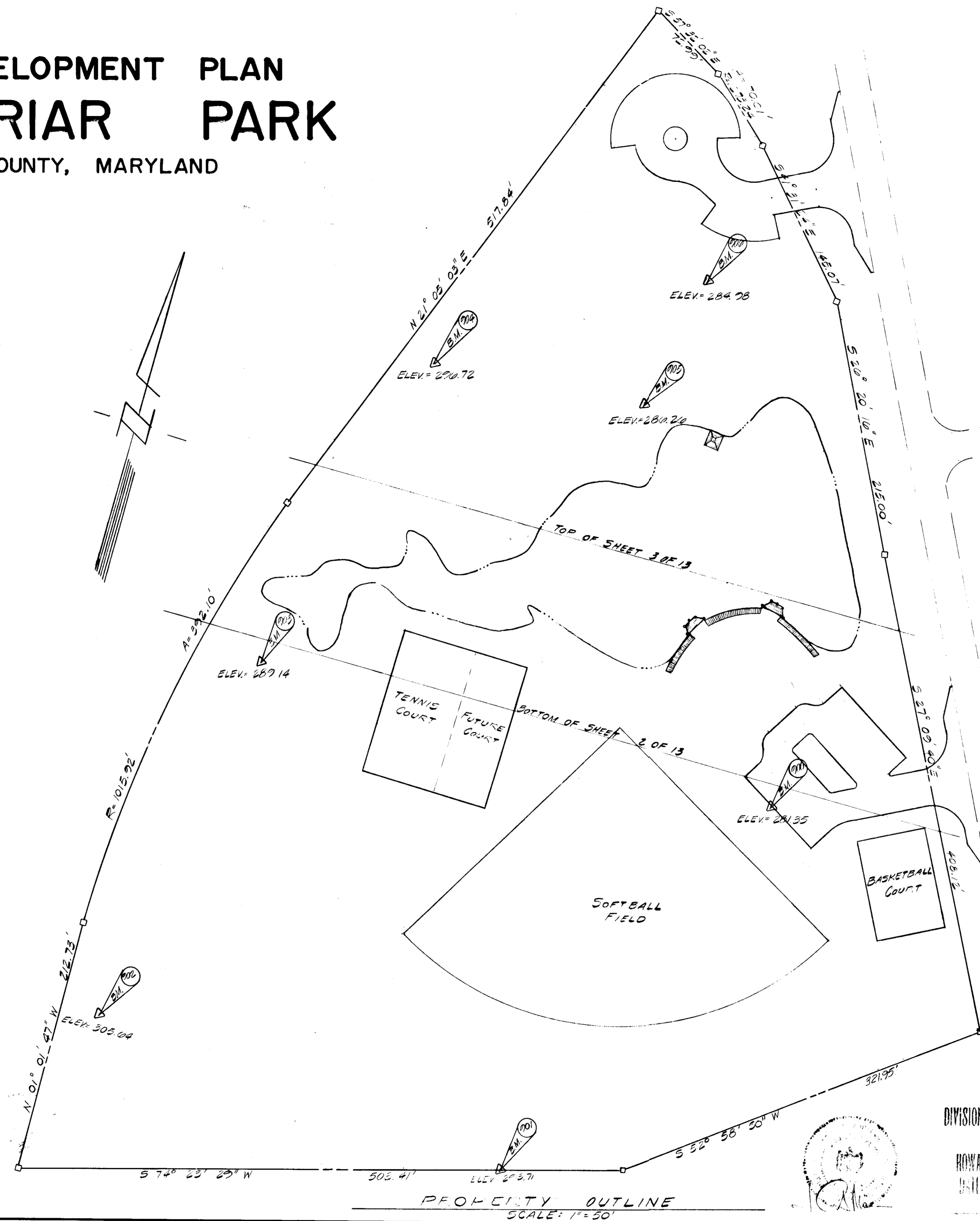
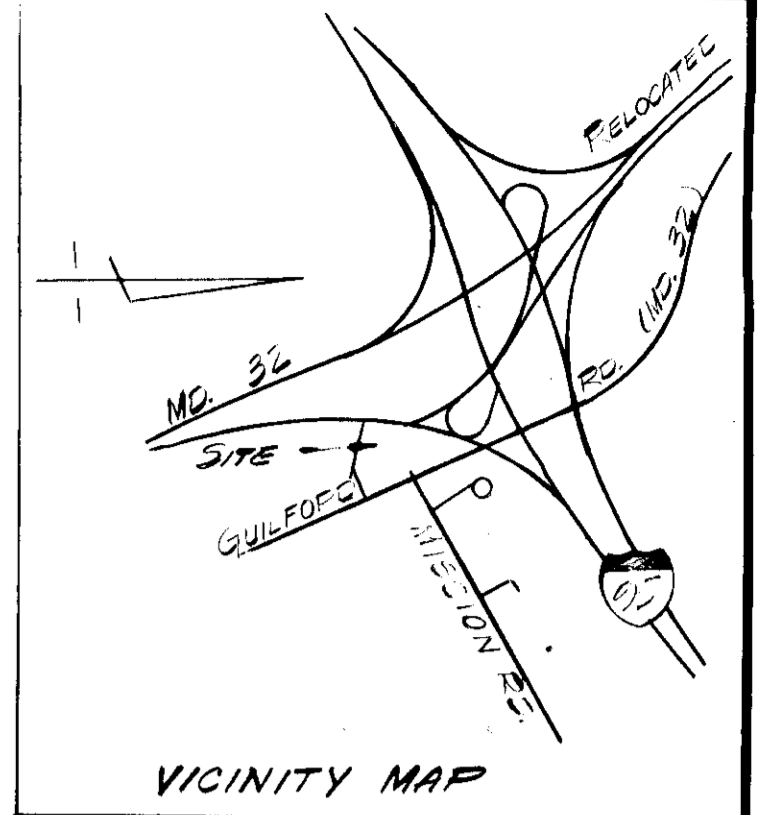


SITE DEVELOPMENT PLAN GREENBRIAR PARK

HOWARD COUNTY, MARYLAND



INDEX OF SHEETS

1. COVER SHEET
2. GRADING PLAN
3. GRADING PLAN
4. DRAINAGE AREA MAP
5. SOIL EROSION AND SEDIMENT CONTROL
6. SOIL EROSION AND SEDIMENT CONTROL
7. POND
8. TENNIS, SOFTBALL DETAILS
9. BASKETBALL AND PIER DETAILS
10. PIER AND WALK DETAILS
11. LANDSCAPING PLAN AND DETAILS
12. LANDSCAPING PLAN AND DETAILS
13. LANDSCAPING PLAN AND DETAILS

SITE ANALYSIS

ZONING	P= 20
TOTAL AREA OF SITE	10.89 AC.
TOTAL AREA TO BE DISTURBED	0.93 AC.
TOTAL AREA TO BE REVEGETATED	4.52 AC.
TOTAL AREA TO BE PAVED	1.21 AC.
TOTAL POND AREA	1.20 AC.
TOTAL PARKING REQUIRED	SEE SECTION 123, B, 2.D, (15) OF THE 1977 ZONING REGULATIONS
TOTAL PARKING PROVIDED	32 SPACES
HANDICAPPED PARKING SPACES (12'x20')	2 SPACES
TYPICAL PARKING SPACE (10'x20')	30 SPACES
THERE WILL BE NO EXTERIOR LIGHTING	

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT

Joseph P. Taylor COUNTY HEALTH OFFICER DATE 2-1-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Deanna L. Hamilton PLANNING DIRECTOR DATE 3-9-78
William M. Wacker CHIEF DIVISION OF LAND DEVELOPMENT DATE 5-9-78

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

W. J. P. P. DIRECTOR DATE 2-27-78
W. J. P. CHIEF BUREAU OF ENGINEERING DATE 2-29-78

APPROVED DIVISION OF LAND DEVELOPMENT HOWARD COUNTY, MARYLAND DATE 1-27-78

land plan associates
suite 719 american city building
columbia, maryland 21044 tel.(301)997-0810

MACRIS-FOWLER ASSOCIATES
ENGINEERS, SURVEYORS, PLANNERS
27 W. JEFFERSON ST. ROCKVILLE, MD 20850. TEL.(301)340-8705

DEPARTMENT OF RECREATION & PARKS
HOWARD COUNTY, MARYLAND
DATE 5-27-78 DIRECTOR

CAPITAL PROJECT N-4-3038
AGREEMENT NO. 77-13
SITE DEVELOPMENT PLAN

GREENBRIAR PARK
TAX MAP 42 LIBER 768 FOLIO 602
PARCEL A ELECTION DISTRICT NO. 6

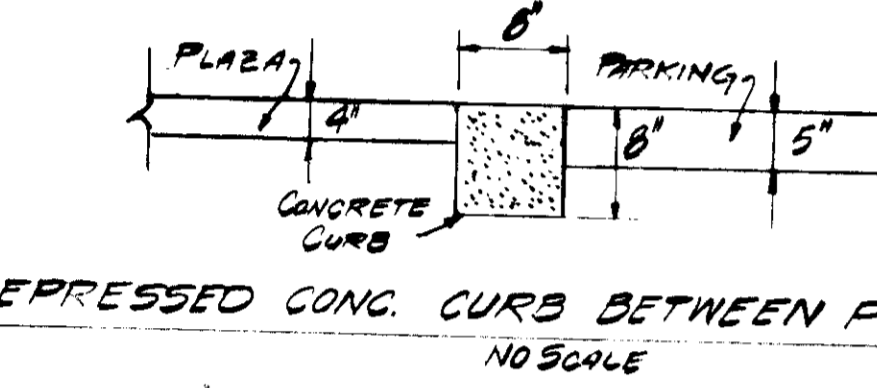
DRAWING NO. 1 OF 13 SCALE AS SHOWN

BITUMINOUS CONCRETE SURFACE	BAND C-3	1"
BITUMINOUS CONCRETE BASE	BAND C-2 OR G-3	3"

SECTION OF PATH PAVING
NO SCALE
HOWARD Co. STD. DNG. D-13 PAGE 08

BITUMINOUS CONG. SURFACE	BAND C-3	1"
BITUMINOUS CONG. BASE	BAND C-2 OR G-3	4"

PAVING SECTION
NO SCALE
HOWARD Co. STD. DNG. D-13 PAGE 08



NOTE:
EXACT BITUMINOUS WALK LOCATIONS SHALL BE ADJUSTED IN THE FIELD BY THE OWNER OR HIS DESIGNEE.

OWNER / DEVELOPER
DEPT. OF RECREATION & PARKS
HOWARD COUNTY RT. 108
GORMAN PLAZA BUILDING
COLUMBIA, MARYLAND, 21045

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT

Mark Brown
COUNTY HEALTH DEPT. CHIEF
DATE: 3-1-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas A. Hargis
PLANNING DIRECTOR
DATE: 3-9-78
William W. Moseman
CHIEF DIVISION OF LAND DEVELOPMENT
DATE: 3-9-78

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

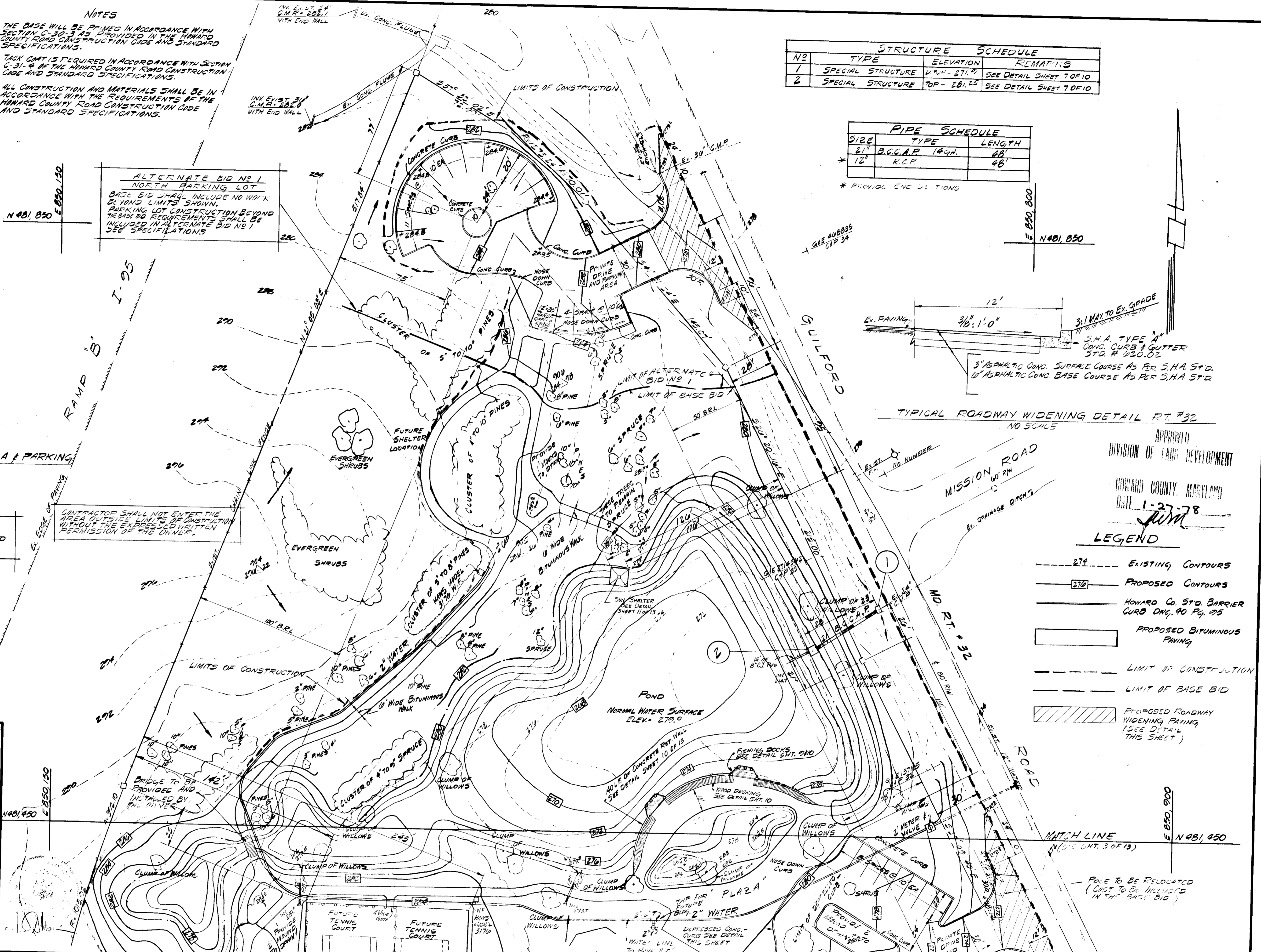
M. Reed
DIRECTOR
DATE: 2-27-78
W. O. Lambert
CHIEF BUREAU OF ENGINEERING
DATE: 2-24-78

land plan associates
suite 719 american city building
columbia, maryland 21044 tel.(301)997-0810

NOTES
1. THE BASE WILL BE FINISHED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

ALTERNATE BID NO 1 NORTH PARKING LOT
BASE BID SHALL INCLUDE NO WORK BEYOND LIMITS SHOWN. PARKING LOT CONSTRUCTION BEYOND THE BASE BID REQUIREMENTS SHALL BE INCLUDED IN ALTERNATE BID NO 1 SEE SPECIFICATIONS

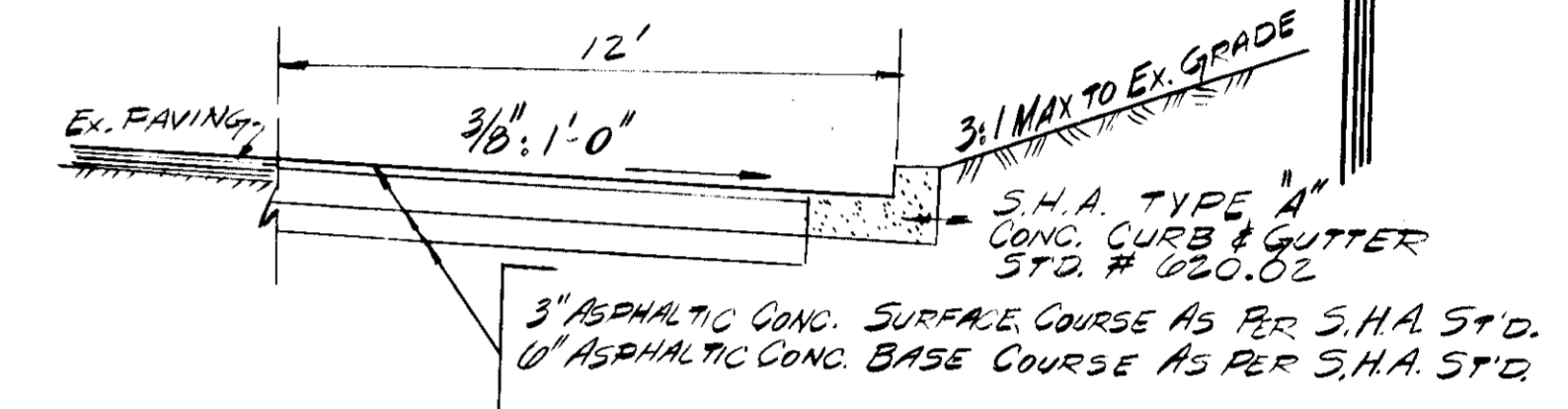
CONTRACTOR SHALL NOT ENTER THE AREA OUTSIDE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER.



STRUCTURE SCHEDULE			
NO	TYPE	ELEVATION	REMARKS
1	SPECIAL STRUCTURE	TOP - 271.79	SEE DETAIL SHEET 7 OF 10
2	SPECIAL STRUCTURE	TOP - 281.22	SEE DETAIL SHEET 7 OF 10

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
21"	B.C.C.P.	14'-0"
12"	R.C.P.	48'

* PROVIDE END CONNECTIONS

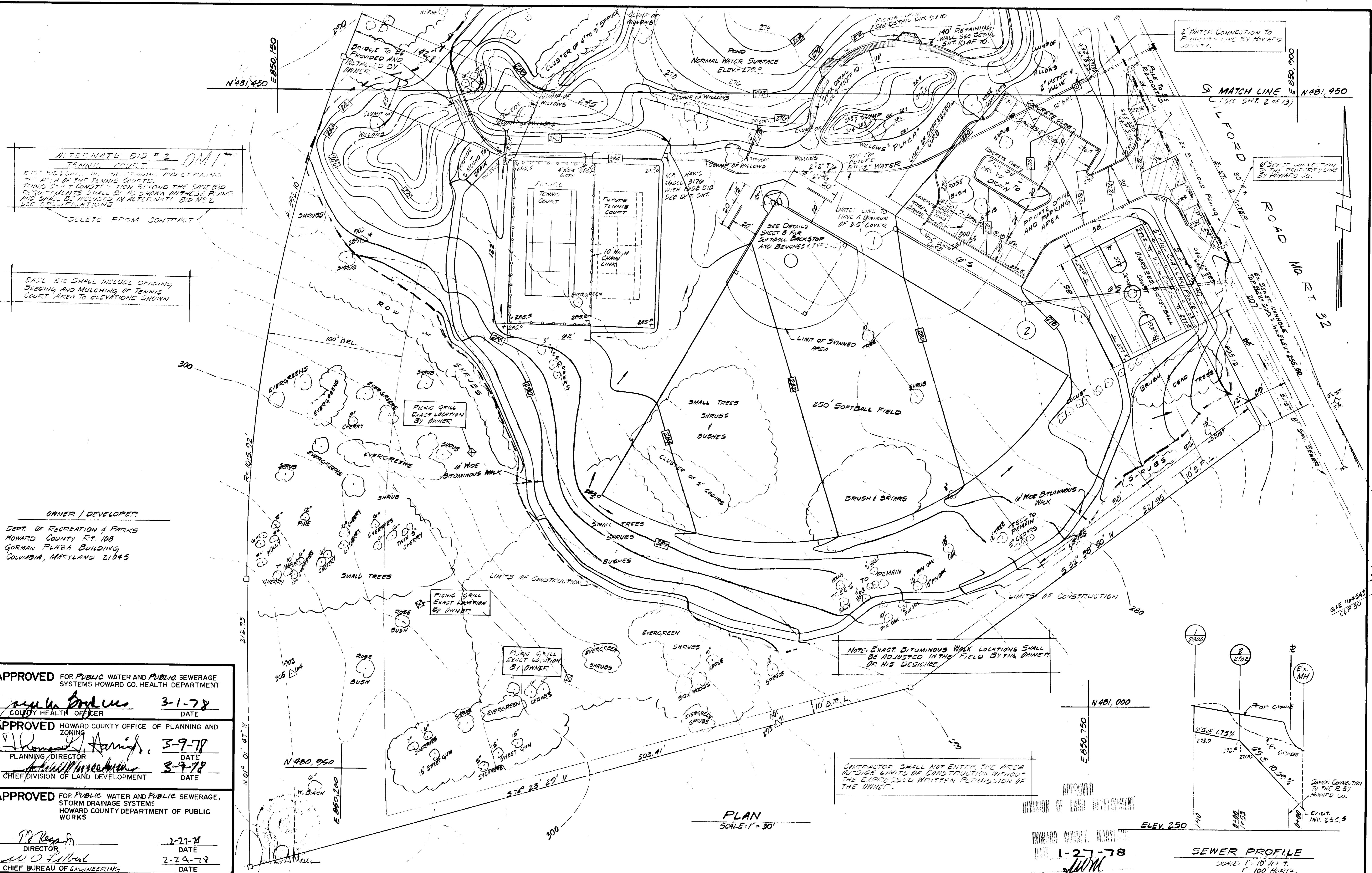


TYPICAL ROADWAY WIDENING DETAIL RT. #32
NO SCALE

- LEGEND**
- 274 --- EXISTING CONTOURS
 - 270 --- PROPOSED CONTOURS
 - HOWARD Co. STD. BARRIER CURB DNG. 40 Pg. 05
 - PROPOSED BITUMINOUS PAVING
 - LIMIT OF CONSTRUCTION
 - LIMIT OF BASE BID
 - PROPOSED ROADWAY WIDENING PAVING (SEE DETAIL THIS SHEET)

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 1-27-78
JWM

MACRIS FOWLER ASSOCIATES ENGINEERS, SURVEYORS, PLANNERS 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL. (301) 340-8705	DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND SEPT. 14, 1977 DATE	CAPITAL PROJECT N-4-3038 AGREEMENT NO. 77-13	SITE DEVELOPMENT PLAN	GREENBRIAR PARK TAX MAP 42 LIBER 768 FOLIO 602 PARCEL 'A' ELECTION DISTRICT NO. 6	DRAWING NO. 2 OF 13 SCALE 1" = 30'
---	--	--	------------------------------	--	---------------------------------------



ALTERNATE BID #2 OMIT
 BRIDGE TO BE PROVIDED AND INSTALLED BY OWNER
 BRIDGE TO BE PROVIDED AND INSTALLED BY OWNER

BID #2 SHALL INCLUDE GRADING, SEEDING, AND MULCHING OF TENNIS COURT AREA TO ELEVATIONS SHOWN

OWNER / DEVELOPER
 DEPT. OF RECREATION & PARKS
 HOWARD COUNTY RT. 108
 GORMAN PLAZA BUILDING
 COLUMBIA, MARYLAND 21045

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE: 3-1-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF DIVISION OF LAND DEVELOPMENT
 DATE: 3-9-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 CHIEF BUREAU OF ENGINEERING
 DATE: 2-24-78

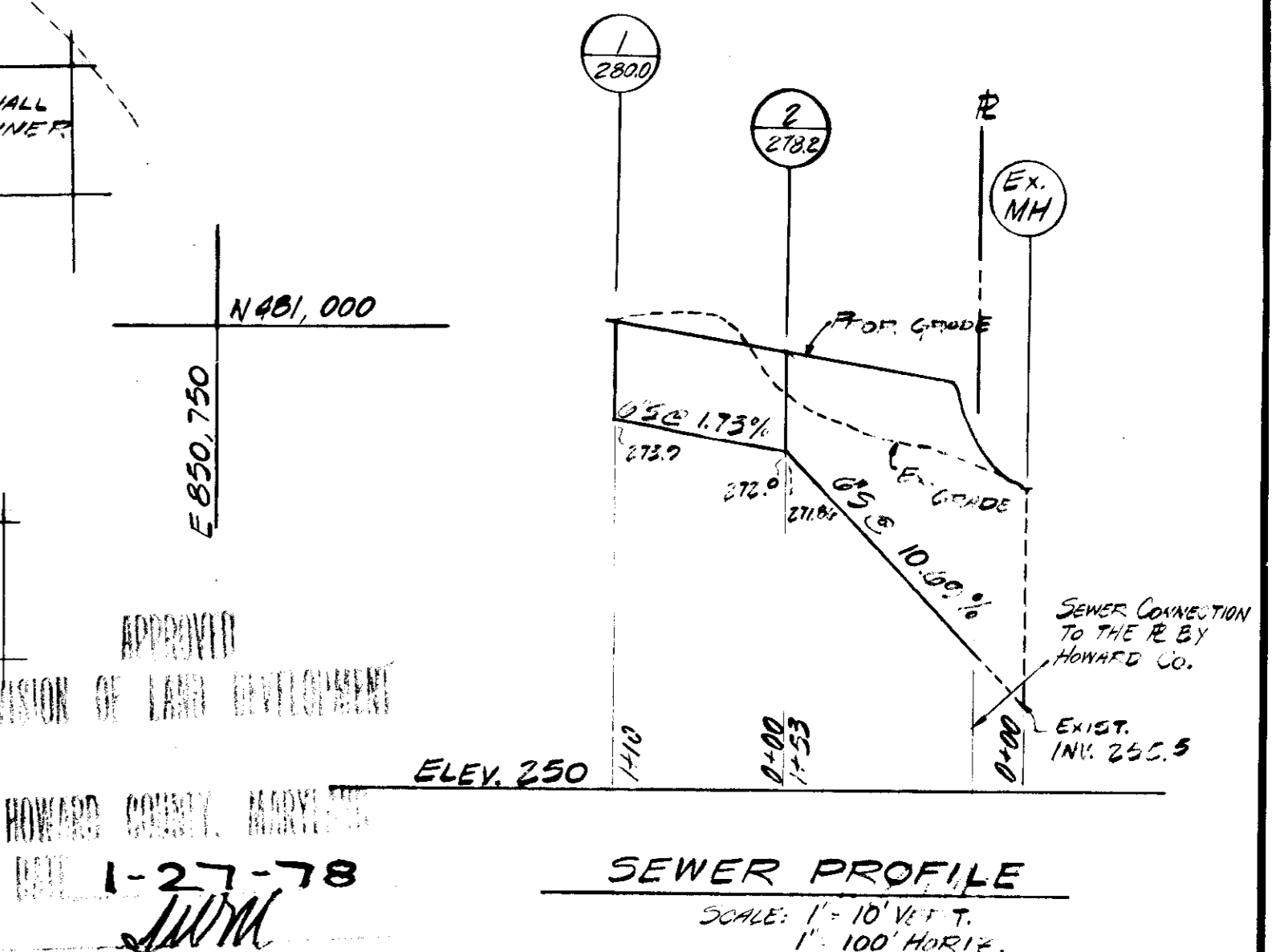
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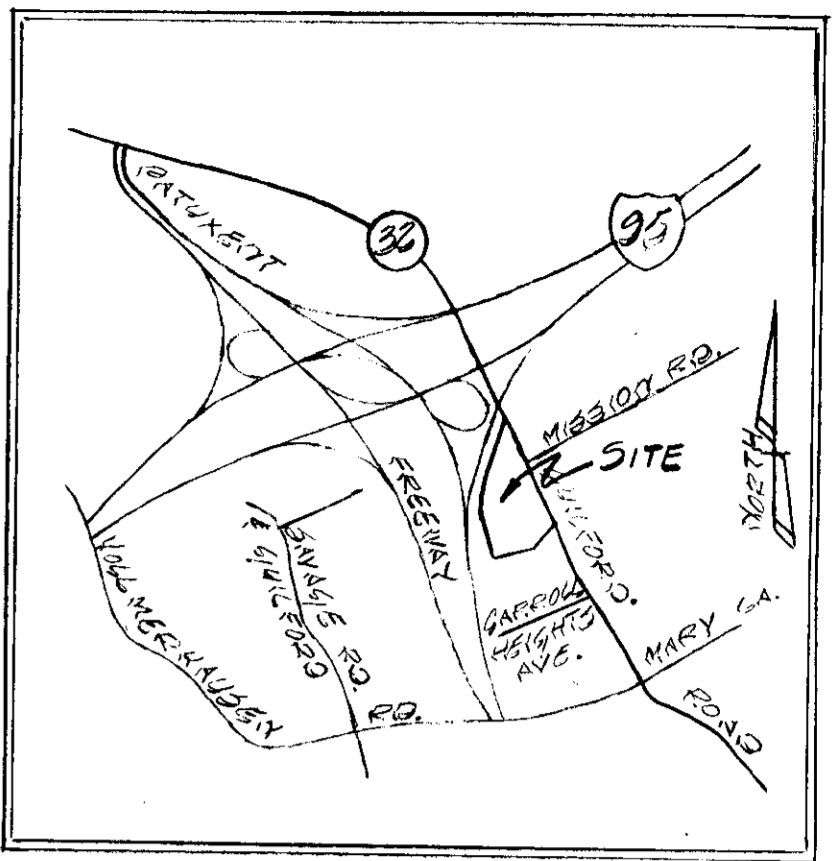
MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL.(301)340-8705

DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 SEPT 10, 1977
 DATE

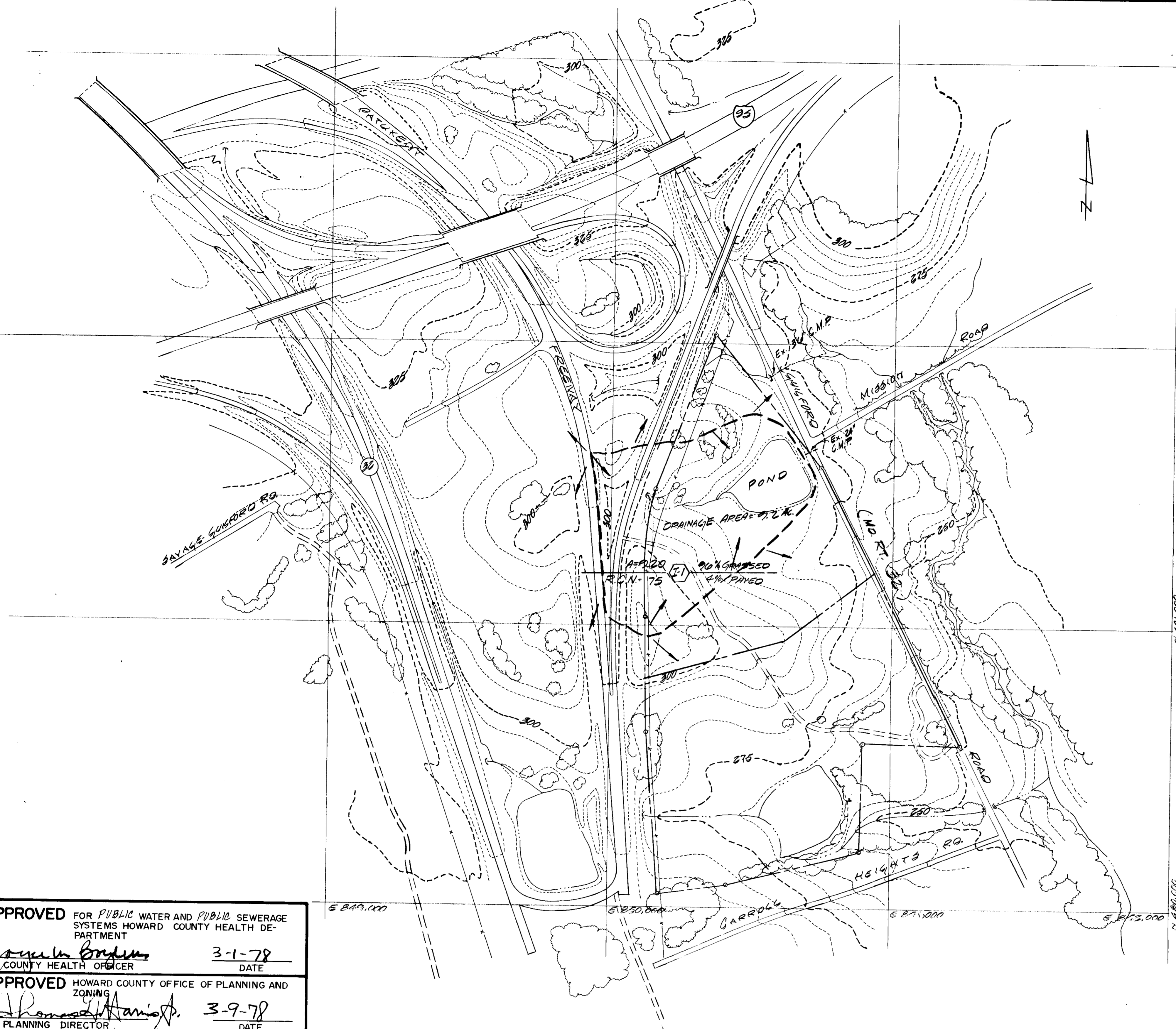
CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13
 SITE DEVELOPMENT
 PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL 'A' ELECTION DISTRICT NO 6
 DRAWING NO. 3 OF 13
 SCALE 1" = 30'





LOCATION MAP
SCALE: 1" = 2000'



DRAINAGE AREA MAP
SCALE: 1" = 200'
CONTOUR INTERVAL 5 FEET

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
[Signature] COUNTY HEALTH OFFICER
 DATE 3-1-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] PLANNING DIRECTOR
 DATE 3-9-78
[Signature] CHIEF DIVISION OF LAND DEVELOPMENT
 DATE 3-9-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DIRECTOR
 DATE 2-27-78
[Signature] CHIEF BUREAU OF ENGINEERING
 DATE 2-24-78

APPROVED
 DIVISION OF PUBLIC WORKS
 DATE 1-27-78
[Signature]

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel (301) 997-0810

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 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850, TEL. (301) 340-8705

DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 DATE 9/27/77
[Signature] DIRECTOR

CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT
 PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL A ELECTION DISTRICT NO. 6

DRAWING	SCALE
No. 4	1" = 200'
OF 13	

ENGINEER'S CERTIFICATION

"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 OF ENGINEER *[Signature]*

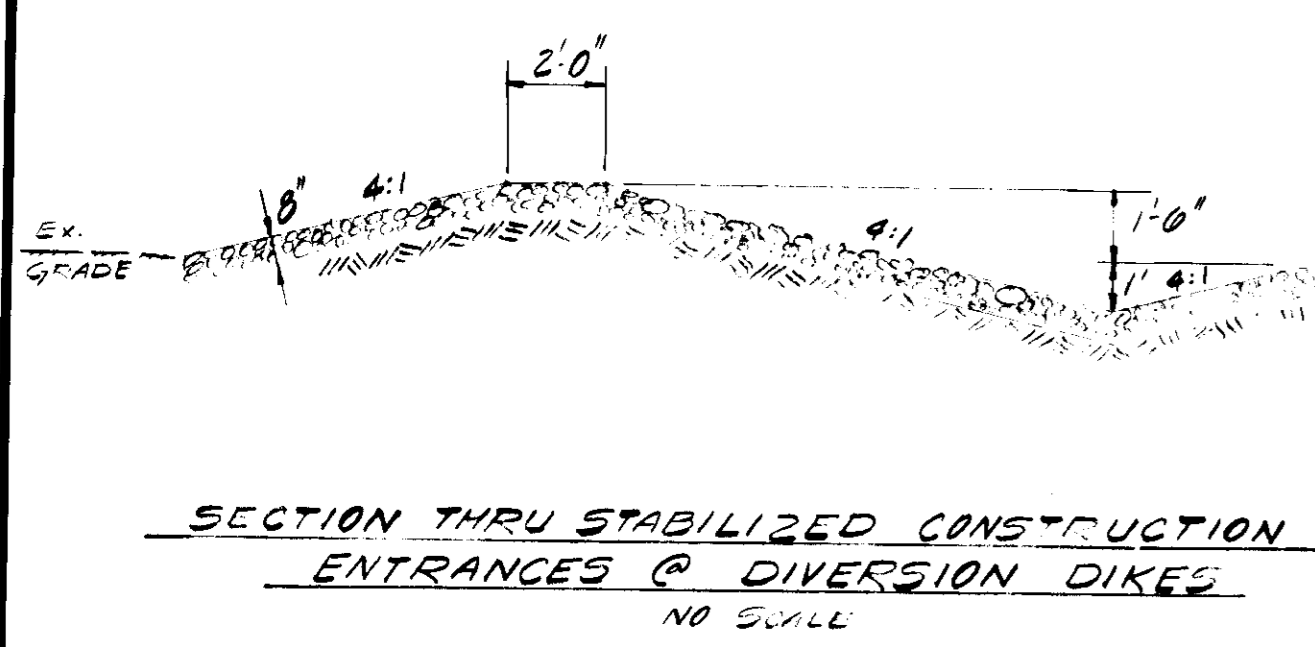
DATE 8-23-77

DEVELOPER'S CERTIFICATION

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY 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.

SIGNATURE OF DEVELOPER *[Signature]*

DATE SEPT 16, 1977



REVIEWED FOR HOWARD S.C.D. NAME
 AND MEETS TECHNICAL REQUIREMENTS
[Signature] 2-6-78 DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED *[Signature]* 2-6-78 DATE
 HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
[Signature] 3-1-78 DATE
 COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 3-9-78 DATE
 PLANNING DIRECTOR
[Signature] 3-9-78 DATE
 CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 2-27-78 DATE
 DIRECTOR
[Signature] 2-24-78 DATE
 CHIEF BUREAU OF ENGINEERING

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel.(301)997-0810

MACRIS FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
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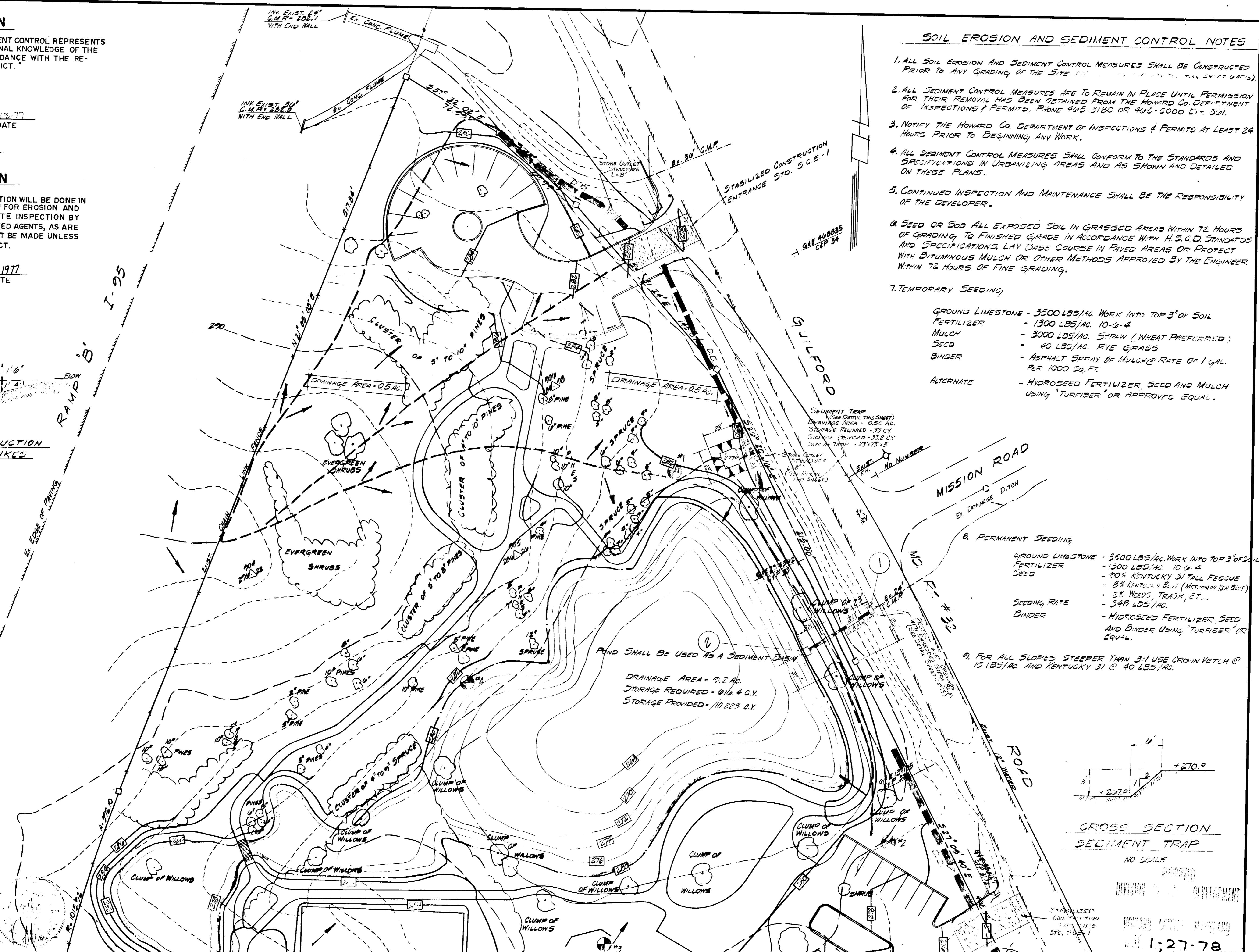
DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 SEPT 16, 1977 DATE
[Signature] DIRECTOR

CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL A ELECTION DISTRICT NO. 6

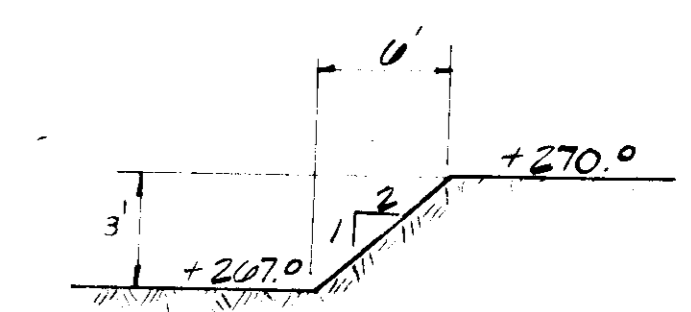
DRAWING NO. 5 OF 13
 SCALE 1" = 30'



SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OF THE SITE.
- ALL SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD CO. DEPARTMENT OF INSPECTIONS & PERMITS, PHONE 403-3180 OR 403-3000 EXT. 301.
- NOTIFY THE HOWARD CO. DEPARTMENT OF INSPECTIONS & PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY WORK.
- ALL SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS IN URBANIZING AREAS AND AS SHOWN AND DETAILED ON THESE PLANS.
- CONTINUED INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
- SEED OR SOO ALL EXPOSED SOIL IN GRASSSED AREAS WITHIN 72 HOURS OF GRADING, TO FINISHED GRADE IN ACCORDANCE WITH H.S.C.D. STANDARDS AND SPECIFICATIONS. LAY BASE COURSE IN PAVED AREAS OR PROTECT WITH BITUMINOUS MULCH OR OTHER METHODS APPROVED BY THE ENGINEER WITHIN 72 HOURS OF FINE GRADING.
- TEMPORARY SEEDING:
 - GROUND LIMESTONE - 3500 LBS/AC WORK INTO TOP 3" OF SOIL
 - FERTILIZER - 1300 LBS/AC 10-0-4
 - MULCH - 3000 LBS/AC. STRAW (WHEAT PREFERRED)
 - SEED - 40 LBS/AC. RYE GRASS
 - BINDER - ASPHALT SPRAY OR MULCH @ RATE OF 1 GAL. PER 1000 SQ. FT.
 - ALTERNATE - HYDROSEED FERTILIZER, SEED AND MULCH USING "TURFIBER" OR APPROVED EQUAL.

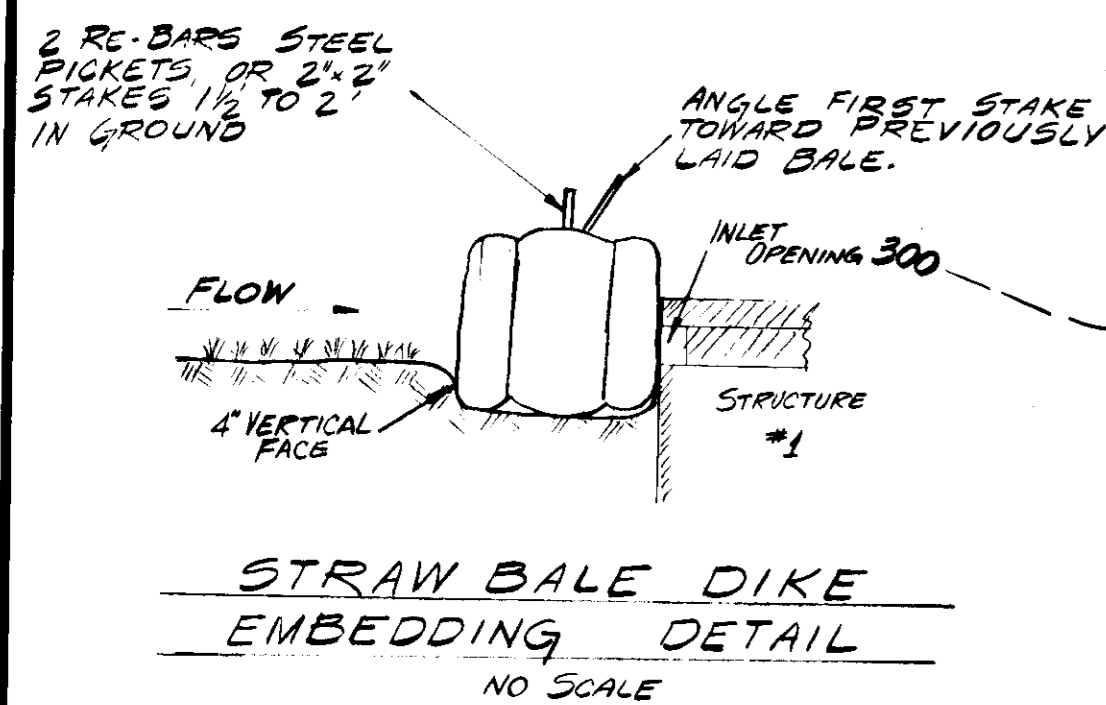
- PERMANENT SEEDING:
 - GROUND LIMESTONE - 3500 LBS/AC WORK INTO TOP 3" OF SOIL
 - FERTILIZER - 1500 LBS/AC 10-0-4
 - SEED - 20% KENTUCKY 31 TALL FESCUE - 8% KENTUCKY BLUE (MESQUITE OR KN BUSH) - 2% WHEATS, TRASH, ETC. - 348 LBS/AC.
 - SEEDING RATE - 15 LBS/AC
 - BINDER - HYDROSEED FERTILIZER, SEED AND BINDER USING "TURFIBER" OR EQUAL.
- FOR ALL SLOPES STEEPER THAN 3:1 USE CROWN VETCH @ 15 LBS/AC AND KENTUCKY 31 @ 40 LBS/AC.



CROSS SECTION SEDIMENT TRAP
 NO SCALE
 DATE 1-27-78
[Signature]

SEQUENCE OF CONSTRUCTION

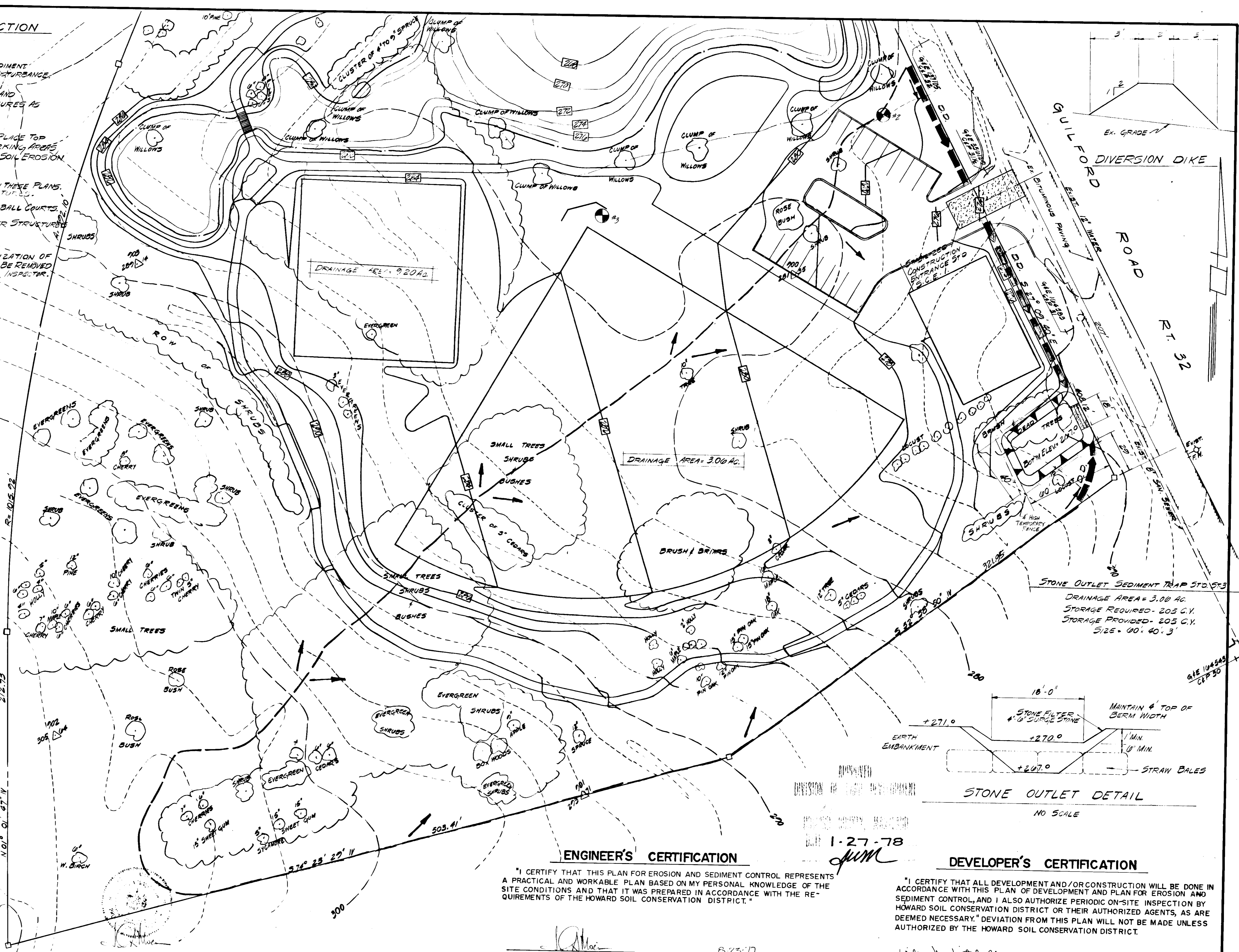
1. CONTRACTOR SHALL OBTAIN GRADING PERMIT.
2. CONSTRUCT AND MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES PRIOR TO ANY OTHER SITE DISTURBANCE.
3. PROCEED WITH SITE GRADING, POND EXCAVATION, AND CONSTRUCTION OF STORM WATER MANAGEMENT STRUCTURES AS SHOWN ON THESE PLANS.
4. AS VARIOUS AREAS ARE BROUGHT TO FINAL GRADE PLACE TOP SOIL, SOIL SEED/SEED GRASSES AREAS, AND PAVE PARKING AREAS ALL IN CONFORMANCE WITH THESE PLANS AND THE SOIL EROSION AND SEDIMENT CONTROL NOTES.
5. CONSTRUCT WATER AND SEWER LINES AS SHOWN ON THESE PLANS.
6. CONSTRUCT 6' WIDE BIKE PATH, TENNIS AND BASKETBALL COURTS.
7. CONSTRUCT BENCHES, BACKSTOPS, FENCES AND OTHER STRUCTURES SHOWN ON THESE PLANS.
8. UPON COMPLETION OF FINE GRADING AND STABILIZATION OF SITE ALL SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED UPON PERMISSION FROM HOWARD CO. SEDIMENT CONTROL INSPECTOR.



REVIEWED FOR Howard S.C.D. NAME
 AND MEETS TECHNICAL REQUIREMENTS
C. Wagner Roy 4-2-78 DATE
 SIGNATURE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED Wes EARP 2-6-78 DATE
 HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
James B. ... 3-1-78 DATE
 COUNTY HEALTH OFFICER
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR DATE
John ... 5-9-78 DATE
 CHIEF DIVISION OF LAND DEVELOPMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Mr. Regan 2-27-78 DATE
 DIRECTOR
W. O. ... 2-24-78 DATE
 CHIEF BUREAU OF ENGINEERING

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel.(301)997-0810



ENGINEER'S CERTIFICATION

"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."

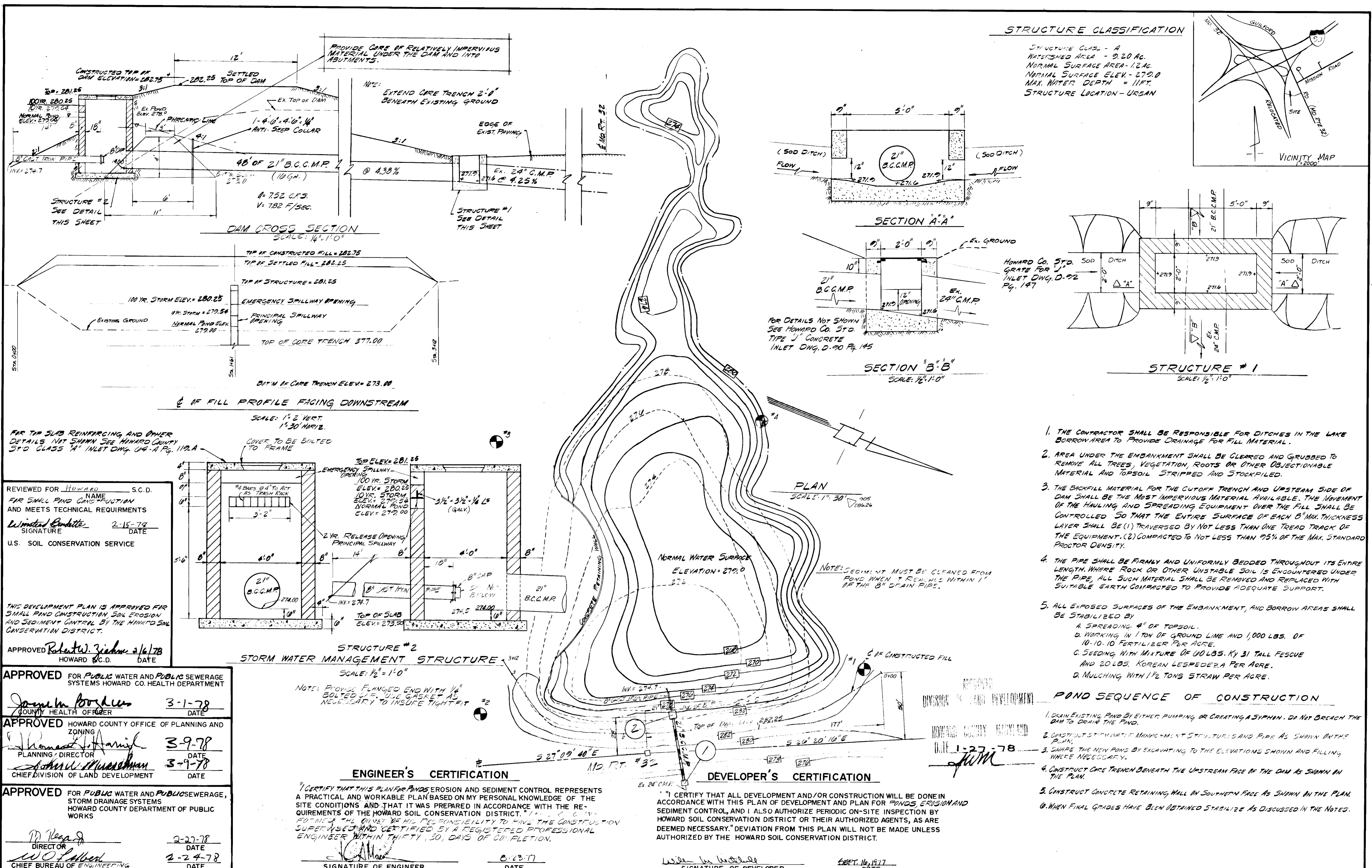
[Signature]
 SIGNATURE OF ENGINEER
 8-23-77 DATE

DEVELOPER'S CERTIFICATION

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY 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."

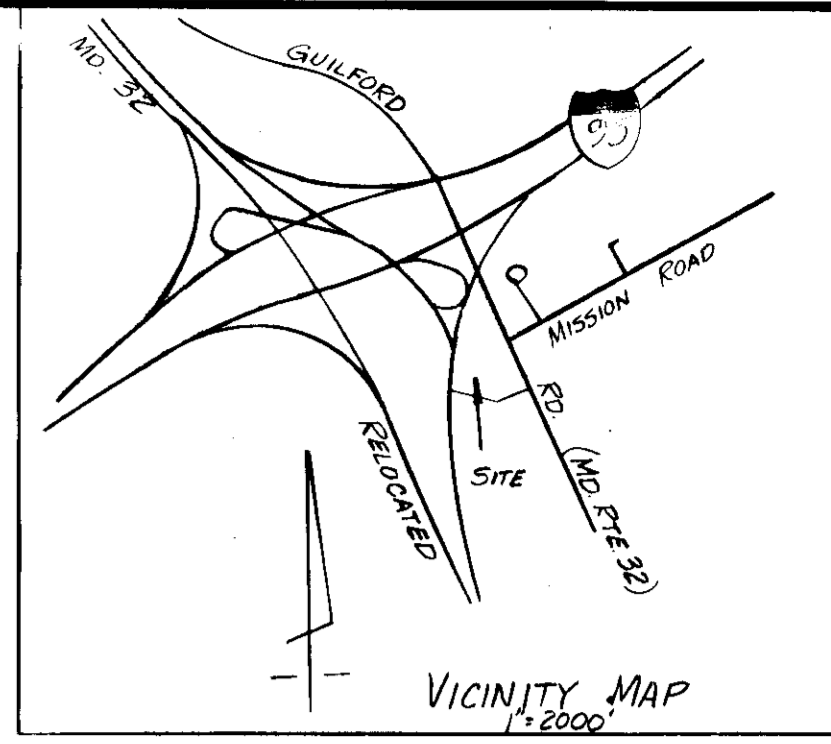
[Signature]
 SIGNATURE OF DEVELOPER
 SEPT. 16, 1977 DATE

land plan associates	MACRIS-FOWLER ASSOCIATES ENGINEERS, SURVEYORS, PLANNERS 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL.(301)340-8705	DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND SEP 16, 1977 DATE <u>[Signature]</u> DIRECTOR	CAPITAL PROJECT N-4-3038 AGREEMENT NO. 77-13	SITE DEVELOPMENT PLAN	GREENBRIAR PARK TAX MAP 42 LIBER 768 FOLIO 602 PARCEL "A" ELECTION DISTRICT NO. 6	DRAWING NO. 13	SCALE 1"=30'
						SDP-78-40	



STRUCTURE CLASSIFICATION

STRUCTURE CLASS - A
 WATERSHED AREA - 9.20 AC.
 NORMAL SURFACE AREA - 12 AC.
 NORMAL SURFACE ELEV. - 279.0
 MAX. WATER DEPTH - 11 FT.
 STRUCTURE LOCATION - URBAN



1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DITCHES IN THE LAKE BORROW AREA TO PROVIDE DRAINAGE FOR FILL MATERIAL.
2. AREA UNDER THE EMBANKMENT SHALL BE CLEARED AND GRUBBED TO REMOVE ALL TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL AND TOPSOIL STRIPPED AND STOCKPILED.
3. THE BACKFILL MATERIAL FOR THE CUTOFF TRENCH AND UPSTREAM SIDE OF DAM SHALL BE THE MOST IMPERVIOUS MATERIAL AVAILABLE. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH 6" MAX. THICKNESS LAYER SHALL BE (1) TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT. (2) COMPACTED TO NOT LESS THAN 95% OF THE MAX. STANDARD PROCTOR DENSITY.
4. THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR OTHER UNSTABLE SOIL IS ENCOUNTERED UNDER THE PIPE, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
5. ALL EXPOSED SURFACES OF THE EMBANKMENT, AND BORROW AREAS SHALL BE STABILIZED BY:
 - A. SPREADING 4" OF TOPSOIL.
 - B. WORKING IN 1 TON OF GROUND LIME AND 1,000 LBS. OF 10-10-10 FERTILIZER PER ACRE.
 - C. SEEDING WITH MIXTURE OF 60 LBS. KY 31 TALL FESCUE AND 20 LBS. KOREAN LESPEDERA PER ACRE.
 - D. MULCHING WITH 1 1/2 TONS STRAW PER ACRE.

POND SEQUENCE OF CONSTRUCTION

1. DRAIN EXISTING POND BY EITHER PUMPING OR CREATING A SYMPHON. DO NOT BREACH THE DAM TO DRAIN THE POND.
2. CONSTRUCT STORM WATER MANAGEMENT STRUCTURES AND PIPE AS SHOWN ON THE PLAN.
3. SHAPE THE NEW POND BY EXCAVATING TO THE ELEVATIONS SHOWN AND FILLING WHERE NECESSARY.
4. CONSTRUCT CORE TRENCH BENEATH THE UPSTREAM FACE OF THE DAM AS SHOWN IN THE PLAN.
5. CONSTRUCT CONCRETE RETAINING WALL ON SOUTHERN FACE AS SHOWN ON THE PLAN.
6. WHEN FINAL GRADES HAVE BEEN OBTAINED STABILIZE AS DISCUSSED IN THE NOTES.

REVIEWED FOR HOWARD COUNTY S.C.D. FOR SMALL POND CONSTRUCTION AND MEETS TECHNICAL REQUIREMENTS
 Signature: *Wendell Bondite* 2-15-78 DATE
 U.S. SOIL CONSERVATION SERVICE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
 Signature: *James H. Boudler* 3-1-78 DATE
 COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Signature: *Thomas J. Harrel* 3-9-78 DATE
 PLANNING DIRECTOR
 Signature: *John W. Mueselmann* 3-9-78 DATE
 CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: *D. Vega* 2-27-78 DATE
 DIRECTOR
 Signature: *W.O. Salsed* 2-24-78 DATE
 CHIEF BUREAU OF ENGINEERING

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel. (301) 997-Q810

MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD 20850 TEL. (301) 340-8705

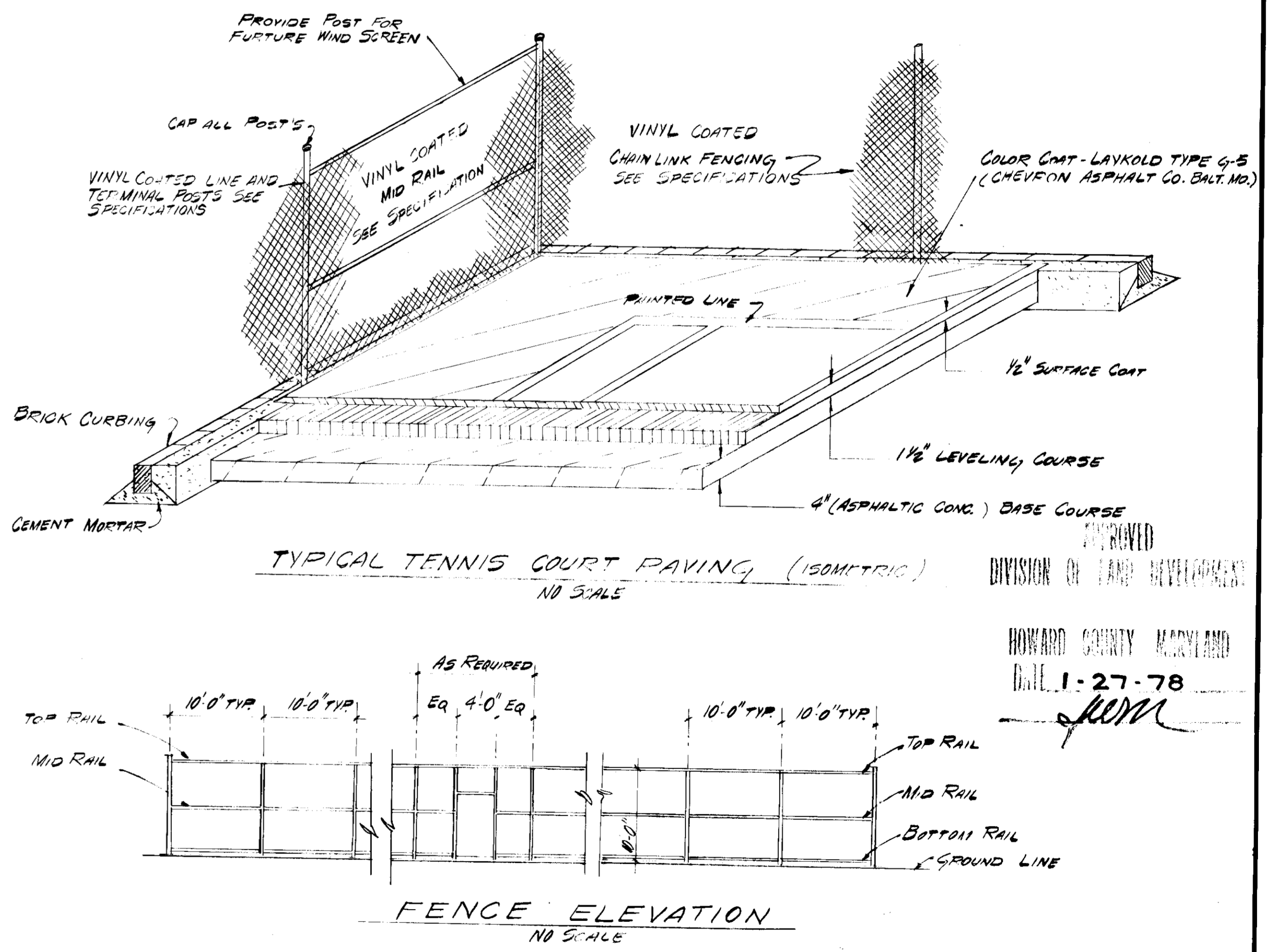
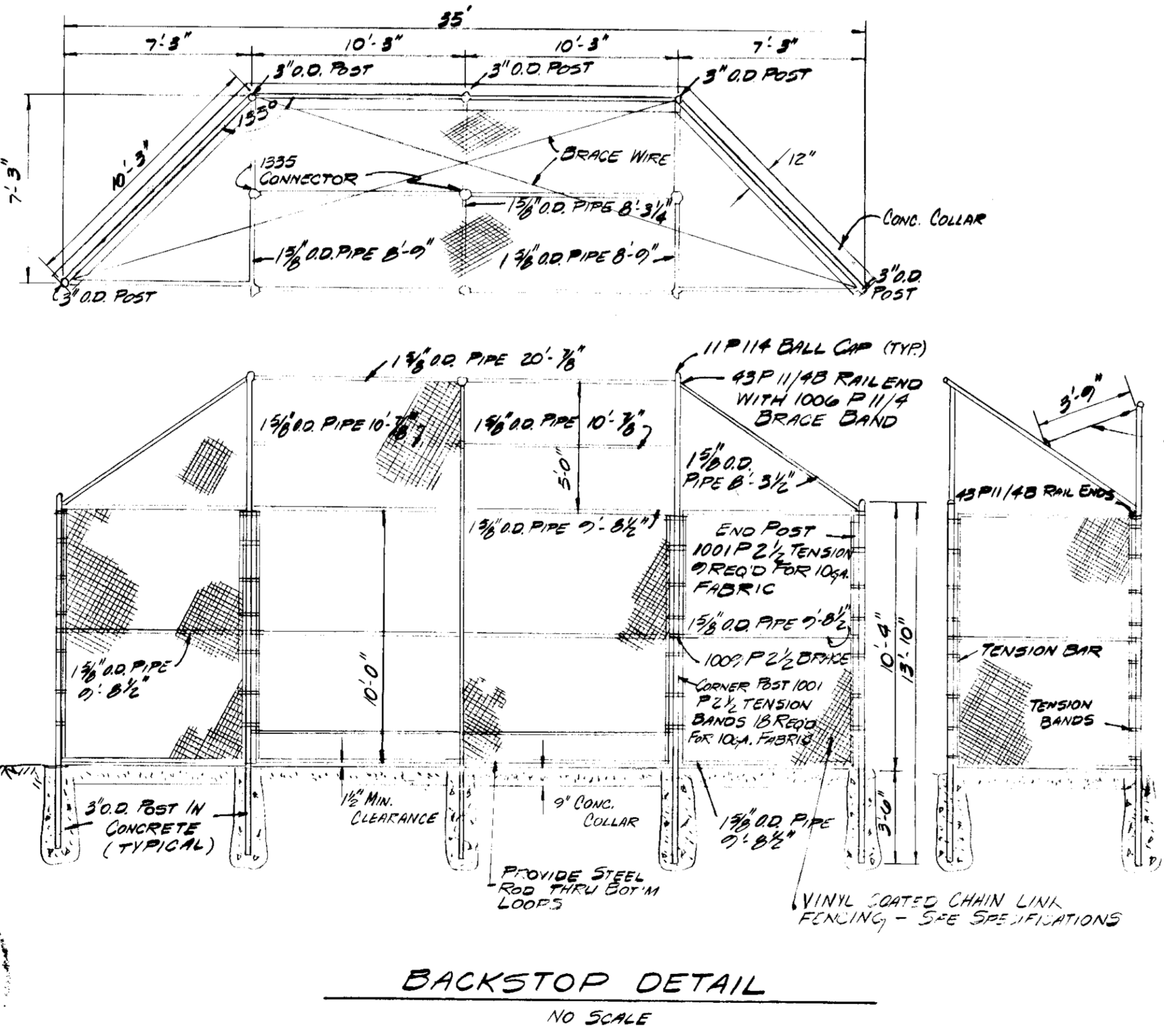
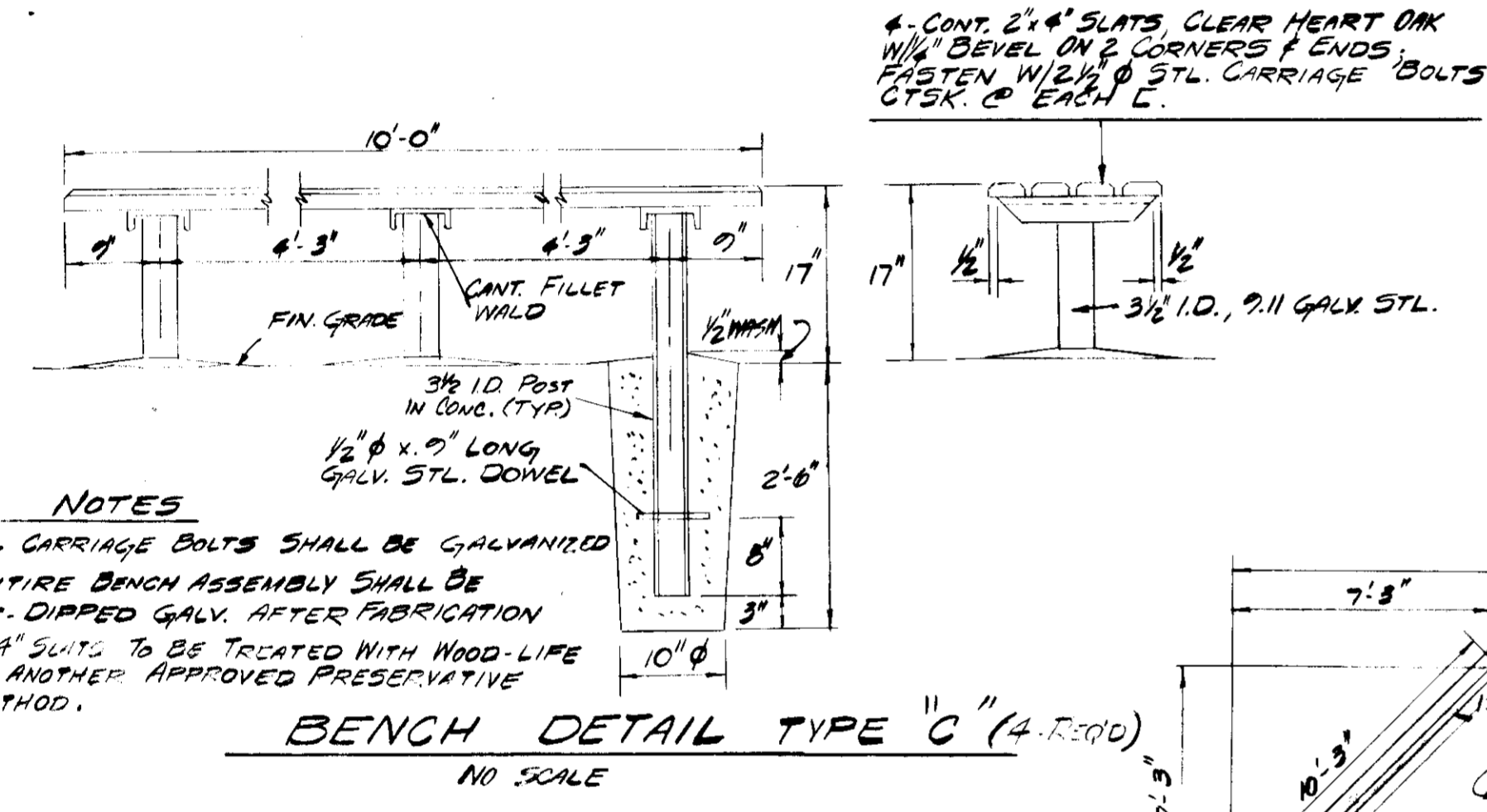
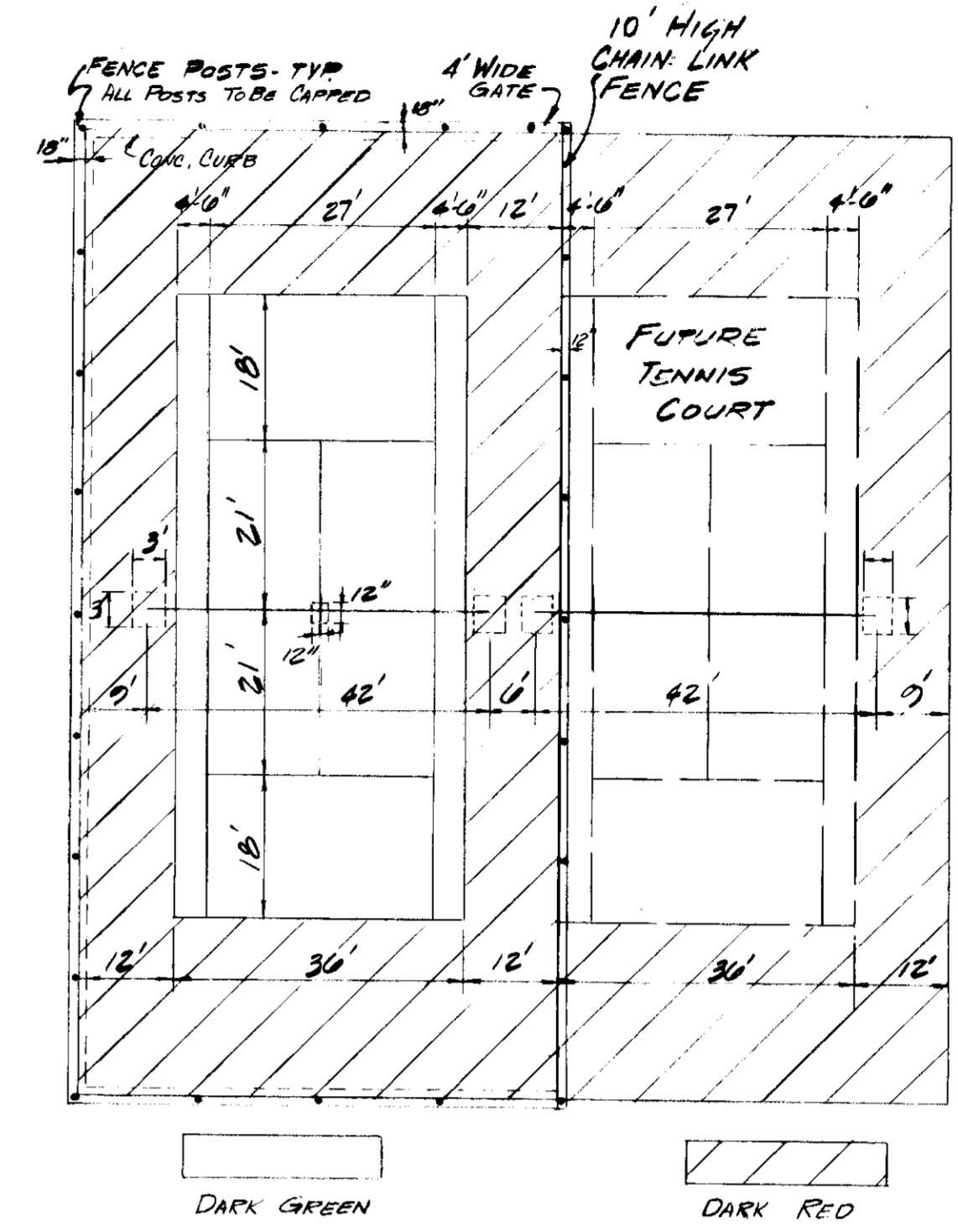
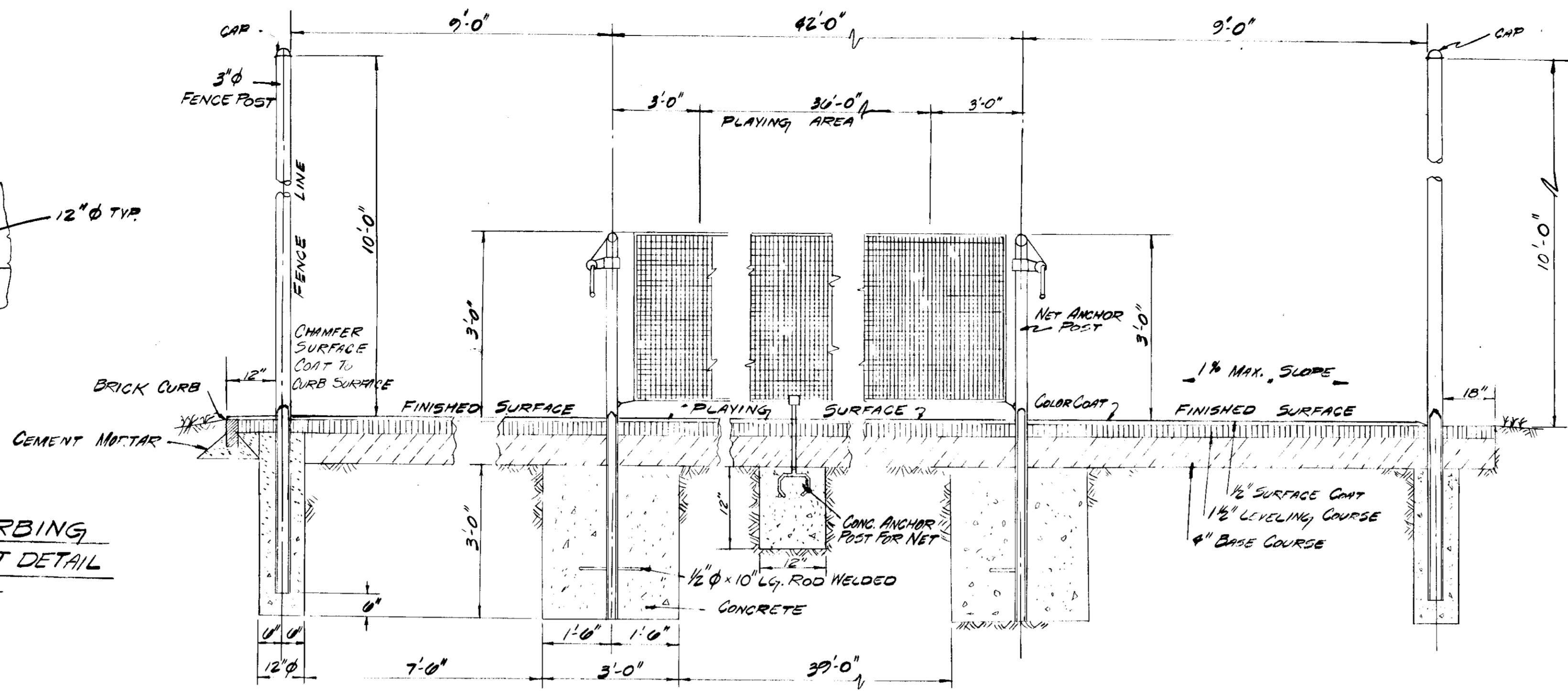
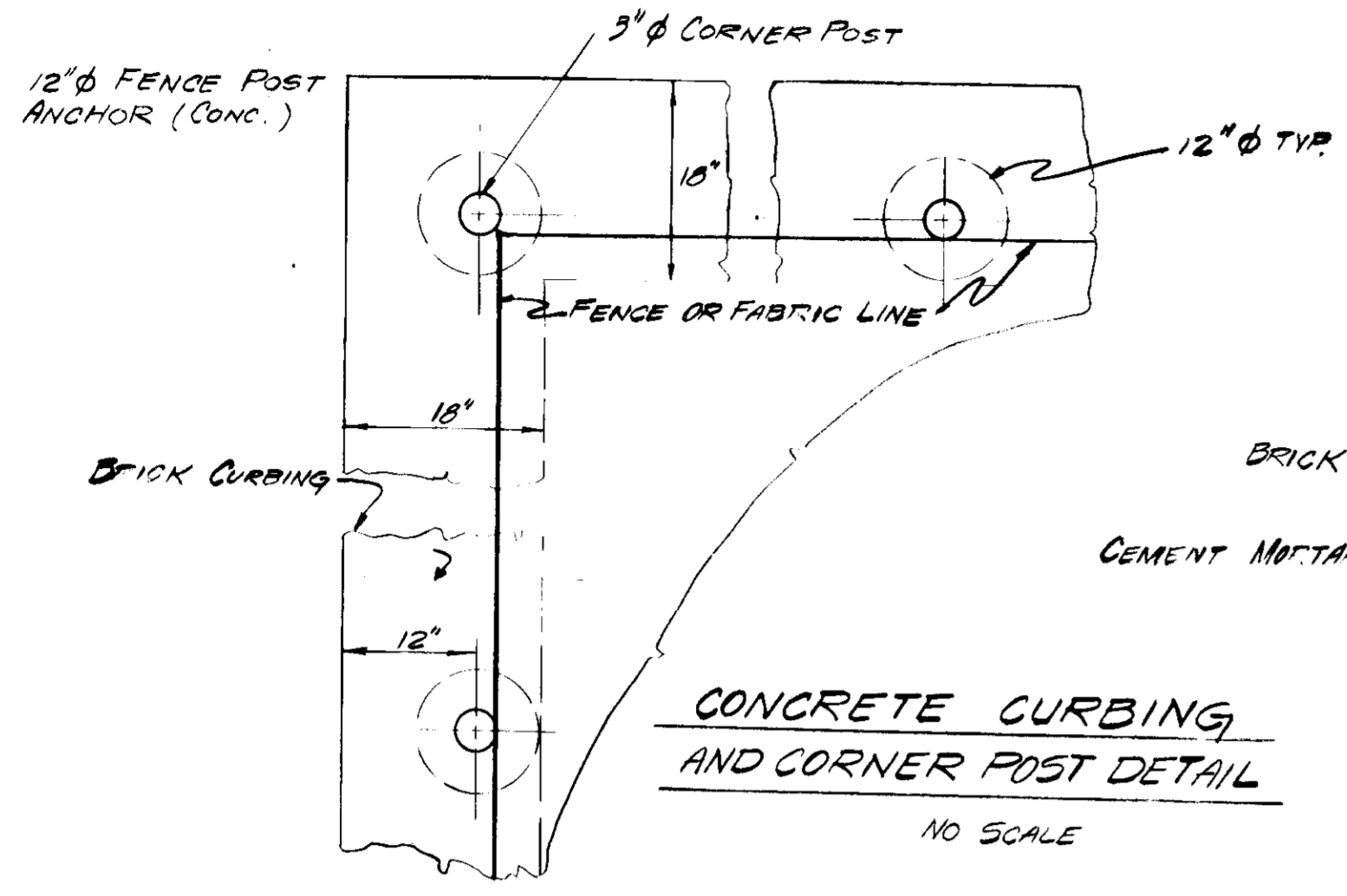
DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 DATE: SEPT 16, 1977
 Signature: *Wendell Bondite* DIRECTOR

CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT
 PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL 'A' ELECTION DISTRICT NO. 6

DRAWING NO. 7 OF 13
 SCALE AS SHOWN



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 3-1-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR DATE 3-9-78
 CHIEF DIVISION OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR DATE 2-27-78
 CHIEF BUREAU OF ENGINEERING DATE 2-24-78



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 suite 719 american city building
 columbia, maryland 21044 tel. (301) 997-0810

MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL. (301) 340-8705

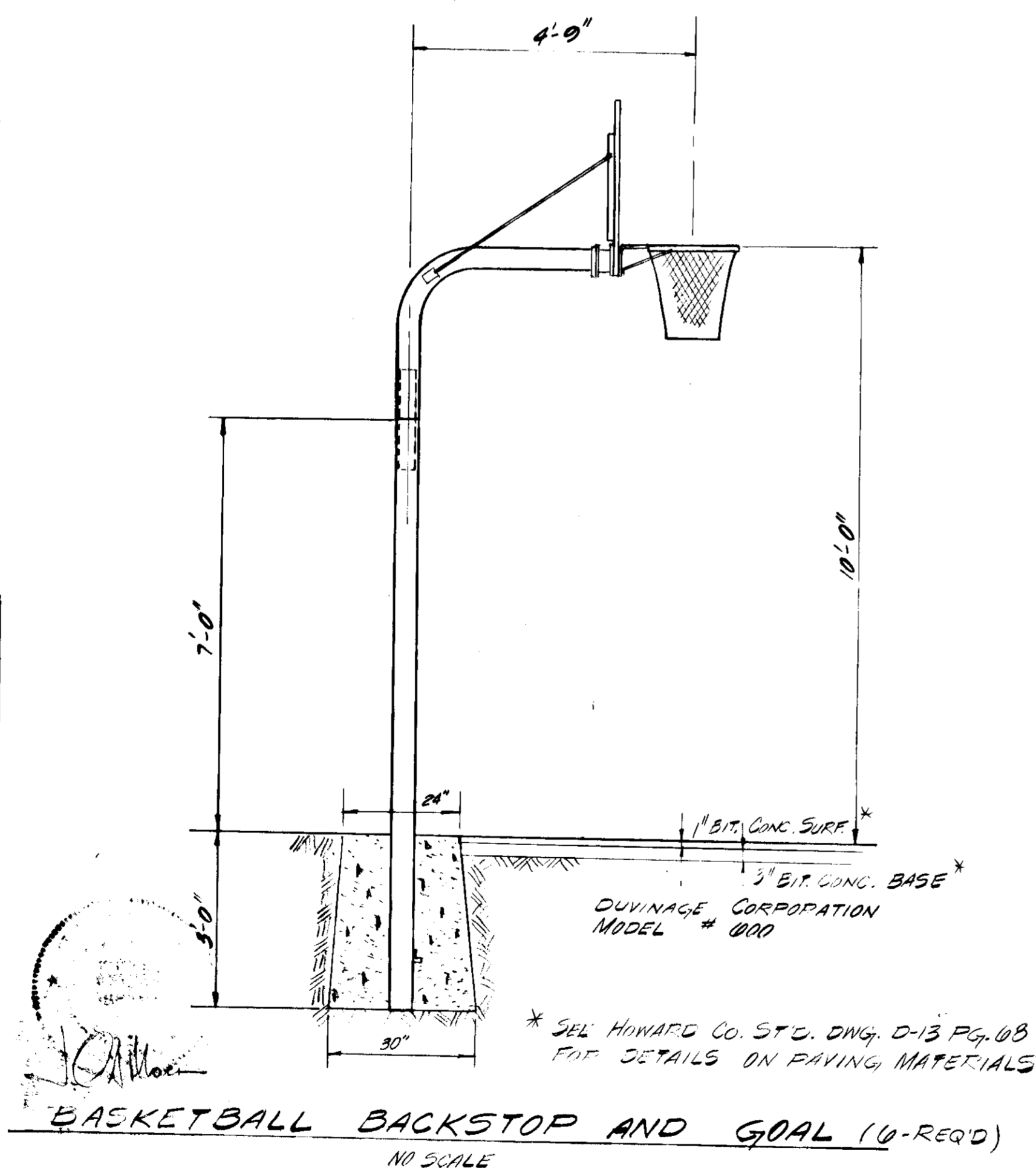
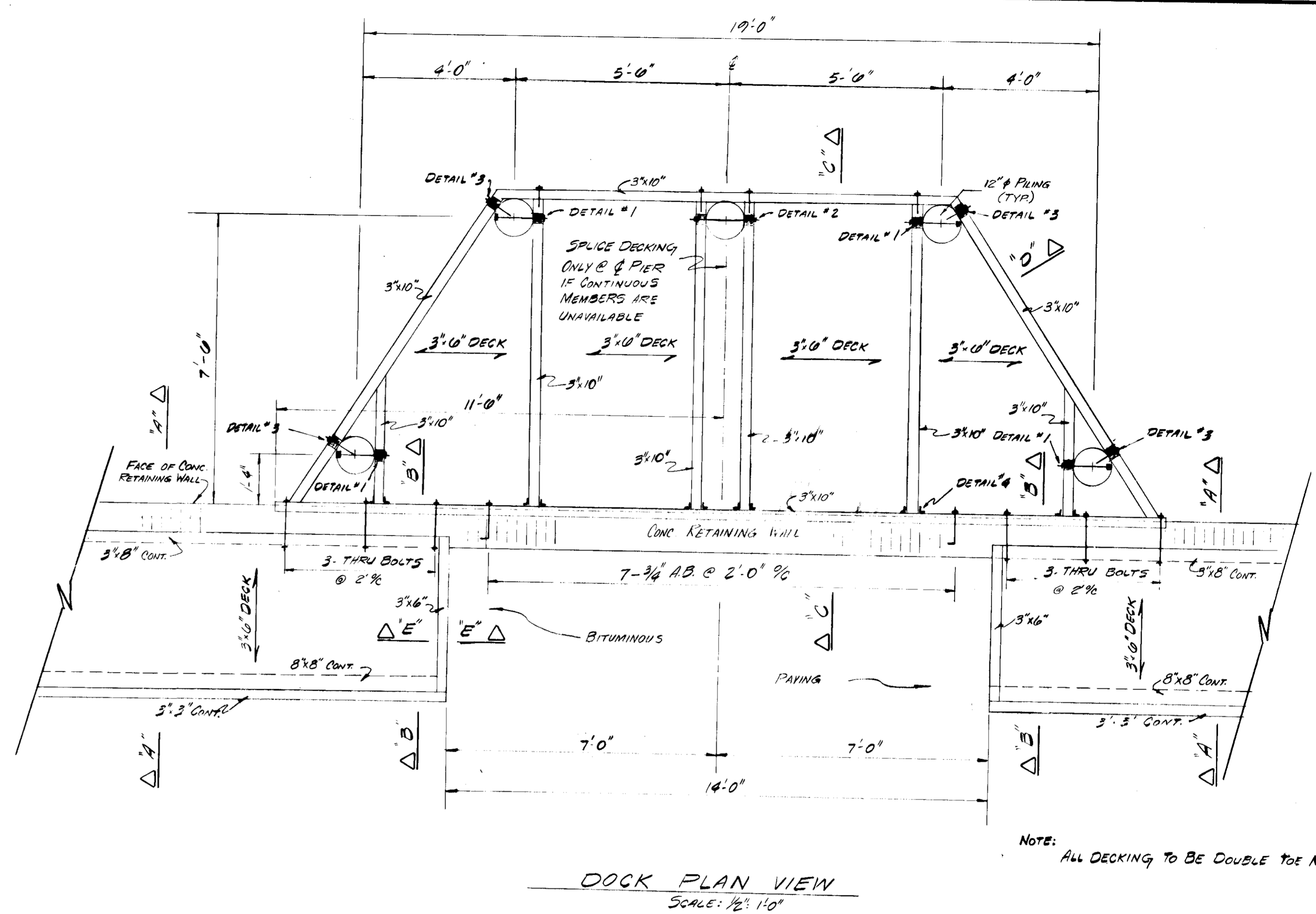
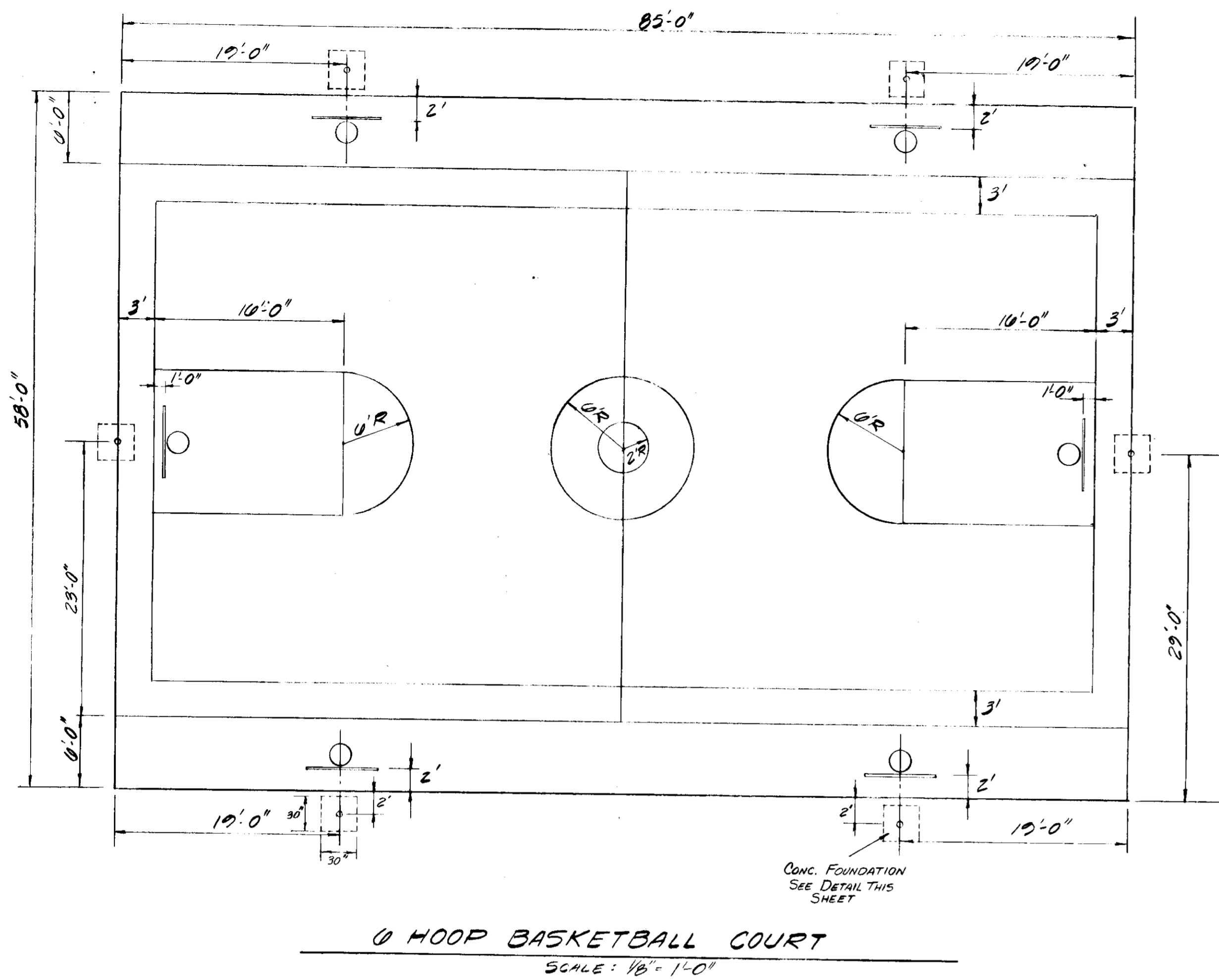
DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 DATE 3/24/78 DIRECTOR

CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL A ELECTION DISTRICT NO. 6

DRAWING SCALE
 NO. 8 AS SHOWN
 OF 13



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
Paula Boden COUNTY HEALTH OFFICER 3-1-78 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas Harig PLANNING DIRECTOR 3-9-78 DATE
William H. ... CHIEF DIVISION OF LAND DEVELOPMENT 5-9-78 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
W. ... DIRECTOR 2-27-78 DATE
W. ... CHIEF BUREAU OF ENGINEERING 2-24-78 DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 1-27-78
[Signature]

land plan associates
 suite 719 america city building
 columbia, maryland 21044 tel. (301) 997-0810

MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL. (301) 340-8705

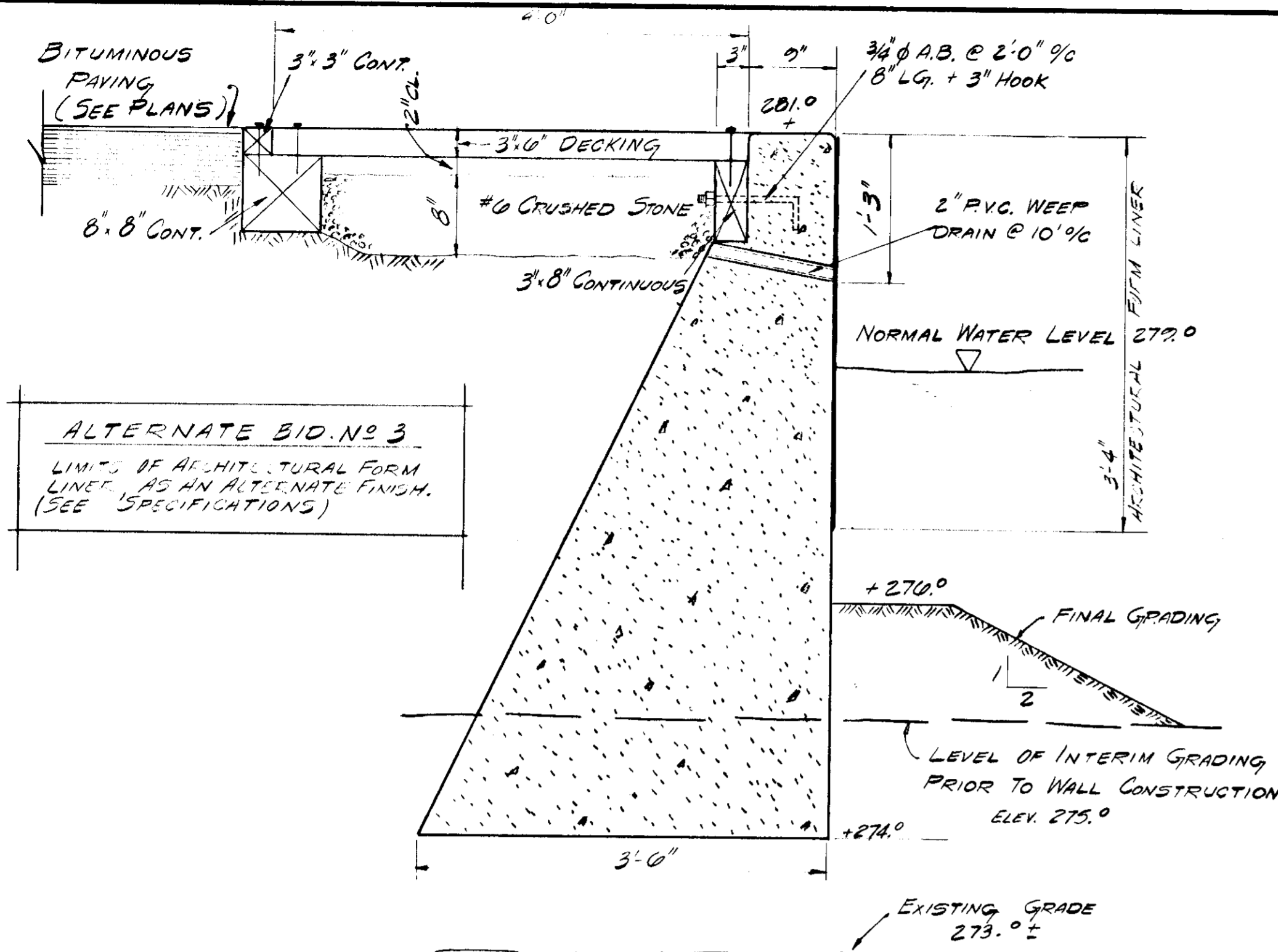
DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 SEPT. 16, 1977 DATE
[Signature] DIRECTOR

CAPITAL PROJECT N-4-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL "A" ELECTION DISTRICT NO. 6

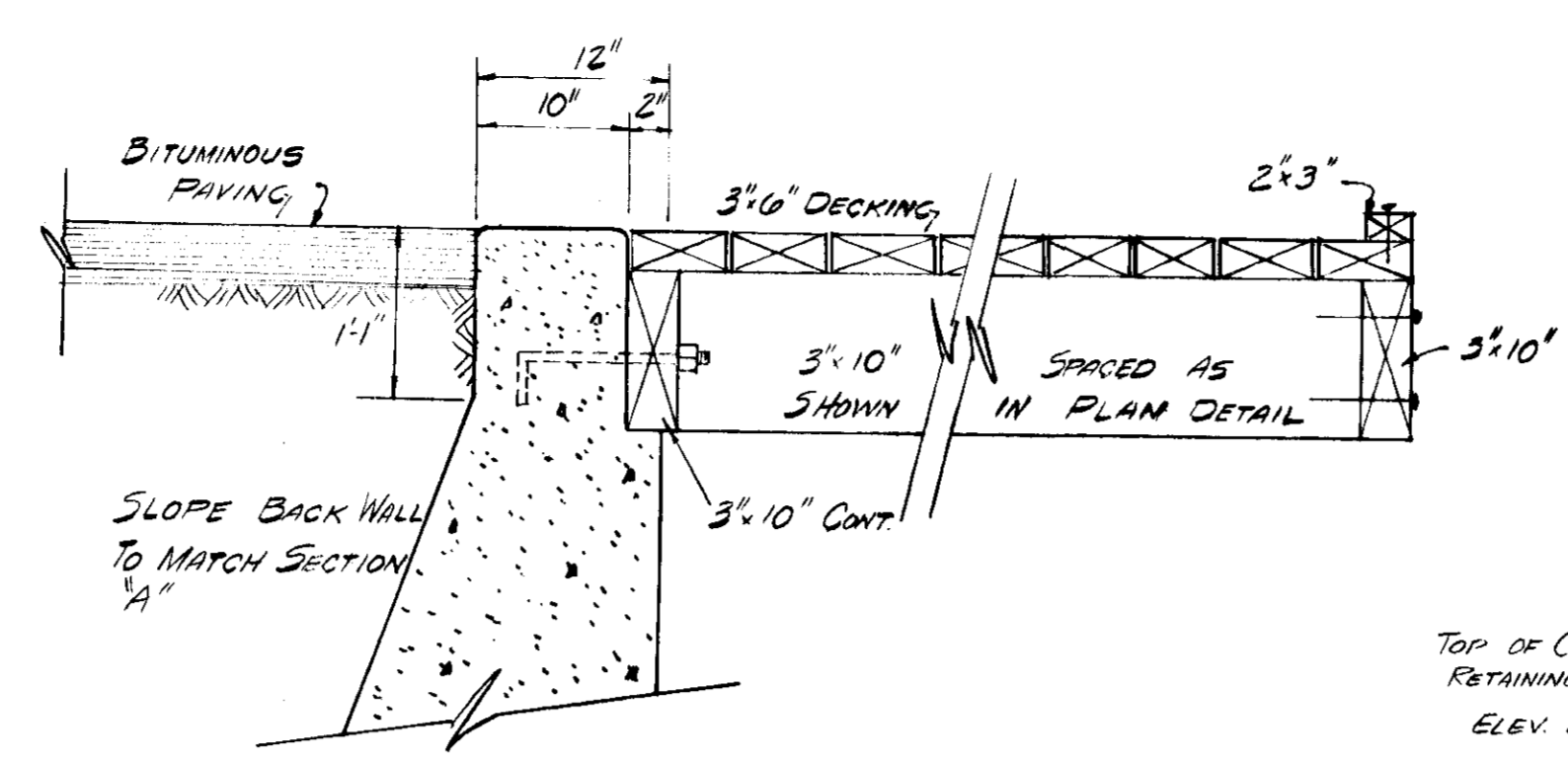
DRAWING SCALE
 NO. 9 OF 13



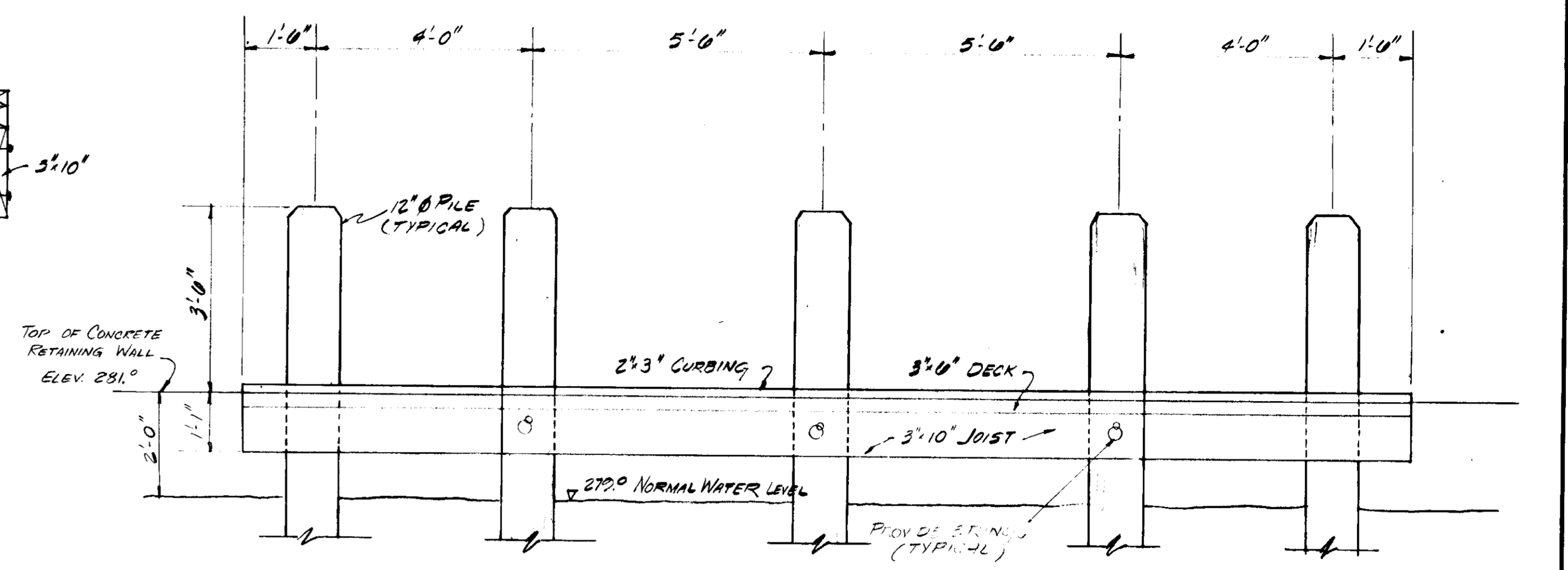
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ALTERNATE BID. NO 3
LIMITS OF ALTERNATE FORM
LIMITS AS AN ALTERNATE FINISH
(SEE SPECIFICATIONS)

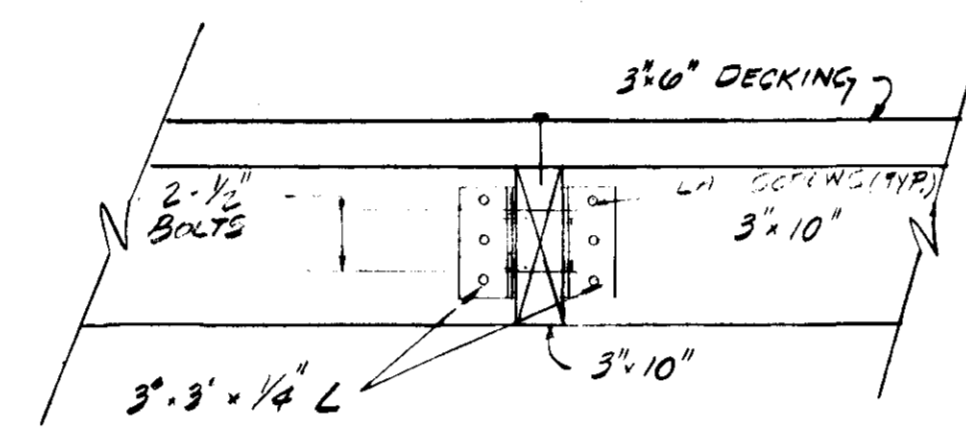
REMOVE UNSUITABLE MATERIALS
AS NECESSARY (SEE SPECIFICATIONS)



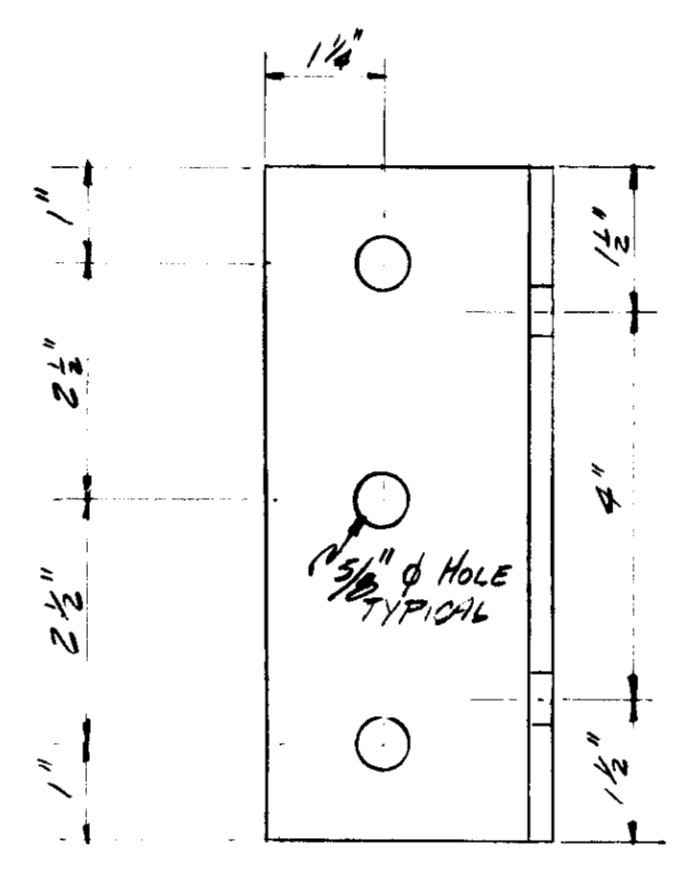
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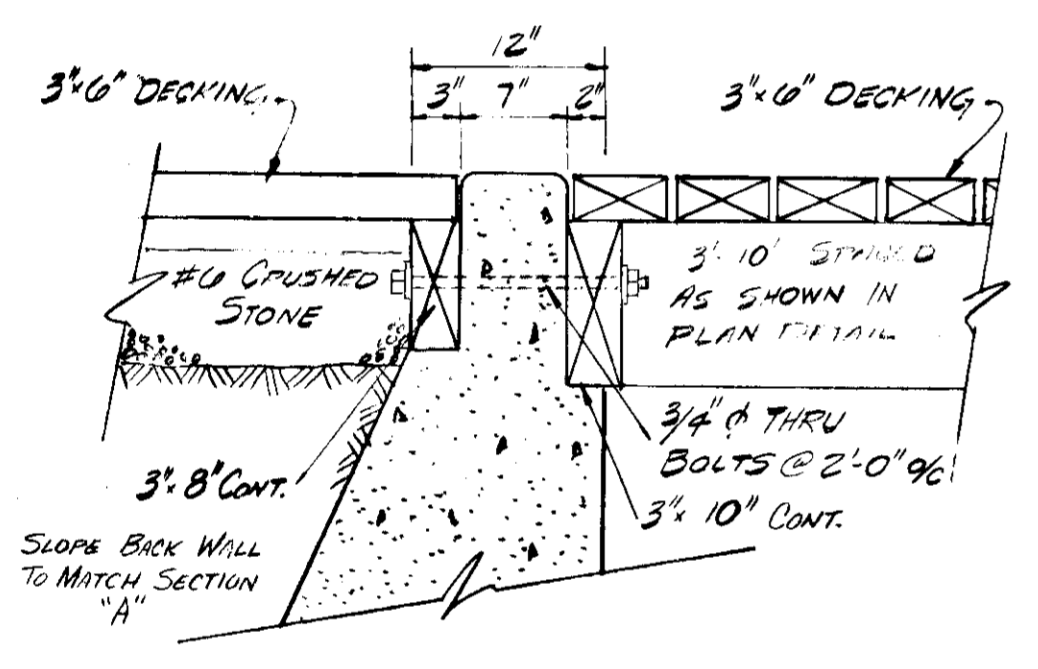
FRONT ELEVATION
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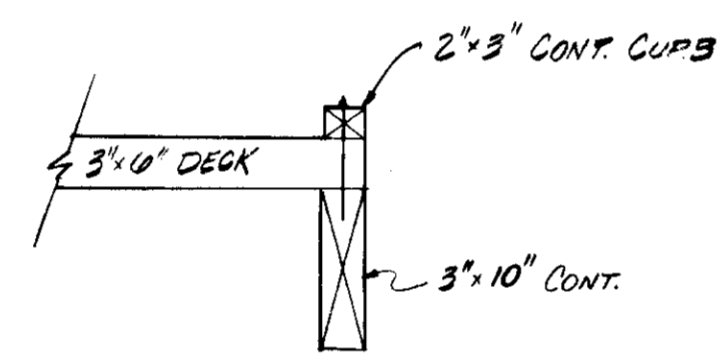
DETAIL #4
SCALE: 1/2"=1'-0"



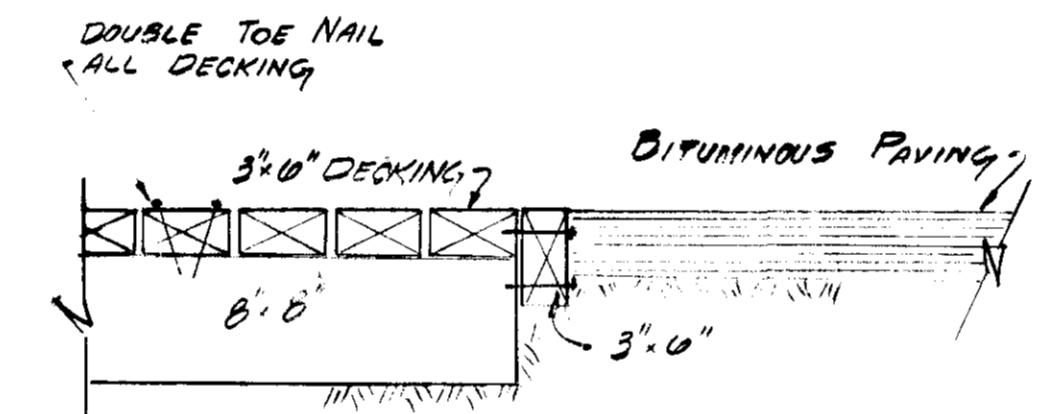
DETAIL OF 3x3 1/4 L



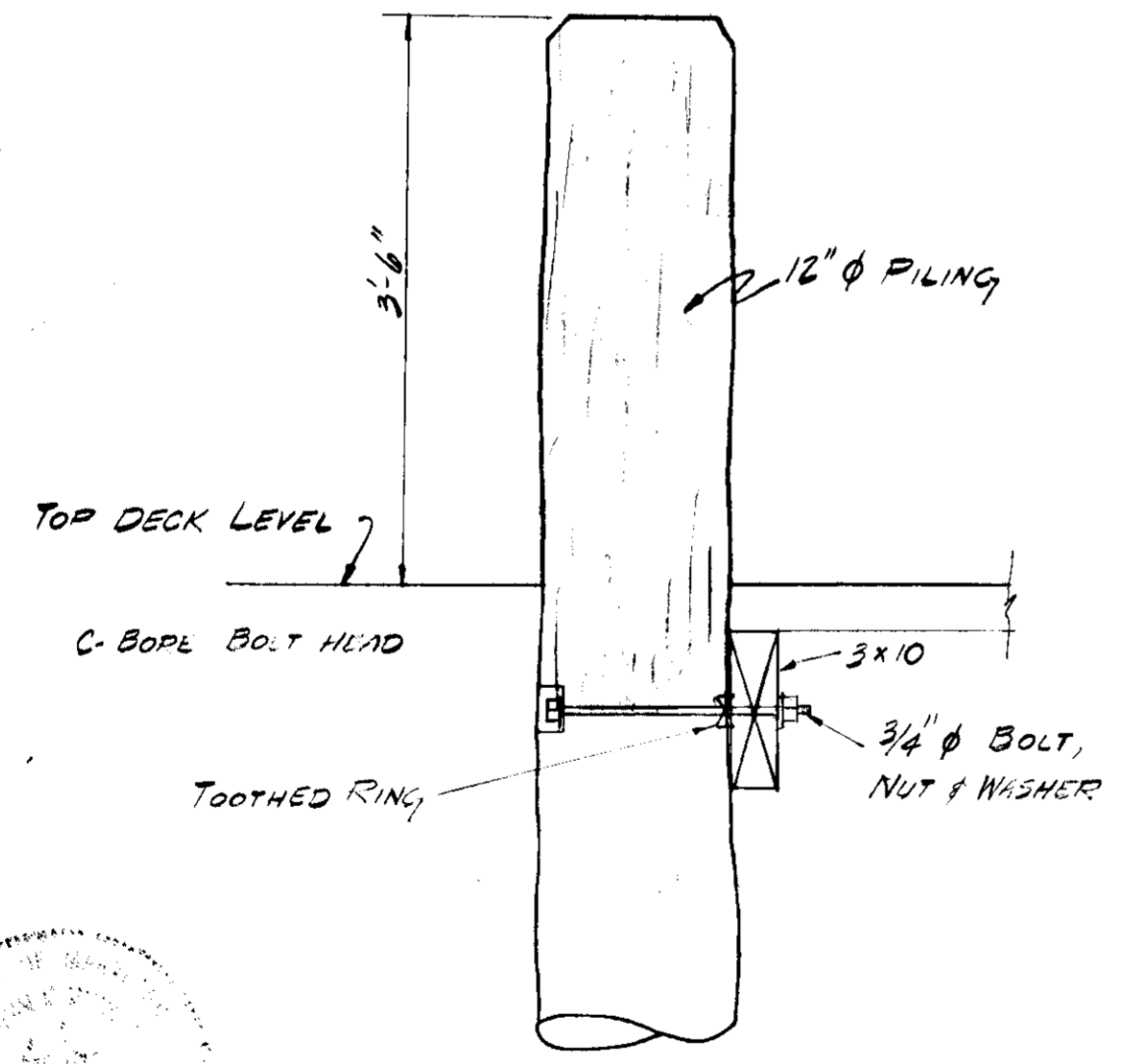
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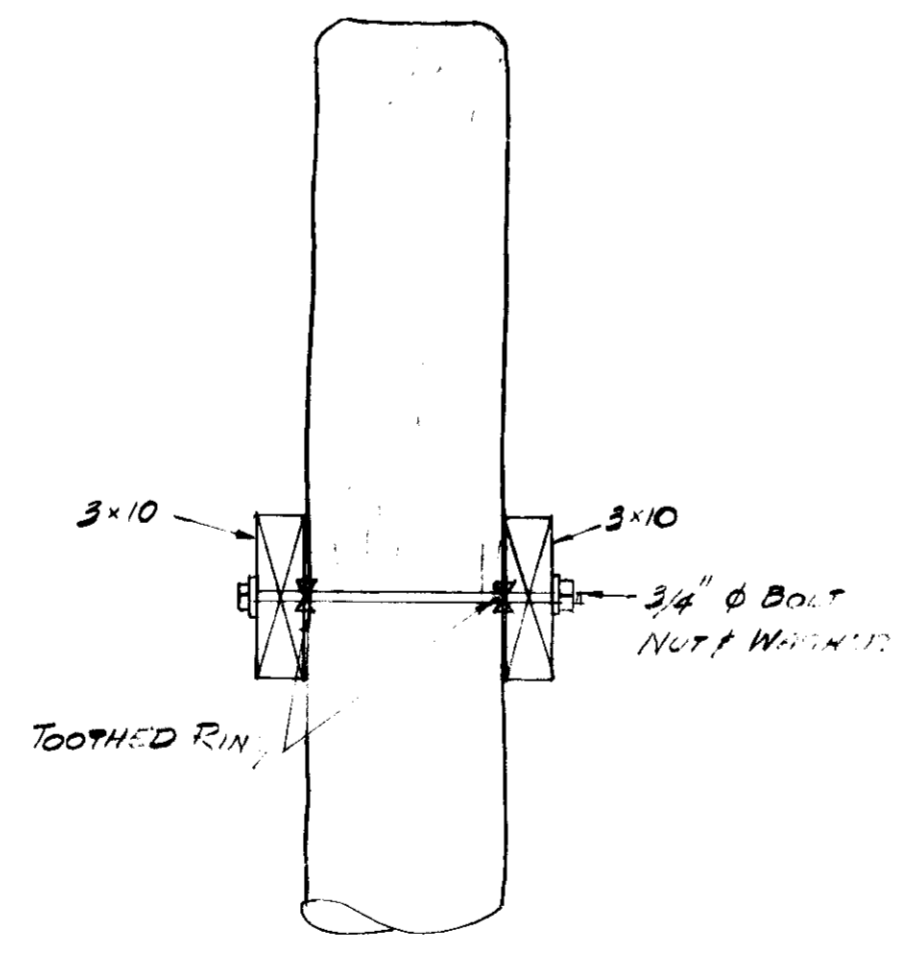
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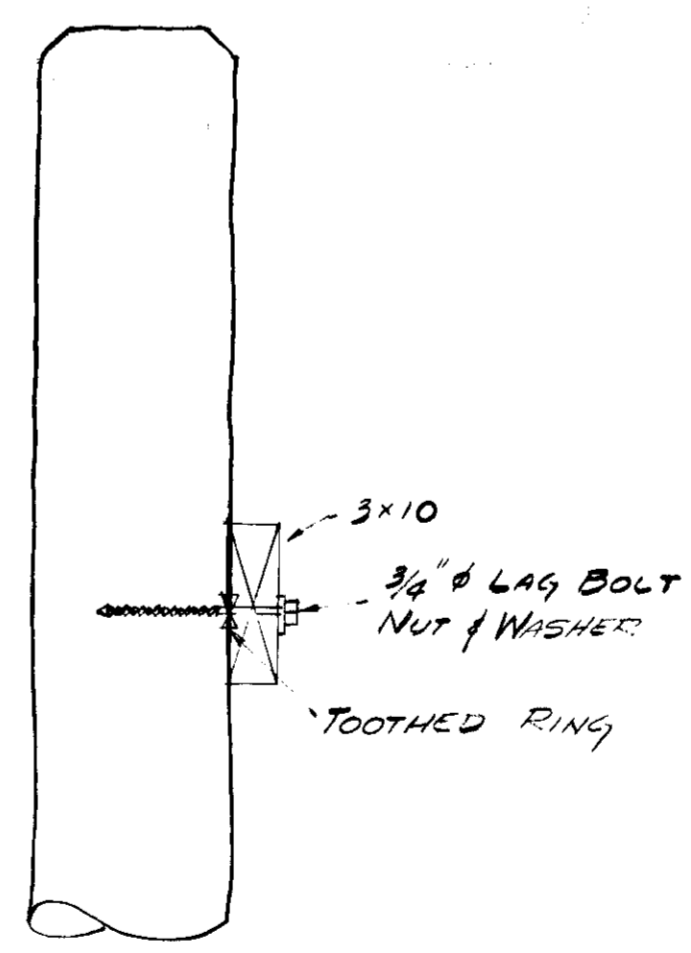
SECTION "E"
SCALE: 1/2"=1'-0"



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



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



DETAIL #3
SCALE: 1/2"=1'-0"

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
Joseph B. Breda 3-1-78
 COUNTY HEALTH OFFICER DATE

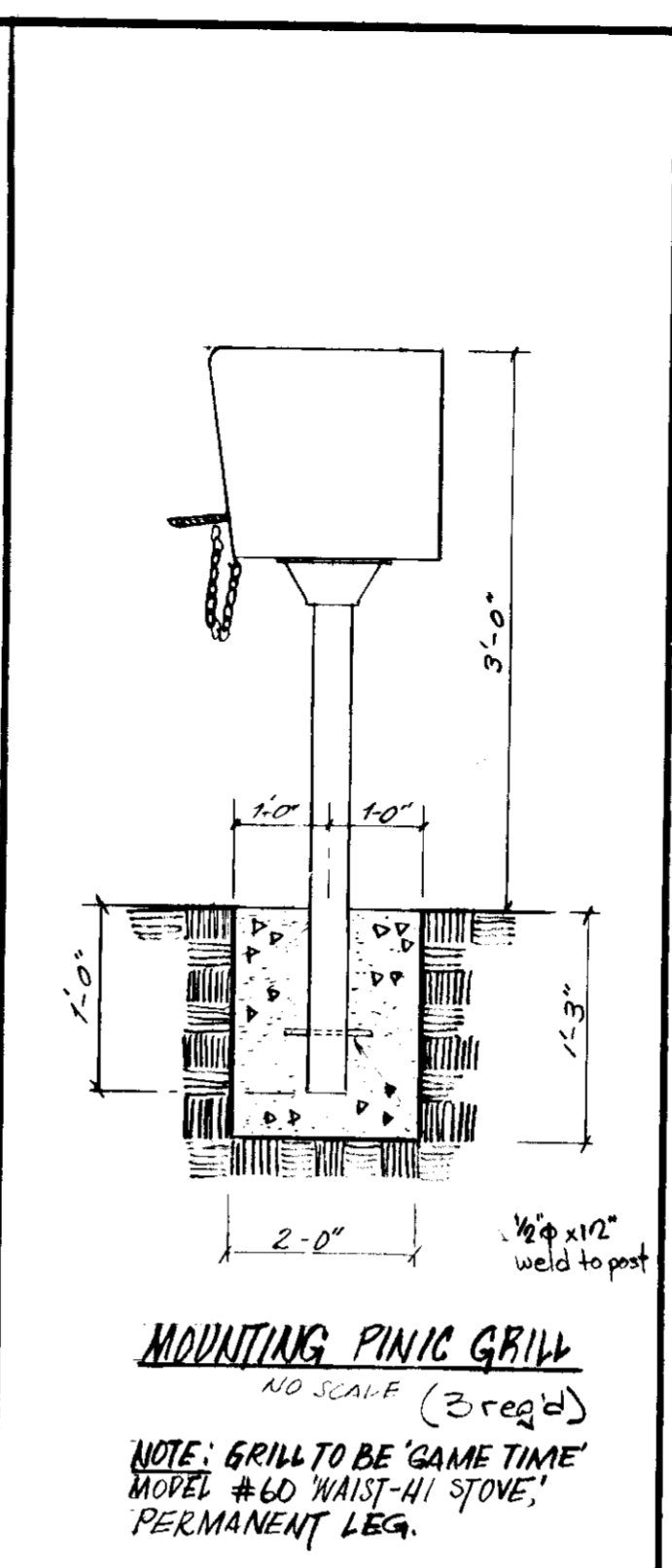
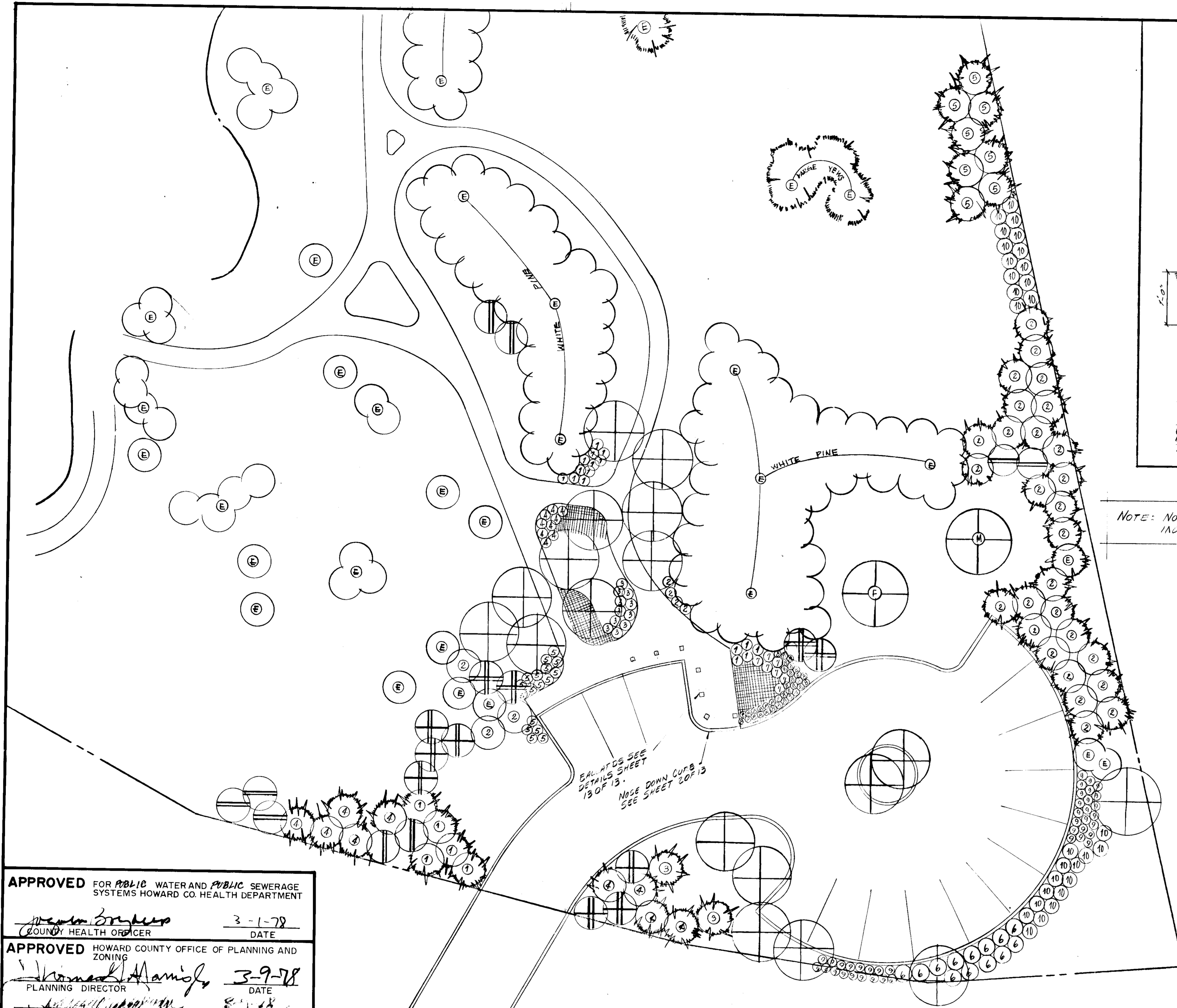
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Harris 3-9-78
 PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
P. J. Pappas 2-27-78
 DIRECTOR DATE

W. C. Lambert 2-29-78
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT
 1-27-78
[Signature]

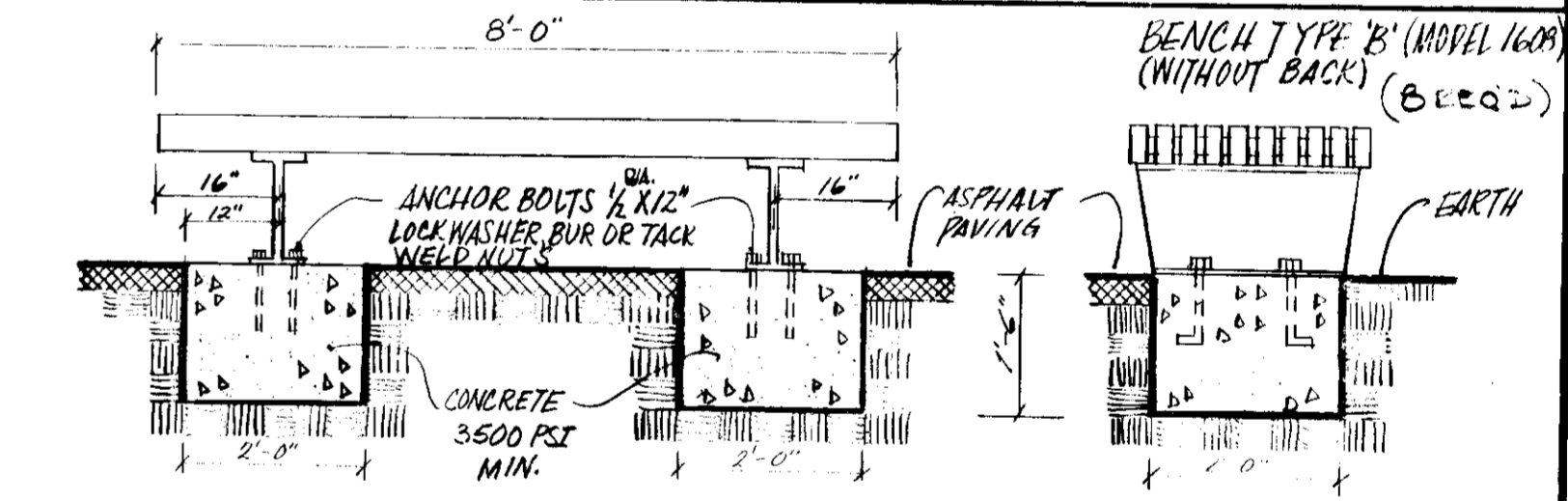
land plan associates suite 719 american city building columbia, maryland 21044 tel.(301)997-0810	MACRIS-FOWLER & ASSOCIATES ENGINEERS, SURVEYORS, PLANNERS 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850, TEL. (301) 340-8705	DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND SEPT. 16, 1978 DATE <i>W. C. Lambert</i> DIRECTOR	CAPITAL PROJECT N-4-3Q38 AGREEMENT NO. 77-13	SITE DEVELOPMENT PLAN	GREENBRIAR PARK TAX MAP 42 LIBER 768 FOLIO 602 PARCEL "A" ELECTION DISTRICT NO. 6	DRAWING NO. 10 SCALE OF 13
	SDP-78-40					



NOTE: NO PLANTINGS SHALL BE INCLUDED IN THE BASE BID.

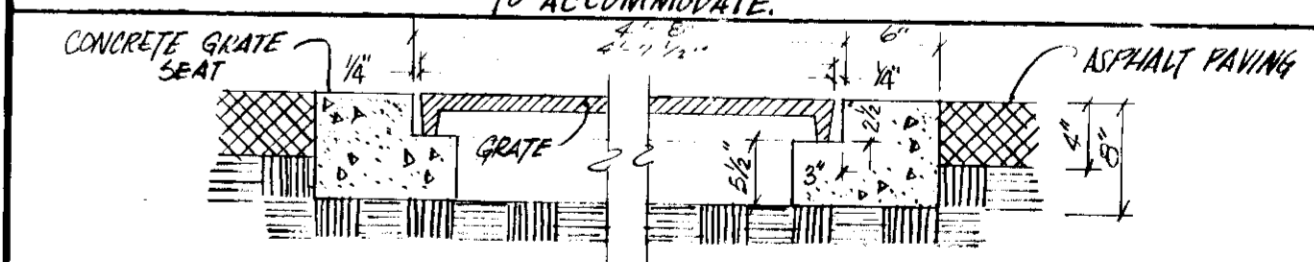
NO PLANTINGS SHALL BE INCLUDED IN THE BASE BID.

KEY	PLANT NAME	SIZE	AMT	REMARKS
⊕	QUERCUS BOREALIS NORTHERN RED OAK		18	B/B, 15' O.C. DRAS SHOWN
⊙	ILEX OPACA AMERICAN HOLLY		2	⊙ FEMALE ⊙ MALE
⊕	MALUS FLORIBUNDA JAPANESE FLOWERING CRAB		4	B/B, 8' O.C. OR AS SHOWN
⊕	CERCIS CANADENSIS AMERICAN REDBUD		5	B/B, 8' O.C.
⊕	CERCIS CANADENSIS ALBA WHITE AMERICAN REDBUD		4	B/B, 8' O.C.
⊕	CORNUS KOUSA JAPANESE DOGWOOD		7	B/B, 8' O.C.
⊕	PINUS NIGRA AUSTRIAN PINE		5	B/B, 8' O.C.
⊕	PINUS STROBUS WHITE PINE		31	B/B, 8' O.C.
⊕	PINUS THUNBERGI JAPANESE BLACK PINE		2	B/B, AS SHOWN
⊕	PICEA ABIES EXCELSA NORWAY SPRUCE		8	B/B, 8' O.C.
⊕	JUNIPERUS VIRGINIANA EASTERN REDCEDAR		8	B/B, 8' O.C.
⊕	RHOENODENDRON CATAMBIENSIS HYBRID RHODODENDRON		16	'ROSEUM ELEGANS' B/B OR POTTED 3' O.C.
⊕	RHOENODENDRON CATAMBIENSIS ALBA HYBRID RHODODENDRON		4	B/B OR POTTED 3' O.C. WHITE FLOWER
⊕	AZALEA KURUME 'HIND-CRIMSON' HIND-CRIMSON AZALEA		11	B/B OR POTTED 3' O.C.
⊕	AZALEA KURUME 'PINK PEARL' PINK AZALEA		9	B/B OR POTTED 3' O.C.
⊕	JUNIPERUS SABINA TAMARISCIFOLIA TAMARIX JUNIPER		17	B/B OR POTTED 1' O.C.
⊕	CORNUS STOLONIFERA SERICEA RED OSIER DOGWOOD		13	B/B OR POTTED 5' O.C.
⊕	EVONYMUS ALATUS COMPACTUS DWARF WING EVONYMUS		7	B/B OR POTTED 3' O.C.
⊕	BERBERIS THUNBERGII JAPANESE BARBERRY		35	B/B OR POTTED 2' O.C.
⊕	RHUS TYPHINA STAGHORN SUMAC	3'-4'H.	39	B/B OR POTTED 3' O.C.
⊕	ELAEAGNUS ANGUSTIFOLIA RUSSIAN OLIVE		29	B/B OR POTTED 6' O.C.
	BEDDER ANNUALS & PERENNIALS			

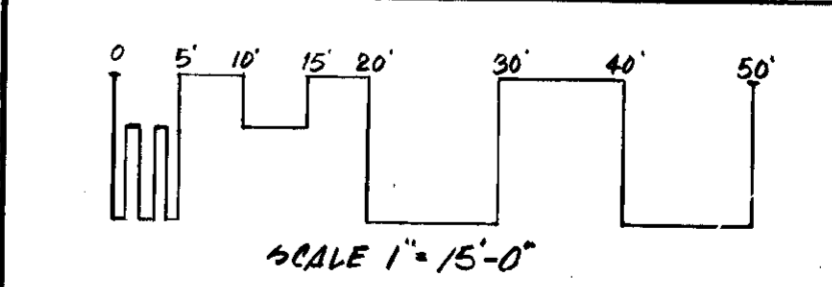


BENCH MOUNTING DETAIL
SCALE 1/2" = 1'-0"

NOTE: BENCHES ARE QUALITY INDUSTRIES, INC. MODELS 16 OR (C) LONG WITHOUT BACK, 1808 (WITH BACK 8' LONG), REDWOOD, HEAVY STEEL SUPPORTS. WIDTH OF PEDESTAL FOR MODEL 1808 MAY EXCEED 84" ADJUST CONCRETE TO ACCOMMODATE.



TREE GRATE MOUNTING (10 REQ'D)
SCALE 1" = 7'-0"



NOTE: TREE GRATE IS A NEENAH FOUNDRY CO. MODEL R-2640-A 180" SQUARE EXPANDABLE, 24" TREE OPENING.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 3-1-78
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 3-9-78
 DATE
 CHIEF DIVISION OF LAND DEVELOPMENT
 8-1-78
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR
 2-27-78
 DATE
 CHIEF BUREAU OF ENGINEERING
 2-24-78
 DATE

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel.(301)997-0810

MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL.(301)340-8705

DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 SEPT. 14, 1977
 DATE
 DIRECTOR

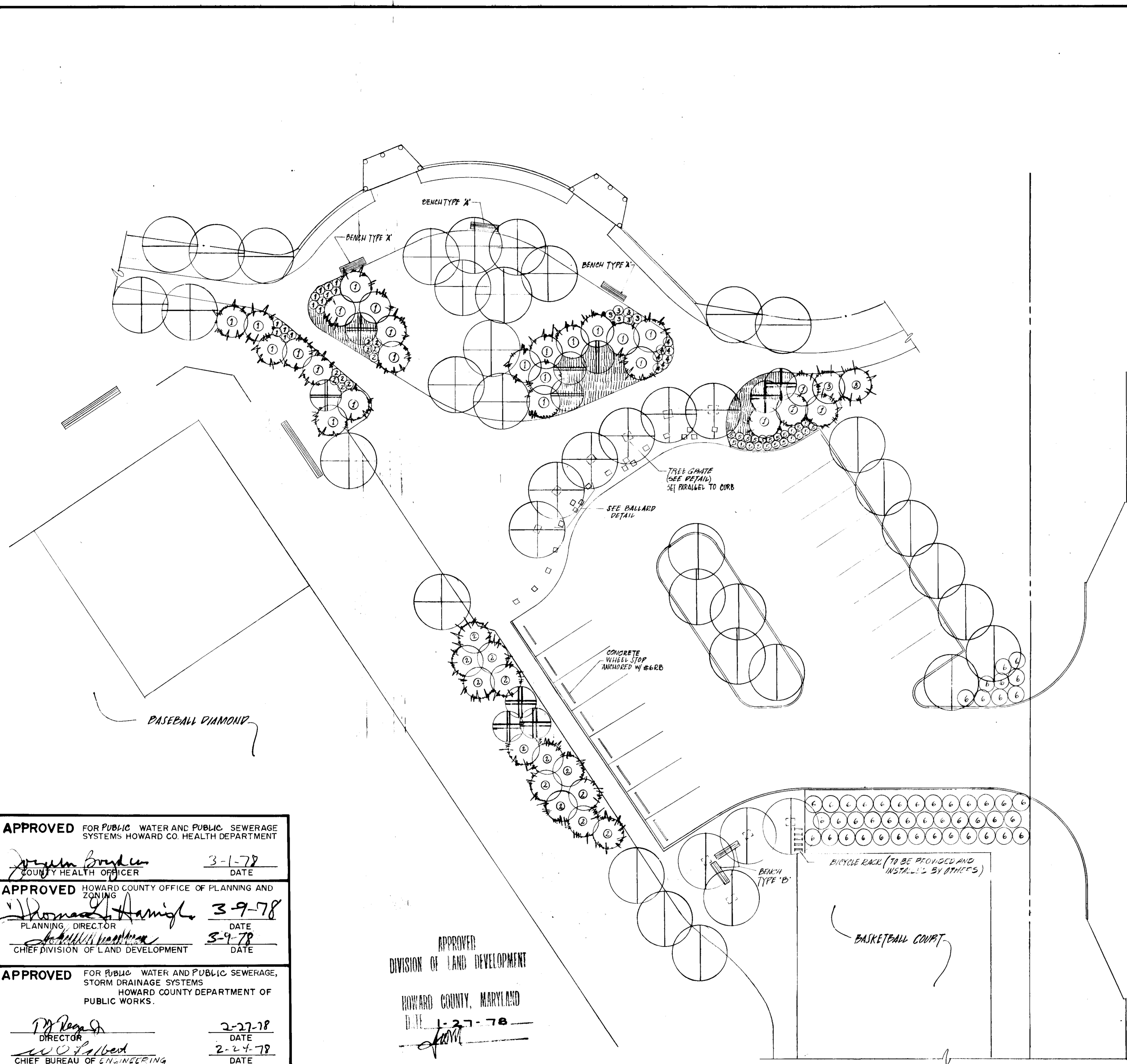
CAPITAL PROJECT 114-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT
 PLAN

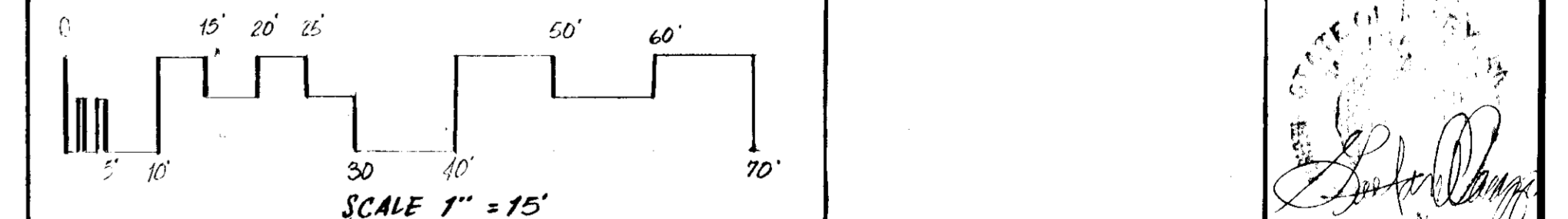
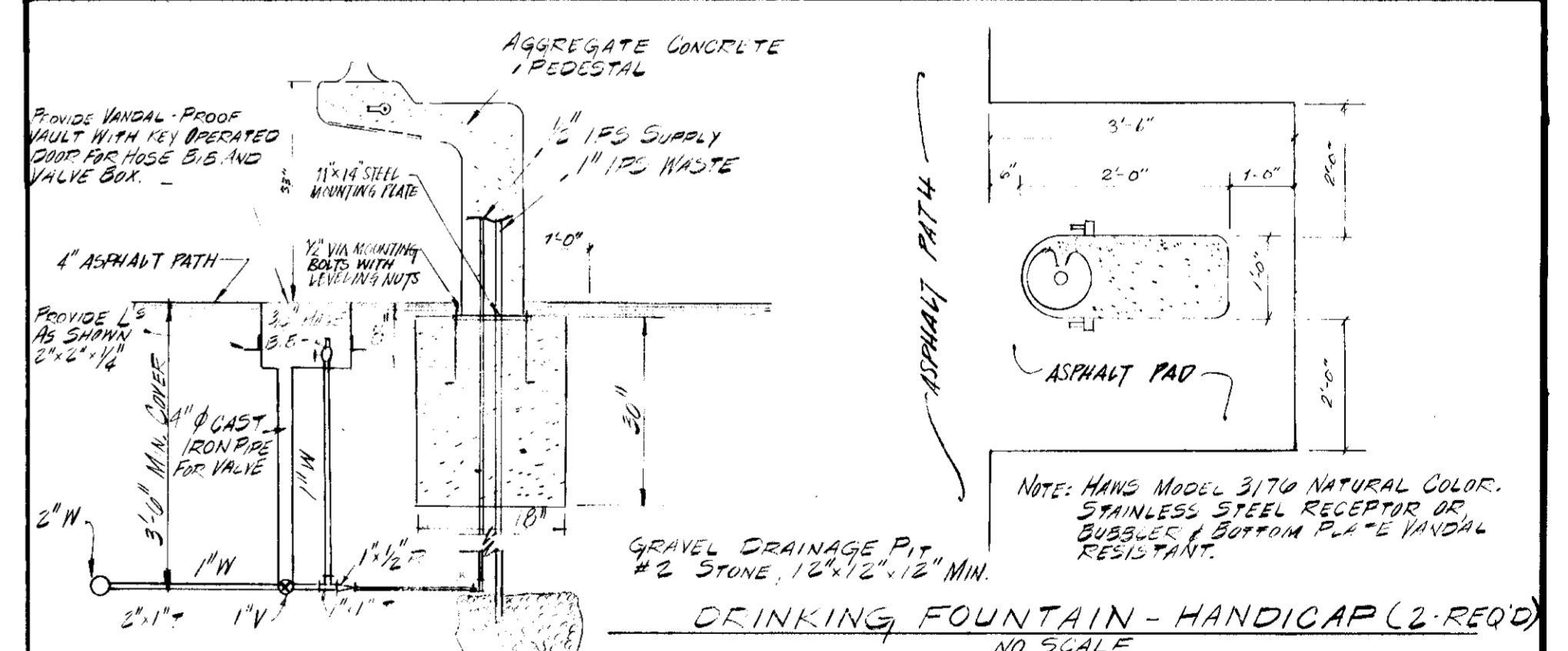
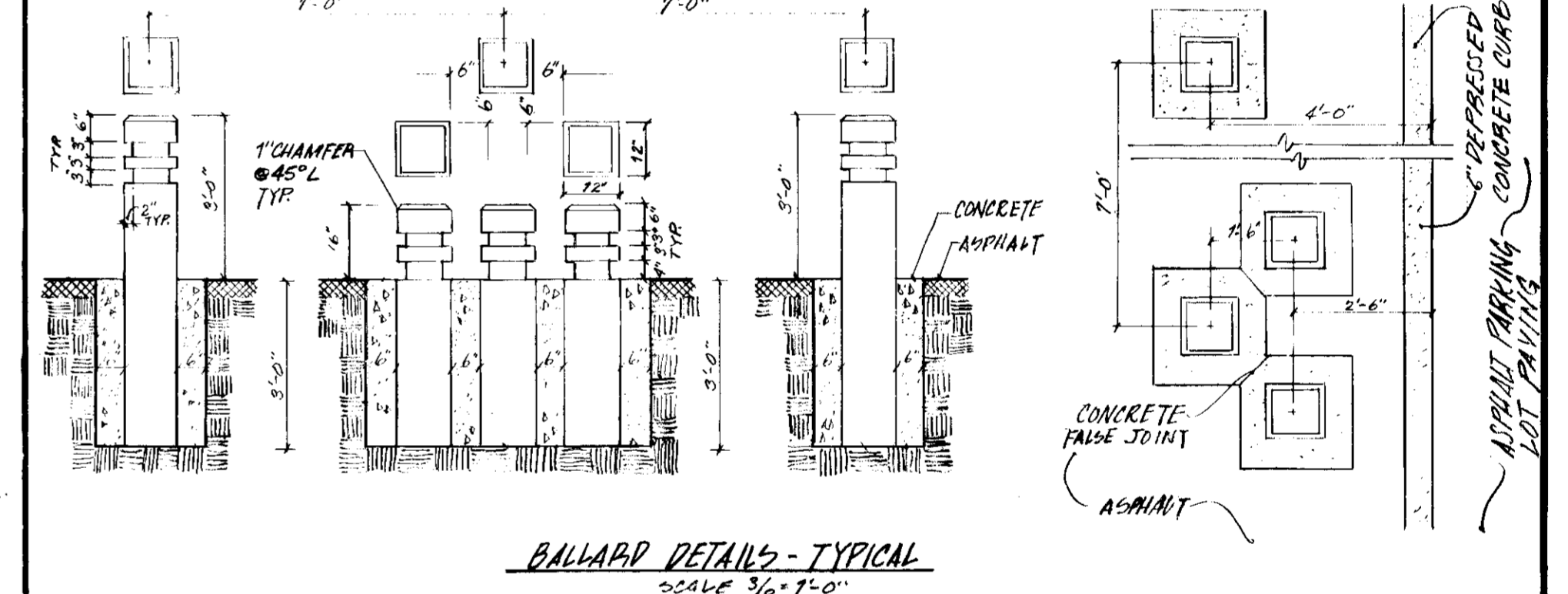
GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL A ELECTION DISTRICT NO. 6

DRAWING NO. 12 OF 13
 SCALE AS SHOWN

NOTE: NO PLANTINGS SHALL BE INCLUDED IN THE BASE BID.



KEY	PLANT NAME	SIZE	AMT	REMARKS
⊙	PLATANUS ACERIFOLIA LONDON PLANETREE		19	B/B, 15' O.C. OR AS SHOWN
⊕	QUERCUS BOREALIS NORTHERN RED OAK		19	B/B, 13' O.C. OR AS SHOWN
⊖	SALIX BABILONICA BABYLON WEeping WILLOW		5	B/B, 15' O.C.
⊗	CERCIS CANADENSIS AMERICAN REDBUD		2	B/B, 8' O.C.
⊘	CERCIS CANADENSIS ALBA WHITE AMERICAN REDBUD		1	B/B, 8' O.C.
⊕	MALUS FLOKIBUNDA JAPANESE FLOWERING CRAB		5	B/B, SPACE AS SHOWN
⊕	MAGNOLIA SOULANGENEA SAUCEUR MAGNOLIA		2	B/B, 6' O.C.
⊙	PINUS NIGRA AUSTRIAN PINE		25	B/B, 8' O.C.
⊙	PINUS STROBUS WHITE PINE		13	B/B, 8' O.C.
⊙	PINUS THUNBERGI JAPANESE BLACK PINE		3	B/B, 8' O.C.
①	RHOPILODENDRON CATAPMBIENES PROLEMA ELEGANS HYBRID RHOPILODENDRON		14	PINK FLOWER, B/B OR POTTED, 3' O.C.
②	RHOPILODENDRON CATAPMBIENES ALBA HYBRID RHOPILODENDRON		10	WHITE FLOWER, B/B OR POTTED, 3' O.C.
③	AZALEA KURUME 'LIND-CRIMSON' LIND-CRIMSON AZALEA		6	B/B OR POTTED, 3' O.C.
④	AZALEA KURUME 'PINK PEARL' PINK AZALEA		7	B/B OR POTTED, 3' O.C.
⑤	JUNIPERUS SABINA TAMARISCIFOLIA TAMARISK JUNIPER		22	B/B OR POTTED, 4' O.C.
⑥	COPALUS STOLONIFERA SERICEA RED CUTLER DOGWOOD		48	B/B OR POTTED, 5' O.C.
⊕	JUNIPERUS HORIZONTALIS 'BAR HARBOR' BAR HARBOR JUNIPER		170	POTTED, 2' O.C.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER 3-1-78 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR 3-9-78 DATE
 CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR 2-27-78 DATE
 CHIEF BUREAU OF ENGINEERING 2-24-78 DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 1-27-78

land plan associates
 suite 719 american city building
 columbia, maryland 21044 tel. (301)997-0810

MACRIS-FOWLER ASSOCIATES
 ENGINEERS, SURVEYORS, PLANNERS
 27 W. JEFFERSON ST. ROCKVILLE, MD. 20850 TEL. (301)340-8705

DEPARTMENT OF RECREATION & PARKS
 HOWARD COUNTY, MARYLAND
 SEPT. 16, 1977 DATE William Mitchell DIRECTOR

CAPITAL PROJECT NA-3038
 AGREEMENT NO. 77-13

SITE DEVELOPMENT
 PLAN

GREENBRIAR PARK
 TAX MAP 42 LIBER 768 FOLIO 602
 PARCEL A ELECTION DISTRICT NO. 6

DRAWING NO. 13 OF 13
 SCALE 1/8\"/>