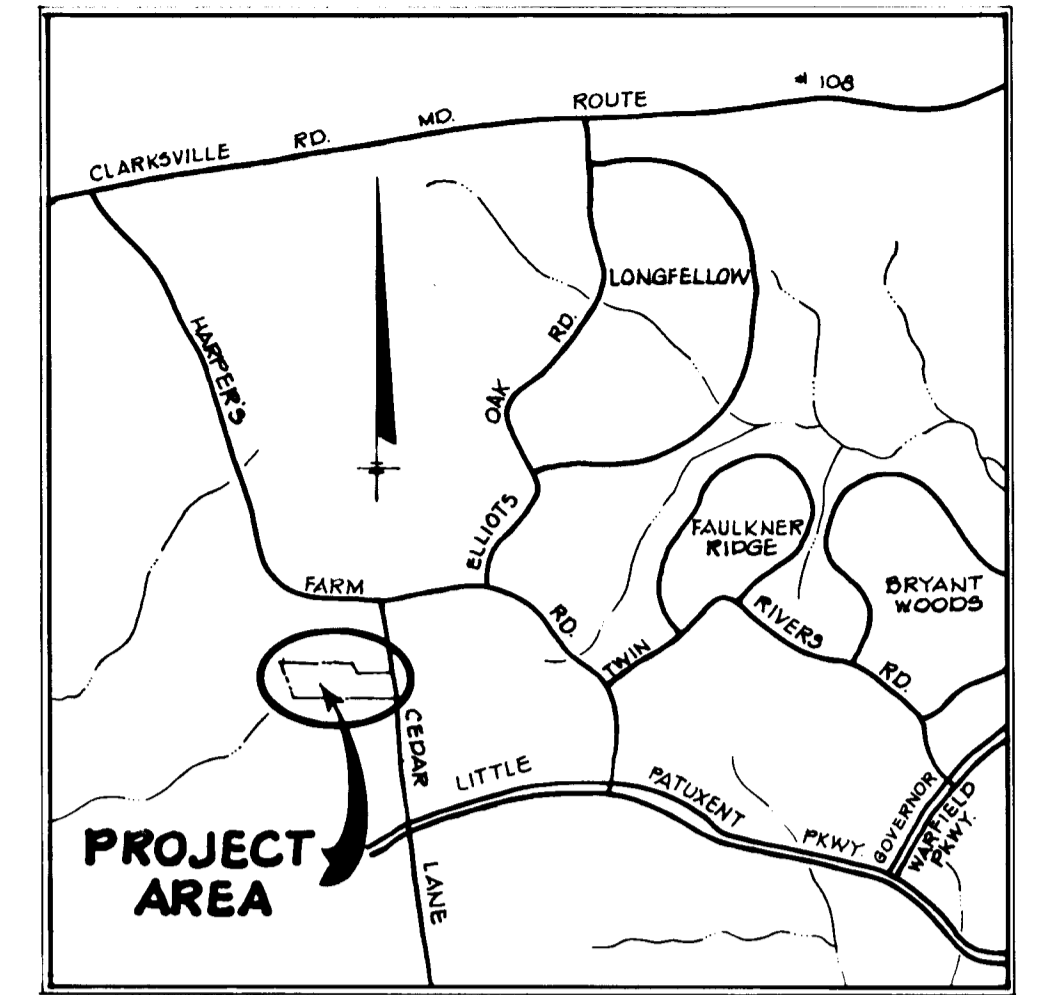
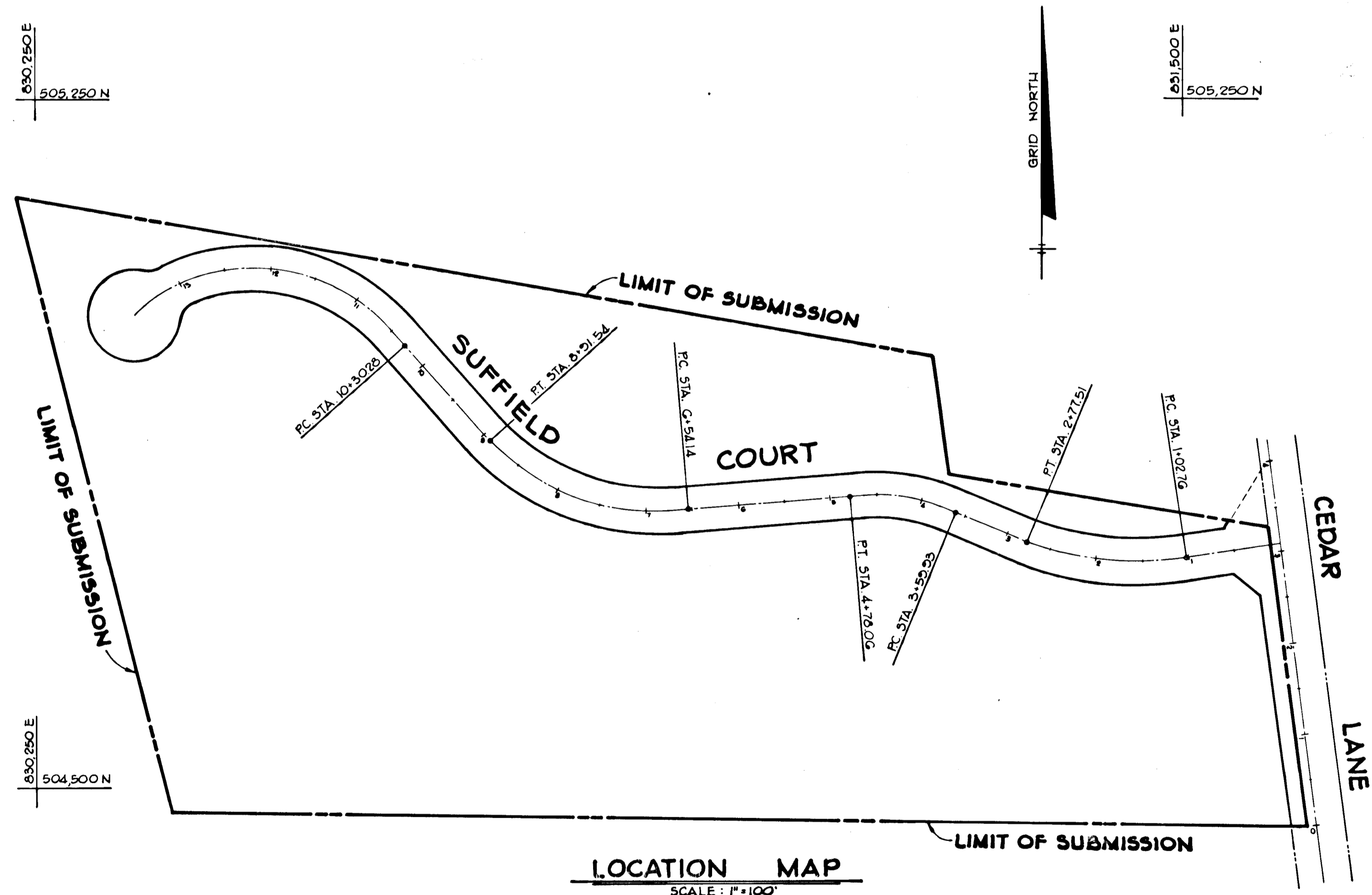


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	DRAINAGE AREA MAP & STORM WATER MANAGEMENT PLAN
3	PLAN AND PROFILE - SUFFIELD COURT
4	STORM DRAIN PROFILES
5	ROADWAY DETAILS
6	STORM DRAIN & STORM WATER MANAGEMENT DETAILS
7	GRADING AND SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL DETAILS
9	STORM WATER MANAGEMENT FACILITY SPECIFICATIONS

ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT SCARBOROUGH 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 2,000'



LOCATION MAP
SCALE: 1" = 100'

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393 3649
LONG DISTANCE CABLE DIVISION	393 3553 ... 3554
BALTO. GAS AND ELECTRIC COMPANY	539 8000 ... 691
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 3' 0" RADIUS UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 50' R.W.'S 25 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
12. ALL FILL AREAS TO BE COMPACTED TO A MINIMUM 95% COMPACTION.
13. SUBJECT PROPERTY ZONED R-SA PER 10-03-77 COMPREHENSIVE ZONING PLAN.

APPROVED:	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>William S. Tracy</i> CHIEF, BUREAU OF ENGINEERING	8-21-80 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.	
<i>William S. Tracy</i> CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
DATE	REVISION
OWNER: SCARBOROUGH JOINT VENTURE 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029	
DEVELOPER: JACYN DEVELOPMENT GROUP 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029	
PROJECT: SCARBOROUGH LOTS 1 THRU 25 AND C-1 THRU C-60	
AREA: ELECTION DISTRICT N° 5 HOWARD COUNTY, MARYLAND TAX MAP N° 29 PARCELS N° 71, 50 & 103	
TITLE: TITLE SHEET	
Riemer - Tracy & Associates, Inc. 8659 Baltimore National Pike Ellicott City, Maryland 21043 (301) 461-2690 Land Planning, Design & Civil Engineering	
12-29-79 DATE	DESIGNED BY: J.K.T.
	DRAWN BY: R.J.W.
	PROJECT NO: 0179
	DATE: 12-29-79
	SCALE: 1" = 100'
	DRAWING NO. 1 OF 2

- NOTE -
AS-BUILT SURVEY VERIFIED BY JAMES K. TRACY
MD. REG. PROFESSIONAL ENGINEER No. 9566 AS
OF 8/12/81

F-8c 91

MARYLAND BLUEPRINT CO. INC.

§ CURVE DATA
FROM STA 10+00.28 TO STA 12+42.25
Δ = 60°55'10"
R = 200.00'
L = 212.05'
T = 117.02'
Chd = N 71°32'25" W, 202.77'

§ CURVE DATA
FROM STA 6+54.14 TO STA 8+91.54
Δ = 54°24'55"
R = 250.00'
L = 237.40'
T = 126.51'
Chd = N 68°17'07" W, 226.55'

§ CURVE DATA
FROM STA 2+59.25 TO STA 4+78.06
Δ = 27°04'24"
R = 250.00'
L = 118.15'
T = 60.15'
Chd = N 81°57'15" W, 117.05'

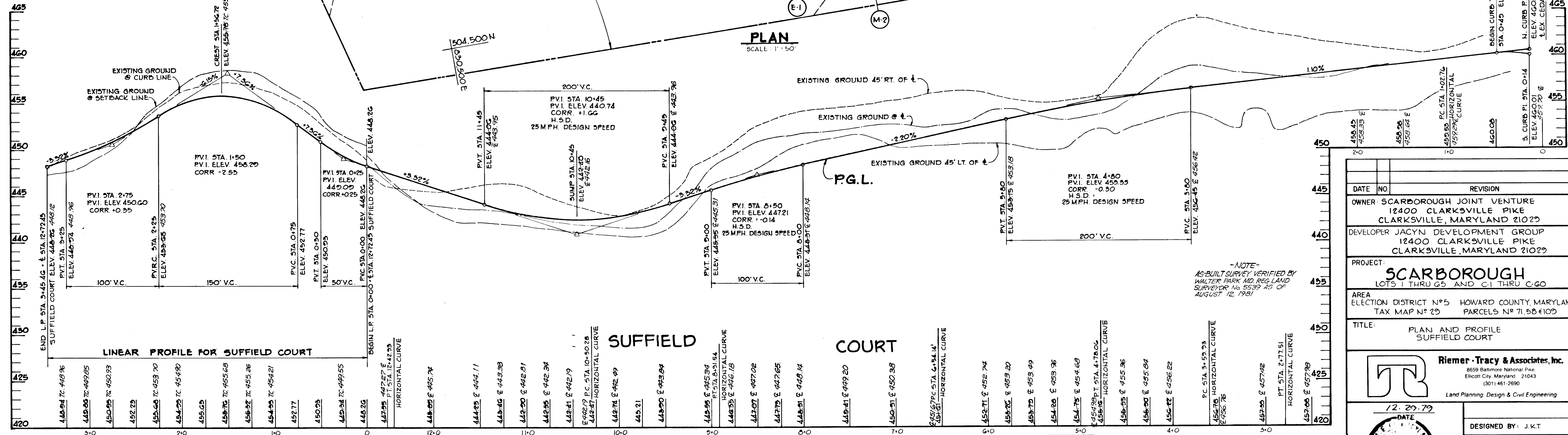
§ CURVE DATA
FROM STA 1+02.76 TO STA 2+77.51
Δ = 28°36'25"
R = 350.00'
L = 174.75'
T = 89.24'
Chd = N 62°45'14" W, 172.24'

SECTION A-A
NO SCALE

CONC. MONUMENT DETAIL
NO SCALE

STORM WATER MANAGEMENT FACILITY
(FOR PLAN AND DETAILS SEE DRAWING N° 2 OF 6)

PLAN
SCALE: 1" = 50'



PROFILE
HOR: 1" = 50'
VERT: 1" = 5'

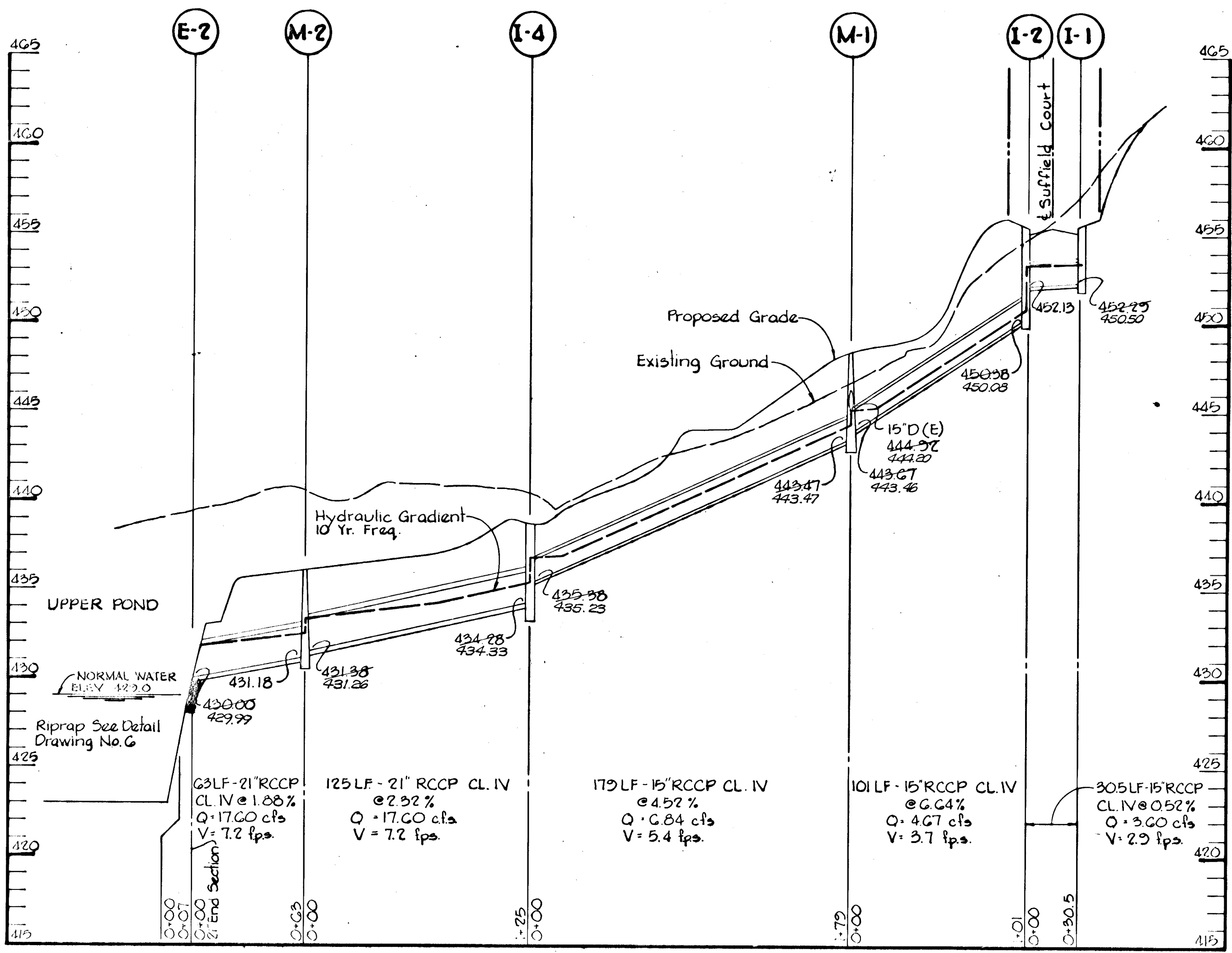
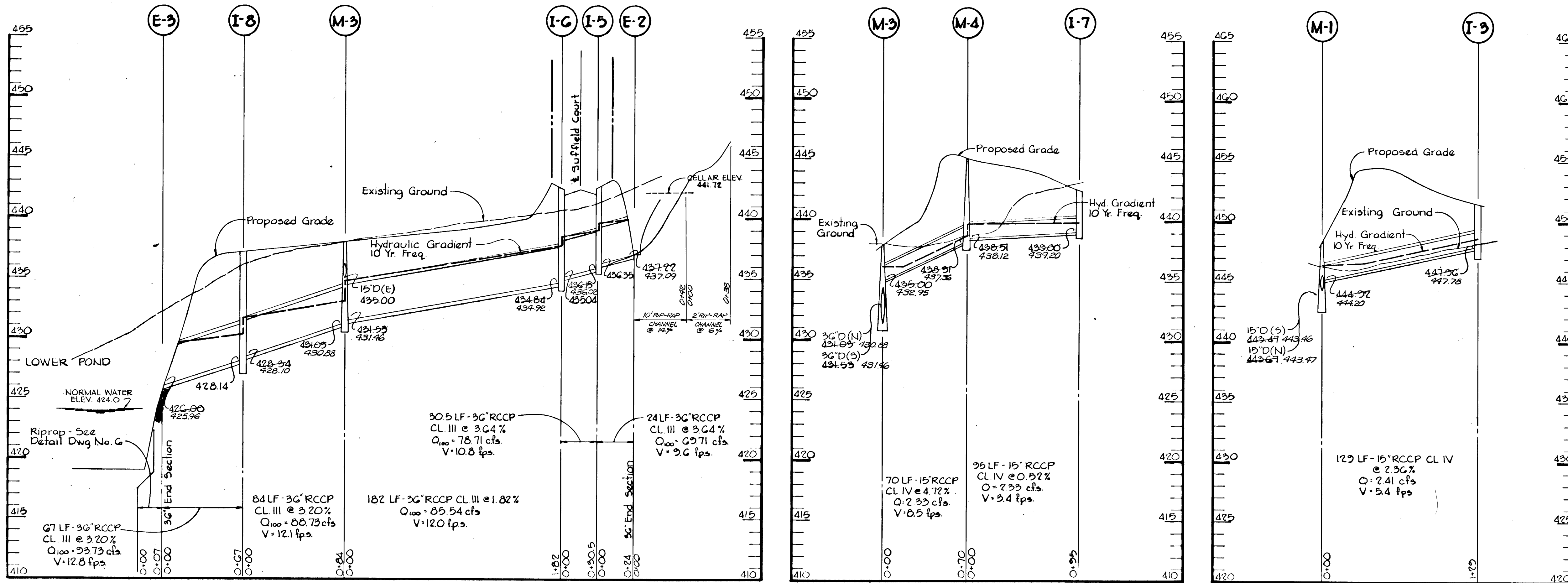
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 9-15-80

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, BUREAU OF ENGINEERING
DATE: 9-21-80

DATE	NO.	REVISION
OWNER: SCARBOROUGH JOINT VENTURE 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
DEVELOPER: JACYN DEVELOPMENT GROUP 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
PROJECT: SCARBOROUGH LOTS 1 THRU G5 AND C1 THRU C60		
AREA: ELECTION DISTRICT N°5 HOWARD COUNTY, MARYLAND TAX MAP N° 29 PARCELS N° 71.58 & 109		
TITLE: PLAN AND PROFILE SUFFIELD COURT		
Riemer - Tracy & Associates, Inc.		
8659 Baltimore National Pike Ellicott City, Maryland 21043 (301) 461-2690 Land Planning, Design & Civil Engineering		
DATE: 12-29-79		
DESIGNED BY: J.K.T.		
DRAWN BY: R.J.W.		
PROJECT NO: 0179		
DATE: 12-29-79		
SCALE: AS SHOWN		
DRAWING NO. 3 OF 3		

AS-BUILT SEPT. 1982

F-80-91
AUGUST 11, 1980



-NOTE-
AS-BUILT SURVEY VERIFIED BY WALTER PARK
AND REG. LAND SURVEYOR No. 5539 AS OF
AUGUST 12, 1981

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
E-1	A-5	Sta. 4+33 14' Rt.	-	452.29	455.79	H.C. STD 64-A
E-2	A-5	Sta. 4+33 14' Lt.	452.13	450.38	455.79	H.C. STD 64-A
E-3	A-9	See Plan	-	447.96	452.08	H.C. STD D-98
E-4	A-9	See Plan	435.38	434.28	438.98	H.C. STD 64-C
E-5	A-10	Sta. 10+45 14' Rt.	436.35	436.15	442.40	H.C. STD 64-A
E-6	A-5	Sta. 10+45 14' Rt.	435.04	434.84	442.40	H.C. STD 64-A
E-7	A-5	See Plan	-	439.00	442.50	H.C. STD D-98
E-8	A-5	See Plan	428.34	428.14	437.00	H.C. STD 64-C
M-1	Manhole	See Plan	443.67	441.47	448.30	H.C. STD D-103
M-2	Manhole	See Plan	431.38	431.18	436.10	H.C. STD D-103
M-3	Manhole	See Plan	431.53	431.03	438.00	H.C. STD D-103
M-4	Manhole	See Plan	438.51	438.31	445.00	H.C. STD D-103
E-1	21" End Sect.	See Plan	430.0	-	431.75	Flared End Sect. Outlet
E-2	36" End Sect.	See Plan	-	437.22	440.20	Flared End Sect. Inlet
E-3	36" End Sect.	See Plan	426.00	-	429.00	Flared End Sect. Outlet

APPROVED:

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William O. Ray 8-21-80
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Richard W. Ryan
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER SCARBOROUGH JOINT VENTURE
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

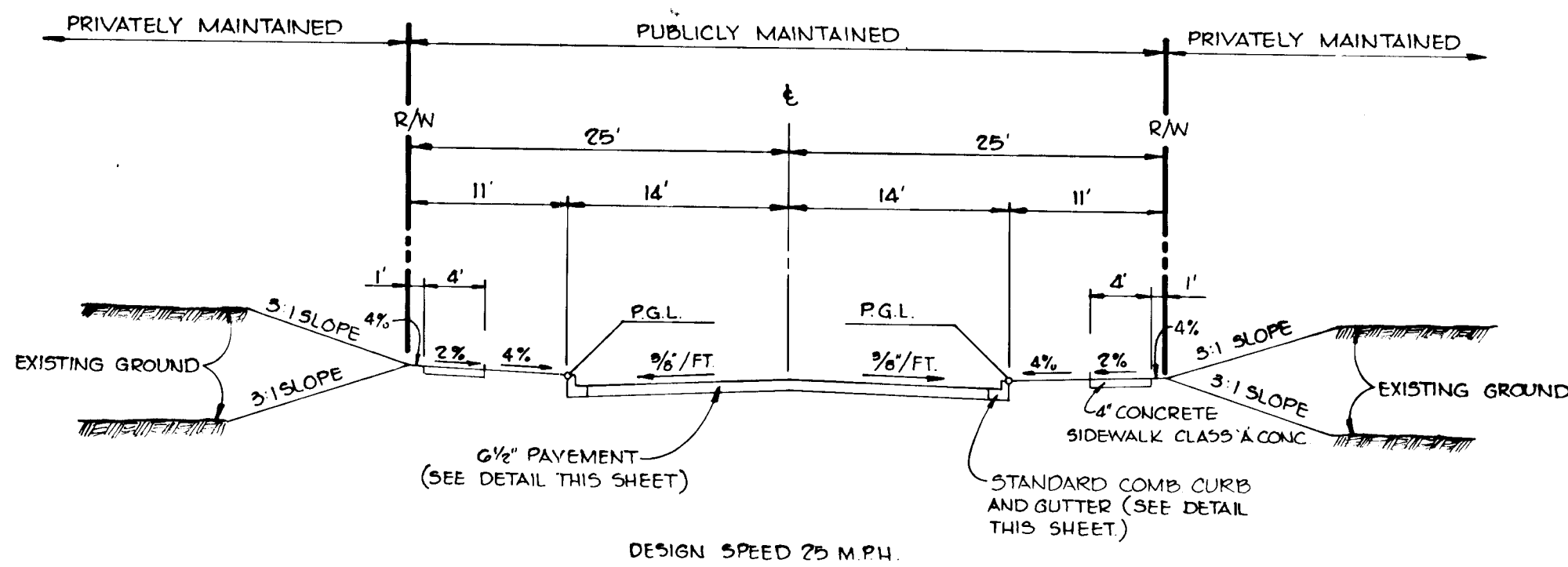
PROJECT: SCARBOROUGH
LOTS 1 THRU G5 AND G1 THRU C-60

AREA ELECTION DISTRICT N°5 HOWARD COUNTY, MARYLAND
TAX MAP N°29 PARCELS N° 71, 58 & 109

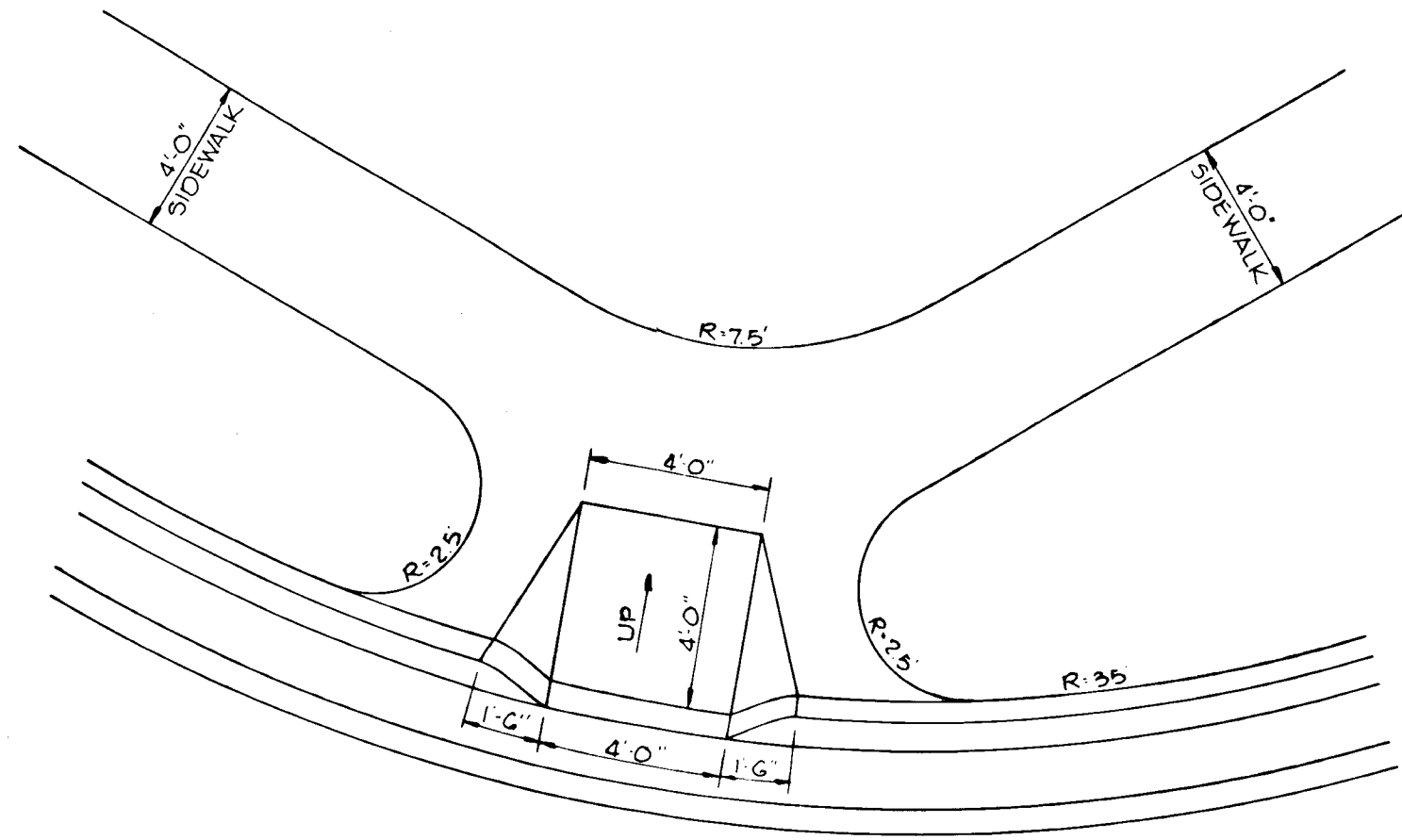
TITLE: STORM DRAIN PROFILES

Riawer - Tracy & Associates, Inc.
8655 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

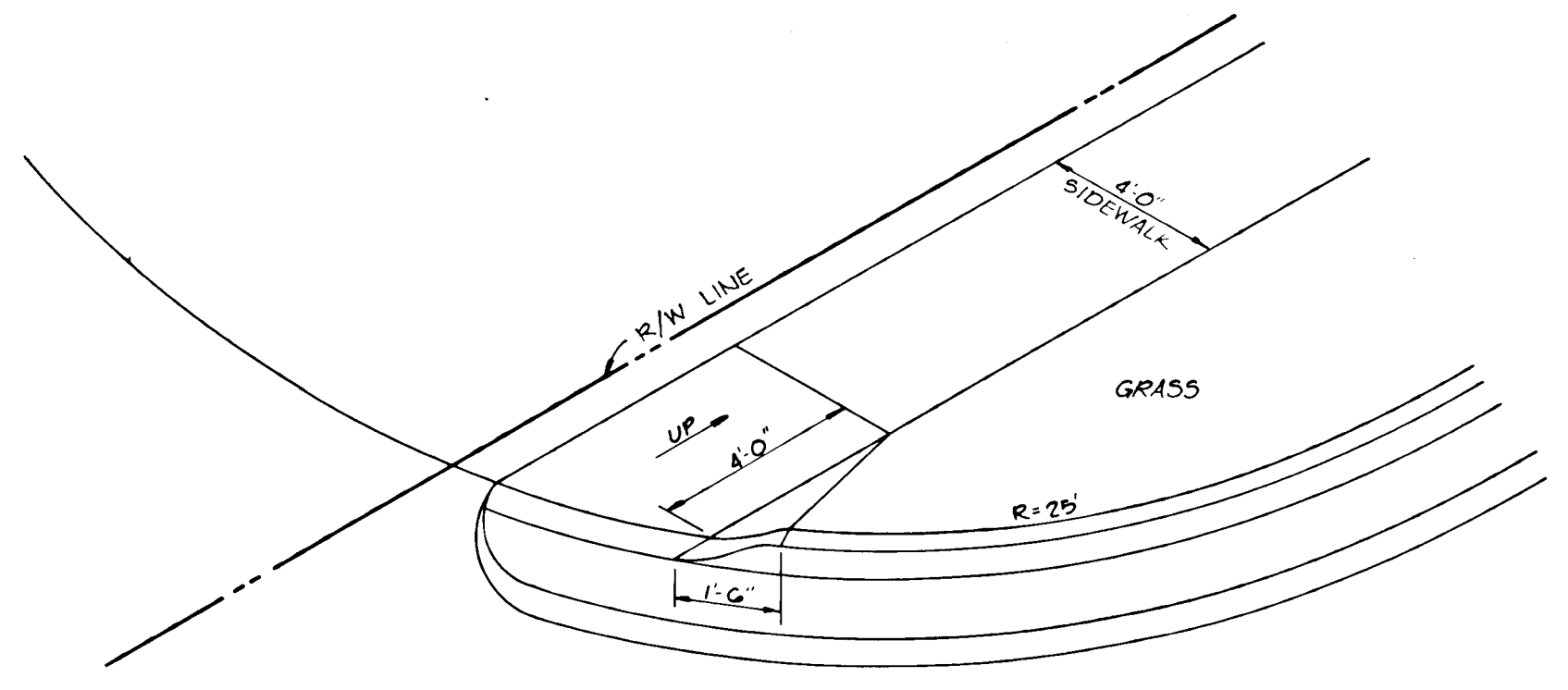
DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO: 0175
DATE: 12-29-79
SCALE: H-1"=50', V-1"=5'
DRAWING NO. 4 OF 9



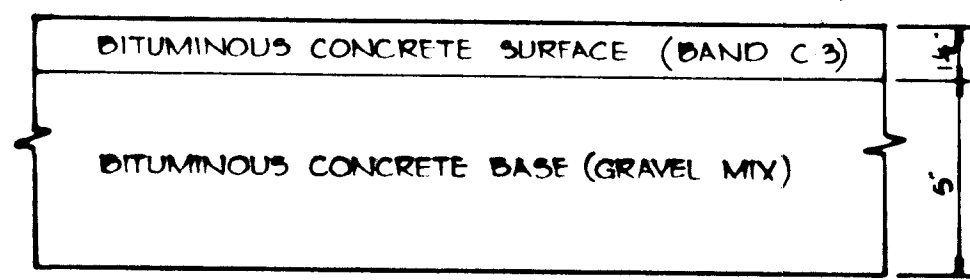
LIMITS OF SIDEWALK FROM STA. 0+25 TO STA. 9+10 NORTH SIDE
FROM STA. 0+25 TO STA. 12+50 SOUTH SIDE
TYPICAL SECTION (50' R/W)
Scale 1"=10'



INTERSECTION OF CEDAR LANE AND SUFFIELD COURT



INTERSECTION OF SUFFIELD COURT AND PRIVATE PARKING AREAS

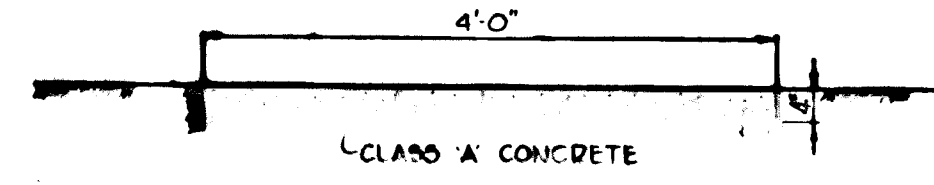


HOWARD COUNTY STANDARD (DRAWING D-5, PAGE 60)

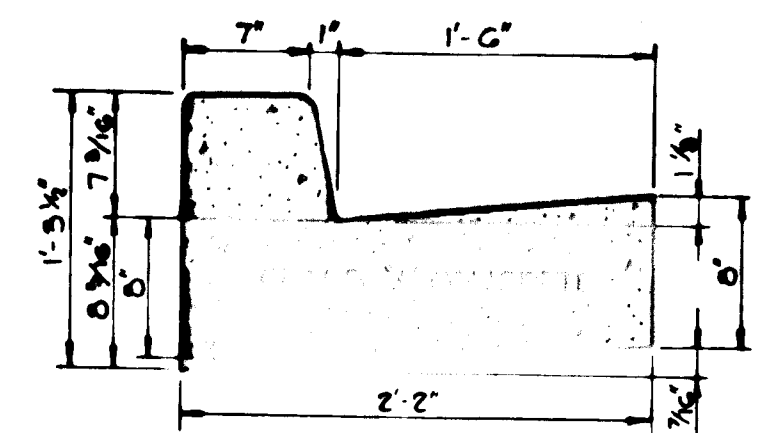
CLEARING AND GRADING ARTICLE C-1
SUBGRADE ARTICLE C-2
BASE COURSE ARTICLE C-25
SURFACE COURSE ARTICLE C-31

6 1/2" PAVING

- NOTES:
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31.4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
 2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30.3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
 3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.



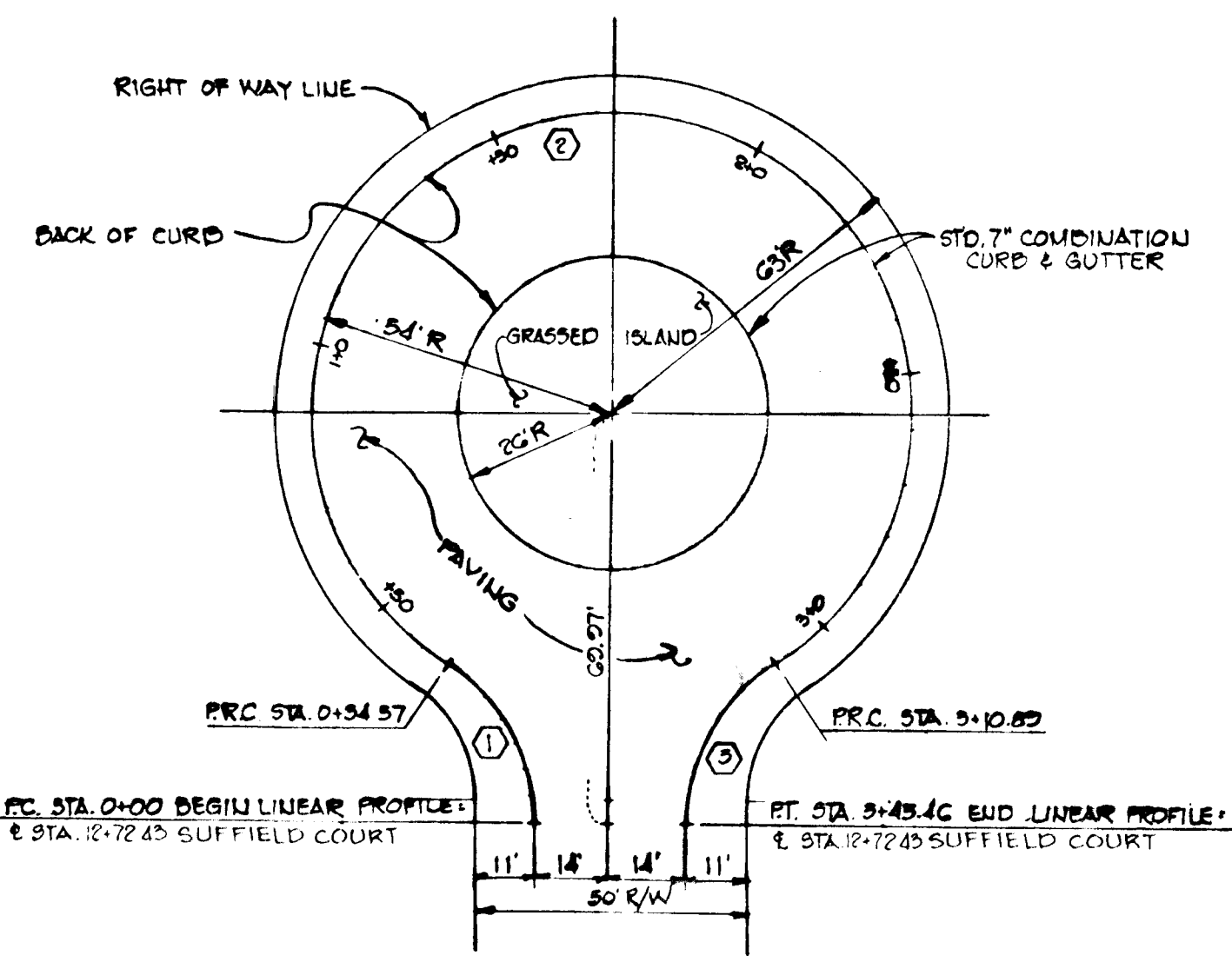
SIDEWALK DETAIL
No Scale



HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 55)

STANDARD 7" COMBINATION CURB AND GUTTER
No Scale

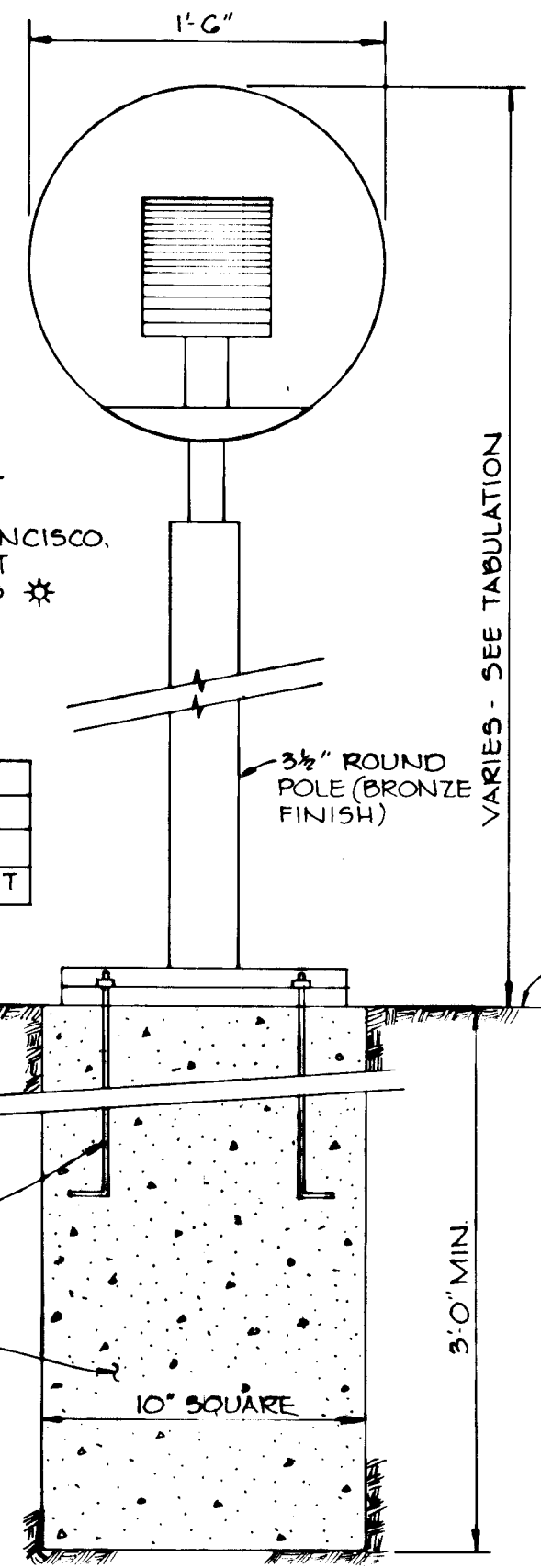
TYPICAL HANDICAPPED RAMPS
No Scale



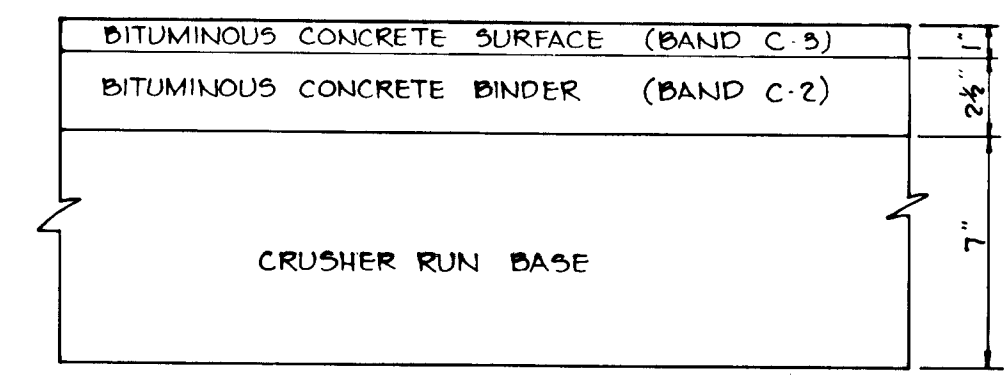
CURVE DATA						
NO.	RAD.	Δ	TAN	ARC.	CHD.	L.C.B.
①	35.00'	56°35'30"	0.64	34.57'	39.18'	S 45°42'00" W
②	54.00'	22°11'10"	-	270.92'	59.46'	N 12°00'00" W
③	35.00'	56°35'30"	0.64	34.57'	39.18'	S 75°42'00" E

CUL-DE-SAC DETAIL
No Scale

TYPICAL PAVING SECTION
No Scale



LIGHTING DETAIL
No Scale



HOWARD COUNTY STANDARD (DRAWING D-4, PAGE 55)

CLEARING AND GRADING ARTICLE C-1
SUBGRADE ARTICLE C-2
BASE COURSE ARTICLE C-25
BINDER COURSE ARTICLE C-31 OR C-33
SURFACE COURSE ARTICLE C-31

10 1/2" PAVING

- NOTES:
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31.4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
 2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30.3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
 3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

ALTERNATE PAVING SECTION
No Scale

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William D. Ray 8-21-80
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
John M. ... 8-15-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

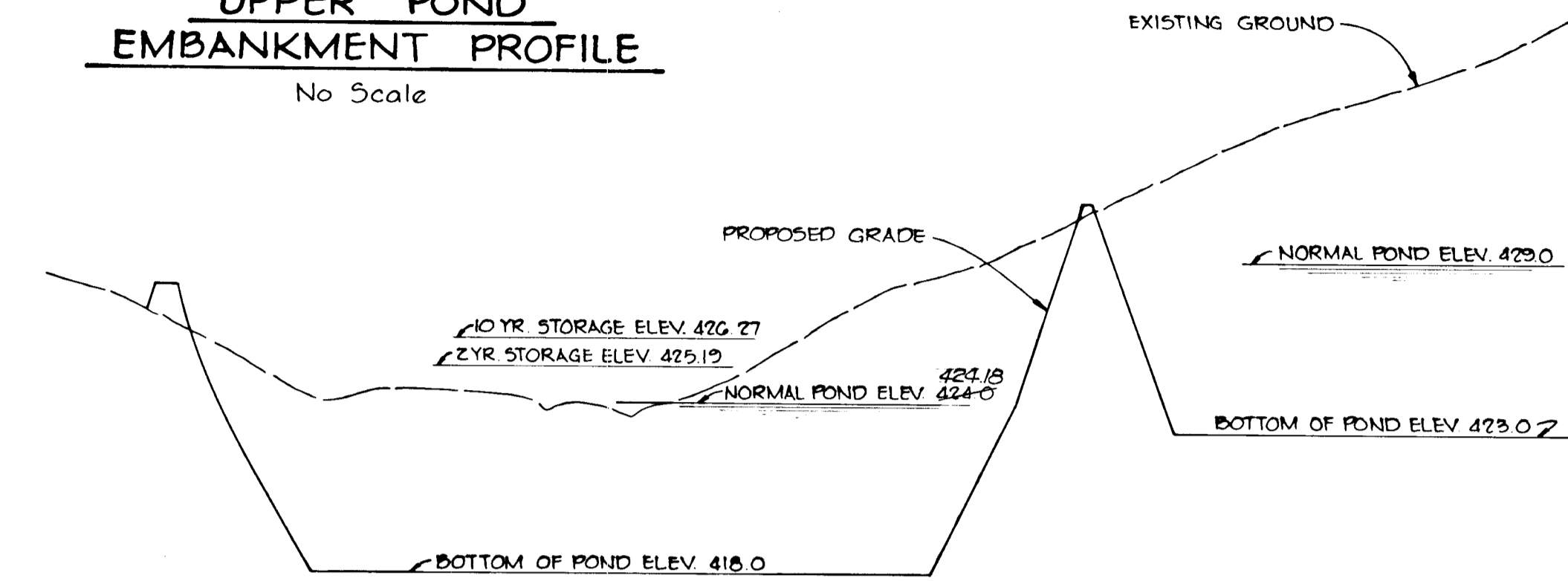
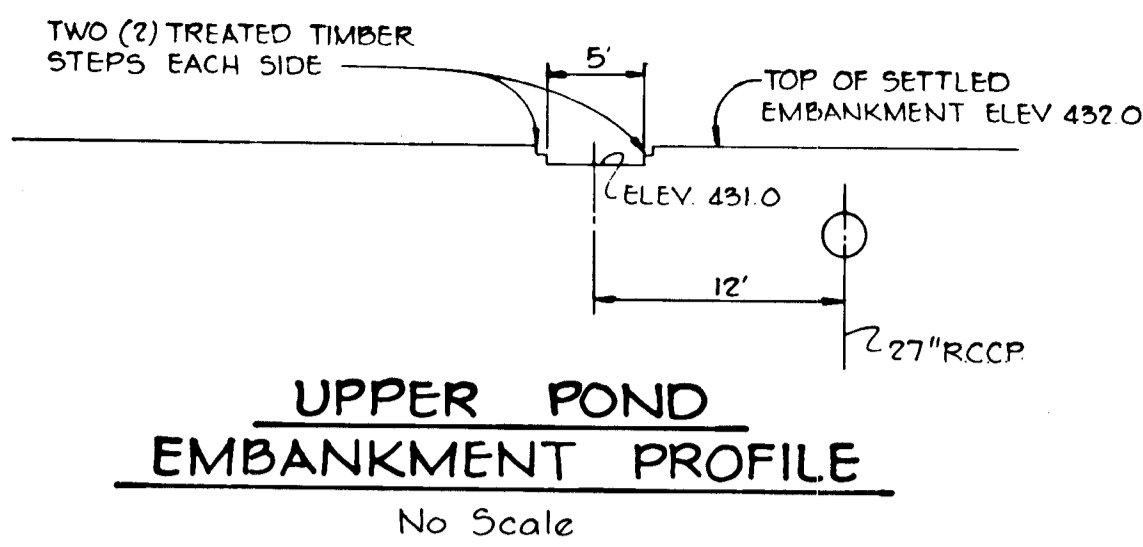
OWNER SCARBOROUGH JOINT VENTURE
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029
DEVELOPER JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: **SCARBOROUGH**
LOTS 1 THRU 25 AND C1 THRU C60
AREA ELECTION DISTRICT N° 5 HOWARD COUNTY, MARYLAND
TAX MAP N° 29 PARCELS N° 71, 58 & 109
TITLE: DETAILS

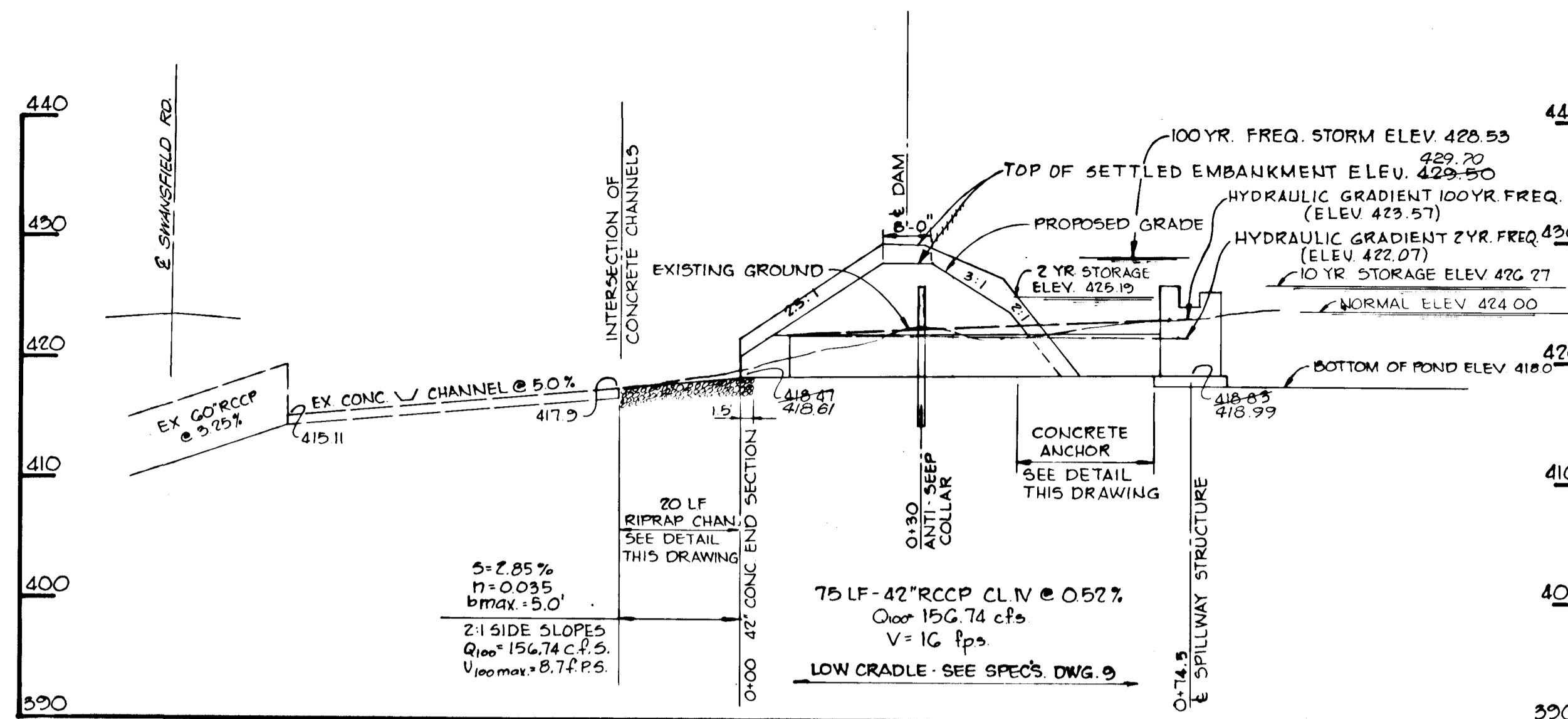
Riemer - Tracy & Associates, Inc.
8559 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

DATE: 12-29-79
DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO: 0179
DATE: 12-29-79
SCALE: AS SHOWN
DRAWING NO. 5 OF 9

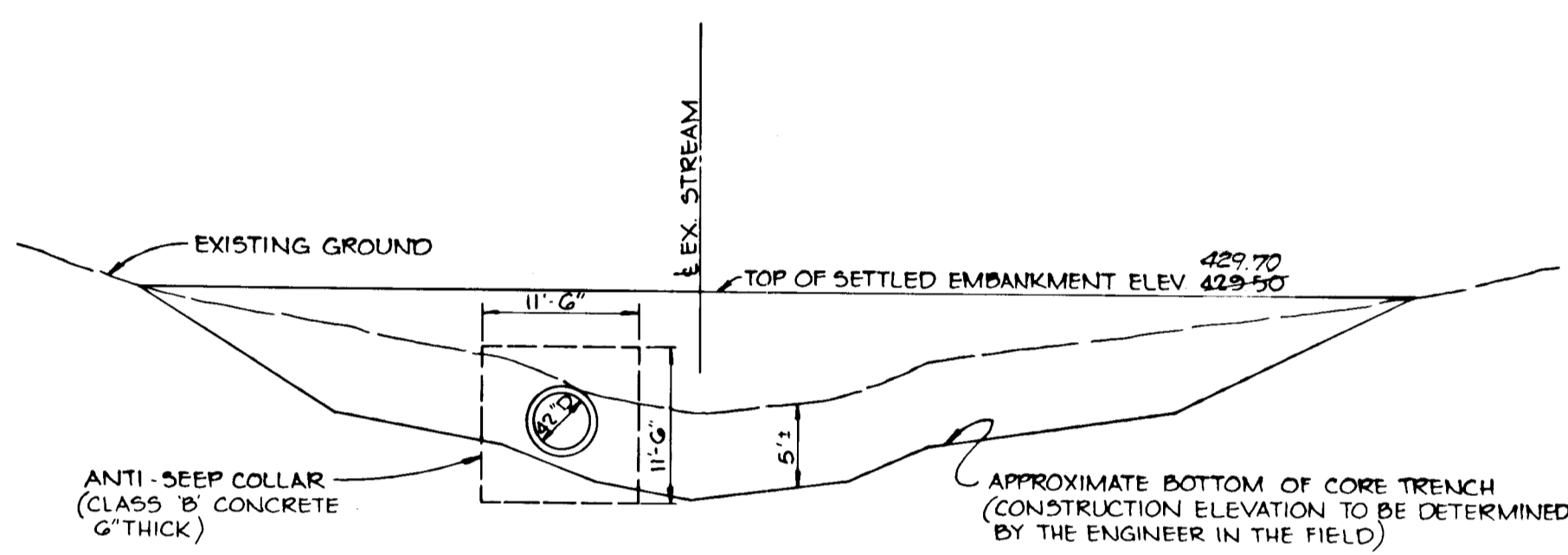
PROFESSIONAL ENGR. NO. 9556
F-80-94 AUGUST 11, 1980



SECTION 'A-A'
No Scale

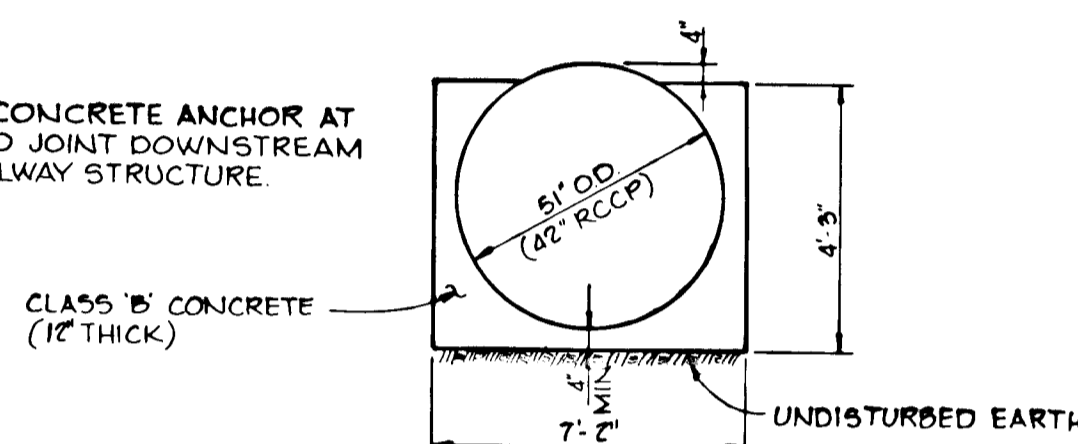


LOWER POND SPILLWAY
Scale: H: 1" = 20', V: 1" = 10'

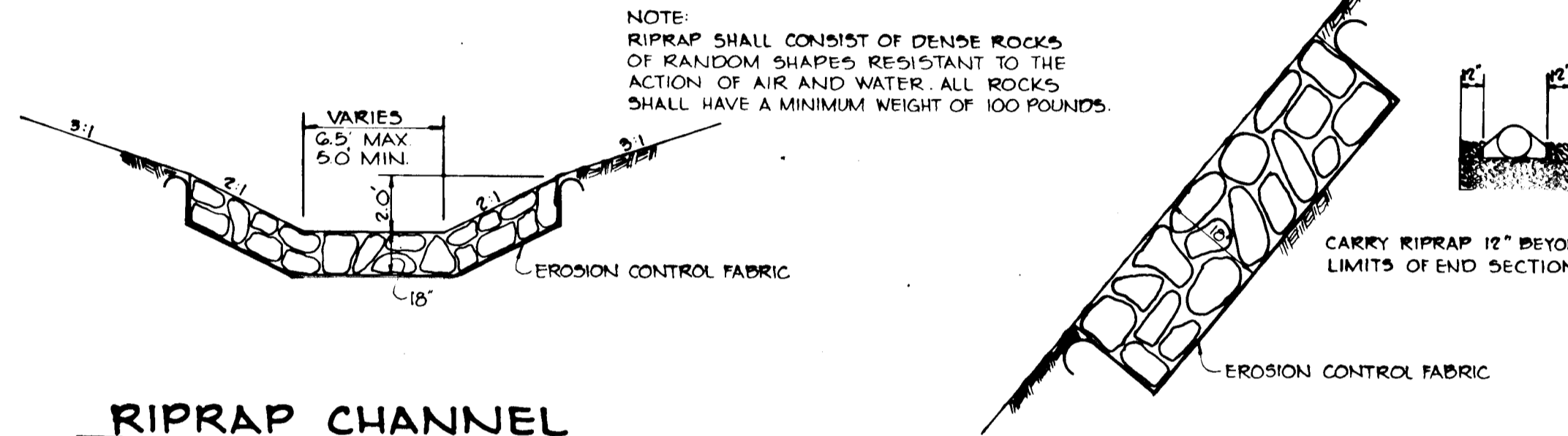


LOWER POND EMBANKMENT PROFILE
No Scale

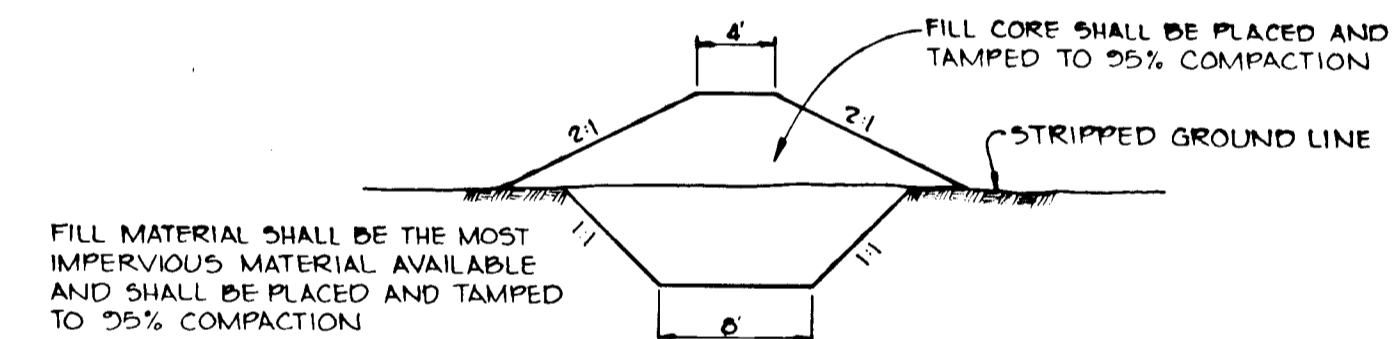
NOTE: PLACE CONCRETE ANCHOR AT SECOND JOINT DOWNSTREAM OF SPILLWAY STRUCTURE.



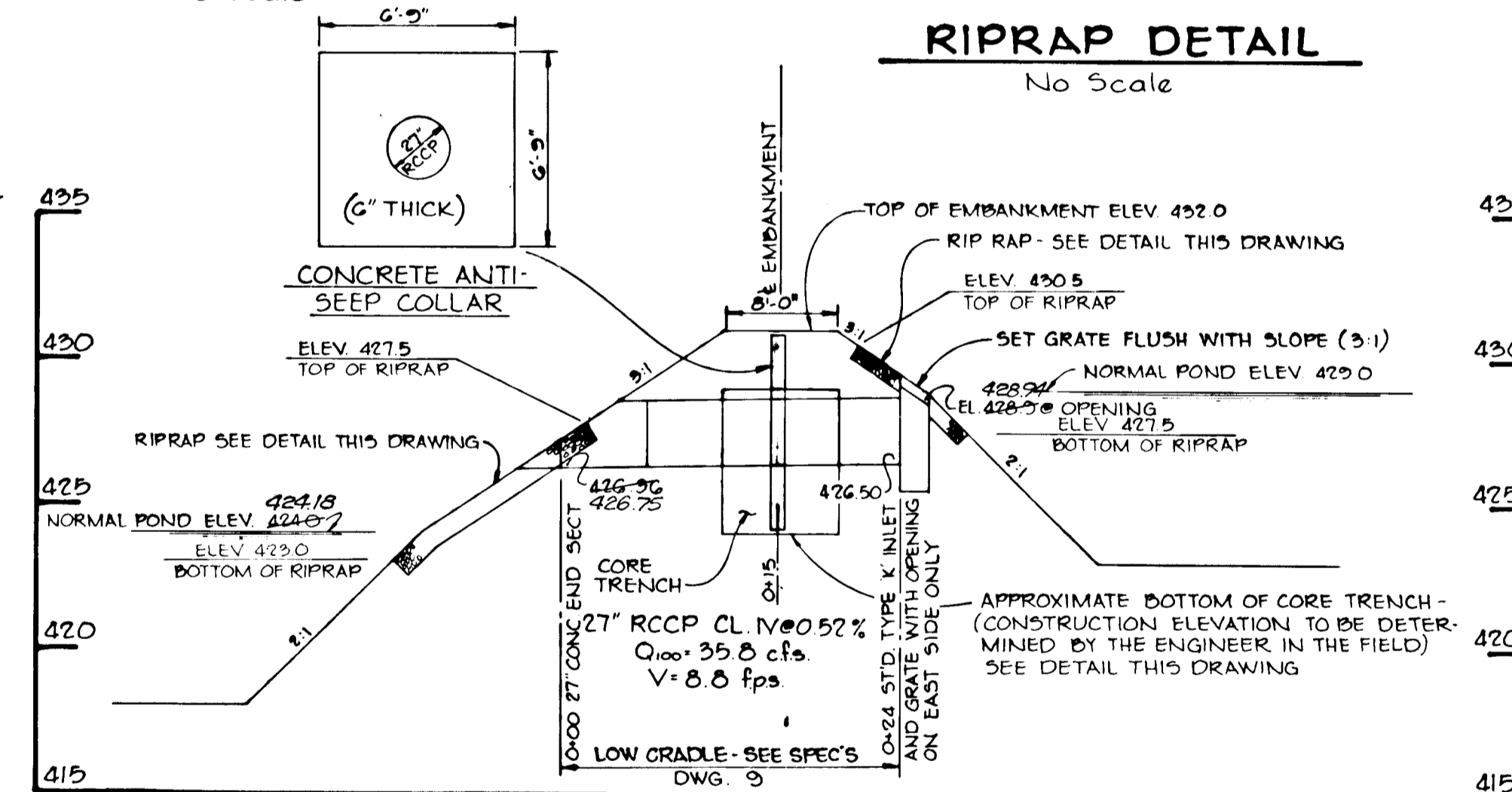
DETAIL CONCRETE ANCHOR
No Scale



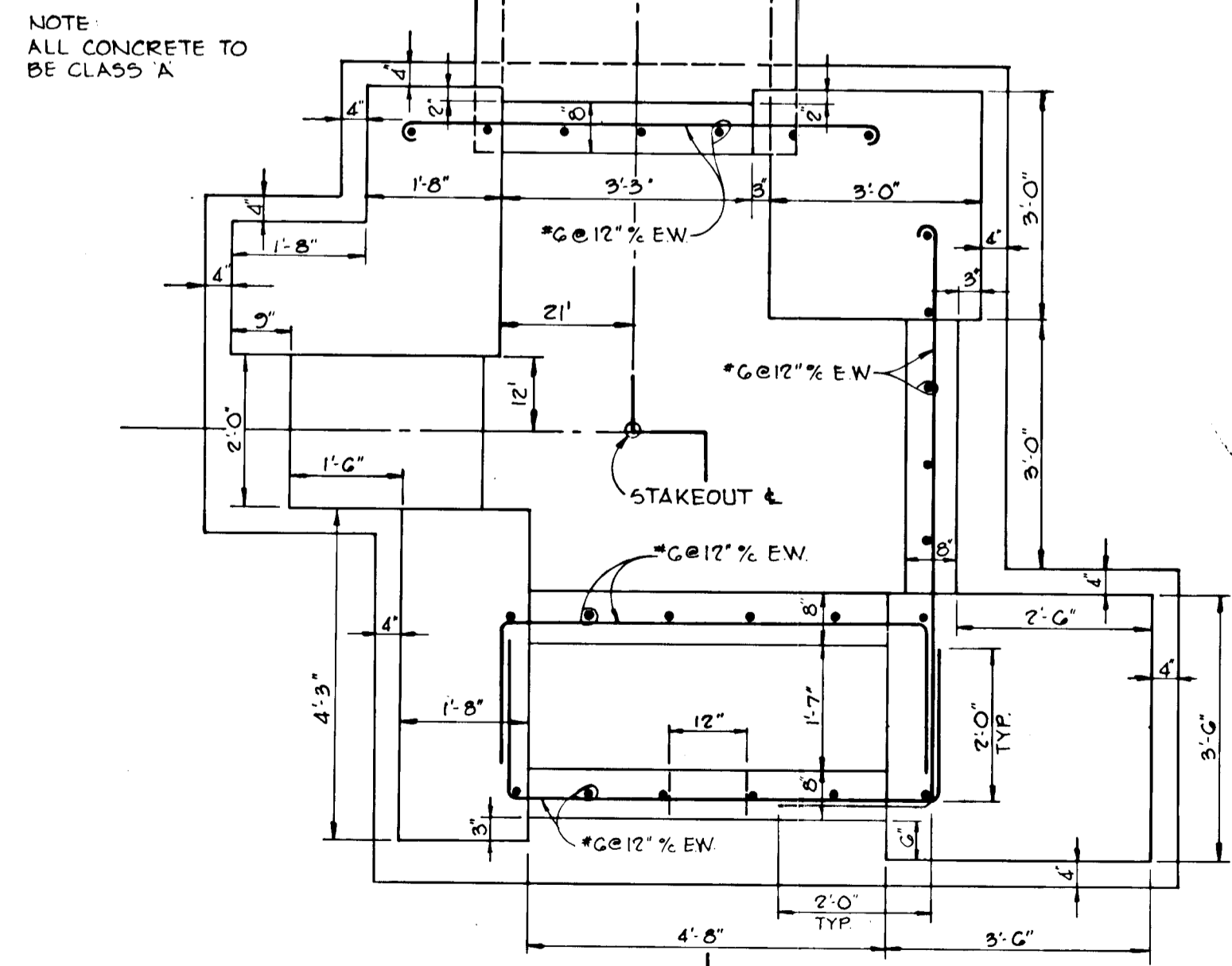
RIPRAP CHANNEL
No Scale



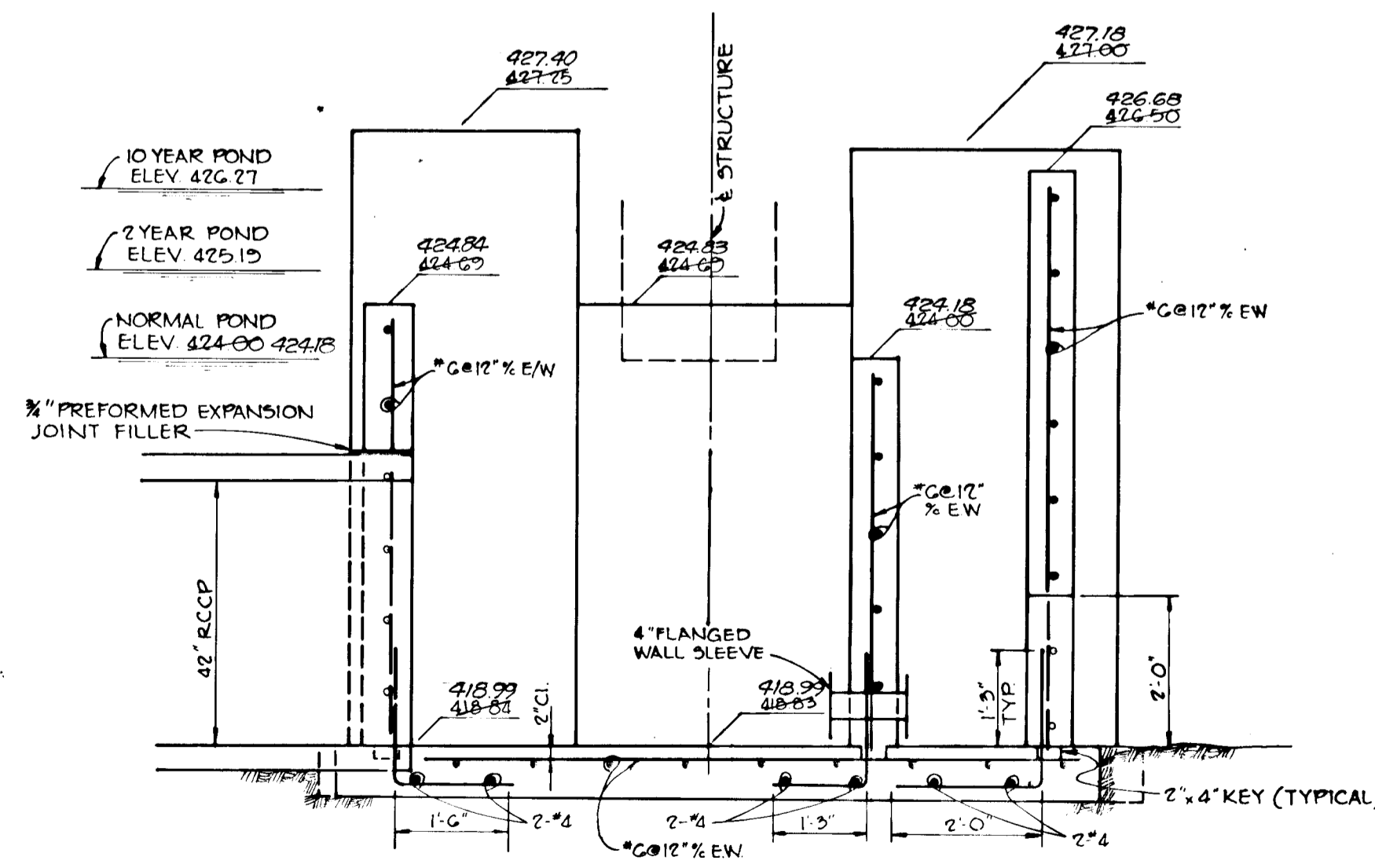
CORE TRENCH-TYPICAL SECTION
No Scale



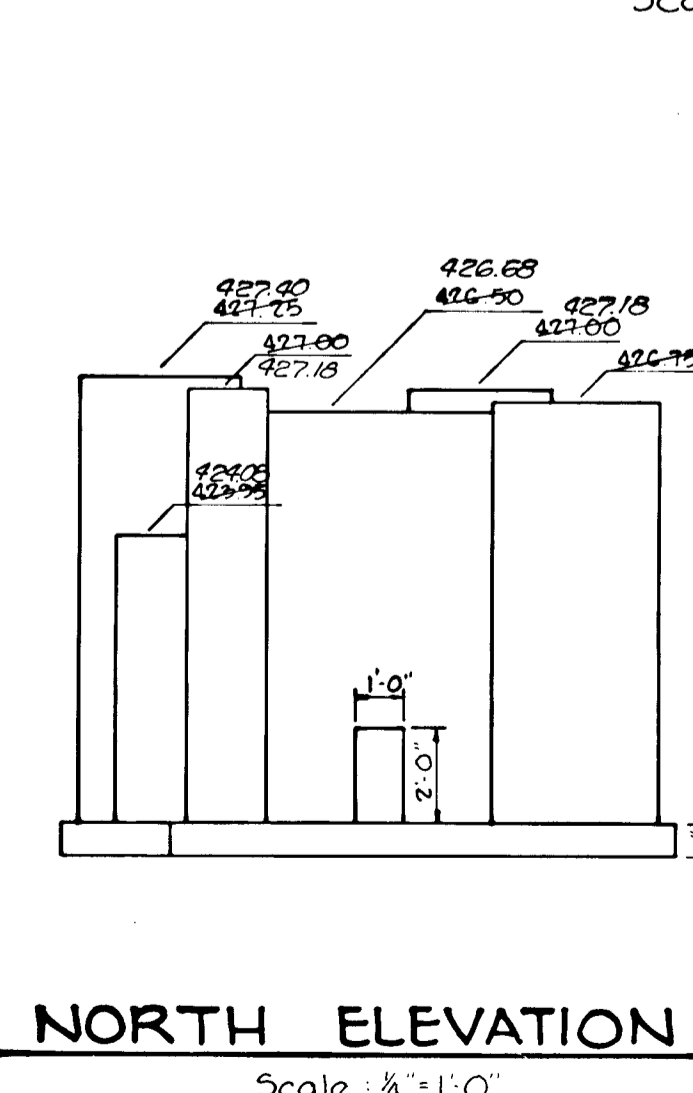
UPPER POND SPILLWAY
Scale: H: 1" = 10', V: 1" = 5'



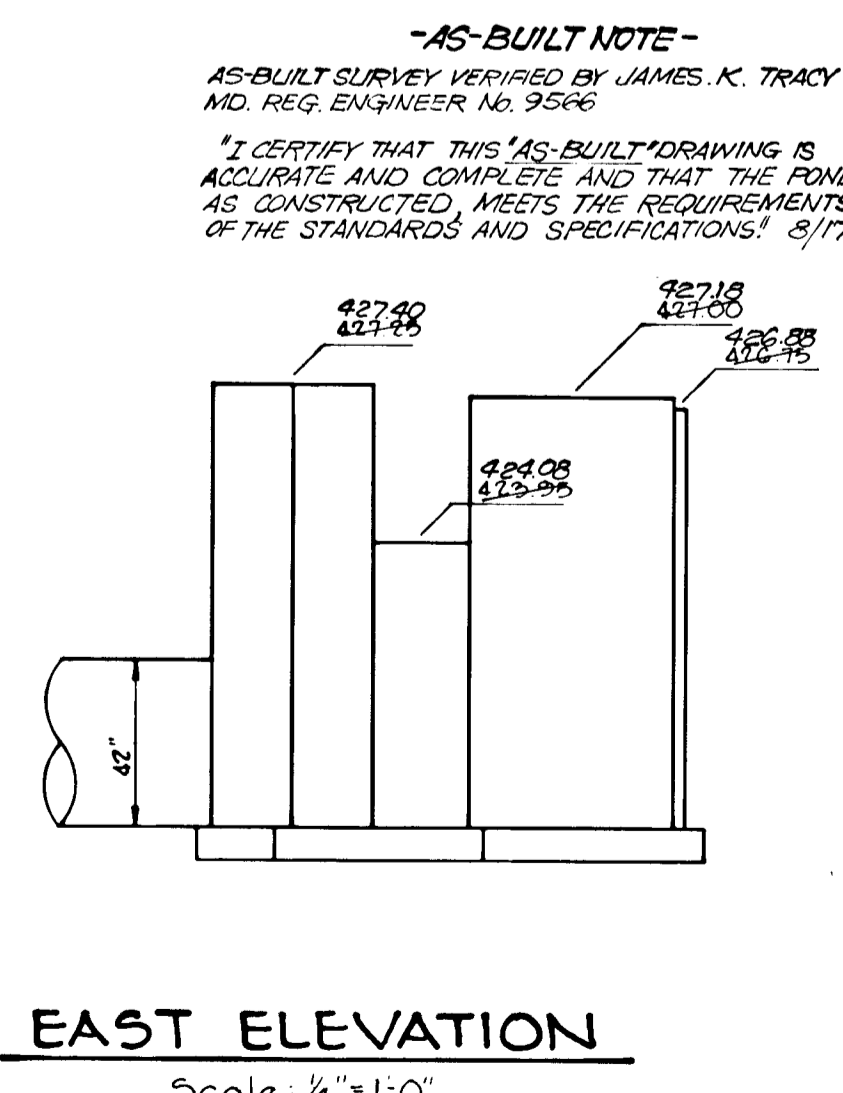
PLAN
Scale 1/2" = 1'-0"



SECTION 'B-B'
Scale 1/2" = 1'-0"



NORTH ELEVATION
Scale 1/4" = 1'-0"



EAST ELEVATION
Scale 1/4" = 1'-0"

SPILLWAY STRUCTURE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Howard K. Tracy 8-15-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Richard E. Pugh 8-21-80
CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. 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. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy 12-29-79
SIGNATURE OF DEVELOPER 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 A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy 12-29-79
SIGNATURE OF ENGINEER 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 K. Tracy 8-15-80
U.S. SOIL CONSERVATION SERVICE DATE

4-8-80 REVISION ANCHOR DETAIL
DATE NO. REVISION

OWNER SCARBOROUGH JOINT VENTURE
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: SCARBOROUGH
LOTS 1 THRU G5 AND C1 THRU C-60

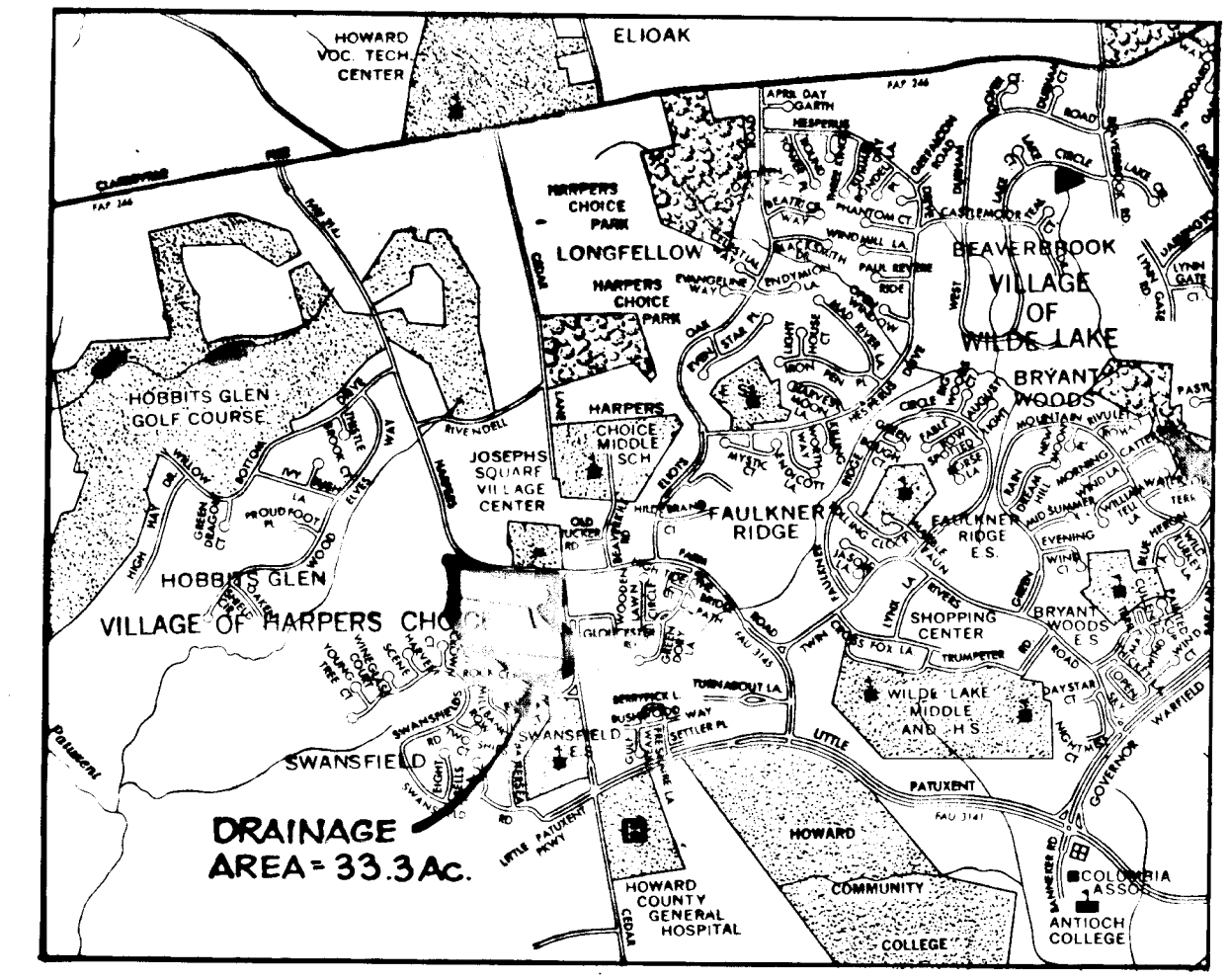
AREA ELECTION DISTRICT N°5 HOWARD COUNTY, MARYLAND
TAX MAP N°29 PARCELS N° 71, 58 & 10D

TITLE: S.W.M. DETAILS

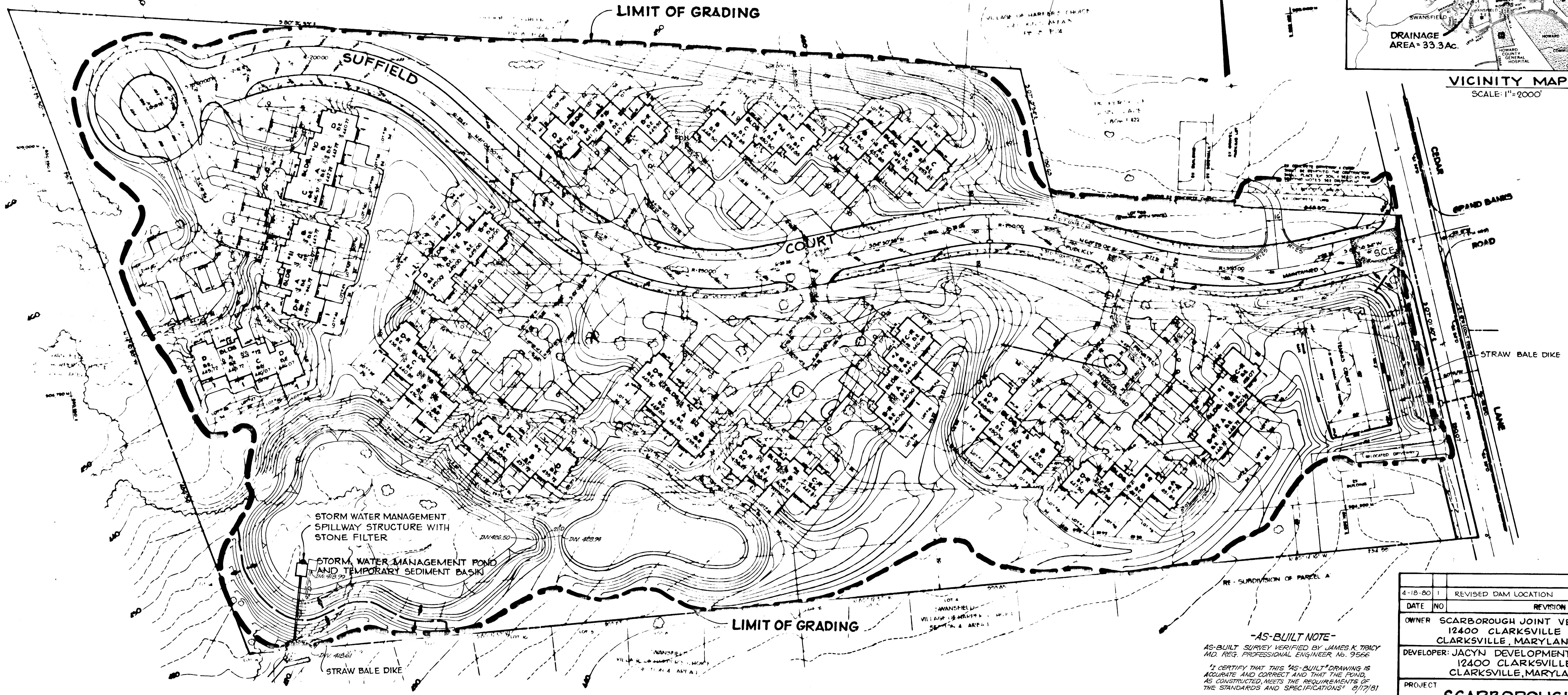
Riemer - Tracy & Associates, Inc.
8659 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

12-29-79 DATE
James K. Tracy
PROFESSIONAL ENGR NO 9566

DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO: 0179
DATE: 12-29-79
SCALE: AS SHOWN
DRAWING NO. 6 OF 9



VICINITY MAP
SCALE: 1"=200'



-AS-BUILT NOTE-
AS-BUILT SURVEY VERIFIED BY JAMES K. TRACY
MD. REG. PROFESSIONAL ENGINEER No. 9566
"I CERTIFY THAT THIS "AS-BUILT" DRAWING IS
ACCURATE AND CORRECT AND THAT THE POND,
AS CONSTRUCTED, MEETS THE REQUIREMENTS OF
THE STANDARDS AND SPECIFICATIONS" 8/17/81

SEDIMENT POND DATA

Drainage Area - 33.3 Acres
Disturbed Area - 15.0
Volume: Available - 4000 C.Y. - Required - 2220 C.Y.
Cleanout Elevation - 419.0
Spillway Elevation - 423.95
Bottom Elevation - 418.0
Height - 6'
Bottom Dimensions: Approximate Triangular Shape - 150' x 200'

NOTE:
ALL SWALES THAT DISCHARGE DIRECTLY INTO THE
PONDS SHALL BE PERMANENTLY STABILIZED WITH A HIGH
RATE SEEDING MIXTURE (720-260 %/Ac. IN ACCORDANCE
WITH THE SOIL CONSERVATION SERVICE STANDARDS AND SPEC-
IFICATIONS. ANY EROSION THAT MAY OCCUR IN THESE SWALES
SUBSEQUENT TO FINAL STABILIZATION, AND ACCEPTANCE
SHALL BE REPAIRED BY THE DEVELOPER USING METHODS
APPROVED BY THE SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL
EROSION AND SEDIMENT CONTROL MEET THE REQUIRE-
MENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Robert W. Zisch* 8-15-80
HOWARD S.C.D. DATE
F-80-91
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: *James M. Nelson* 8-15-80
U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF
PUBLIC WORKS
Richard S. Rain 8-21-80
CHIEF, BUREAU OF ENGINEERS 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 A RED-
LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF
COMPLETION."

APPROVED: *James K. Tracy* 12-23-79
SIGNATURE OF ENGINEER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING
CHIEF, DIVISION OF LAND
DEVELOPMENT DATE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION
WILL BE DONE ACCORDING TO THESE PLANS OF
DEVELOPMENT, POND CONSTRUCTION AND EROSION AND
SEDIMENT CONTROL. 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. I WILL PROVIDE THE
HOWARD SOIL CONSERVATION DISTRICT WITH A RED-
LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF
COMPLETION."

APPROVED: *Richard S. Rain* 12-23-79
SIGNATURE OF DEVELOPER DATE

4-18-80	1	REVISED DAM LOCATION
DATE	NO	REVISION
OWNER: SCARBOROUGH JOINT VENTURE 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
DEVELOPER: JACYN DEVELOPMENT GROUP 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
PROJECT: SCARBOROUGH LOTS 1 THRU 65 AND C1 THRU C-60		
AREA: ELECTION DISTRICT N° 5 HOWARD COUNTY, MARYLAND TAX MAP N° 29 PARCELS N° 71,58 & 109		
TITLE: GRADING AND SEDIMENT CONTROL PLAN		

Trimmer-Tracy & Associates, Inc.
4855 Baltimore National Pike
Ellicott City, Maryland 21044
(301) 481-2800
Land Planning, Design & Civil Engineering

DESIGNED BY J.K.T.
DRAWN BY L.J.D.
PROJECT NO. 0179
DATE 12-23-79
SCALE 1"=50'
DRAWING NO. 7 OF 9

James K. Tracy
PROFESSIONAL ENGINEER

SEDIMENT CONTROL CONSTRUCTION NOTES
GENERAL NOTES

1. A MINIMUM OF 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 GRADING 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 TRAPS 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 COUNTY DEPARTMENT OF PUBLIC WORKS 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.

TEMPORARY SEEDING

AREA TO BE SEEDED 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.

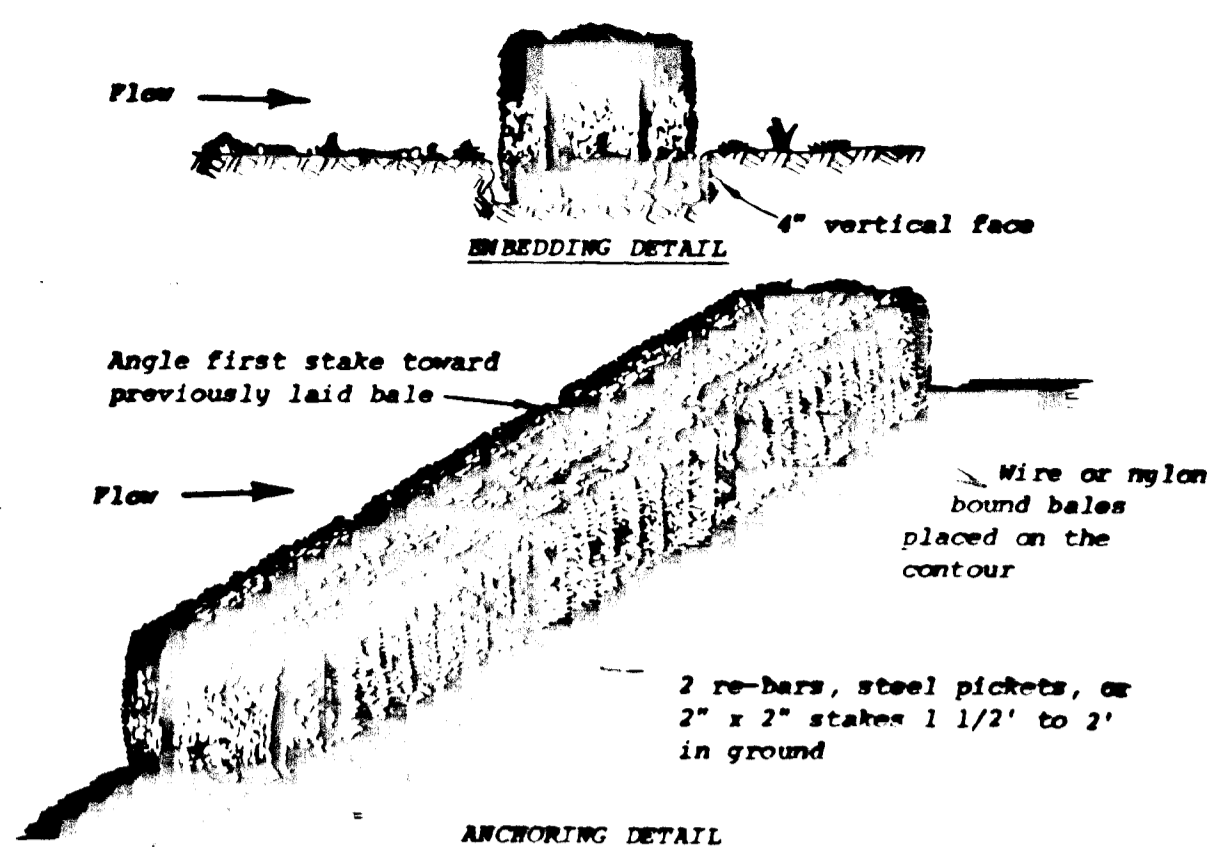
PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

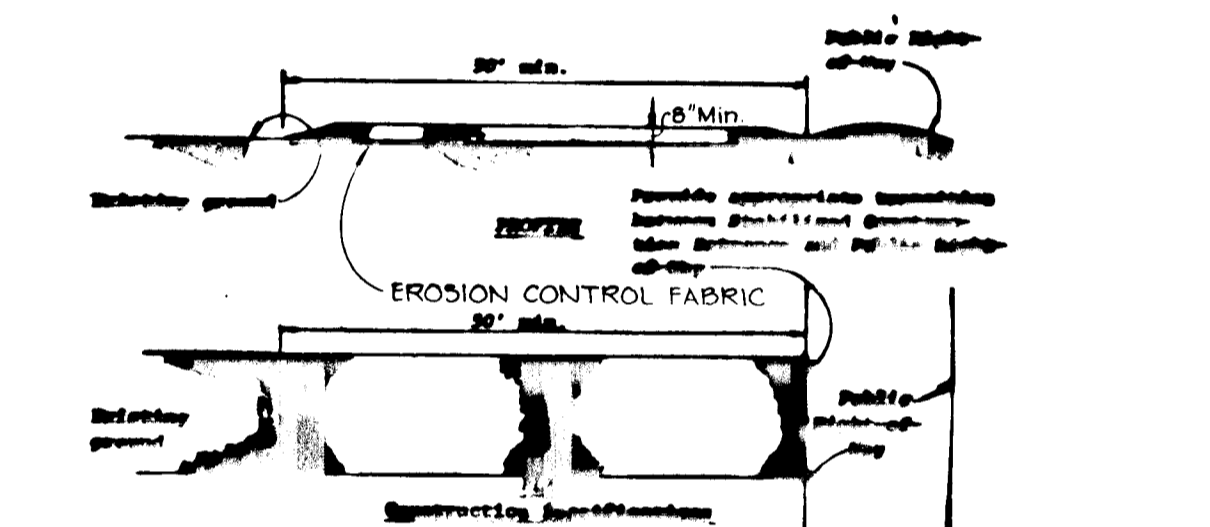
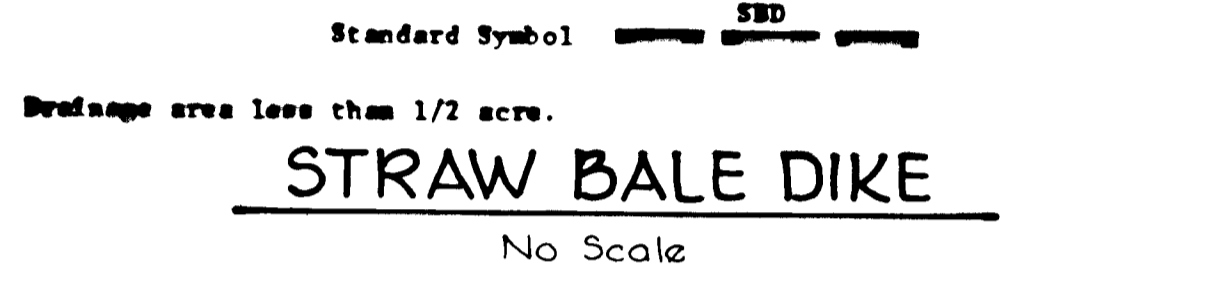
1. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
2. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR HIGH MAINTENANCE 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 @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.

SEQUENCE OF CONSTRUCTION

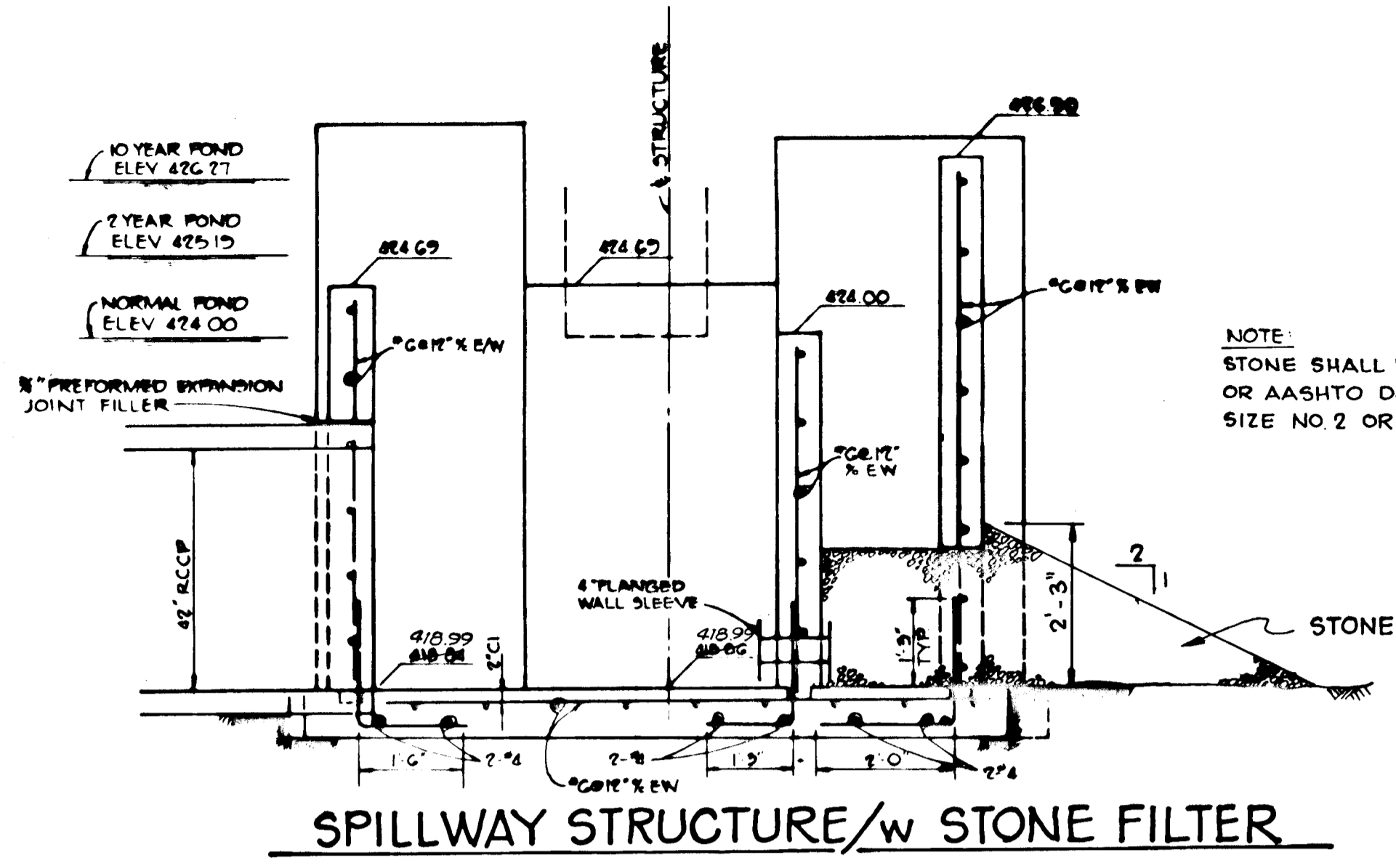
1. Obtain Grading Permit
2. Install Stabilized Construction Entrance
3. Install Straw Bale Dikes
4. Install Stormwater Management Pipe Spillway and Spillway Structure with Stone Filter
5. Construct Stormwater Management Embankment and Ponds and Seed Per Temporary Seeding Notes.
6. Remove Three (3) Existing Sediment Traps With Stone Outlet Structures.
7. Complete all site work and stabilize all disturbed Areas in Accordance with Permanent Seeding Notes.
8. Upon approval of the Soil Conservation District, remove all straw bales and convert sediment basin into stormwater management pond as follows:
 - a. Upper Pond: Impounded water shall be pumped through the 27" spillway pipe. Lower Pond: Impounded water shall be pumped into concrete spillway structure and discharged through 42-inch spillway pipe.
 - b. Sediment shall be removed and the pond areas restored to their original dimensions as shown on Drawing No. 2 of 8.
 - c. Removed sediment shall be deposited in the northwesterly most corner of the site and shall be spread and stabilized in accordance with the permanent seeding notes.



- Construction Specifications**
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be embedded in the soil a minimum of 4".
 3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
 5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.



1. Stone size - Use ASTM spec No. 2 (3-1/2" to 1") or ASTM spec No. 1 (1-1/2" to 3/4"). Use washed stone.
2. Length - An effective, but not less than 30 feet.
3. Thickness - Not less than eight (8) inches.
4. Spacing - Not less than full width of all points of ingress or egress.
5. Working - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When working is completed, it shall be done on an area stabilized with approved cover which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drains, ditches, or waterways through use of sand bags, gravel, burlap or other approved methods.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flaring of sediment onto public right-of-way. This may require periodic top dressing with additional stone or sediment removal and repair and/or placement of any sediment used on right-of-way must be removed immediately.



NOTE:
STONE SHALL MEET MSHA SIZE NO. 2 OR AASHTO DESIGNATION M43 SIZE NO. 2 OR 24.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
John Musselman 8/15/80
CHIEF, DIVISION OF LAND DEVELOPMENT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *Robert W. Zelman* 8-15-80
HOWARD S.C.D. DATE
F-80-91
PLAN NUMBER

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert W. Zelman 8-21-80
CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. 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. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy 12-29-79
SIGNATURE OF DEVELOPER 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 A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy 12-29-79
SIGNATURE OF ENGINEER DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: *Robert W. Zelman* 8-15-80
HOWARD S.C.D. DATE

DATE	NO.	REVISION
OWNER: SCARBOROUGH JOINT VENTURE 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
DEVELOPER: JACYN DEVELOPMENT GROUP 12400 CLARKSVILLE PIKE CLARKSVILLE, MARYLAND 21029		
PROJECT: SCARBOROUGH LOTS 1 THRU G5 AND C1 THRU C60		
AREA ELECTION DISTRICT N#5 HOWARD COUNTY, MARYLAND TAX MAP N# 29 PARCELS N# 71, 58 & 109		
TITLE: SEDIMENT CONTROL DETAILS		

Riemer - Tracy & Associates, Inc.
8559 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

12-29-79
DATE
DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO: 0179
DATE: 12-29-79
SCALE: AS SHOWN
DRAWING NO. 8 OF 9

AS-BUILT SURVEY VERIFIED BY JAMES K. TRACY
MD REG. PROFESSIONAL ENGINEER NO. 9566 AS
OF AUGUST 12, 1981

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

1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are AWMA Specification C-300, 301, and 302.

2. 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.

3. 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.

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

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

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

V. CONCRETE

1. Materials

a. Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.

b. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

c. 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.

d. 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.

e. 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.

VI. 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.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John Mussalman 8/15/80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

APPROVED: Robert W. Ziehm 8-15-80
HOWARD S.C.D. DATE

F-80-91
PLAN NUMBER

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William E. Roy 8-21-80
CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. 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. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.

Signature of Developer 2-22-80
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 A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.

Signature of Engineer 2-22-80
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.

Signature of U.S. Soil Conservation Service 8-15-80
U.S. SOIL CONSERVATION SERVICE DATE

Table with 2 columns: DATE NO, REVISION

OWNER SCARBOROUGH JOINT VENTURE
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: SCARBOROUGH
LOTS 1 THRU G5 AND C-1 THRU C-60

AREA ELECTION DISTRICT N# 5 HOWARD COUNTY, MARYLAND
TAX MAP N# 29 PARCELS N# 71, 58 & 109

TITLE: STORM WATER MANAGEMENT FACILITY SPECIFICATIONS

Riemer-Tracy & Associates, Inc.
8659 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

DESIGNED BY: J.K.T.
DRAWN BY: J.K.T.
PROJECT NO: 0179
DATE: 2-22-80
SCALE: NONE
DRAWING NO. 2 OF 3

PROFESSIONAL ENGR NO 9566
AUGUST 11, 1980

F-80-91