

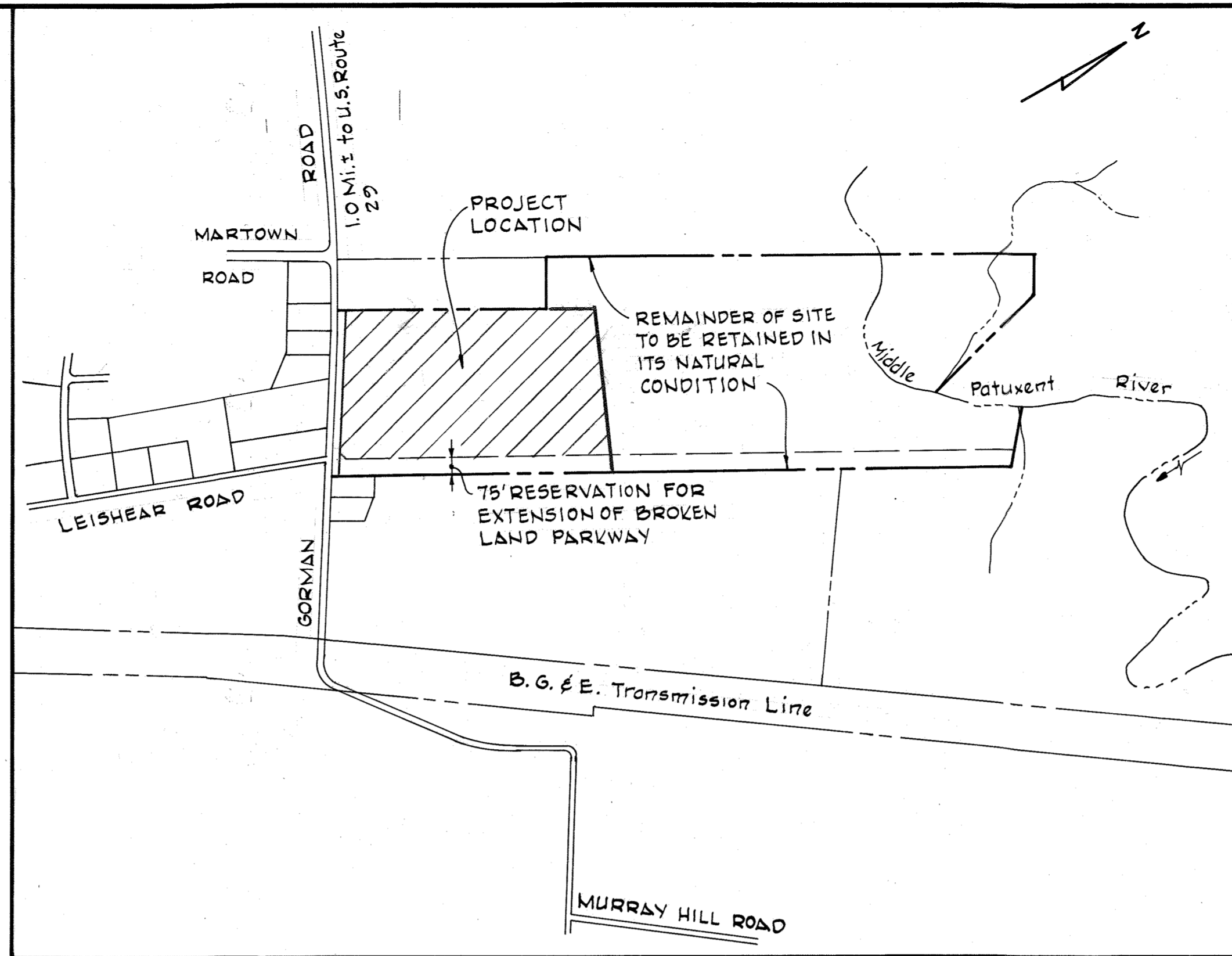
# SITE ANALYSIS

Existing Zoning - New Town - Open Space  
 Final Development Plan - Phase 175 Plat Book  
 \* Area of Lot 1 - 79.439 Acres  
 Proposed Use - EQUESTRIAN CENTER  
 Proposed Parking - 0.015 AC. FOR TWO MODULAR HOMES  
 0.75 Ac. Primary Parking \*\*  
 1.50 Ac. Supplemental Parking  
 2.265 Ac. Total  
 Proposed Building Coverage 1.00 Ac. / 79.439 = 1.27%  
 1.305 / 1.64%

12. HOWARD COUNTY HEALTH DEPARTMENT CONFIRMED PROPER ABANDONMENT OF THE EXISTING SEPTIC SYSTEM.  
 11. PROPOSED LIMITS OF DISTURBANCE FOR THIS REDLINE REVISION IS LESS THAN 5,000 SQUARE FEET. FOR ANY FUTURE DISTURBANCE WHERE THE TOTAL EXCEEDS 5,000 S.F., STORMWATER MANAGEMENT WILL NEED TO BE ADDRESSED.

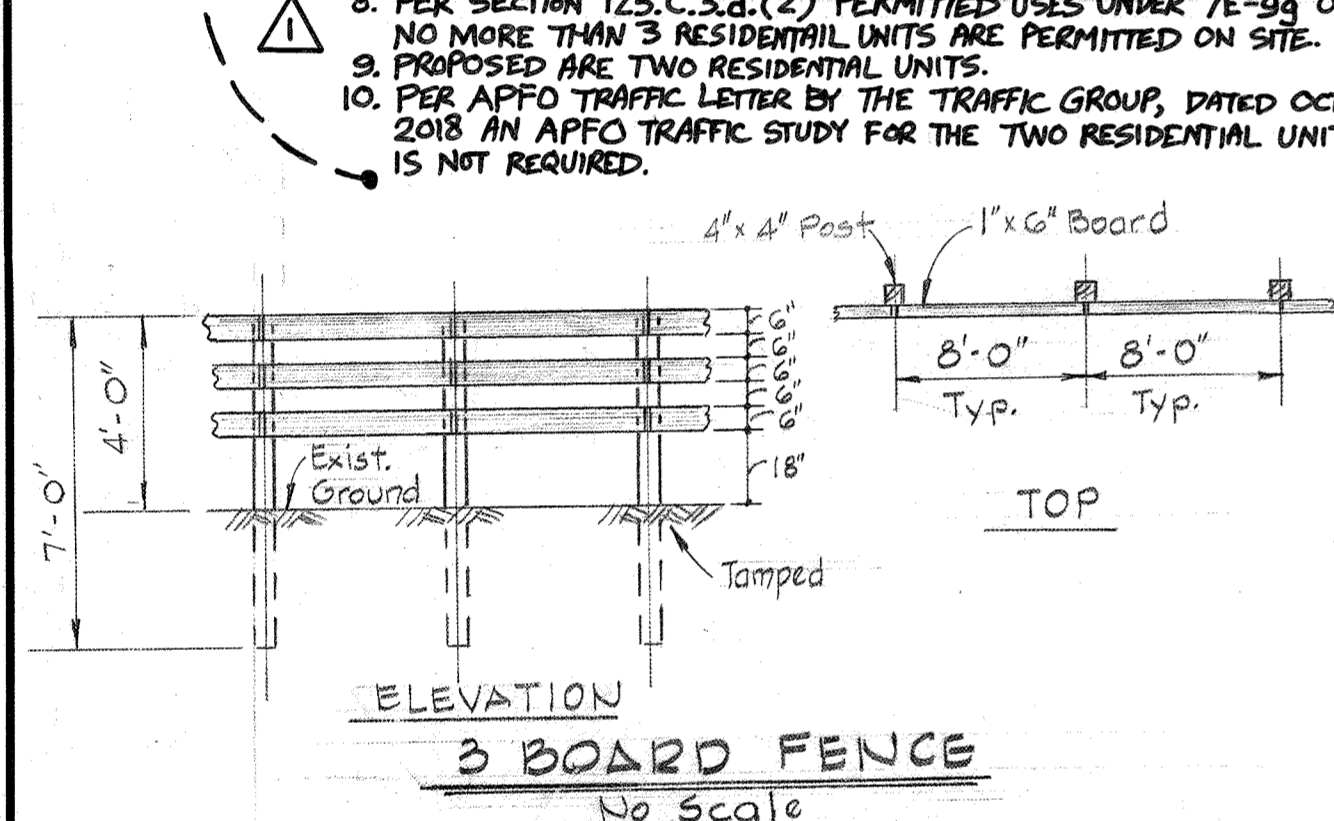
## GENERAL NOTES

- Topography taken from aerial survey by MAPS, INC. and verified by field survey. SUPPLEMENTAL FIELD SURVEY BY FSH ASSOCIATES IN 2018.
- Recording Reference for Lot 1 is Plat Book 4211-13.
- See Architectural Plans for details of proposed buildings.
- All site work construction to be done in accordance with Howard County Road Code and Standard Specifications unless otherwise indicated.
- Public water and sewer to be utilized.
- Any damage to public right-of-way or paving must be corrected at the developers expense.
- Grades have been established to insure positive drainage.
- PER SECTION 125.C.3.d.(2) PERMITTED USES UNDER 7E-9g ON FDP-175-A NO MORE THAN 3 RESIDENTIAL UNITS ARE PERMITTED ON SITE.
- PROPOSED ARE TWO RESIDENTIAL UNITS.
- PER APFO TRAFFIC LETTER BY THE TRAFFIC GROUP, DATED OCTOBER 9, 2018 AN APFO TRAFFIC STUDY FOR THE TWO RESIDENTIAL UNITS IS NOT REQUIRED.

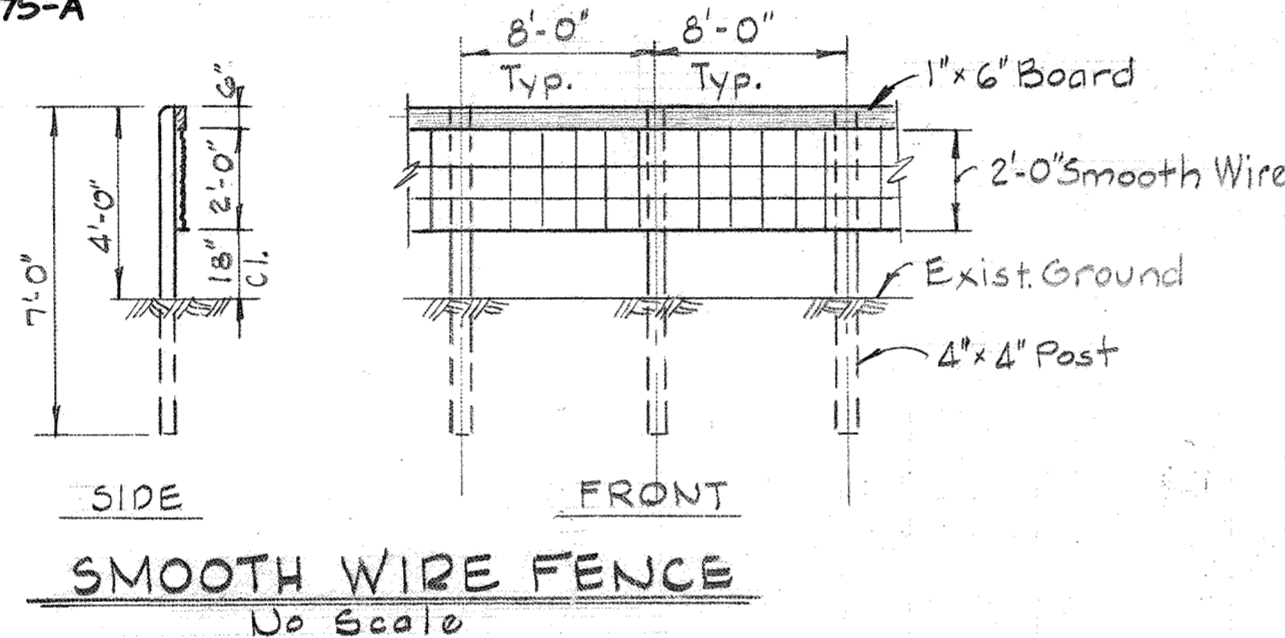


VICINITY MAP  
Scale: 1" = 600'

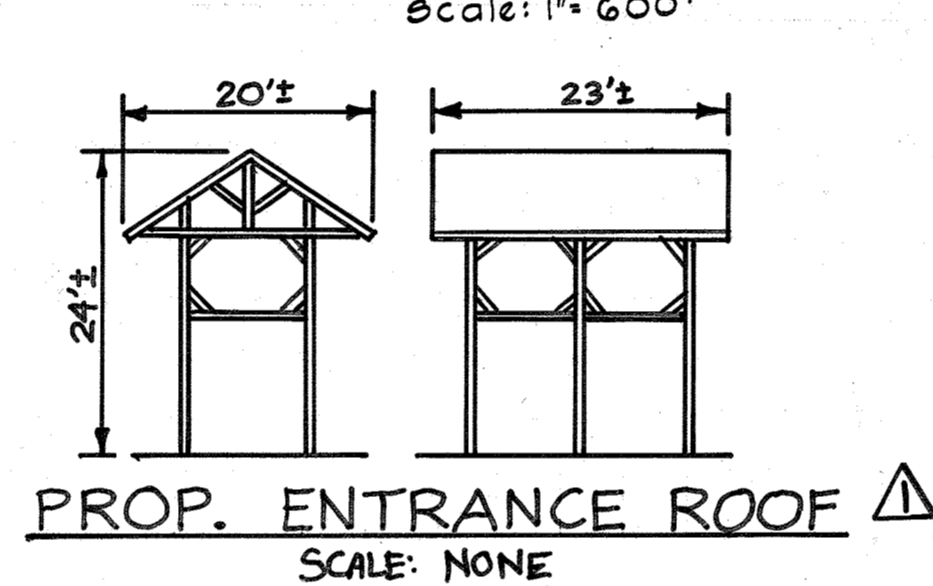
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING PLAN
3	MISCELLANEOUS DETAILS
4	STORM WATER MANAGEMENT POND
5	STORM WATER MANAGEMENT POND
6	SEDIMENT CONTROL PLAN
7	DRAINAGE AREA MAP
8	EXISTING CONDITIONS WITH DETAILED DESIGN



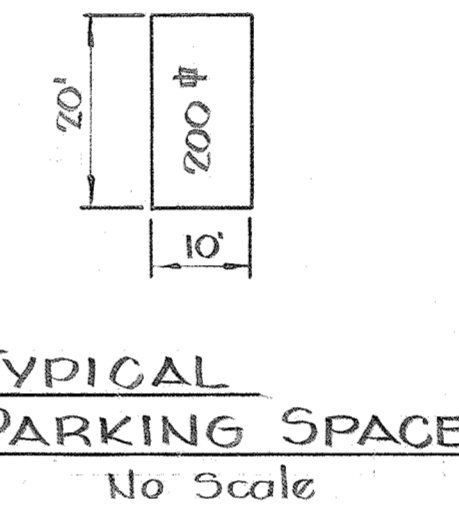
ELEVATION  
3 BOARD FENCE  
No Scale



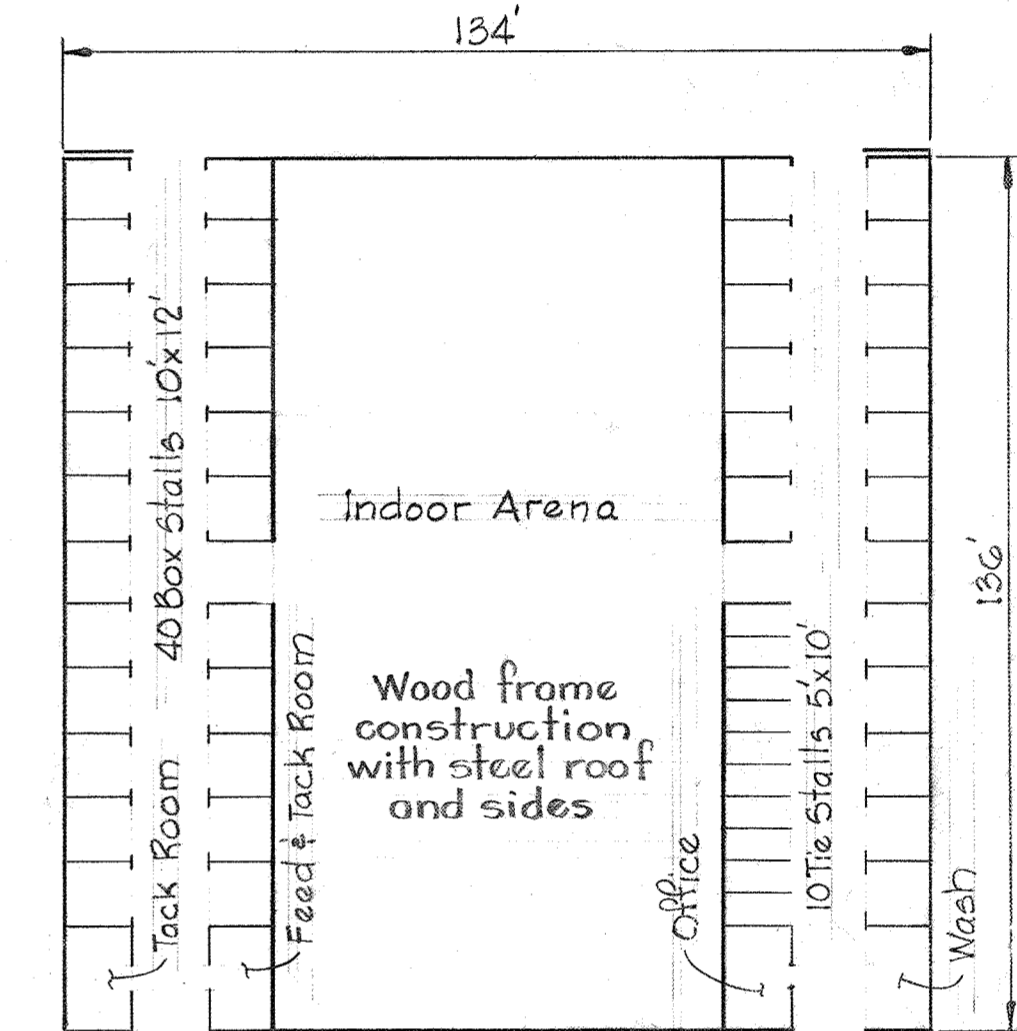
SMOOTH WIRE FENCE  
No Scale



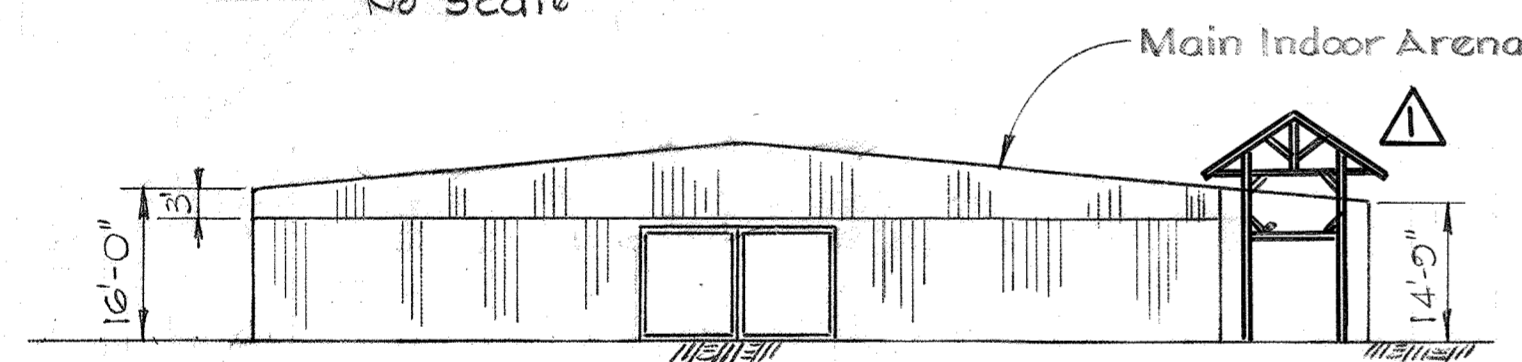
PROP. ENTRANCE ROOF  
SCALE: NONE



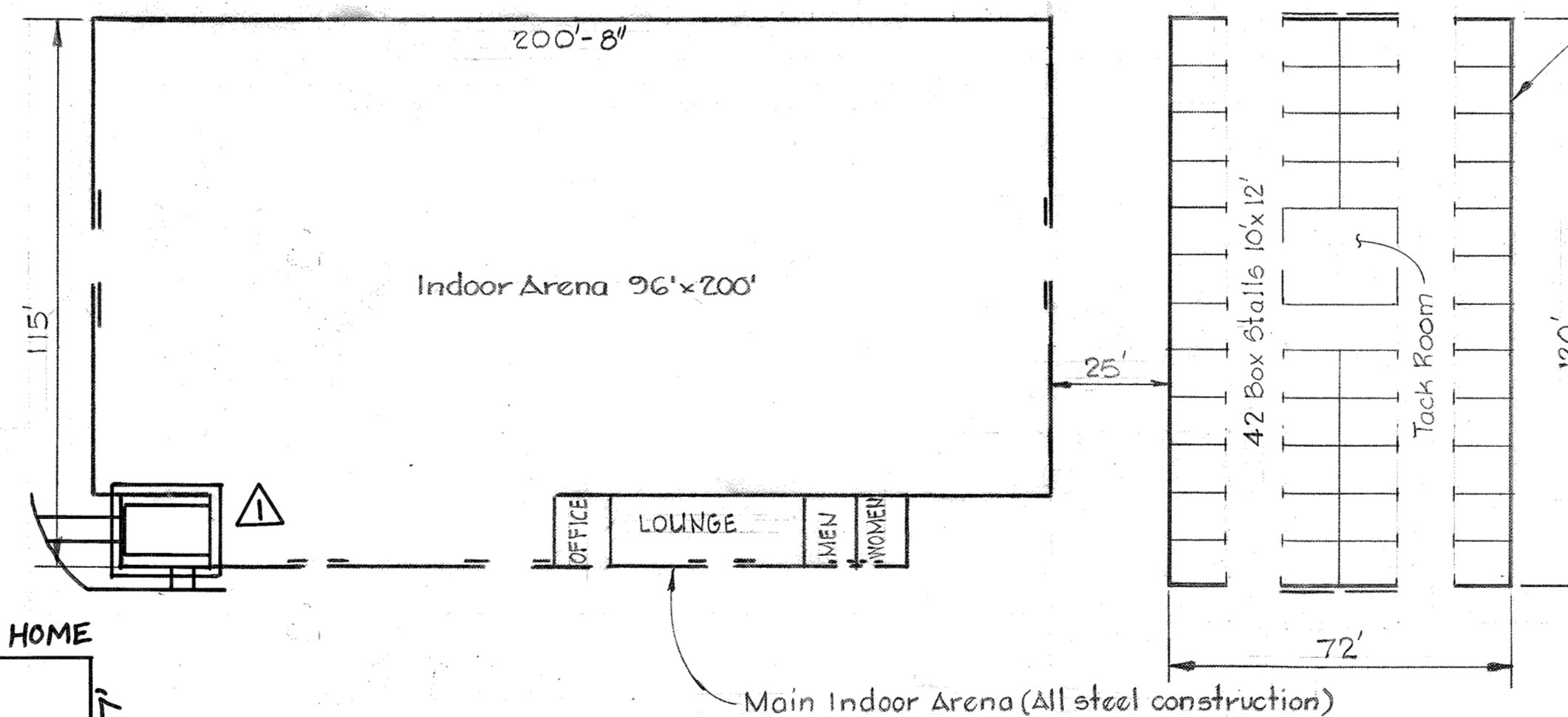
TYPICAL PARKING SPACE  
No Scale



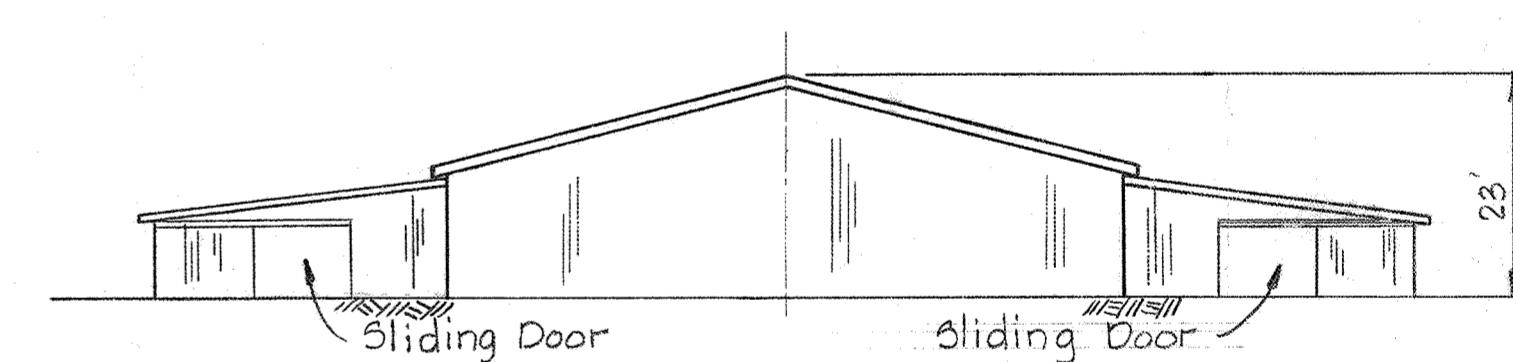
PLAN  
Scale: 1" = 30'



SOUTH ELEVATION  
Scale: 1" = 20'



PLAN  
Scale: 1" = 30'

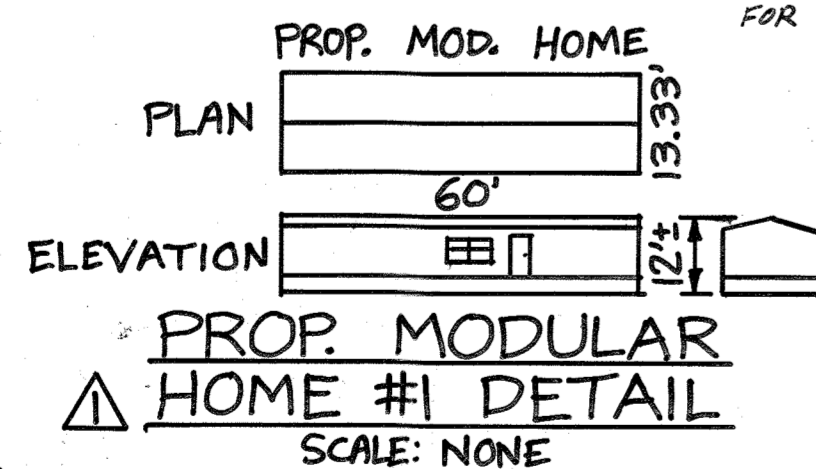


EAST ELEVATION  
Scale: 1" = 20'

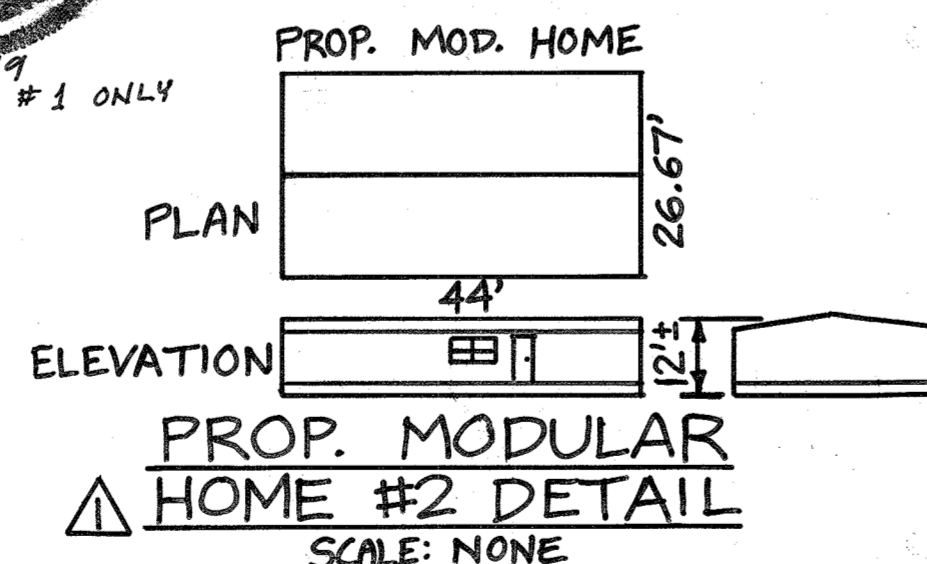
AUXILIARY INDOOR ARENA  
AND ATTACHED STABLES

UNIT	STREET
HORSE CENTER	10400 GORMAN ROAD
MOD. HOME #1	10410 GORMAN ROAD
MOD. HOME #2	10420 GORMAN ROAD

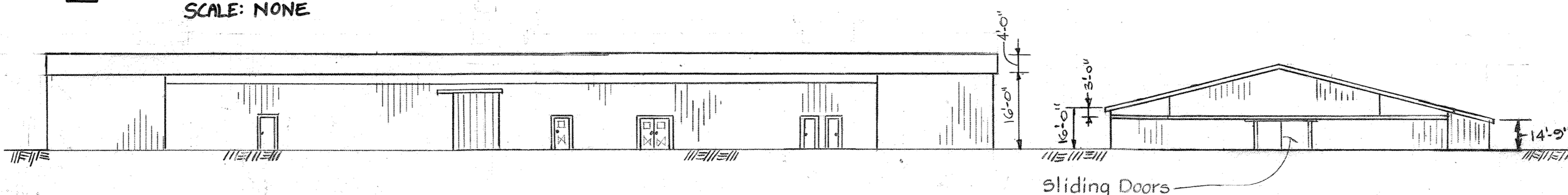
WHITMAN, REQUARDT & ASSOCIATES  
ENGINEERS  
BALTIMORE, MARYLAND



PROP. MODULAR HOME #1 DETAIL  
SCALE: NONE

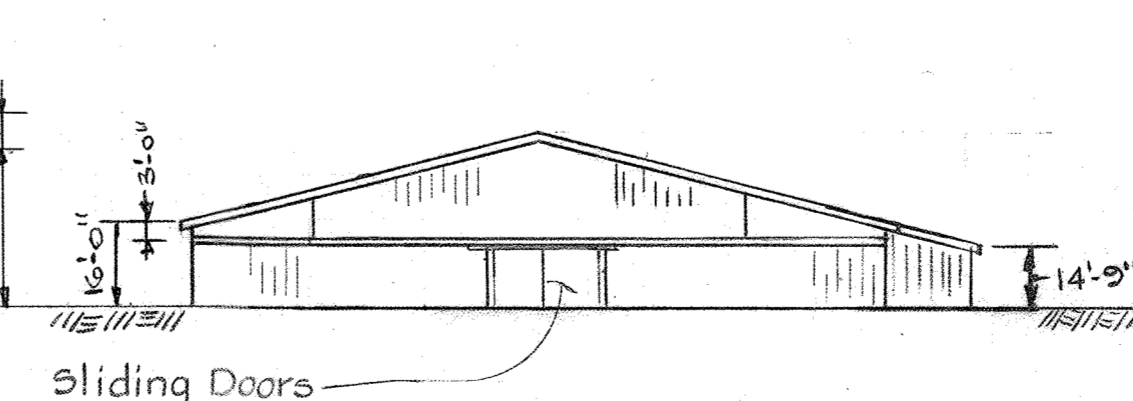


PROP. MODULAR HOME #2 DETAIL  
SCALE: NONE



EAST ELEVATION  
Scale: 1" = 20'

MAIN INDOOR ARENA



No Scale

MAIN BARN

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 2-14-79

DEVELOPER: COLUMBIA ASSOCIATION  
OWNER: HOWARD RESEARCH AND DEVELOPMENT CORP.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 3-5-79  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: [Signature] DATE: 3-27-79  
 CHIEF DIVISION OF LAND DEVELOPMENT  
 APPROVED FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 3-23-79  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 3-22-79

NO.	REVISION	DATE
1	ADDED TO GENERAL NOTES, ADDED ADDRESS CHART, ADDED MOD. HOMES AND ENTRANCE ROOF DETAILS	3-5-79

NO.	DATE	DESCRIPTION OF REVISIONS
<b>COLUMBIA SITE PLANS</b> FOR <b>VILLAGE OF KINGS CONTRIVANCE</b> SECTION 2 AREA 2 A PORTION OF OPEN SPACE LOT NO. 1 <b>TITLE SHEET</b> SHEET 1 OF 8 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND DATE: 1/20/79 SCALE: As Shown SDP-79-86c		

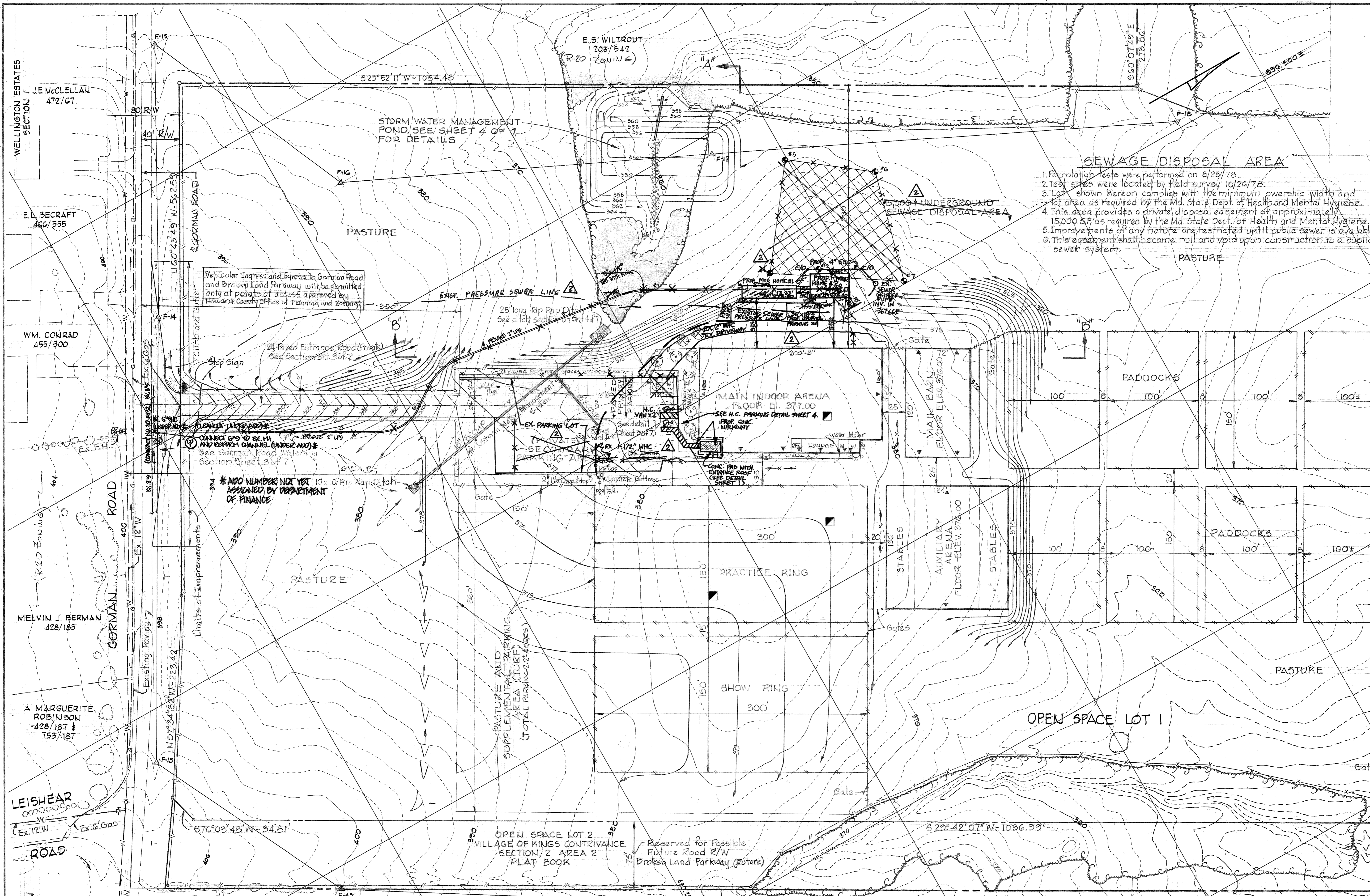
APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER *[Signature]* DATE 3-5-79  
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR *[Signature]* DATE 3-21-79  
 CHIEF DIVISION OF LAND DEVELOPMENT  
 APPROVED FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR *[Signature]* DATE 3-23-79  
 CHIEF BUREAU OF ENGINEERING *[Signature]* DATE 3-22-79

**SEWAGE DISPOSAL AREA**

1. Percolation tests were performed on 8/28/78.
2. Test sites were located by field survey 10/24/78.
3. Lot shown hereon complies with the minimum ownership width and lot area as required by the Md. State Dept. of Health and Mental Hygiene.
4. This area provides a private disposal easement of approximately 15,000 S.F. as required by the Md. State Dept. of Health and Mental Hygiene.
5. Improvements of any nature are restricted until public sewer is available.
6. This easement shall become null and void upon construction to a public sewer system.

**LEGEND**

- - - Existing Contours (2' Interval)
- - - Proposed Contours (1' Interval)
- 370.0 Proposed Spot Elevation
- Existing Tree Line
- Percolation Test 8/28/78
- △ Control Traverse
- Wood Fence
- Wire Fence
- White Pine 8'-10' Hgt.
- Douglas Fir 8'-10' Hgt.
- Littleleaf Sap. Holly 4'-5' Hgt.
- Test Pit
- Parking for Handicapped
- Stop Sign
- 150 WATT WALL MOUNTED SPOTLIGHT



REMAINDER OF SITE TO BE RETAINED IN ITS NATURAL CONDITION

**TEST HOLES (M)**

2	CLAYEY SILT
2	CLAYEY SAND
5	SANDY SILT
8	

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 2-14-79

**COLUMBIA**  
 SITE PLAN  
 FOR  
 VILLAGE OF KINGS CONTRIVANCE  
 SECTION 2 AREA 2  
 A PORTION OF OPEN SPACE LOT NO. 1  
**GRADING PLAN**  
 SHEET 2 OF 8  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 DATE: SCALE: 1"=50'

WHITMAN, REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND  
*[Signature]*  
 KENNETH A. McCORD P.E. No. 1974.

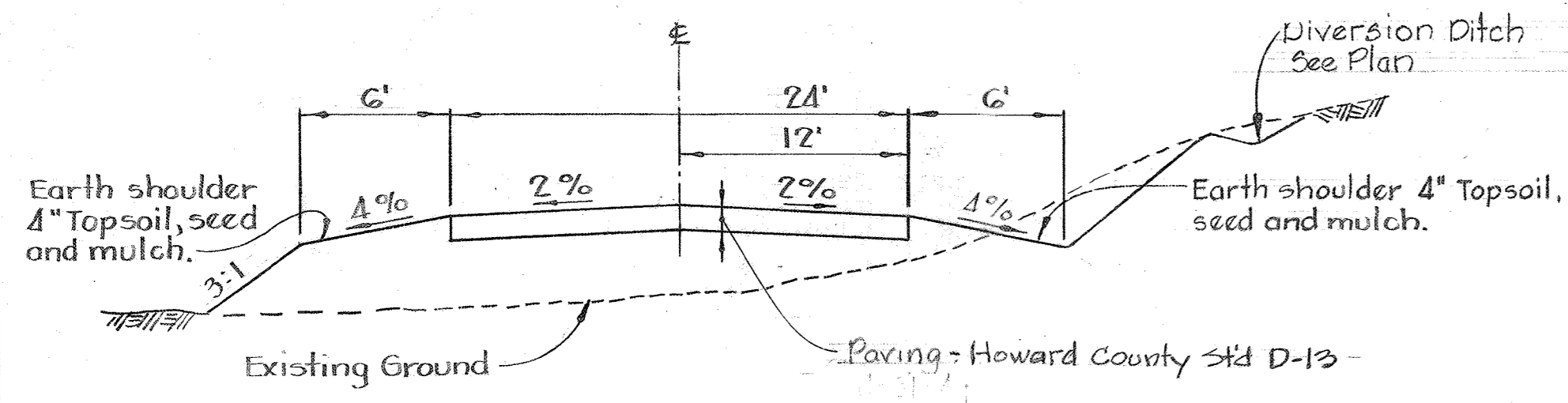
**DEVELOPER**  
 COLUMBIA ASSOCIATION  
 5829 BANUEKER ROAD  
 COLUMBIA, MD. 21044

**OWNER**  
 HOWARD RESEARCH AND DEVELOPEMENT CORP.  
 10275 LITTLE PATUXENT PKWY.  
 COLUMBIA, MD. 21044

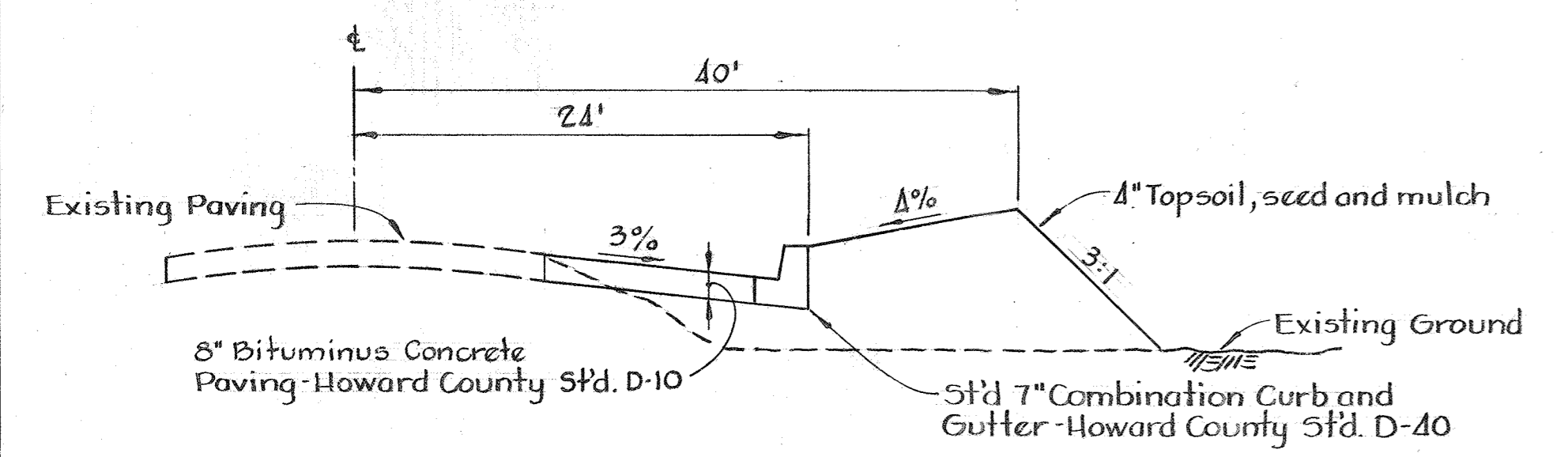
RESERVED FOR POSSIBLE FUTURE ROAD R/W BROKEN LAND PARKWAY (FUTURE)

2. FROM OLD SEPTIC FIELD. ADDED 2 MOD. HOMES. UPDATED SEWER PRESSURE LINE, WATER LINE, PARKING LOT, DRIVEWAY & BUILDING ENTRANCE. 9/9/79

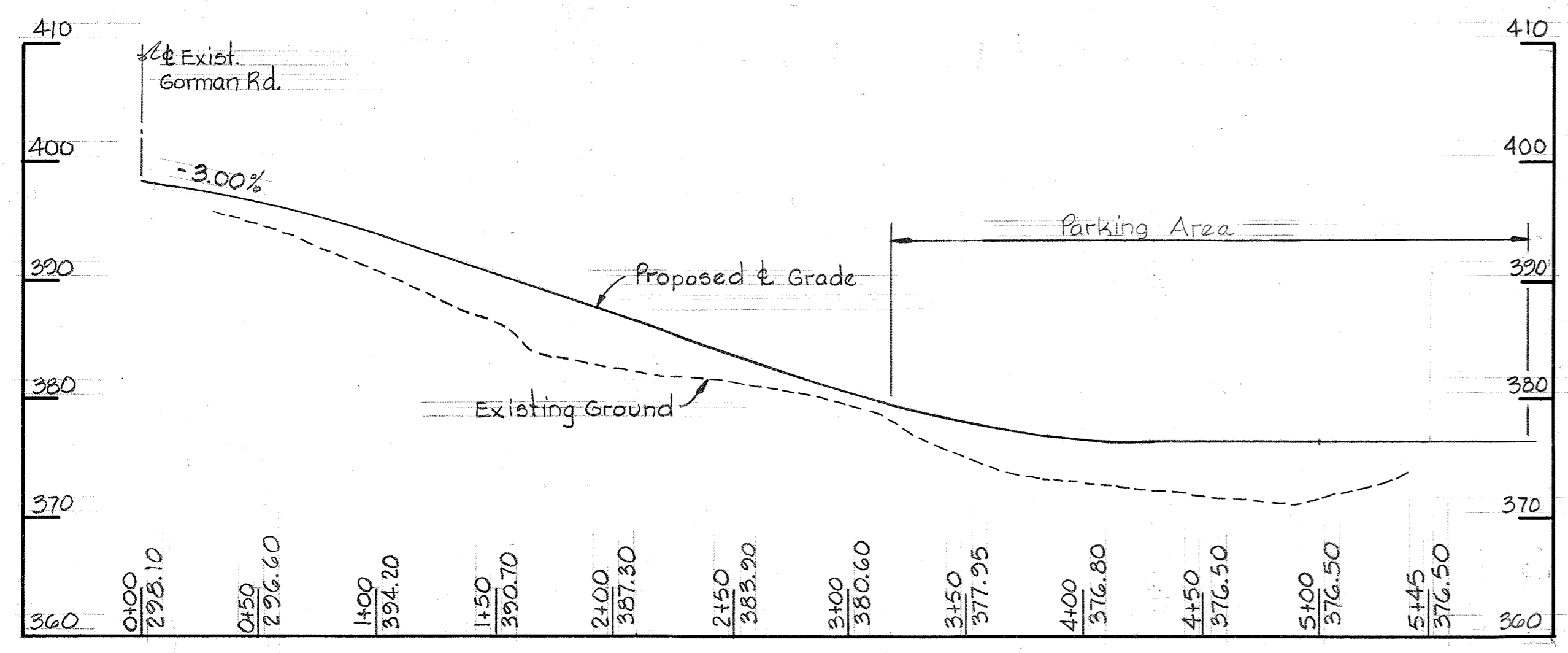
1. ADDED LOW PRESSURE SEWER MAIN REVISION. 8/2/77



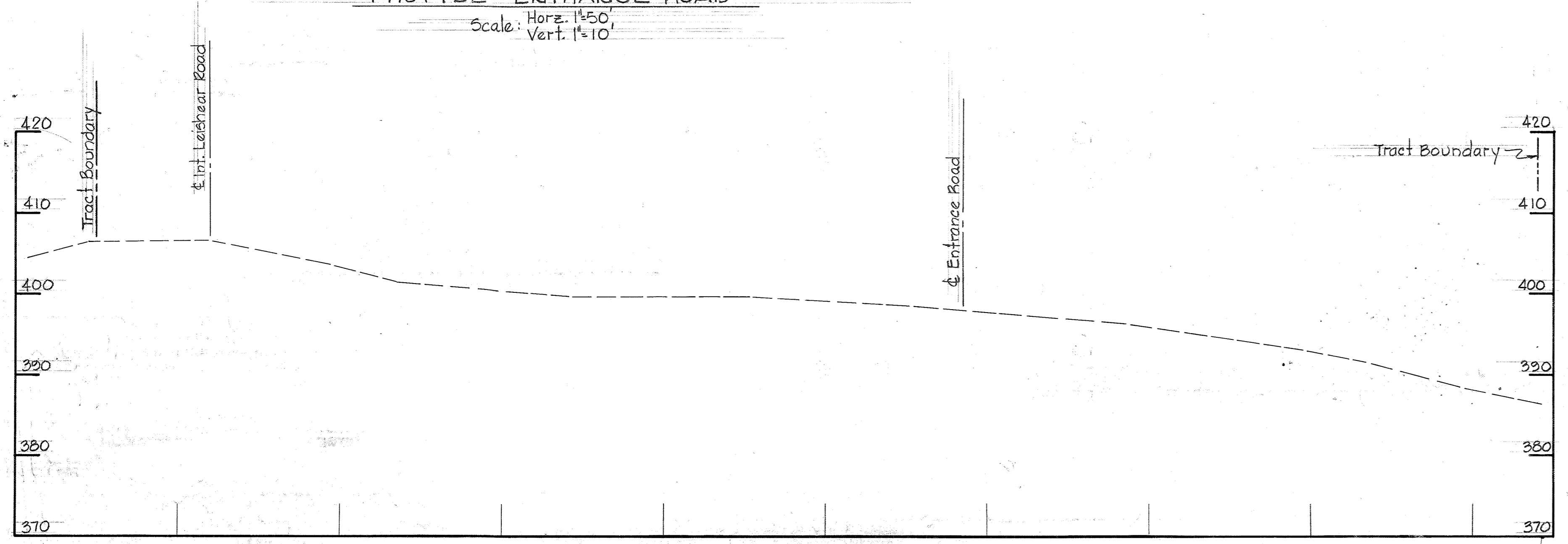
TYPICAL SECTION - ENTRANCE ROAD & PARKING  
No Scale



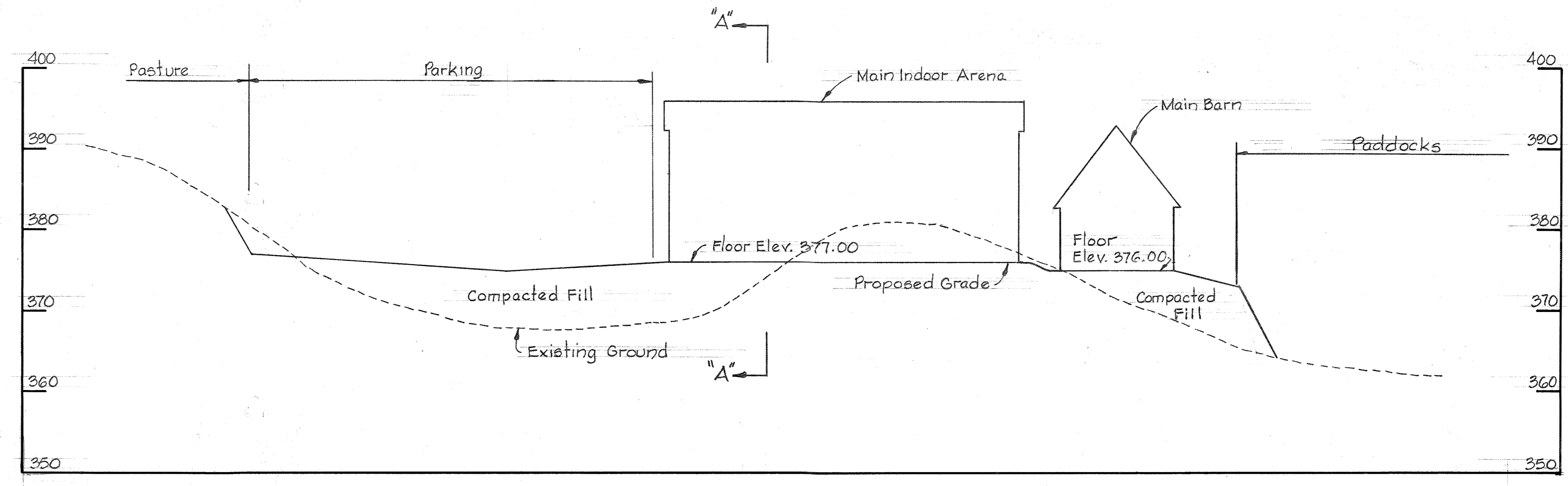
TYPICAL SECTION - GORMAN ROAD WIDENING  
No Scale



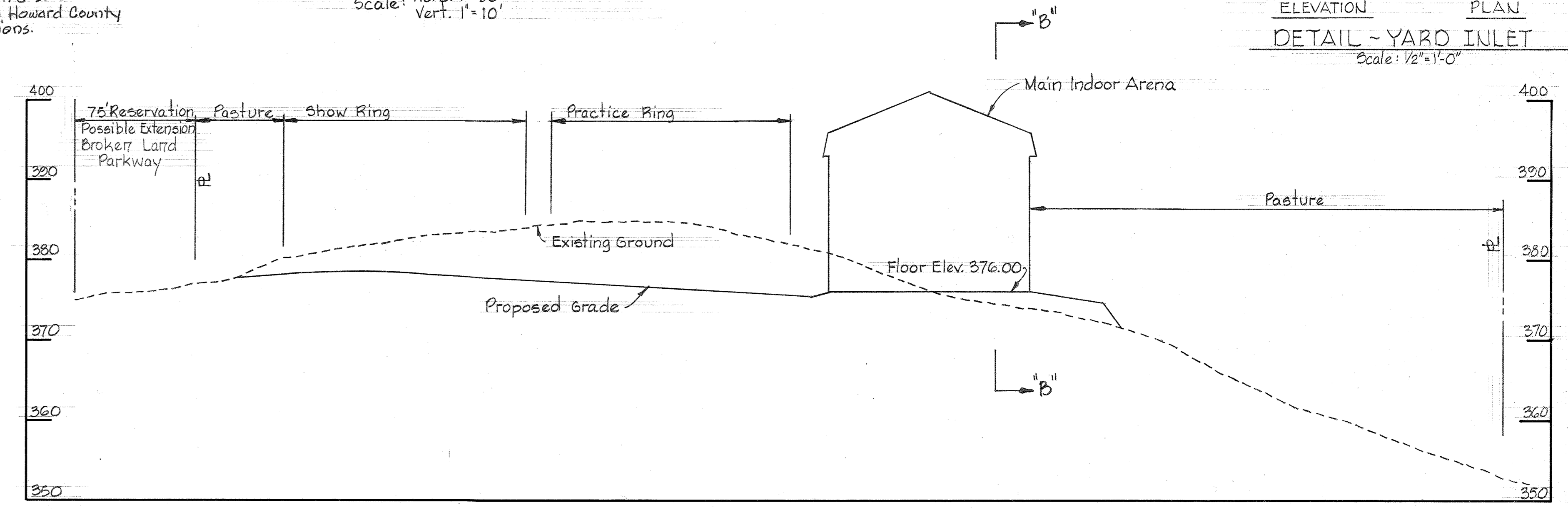
PROFILE - ENTRANCE ROAD  
Scale: Horz. 1"=50', Vert. 1"=10'



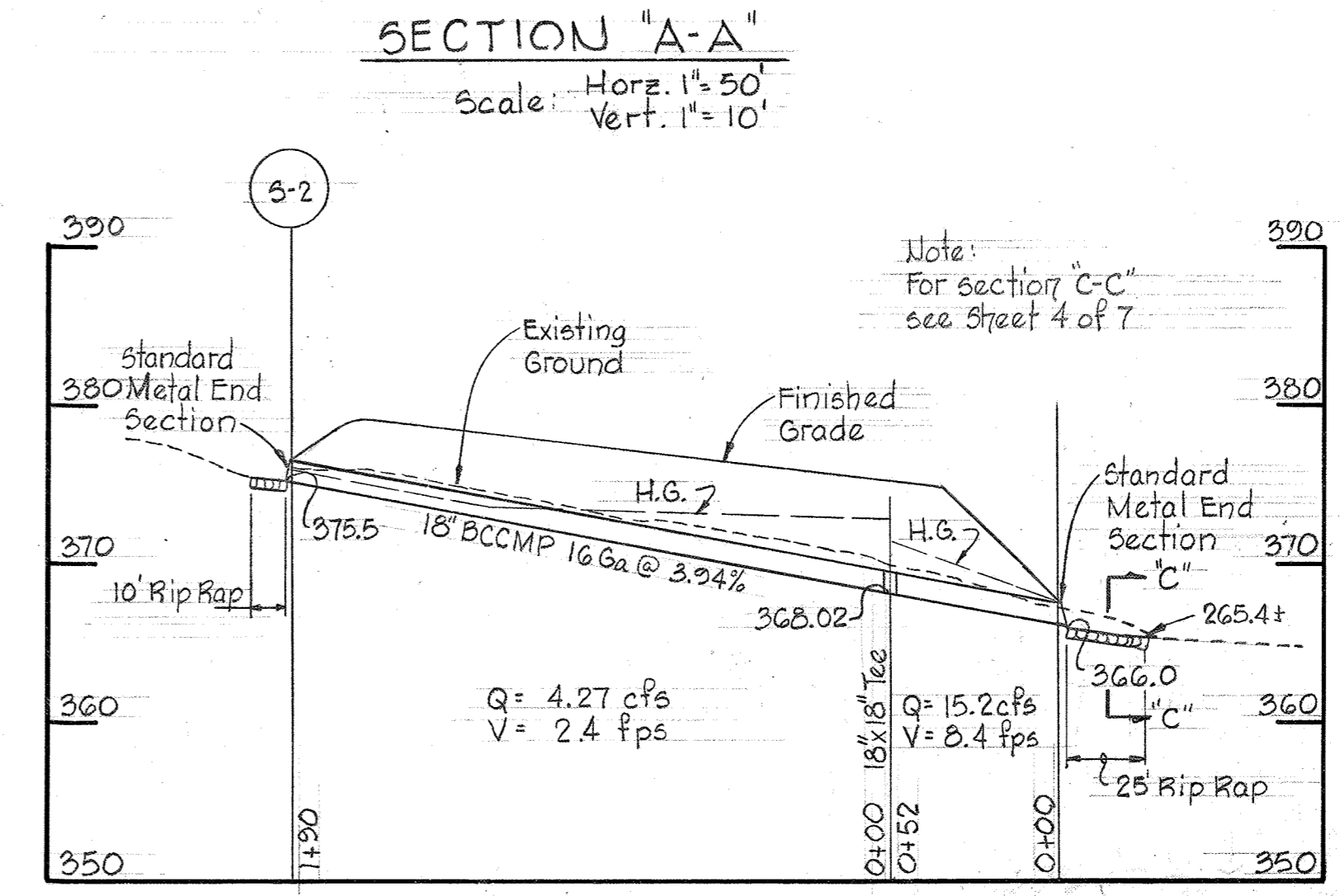
PROFILE & GORMAN ROAD  
Scale: Horz. 1"=50', Vert. 1"=10'



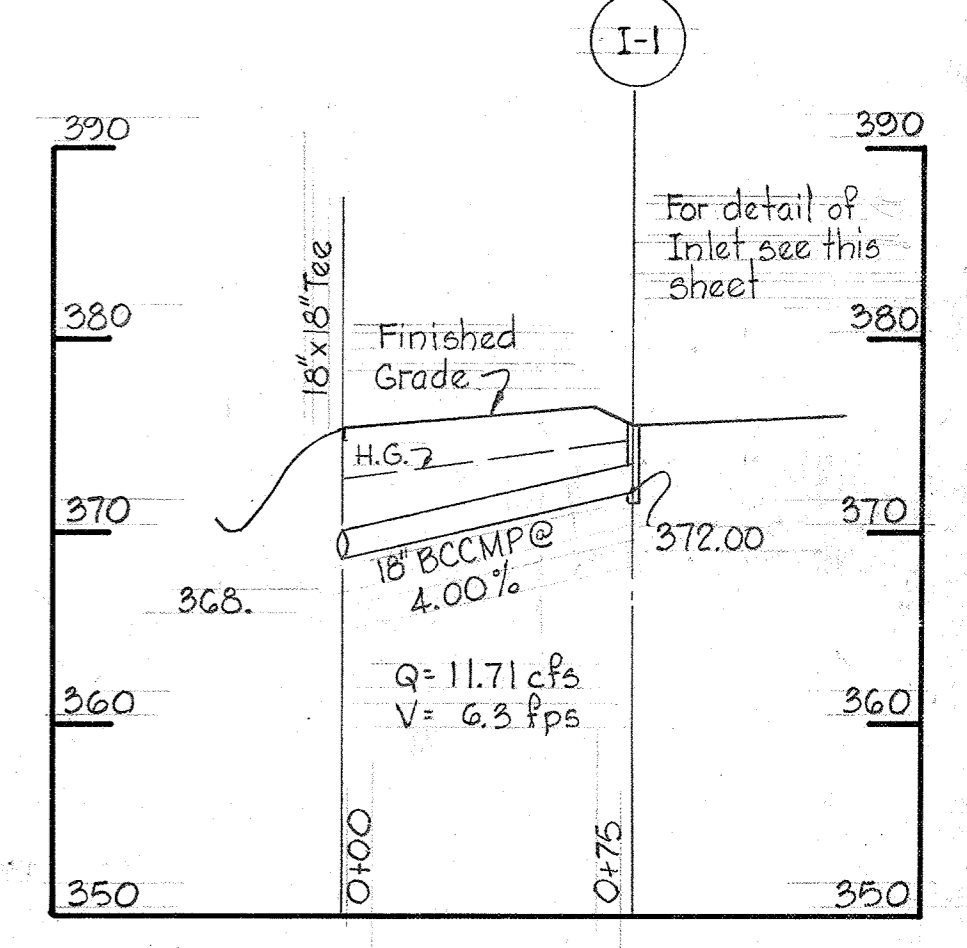
SECTION 'A-A'  
Scale: Horz. 1"=50', Vert. 1"=10'



SECTION 'B-B'  
Scale: Horz. 1"=50', Vert. 1"=10'

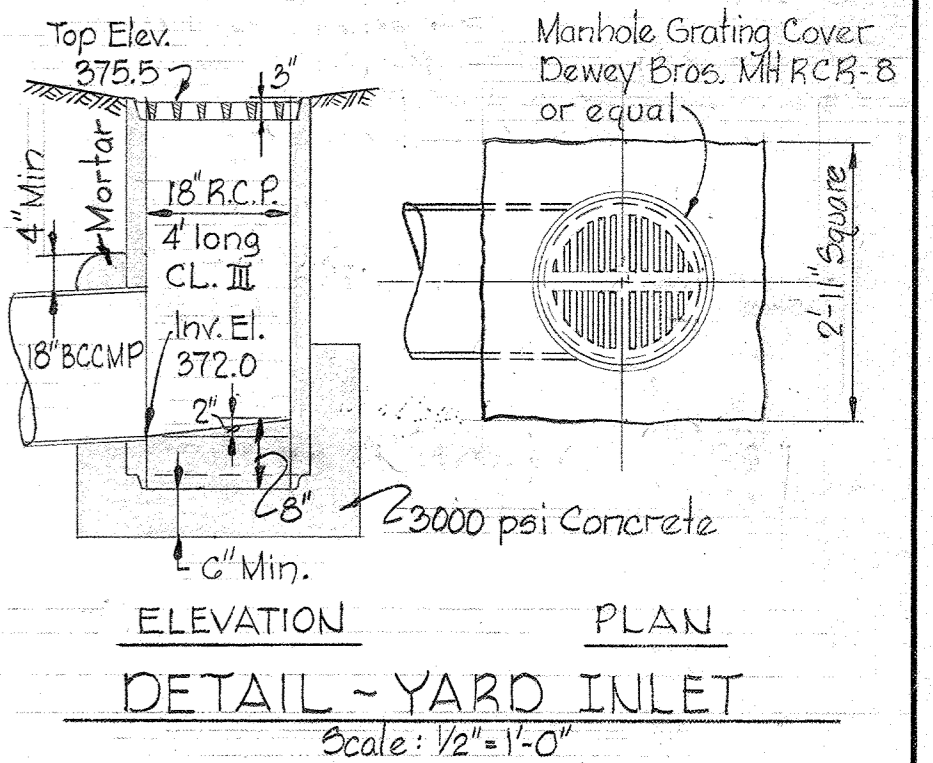


STORM DRAIN PROFILE  
Scale: Horz. 1"=50', Vert. 1"=10'

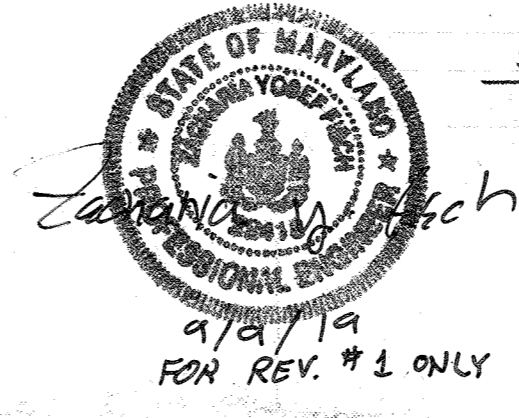


STORM DRAIN PROFILE  
Scale: Horz. 1"=50', Vert. 1"=10'

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *William B. Miller* 3-5-79 DATE  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: *Thomas L. Hanning* 3-27-79 DATE  
 CHIEF, DIVISION OF LAND DEVELOPMENT: *William B. Miller* 3-27-79 DATE  
 APPROVED FOR PUBLIC WATER, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *Heath F. Nunn* 3-23-79 DATE  
 CHIEF, BUREAU OF ENGINEERING: *W. O. LeVat* 3-22-79 DATE



DETAIL - YARD INLET  
Scale: 1/2"=1'-0"



WHITMAN, REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND  
 Kenneth A. McCord  
 KENNETH A. MCCORD P.E. No. 17871

DEVELOPER  
 COLUMBIA ASSOCIATION  
 5829 BANNER ROAD  
 COLUMBIA, MD 21044

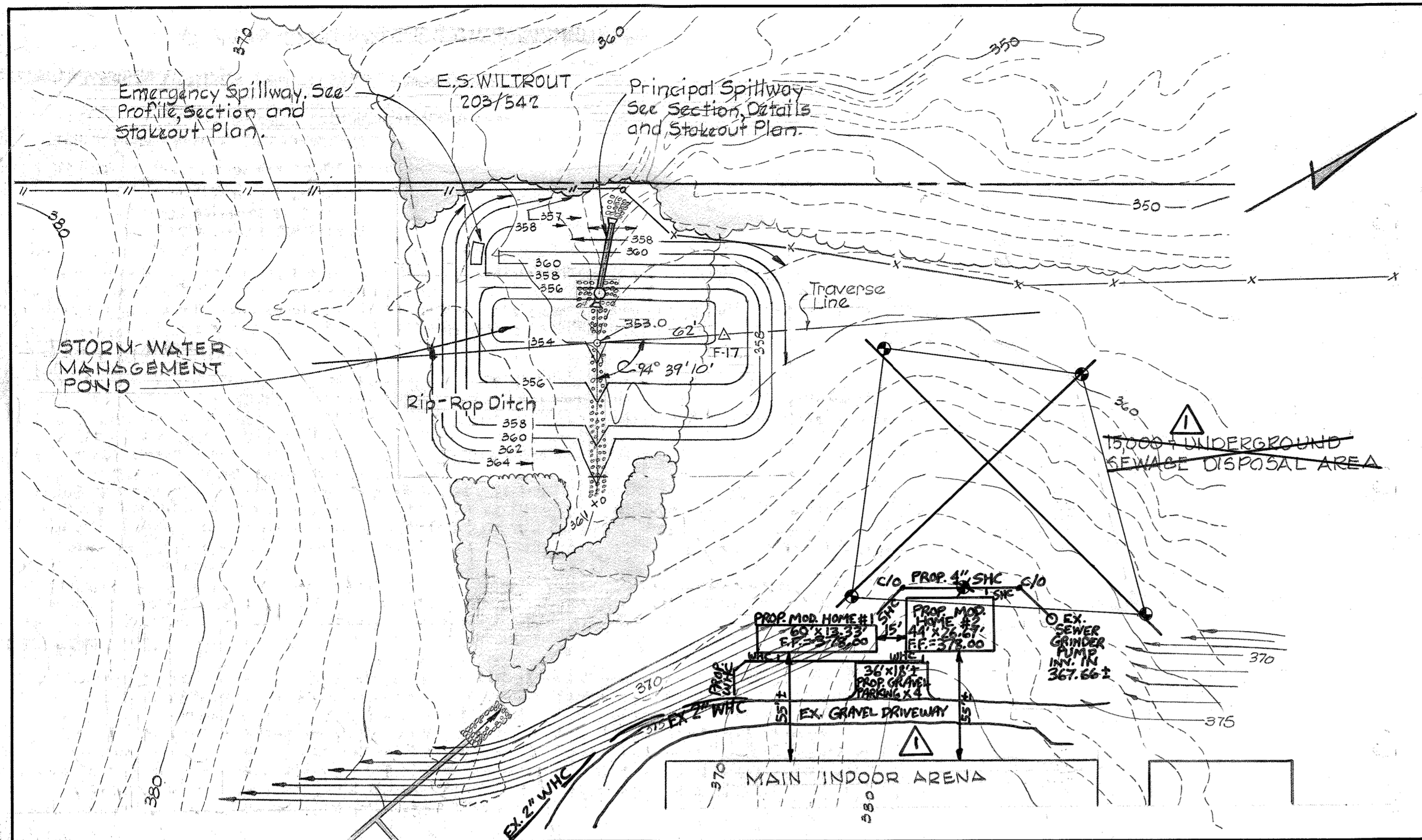
OWNER  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 10275 LITTLE PATUXENT PKWY.  
 COLUMBIA, MD. 21044

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 2-14-79  
*DMH*

TAX MAPS 41, 42 & 47  
 PARCEL 337

COLUMBIA  
 SITE PLAN  
 FOR  
 VILLAGE OF KINGS CONTRIVANCE  
 SECTION 2 AREA 2  
 A PORTION OF OPEN SPACE LOT NO. 1  
 MISCELLANEOUS DETAILS  
 SHEET 3 OF 8  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 DATE: SCALE: AS SHOWN

ADJUSTED TOTAL SHEETS IN TITLE BLOCK.	9-5-19
NO. REVISION	DATE

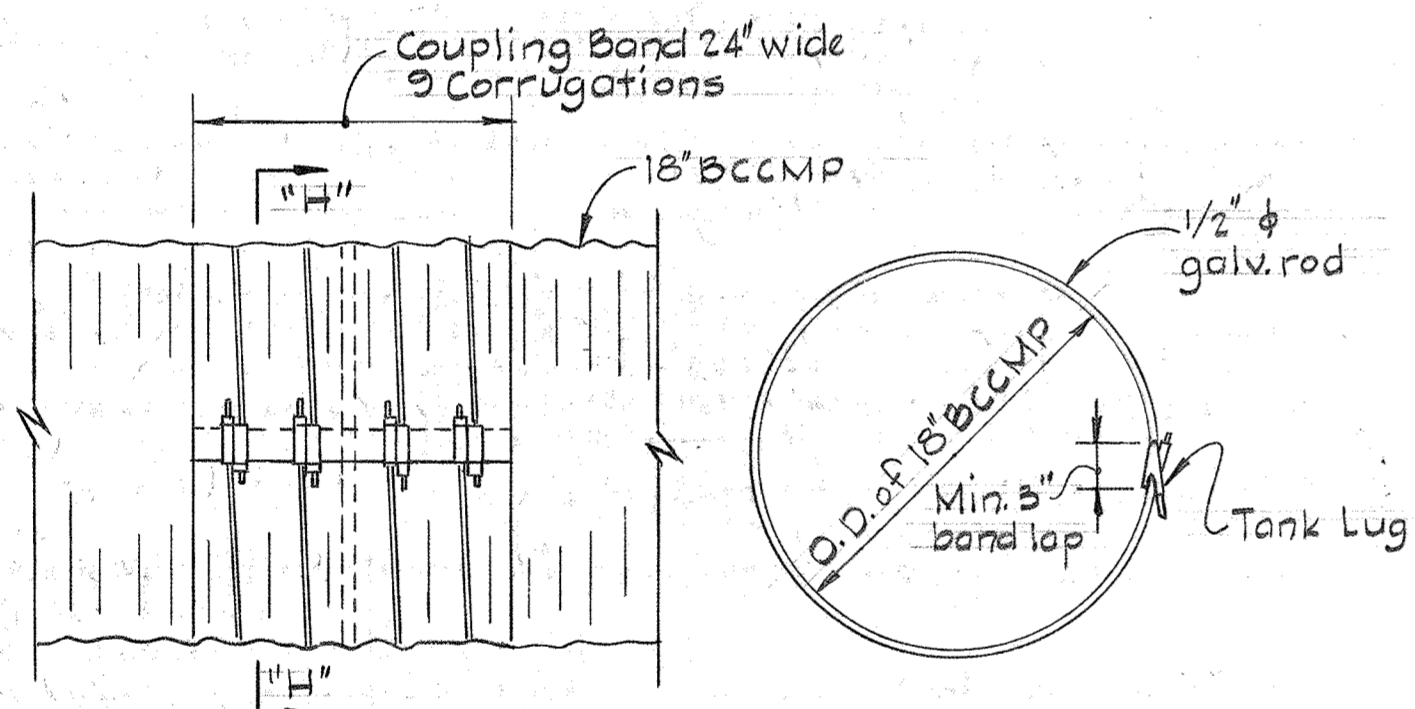


**SITE PLAN - STORM WATER MANAGEMENT POND**

Scale: 1" = 50'

**POND DESIGN DATA**  
DRAINAGE AREA = 12.3 Acres

2YR. STORM	10YR. STORM	25YR. STORM
Peak Inflow = 12.2 cfs	Peak Inflow = 29.6 cfs	Peak Inflow = 35.1 cfs
Release = 4.6 cfs	Release = 15.3 cfs	Release = 4.4 cfs
Storage = 0.15 Ac.Ft.	Storage = 0.62 Ac.Ft.	Storage = 0.95 Ac.Ft.



**NOTES**

- Galvanized rods shall be 1/2" dia. 72" long and threaded 9" at both ends.
- The coupling band shall have sufficient length to give a minimum 3" band lap.
- The coupling band shall be 16 gage.
- Rivets in the longitudinal seam under the collar to be omitted and seam stitch welded.
- The coupling band shall be asphalt coated - Type A.
- Field application of asphalt base shall be cement coated with asbestos fibers (roof cement) applied at top of the coupling bands.

**DETAIL - WATERTIGHT JOINT**

No Scale

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

APPROVED: Wiltrout Products 3-1-79 DATE

PLAN NUMBER

**CERTIFICATION 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 COMPLETING POND RECURBISHING."

Padraic M. Kennedy 1-2-79 DATE

DATE

1. REM. OLD SEPTIC FIELD. ADDED 2 MOD. HOMES & PARKING. UPDATED DRIVEWAY. ADDED H.C. PARKING DETAIL & CONC. SIDEWALK. 9-5-19

**CERTIFICATION 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."

Kenneth A. McCord 12-22-78 DATE

KENNETH A. McCORD, P.E. 1974 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.

Robert D. Ziehm 3/2/79 DATE

U.S. SOIL CONSERVATION SERVICE

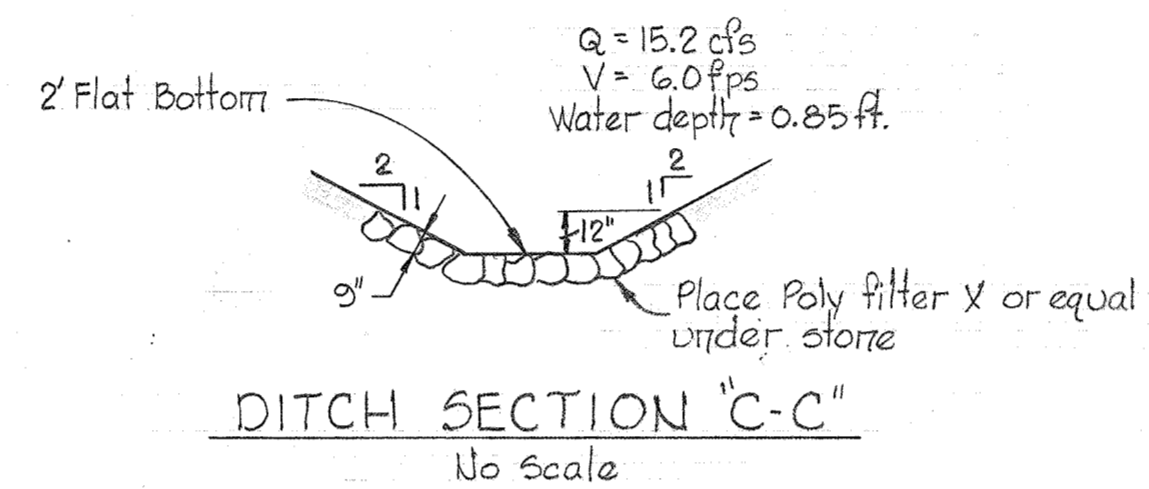
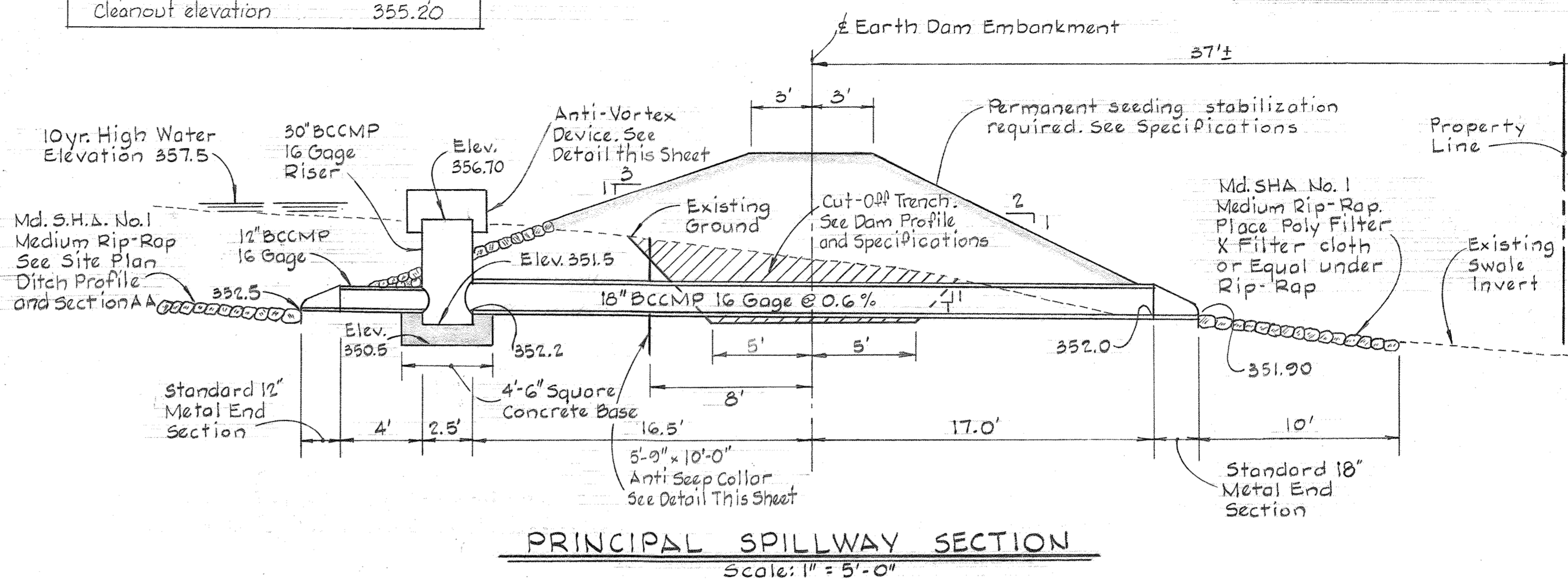
**SEDIMENT CONTROL**

Drainage Area	12.3 acres
Sediment Volume required	825 cy
Sediment Volume available	1000 cy
Cleanout elevation	355.20

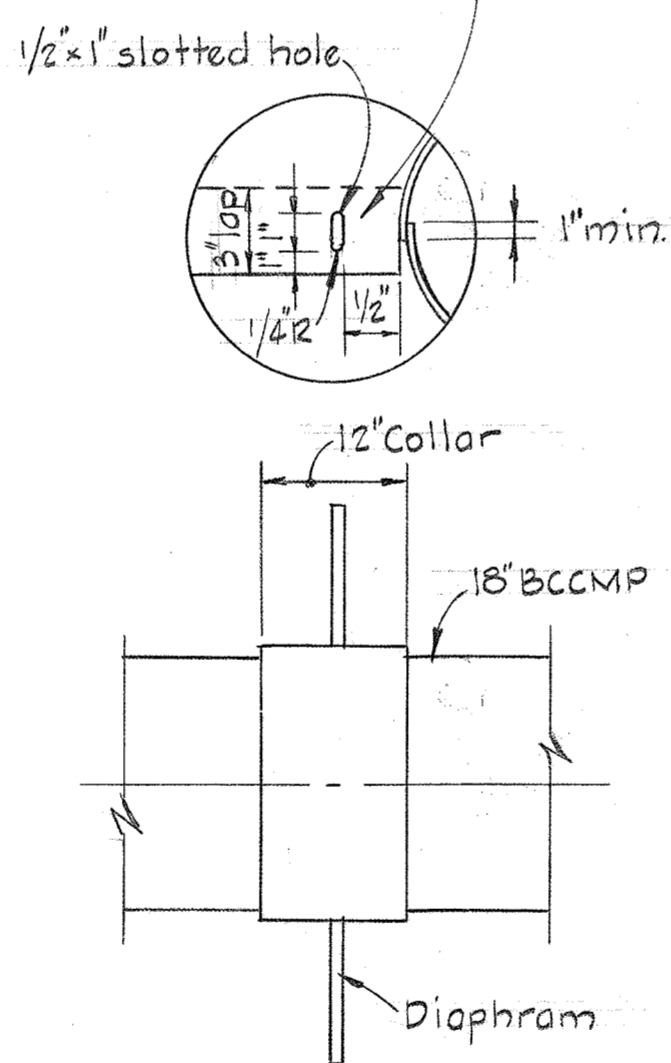
**SITE EARTHWORK**

Excavation	- 26,000 cu.yds
Fill	- 26,000 cu.yds

Note: If the ponds slopes are not to be mowed, then apply crownweat planting. See seeding specifications Sheet 5 of 7



During assembly, fill in open area between sheets and pipe bands with burlap impregnated with asphalt cement to make watertight



**DETAIL - ANTI-SEEP COLLAR**

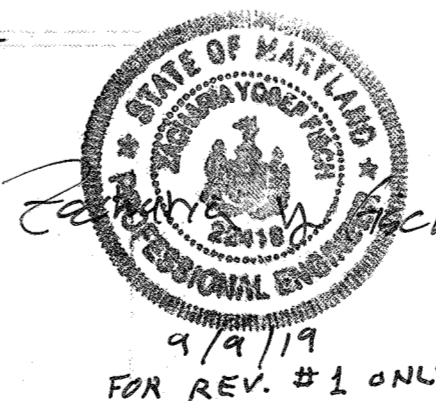
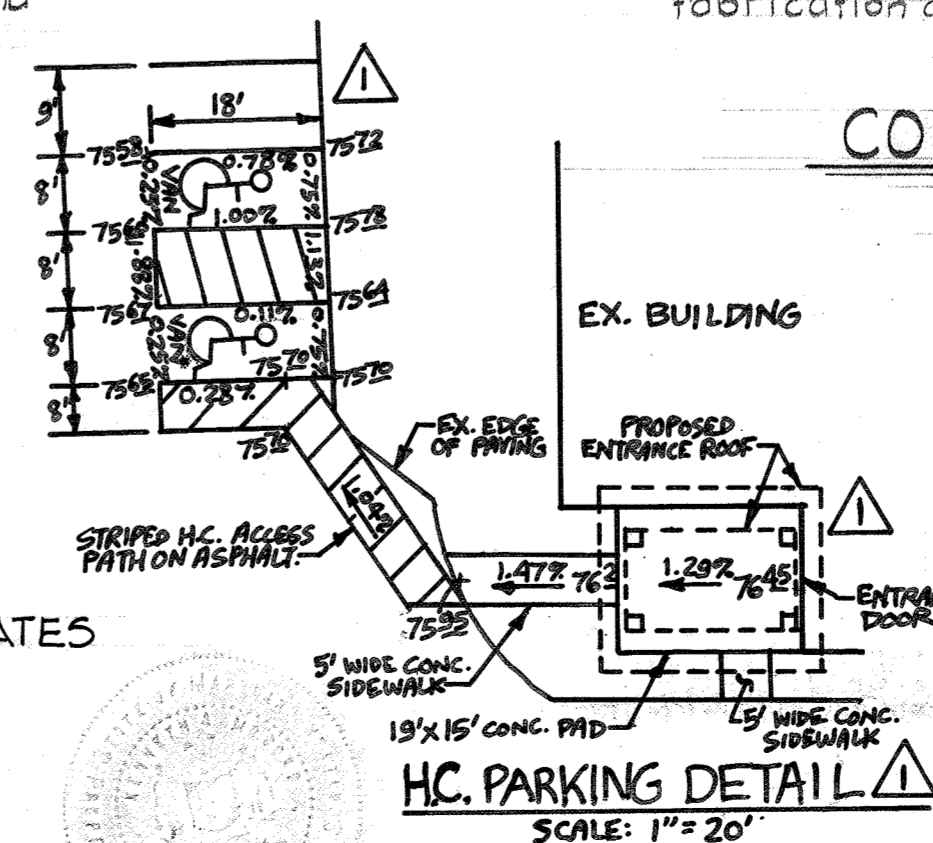
No Scale

**NOTES**

- Diaphragm shall be located at other than pipe joints.
- 1/2" x 1" slotted holes for 3/8" x 1" bolts in one half (upper or lower) of diaphragm only. Use 1/2" holes in other matching half.
- All bolts, nuts, rivets and washers shall be galvanized, cadmium plated or stainless steel.
- Paint facing surfaces of laps with asphalt cement before shop assembly.
- After welding, damaged zinc coating shall be repaired by thoroughly cleaning on both sides of the metal and painting with 2 coats of zinc oxide zinc dust paint.

**DETAIL CONCENTRIC ANTI-VORTEX DEVICE AND TRASH RACK**

No Scale



WHITMAN, REQUARDT & ASSOCIATES

ENGINEERS

BALTIMORE, MARYLAND

Kenneth A. McCord

KENNETH A. McCORD P.E. NO. 1974

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

John M. Boylan 3-5-79 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas L. Davis 3-27-79 PLANNING DIRECTOR DATE

William M. Johnson 5-27-79 CHIEF DIVISION OF LAND DEVELOPMENT DATE

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

John F. Denny 3-23-79 DIRECTOR DATE

W.O. Feltner 3-22-79 CHIEF, BUREAU OF ENGINEERING DATE

**COLUMBIA SITE PLAN**

FOR

**VILLAGE OF KINGS CONTRIVANCE**

SECTION 2 AREA 2

A PORTION OF OPEN SPACE LOT NO. 1

**STORM WATER MANAGEMENT POND**

SHEET 4 OF 8

ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND

DATE: 2-14-79

SCALE: 1" = 50'

3/20/79

SDP-79-86c

**POND SPECIFICATIONS**

**PERMANENT SEEDING** (See General Notes Below)

- LIME = 2 Tons/acre agricultural ground limestone
- FERTILIZER = 1000lbs./acre (10-10-10)
- SEEDING = 100 lbs./acre of the following:
  - 20% Kentucky Blue Grass
  - 20% Merion Blue Grass
  - 55% Creeping Red Fescue
  - 5% Redtop

Mulch Required - Mulch area with straw at the rate of 75 LBS./1000 S.F. or 1.5 tons/acre.  
Anchor with asphalt at the rate of 480 gallons/acre.  
Stabilization of slopes steeper than 3:1 shall be planted with crownvetch including 15 lbs./acres (0.34 lbs./1000 s.f.) Kentucky 31 Tall Fescue 40 lbs./acres (1 lb./1000 s.f.)

**EARTH DAM EMBANKMENT**

- Suitable material from the pond excavation may be used for the embankment.
- Suitable material shall be placed in 8" loose layers and compacted to 90% of ASSHTO T-180, Method D.
- Moisture content of the suitable material shall be within the range of 2% below optimum moisture to 3% above optimum moisture.
- Area under the embankment shall be cleared and grubbed to remove all trees, vegetation, roots or other objectionable material and topsoil stripped.
- The fill material shall be free from roots, stumps, wood rubbish, oversize stones, frozen or other objectionable material. The fill height all along the length of the embankment shall be increased by 10%.
- Fill materials shall be placed in 8" maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous material shall be placed in the downstream portions of the embankment.
- Compaction shall be by multiple wheel pneumatic tired roller, vibratory roller or other types of acceptable rollers. Rolling of each layer shall be continuous over its entire area and the roller shall sufficient coverages to insure that the required density has been obtained.

**PRINCIPAL SPILLWAY**

- Backfill around the Principal Spillway pipes shall be placed in horizontal layers not to exceed 4 inches in thickness and compacted by hand tampers or other compaction equipment. At no time during the backfilling operation, shall construction equipment be allowed to operate closer than 4 feet to any part of the Spillway Pipes. Under no circumstances shall the contractor drive equipment over any part of the Spillway Pipes unless there is a compacted fill to a depth of 24" inches or greater over the pipes.
- The Spillway Pipes shall be firmly and uniformly bedded throughout the entire length. Where rock or other unsuitable soil is encountered under the pipes all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

**CONCRETE**

- Concrete shall have a minimum of 6 bags of cement per cubic yard and water content not to exceed 6 gallons per bag of cement. Slump shall range 3"-4". All concrete shall be transit mix.

**CUT OFF TRENCH**

- The backfill material for the Cut-Off Trench shall be the most impervious material available from the pond excavation. The material shall be placed in 8" loose layers and compacted to 90% of ASSHTO T-180, Method D. Moisture content of the suitable material shall be within the range of 2% below optimum moisture to 3% above optimum moisture.

**GENERAL NOTES**

The Pond shall function initially as a SEDIMENT BASIN. The Pond shall be constructed prior to any other construction work. Initial construction shall include all the work as shown except Pond invert seeding and the upstream 12" End Section.  
Permanent seeding is required for all the graded surfaces within the limits where permanent seeding is required. 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 pond are refurbished.  
Refurbishing of the pond shall be done after all construction is completed and grass is established within the pond drainage area. Refurbishing of the pond shall include the removal of all sediment; the restoration of the pond to the lines and grades as shown on the Plans; the replacement of all filter cloth and rip rap stone where necessary; installation of the metal end section; permanent reseeding of all the disturbed graded surfaces and the cleaning of the principal spillway and outfall ditch.  
After the Pond is completely refurbished the owner shall submit an "AS BUILT" drawing to the Howard County Soil Conservation District.  
Poly Filter-X cloth (CARTHAGE MILLS INCORPORATED) or equal, shall be placed under all rip-rap construction, full length and width of rip-rap.  
Stone shall be Maryland S.H.A. Class 1 medium Rip-Rap.  
Stone from onsite rock excavation may be substituted for the Maryland S.H.A. Class 1 Medium Rip-Rap. See Sheet 6 of 7 for proposed Sediment Control structures and Details.

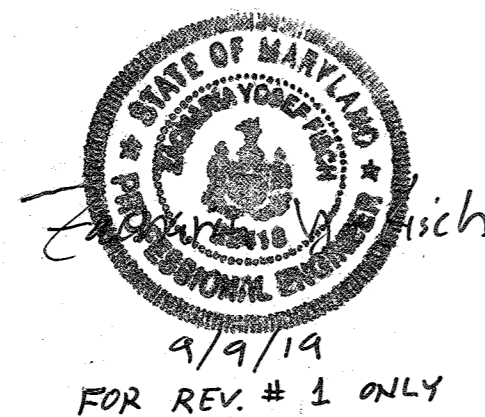
WHITMAN, REQUARDT & ASSOCIATES

ENGINEERS  
BALTIMORE, MARYLAND

*Kenneth A. McCord*  
KENNETH A. MCCORD P.E. NO. 1274

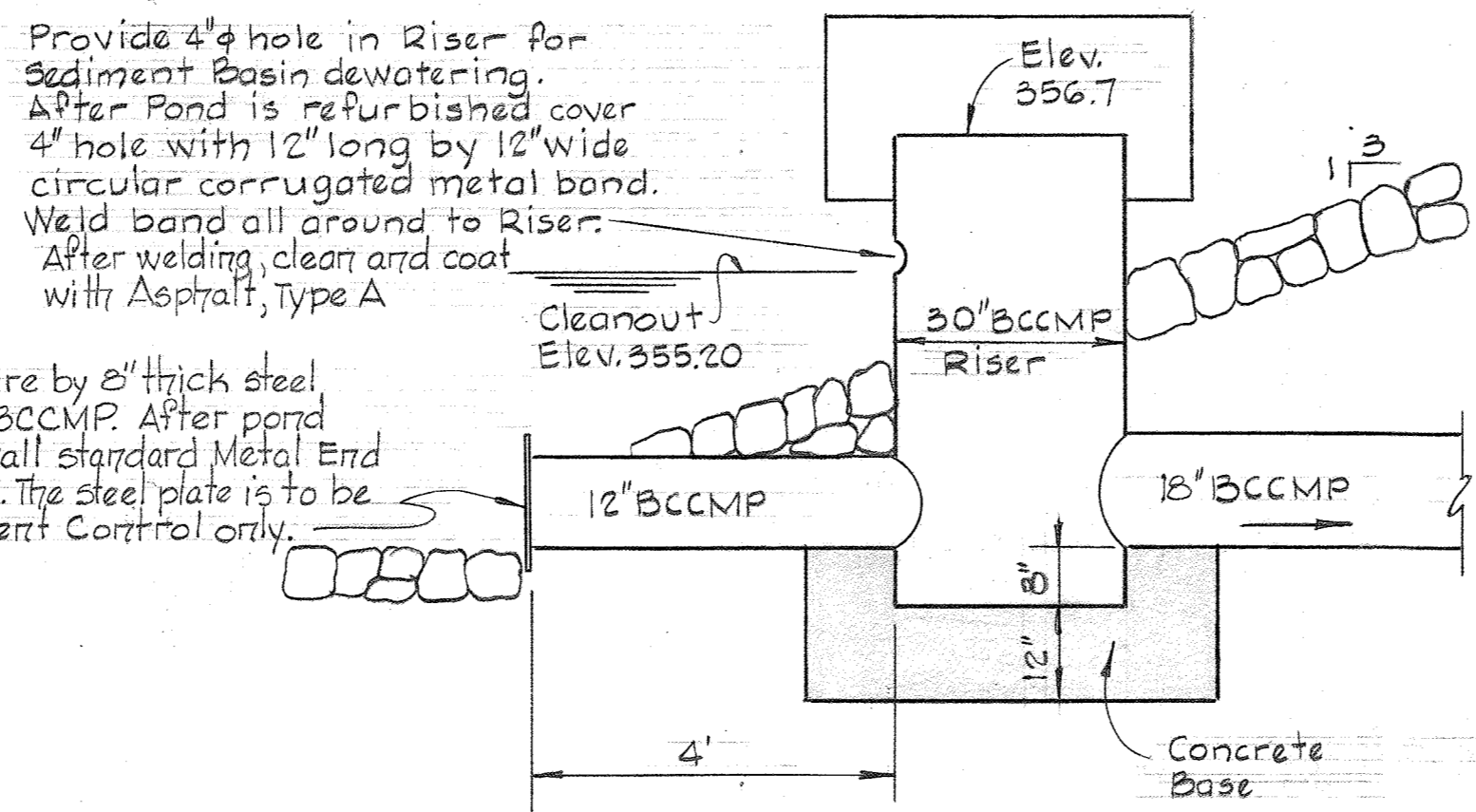
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
*Walter B. Smith* 3-1-79  
U.S. SOIL CONSERVATION SERVICE DATE:

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED *Robert R. Rich* 3/2/79  
HOWARD S.C.D. DATE  
PLAN NUMBER

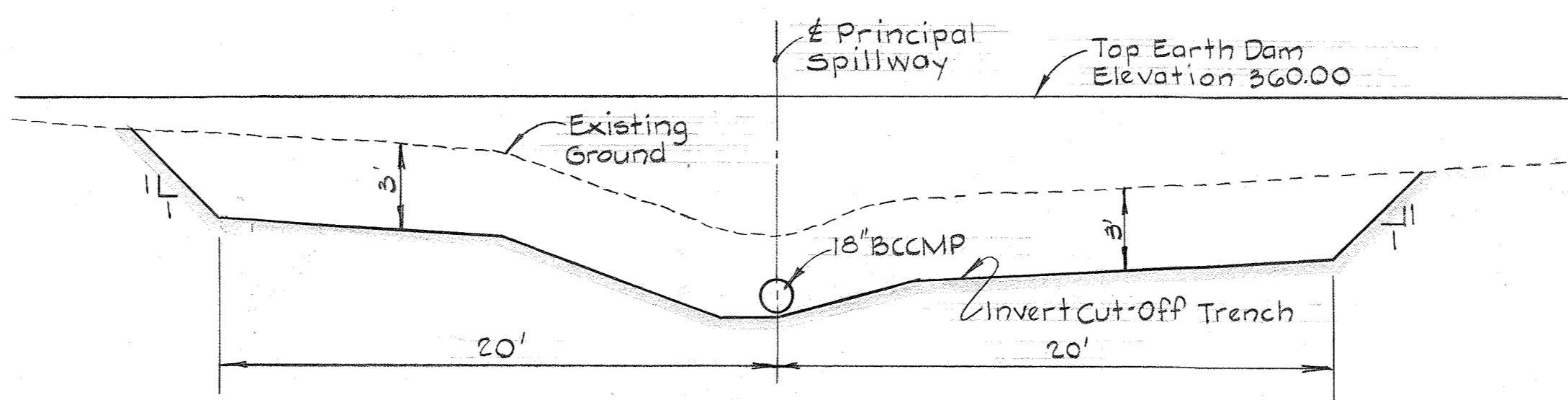


**CERTIFICATION BY THE DEVELOPER**  
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS 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 COMPLETING POND REFRUBISHING."  
*Padraic M. Kennedy* 1-2-79  
PADRAIC M. KENNEDY DATE

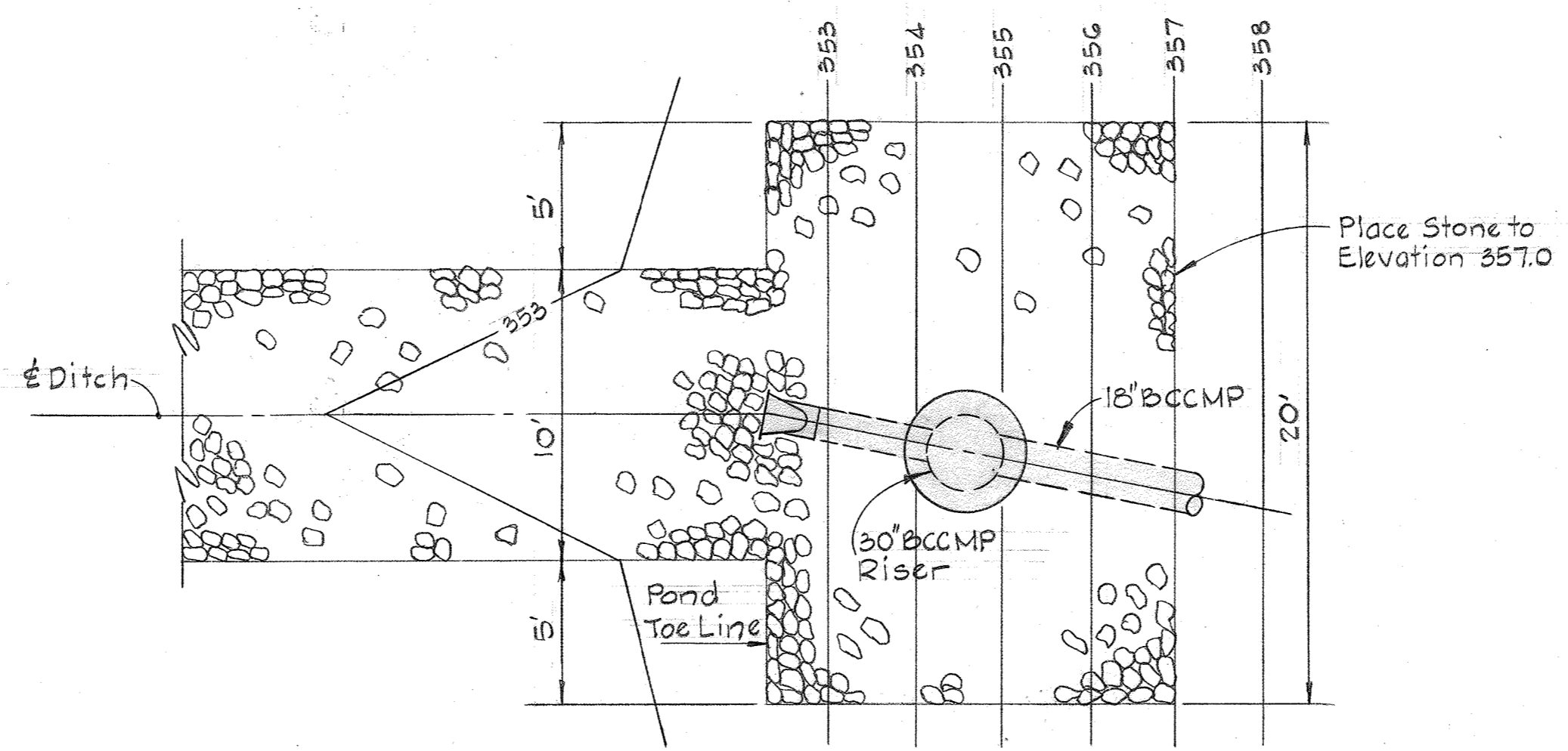
**CERTIFICATION BY THE ENGINEER**  
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION, AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION 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."  
*Kenneth A. McCord* 12-15-78  
KENNETH A. MCCORD, P.E. 1974 DATE



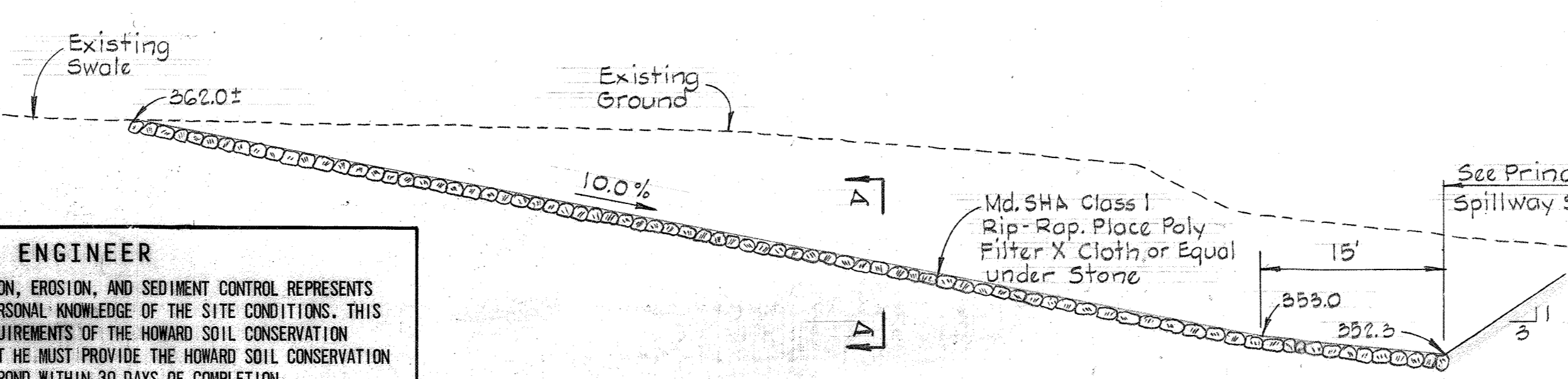
**RISER DETAIL**  
SEDIMENT BASIN DEWATERING  
Scale: 1/2" = 1'-0"



**PROFILE-EARTH DAM**  
Scale: 1" = 5'



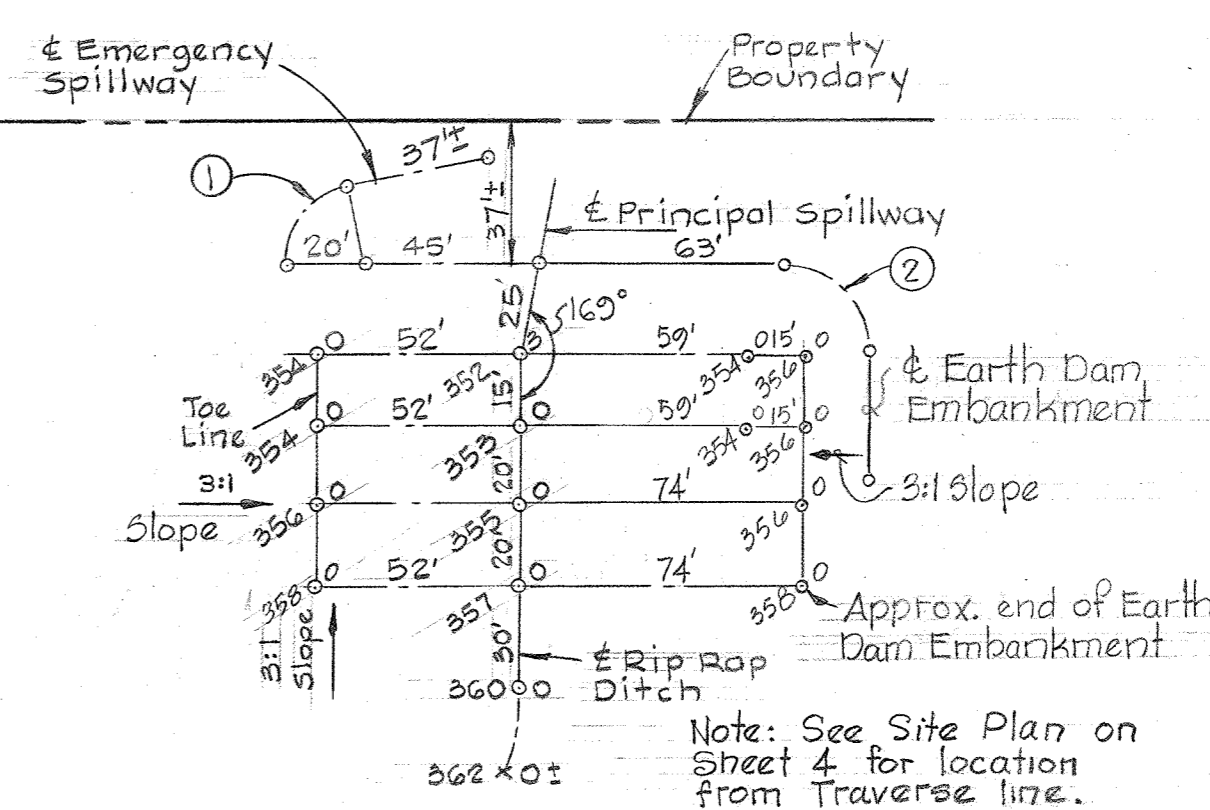
**PLAN - RIP RAP @ PRINCIPAL SPILLWAY**  
Scale: 1" = 5'



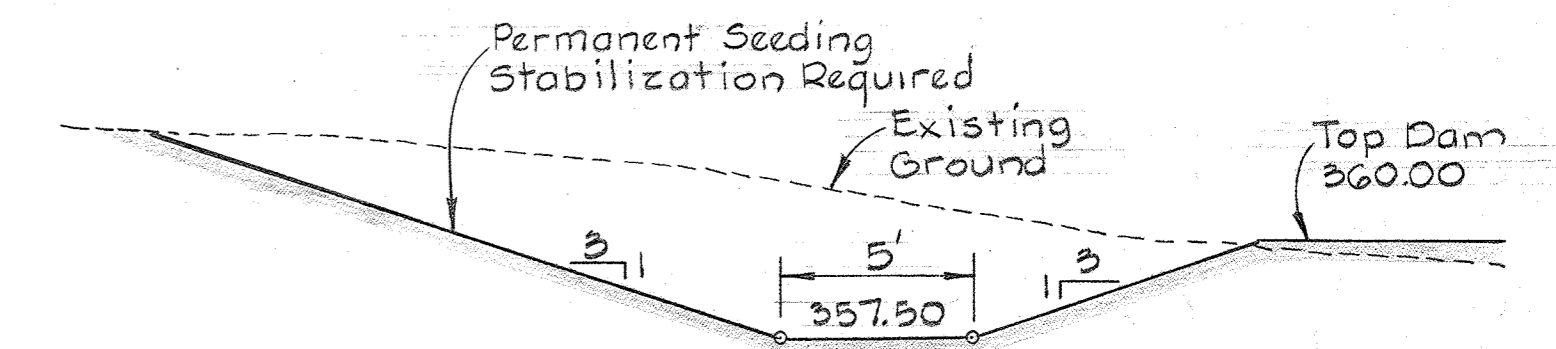
**PROFILE - STONE DITCH**  
Scale: Hor. 1" = 10' Ver. 1" = 5'

**CURVE DATA**

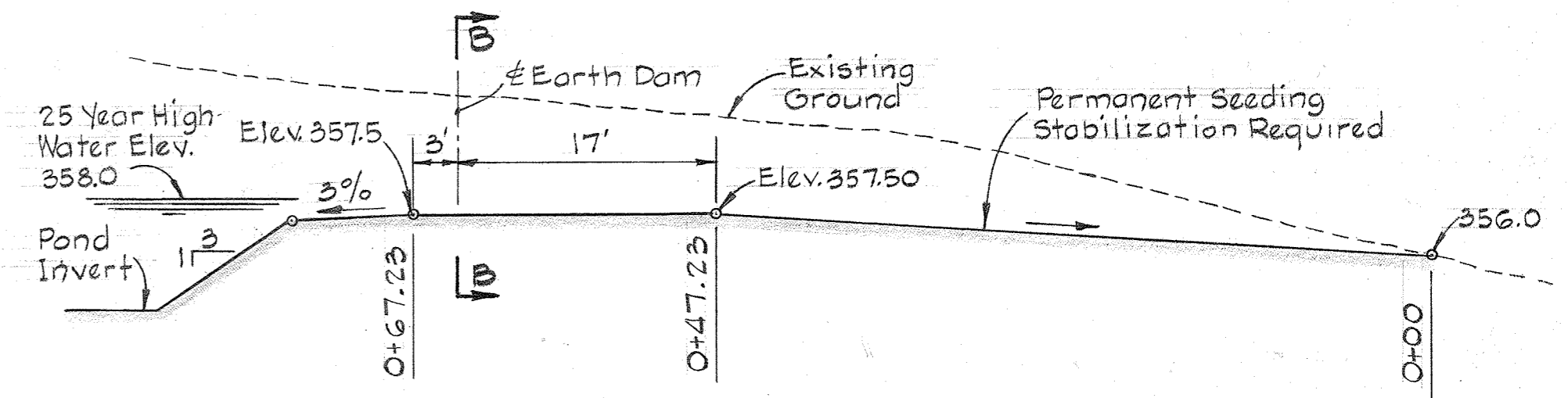
NO. 1	NO. 2
Δ = 78°	Δ = 90°
R = 20.0'	R = 22.0'
Arc = 27.23'	Arc = 34.56'
Tan = 16.20'	Tan = 22.00'



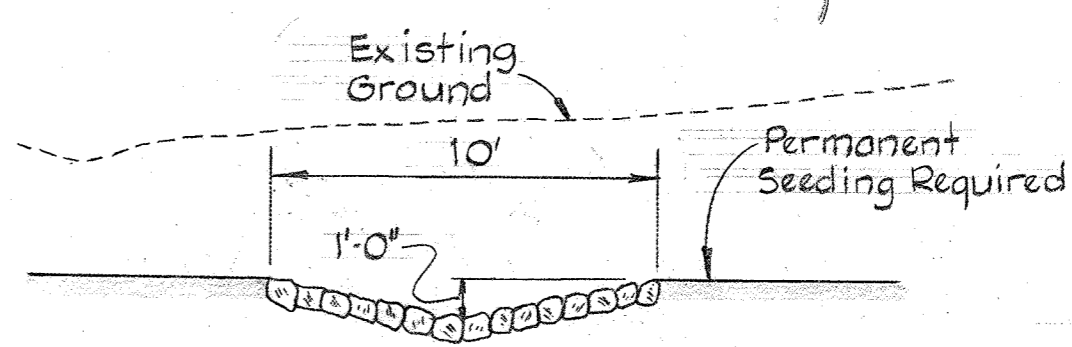
**POND STAKEOUT PLAN**  
Scale: 1" = 50'



**SECTION B-B-EMERGENCY SPILLWAY**  
Scale: 1" = 5'-0"



**PROFILE - EMERGENCY SPILLWAY**  
Scale: Hor. 1" = 10' Ver. 1" = 5'



**SECTION A-A**

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Dean Boyd* 3-5-79  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Thomas L. David* 3-27-79  
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William M. Schuman* 3-20-79  
CHIEF DIVISION OF LAND DEVELOPMENT DATE

*John F. Nunn* 3-23-79  
DIRECTOR DATE

*W. O. Gilbert* 3-22-79  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 2-14-79  
*JUM*

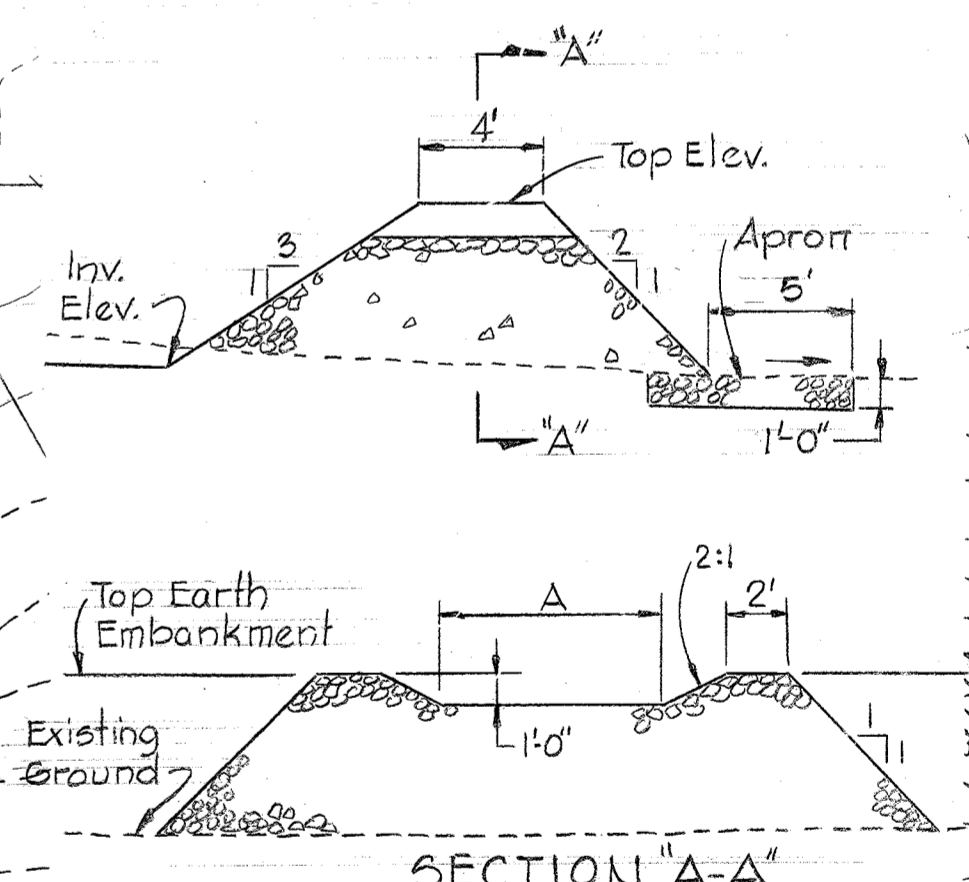
NO.	ADJUSTED TOTAL SHEETS IN TITLE BLOCK.	9-5-19
	REVISION	DATE

**COLUMBIA SITE PLAN**  
FOR  
VILLAGE OF KINGS CONTRIVANCE  
SECTION 2 AREA 2  
A PORTION OF OPEN SPACE LOT NO. 1  
STORM WATER MANAGEMENT POND  
SHEET 5 OF X8  
ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
DATE: SCALE: AS SHOWN

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 3-27-79  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: *[Signature]* DATE: 3-27-79  
 CHIEF DIVISION OF LAND DEVELOPMENT  
 APPROVED FOR PUBLIC WATER, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 3-23-79  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 3-22-79

**LEGEND**  
 --- Existing Contours (2' interval)  
 - - - Proposed Contours (1' interval)  
 --- Proposed Spot Elevation  
 --- Existing Tree Line  
 --- Percolation Test 8/28/78  
 --- Control Traverse  
 --- Wood Fence  
 --- Wire Fence

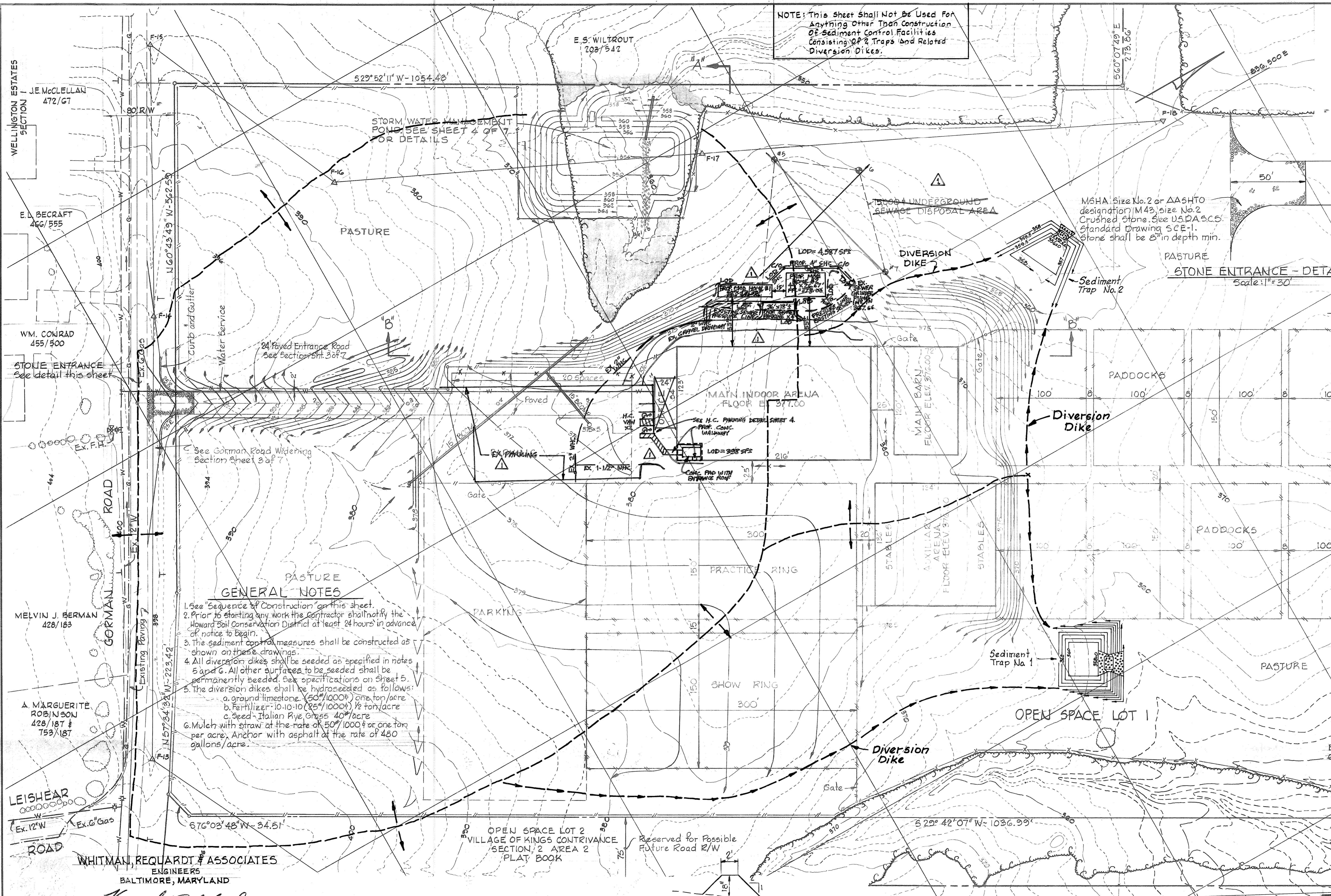
- SEQUENCE OF CONSTRUCTION**
1. Clear woods, grub and strip topsoil from storm water management area.
  2. Construct storm water management pond to serve as a sediment basin initially.
  3. Construct sediment control traps and diversion dikes.
  4. Strip topsoil, grade remainder of site and install storm drains.
  5. Construct entrance road base.
  6. Demolish Indoor Arena Building at existing Equestrian Center, transport to site and re-construct.
  7. Construct Main Barn, Office and Auxiliary Arena.
  8. Install water service and septic system.
  9. Seed disturbed areas as required per permanent seeding note on sheet 5.
  10. Install fencing for pasture, paddocks and outdoor show rings.
  11. Place surface course on entrance road.
  12. Remove sediment control traps and diversion dikes, clean and refurbish storm water management pond when grass has been established on site.



No Scale

TRAP	Drainage Area	Volume Req.	Volume Available	A	Top Elev.	Inv. Elev.
NO.1	2.4 ac	160cy	164 cy	14.5'	363.0	358.0
NO.2	1.6 ac	107cy	118 cy	9.6'	359.5	350.0

NOTE: This sheet shall not be used for anything other than construction of sediment control facilities consisting of traps and related diversion dikes.



- GENERAL NOTES**
1. See "Sequence of Construction" on this sheet.
  2. Prior to starting any work the Contractor shall notify the Howard Soil Conservation District at least 24 hours in advance of notice to begin.
  3. The sediment control measures shall be constructed as shown on these drawings.
  4. All diversion dikes shall be seeded as specified in notes 5 and 6. All other surfaces to be seeded shall be permanently seeded. See specifications on sheet 5.
  5. The diversion dikes shall be hydroseeded as follows:  
 a. ground limestone (50%/1000#) one ton/acre  
 b. Fertilizer-10-10-10 (25%/1000#) 1/2 ton/acre  
 c. Seed- Italian Rye Grass 40#/acre
  6. Mulch with straw at the rate of 50#/1000# or one ton per acre. Anchor with asphalt at the rate of 480 gallons/acre.

**CERTIFICATION BY THE DEVELOPER**  
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR 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."  
*[Signature]*  
 PADRAIC M. KENNEDY  
 DATE: 3-2-79

**CERTIFICATION BY THE ENGINEER**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*[Signature]*  
 KENNETH A. MCCORD, P.E. 1974  
 DATE: 12-22-78

REVIEWED FOR: HOWARD S.C.D.  
 NAME  
 AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* DATE: 3/1-79  
 SIGNATURE  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *[Signature]* DATE: 3/2/79  
 HOWARD S.C.D.



DEVELOPER  
 COLUMBIA ASSOCIATION  
 5829 BANNEKER ROAD  
 COLUMBIA, MD. 21044

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 2-14-79  
 OWNER  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 10275 LITTLE PATUXENT PKWY.  
 COLUMBIA, MD. 21044

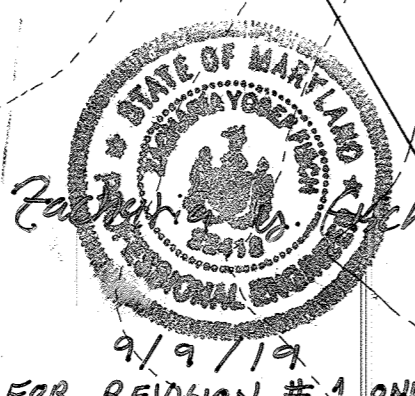
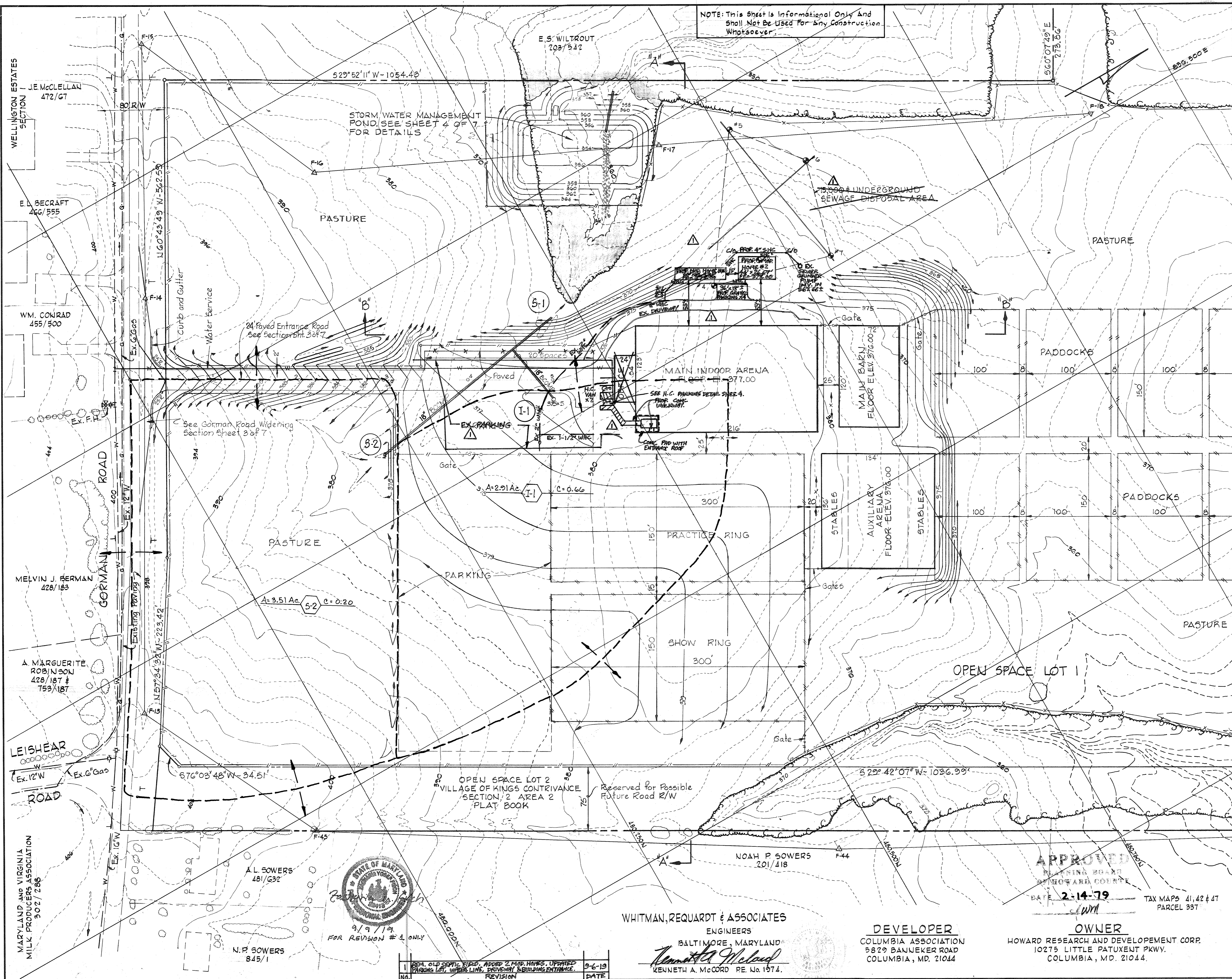
**COLUMBIA SITE PLAN**  
 FOR  
**VILLAGE OF KINGS CONTRIVANCE**  
 SECTION 2 AREA 2  
 A PORTION OF OPEN SPACE LOT NO. 1  
**SEDIMENT CONTROL**  
 SHEET 6 OF 8  
 ELECTION DISTRICT NO. G, HOWARD COUNTY, MARYLAND  
 DATE: 1/20/79 SDF-79-86c

NOTE: This Sheet is Informational Only And Shall Not Be Used For Any Construction Whatsoever.

APPROVED FOR PUBLIC WATER AND PRIVATE 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, STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR  
 CHIEF, BUREAU OF ENGINEERING

**LEGEND**  
 - 370- Existing Contours (2' Interval)  
 - 370- Proposed Contours (1' Interval)  
 - 370.0 Proposed Spot Elevation  
 - Existing Tree Line  
 - Percolation Test  
 - Control Traverse  
 - Wood Fence  
 - Wire Fence

REMAINDER OF SITE TO BE RETAINED IN ITS NATURAL CONDITION



WHITMAN, REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND  
 Kenneth A. McCord  
 KENNETH A. McCORD RE. No. 1974.

DEVELOPER  
 COLUMBIA ASSOCIATION  
 5829 BANNER ROAD  
 COLUMBIA, MD. 21044

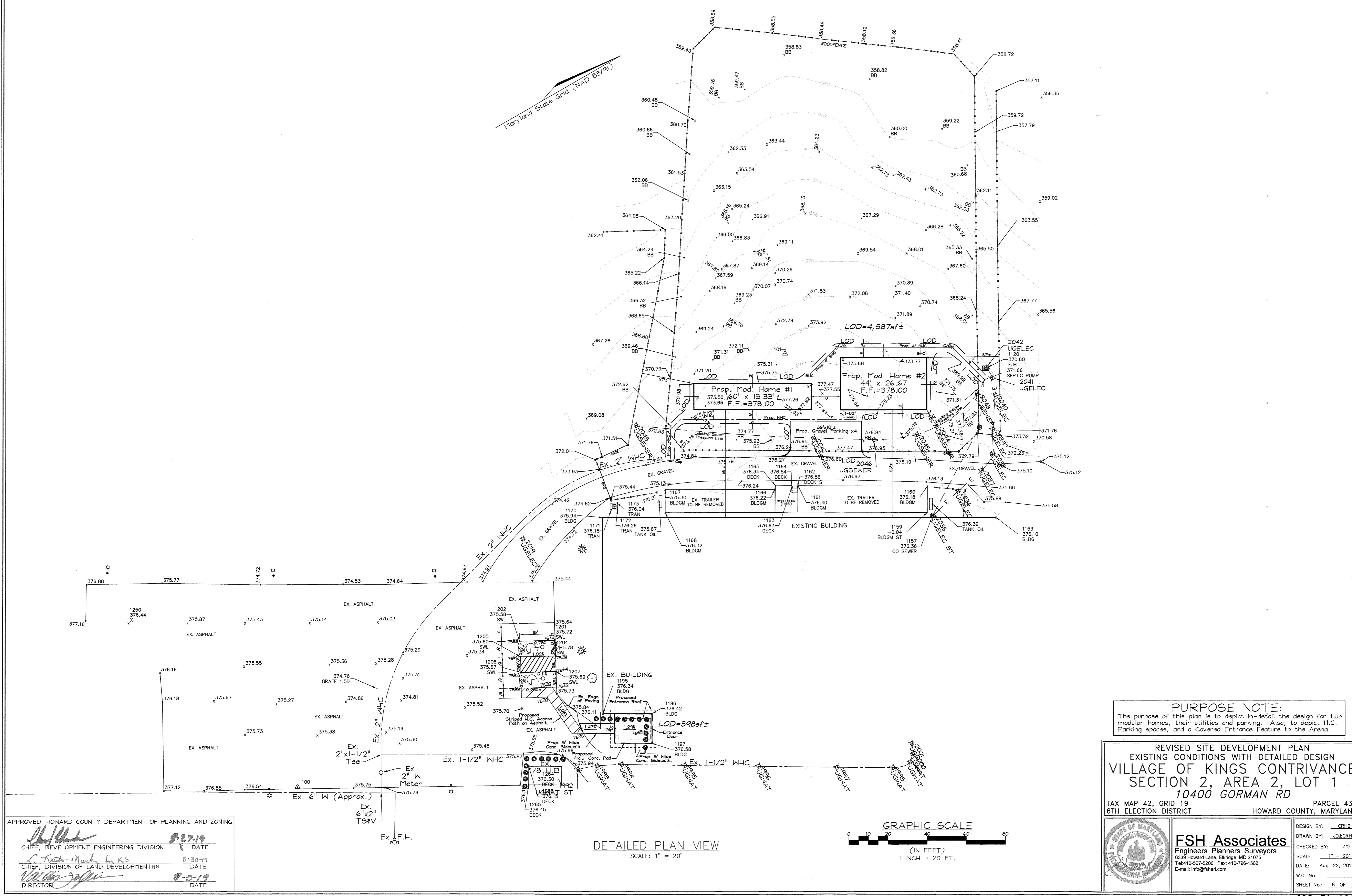
OWNER  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 10275 LITTLE PATUXENT PKWY.  
 COLUMBIA, MD. 21044.

APPROVED  
 PLANNING BOARD  
 HOWARD COUNTY  
 DATE 2-14-79  
 TAX MAPS 41, 42 & 47  
 PARCEL 337

**COLUMBIA**  
 SITE PLAN  
 FOR  
 VILLAGE OF KINGS CONTRIVANCE  
 SECTION 2 AREA 2  
 A PORTION OF OPEN SPACE LOT NO. 1  
 DRAINAGE AREA MAP  
 SHEET 7 OF 8  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 DATE: SCALE: 1"=50'

NO.	REVISION	DATE
1	REV. OLD SEWER POND. ADDED 2 MOR. HOURS. UPDATED PARKING LOT, UTILITY LINE, EXISTING & BUILDING ENTRANCE.	9-6-19

Maryland State Grid (NAD 83/91)



LOD = 4,587sf±

LOD = 398sf±

**PURPOSE NOTE:**  
 The purpose of this plan is to depict in-detail the design for two modular homes, their utilities and parking. Also, to depict H.C. Parking spaces, and a Covered Entrance Feature to the Arena.

REVISED SITE DEVELOPMENT PLAN  
 EXISTING CONDITIONS WITH DETAILED DESIGN  
**VILLAGE OF KINGS CONTRIVANCE**  
 SECTION 2, AREA 2, LOT 1  
 10400 GORMAN RD

TAX MAP 42, GRID 19 PARCEL 436  
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

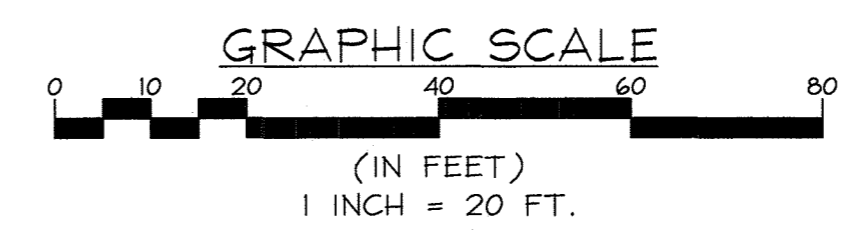
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 8-27-19  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 8-30-19  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 8-3-19  
 DIRECTOR DATE

DETAILED PLAN VIEW  
 SCALE: 1" = 20'



**FSH Associates**  
 Engineers Planners Surveyors  
 6339 Howard Lane, Elkridge, MD 21075  
 Tel: 410-587-5200 Fax: 410-798-1562  
 E-mail: info@fshet.com

DESIGN BY: CRH2  
 DRAWN BY: JO&CRH2  
 CHECKED BY: ZYF  
 SCALE: 1" = 20'  
 DATE: Aug. 22, 2019  
 W.O. No.:  
 SHEET No.: 8 OF 8