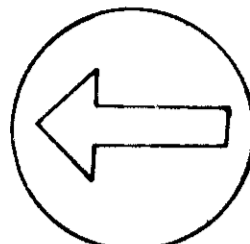


100 YR. FLOOD PLAIN LIMITS



ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
	W.N. 1/19/77	Revised Parking	R.M.	R.M. 1/77

PERM. POND # 1 (see Sht. 1 of 18)

NOTE: ALL ROOF DRAINS TO BE CONNECTED TO PROPOSED STORM DRAIN SYSTEM AT MH # 2, MH # 3 AND I-12.

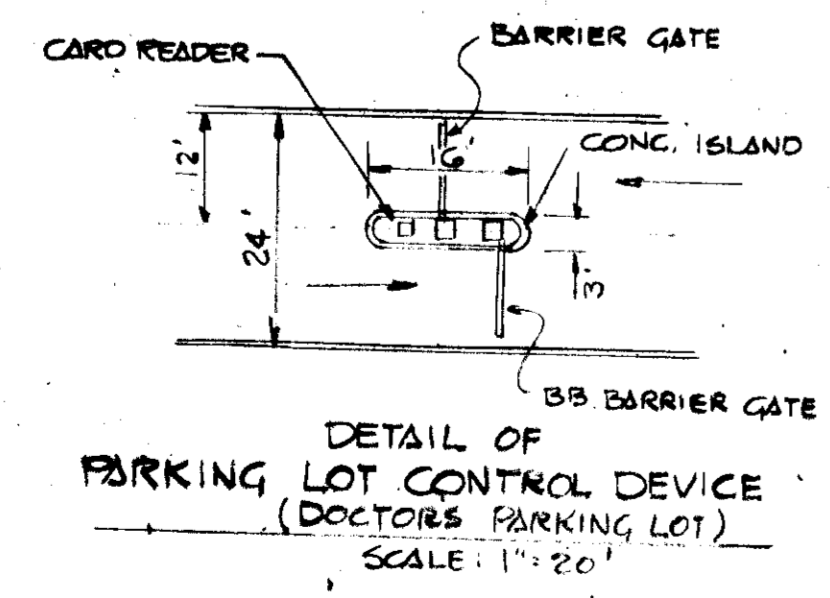
HOSPITAL BUILDING
THIRD FLOOR ELEV. 403.30
SECOND FLOOR ELEV. 390.00
FIRST FLOOR ELEV. 378.00

FOR CONTINUATION SEE SHEET 10 OF 18

SEE SHEET 30 OF 18 MATCH LINE

SEE SHEET 10 OF 18 MATCH LINE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.
John Boyd 5/15/77
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas A. Adams 5-9-77
 PLANNING DIRECTOR
John W. Musickian 5-9-77
 CHIEF, DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
P. J. Ryan 5-3-77
 DIRECTOR OF PUBLIC WORKS
Granville W. McLeod 5/3/77
 CHIEF, BUREAU OF HIGHWAYS

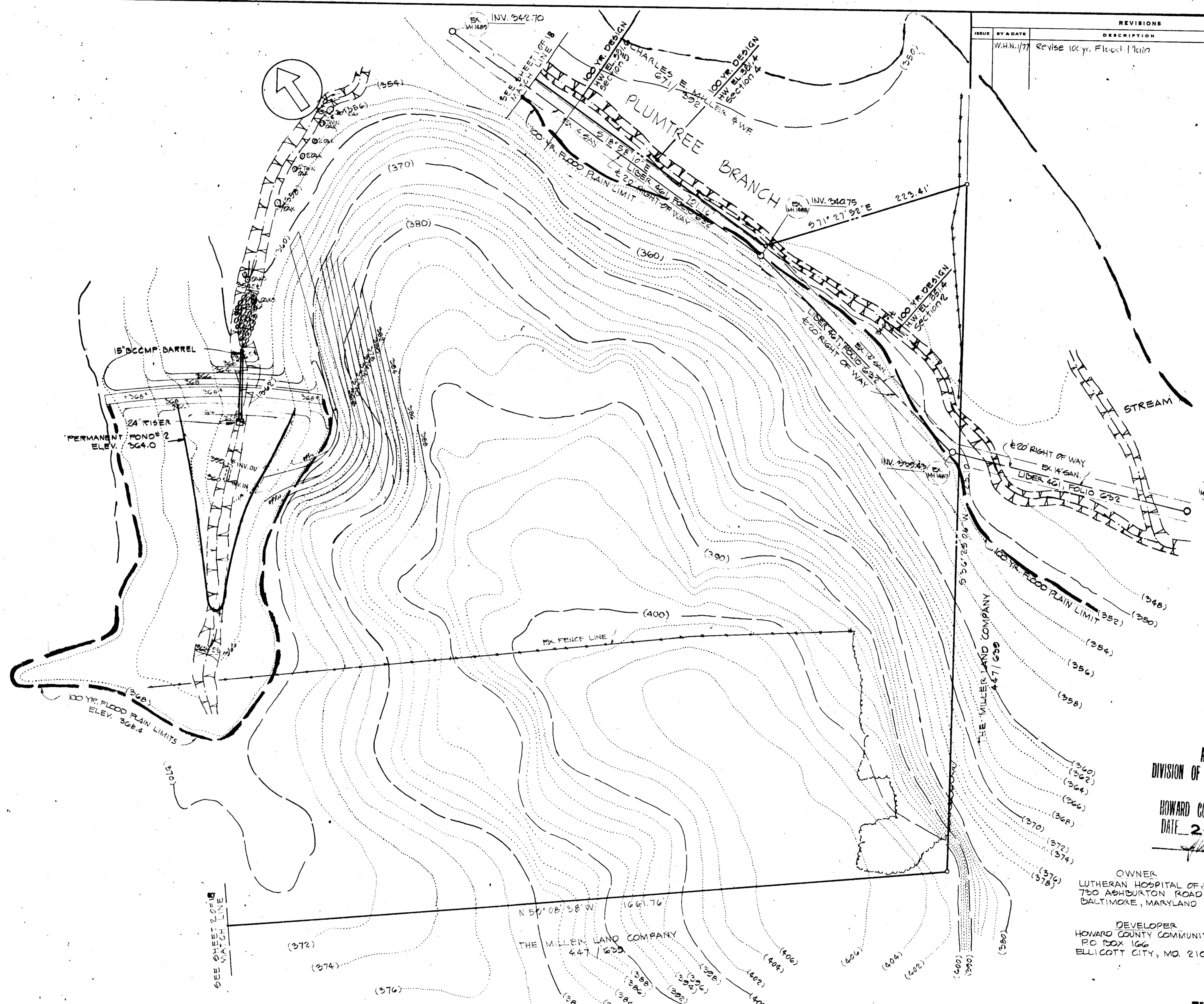


APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 2-14-77

OWNER
 LUTHERAN HOSPITAL OF MD, INC.
 700 ASHBURTON ROAD
 BALTIMORE, MARYLAND 21216
 DEVELOPER
 HOWARD COUNTY COMMUNITY HOSPITAL
 P.O. BOX 166
 ELLICOTT CITY, MD. 21043

TITLE SITE PLAN			ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC. BALTIMORE, MD. 444-7777 SALISBURY, MD. 744-1700 WESTMINSTER, MD. 844-5900
PROJECT HOWARD CO. COMMUNITY HOSPITAL	LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD.		
DATE 8-11-75	DES. BY R.J.L.	DRAWN BY T.D.	CHECKED BY J.C.
SCALE 1" = 50'	JOB NO. 7563	DRWG. NO. 2 OF 18	DATE 2/22/77

SDP-76-18



REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
	W.H.N. / 77	Revise 100 yr. Flood Plain	R.M.	R.M. / 77

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 2-14-77
W.H.N.

OWNER
LUTHERAN HOSPITAL OF MD., INC.
720 ASHBURTON ROAD
BALTIMORE, MARYLAND 21216

DEVELOPER
HOWARD COUNTY COMMUNITY HOSPITAL
P.O. BOX 166
ELLCOTT CITY, MD. 21043

2/22/77
REVISED: 9/25/75

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.
Joseph C. ... 5/1/77
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
James D. ... 5-9-77
PLANNING DIRECTOR DATE
John W. ... 5-9-77
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

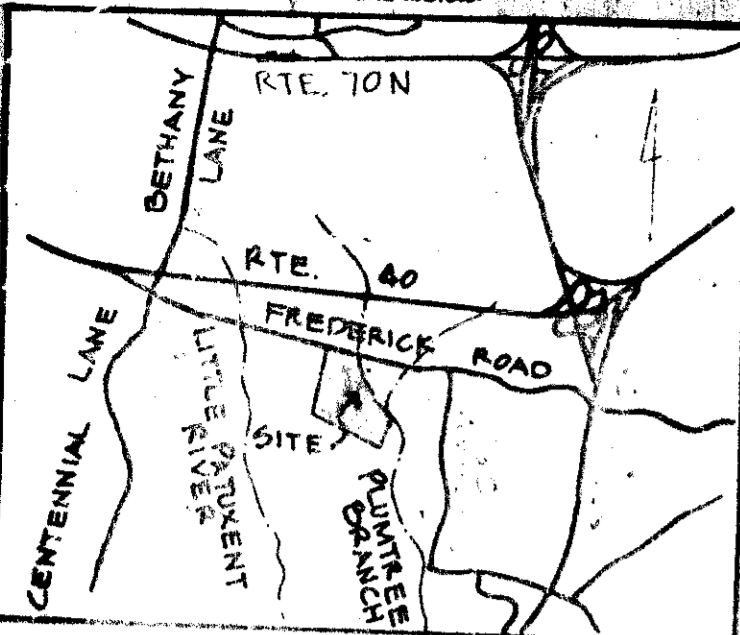
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
John ... 5-3-77-77
DIRECTOR OF PUBLIC WORKS DATE
Donald R. ... 5/3/77
CHIEF, BUREAU OF HIGHWAYS DATE

TITLE SITE PLAN			
PROJECT HOWARD CO. COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD.			
DATE: 8-11-75	DES. BY: R.J.L.	DRAWN BY: TO	CHKD. BY: JS
SCALE: 1" = 50'	JOB NO. 7562	DRWG. NO. 3 OF 18	



ENGINEERING
PLANNING
SURVEYING
BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 496-7777
SALISBURY, MD. 749-1285
WESTMINSTER, MD. 548-9586

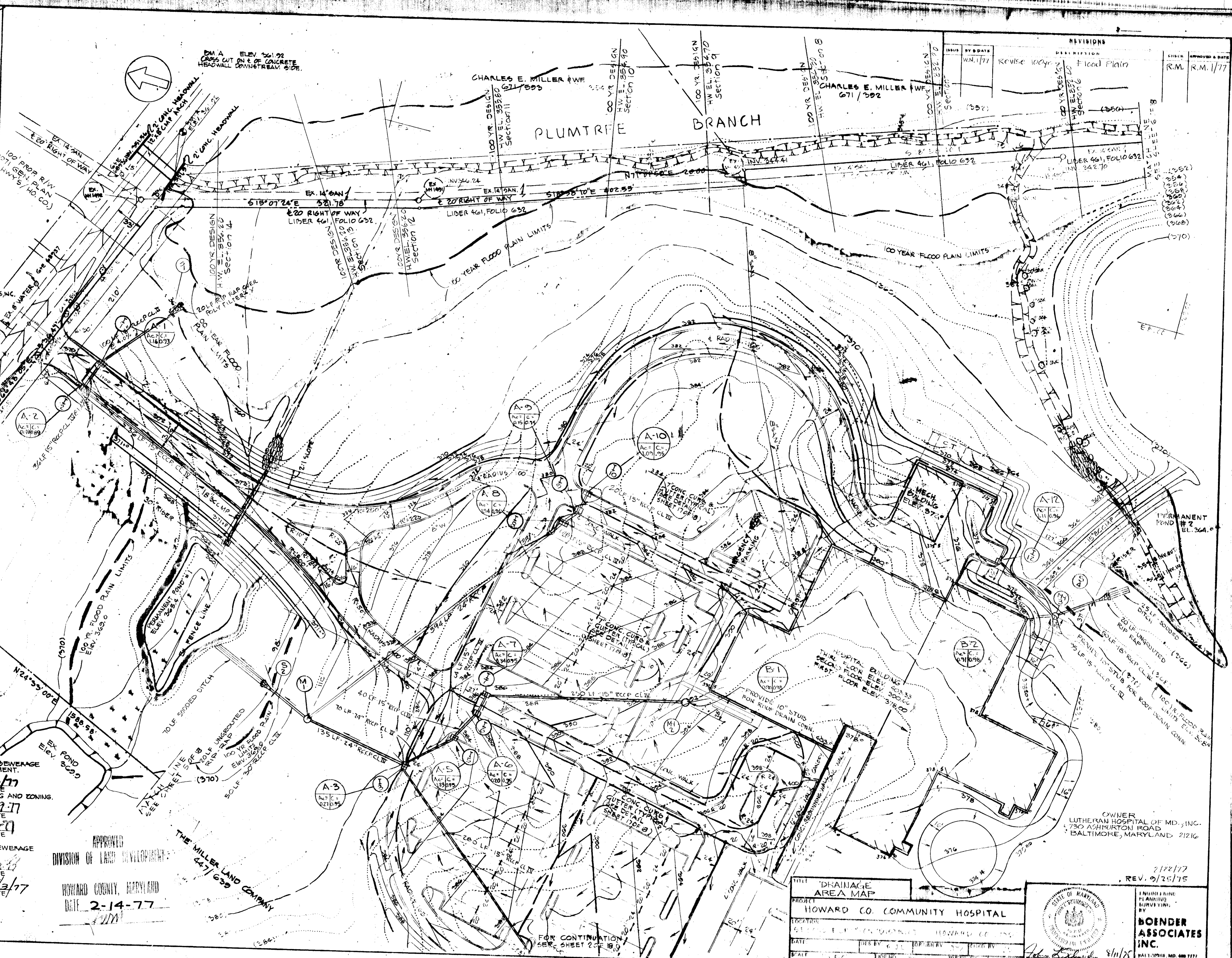
SDP-76-18



VICINITY MAP
SCALE: 1" = 1 MILE

GENERAL NOTES

- TOTAL AREA: 50 ACRES
- ZONING: R-20
- NO. OF BLDGS: 200
- NO. OF EMPLOYEES: 414
- PARKING: 120 SPACES
- ADJUSTMENTS: 272 SPACES
- TOTAL PARKING PROVIDED: 246 SPACES
- BUILDING AREA: 1,90 AC.
- ROADS AND PARKING AREA: 6.42 AC.
- 7.5' WIDE 24' PARALLEL 15'
- SITE USE: HOSPITAL
- OWNER: LUTHERAN HOSPITAL OF MD INC. 730 ASHBURTON ROAD BALTIMORE, MARYLAND 21216
- SEWER WATER AND PUBLIC GSEWER: 100' WAS FIELD RUN BY BOENDER ASSOCIATES, INC. OVERHEAD ELECTRIC LINES WAS TAKEN FROM GAS DRUG #30215 UNDERGROUND AND OVERHEAD TELEPHONE LINES WAS TAKEN FROM C.F. DRUG #421-2 ALL OTHER UTILITIES SHOWN HEREON WILL BE FIELD RUN
- DEVELOPER: HOWARD CO. COMMUNITY HOSPITAL P.O. BOX 100 ELLICOTT CITY, MD. 21043
- FOR ALL OTHER DETAILS SEE SHEETS 10-11
- FOR FOUND. PLAN, SEE SHEET 10-11
- FOR ALL OTHER DETAILS SEE SHEETS 10-11



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
[Signature] DATE 5/6/77
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
[Signature] DATE 5-9-77
 PLANNING DIRECTOR
[Signature] DATE 5-9-77
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
[Signature] DATE 2-2-77
 DIRECTOR OF PUBLIC WORKS
[Signature] DATE 5/3/77
 CHIEF, BUREAU OF HIGHWAYS

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 2-14-77

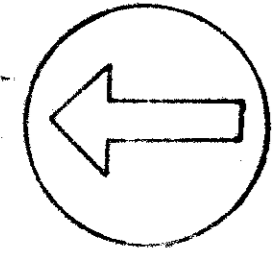
THE MILLER LAND COMPANY
 44-1/2 G39

TITLE	DRAINAGE AREA MAP
PROJECT	HOWARD CO. COMMUNITY HOSPITAL
LOCATION	730 ASHBURTON ROAD, HOWARD CO., MD.
DATE	1977
SCALE	AS SHOWN

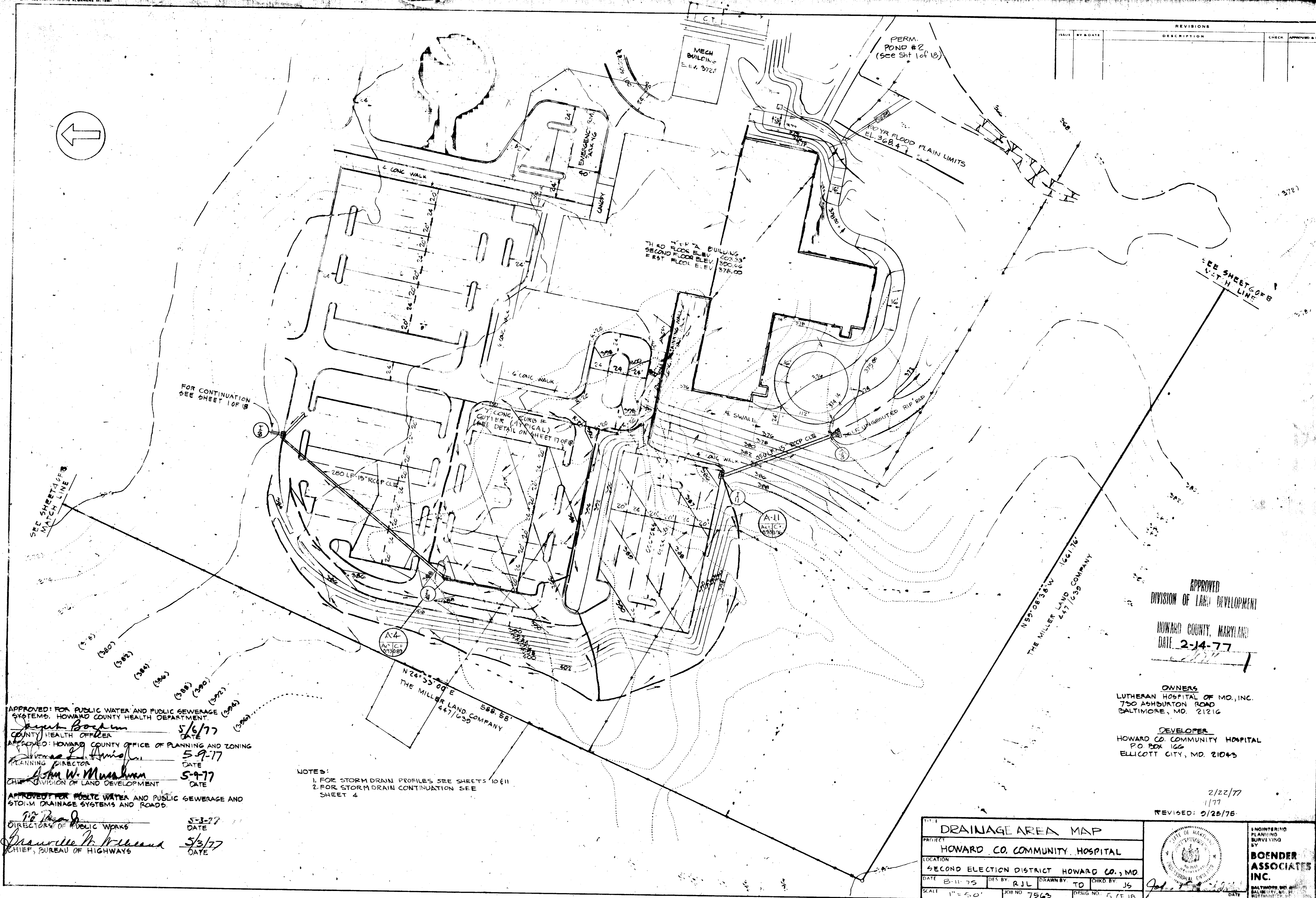


BOENDER ASSOCIATES INC.
 11177
 DATE 8/1/75

1/22/77
 REV. 9/25/75



REVISIONS			
ISSUE	BY & DATE	DESCRIPTION	CHECK APPROVED & DATE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.
James Boehm 5/6/77
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Amis 5-9-77
 PLANNING DIRECTOR
John W. Muschman 5-9-77
 CHIEF, DIVISION OF LAND DEVELOPMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
W. B. Reed 5-3-77
 DIRECTOR OF PUBLIC WORKS
Lawrence M. Williams 5/3/77
 CHIEF, BUREAU OF HIGHWAYS

NOTES:
 1. FOR STORM DRAIN PROFILES SEE SHEETS 10&11
 2. FOR STORM DRAIN CONTINUATION SEE SHEET 4

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 2-14-77

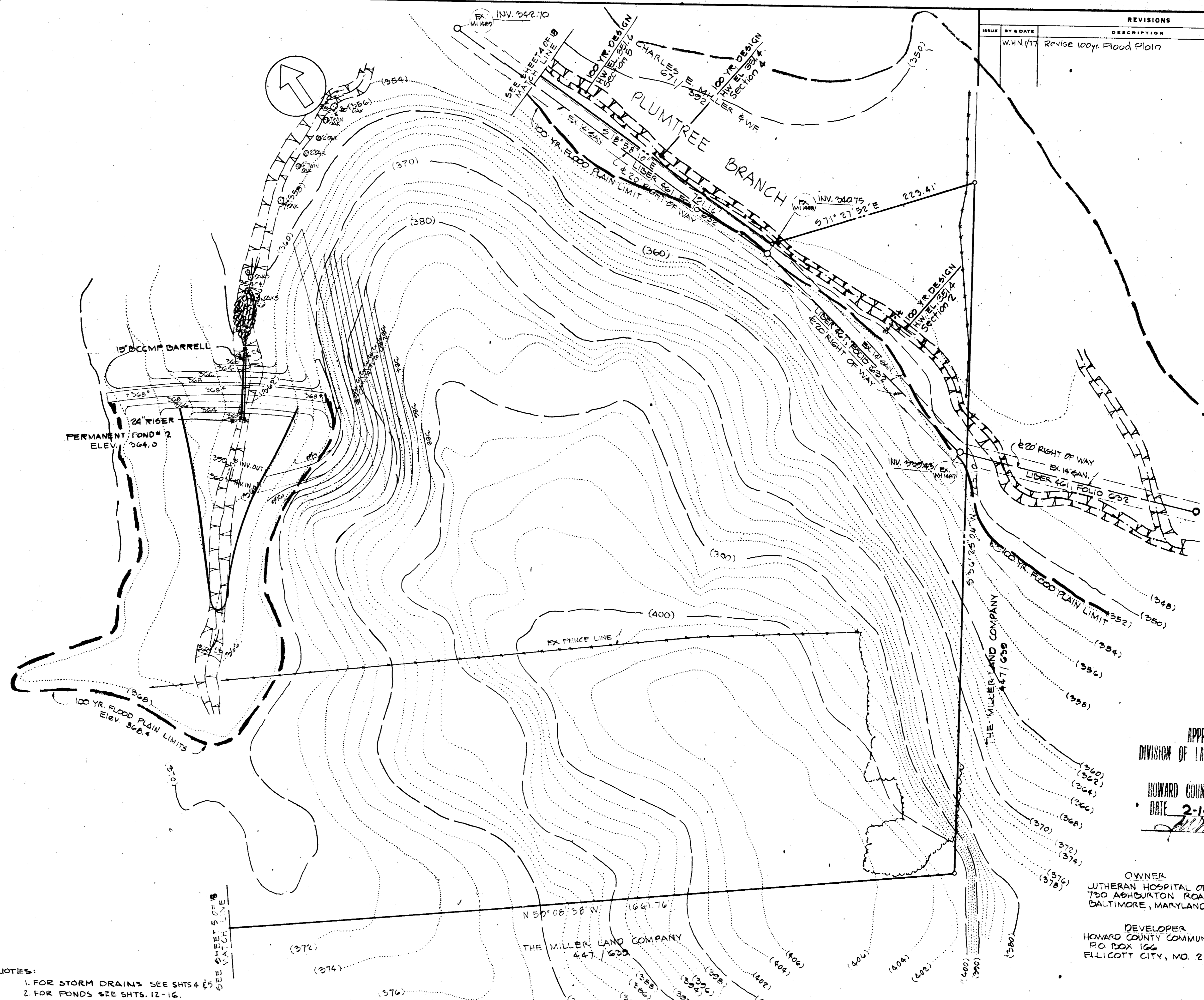
OWNERS
 LUTHERAN HOSPITAL OF MD., INC.
 750 ASHBURTON ROAD
 BALTIMORE, MD. 21216
 DEVELOPER
 HOWARD CO. COMMUNITY HOSPITAL
 P.O. BOX 166
 ELLICOTT CITY, MD. 21043

2/22/77
 1/77
 REVISED: 2/25/76

DRAINAGE AREA MAP			
PROJECT HOWARD CO. COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD			
DATE 8-11-75	DES BY R.J.L.	DRAWN BY T.D.	CHKD BY J.S.
SCALE 1"=50'	JOB NO. 7563	DRWG. NO. 5 OF 18	DATE



ENGINEERING
 PLANNING
 SURVEYING
 BY
BOENDER ASSOCIATES INC.
 BALTIMORE, MD.
 WESTMINSTER, MD.



REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	W.H.N./77	Revise 100yr. Flood Plain	R.M.	R.M. 1/77

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 2-14-77
[Signature]

OWNER
LUTHERAN HOSPITAL OF MD., INC.
720 ADHURTON ROAD
BALTIMORE, MARYLAND 21216

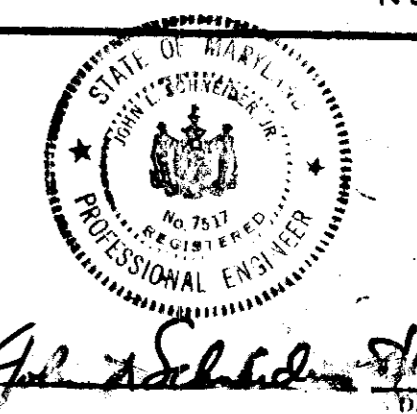
DEVELOPER
HOWARD COUNTY COMMUNITY HOSPITAL
P.O. BOX 166
ELLCOTT CITY, MD. 21043

2/22/77
1/77
REVISED: 7/25/75

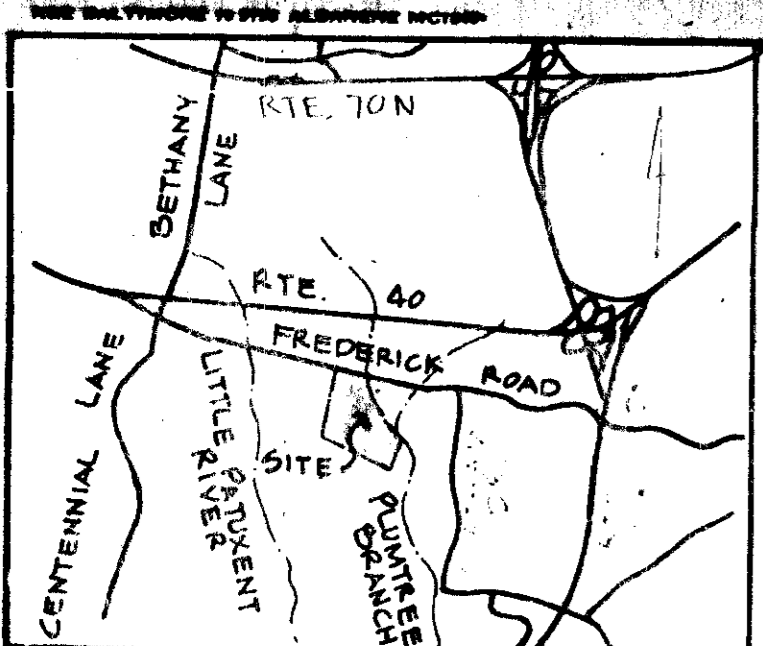
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
[Signature] 5/6/77
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
[Signature] 5-9-77
PLANNING DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
[Signature] 5-9-77
DIRECTOR OF LAND DEVELOPMENT DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
[Signature] 5-2-77
DIRECTOR OF PUBLIC WORKS DATE
[Signature] 5/3/77
CHIEF, BUREAU OF HIGHWAYS DATE

- NOTES:
1. FOR STORM DRAINS SEE SHTS 4 & 5
2. FOR PONDS SEE SHTS. 12-16.

TITLE DRAINAGE AREA MAP			
PROJECT HOWARD CO. COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD.			
DATE: 8-11-75	DES. BY: R.J.L.	DRAWN BY: TO	CHKD. BY: J.C.
SCALE: 1"=50'	JOB NO. 7862	DRAWG. NO. 6	18



ENGINEERING
PLANNING
SURVEYING
BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 21207
SALISBURY, MD. 21801
WHEELING, W. VA. 26061



VICINITY MAP
SCALE: 1/4 MILE

GENERAL NOTES

- TOTAL AREA: 50 ACRES
- ZONING: E-20
- NO. OF LOTS: 200
- NO. OF EMPLOYEES: 292
- PARKING REGULATIONS: 2.5 TO 3.0 PARKING SPACES PER 1,000 SQ. FT. OF FLOOR AREA
- EMPLOYEES: 272 PARKING SPACES
- TOTAL PARKING REQUIRED: 346 SPACES
- TOTAL PARKING PROVIDED: 346 SPACES
- BUILDING AREA: 1,900 AC. 3
- ROADS AND PARKING AREA: 6.42 AC. 1
- TAX MAP NO. 24 PARCEL NO. 152
- SITE USE: HOSPITAL

OWNER:
LUTHERAN HOSPITAL OF MD, INC.
730 ASHDOWN ROAD
BALTIMORE, MARYLAND 21216

DESIGNER:
BOENDER ASSOCIATES, INC.
1200 WARE FIELD ROAD
BALTIMORE, MARYLAND 21204

DATE: 4/19/77

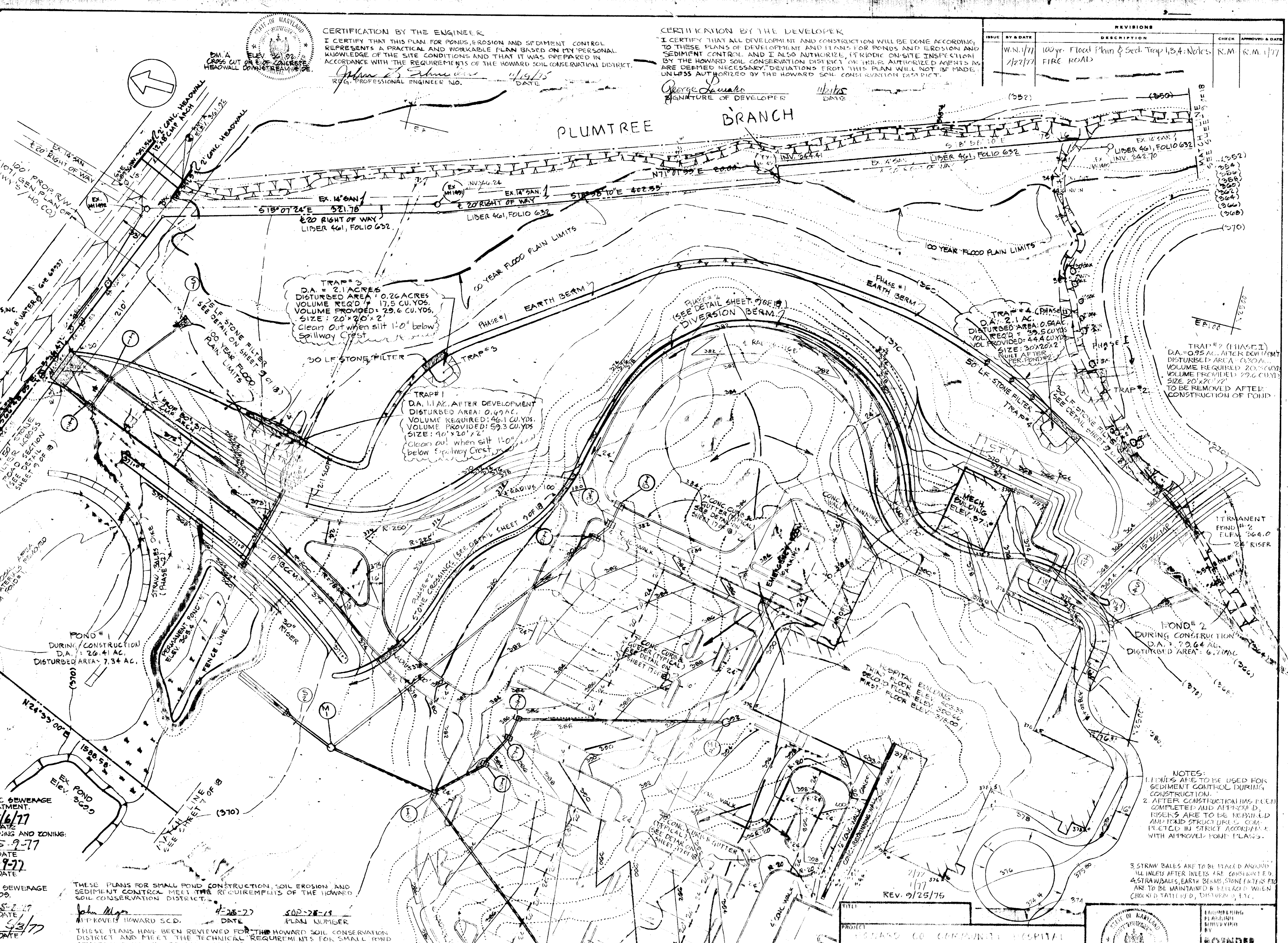
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 2-14-77

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 5/6/77

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
DATE: 5-9-77

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
DATE: 5-9-77

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
DATE: 5-9-77



CERTIFICATION BY THE ENGINEER
I CERTIFY THAT THIS PLAN FOR PONDS, 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: *John M. ...* DATE: 4/19/77
REG. PROFESSIONAL ENGINEER NO. ...

CERTIFICATION BY THE DEVELOPER
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: *George ...* DATE: 4/19/77
SIGNATURE OF DEVELOPER

ISSUE	BY	DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	W.N./77	1/27/77	100-yr. Flood Plain & Sed. Trap 1, 3, 4; Notes	R.M.	R.M. 1/77
2			FIRE ROAD		

NOTES:

1. POND #1 ARE TO BE USED FOR SEDIMENT CONTROL DURING CONSTRUCTION.
2. AFTER CONSTRUCTION HAS BEEN COMPLETED AND APPROVED, RISERS ARE TO BE REPAIRED AND ROAD STRUCTURES COMPLETED IN STRICT ACCORDANCE WITH APPROVED FOUND PLANS.
3. STRAW BALS ARE TO BE PLACED AROUND ALL INLETS AFTER INLETS ARE CONSTRUCTED.
4. STRAW BALS, EARTH BEAMS, STONE FILTERS ARE TO BE MAINTAINED & REPAIRED WHEN CHECKED, TATTERED, DISTURBED, ETC.

REV. 9/25/75

PROJECT: HOWARD CO. COMMUNITY HOSPITAL

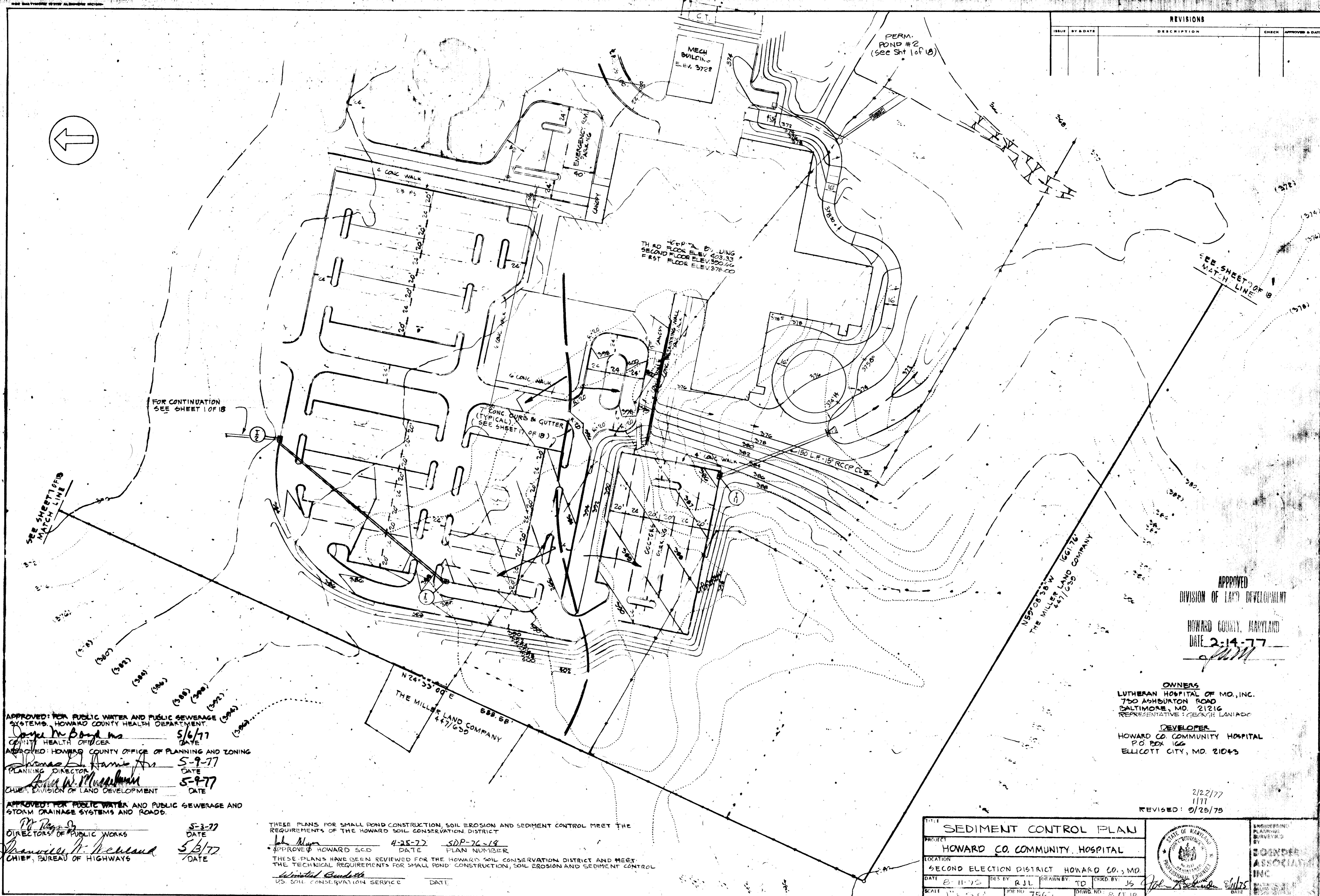
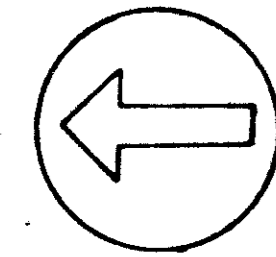
DESIGNER: BOENDER ASSOCIATES, INC.

DATE: 4/19/77

SCALE: 1" = 40'

PROJECT NO. SDP-76-18

REVISIONS			
ISSUE	BY DATE	DESCRIPTION	APPROVED & DATE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd 5/6/77
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James P. Harris 5-9-77
 PLANNING DIRECTOR DATE

John W. Musick 5-9-77
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
W. Raymond 5-3-77
 DIRECTOR OF PUBLIC WORKS DATE

Stanville H. Newland 5/3/77
 CHIEF, BUREAU OF HIGHWAYS DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT
John Mays 4-25-77 SDP-76-19
 APPROVED HOWARD SCD DATE PLAN NUMBER

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
Wendell Beckett
 US SOIL CONSERVATION SERVICE DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT

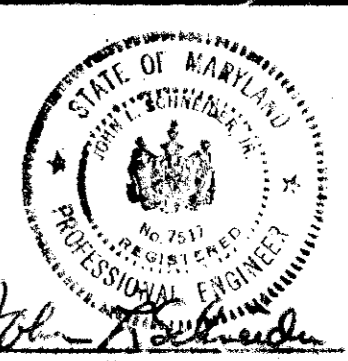
HOWARD COUNTY, MARYLAND
 DATE 2-14-77

OWNERS
 LUTHERAN HOSPITAL OF MD., INC.
 750 ASHBURTON ROAD
 BALTIMORE, MD. 21216
 REPRESENTATIVE: GEORGE LANIADO

DEVELOPER
 HOWARD CO. COMMUNITY HOSPITAL
 P.O. BOX 166
 ELLICOTT CITY, MD. 21043

2/22/77
 1177
 REVISED: 9/25/75

TITLE SEDIMENT CONTROL PLAN			
PROJECT HOWARD CO. COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD.			
DATE 8-11-75	DRAWN BY R.J.L.	CHECKED BY J.S.	DATE 8-11-75
SCALE 1" = 50'	PROJECT NO. 7545	DRAWING NO. 2 OF 12	DATE



ENGINEERING
 PLANNING
 SURVEYING
 BY
GEORGE LANIADO
 INC.

SDP-76-18

CONSTRUCTION SEQUENCE

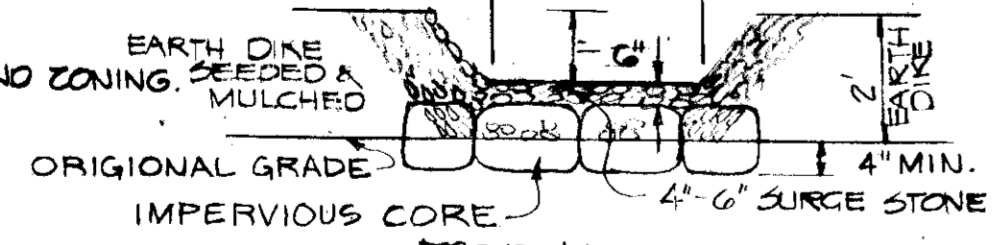
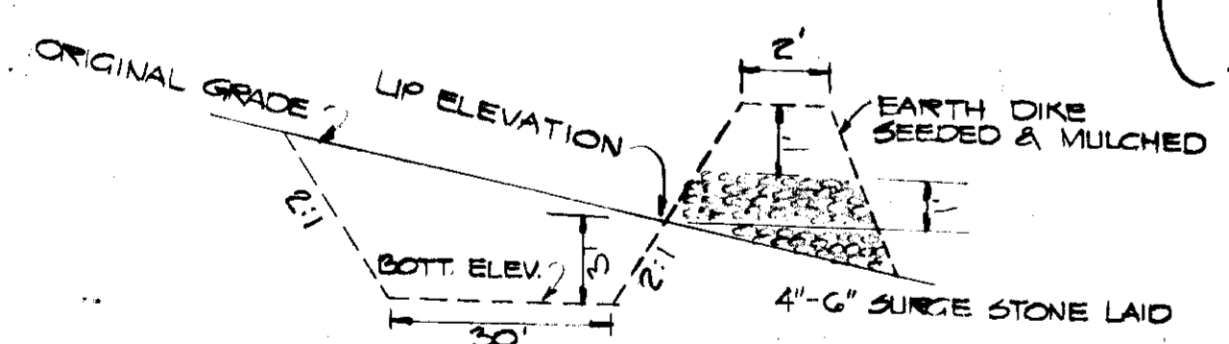
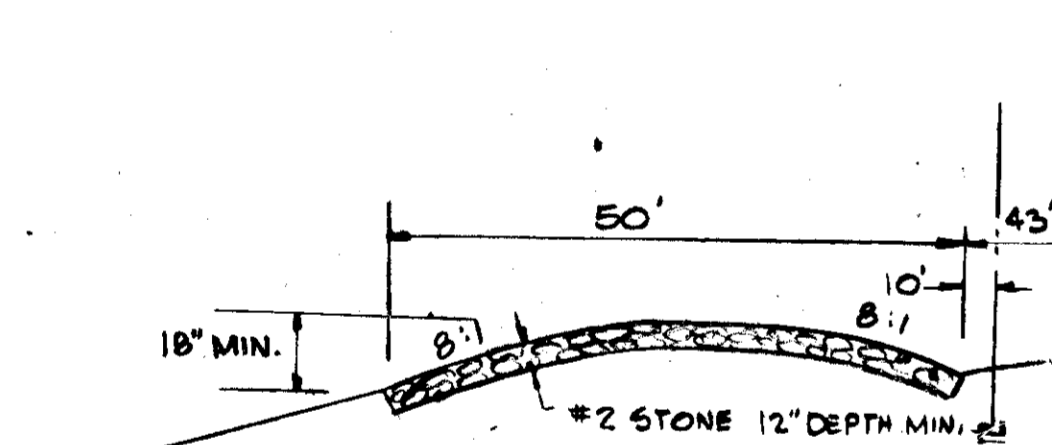
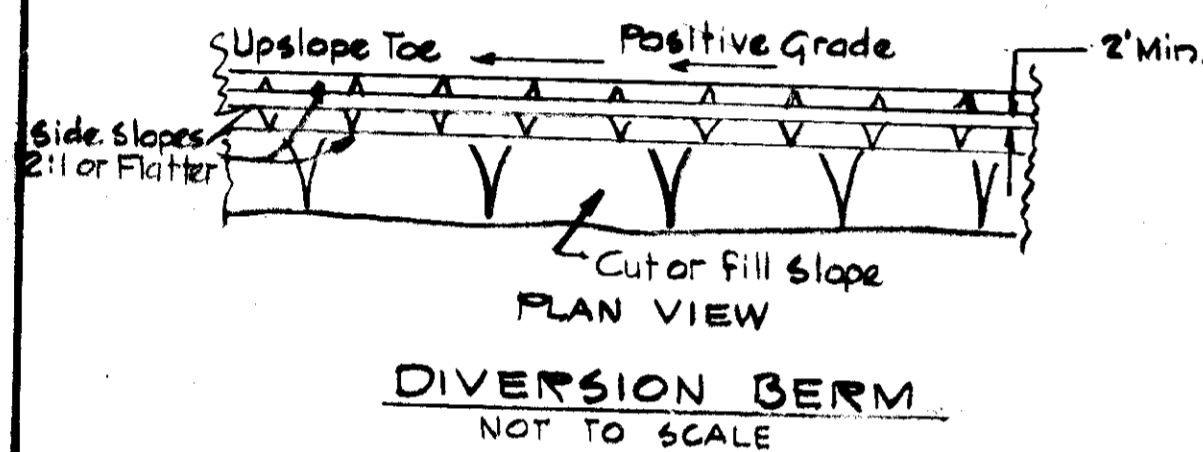
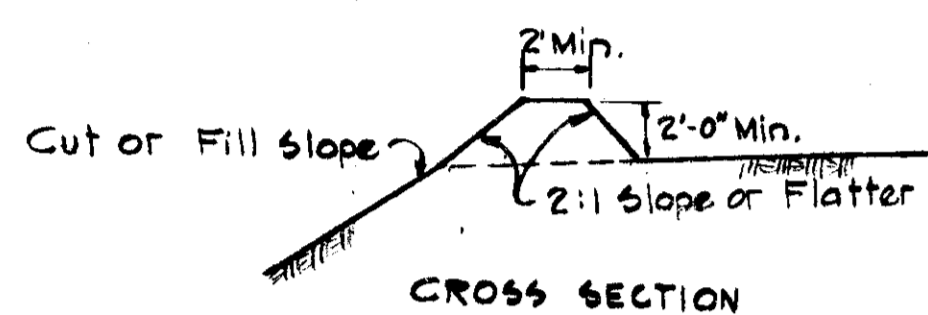
1. CONSTRUCT 1ST PHASE DIKES, STONE FILTERS AND EXCAVATED TRAPS NO. 1, 2 AND 3. STABILIZE ALL DIKES ACCORDING TO NOTE 9 ON SHEET 17 OF 18.
2. STABILIZE PONDS 1 AND 2 IN ACCORDANCE WITH DESIGN SHOWN ON SHEETS 12, 13, 14, 15, 16 AND 17 OF 18.
3. CONSTRUCT 2ND PHASE TEMPORARY EARTH DIKES WITH STONE CONSTRUCTION CROSSINGS AS SHOWN AND TRAP #4 AT THE LOW AREA DOWN FROM THE MECHANICAL BUILDING ALONG WITH THE RELOCATION OF THE TEMPORARY DIKE. STABILIZE THE RELOCATED TEMPORARY DIKE IN ACCORDANCE WITH NOTE 9 ON SHEET 17 OF 18.
4. BEGIN GRADING OF BALANCE OF SITE TO CREATE DRIVEWAYS, PARKING AREAS AND FOUNDATIONS OF BUILDINGS. EXCESS MATERIAL DURING GRADING OPERATION WILL BE STOCKPILED AS DESIGNATED ON PLAN. UPGRADE OF BASINS 1 AND 2 STOCKPILED MATERIAL WILL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH NOTE 9 ON SHEET 17 OF 18.
5. BEGIN BUILDING CONSTRUCTION.
6. COMPLETE STORM DRAINAGE SYSTEMS.
7. COMPLETE STORM DRAINAGE CONSTRUCTION ON ALL LINES, INLETS AND OUTFALLS INCLUDING RIP RAP OUTLET PADS AND DRAINAGE SWALES. DRAINAGE SWALES TO BE STABILIZED ACCORDING TO NOTE 10 ON SHEET 17 OF 18.
8. COMPLETE PAVING OF ROADWAYS AND PARKING AREAS.
9. COMPLETE BUILDING CONSTRUCTION.
10. FINISH GRADE SITE. UTILIZE TOPSOIL STORED IN DIKES AND OTHER STOCKPILED MATERIAL.
11. SEED AND MULCH ALL FINISHED GRADED AREAS IN ACCORDANCE WITH NOTE 10 ON SHEET 17 OF 18.
12. DRAIN PONDS 1 AND 2 TO LOWEST ELEVATION POSSIBLE. CLEAN OUT SEDIMENT AND GRADE INSIDE OF PONDS TO FINAL GRADES. SPREAD REMOVED MATERIAL IN SPECIFIED LOCATION AND ALLOW TO DRY.
13. STABILIZE POND BANKS AND SPOIL AREAS IN ACCORDANCE WITH NOTE 10 ON SHEET 17 OF 18.
14. PROVIDE H.S.C.D.'S AS BUILT DRAWINGS OF STORM WATER MANAGEMENT PONDS 1 & 2.

SEEDING NOTES

1. APPLY 10-10-10 FERTILIZER @ 1000#/ACRE (25#/1000#)
2. APPLY GROUND AGRICULTURAL LIMESTONE @ 200#/ACRE (50#/1000#)
3. INCORPORATE BOTH LIME AND FERTILIZER INTO SOIL BY DISCING.
4. LAY SEED TO A TIGHT FIT. REEL TO INSURE CONTACT WITH UNDERLYING SOIL. WATER IS NECESSARY FOR FIRST TWO WEEKS (IN SUMMER) TO ENSURE ESTABLISHMENT.

TRAP #2 (PHASE I)
D.A. = 0.95 AC. AFTER DEVELOPMENT
DISTURBED AREA = 0.30 AC.
VOLUME REQUIRED 20.3 CU. YD.
VOLUME PROVIDED 29.6 CU. YD.
SIZE: 20' X 20' X 2'
TO BE REMOVED AFTER
CONSTRUCTION OF POND.

TRAP #4 (PHASE II)
SEE SHEET 7 OF 18

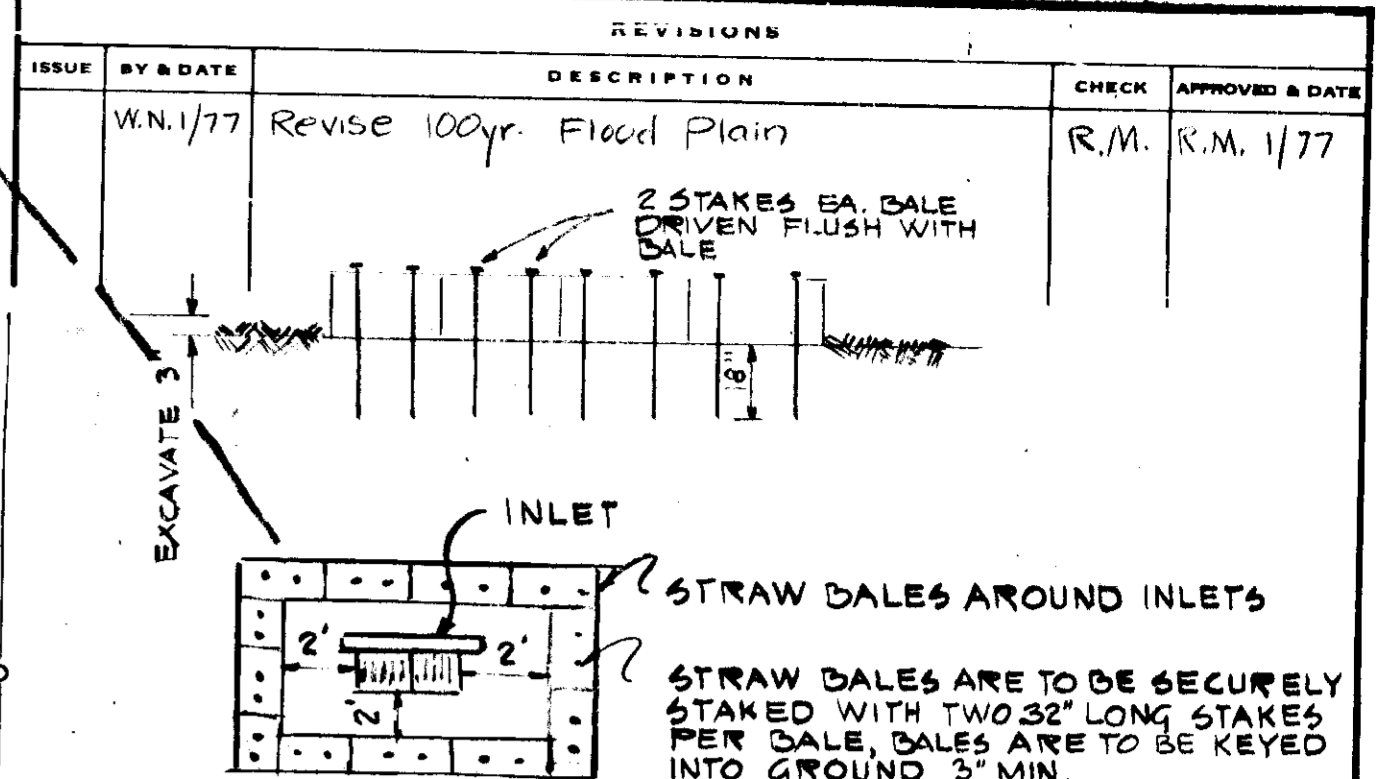
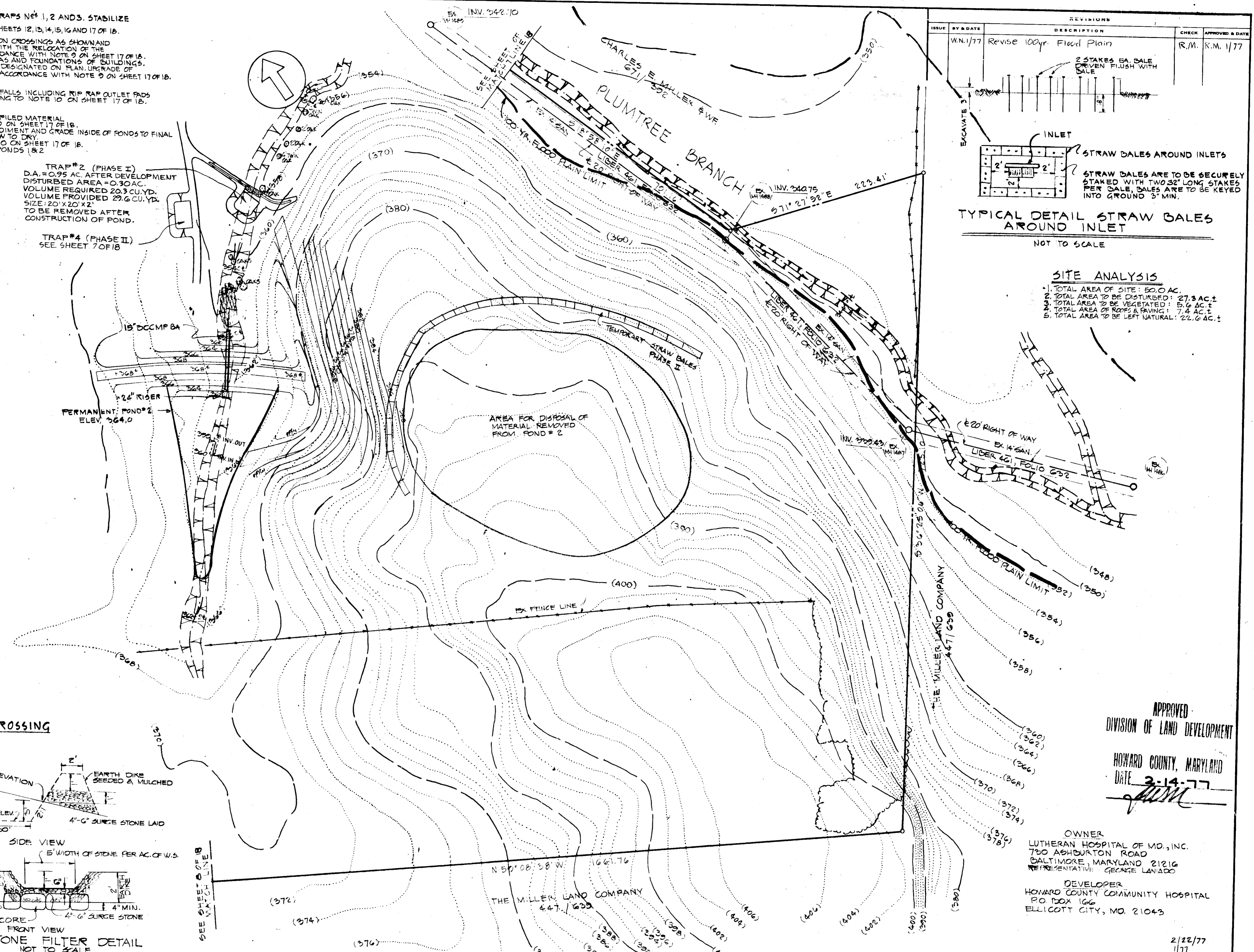


STONE FILTER DETAIL

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

APPROVED FOR HOWARD S.C.D. DATE 4-25-77 SDR-76-19 PLAN NUMBER
 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
 Approved: *Wendell Condit* DATE 4-28-77
 U.S. SOIL CONSERVATION SERVICE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER DATE 5/6/77
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING DATE 5-9-77
 PLANNING DIRECTOR DATE 5-9-77
 CHIEF DIVISION OF LAND DEVELOPMENT DATE
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
 DIRECTOR OF PUBLIC WORKS DATE 5-2-77
 CHEIEF, BUREAU OF HIGHWAYS DATE 5/3/77



SITE ANALYSIS

1. TOTAL AREA OF SITE: 50.0 AC.
2. TOTAL AREA TO BE DISTURBED: 27.3 AC.±
3. TOTAL AREA TO BE VEGETATED: 5.6 AC.±
4. TOTAL AREA OF SLOPES & SAVINGS: 7.4 AC.±
5. TOTAL AREA TO BE LEFT NATURAL: 22.6 AC.±

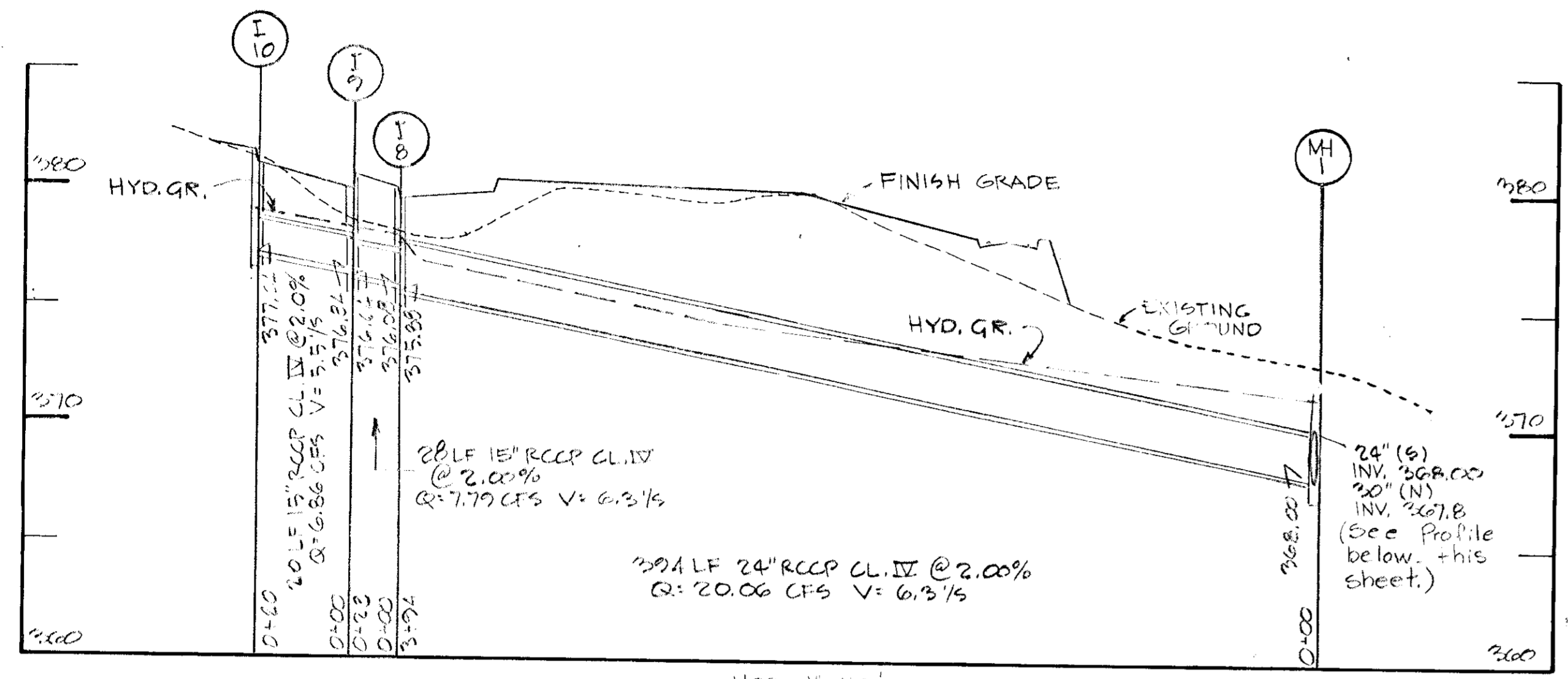
APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 3-14-77
J.M.

OWNER
 LUTHERAN HOSPITAL OF MD., INC.
 730 ASHBURTON ROAD
 BALTIMORE, MARYLAND 21216
 REPRESENTATIVE: GEORGE LANIADO
 DEVELOPER
 HOWARD COUNTY COMMUNITY HOSPITAL
 P.O. BOX 166
 ELLICOTT CITY, MD. 21043

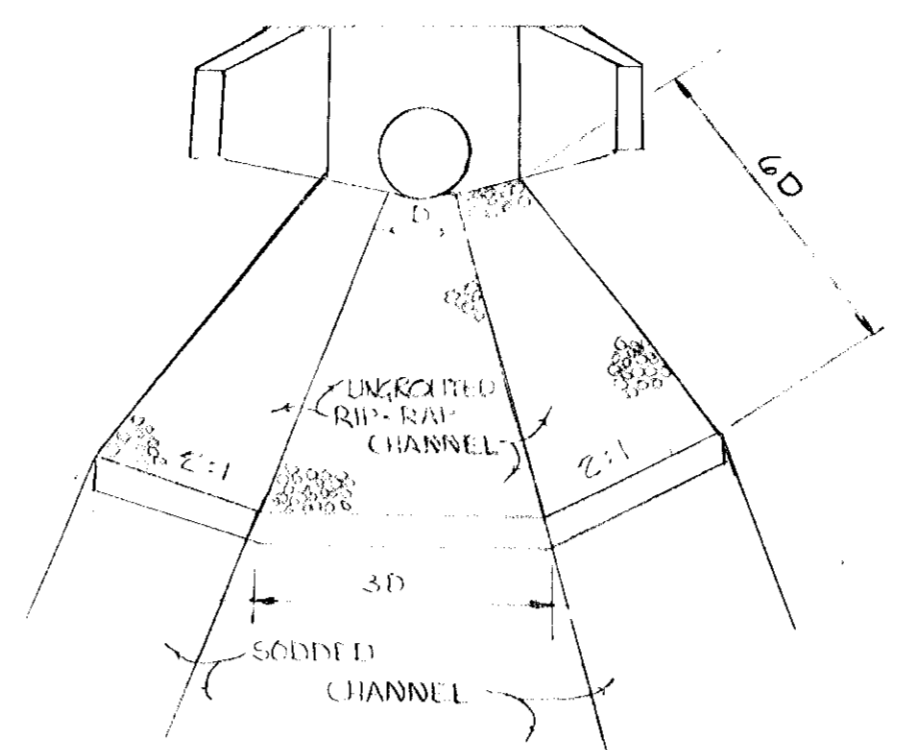
TITLE SEDIMENT CONTROL PLAN			ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC. BALTIMORE, MD. 446-7777 SALISBURY, MD. 748-1286 WESTMINSTER, MD. 648-5588
PROJECT HOWARD CO. COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO., MD.		DATE 5/1/77	
DES. BY: R.J.L.	DRAWN BY: T.O.	CHKD. BY: J.S.	DATE 5/1/77
SCALE: 1" = 50'	JOB NO. 76-22	DRWG. NO. 9 OF 18	

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH DEPARTMENT
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEM AND ROADS
 DIRECTOR
 CHIEF, BUREAU OF HIGHWAYS

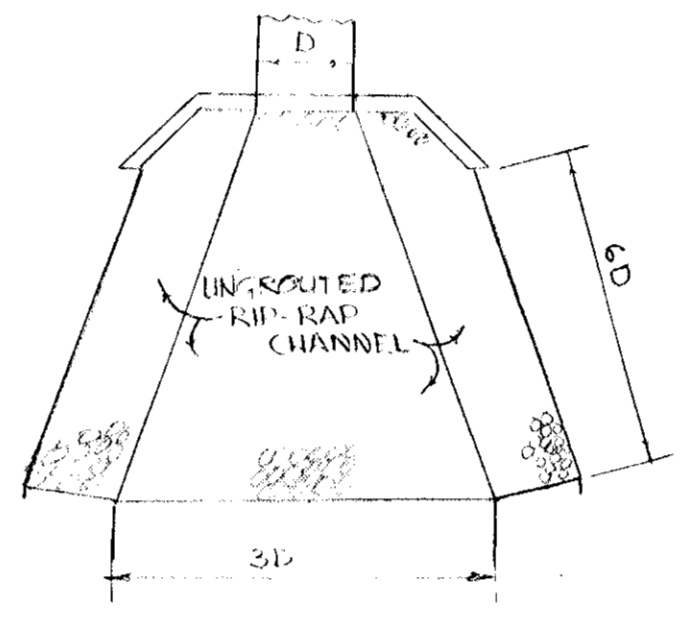


SCALE: HOR. 1"=50'
 VERT. 1"=5'

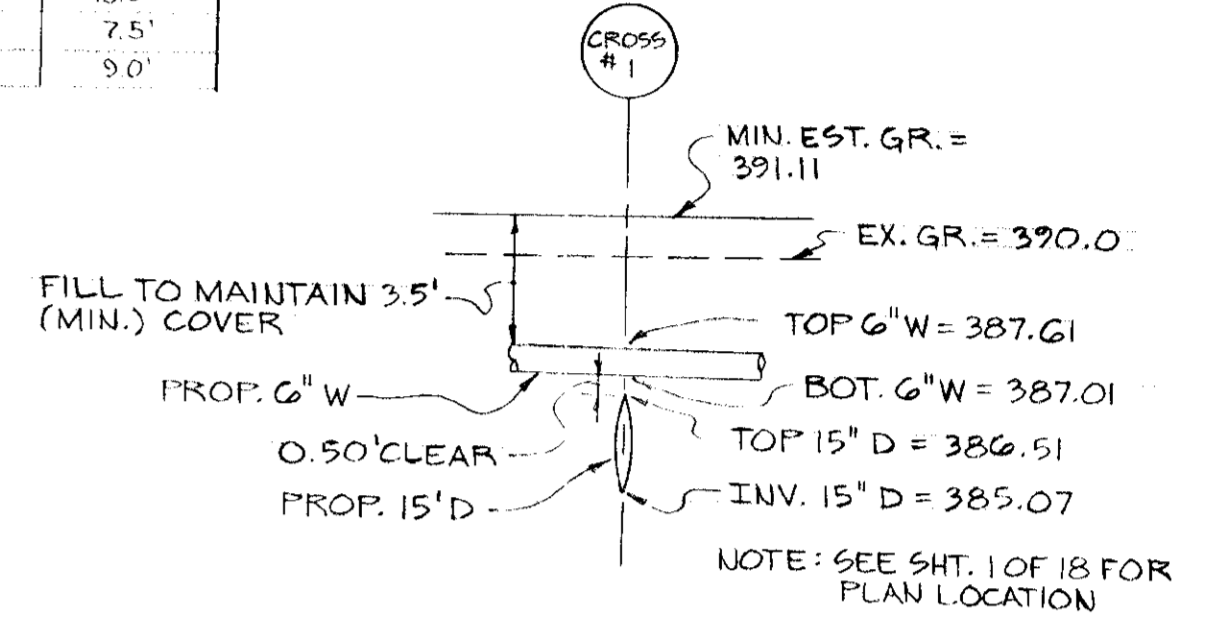


TYPICAL FRONT VIEW - OUTFALLS
 NOT TO SCALE

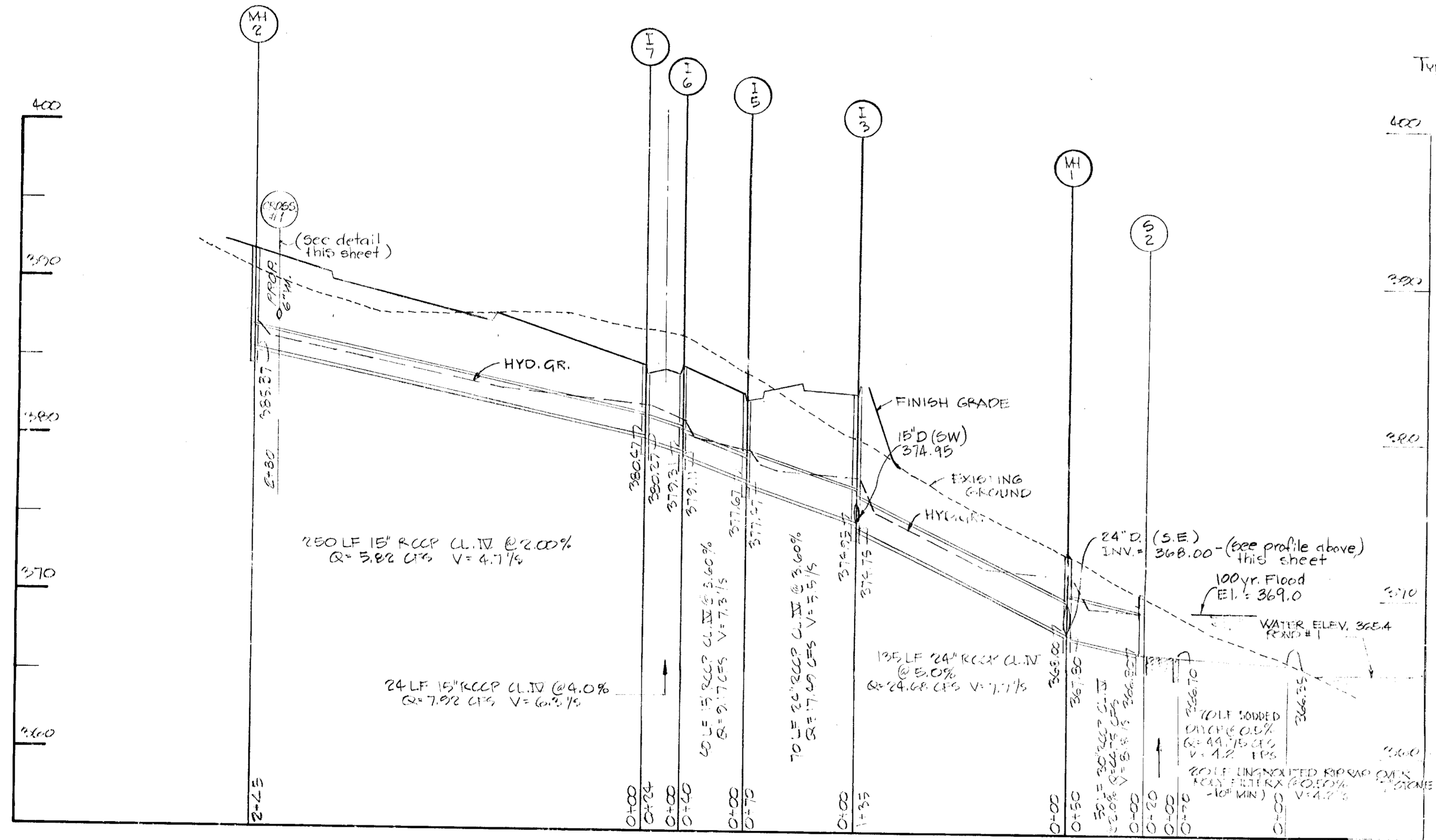
OUTFALL	D	3D	6D
S-1	18"	4.5'	9.0'
S-2	30"	7.5'	15.0'
S-3	15"	3.75'	7.5'
S-4	18"	4.5'	9.0'



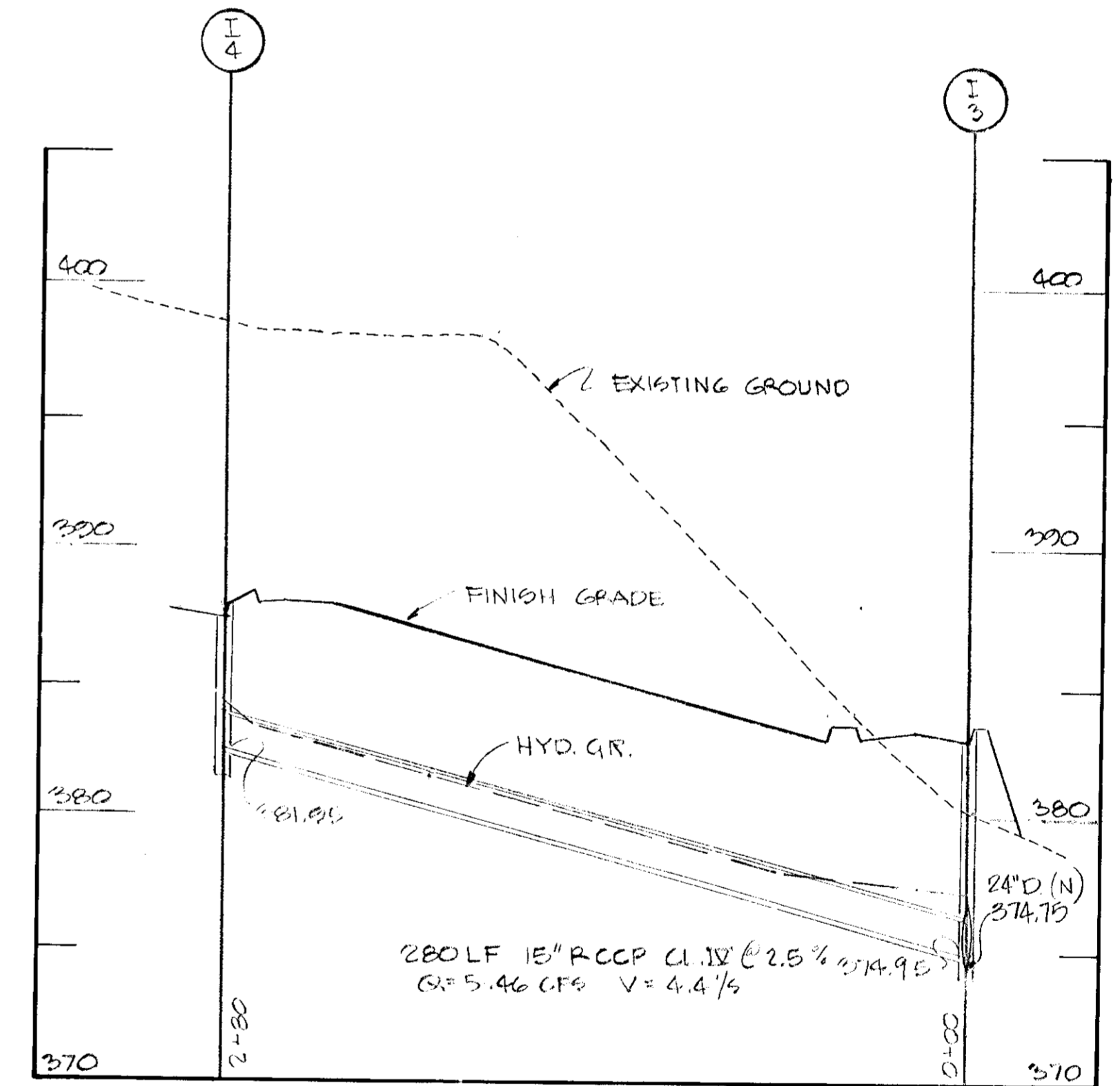
TYPICAL PLAN VIEW - OUTFALLS
 NOT TO SCALE



CROSSING #1
 PROP. 6" W x PROP. 15" D
 SCALE: 1"=5' VERT.



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



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

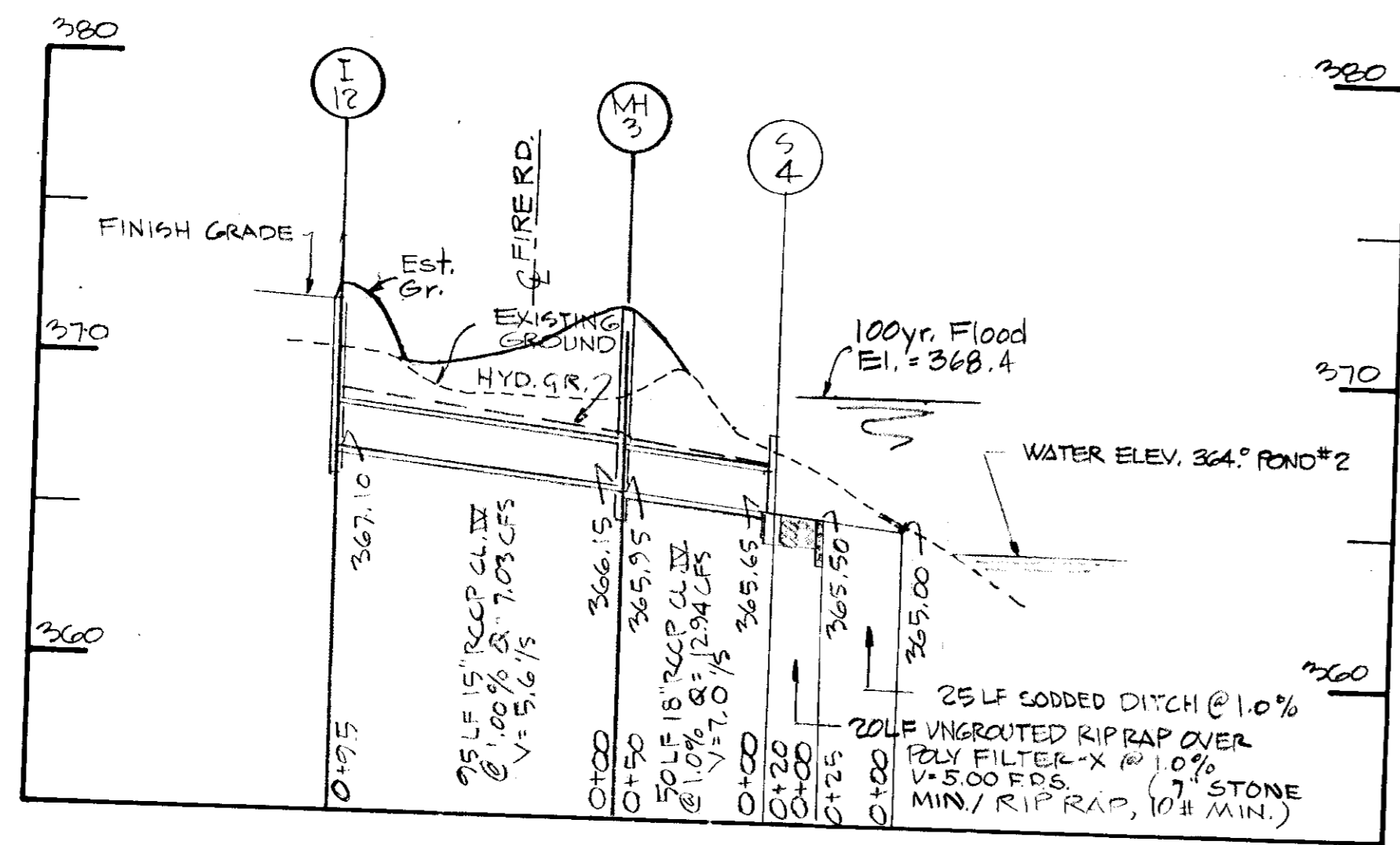
OWNER:
 LUTHERAN HOSPITAL OF MD. INC.
 730 ASHBURTON RD.
 BALTIMORE, MD. 21216

APPROVED
 DIVISION OF LAND DEVELOPMENT

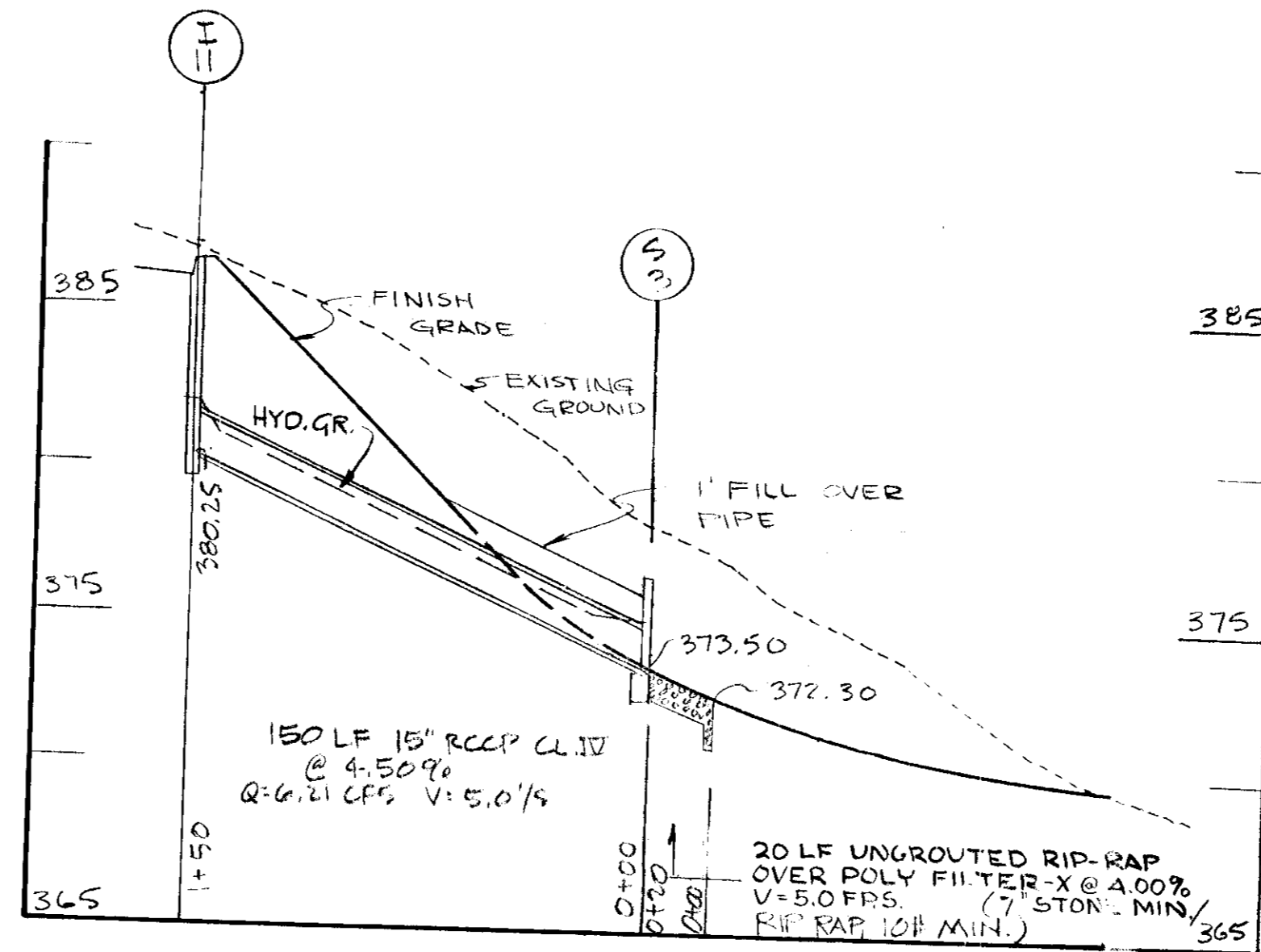
HOWARD COUNTY, MARYLAND
 DATE: 2-14-77

2/22/77
 REV. 1/77
 REV. 9/25/75

STORM DRAIN PROFILES			ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC. BALTIMORE 488-2777 SALISBURY 749-1266 WESTMINSTER 848-5588
HOWARD COUNTY COMMUNITY HOSPITAL			
CALCULATION DISTRICT	HOWARD CO., MD.		
DATE: 2-14-77	BY: [Signature]		
AS SHOWN	TO GO		



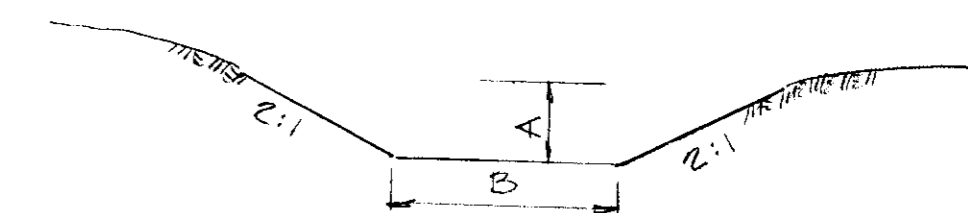
SCALE: HOR. 1"=50'
VERT. 1"=5'



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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF, DIVISION OF LAND DEVELOPMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEM AND ROADS
 DIRECTOR
 CHIEF, BUREAU OF HIGHWAYS

OUTFALL	A	B
S-1	1.0	4.5
S-2	1.7	7.5
S-3	0.5	3.75
S-4	0.7	4.5

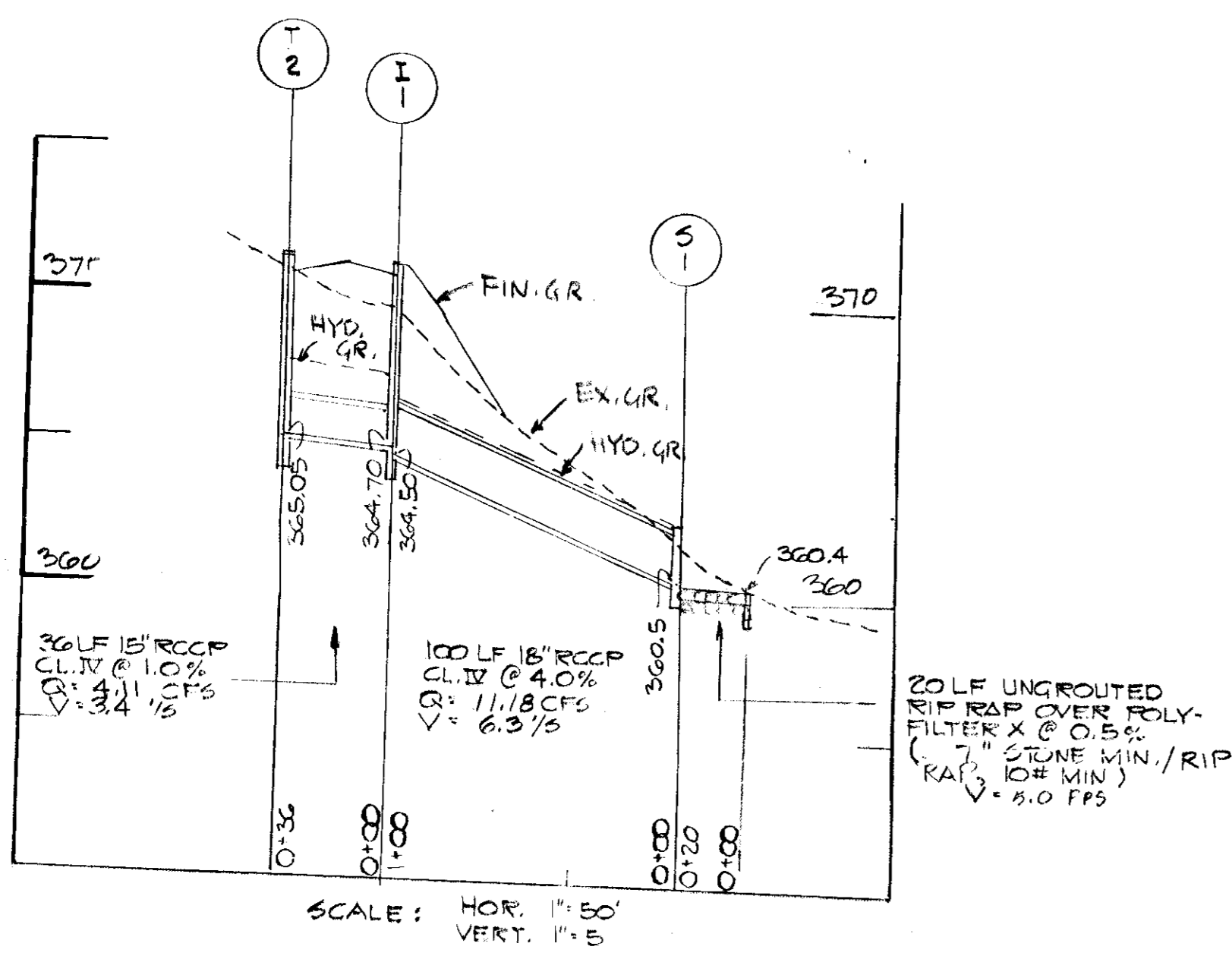


TYPICAL SECTION OF SODDED DITCH
NOT TO SCALE

OUTFALL	A	WP	HR	SL	D	V	Q	AREA
S-1	5.5	7.1	0.77	0.5%	.04	2.21	12.15	11.18
S-2	15.64	12.9	1.21	0.5%	.04	2.98	46.61	46.75
S-3	2.12	4.95	0.43	4.0%	.04	4.10	8.82	6.21
S-4	4.88	6.3	0.67	1.0%	.04	3.12	15.22	12.94

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOPELEV.	REMARKS
I-1	CL. D-10 W/DEFLECTORS	364.70	364.60	371.2	SEE HO. CO. STD. DETAIL G-4-B, PAGE 119-B
I-2	" " " "	365.05	371.2	" " " "	" " " "
I-3	'S' COMB.	374.95	374.75	383.6	" " " "
I-4	'S' COMB. DEPRS.	-	381.95	388.2	" " " " D-08 " 153
I-5	DBL 'S' COMB. DEPRS.	377.67	377.47	383.2	" " " " D-09 " 154
I-6	'S' COMB.	379.31	379.11	386.6	" " " " D-08 " 153
I-7	'S' COMB. DEPRS.	380.47	380.27	386.6	" " " " " " " "
I-8	DBL 'S' COMB. DEPRS.	376.00	375.80	380.5	" " " " D-09 " 154
I-9	'S' COMB.	376.60	376.40	381.5	" " " " D-08 " 153
I-10	DBL 'S' COMB. DEPRS.	-	377.40	381.5	" " " " D-09 " 154
I-11	" " " "	-	380.25	386.4	" " " " " " " "
I-12	" " " "	-	367.10	373.2	" " " " " " " "
MH-1	STD. 4' MANNHOLE	368.00	367.80	373.0	" " " " " " " "
MH-2	" " " "	385.67	385.47	392.0	" " " " " " " "
MH-3	" " " "	366.15	365.95	372.0	" " " " " " " "
S-2	TYPE 'C' ENDWALL	-	366.80	-	" " " " D-52 " 107
S-3	" " " "	-	373.50	-	" " " " " " " "
S-4	" " " "	-	365.65	-	" " " " " " " "
S-1	" " " "	-	360.5	364.0	" " " " " " " "



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

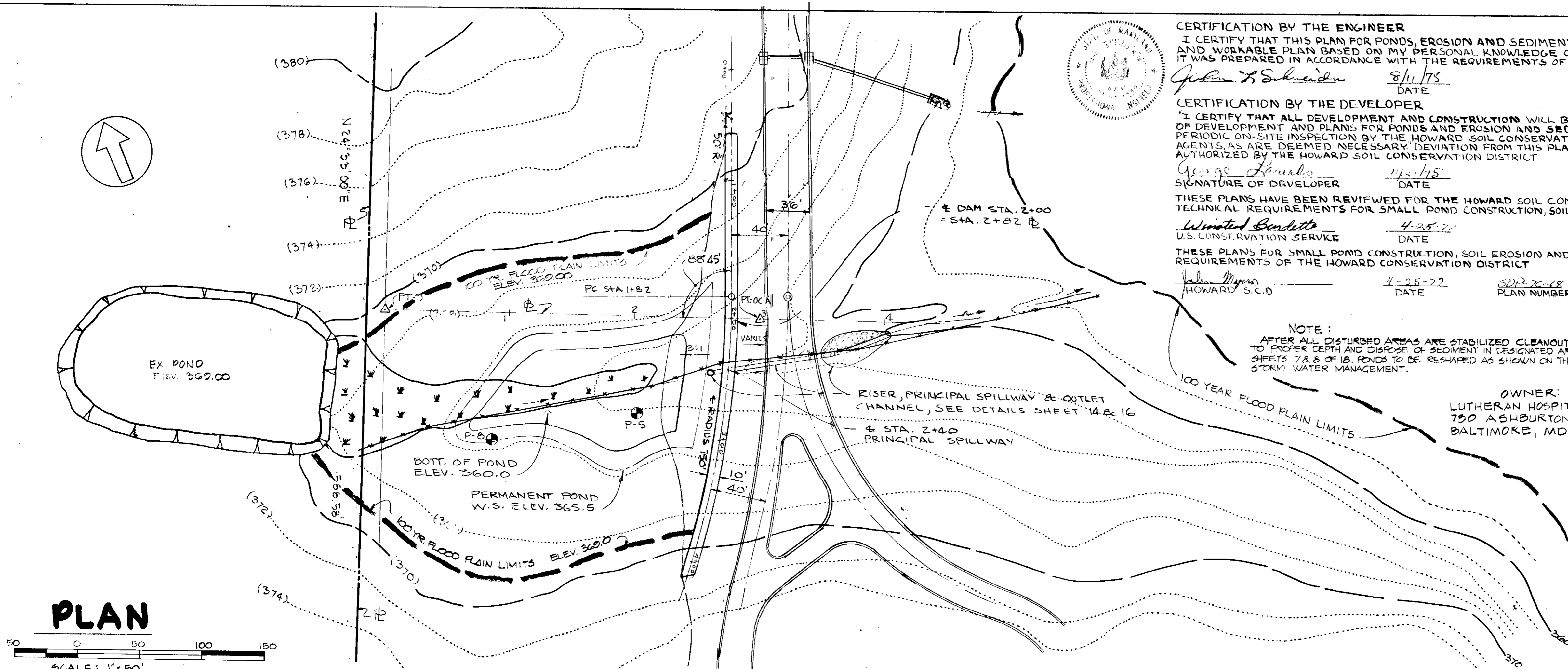
APPROVED
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 2-14-77

OWNER:
LUTHERAN HOSPITAL OF MD. INC.
750 ASHBURTON RD.
BALTIMORE, MD. 21216

2/22/77
1/77
REV. 9/25/75

STORM DRAIN PROFILES		
HOWARD COUNTY COMMUNITY HOSPITAL		
SECOND ELECTION DISTRICT, HOWARD CO., MD.		BOENDER ASSOCIATES INC. BALTIMORE 465-7777 SALISBURY 749-1286 WESTMINSTER 848-5588
DATE: 8-11-75	BY: RSL TD JS	
AS SHOWN	11 OF 18	

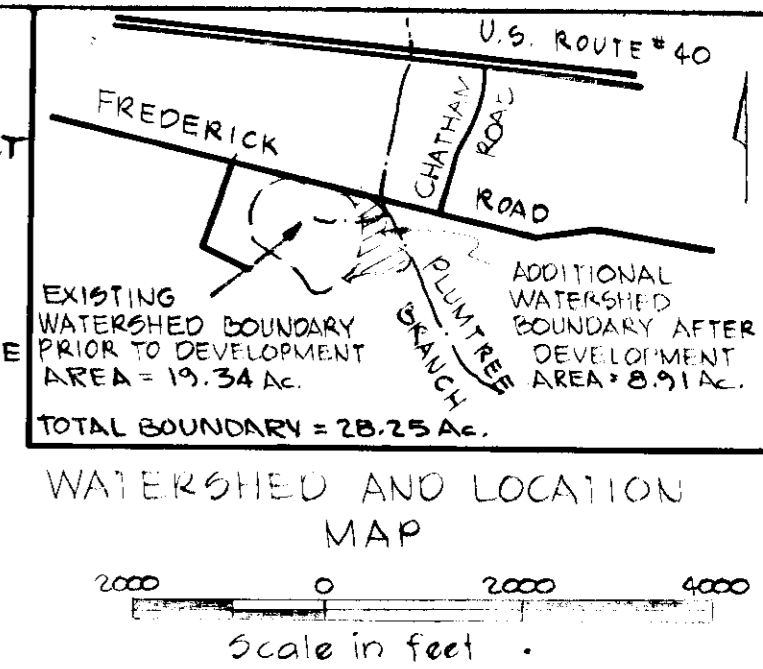


CERTIFICATION BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR PONDS, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT
John F. Schindler 8/11/75
 DATE

CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT
George Loumba 11/2/75
 SIGNATURE OF DEVELOPER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL
Wendell Bonatti 4-25-77
 U.S. CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD CONSERVATION DISTRICT
John Myers 4-25-77 SDP 76-18
 HOWARD S.C.D. DATE PLAN NUMBER



NOTE:
 AFTER ALL DISTURBED AREAS ARE STABILIZED CLEANOUT SEDIMENT IN POND TO PROPER DEPTH AND DISPOSE OF SEDIMENT IN DESIGNATED AREA SHOWN ON SHEETS 7 & 8 OF 18. PONDS TO BE RESHAPED AS SHOWN ON THESE PLANS BY STORM WATER MANAGEMENT.

OWNER:
 LUTHERAN HOSPITAL OF MD. INC.
 700 ASHBURTON RD.
 BALTIMORE, MD. 21216

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John J. Jones 5/6/77
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Harris 5-9-77
 PLANNING DIRECTOR DATE

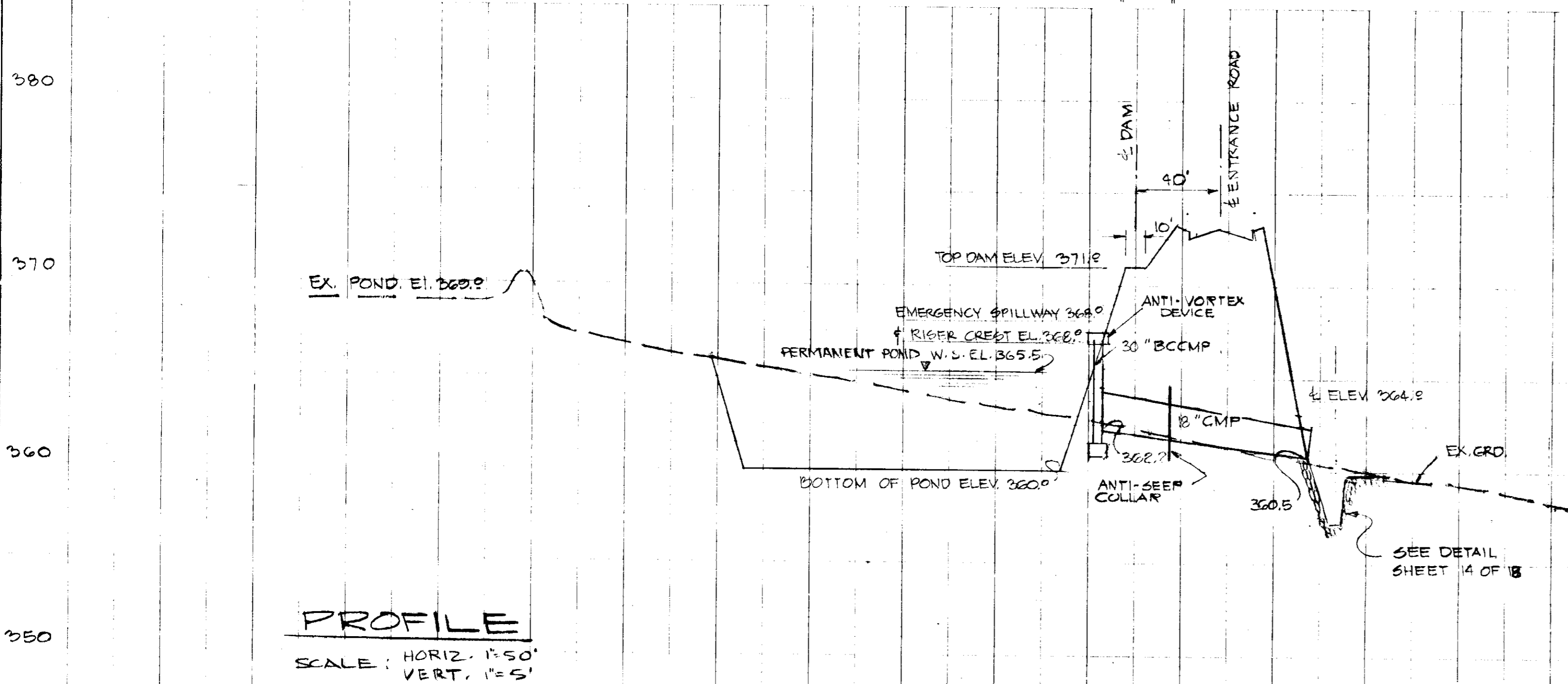
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
John W. Murrellman 5-9-77
 CHIEF, BUREAU OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
W. J. Beatty 5-3-77
 DIRECTOR DATE

Lawrence P. McLeod 5/2/77
 CHIEF, BUREAU OF HIGHWAYS DATE

TITLE S.W. MANAGEMENT - POND # 1		ENGINEERING PLANNING SURVEYING BY
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL		BOENDER ASSOCIATES INC.
LOCATION SECOND ELECTION DISTRICT HOWARD CO. MD.		
DATE 8-11-75	DES. BY RJC	DRAWN BY RJC
		CHKD. BY JS
SCALE AS SHOWN	JOB NO. 7563	DRWG. NO. 12 OF 18

PLAN
 SCALE: 1" = 50'



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

Rev. 100yr Flood Plain W.H.N. 1/77 chk. R.M.

2-14-77
JMM

CERTIFICATION BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR PONDS, 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

John A. Schmitt
 DATE 8/11/75

CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPEMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPEMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT

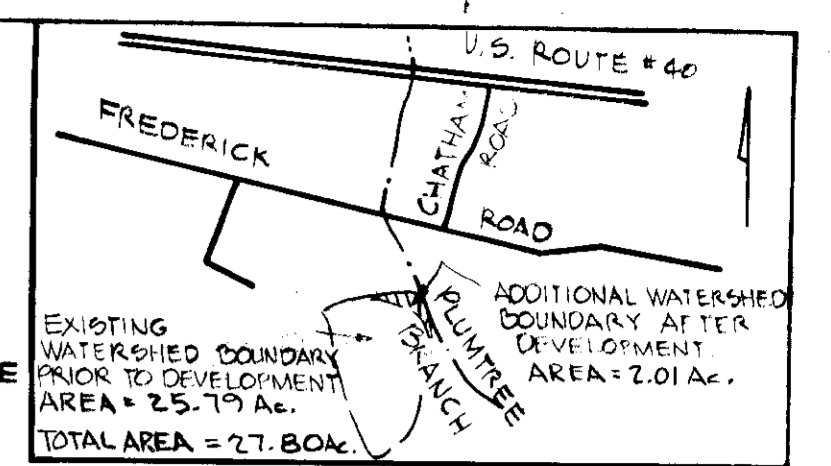
George J. Kinnally
 SIGNATURE OF DEVELOPER DATE 11/21/75

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

Wendell Boudette
 U.S. SOIL CONSERVATION SERVICE DATE 4-25-77

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

John Myers
 HOWARD S.C.D. DATE 4-25-77 PLAN NUMBER SDP-76-18



WATERSHED AND LOCATION MAP
 Scale in feet

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Wendell Boudette 5/6/77
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James J. Amodeo 5-9-77
 PLANNING DIRECTOR DATE

John W. Mueselman 5-9-77
 CHIEF DIVISION OF LAND DEVELOPEMENT DATE

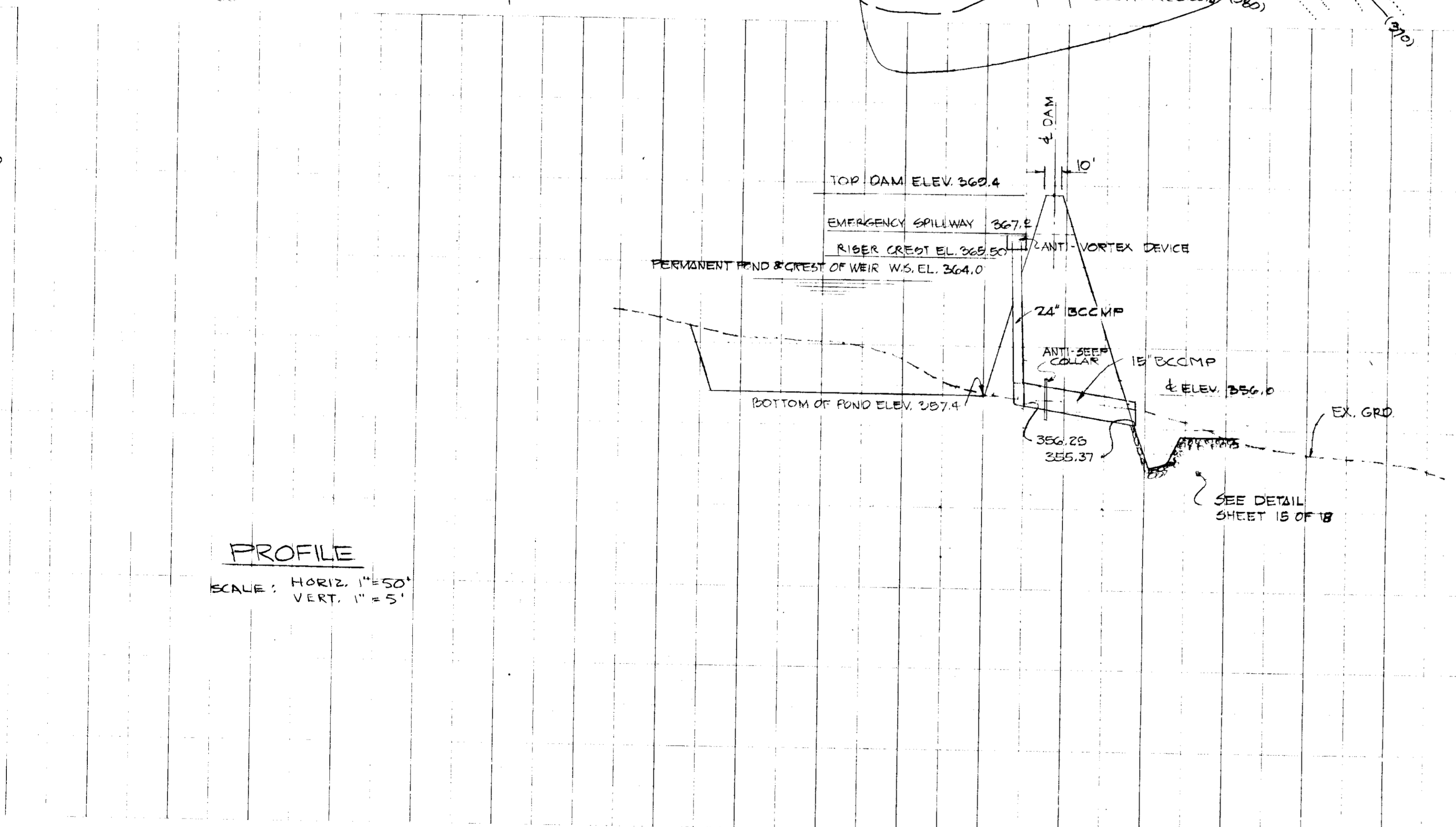
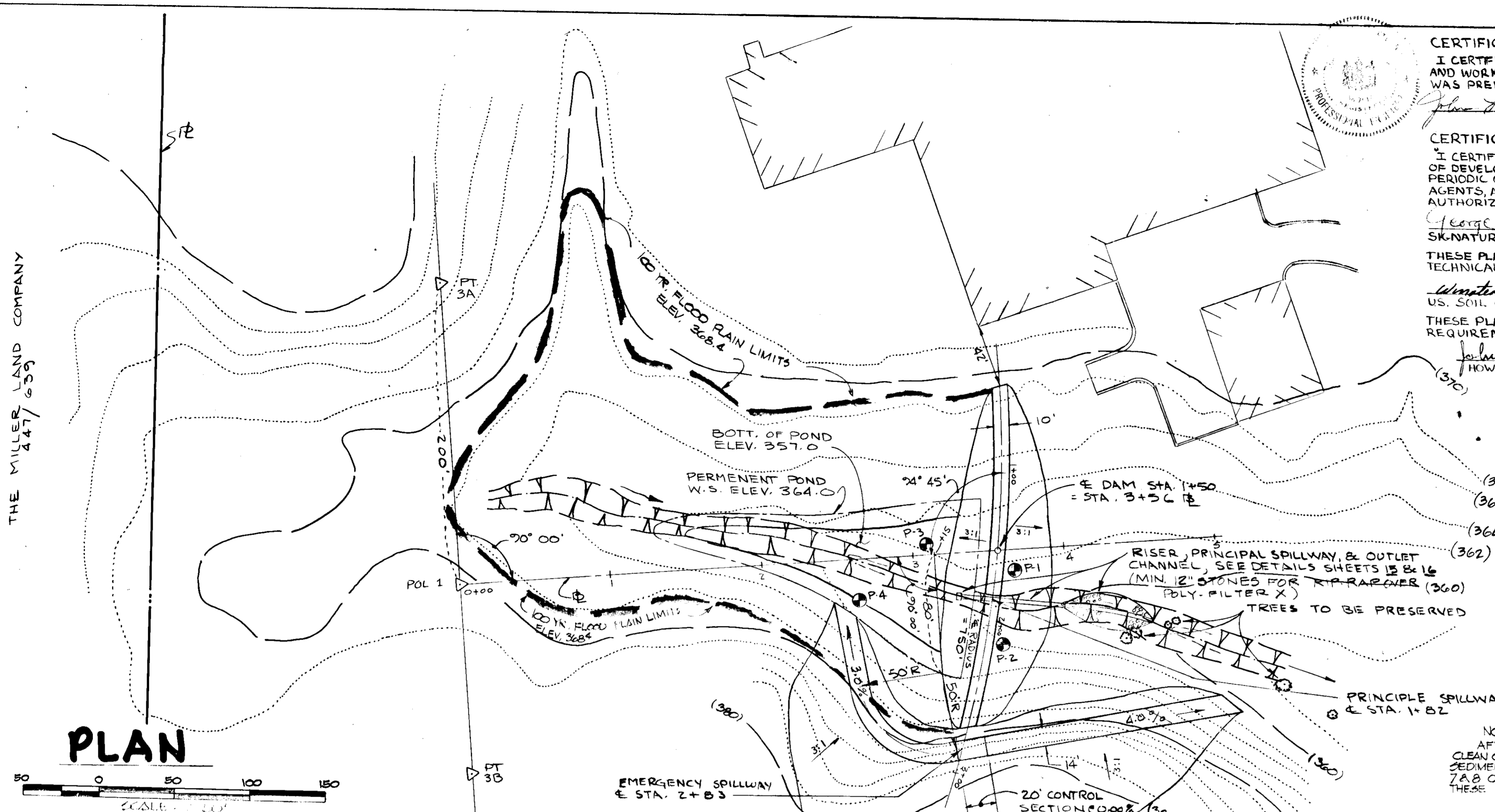
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEM AND ROADS
W. J. Reagan 5-3-77
 DIRECTOR DATE

James W. McNeil 5/2/77
 CHIEF, BUREAU OF HIGHWAYS DATE

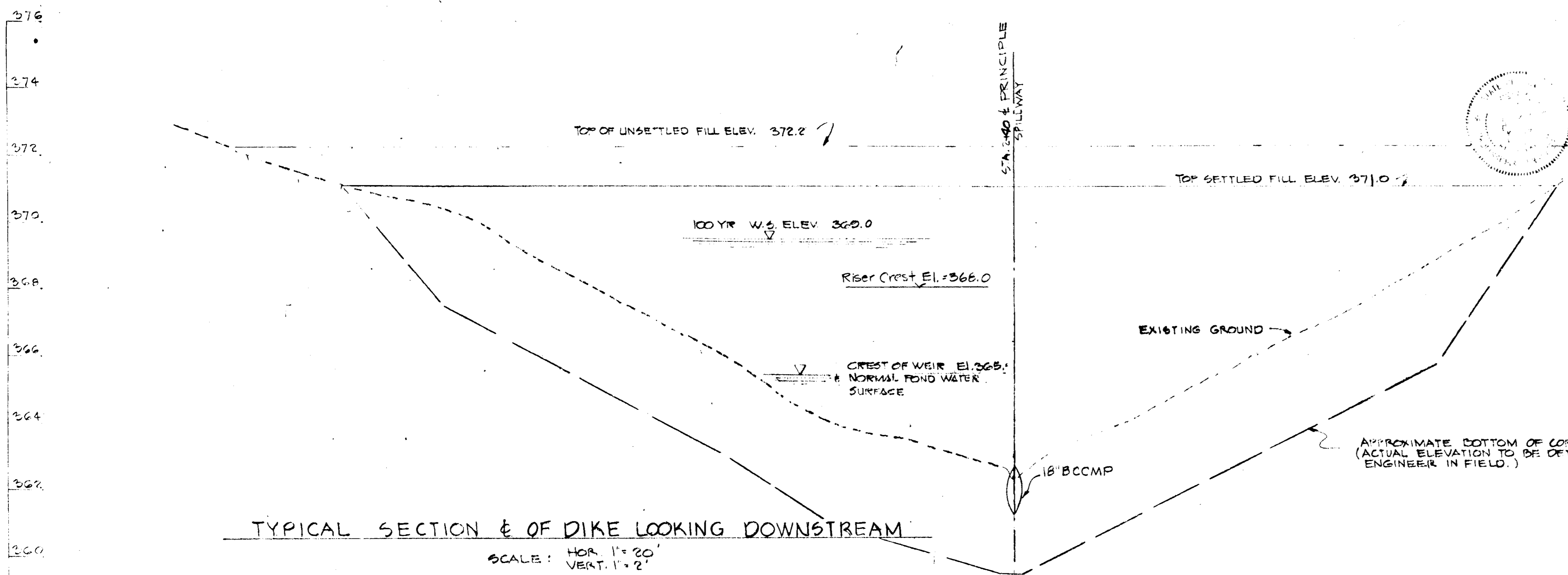
OWNER:
 LUTHERAN HOSPITAL OF MD. INC.
 730 ASHBURTON RD.
 BALTIMORE, MD. 21216

NOTE:
 AFTER ALL DISTURBED AREAS ARE STABILIZED CLEAN OUT POND TO PROPER DEPTH AND DISPOSE OF SEDIMENT IN DESIGNATED AREA SHOWN ON SHEETS 7 & 8 OF 18. POND TO BE RESURFACED AS SHOWN ON THESE PLANS FOR STORM WATER MANAGEMENT.

TITLE S.W. MANAGEMENT - POND # 2		ENGINEERING PLANNING SURVEYING BY	
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL		BOENDER ASSOCIATES INC.	
LOCATION SECOND ELECTION DISTRICT HOWARD CO. MD.		BALTIMORE 488-7777 SALISBURY 749-1296 WESTMINSTER 848-5588	
DATE: 8-11-75	DES. BY: RJC	DRAWN BY: RJC	CHKD. BY: JS
SCALE: AS SHOWN	JOB NO. 7563	DRWG. NO. 13 OF 18	

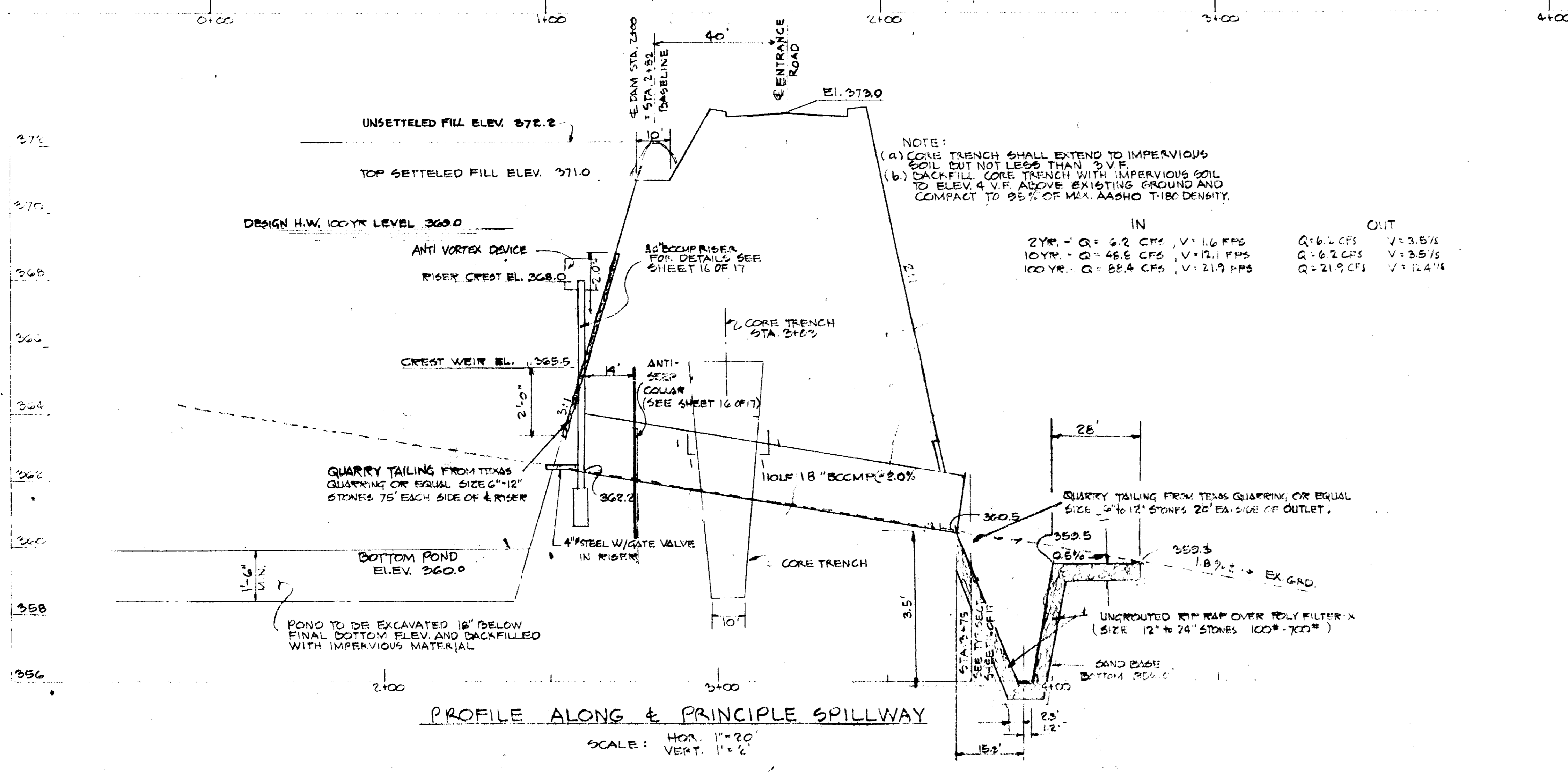


APPROVED
 2-14-77
[Signature]



TYPICAL SECTION & OF DIKE LOOKING DOWNSTREAM

SCALE: HOR. 1" = 20'
VERT. 1" = 2'



PROFILE ALONG & PRINCIPLE SPILLWAY

SCALE: HOR. 1" = 20'
VERT. 1" = 2'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 PLANNING DIRECTOR
 CHIEF DIVISION OF LAND DEVELOPMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS.
 DEPARTMENT OF PUBLIC WORKS DIRECTOR
 CHIEF, BUREAU OF HIGHWAYS

5/6/77
DATE
3-9-77
DATE
5-9-77
DATE

CERTIFICATION BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR PONDS, 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: *John T. Scheider*
 DATE: 8/11/75



CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT
 SIGNATURE OF DEVELOPER: *George Davada*
 DATE: 11/17/75

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENT FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL
 SIGNATURE: *Walter Bunkle*
 DATE: 4/25/77

APPROVED FOR HOWARD S.C.D.
 SIGNATURE: *John Mays*
 DATE: 4-25-77
 PLAN NUMBER: SDP-76-18

NOTE:
 (a) CORE TRENCH SHALL EXTEND TO IMPERVIOUS SOIL BUT NOT LESS THAN 3' V.F.
 (b) BACKFILL CORE TRENCH WITH IMPERVIOUS SOIL TO ELEV. 4' V.F. ABOVE EXISTING GROUND AND COMPACT TO 95% OF MAX. AASHTO TIB DENSITY.

IN		OUT	
2 YR. - Q = 6.2 CFS	V = 1.6 FPS	Q = 6.2 CFS	V = 3.5/8
10 YR. - Q = 48.8 CFS	V = 12.1 FPS	Q = 6.2 CFS	V = 3.5/8
100 YR. - Q = 88.4 CFS	V = 21.9 FPS	Q = 21.9 CFS	V = 12.4"

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 2-14-77
 SIGNATURE: *John T. Scheider*

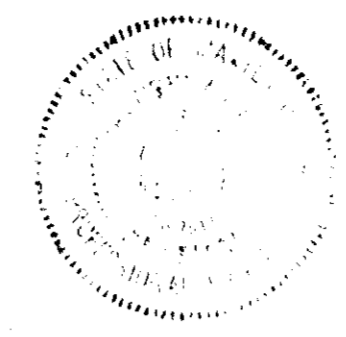
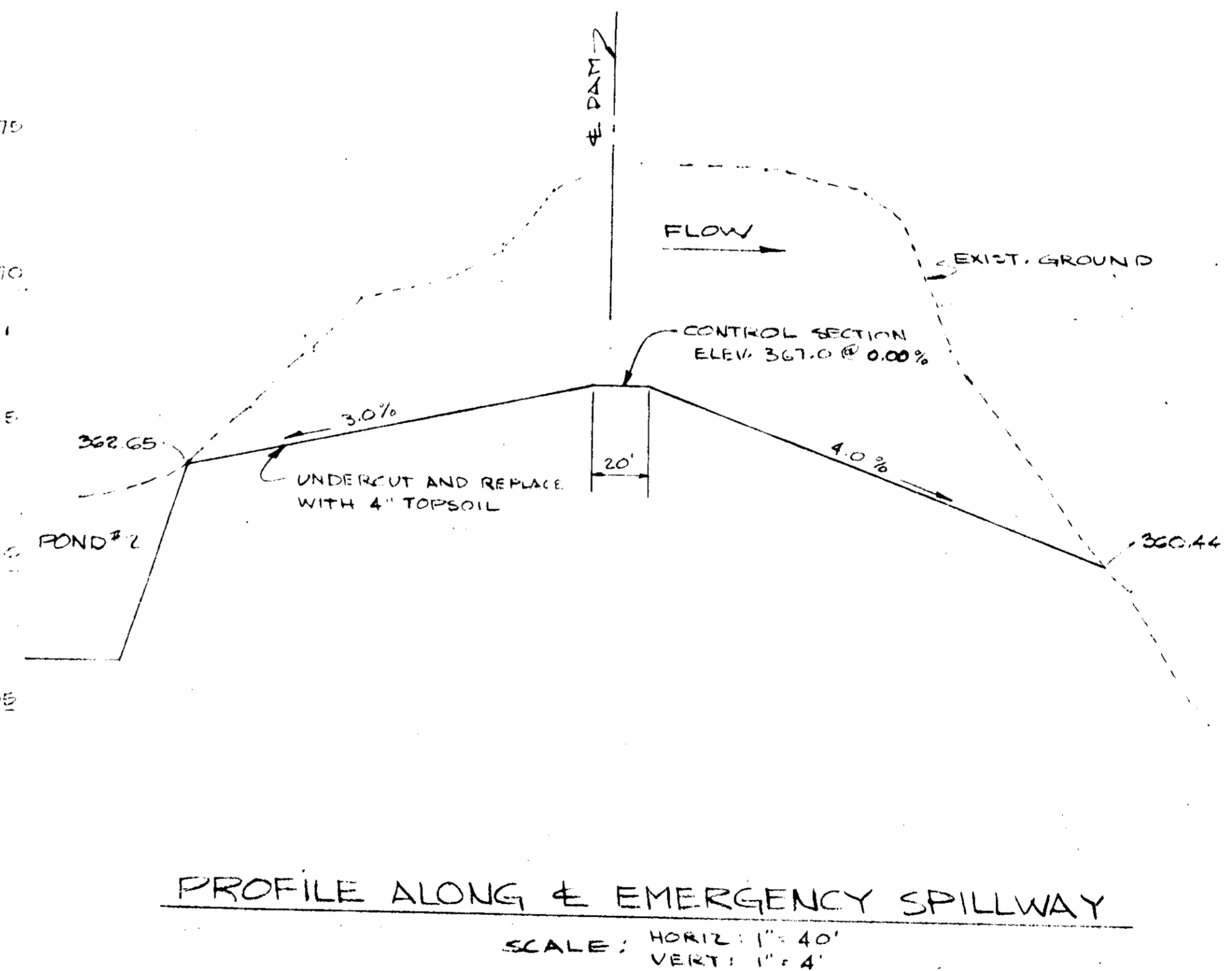
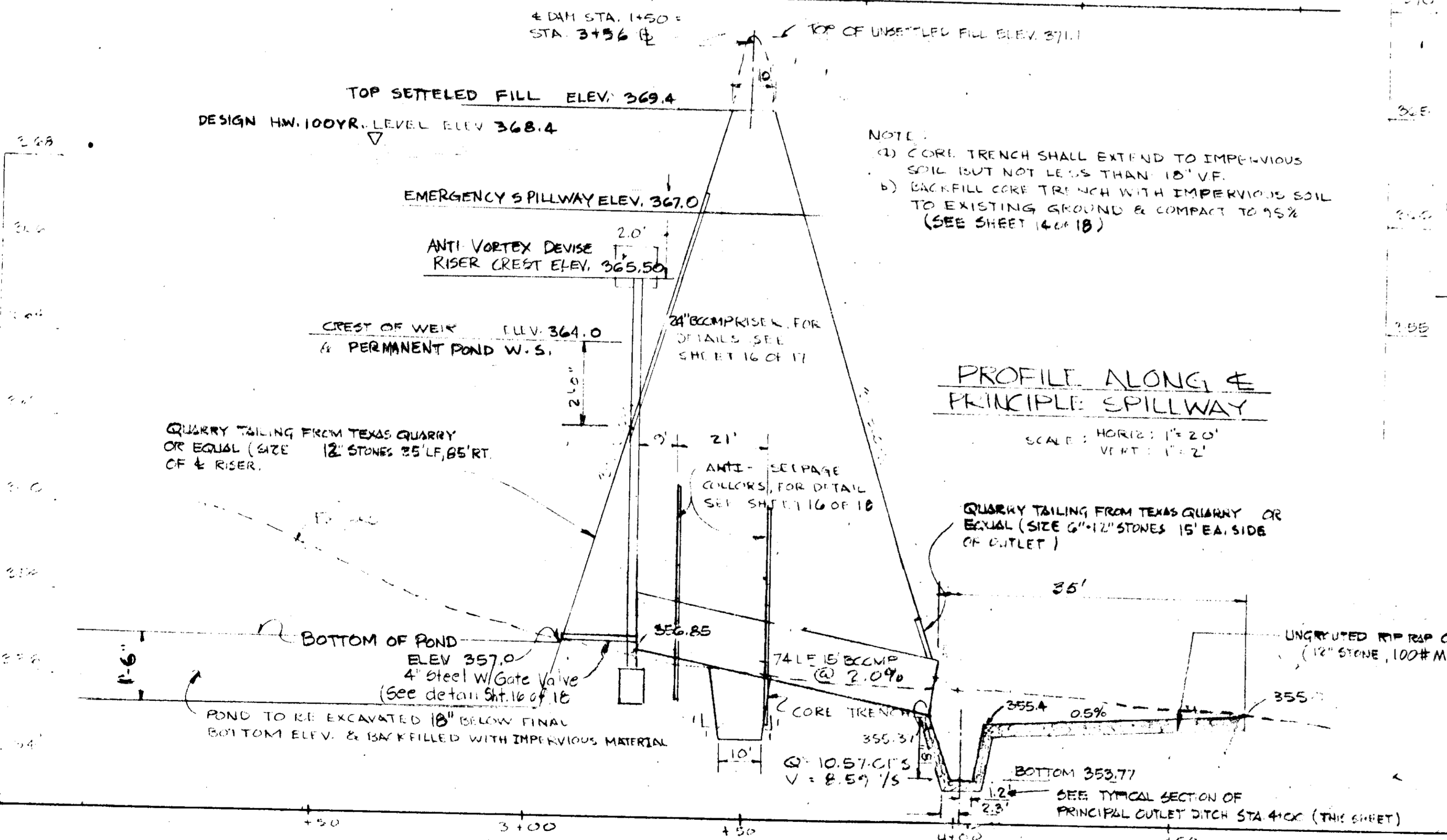
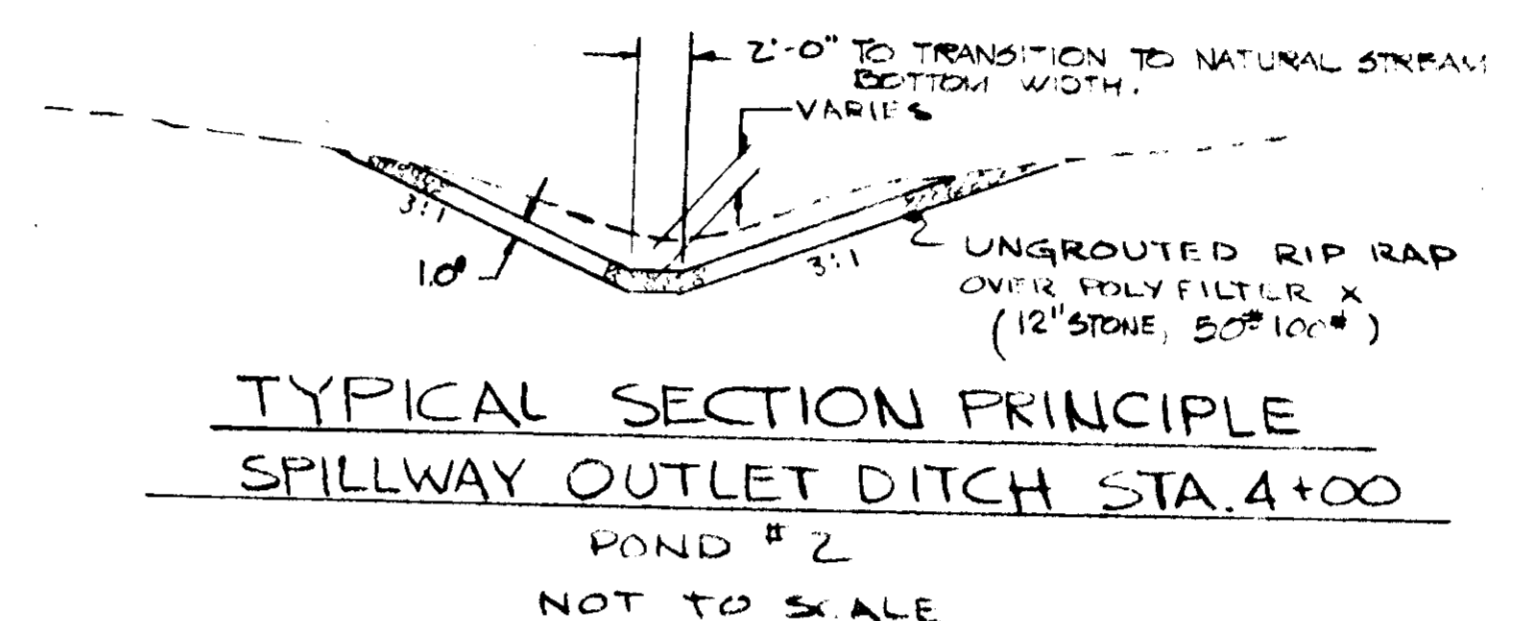
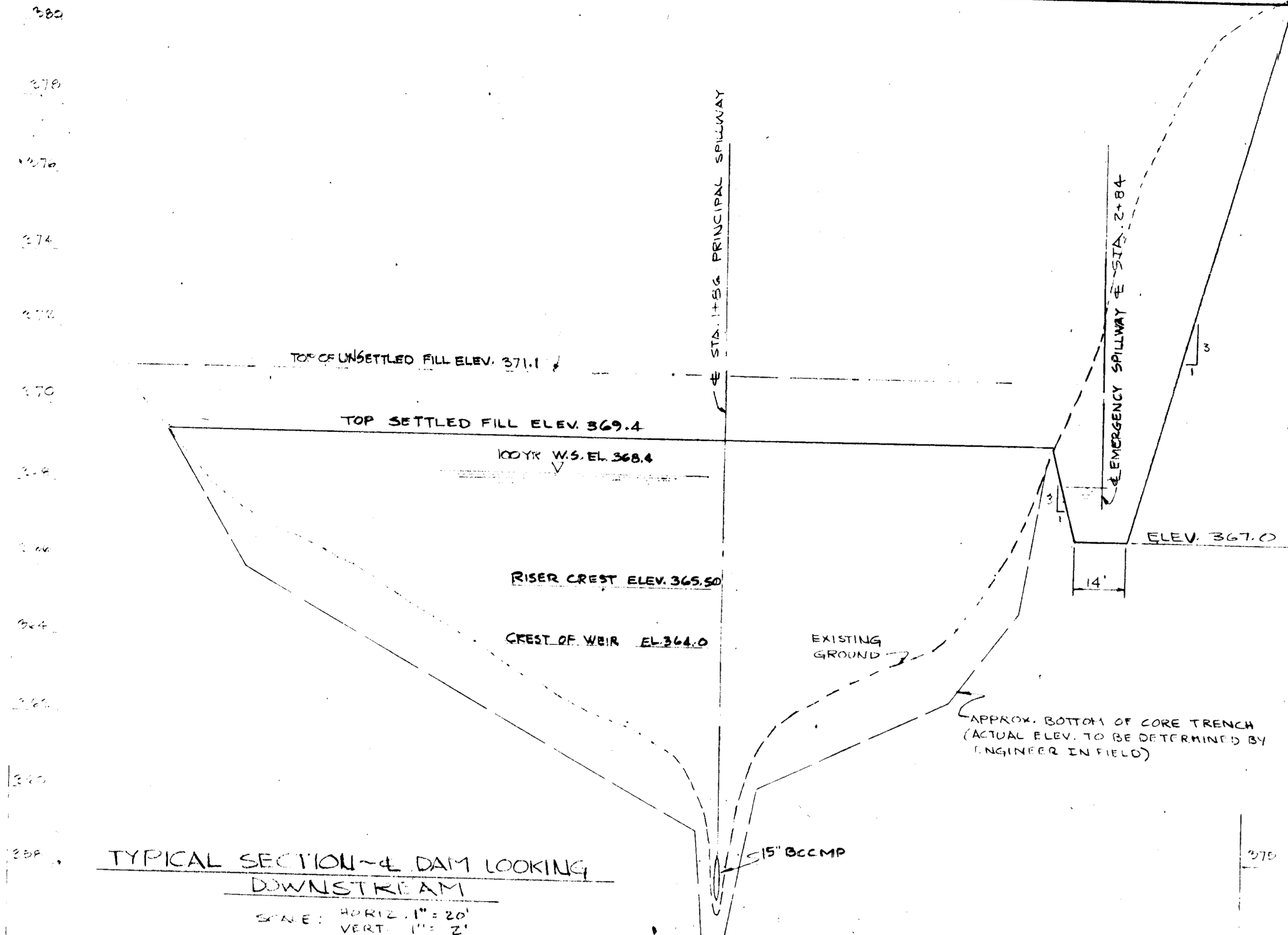


OWNER:
 LUTHERAN HOSPITAL OF MD, INC.
 7777 ASHBURTON RD.
 BALTIMORE, MD 21284

2/27/77
 SIGNATURE: *Rodolph May Jr.*
 DATE: 2-22-77

TITLE S.W. MANAGEMENT - POND NO. 1			
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO. MD.			
DATE: 8/11/75	DES. BY: RSL		DRAWN BY: JCB
SCALE: AS SHOWN	JOB NO. 76-18		DRWG. NO. 14 OF 18

SDP-76-18



CERTIFICATION BY THE ENGINEER
I CERTIFY THIS PLAN FOR PONDS, 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
John L. Schneider 8/11/75 DATE

CERTIFICATION BY THE DEVELOPER
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
Rodolph May Jr. 2-22-77 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL PONDS, SOIL EROSION AND SEDIMENT CONTROL
George Paulino 4/20/77 DATE
SIGNATURE OF DEVELOPER
U.S. SOIL CONSERVATION DISTRICT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT
John Meyer 4-25-77 DATE
APPROVED HOWARD S.C.D. SDP-76-18 PLAN NUMBER

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
HOWARD COUNTY HEALTH DEPARTMENT
James O. Bradley 5/6/77 DATE
COUNTY HEALTH OFFICER
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas B. Hamill 5-9-77 DATE
PLANNING DIRECTOR
John W. McMillan 5-9-77 DATE
CHIEF DIVISION OF LAND DEVELOPMENT
APPROVED FOR PUBLIC WATER AND SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
Raymond J. ... 5-3-77 DATE
DIRECTOR
James M. McKeand 5/3/77 DATE
CHIEF, BUREAU OF HIGHWAYS

NOTE:
a) CORE TRENCH SHALL EXTEND TO IMPERVIOUS SOIL BUT NOT LESS THAN 10' V.F.
b) BACKFILL CORE TRENCH WITH IMPERVIOUS SOIL TO EXISTING GROUND & COMPACT TO 95% (SEE SHEET 4 OF 18)

PROFILE ALONG 4 PRINCIPLE SPILLWAY

SCALE: HORIZ: 1" = 20'
VERT: 1" = 2'

PROFILE ALONG 4 EMERGENCY SPILLWAY

SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 2-14-77
JLM

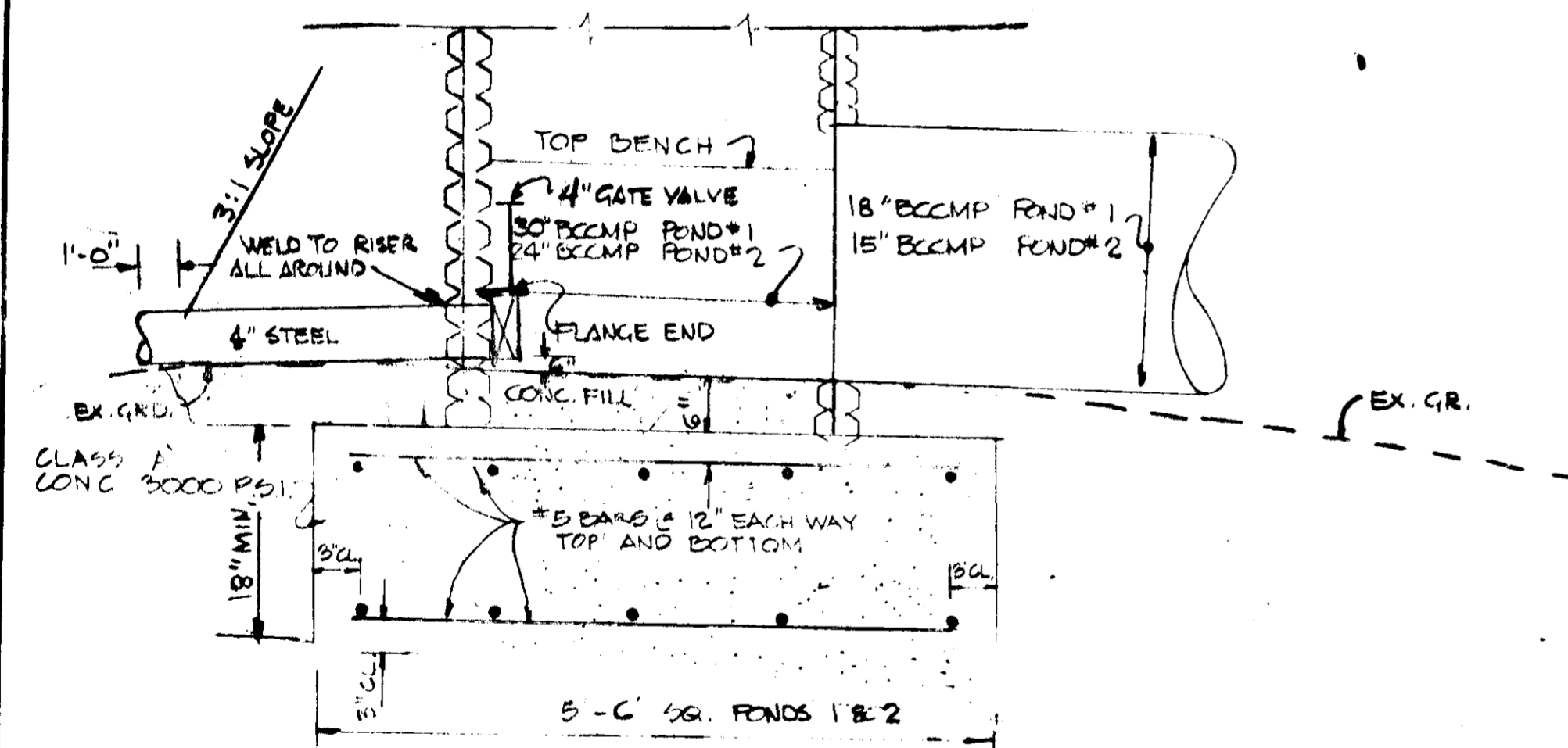
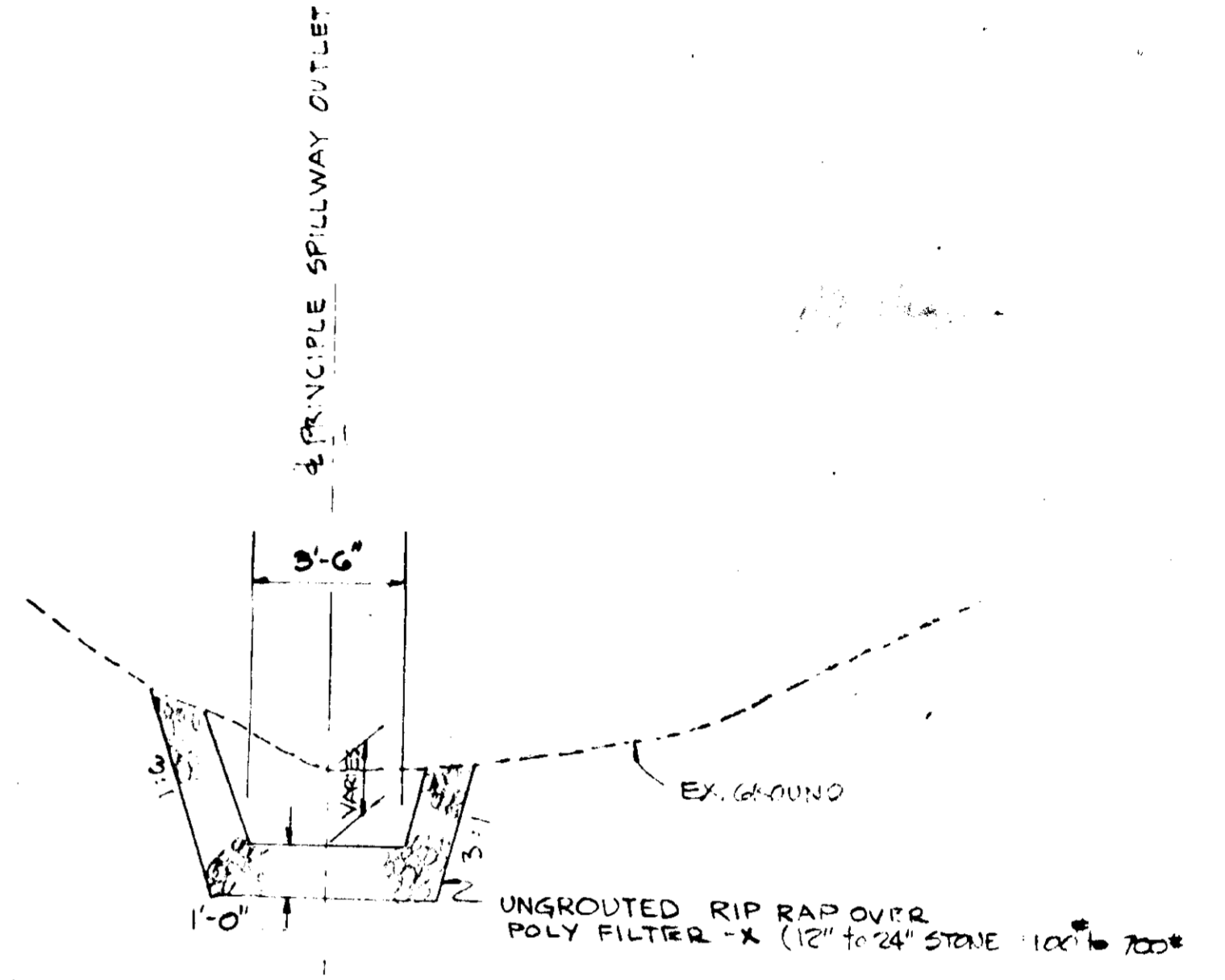
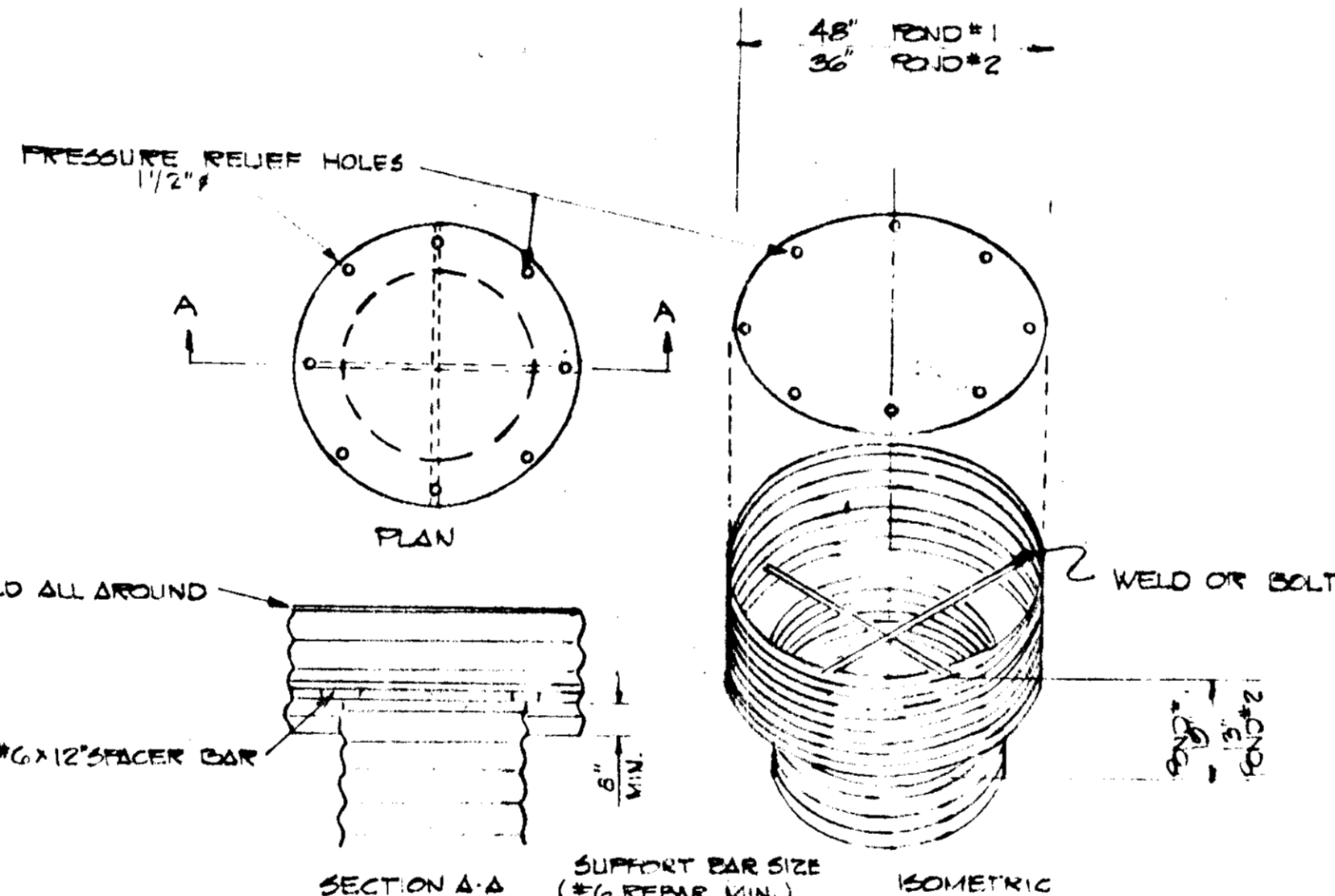
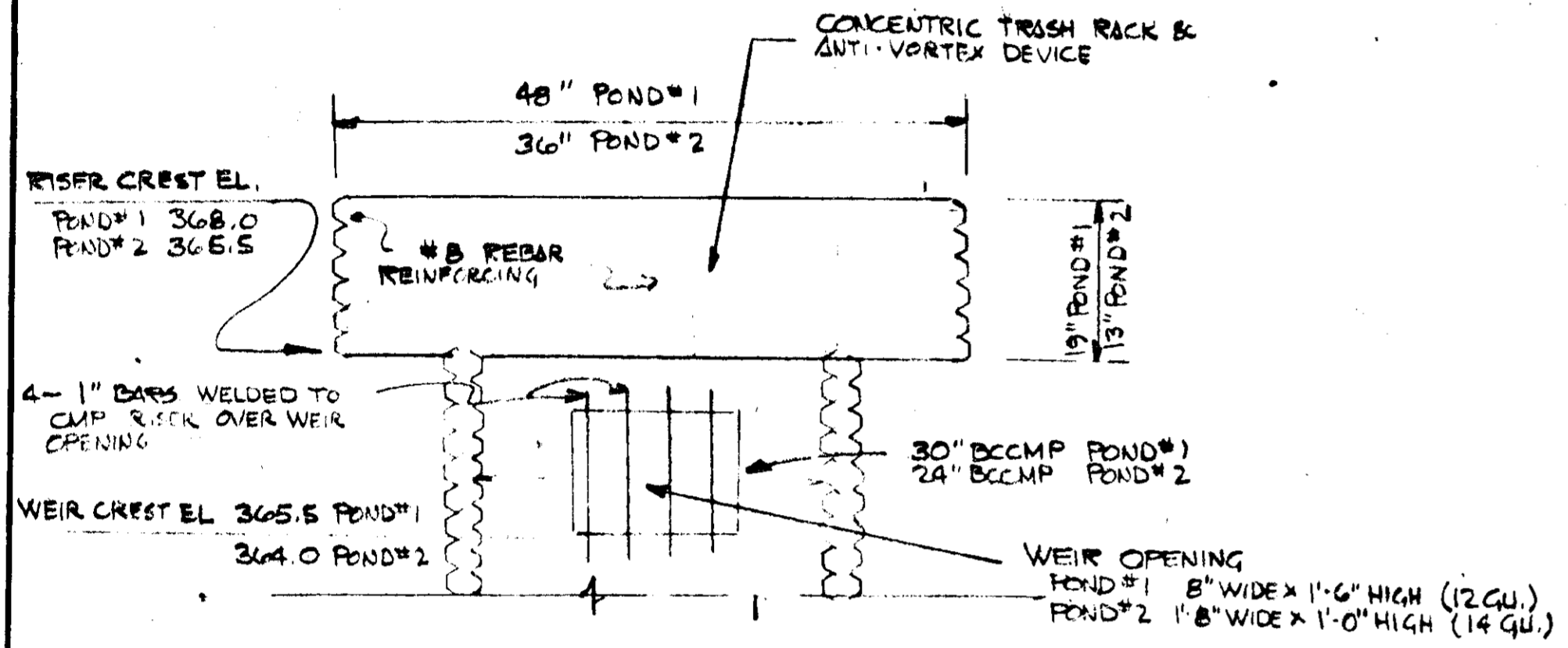
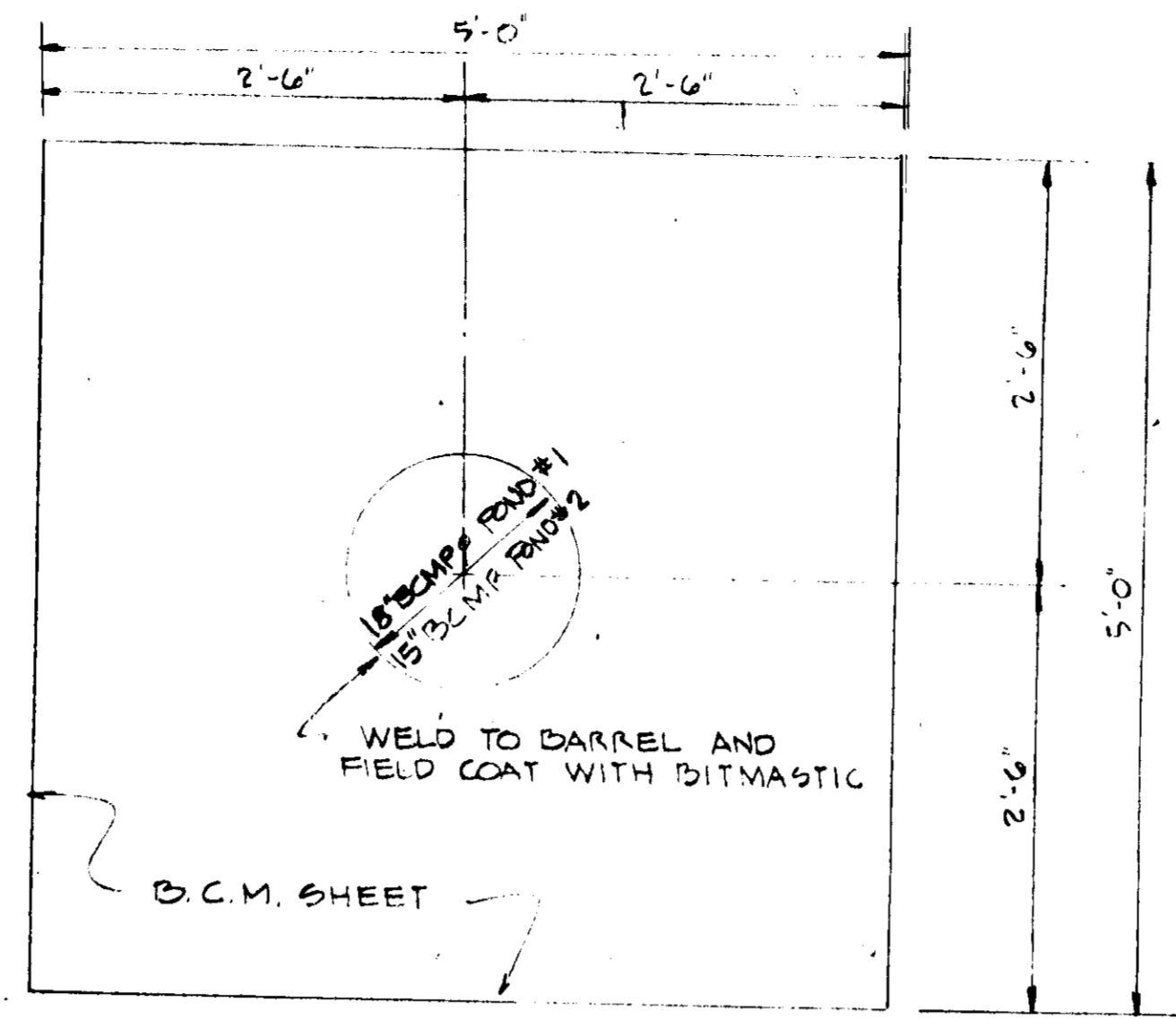
Rodolph May Jr. 2-22-77

OWNER
LUTHERAN HOSPITAL OF MD, INC.
780 ASHBURTON RD.
BALTIMORE, MD. 21216

TITLE S.W. MANAGEMENT - POND # 2			
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL			
LOCATION SECOND ELECTION DISTRICT HOWARD CO. MD.			
DATE: 8-11-75	DES BY: R.J.L.	DRAWN BY: R.J.L.	CRD BY: J.S.
SCALE: AS SHOWN	JOB NO.: 1363	DRAWING NO.: 12 OF 18	

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE 465-7777
SALISBURY 749-1286
WESTMINSTER 848-3588

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE



I. SITE PREPARATION
THE EMBANKMENT AREA (FILL), EMERGENCY SPILLWAYS, BORROW AREA AND OUTLET CHANNEL SHALL BE CLEARED AND GRUBBED TO REMOVE ALL TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL. THE TOPSOIL FROM THE EMBANKMENT AREA, EMERGENCY SPILLWAYS, AND BORROW AREA SHALL BE REMOVED AND STOCKPILED. THE TOPSOIL SHALL BE SPREAD ON THE COMPLETED EMBANKMENT AND EMERGENCY SPILLWAY.

II. EARTH FILL
MATERIAL: THE FILL MATERIAL SHALL BE OBTAINED FROM THE CORE TRENCH EXCAVATION, THE EMERGENCY SPILLWAY EXCAVATION, AND THE ORIGINATED BORROW AREA. IT SHALL BE FREE FROM ROOTS, STUMPS, LOGS, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE CONSTRUCTED TO THE ELEVATIONS AS SHOWN ON SHEETS OF THIS PLAN FOR ANTICIPATED SETTLEMENT.

PLACEMENT: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN 6" 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 PORTION 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 KEPT MOIST BY NOT LESS THAN ONE INCH OF WATER. THE ENTIRE SURFACE OF EACH LIFT SHALL BE KEPT MOIST BY NOT LESS THAN ONE INCH OF WATER. THE ENTIRE SURFACE OF EACH LIFT SHALL BE KEPT MOIST BY NOT LESS THAN ONE INCH OF WATER. THE ENTIRE SURFACE OF EACH LIFT SHALL BE KEPT MOIST BY NOT LESS THAN ONE INCH OF WATER.

CONSTRUCTION SPECIFICATIONS

III. STRUCTURAL BACKFILL
BACKFILL MATERIAL SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ASSUMING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4" THICKNESS AND COMPACTED BY HAND TAMING OR MANUALLY OPERATED POWER TAMPERS OR PLATE VIBRATORS AT NOT MORE THAN 4" PER LIFT. OPERATOR SHALL GIVE EQUIPMENT BE MOVED TO AT LEAST ONE (1) INCH FROM THE 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 LAYER OF 24" THICK OR GREATER WITH THE STRUCTURE OR PIPE.

IV. PIPE CONDUIT
MATERIAL: GALVANIZED COATED CORRUGATED METAL PIPE, 18" DIA., 1/8" GAUGE AND 50' X 50' ARCH - 12 GAUGE. ARCH PIPE TO BE ONE CONTINUOUS LENGTH AND TO HAVE WATER TIGHT COUPLING BANDS IF STANDARD LENGTH ARE TO BE USED. ALL JOINTS AND COUPLING BANDS TO BE FIELD WELDED WITH BITUMASTIC.

INSTALLATION: PIPE SHALL BE PLACED IN A TRENCH EXCAVATED TO THE DEPTH AND WIDTH SHOWN ON THE PLANS. THE TRENCH SHALL BE BACKFILLED WITH STRUCTURAL BACKFILL AS SHOWN ABOVE. OTHER DETAILS (ANTI-SEEP COLLARS, PROPERLY OUTLET, ETC.) SHALL BE AS SHOWN ON THE PLANS.

V. CONCRETE
CONCRETE SHALL MEET MINIMUM REQUIREMENTS SET FORTH IN MARYLAND STATE ROAD COMMISSION SPECIFICATIONS FOR MATERIALS HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES, ARTICLE 60.07 (PORT AND CEMENT MIXTURE) CLASS A-1 OR P-1.

VI. STABILIZATION
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONCAVE CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY AND BORROW AREAS SHALL BE STABILIZED BY SEEDING AND APPLYING STRAW MULCH IN ACCORDANCE WITH STANDARDS AND ONLY THAT ONE FOR SOIL EROSION AND SEDIMENT CONTROL IN URBANIZING AREAS IMMEDIATELY AFTER FINISH GRADING.

CERTIFICATION BY THE ENGINEER
I CERTIFY THAT THIS PLAN FOR FLOOD PROTECTION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN FOR PROTECTING AND IMPROVING THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John A. Schiele 4/1/77 DATE
REGISTERED PROFESSIONAL ENGINEER

CERTIFICATION BY THE DEVELOPER
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR FLOOD PROTECTION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE FIELD ON SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

George Daviako 4/1/77 DATE
REGISTERED PROFESSIONAL DEVELOPER

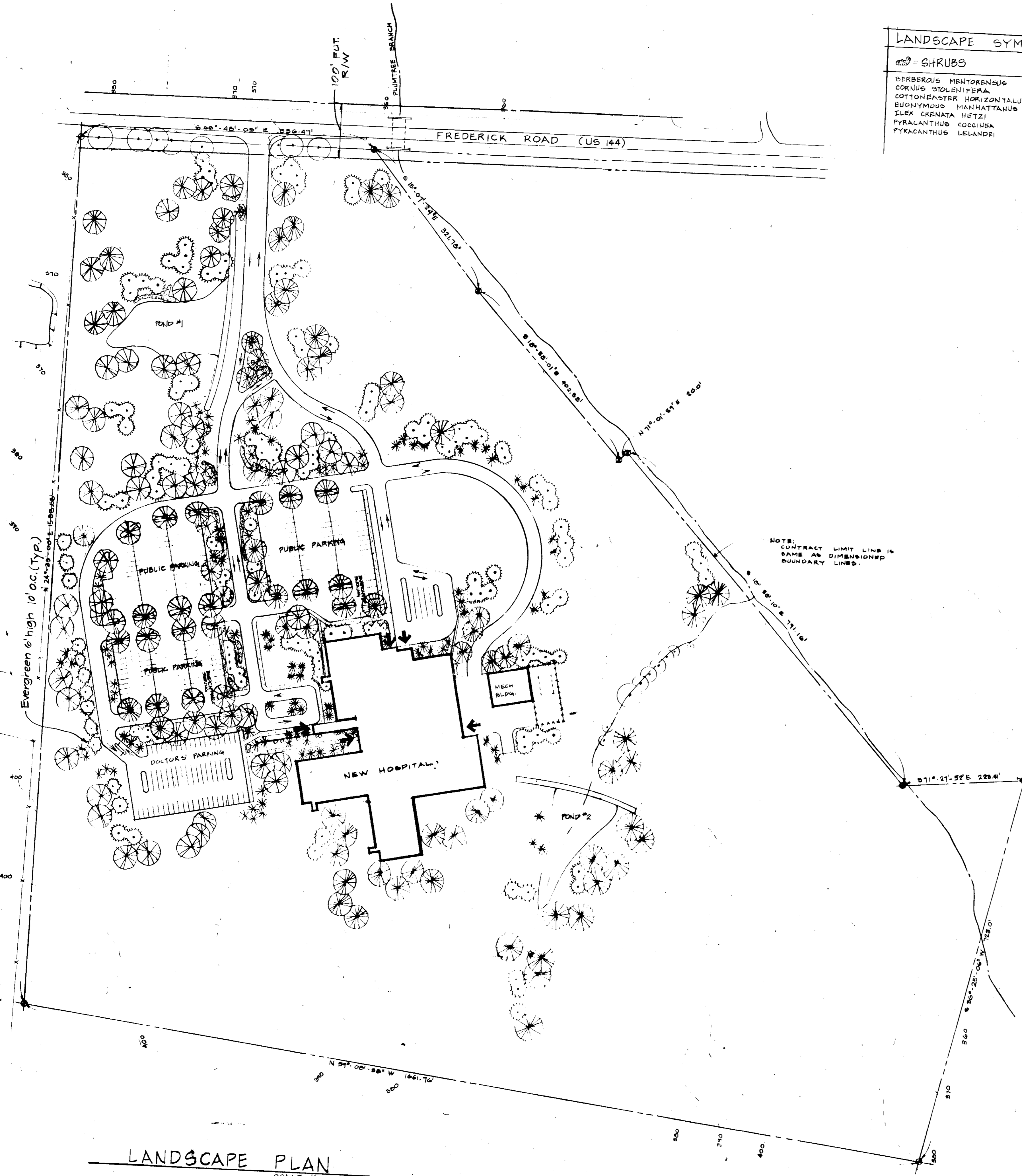
John Myers 4-28-77 DATE SDP-76-18 PLAN NUMBER
REGISTERED HOWARD SCD

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.

Wendell Bunkle 4-25-77 DATE
USDA SOIL CONSERVATION SERVICE

Rodolph May Jr. 2-22-77 DATE
OWNER
LUTHERAN HOSPITAL OF MD, INC.
750 ASHBLURTON RD.
BALTIMORE, MD. 21216

TITLE DETAILS - PONDS 1 AND 2		ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC.	
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL		BALTIMORE, MD. 465-7777 SALISBURY, MD. 741-1286 WESTMINSTER, MD. 848-0588	
LOCATION SECOND ELECTION DISTRICT HOWARD CO. MD.		DATE 4-11-77	
DESIGNER RSL	DRAWN BY LD	CHECKED BY JLS	DATE 2/17/77
SCALE AS SHOWN	JOB NO. 15-001	DRWG. NO. 16 OF 18	DATE 2-22-77



LANDSCAPE SYMBOLS			
<p>SHRUBS</p> <ul style="list-style-type: none"> BERBERIS MENTORENSIS CORNUS STOLONIFERA COTONEASTER HORIZONTALIS EUNYMUS MANHATTANUS SILEX CRENATA RETZ PYRACANTHUS COCCINEA PYRACANTHUS LELANDEI 	<p>FLOWERING TREES</p> <ul style="list-style-type: none"> CERCIS CANADENSIS CORNUS FLORIDA CRATAEGUS OREGANA KOELKUTSUS PANICULATA MALUS DOROTHEA MALUS FLORAEUNDA MALUS KATHERINE FRAXINUS THUNDERCLOUD 	<p>EVERGREENS</p> <ul style="list-style-type: none"> FINUS NIGRA FINUS RESINUS FINUS SYLVATICA PICEA ASIENSIS PICEA PINGENS GLAUCA PODODENDRA TAXIFOLIA TAXODIUM DISTICHUM JUNIPERUS COMPACTUS TAXUS PENNSYLVANICA 	<p>EXISTING TREES</p> <p>SHADE TREES</p> <ul style="list-style-type: none"> ACER PLATANOIDES ACER PLATANOIDES V. CRIMSON KING A. RUBRUM A. SACCHARUM BETULA NIGRA CELTIS OCCIDENTALIS FRAXINUS AMERICANA FRAXINUS LANCEOLATA QUADRANGULATA GINKGO BILOBA GLEDITIA MORRANUS LIQUIDAMBAR STYRACIFOLIA LIRIODENDRON TULIPIFERA QUERCUS ALBA QUERCUS BOREALIS QUERCUS PHELLOS QUERCUS PALUSTRIS QUERCUS RUBRA QUERCUS HYBRIDARIA GALIX BABYLONICA TILIA AMERICANA TILIA CORDATA POPULUS ITALIANUS

NOTE: CONTRACT LIMIT LINE IS SAME AS DIMENSIONED BOUNDARY LINES.

Evergreen 6' high 10' oc. (Typ.)

LANDSCAPE PLAN
SCALE: 1"=100'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joseph Boylen
 COUNTY HEALTH OFFICER 5/6/77
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Harris
 PLANNING DIRECTOR 5-9-77
 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT 5-9-77
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
D. J. [Signature]
 DIRECTOR 5-9-77
 DATE

Lawrence M. McLeod
 CHIEF, BUREAU OF HIGHWAYS 5-13-77
 DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT
 2-14-77
[Signature]

OWNER:
 LUTHERAN HOSPITAL OF MD. INC.
 730 ASHBURTON RD.
 BALTIMORE, MD. 21216



TITLE LANDSCAPING PLAN			
PROJECT HOWARD COUNTY COMMUNITY HOSPITAL			
LOCATION 2 ND ELECTION DISTRICT HOWARD CO. MD.			
DATE 11-25-75	DES. BY DP	DRAWN BY DP	CHKD BY BH
SCALE: SHOWN		JOB NO.: 7563	DRWG. NO.: 18 OF 18