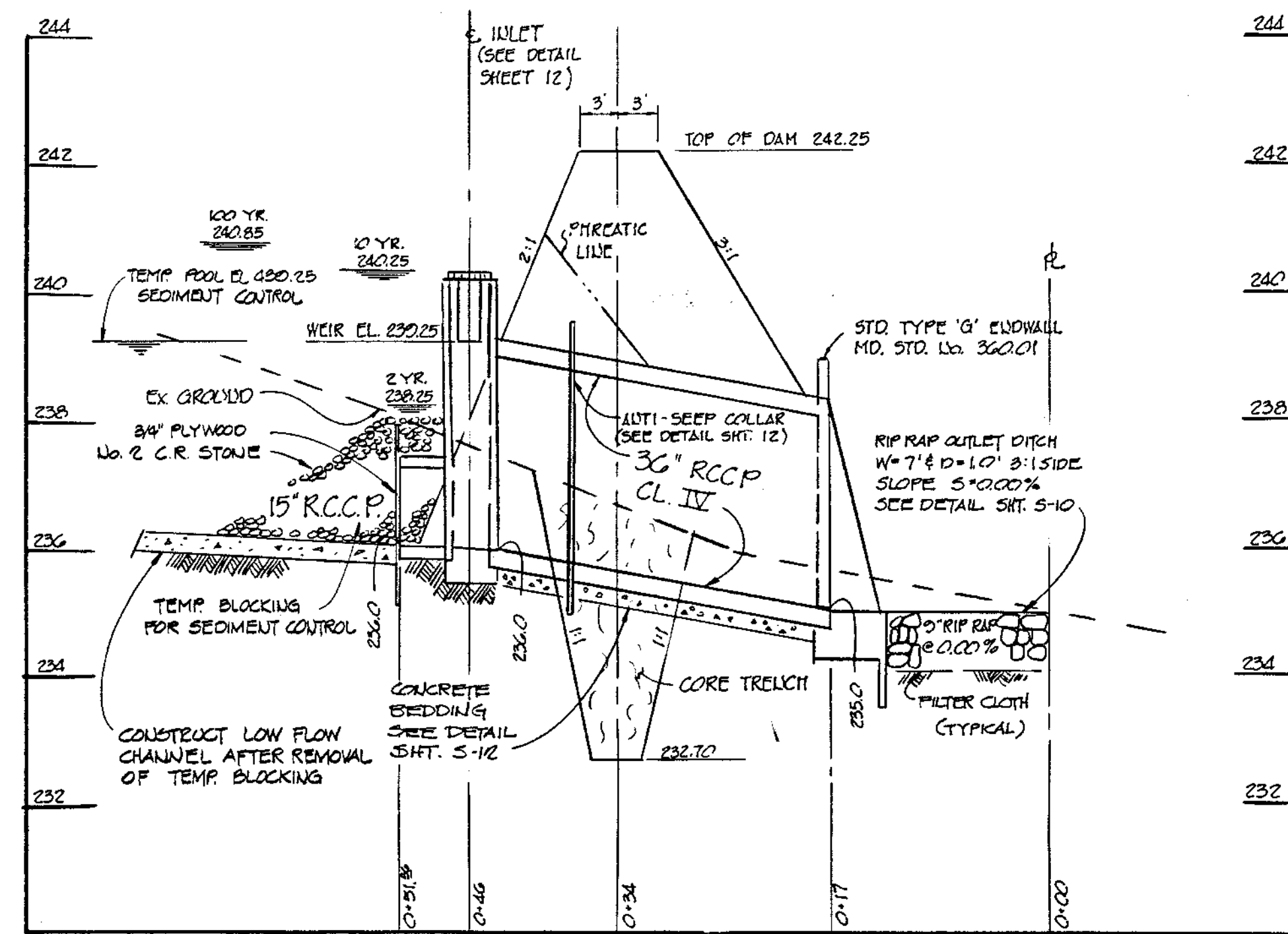
7. Finishing - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

8. Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

9. Placing Temperature - Concrete may not be placed at temperatures below 37° F with the temperature falling, or 34° with the temperature rising.

STABILIZATION

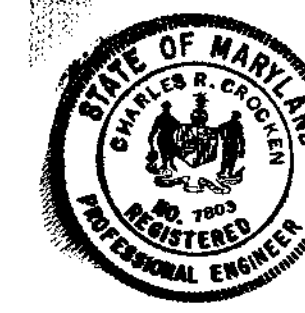
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying the drawings.



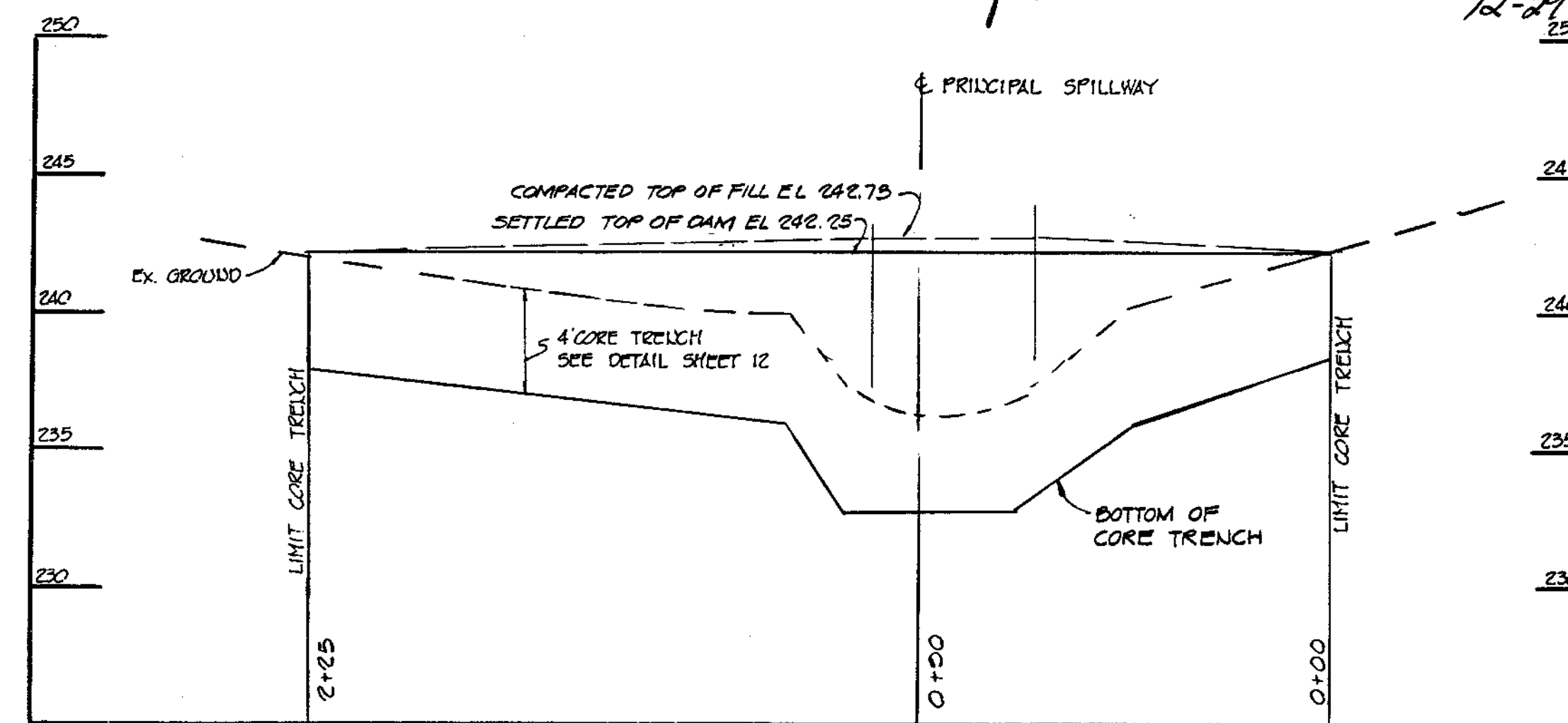
PROFILE EMBANKMENT POND 'A'

SCALE: HORIZ. 1"=10'  
VERT. 1"=2'

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82

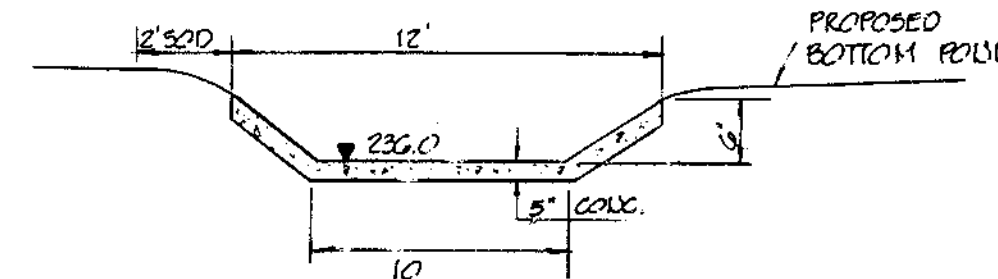


Charles R. Crocken  
12-29-82



PROFILE ALONG & DAM

SCALE: HORIZ. 1"=30'  
VERT. 1"=5'



LOW FLOW CHANNEL  
10' SCALE

NOTE:  
FOR ADDITIONAL INFORMATION  
SEE HO. CR. 514 SD-G12.

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

James M. Klein 12-30-82  
U.S. Soil Conservation Service Date

Robert J. Zichner 12-30-82  
Howard Soil Conservation District Date

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.

Steve Storch 12-29-82  
Date

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.

Charles R. Crocken 12-29-82  
Charles R. Crocken, P.E. Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas L. Smith 1-7-83  
PLANNING DIRECTOR DATE

John W. Mahan 1-7-83  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

Supra 1-7-83  
COUNTY HEALTH OFFICER DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John F. Nummy 1-7-83  
DIRECTOR DATE

John F. Nummy 1-6-83  
CHIEF, BUREAU OF ENGINEERING DATE

10-1-82 2 REVISED PER CO COMMENTS

6-20-82 1 REVISED PER COUNTY COMMENTS

DATE NO. REVISION DESCRIPTION

OWNER:

DEVELOPER: HOWARD HILLS LTD PARTNERSHIP

OWNER: 0800 BALTIMORE STREET

SAVAGE, MARYLAND 20865

PROJECT: SECTION 3 PARCELS A,B,C

HOWARD HILLS

AREA: SAVAGE, MARYLAND

SIXTH ELECTION DISTRICT

HOWARD COUNTY, MD.

TITLE: STORM WATER MANAGEMENT

NOTES and DETAILS

TYDINGS HEIM ASSOCIATES INC.

CONSULTING ENGINEERS-LAND & CONSTRUCTION SURVEYORS

8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

TAX MAP 47 PARCEL

DESIGNED BY: R.J. I.C.R.C.

DRAWN BY: CRC

PROJECT NO: 790

DATE: FEB 15 1982

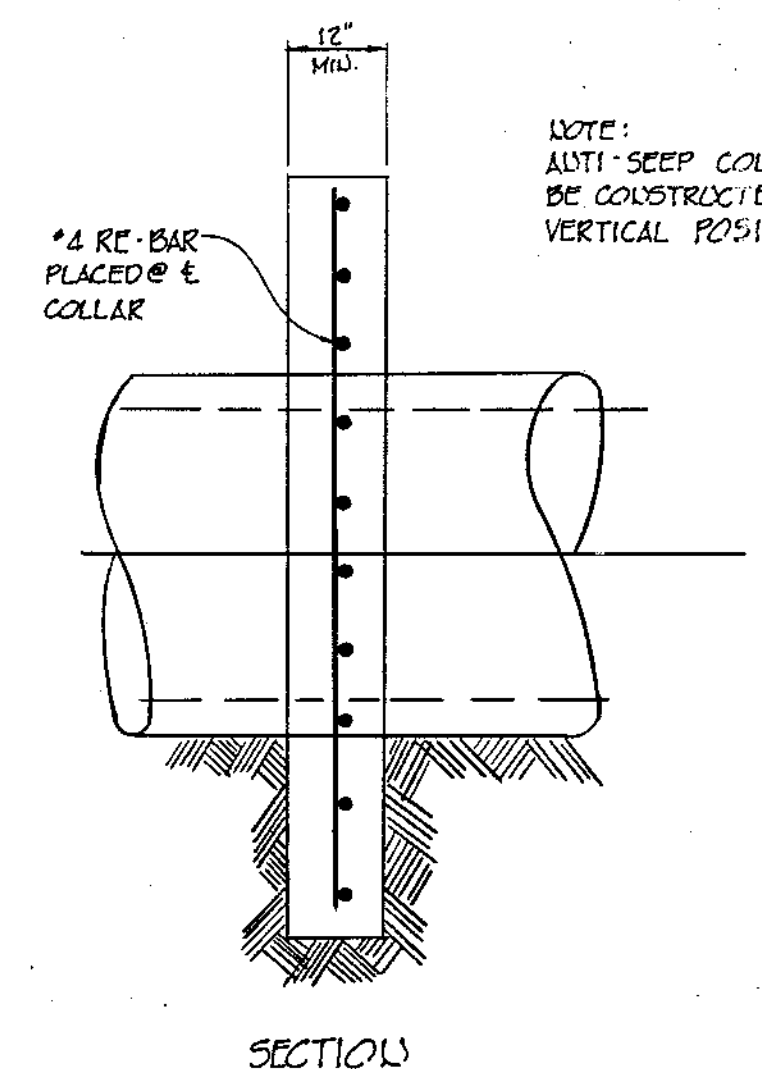
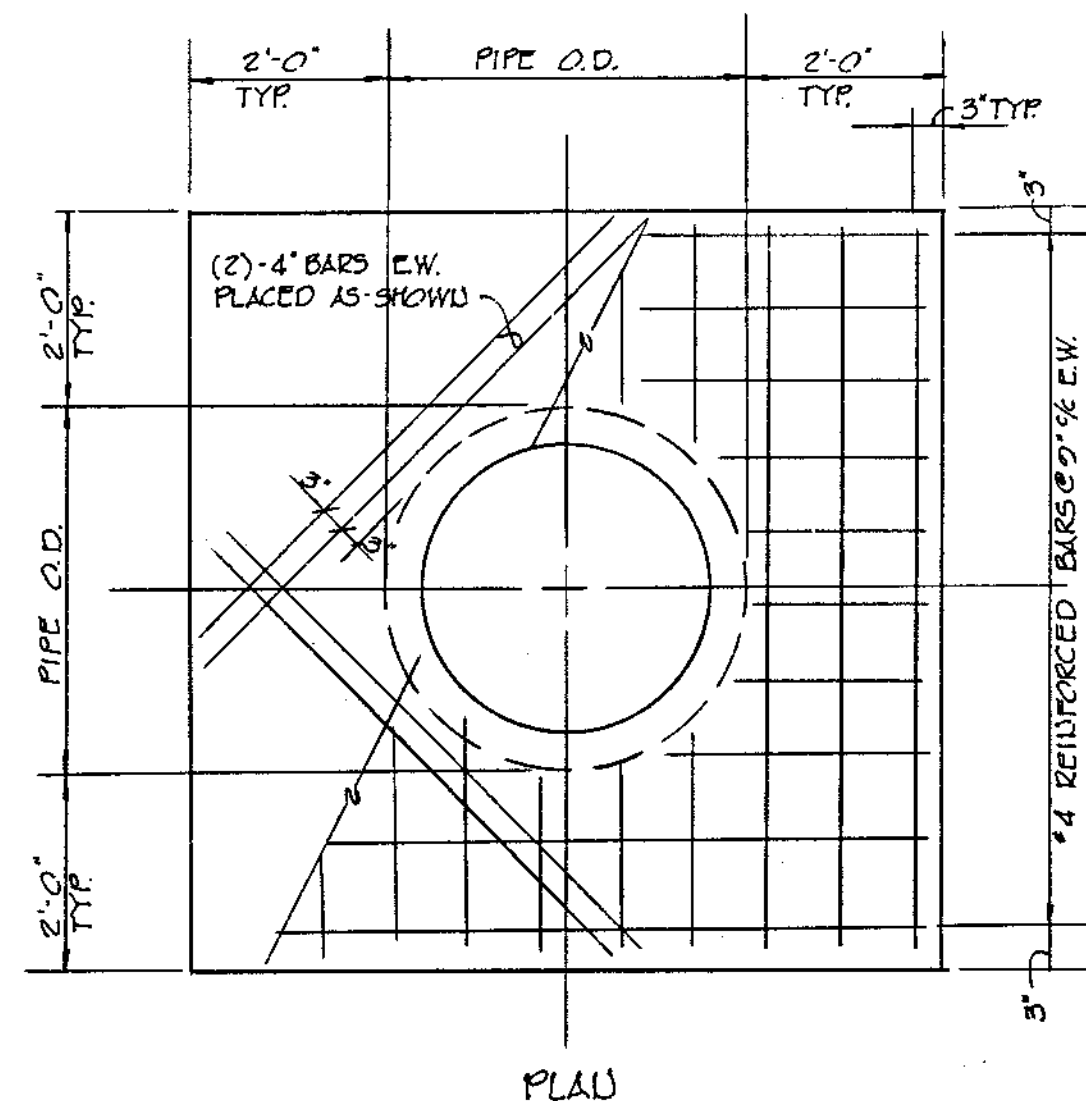
SCALE: AS SHOWN

DRAWING NO 211 OF 15

STATE OF MARYLAND PROFESSIONAL ENGR. NO. 783

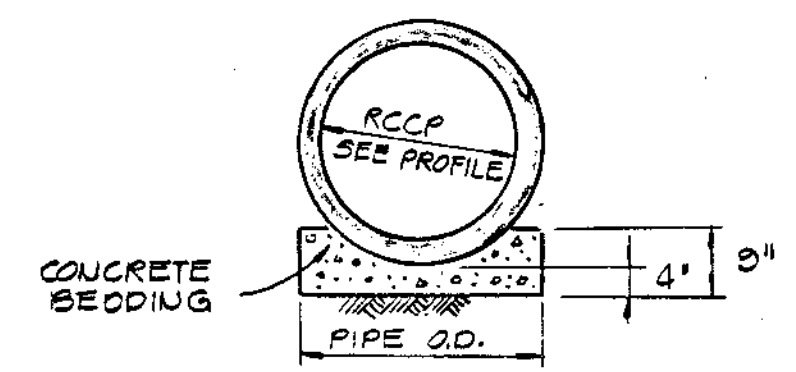
DATE

PROFESSIONAL ENGR. NO. 783



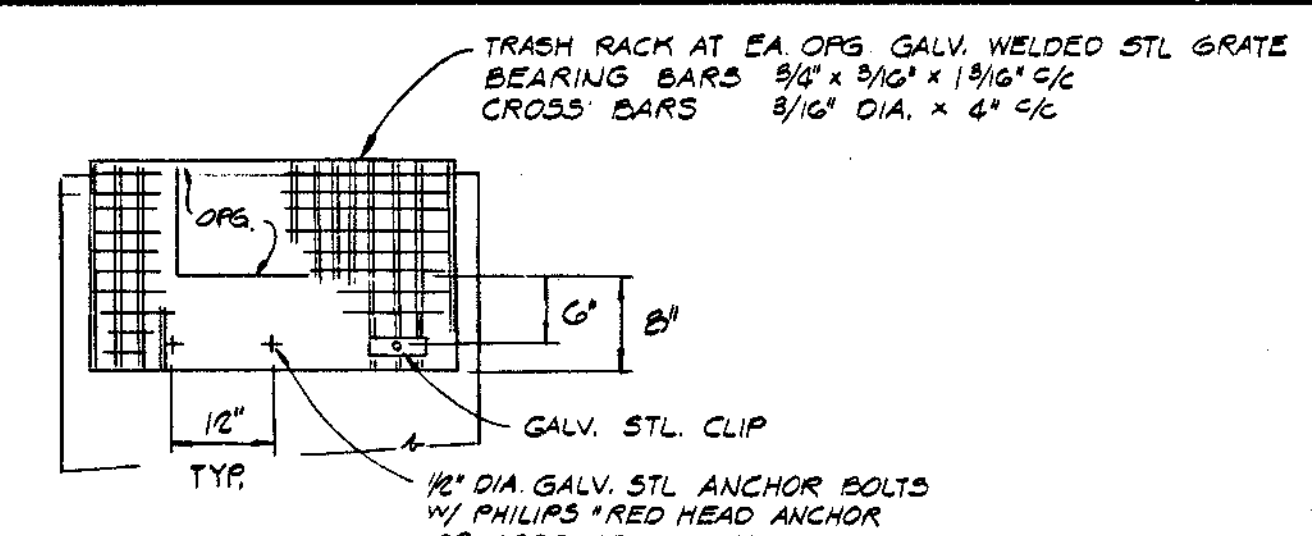
**DETAIL ANTI-SEEP COLLAR**

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



**PIPE BEDDING DETAIL**

NOT TO SCALE



**TRASH RACK DETAIL**

NOT TO SCALE

STORM WATER MANAGEMENT DATA						
POND	FREQUENCY	PEAK FLOW	RELEASE RATE	STORAGE REQ'D	STORAGE PROVIDED	PEAK EL.
	POND 'A'	2-YEAR	12.4 cfs	8.9 cfs	0.19 Ac. Ft.	0.26 Ac. Ft.
10-YEAR		42.7 cfs	34.0 cfs	0.34 Ac. Ft.	0.71 Ac. Ft.	240.25
100-YEAR		74.8 cfs	63.1 cfs	0.83 Ac. Ft.	0.81 Ac. Ft.	240.85
POND 'B'	2-YEAR	3.0 cfs	2.6 cfs	0.07 Ac. Ft.	0.10 Ac. Ft.	231.00
	10-YEAR	20.6 cfs	17.0 cfs	0.29 Ac. Ft.	0.42 Ac. Ft.	235.00
	100-YEAR	40.0 cfs	33.8 cfs	0.44 Ac. Ft.	0.57 Ac. Ft.	238.70

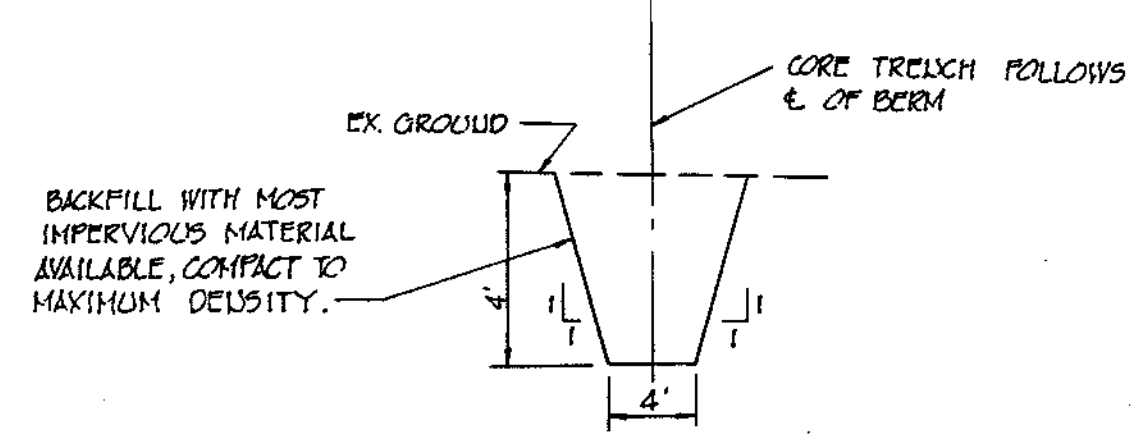
**SEDIMENT CONTROL DATA**

	POND 'A'	POND 'B'
DRAINAGE AREA	13.76 Ac.	12.15 Ac.
VOLUME STORAGE REQ'D	1056 Cu. Yd.	813 Cu. Yd.
VOLUME STORAGE PROVIDED	1056 Cu. Yd.	813 Cu. Yd.
CLEAN-OUT ELEVATION	238.10	231.70

**APPROVED**  
**DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION**  
**HOWARD COUNTY, MARYLAND**  
**DATE 10-7-82**

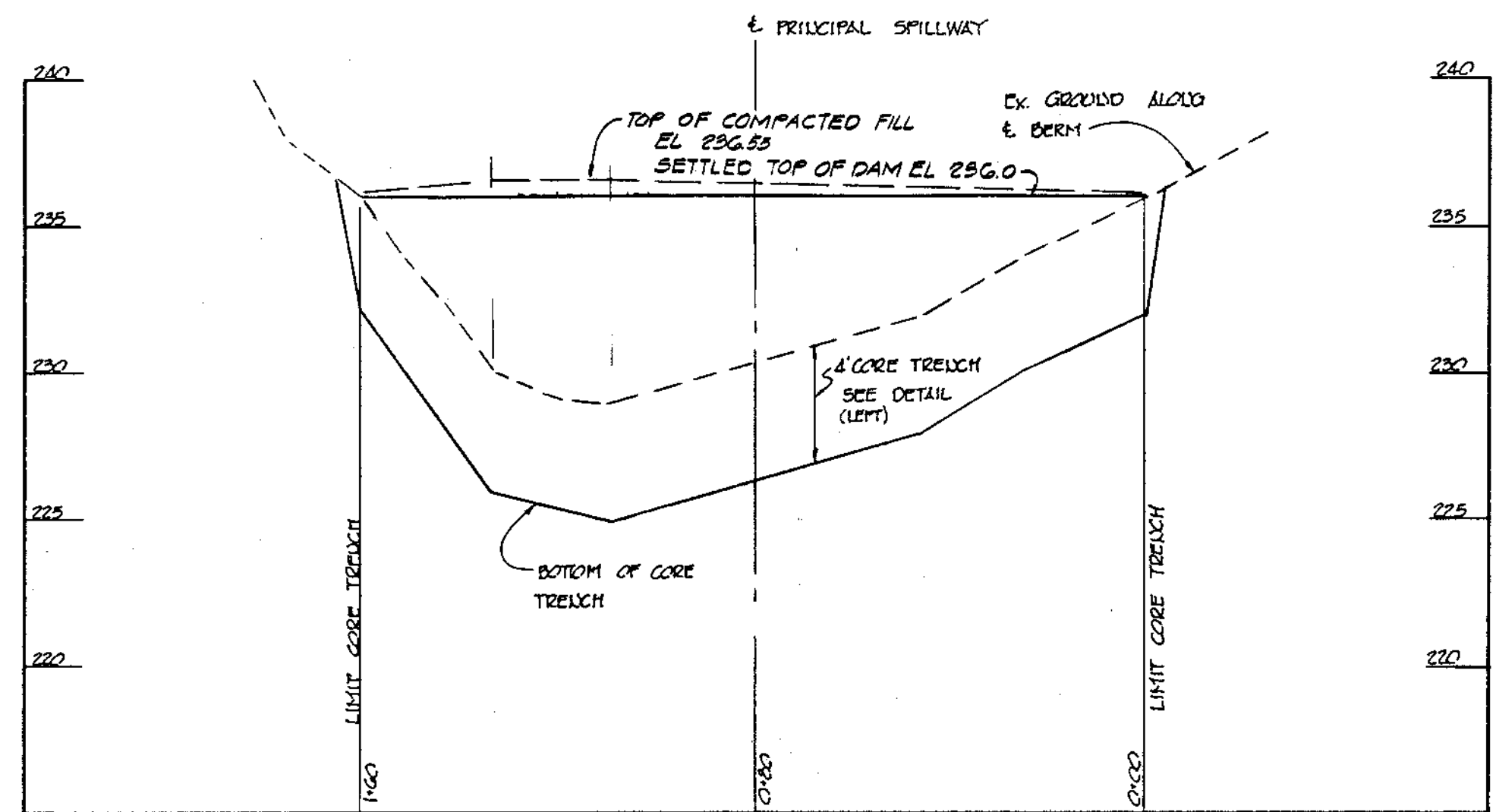
**POND NOTES**

- All work shall be performed in accordance with the "Storm Water Management Pond Design Manual, Maryland Association of Soil Conservation District," construction specifications and these plans.
- The pond shall function initially as a sediment basin. The pond shall be constructed prior to any construction work with the drainage area.
- Borrow fill for construction of the earth embankment may be taken from roadway cut sections.
- Embankment shall be compacted to at least 95% of the optimum density.
- Pond Restoration:** Refurbishing of the ponds shall be done after all construction is completed and grass is established within the pond drainage areas. Refurbishing of the ponds shall include the removal of all sediment; the restoration of the ponds to the lines and grades as shown on the plans; the replacement of all filter cloth and rip rap stone where necessary; removal of temporary block at inlet section; permanent reseeded of all the disturbed graded surfaces and the cleaning of the principal spillways and outfall ditches. The removed sediment shall be placed at an approved site, protected by standard sediment control provision. The disposition of sediment shall be approved by the Howard Soil Conservation District.
- After the ponds are completely refurbished the owner shall submit "As-Built" drawings to the Howard County Soil Conservation District.
- Inlet to riser shall be temporarily blocked. Initial permanent seeding shall be applied to all cut and fill embankments from toe to top of slope and top elevation of the earth dam construction. The invert of the pond shall be permanently seeded after the ponds are refurbished. Rip rap within the pond is to be placed during refurbishing.



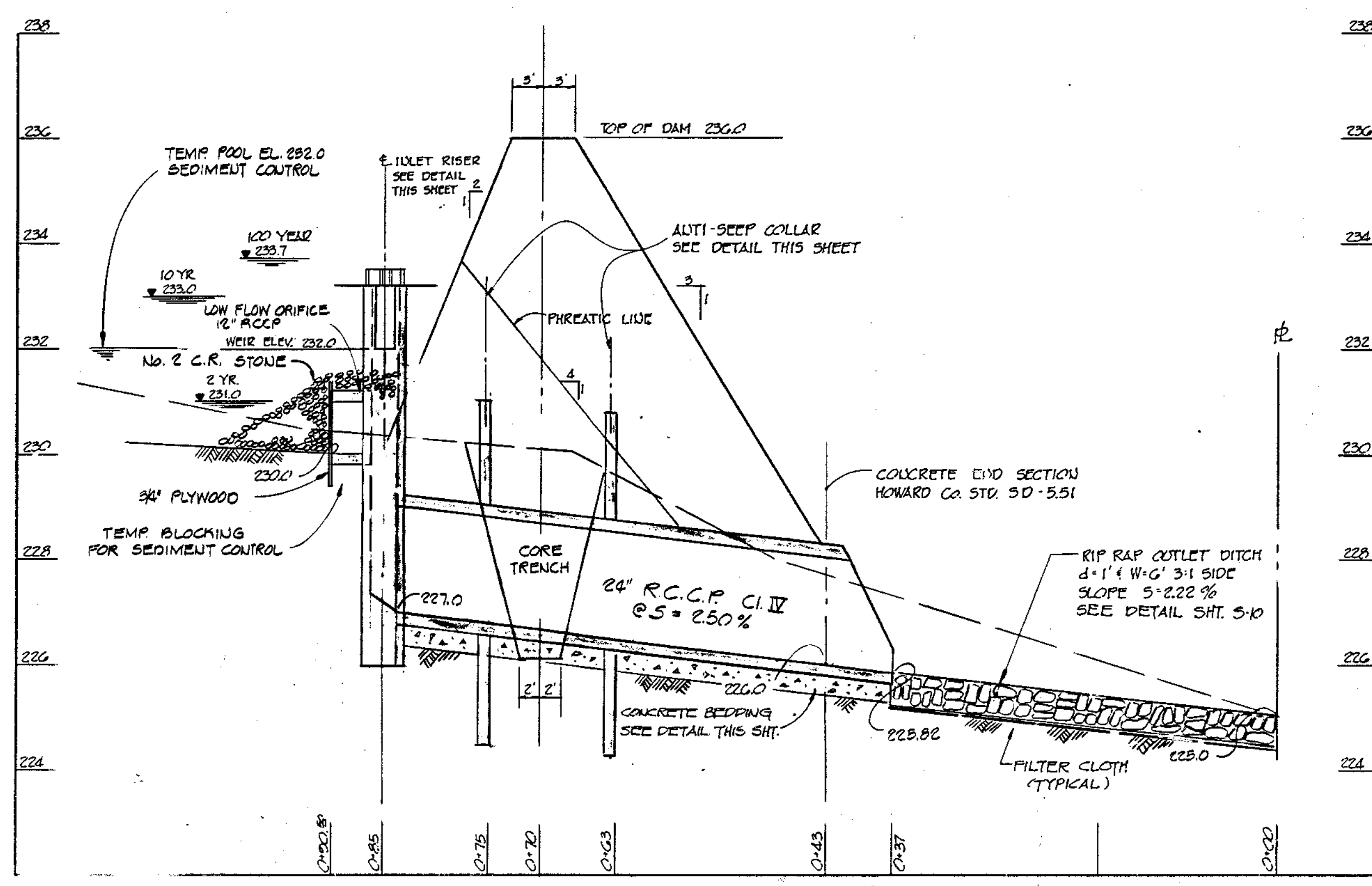
**CORE TRENCH DETAIL**

1/2" SCALE



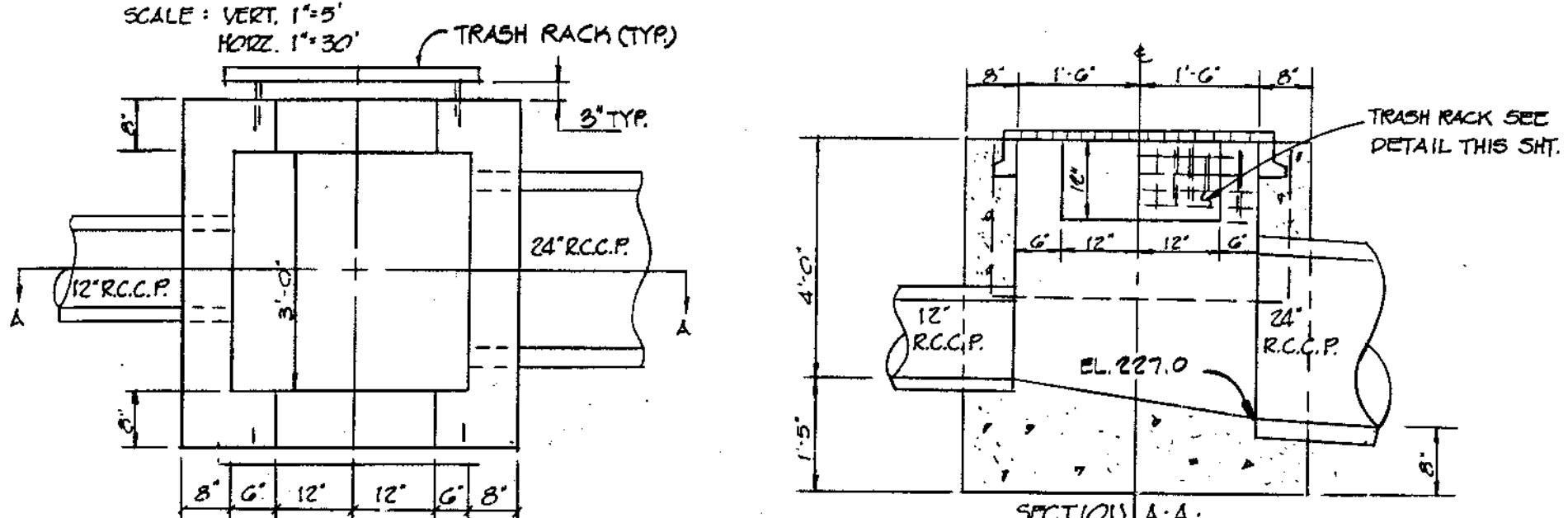
**PROFILE ALONG E. DAM - POND 'B'**

SCALE: VERT. 1" = 5' HORIZ. 1" = 30'

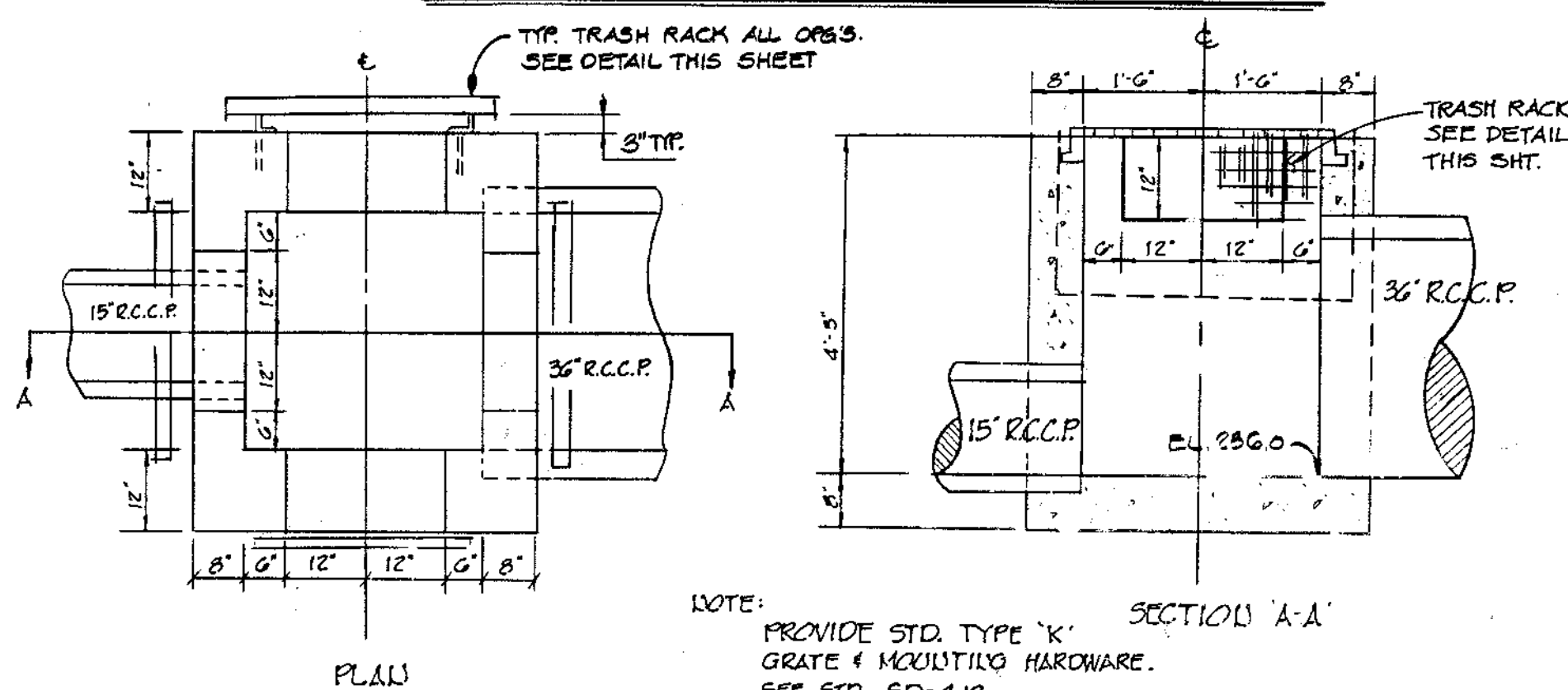


**PROFILE EMBANKMENT POND 'B'**

SCALE: VERT. 1" = 5' HORIZ. 1" = 30'



**PRINCIPAL SPILLWAY DETAIL POND 'B'**



**PRINCIPAL SPILLWAY DETAIL POND 'A'**

NOTE: PROVIDE STD. TYPE 'K' GRATE & MOUNTING HARDWARE. SEE STD. SD-4.13

**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.

Steve Storch 12-29-82 Date

**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.

Charles R. Crocken, P.E. 12-29-82 Date

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

James M. Selby 12-30-82 Date  
 U.S. Soil Conservation Service

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

Robert W. Ziehm 12-30-82 Date  
 Howard Soil Conservation District



Charles R. Crocken 12-29-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas J. Harig 1-7-83  
 PLANNING DIRECTOR DATE

Shirley M. Harig 1-7-83  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

James M. Selby 1-7-83  
 COUNTY HEALTH OFFICER DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Shirley F. Nunn 1-7-83  
 DIRECTOR DATE

Charles R. Crocken 1-6-83  
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION DESCRIPTION
10-1-82	2	REVISED PER COUNTY COMMENTS
6-20-82	1	REVISED PER COUNTY COMMENTS

OWNER: Steve Storch 12-29-82 Date

DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP  
 2030 BALTIMORE STREET  
 SAVAGE, MARYLAND 20863

PROJECT: **HOWARD HILLS**  
 SECTION III PARCELS A, B, & C

AREA: SAVAGE, MARYLAND  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MD.

TITLE: **STORM WATER MANAGEMENT DETAILS**



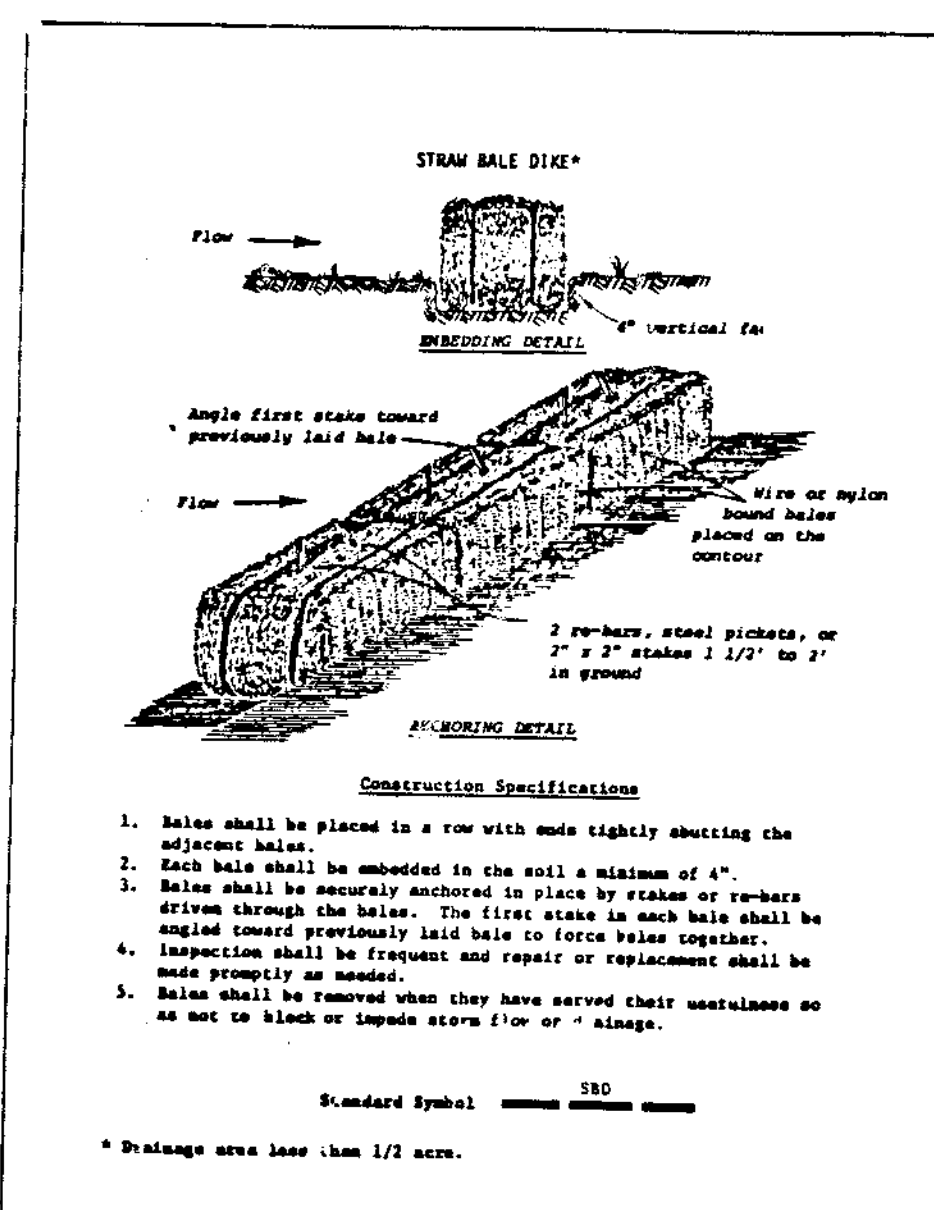
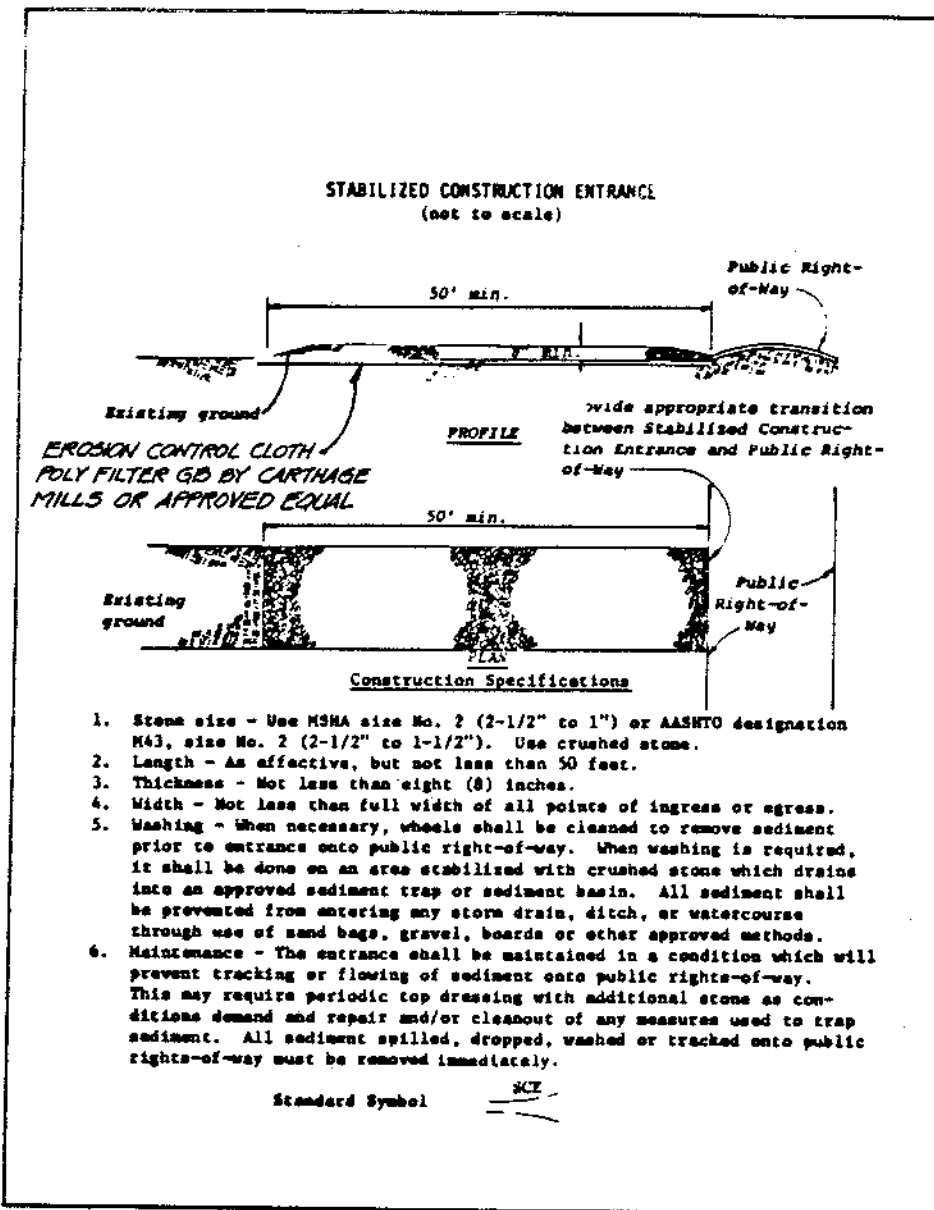
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

March 22, 1982 DATE

DESIGNED BY: C.R.C.

DRAWN BY: T.A.P.

PROJECT NO: 790 E  
 DATE: FEB. 15, 1982  
 SCALE: AS SHOWN  
 DRAWING NO. 212 OF 12

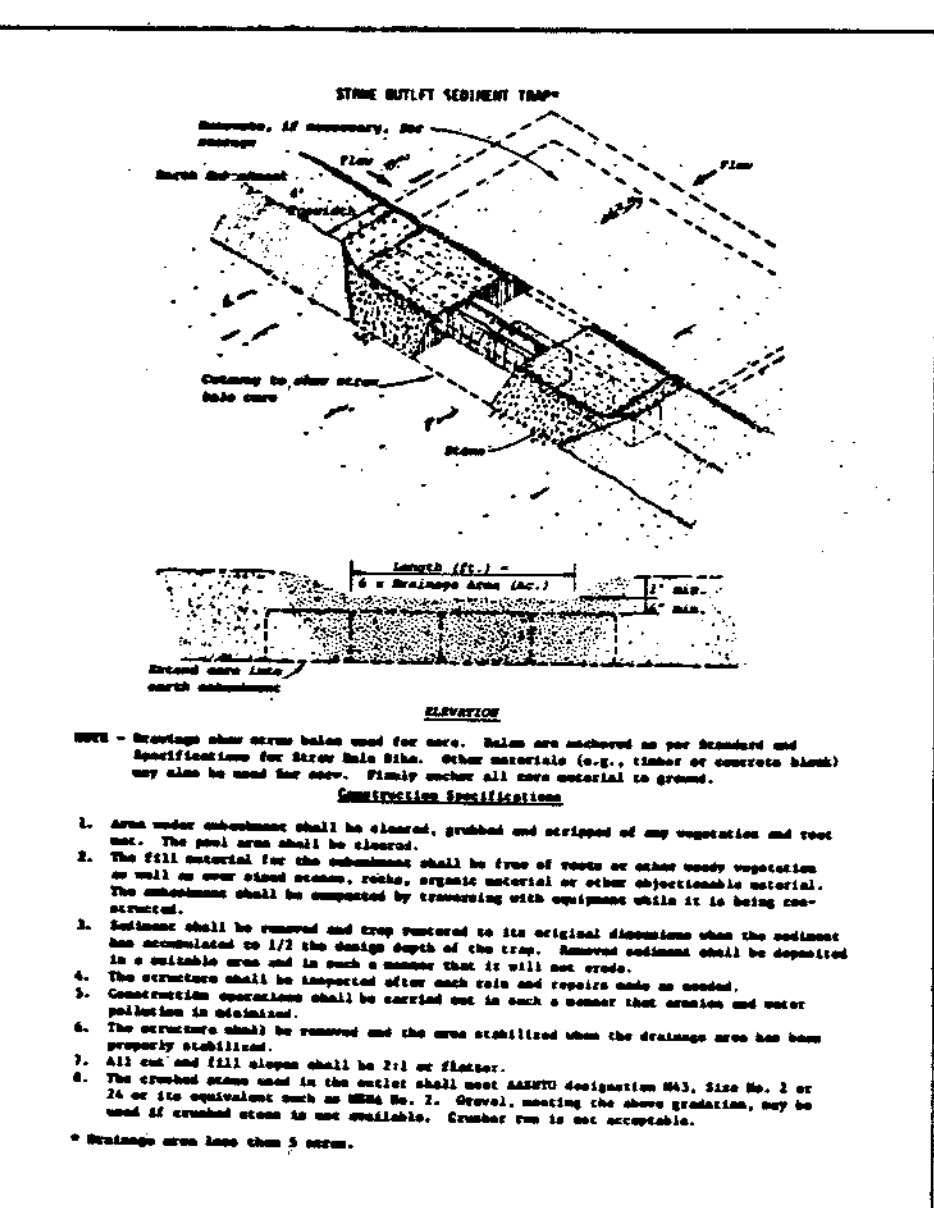
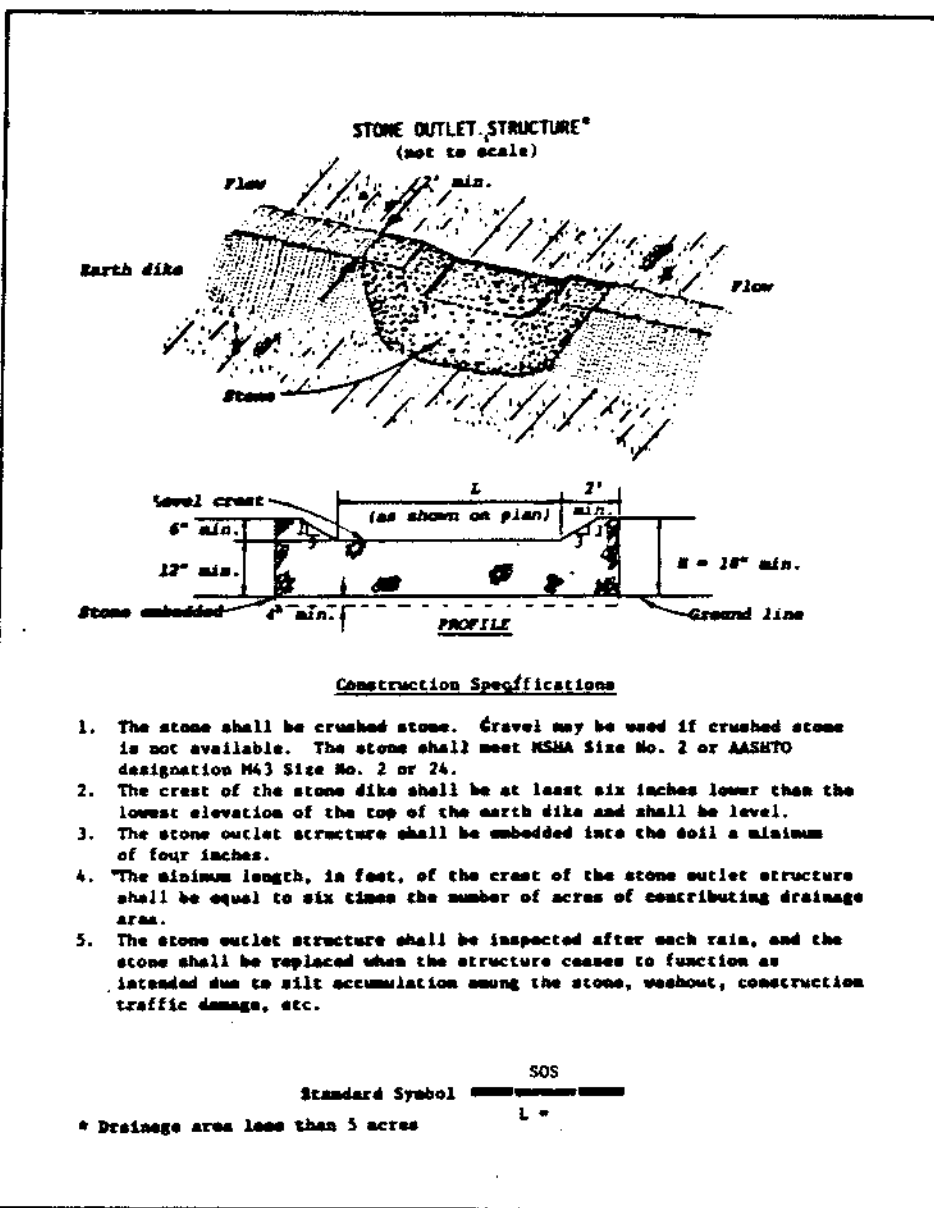


**SEDIMENT CONTROL CONSTRUCTION NOTES**  
**GENERAL NOTES**

1. A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2070)
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
3. SITE GRADINGS WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAP WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
7. 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.
8. REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".

1. OBTAIN GRADING PERMIT.
  2. INSTALL STABILIZED STONE CONSTRUCTION ENTRANCE.
  3. CLEAR AND GRUB AREAS FOR INSTALLATION OF SEDIMENT CONTROL DEVICES INCLUDING STORM WATER MANAGEMENT PONDS AND PERMANENT DIVERSION DIKES.
  4. INSTALL SEDIMENT CONTROL DEVICES INCLUDING:
    - (a) TEMPORARY AND PERMANENT DIVERSION DIKES
    - (b) STONE OUTLET STRUCTURE WITH SEDIMENT TRAP AT EXISTING INLET (SEE SHEET S-4).
    - (c) STORM WATER MANAGEMENT PONDS WITH TEMPORARY BLOCKING IN RISER FOR SEDIMENT CONTROL, STABILIZE PER TEMPORARY SEEDING NOTES.
  5. GRADE SITE AS PER PLANS MAINTAINING POSITIVE DRAINAGE AT ALL TIMES, STABILIZE IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES.
  6. UPON APPROVAL OF HOWARD SOIL CONSERVATION DISTRICT REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES. PERMANENT DIVERSION DIKES SHALL NOT BE REMOVED.
  7. PONDS "A" AND "B" SHALL BE CONVERTED TO STORM WATER MANAGEMENT AS INDICATED ON THE PLANS.
  8. THE STONE OUTLET STRUCTURE AND SEDIMENT TRAP SHOWN ON SHEET S-4 SHALL BE REMOVED AND THE AREA GRADED TO FINAL GRADES AND STABILIZED PER FINAL SEEDING NOTES.
- NOTE: NO STORM DRAINS OTHER THAN THE STORM WATER MANAGEMENT POND SPILLWAY SHALL BE INSTALLED UNDER THIS PERMIT.
- INLET FILTERS SHALL BE INSTALLED WHEN THE STORM DRAINS ARE CONSTRUCTED AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82  
*J. Smith*

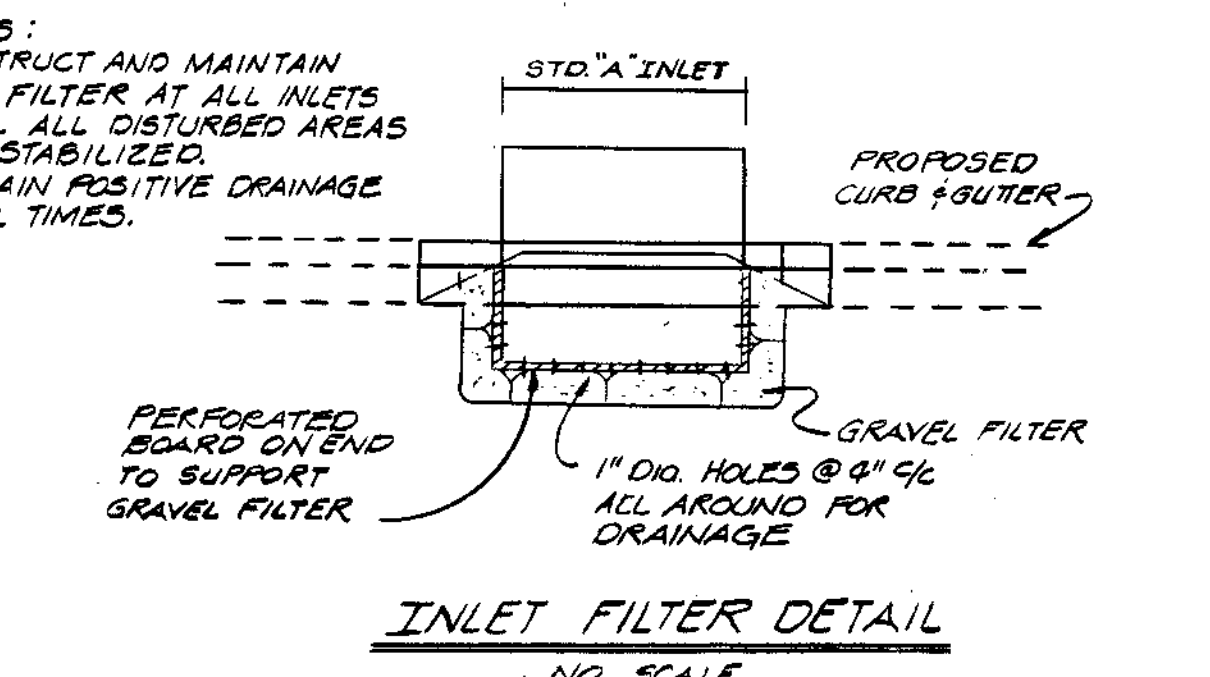
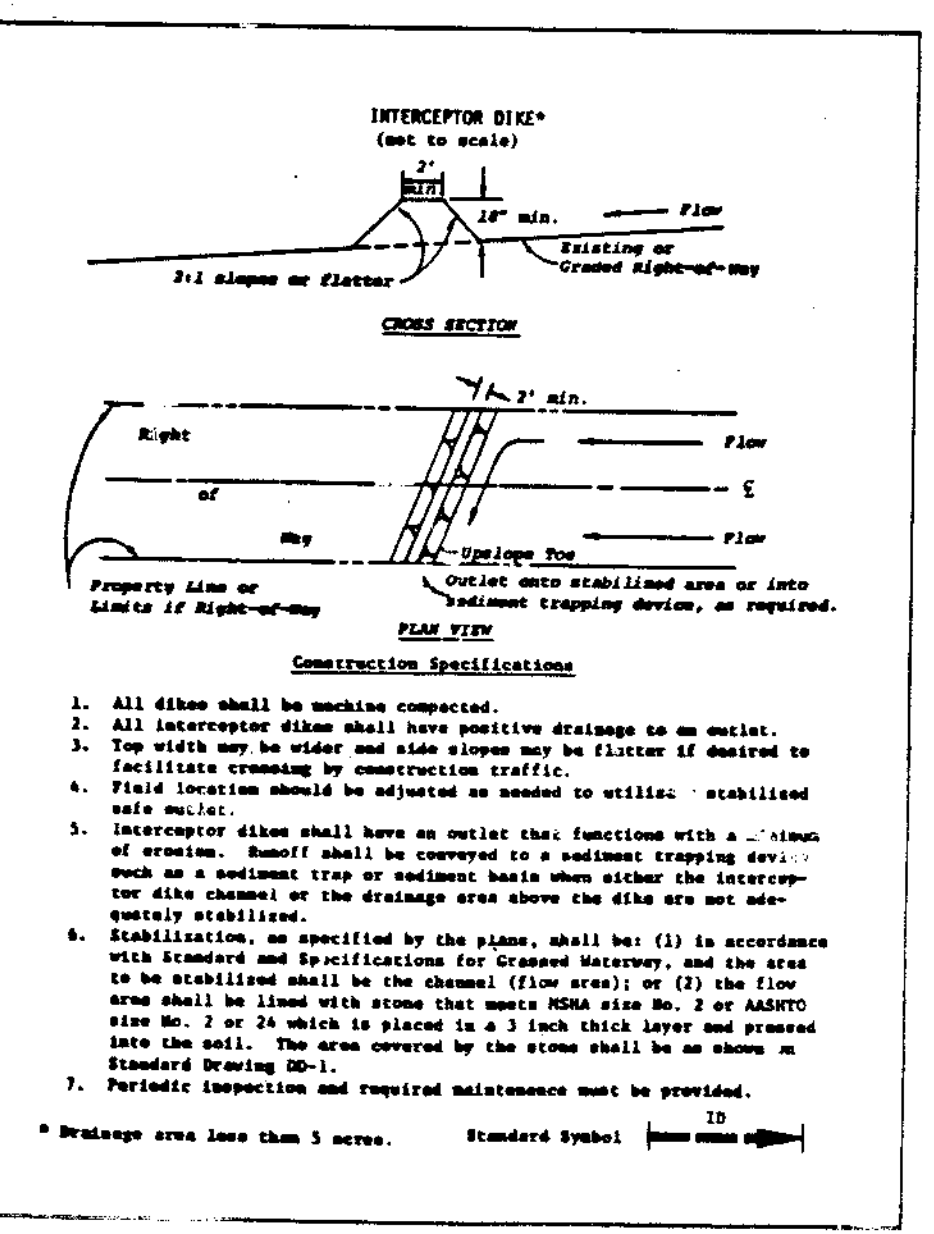
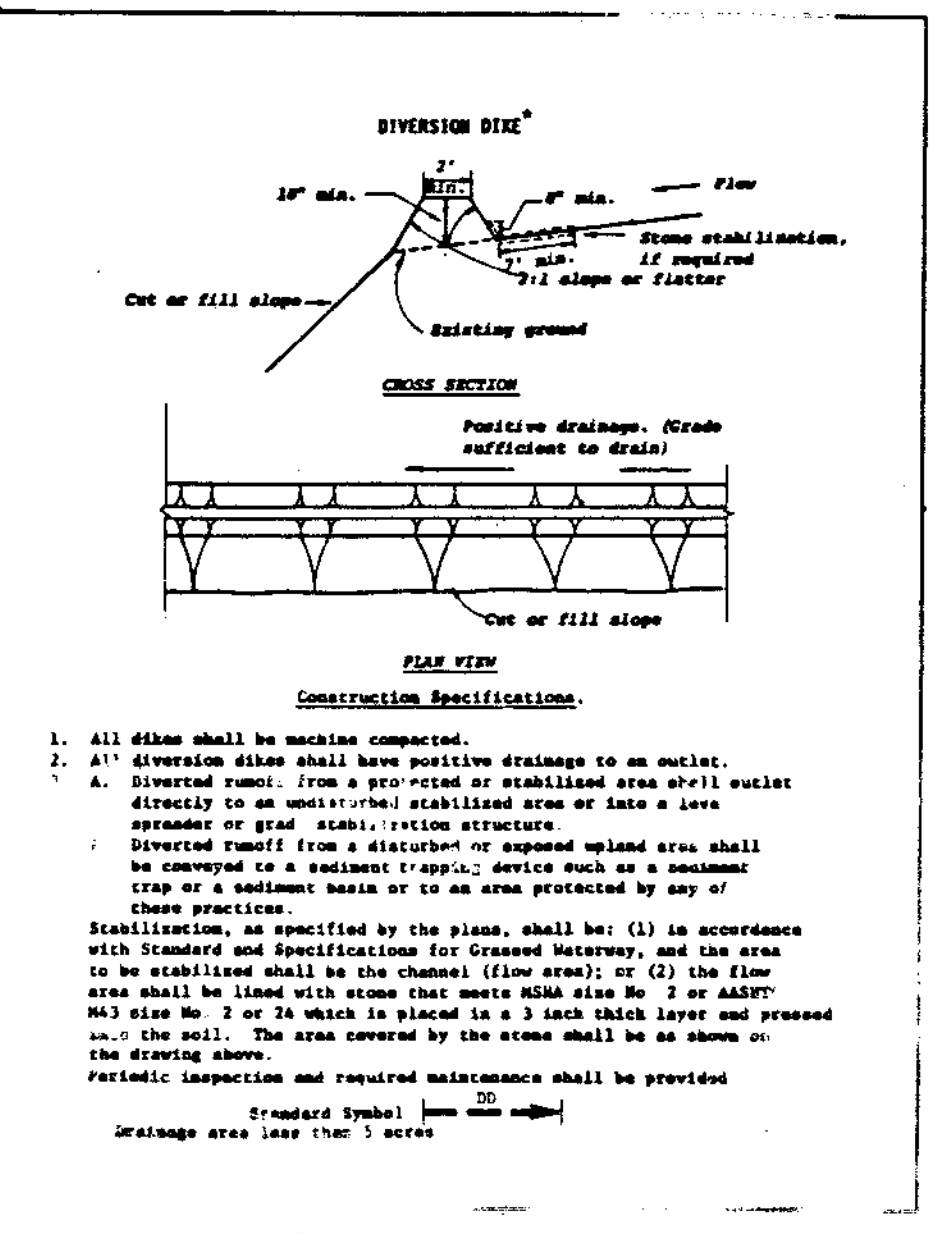
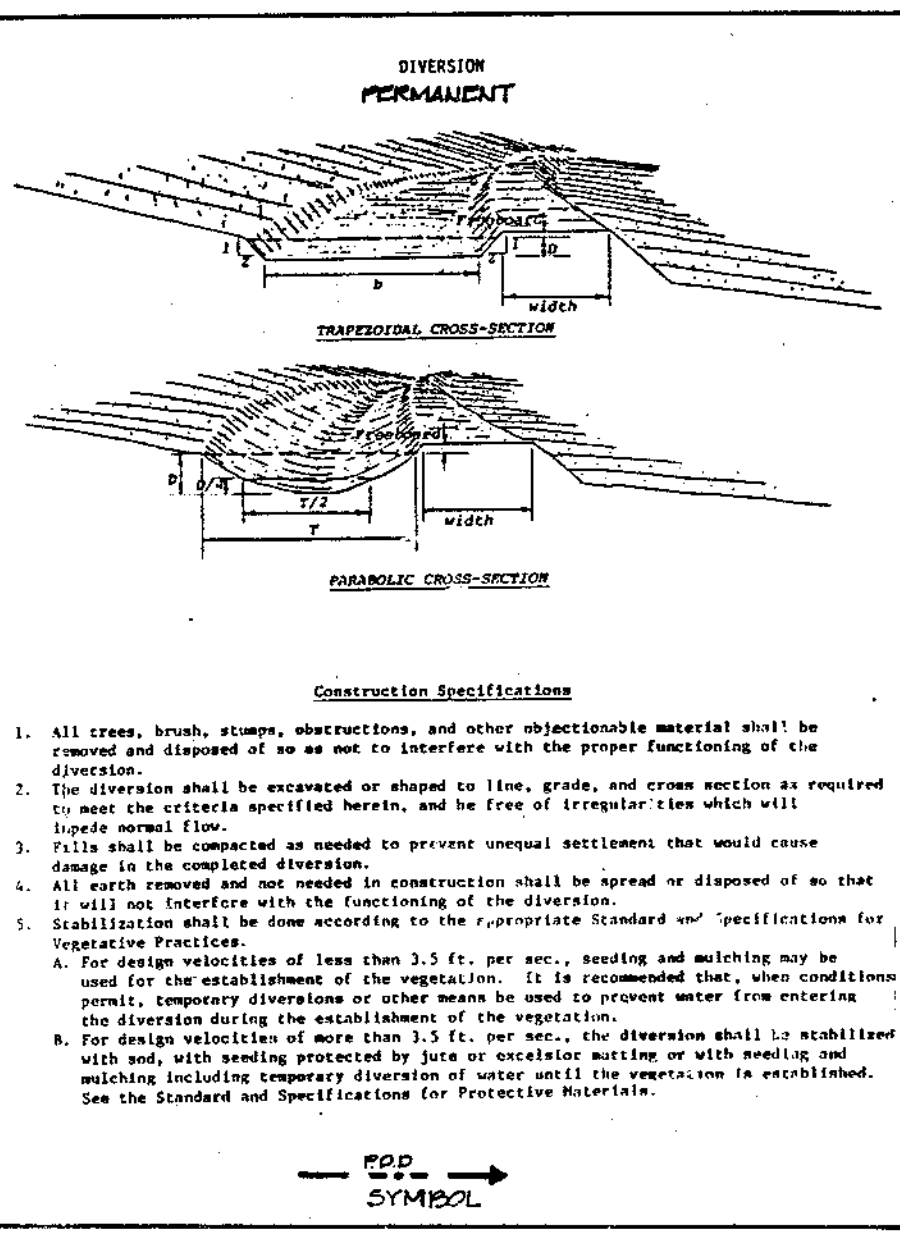


**TEMPORARY SEEDING**

- AREA TO BE SEEDING SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
1. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
  2. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
  3. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
  4. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

**PERMANENT SEEDING**

- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
1. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
  2. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3 LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
  3. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
  4. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
  5. SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE @ 80 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.



By the Developer:  
Steve Storch 12-29-82 Date

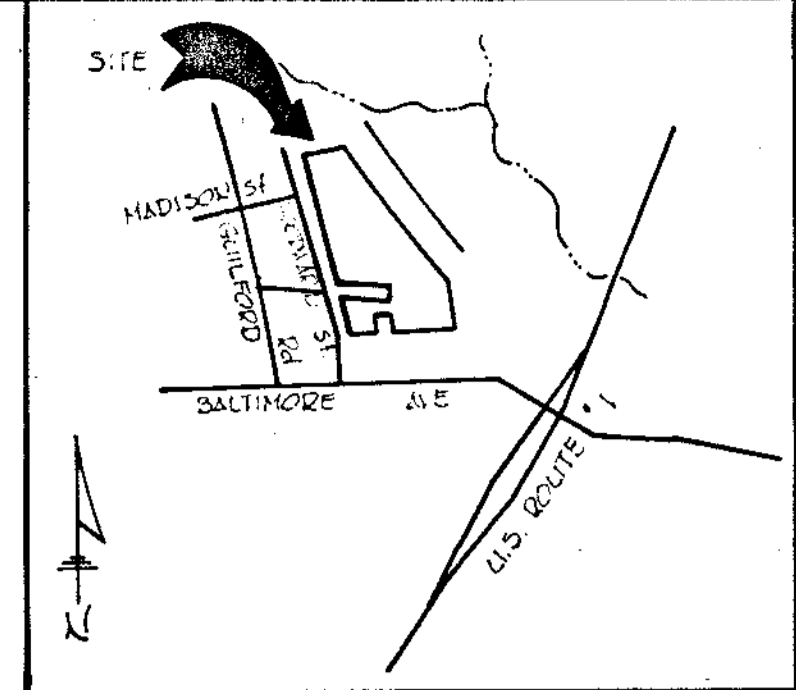
"I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion 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.

By the Engineer:  
Charles R. Crocken, P.E. 12-27-82 Date

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

U.S. Soil Conservation Service  
Howard Soil Conservation District

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>J. Smith</i> 1-7-83 PLANNING DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>Joseph A. ...</i> 1-7-83 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. <i>Joseph A. ...</i> 1-7-83 COUNTY HEALTH OFFICER DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. <i>Charles R. Crocken</i> 12-29-82 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
OWNER: <i>Howard Hills Ltd. Partnership</i> 1-7-83 DIRECTOR DATE
DEVELOPER: HOWARD HILLS LTD. PARTNERSHIP 8930 BALTIMORE STREET Savage, Maryland, 20663
PROJECT: SECTION 3 PARCELS A,B,C HOWARD HILLS
AREA: SAVAGE, MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: SEDIMENT CONTROL DETAILS
DESIGNED BY: C.R.C.
DRAWN BY: C.R.C.
PROJECT NO: 700 E
DATE: FEB. 15, 1982
SCALE: AS SHOWN
DRAWING NO: 513 OF 15



VICINITY MAP  
SCALE: 1" = 2000'

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82

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

*James A. Grubb, M.D., D.P.H.* 1-7-83  
COUNTY HEALTH OFFICER DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR *W. F. Nalley* 1-7-83  
CHIEF BUREAU OF ENGINEERING *W. F. Nalley* 1-6-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
PLANNING DIRECTOR *William J. Harty* 1-7-83

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION *Charles R. Heim* 1-7-83

10-1-82	2	REVISED PER COUNTY COMMENTS
6-28-82	1	REVISED PER COUNTY COMMENTS

DATE	NO.	REVISION DESCRIPTION
		TAX MAP 47 PARCEL 423

DEVELOPER / OWNER: HOWARD HILLS LTD. PARTNERSHIP  
8250 BALTIMORE STREET  
SAVAGE, MARYLAND 20865

PROJECT: SECTION 3 PARCELS A, B, C  
**HOWARD HILLS**

AREA: SAVAGE, MARYLAND  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MD.

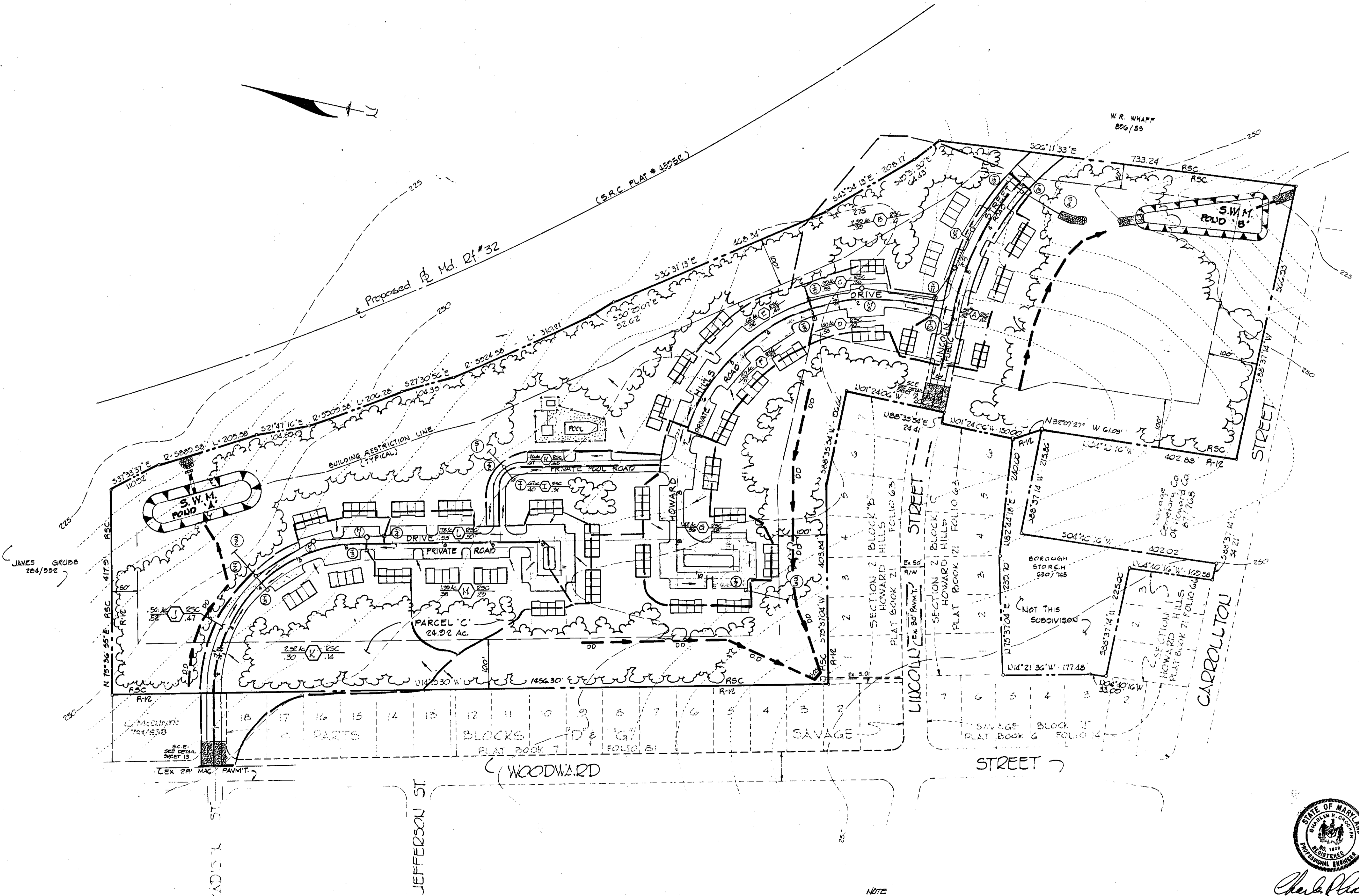
TITLE: SEDIMENT CONTROL & DRAINAGE AREA MAP

**CHARLES R. HEIM**  
ASSOCIATES INC.  
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS  
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

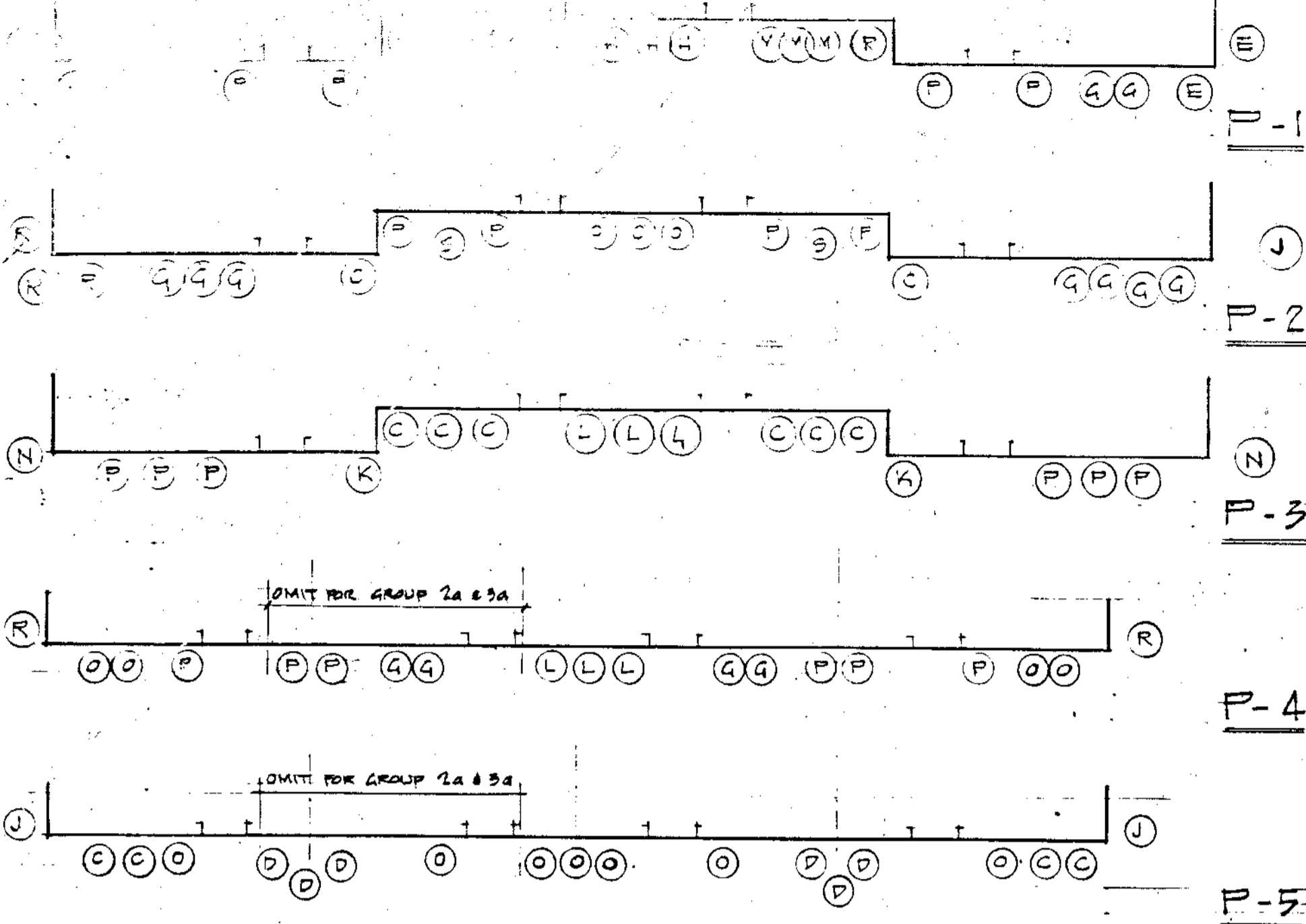
DATE: <i>12-27-82</i>	DESIGNED BY: C.R.C.
DATE: <i>12-27-82</i>	DRAWN BY: C.R.C.
DATE: FEB. 15, 1982	PROJECT NO: 790
SCALE: 1" = 100'	DATE: FEB. 15, 1982
PROFESSIONAL ENGR NO.	DRAWING NO 5-8 OF 15



*Charles R. Heim*  
12-27-82

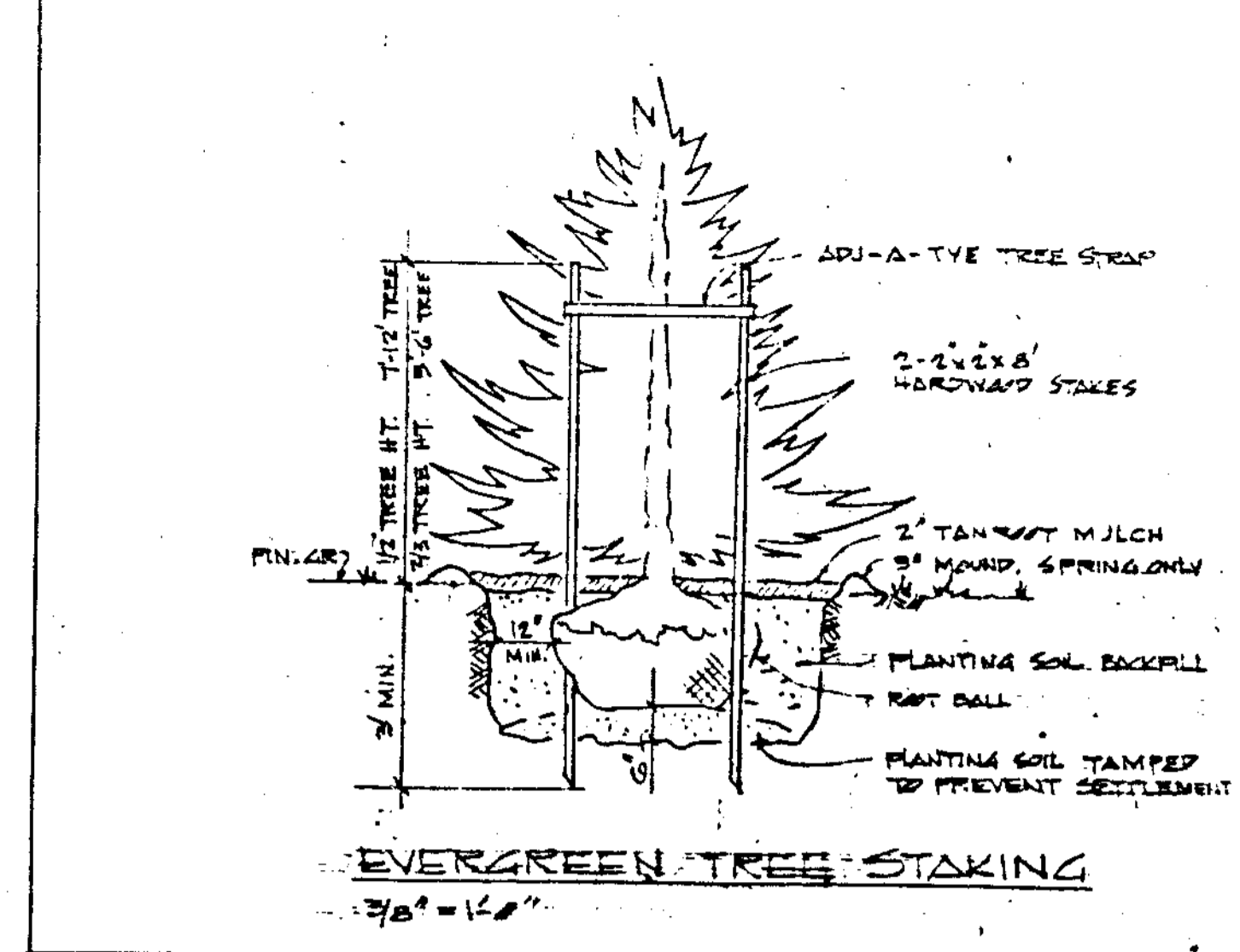
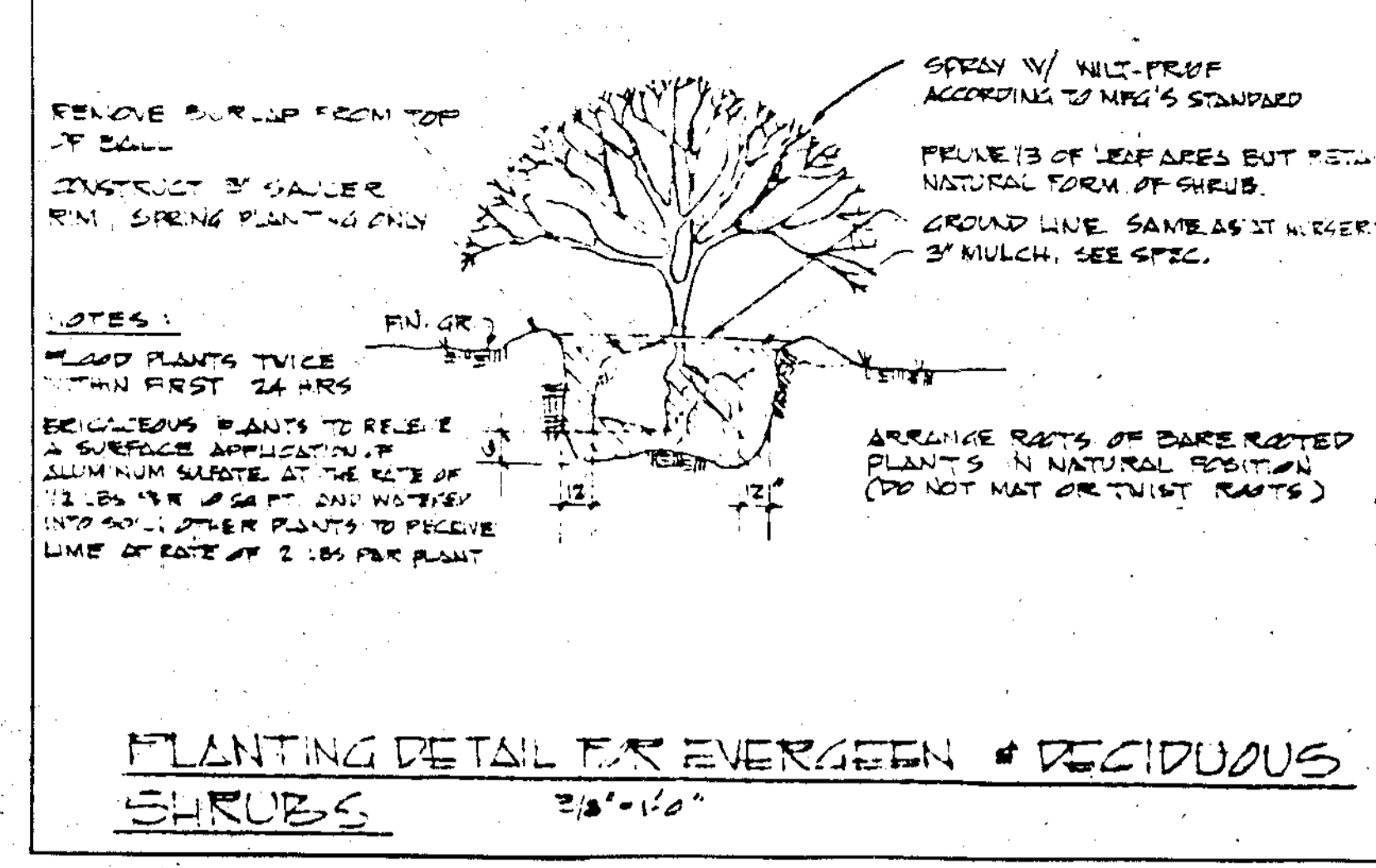


NOTE FOR DETAIL PLANS OF SEDIMENT CONTROL SEE PLAN SHEETS 5-1 THROUGH 5-5



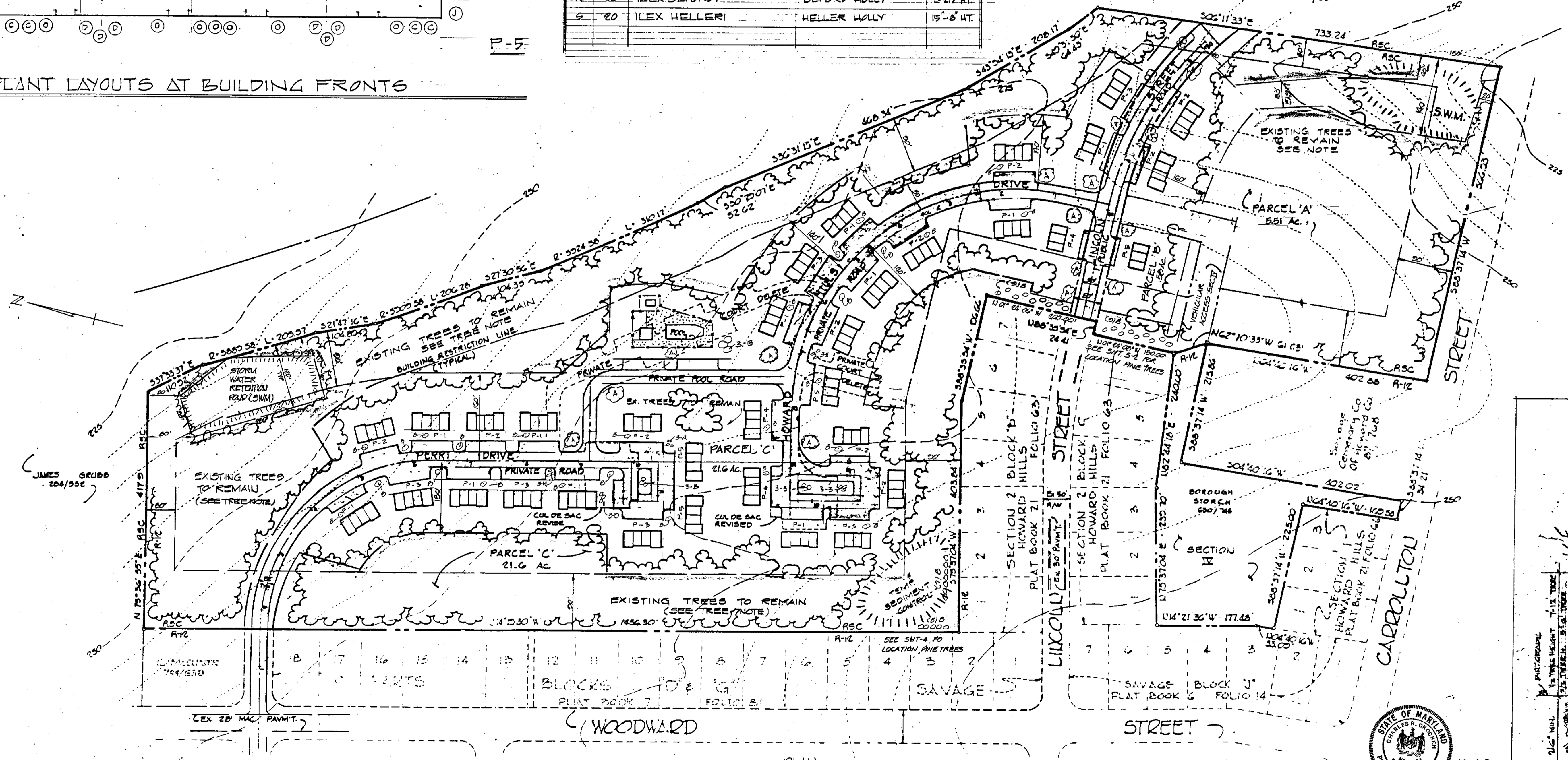
PLANT LAYOUTS AT BUILDING FRONTS

SCHEDULE				
MARK	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
A	17	ACER RUBRA	RED MAPLE	2-2 1/2 CAL
B	67	PINUS STR. MUS. CALIF. MIN.	WHITE PINE	8-10' HT
C	72	ILEX CRENATA COMPACT	JAPANESE HOLLY	18-24" HT
D	27	LIGUSTRUA LUCIDA	GLOSSY PRIVET	18-24" HT
E	44	JUNIPERUS PFITZER HETZI	HETZI SP JUNIPER	8-24" HT
F	44	PRUNUS LAUR. SCH.	CHERRY LAUREL	8-24" HT
G	100	EUDNYAUS SIEGOLDI	EVER. EUDNYAUS	18-24" HT
H	36	JUNIPERUS PFITZER	PFITZER JUNIPER	18-24" HT
J	10	PINUS STROBUS	WHITE PINE	5-6' HT
K	12	THUJA OCC. WOODWARDI	GLOBE ARBORVITAE	18-24" HT
L	27	ELEAGNUS		18-24" HT
M	60	JUNIPERUS HORIZ. PLUMOSA	ANDORRA JUNIPER	15-18" HT
N	15	THUJA OCCIDENTALIS	PYRAMIDAL ARBORVITAE	3' HT.
O	66	OSMANTHUS		2' HT.
P	68	ILEX BEFORDI NANA	DWARF BEFORDI HOLLY	18-24" HT.
R	40	ILEX BEFORDI	BEFORD HOLLY	2-2 1/2 HT.
S	20	ILEX HELLERI	HELLER HOLLY	15-18" HT.

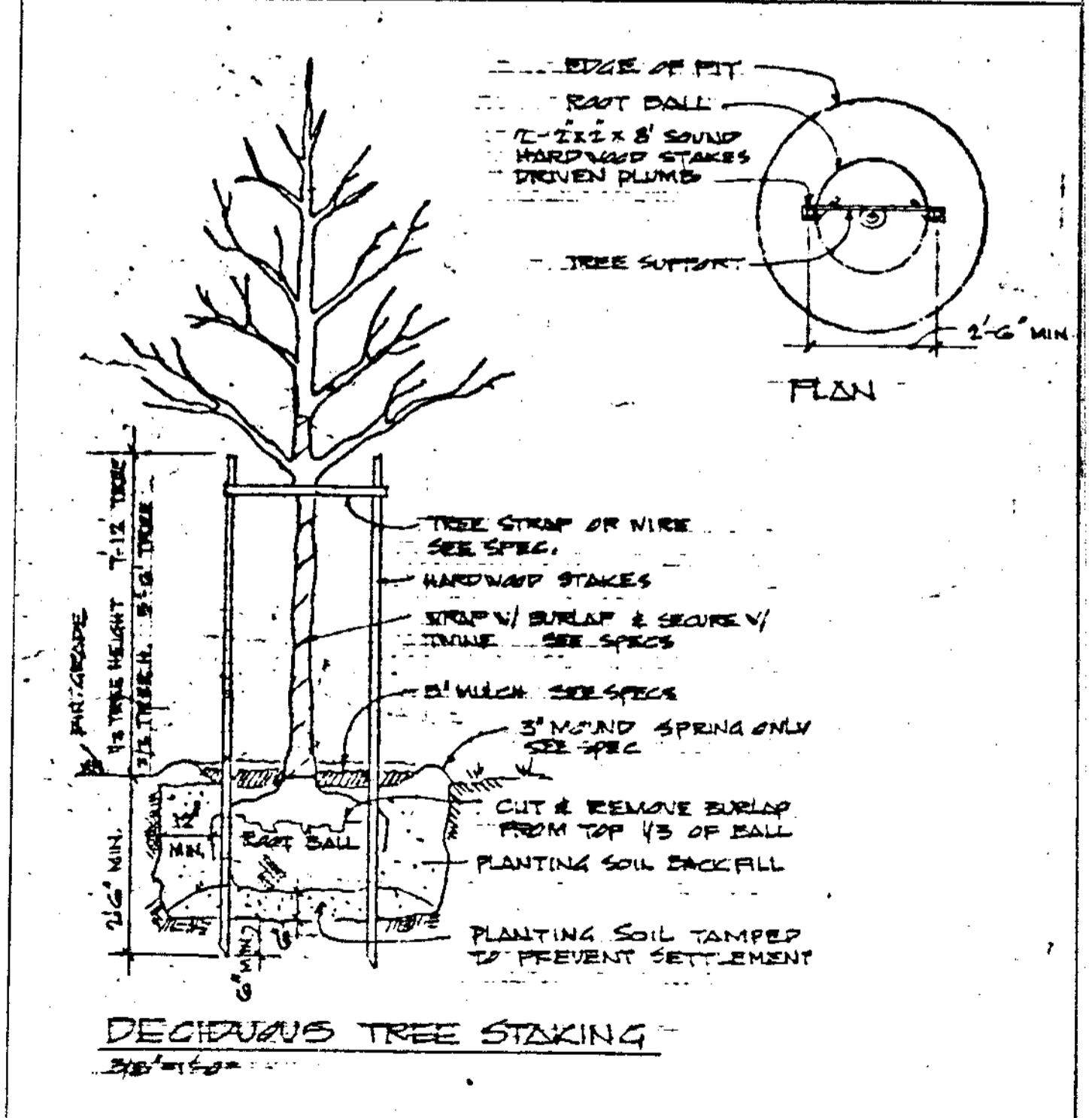


APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-7-82  
*JMM*

REVISED 10-1-82 PER COUNTY COMMENTS



TITLE:	LANDSCAPING PLAN
DEVELOPER:	HOWARD HILLS LTR PARTNERSHIP
OWNER:	8000 BALTIMORE STREET SAVAGE, MARYLAND 21065
PROJECT:	HOWARD HILLS SECTION III PARCELS A, B, C
AREA:	SAVAGE MARYLAND SIXTH ELECTION DISTRICT HOWARD COUNTY, MD.
ENGINEER:	TYDINGS CHEM ASSOCIATES INC. 8570 COURT AVENUE ELLICOTT CITY, MD 21043



DECIDUOUS TREE STAKING

NOTES: EXISTING TREES ARE TO BE REMOVED IN THE AREAS OF NEW CONSTRUCTION. THE ARCHITECT WILL DETERMINE WHICH TREES, LOCATED ON THE SITE PERIMETER & OTHER AREAS SO INDICATED, SHALL BE SAVED. NOTIFY ARCHITECT FOR THIS DECISION AFTER GRADE ELEVATION STAKES ARE IN PLACE.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>James P. ...</i> 1-7-83 COUNTY HEALTH OFFICER DATE	APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>James P. ...</i> 1-7-83 PLANNING DIRECTOR DATE	APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, SEWAGE DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>John F. ...</i> 1-7-83 DIRECTOR DATE	DATE 2/15/82	HOWARD HILLS SAVAGE, MD.	PROJ. NO. DWG NO. 5-15 OF 15
APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION <i>Charles K. ...</i> 1-7-83 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION			REVISIONS 1-7-83 <i>...</i>	GEORGE RABINEK, AIA, ARCHITECT BALTIMORE, MARYLAND	PL-1