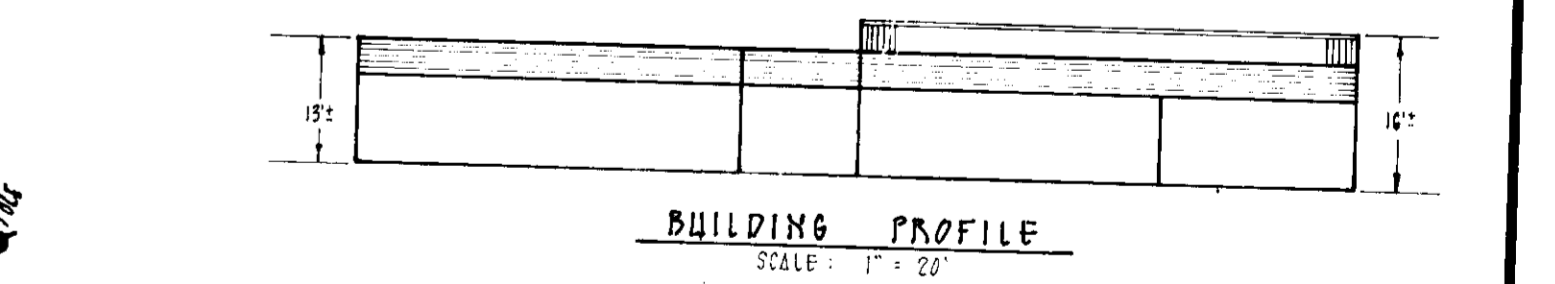
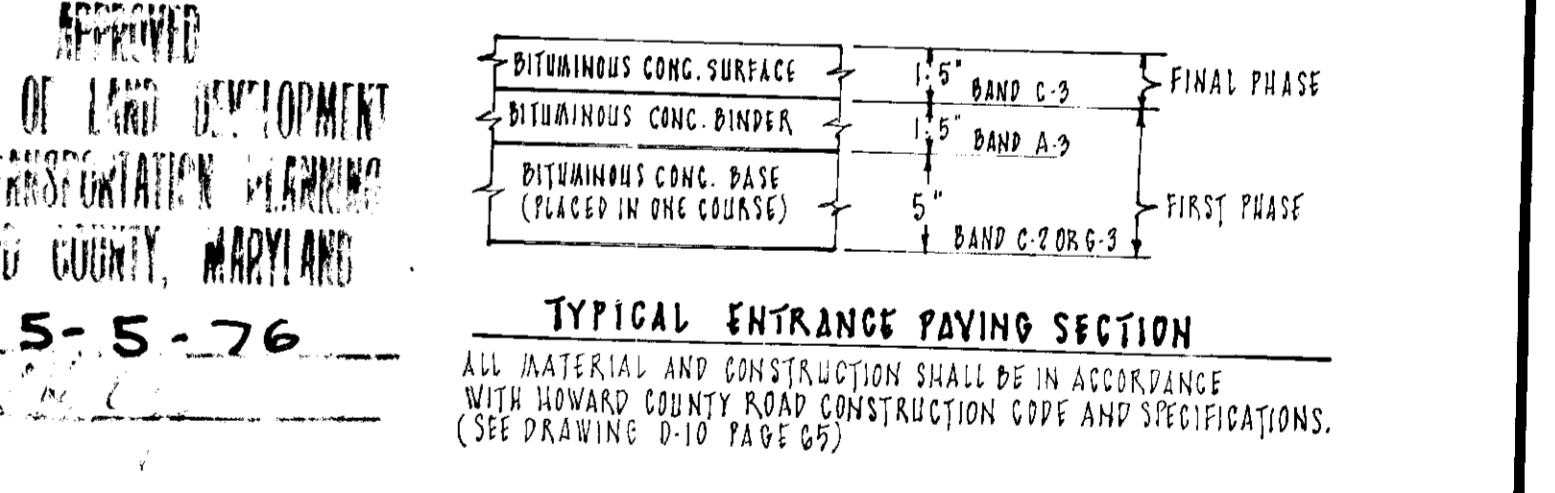
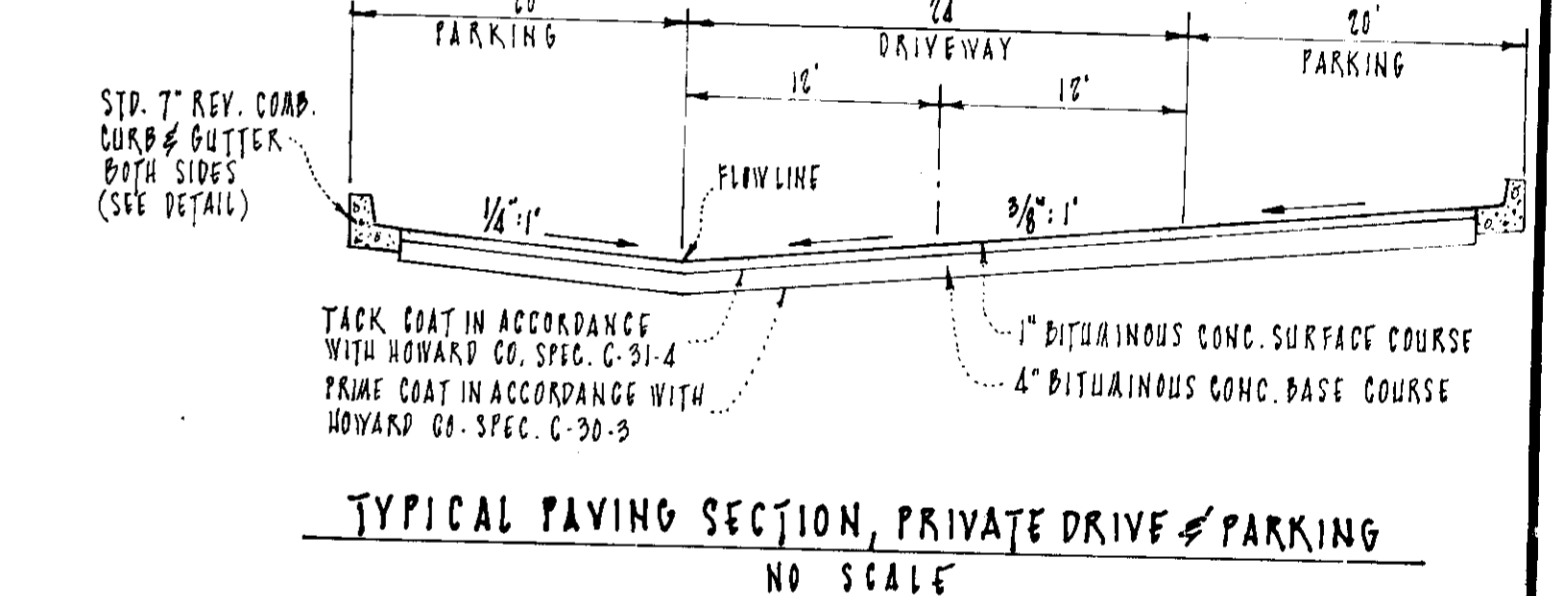


THE HOWARD RESEARCH & DEVELOPMENT CORP.  
PARCEL F-1  
TOWN CENTER  
SECTION 7 AREA 7  
P.B. 3459



THE HOWARD RESEARCH & DEVELOPMENT CORP.  
LAT 3  
TOWN CENTER  
SECTION 7 AREA 7

COLUMBIA OAKS CORP.  
LAT 2-3  
TOWN CENTER  
SECTION 7 AREA 7  
P.B. 23 F.5

BOARD OF APPEALS  
CASE # 804-C OCT. 7, 1974

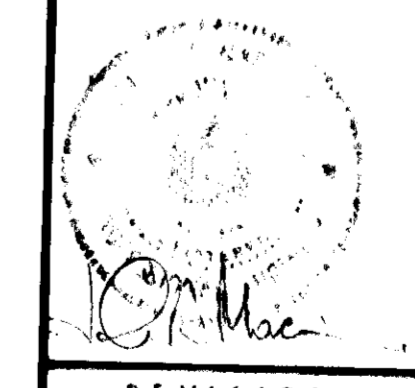
APPROVED SET BACK VARIANCES AND OPERATION OF SWIMMING POOL IN 12-20 DISTRICT.

NOTE:  
PHASE I COVERS TENNIS COURTS ONLY. PHASE II IS NOT APPROVED AT THIS TIME. NO BUILDINGS OR STRUCTURES, WITH THE EXCEPTION OF THE TENNIS COURTS AND APPURTENANCES AS SHOWN WITHIN THE LIMITS OF SUBMISSION FOR PHASE I, WILL BE CONSTRUCTED UNTIL THE CONDITIONS OF RECORDATION CONTAINED ON FINAL SUBDIVISION PLAT TITLED TOWN CENTER, SECTION 7, AREA 7, PARCELS E-1 & F-1, A RESUBDIVISION OF E & F AND RECORDED IN PLAT BOOK 3459 HAVE BEEN SATISFIED.

NOTE:  
STORM DRAINAGE SYSTEM ALONG VANTAGE POINT ROAD TO BE CONSTRUCTED BY THE DEVELOPERS OF TOWN CENTER SECTION 7, AREA 7, LOTS C1-3 AND D1-9. SYSTEM SHOWN AS EXISTING ON THESE PLANS.

NOTE:  
RIGHTS OF WAY FOR SEWER EXTENSION TO SERVE PARCEL E-1 HAVE BEEN PROVIDED THROUGH LOTS C1-3 AND D1-9 ALONG VANTAGE POINT ROAD BY RECORDED PLAT TOWN CENTER LOTS C1-3, D1-1, D1-2 AND D1-3 RECORDED IN PLAT BOOK 20 FOLIO 48.

OWNER/DEVELOPER:  
THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND  
21044



DEVELOPMENT PLAN  
WOODFORD NEIGHBORHOOD CENTER - PHASE I - TENNIS COURTS  
PARCEL E-1  
COLUMBIA  
TOWN CENTER  
SECTION 7, AREA 7, PLAT BOOK 3459  
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

REVISIONS		
NO.	DATE	BY

DESIGNED BY: J.K.F.  
DRAWN BY: J.K.F.  
CHECKED BY: J.K.F.  
DATE: 5/8/74  
73-604-B  
SHEET 1 OF 6

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*J. Howard* COUNTY HEALTH OFFICER 6/8/76 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*J. Howard* PLANNING DIRECTOR 6-21-76 DATE

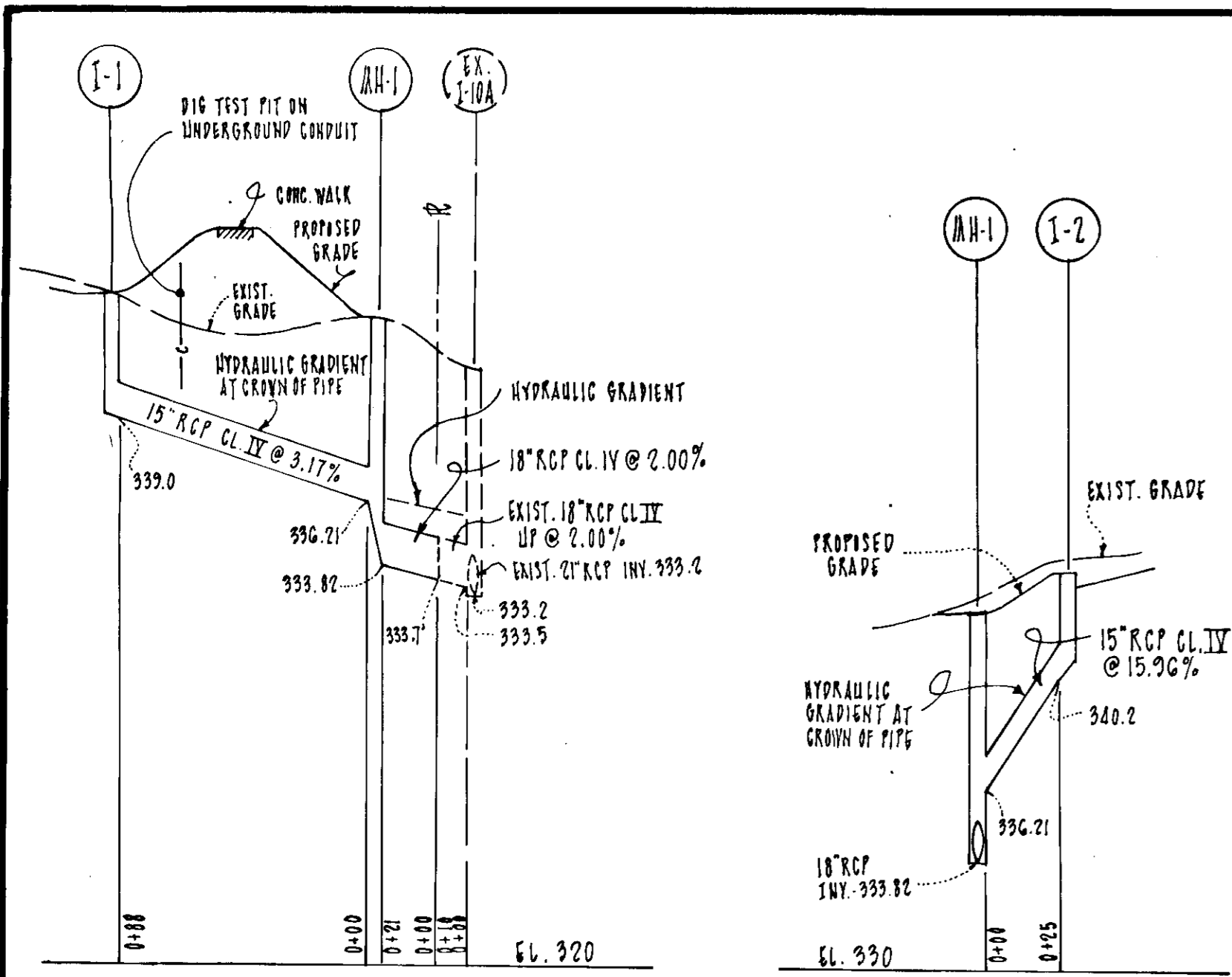
APPROVED DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
*J. Howard* CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING 6/21/76 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE; STORM DRAINAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*J. Howard* DIRECTOR 6-14-76 DATE

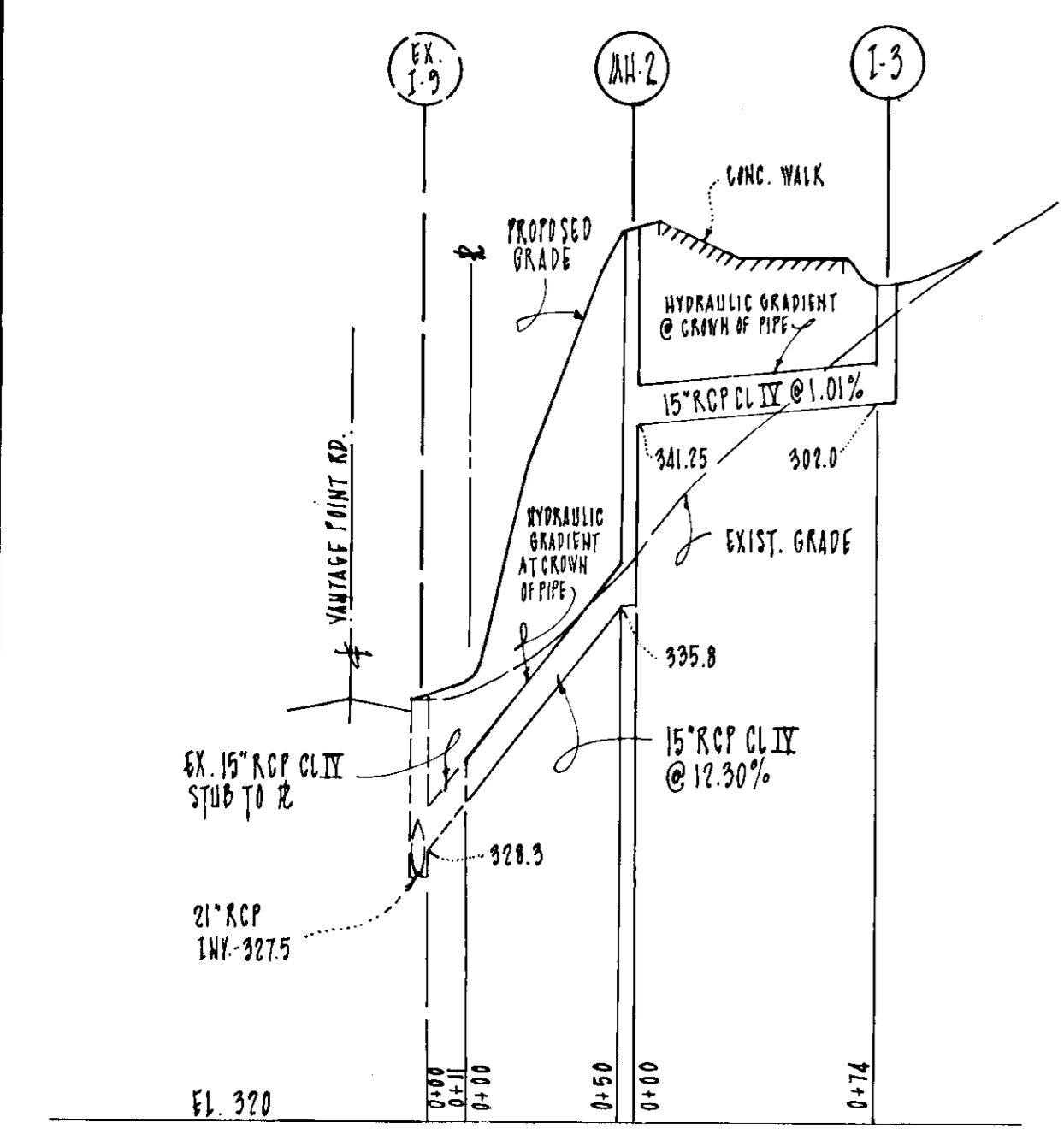
*J. Howard* CHIEF BUREAU OF HIGHWAYS 6/14/76 DATE

MACRIS-FOWLER ASSOCIATES  
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS  
27 W. JEFFERSON ST.  
ROCKVILLE, MD 20850  
(301) 742-3858

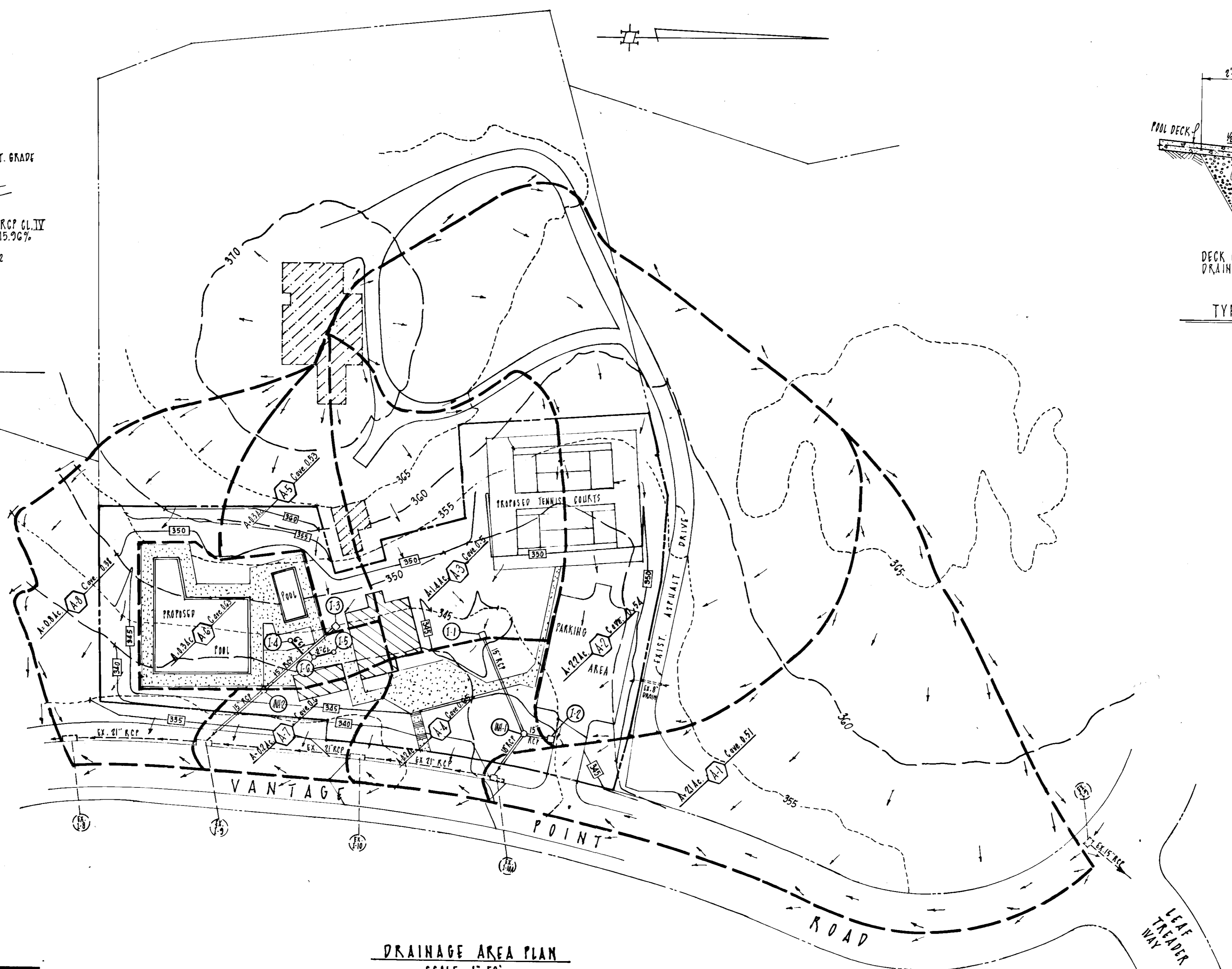
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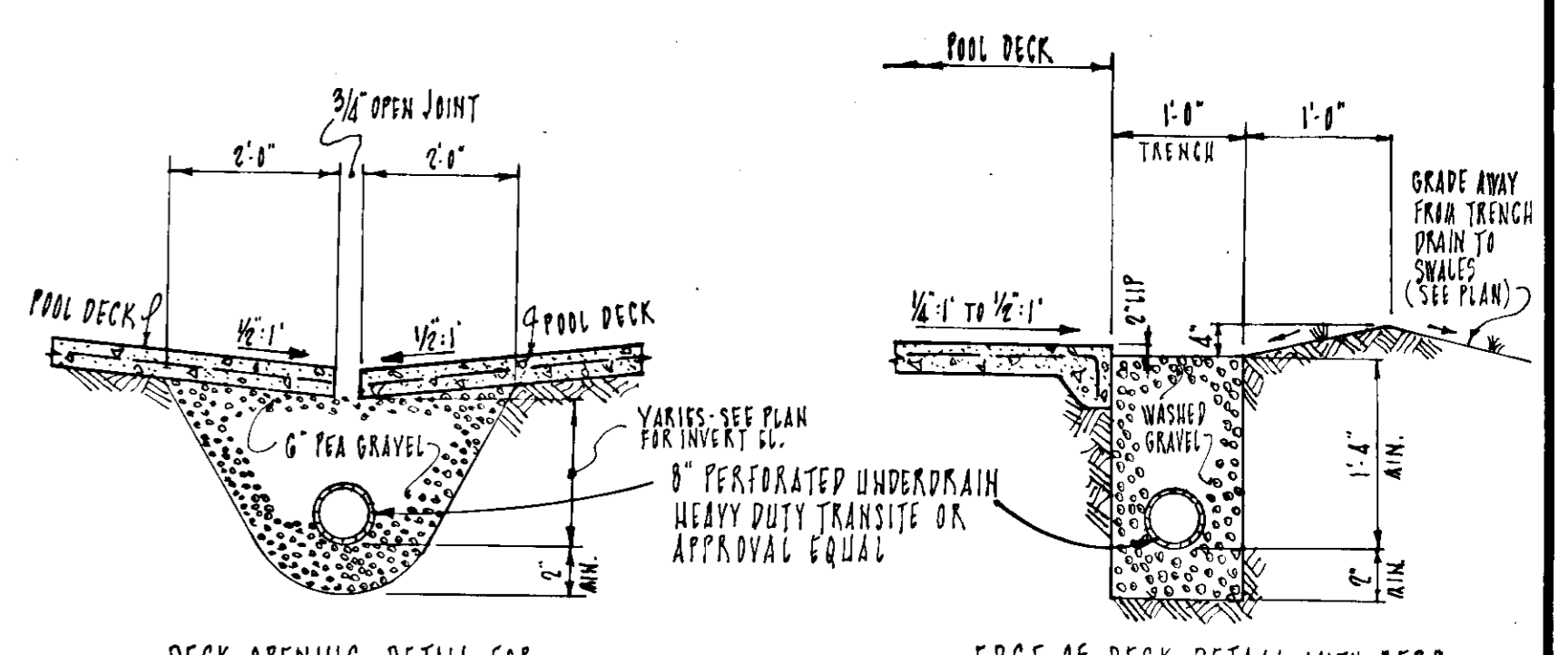
STORM DRAIN PROFILES  
SCALE: 1"=5' VERT. - 1"=50' HOR.



STORM DRAIN PROFILE  
SCALE: 1"=5' VERT. - 1"=50' HOR.



DRAINAGE AREA PLAN  
SCALE: 1"=50'



TYPICAL TRENCH DRAIN DETAIL AT POOL DECK  
NO SCALE

NO	TYPE	TOP ELEVATION		REMARKS	PIPE SCHEDULE		
		LOWER	UPPER		SIZE	TYPE	LENGTH
I-1	STD. CLASS 'S' SINGLE BRICK INLET	343.5		HOWARD CO. STD. DWG'D-98	15"	RCP CL. IV	237'
I-2	CLASS 'D-15' INLET	344.0	344.7	HOWARD CO. STD. DWG'D-64B	18"	RCP CL. IV	21'
I-3	STD. CLASS 'S' SINGLE BRICK INLET	345.8		HOWARD CO. STD. DWG'D-98	2"	CAST IRON	22'
I-4	TRUCK DRAIN	345.8		JCSAM # BTG-S	6"	CAST IRON	18'
I-5	FLOOR DRAIN	345.8		JCSAM # 7702	8"	PERFORATED HEAVY DUTY TRANSITE PIPE	660'
I-6	FLOOR DRAIN	345.8		JCSAM # 7702			
AH-1	SHALLOW MANHOLE	342.7		HOWARD CO. STD. DWG'D-99			
AH-2	STANDARD MANHOLE	347.0		HOWARD CO. STD. DWG'D-103			

**LEGEND**

- EXISTING CONTOURS (5' INTERVAL) - - - - - 365 - - - - - 360
- PROPOSED CONTOURS (5' INT. IN SITE) [360]
- PROPOSED SITE OUTLINE
- EXISTING PROPERTY LINE
- PROPOSED STORM DRAIN & INLET
- EXISTING STORM DRAIN & INLET
- PROPOSED BUILDING
- EXISTING BUILDING
- PROPOSED CONCRETE PAVING
- DRAINAGE AREA INCREMENT OUTLINE & FLOW DIRECTION

**RUNOFF COEFFICIENT LEGEND**

AREA	GRASSED AREA C=0.25	IMPERVIOUS AREA C=0.95	PROP. SCHOOL AREA C=0.50	TOTAL AREA	SUMMATION (A-C)	COMPOSITE C
A-1	4,950	4,950	82,760	91,460	47,045	0.51
A-2	8,700	19,050	74,050	95,800	51,840	0.54
A-3	8,700	4,950	47,920	60,970	30,490	0.50
A-4	4,950	4,950		8,700	5,660	0.65
A-5	2,175	2,175	8,700	13,050	6,970	0.53
A-6		8,700	4950(C=0.000)	13,050	8,280	0.63
A-7	4,950	4,950		8,700	5,230	0.60
A-8	2,830	2,170	4,950	34,830	11,930	0.33

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND RECONSTRUCTION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE: 5-5-76

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

*[Signature]* 6/18/76  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 6-21-76  
PLANNING DIRECTOR DATE

*[Signature]* 6/14/76  
CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

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

*[Signature]* 6-14-76  
*[Signature]* 6/14/76  
CHIEF BUREAU OF HIGHWAYS DATE

HOWARD  
Eric U. Herman 6/8/76

DRAINAGE AREA PLAN, DETAILS & PROFILES  
WOODFORD NEIGHBORHOOD CENTER - PHASE I - TENNIS COURTS  
PARCEL E-1  
COLUMBIA TOWN CENTER  
SECTION 7, AREA 7, PLAT BOOK FILED  
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

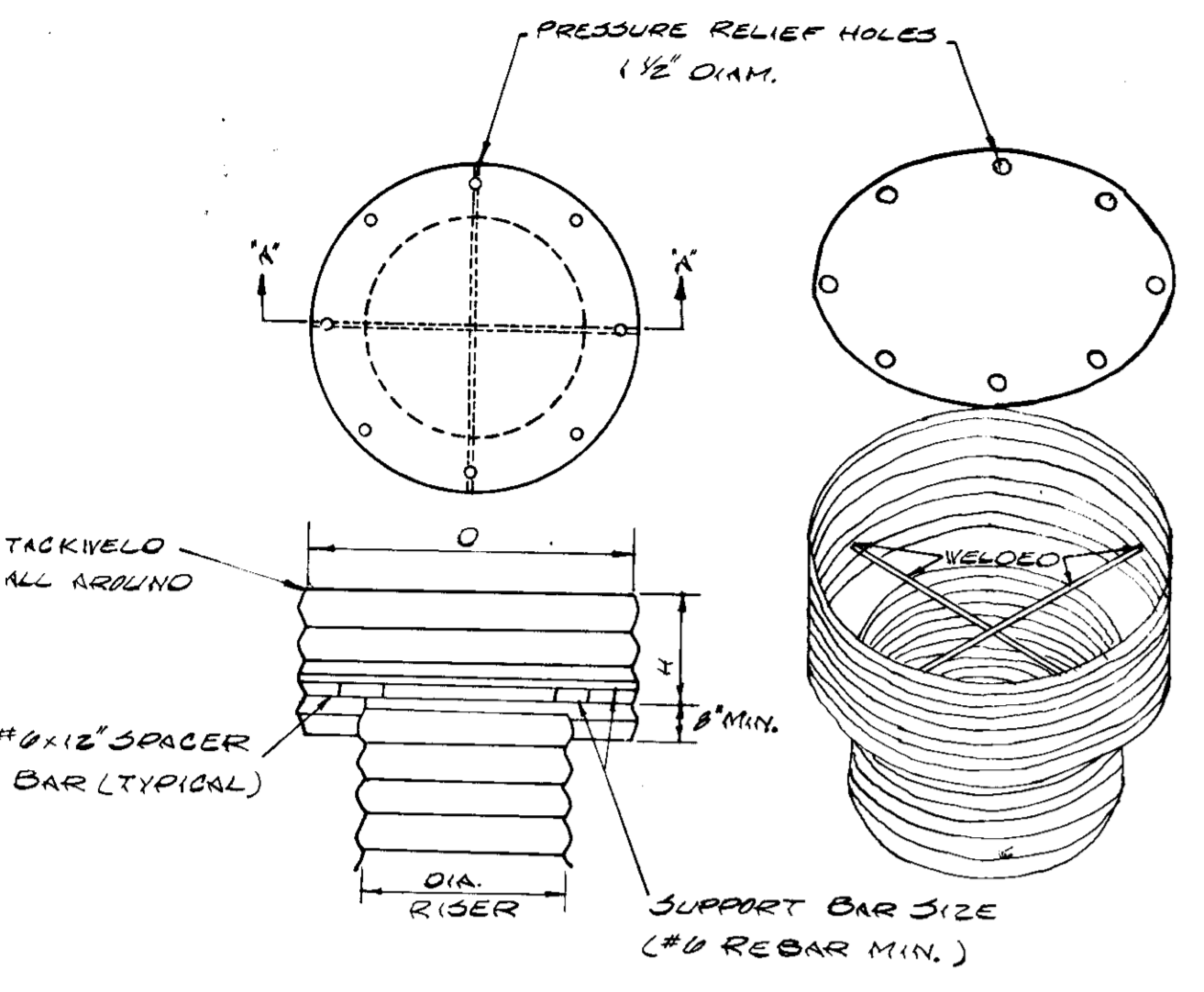
**MACRIS-FOWLER ASSOCIATES**  
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS  
27 W. JEFFERSON ST.  
ROCKVILLE, MD 20850  
(301) 762-3858

DESIGNED: JAF  
DRAWN: J.R.K.  
CHECKED: [Signature]  
DATE: 5/8/76  
DRAWING NO: 73-504-B  
SHEET 2 OF 6

REVISIONS  
NO. DATE BY

**NOTES**

- SITE PREPARATION**
- A. PRIOR TO SOODING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- B. WHERE THE SOIL IS AND OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 LBS PER 1000 S.F. IN ALL SOILS 30 POUNDS OF 5-10-5, OR EQUIVALENT, PER 1000 S.F. SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- C. LOW RELEASE NITROGEN AT THE RATE OF 35 LBS. N/1000 S.F. SHALL BE APPLIED TO THE PREPARED SOIL JUST PRIOR TO SOOD INSTALLATION. THIS MATERIAL SHALL BE APPROXIMATELY 1/3 IMMEDIATELY AVAILABLE AND 2/3 WATER INSOLUBLE (NITROGEN, UREA FORMALDEHYDE (LUF) AND ISOBUTYLIDENE UREA (IBDU)) MEET THESE STANDARDS.
- SOOD INSTALLATION**
- A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOOD SHALL LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOOD.
- B. THE FIRST ROW OF SOOD SHALL BE LAID IN A STRAIGHT LINE WITH SUB-ROD END RINGS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OUT THE ROOTS.
- C. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOOD BY TAMPING, AND PEGGING, OR OTHER APPROVED METHODS.
- D. AS SOODING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOOD PAD AND SOIL SURFACE BELOW THE SOOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING, AND IRRIGATING FOR ANY PIECE OF SOOD SHALL BE COMPLETED WITHIN EIGHT HOURS.
- SOOD MAINTENANCE**
- A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS DEEMED NECESSARY BY THE INSPECTOR DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO HELP PREVENT WILTING.
- B. AFTER THE FIRST WEEK, SOOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- C. FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOOD IS FIRMLY ROOTED AND MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
- D. MAINTENANCE OF ESTABLISHED SOOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 24-1.

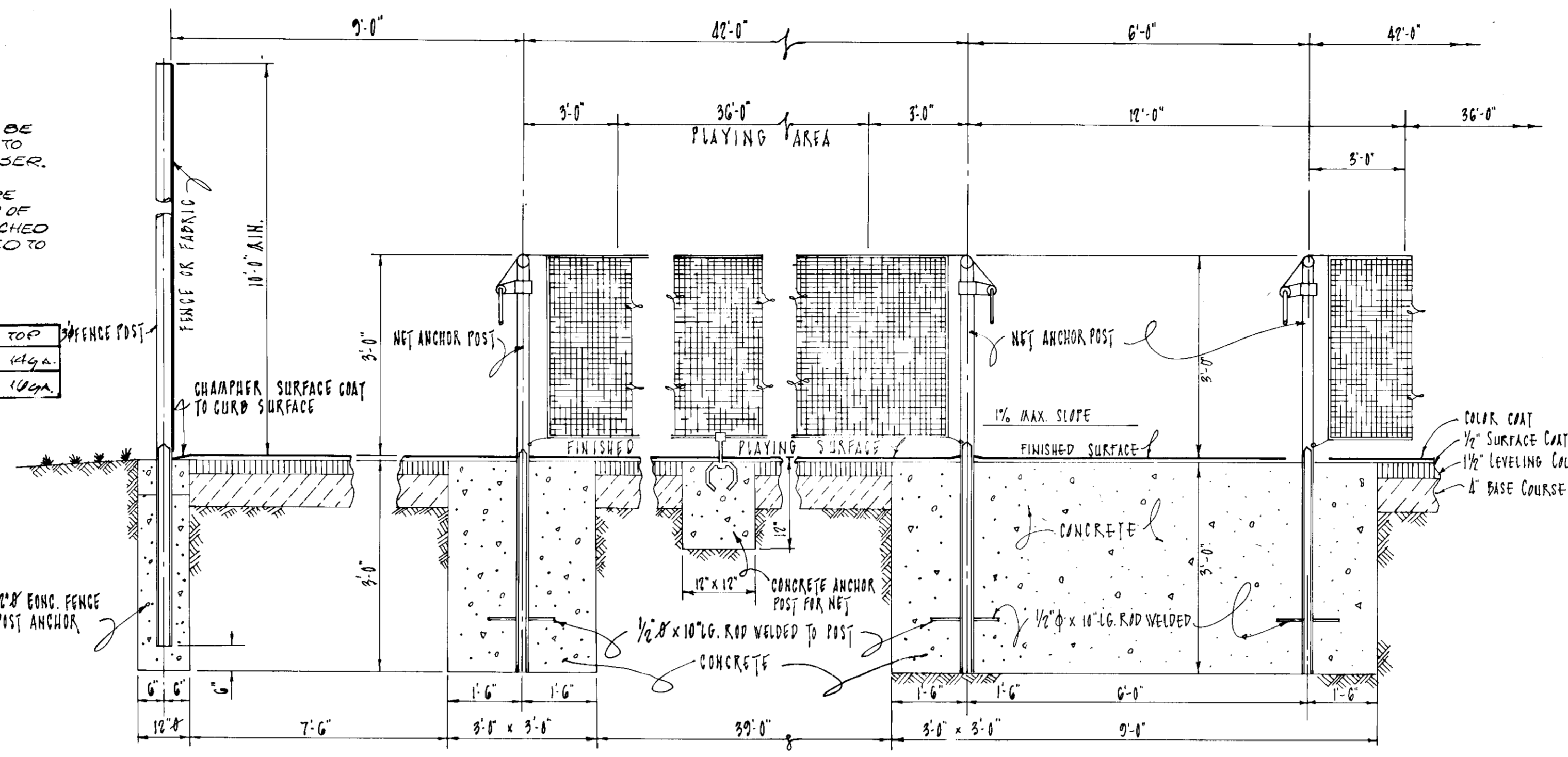


**NOTES:**

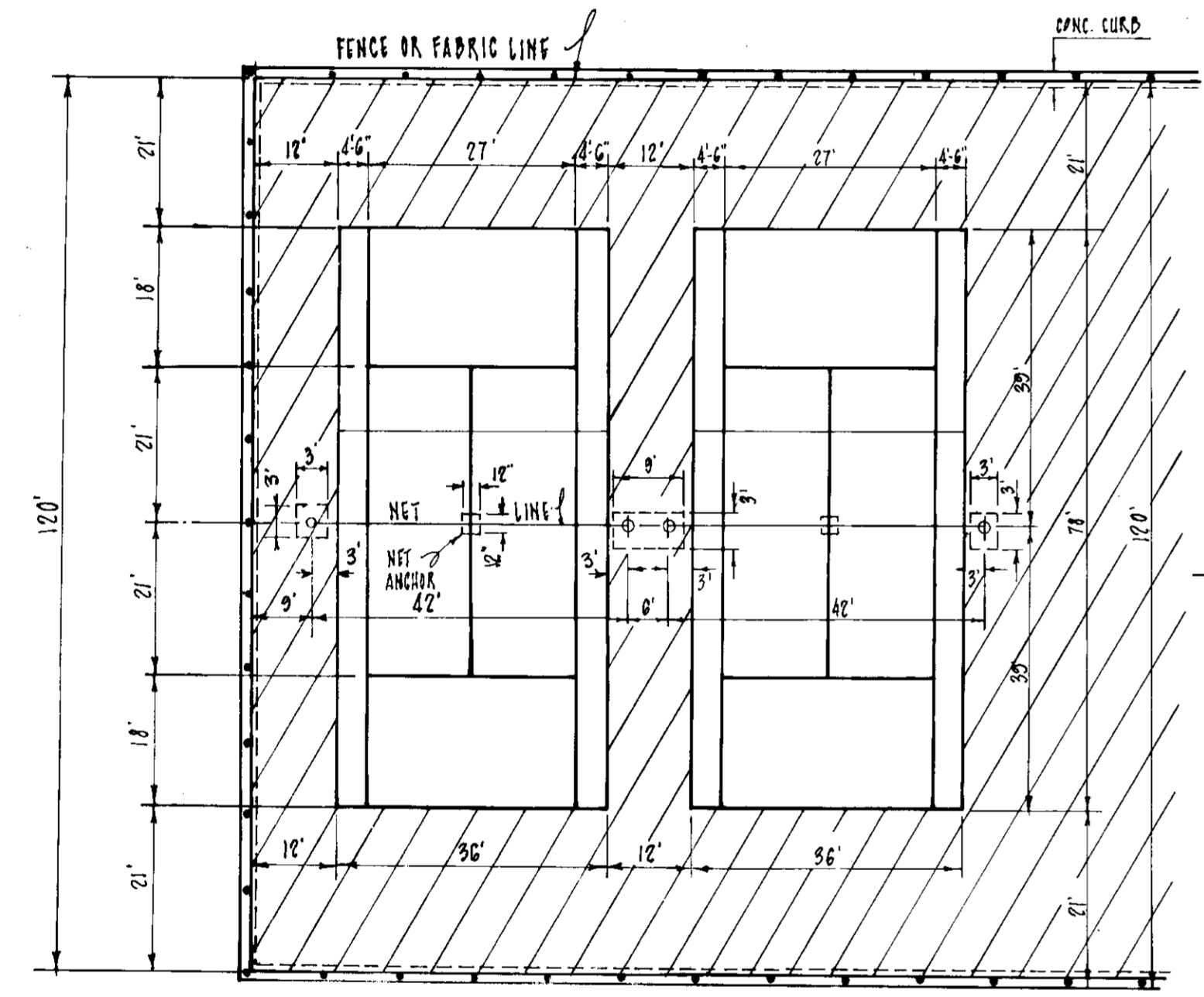
- THE CYLINDER MUST BE FIRMLY FASTENED TO THE TOP OF THE RISER.
- SUPPORT BARS ARE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO TOP OF RISER.

Basin	Q	H	GRADE	TOP	REFERENCE POST
1	30'	13'	10'	14ga	
2	21'	7'	10'	10ga	

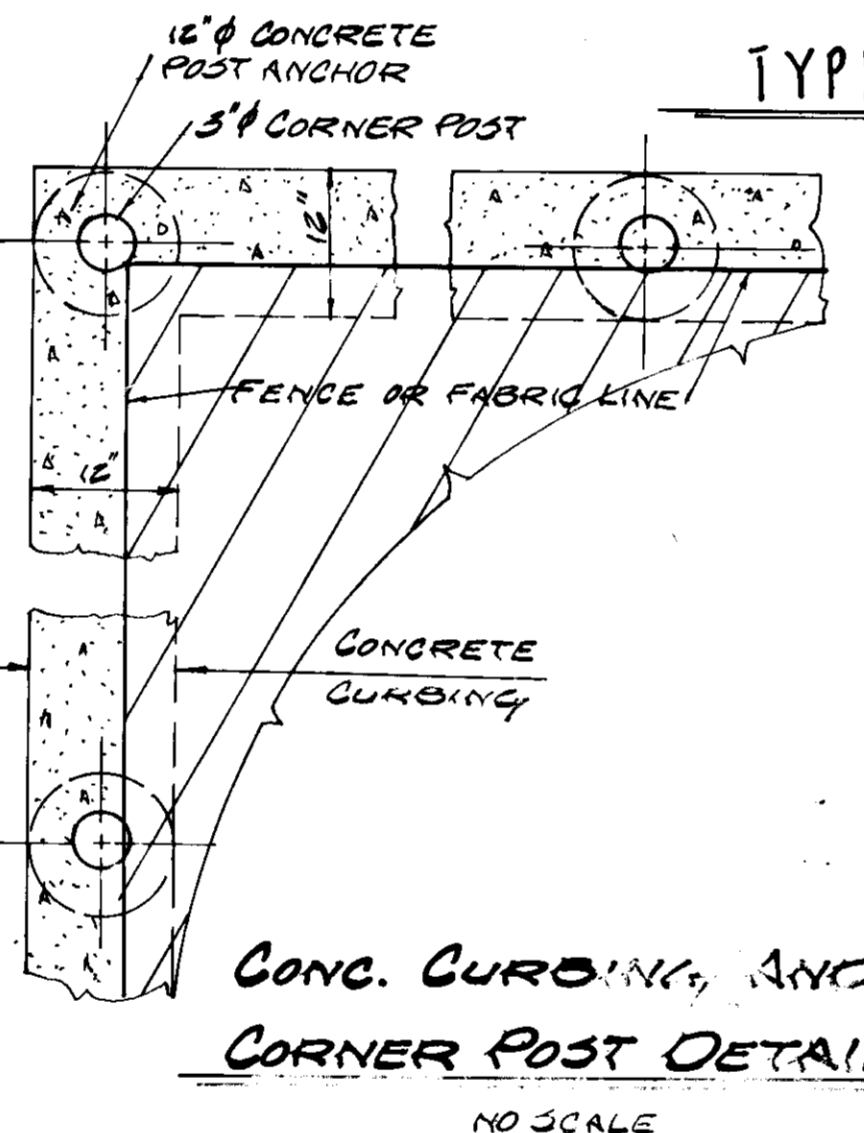
**TRASH RACK AND ANTI-VORTEX DEVICE**  
NO SCALE



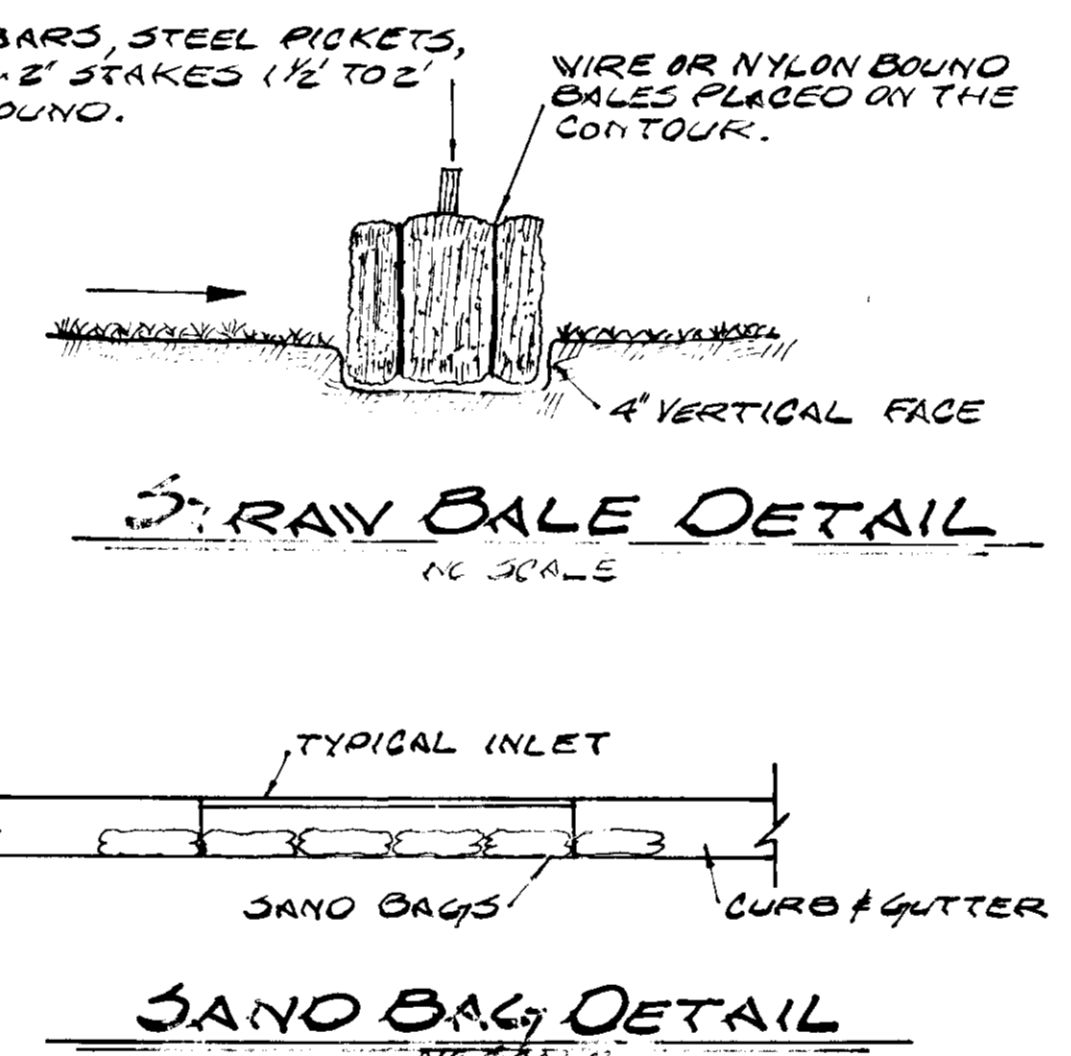
**TYPICAL COURT SECTION AT TENNIS NET LINE**  
NO SCALE



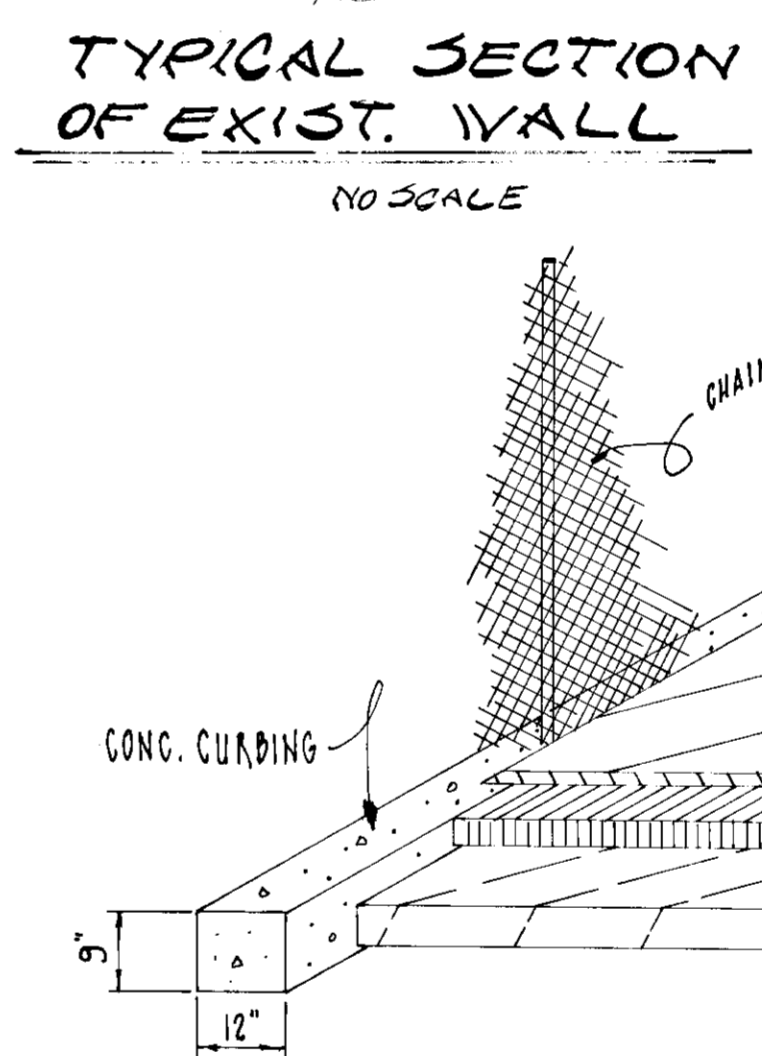
**TENNIS COURT LAYOUT AND COLOR SCHEME**  
NO SCALE



**CONC. CURBING AND CORNER POST DETAIL**  
NO SCALE



**STRAW BALE DETAIL**  
NO SCALE



**TYPICAL TENNIS COURT PAVING (ISOMETRIC)**

**SITE ANALYSIS**

TOTAL SITE = 1.870 AC. (82,587.10 S.F.)  
 DISTURBED AREA - PHASE I = .540 AC. (23,780 S.F.)  
 PHASE II = 1.3329 AC. (58,807 S.F.)  
 TOTAL = 1.8729 AC. (82,587.10 S.F.)

ROOFS & PAVEMENTS - PHASE I = .2823 AC. (12,600 S.F.)  
 PHASE II = .4844 AC. (21,213 S.F.)  
 TOTAL = .7667 AC. (33,813 S.F.)

AREA TO BE STABILIZED - PHASE I = .2107 AC. (9,178 S.F.)  
 PHASE II = .0463 AC. (20,533 S.F.)  
 TOTAL = .2570 AC. (11,311 S.F.)

AREA UNDISTURBED - PHASE I = 0  
 PHASE II = .0631 AC. (2,749 S.F.)  
 TOTAL = .0631 AC. (2,749 S.F.)

TOTAL LENGTH OF EARTH DIKE = 420 FT.  
 TOTAL LENGTH OF STRAW BALE DIKE = 80 FT.

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]*  
 SIGNATURE OF ENGINEER  
 6-17-74  
 DATE

**DEVELOPER'S CERTIFICATE**

I HEREBY 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 INSPECTIONS BY HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS THEY DEEM NECESSARY, DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]*  
 SIGNATURE OF DEVELOPER  
 11-24-75  
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]*  
 COUNTY HEALTH OFFICER  
 DATE 6/14/76

REVIEWED FOR HOWARD COUNTY AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]*  
 DATE 6/18/76

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR  
*[Signature]*  
 DATE 6/14/76

APPROVED FOR PUBLIC WATER AND PUBLIC SEWAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 SUPERVISOR  
*[Signature]*  
 DATE 6/14/76

APPROVED: PUBLIC WORKS  
 HOWARD COUNTY  
*[Signature]*  
 DATE 6/14/76

CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL DETAILS  
 WOODFORD NEIGHBORHOOD CENTER - PHASE I - TENNIS COURTS  
 PARCEL E-1  
**COLUMBIA TOWN CENTER**  
 SECTION 7, AREA 7, PLAT BOOK, FOLIO  
 5<sup>TH</sup> ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

DESIGNED: J.A. J.K.K.  
 DRAWN: J.K.K.  
 CHECKED: J.K.K.  
 DATE: 6/18/74

**MACRIS-FOWLER ASSOCIATES**  
 CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS  
 27 W. JEFFERSON ST.  
 ROCKVILLE, MD, 20850  
 (301) 762-2377

1. PLAN IS TO BE DONE IN TWO PHASES, PLEASE NOTE LIMITS OF PHASE I AND PHASE II

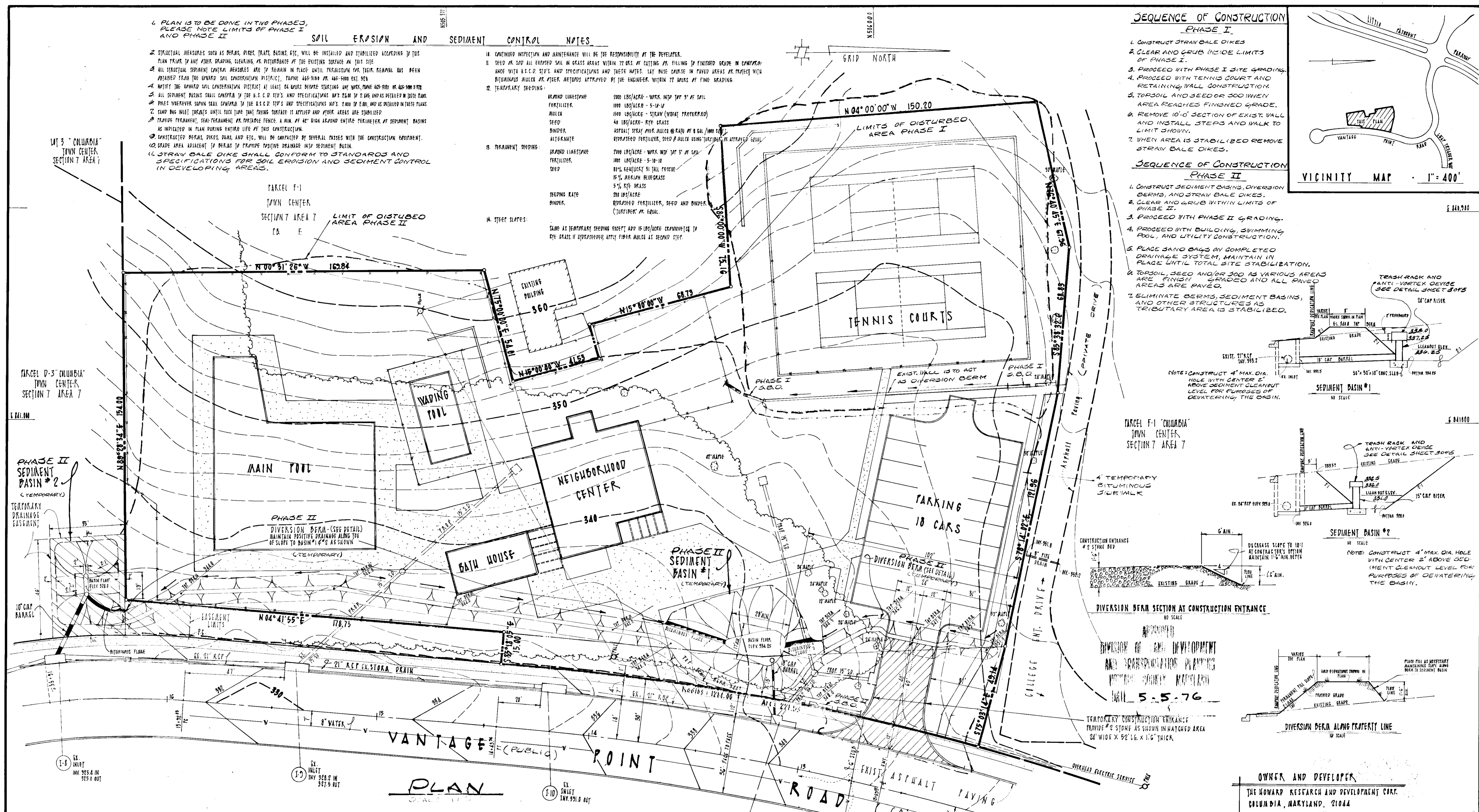
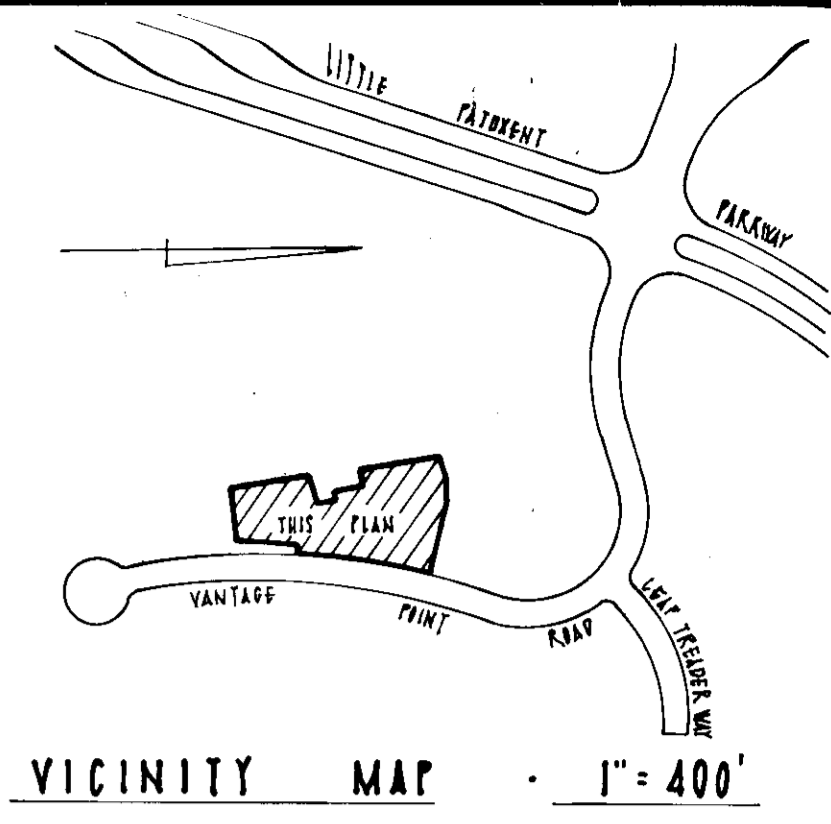
SOIL EROSION AND SEDIMENT CONTROL NOTES

- STRUCTURAL MEASURES SUCH AS BERMS, DIKES, TRAPS, BASINS, ETC. WILL BE INSTALLED AND STABILIZED ACCORDING TO THIS PLAN PRIOR TO ANY OTHER GRADING, CLEARING, OR DISTURBANCE OF THE EXISTING SURFACE ON THIS SITE.
- ALL STRUCTURAL SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL PERMISSIBLE FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT, PHONE 446-3100 OR 446-5000 EXT. 308.
- NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AT LEAST 60 DAYS BEFORE STARTING ANY WORK, PHONE 446-3100 OR 446-5000 EXT. 308.
- ALL SEDIMENT BASINS SHALL CONFORM TO THE U.S.C.D. STP'S AND SPECIFICATIONS NO'S. 2.60 TO 2.65 AND AS DETAILED IN THESE PLANS. HOWEVER, SLOPES SHALL CONFORM TO THE U.S.C.D. STP'S AND SPECIFICATIONS NO'S. 2.60 TO 2.60, AND AS DETAILED IN THESE PLANS.
- STAND BAG INLET TRAPS UNTIL TOUGH TOP SOIL SURFACE IS APPLIED AND OTHER AREAS ARE STABILIZED.
- TRAPPER PERMANENT, SEMI-PERMANENT OR PORTABLE FENCE, A MIN. OF 40" HIGH AROUND ENTIRE PERIMETER OF SEDIMENT BASINS AS INDICATED IN PLAN DURING ENTIRE LIFE OF THIS CONSTRUCTION.
- CONSTRUCTED BERMS, DIKES, TRAPS, AND ETC. WILL BE COMPLETED BY SEVERAL PASSES WITH THE CONSTRUCTION EQUIPMENT.
- GRADE AREA ADJACENT TO BERMS TO PROMOTE POSITIVE DRAINAGE INTO SEDIMENT BASIN.
- STRAW BALE DIKE SHALL CONFORM TO STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

- CONTINUED INSPECTION AND MAINTENANCE WILL BE THE RESPONSIBILITY OF THE DEVELOPER.
- SEED OR SOO ALL EXPOSED SOIL IN GRASS AREAS WITHIN 72 HRS. OF CUTTING OR FILLING TO FINISHED GRADE IN CONFORMANCE WITH U.S.C.D. STP'S AND SPECIFICATIONS AND THESE NOTES. LAY BASE COURSE IN PAVED AREAS OR PROJECT WITH BITUMINOUS MULCH OR OTHER METHODS APPROVED BY THE ENGINEER, WITHIN 72 HOURS OF FINISH GRADING.
- TEMPORARY SEEDING:
  - GRAND LIMESTONE FERTILIZER 2000 LBS/ACRE - WORK INTO TOP 3" OF SOIL
  - MULCH 1000 LBS/ACRE - 5-14-14
  - SEED 40 LBS/ACRE - STRAW (WHEAT) (PREFERRED)
  - BINDER 40 LBS/ACRE - RYE GRASS
  - ALTERNATE ASPHALT SPRAY OVER MULCH @ RATE OF 8 GAL/1000 SQ. FT. HYDROSEED FERTILIZER, SEED & MULCH USING TURFABLE OR ATTRACTIVE SOIL.
- PERMANENT SEEDING:
  - GRAND LIMESTONE FERTILIZER 2000 LBS/ACRE - WORK INTO TOP 3" OF SOIL
  - MULCH 1000 LBS/ACRE - 5-14-14
  - SEED 80% PERENNIAL 5% TALL FESCUE 15% MEXICAN BLUEGRASS 5% RYE GRASS 200 LBS/ACRE HYDROSEED FERTILIZER, SEED AND BINDER (TURFABLE OR EQUAL)
- STEEP SLOPES: SAME AS TEMPORARY SEEDING EXCEPT ADD 15 LBS/ACRE CRAYONITE TO RYE GRASS IF HYDROSEED, APPLY FIBER MULCH AS SECOND STEP.

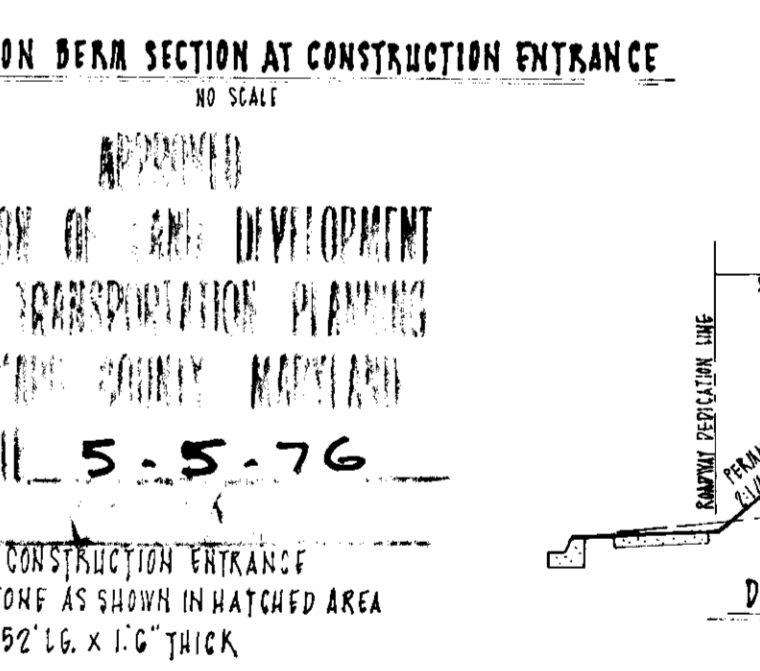
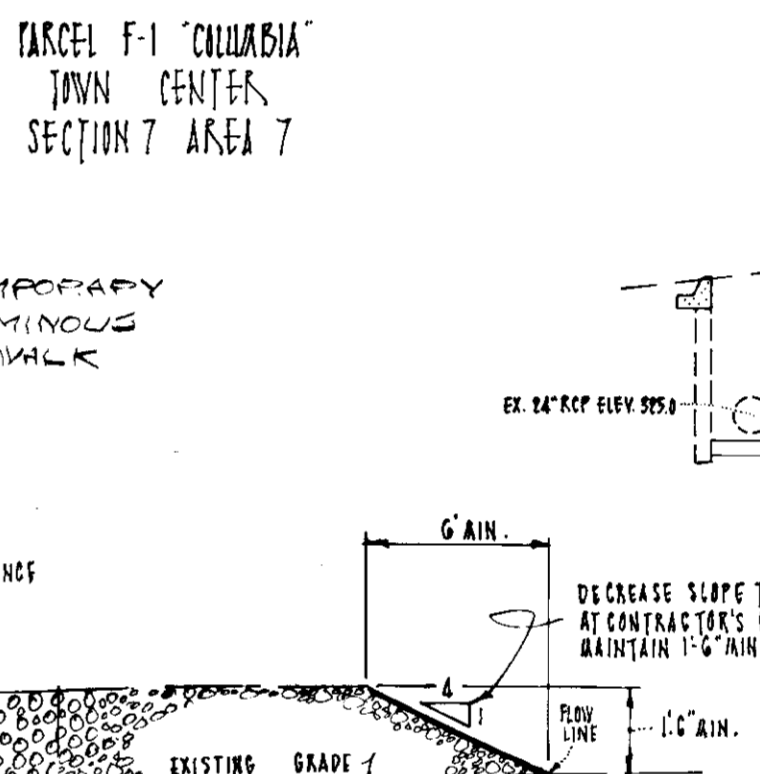
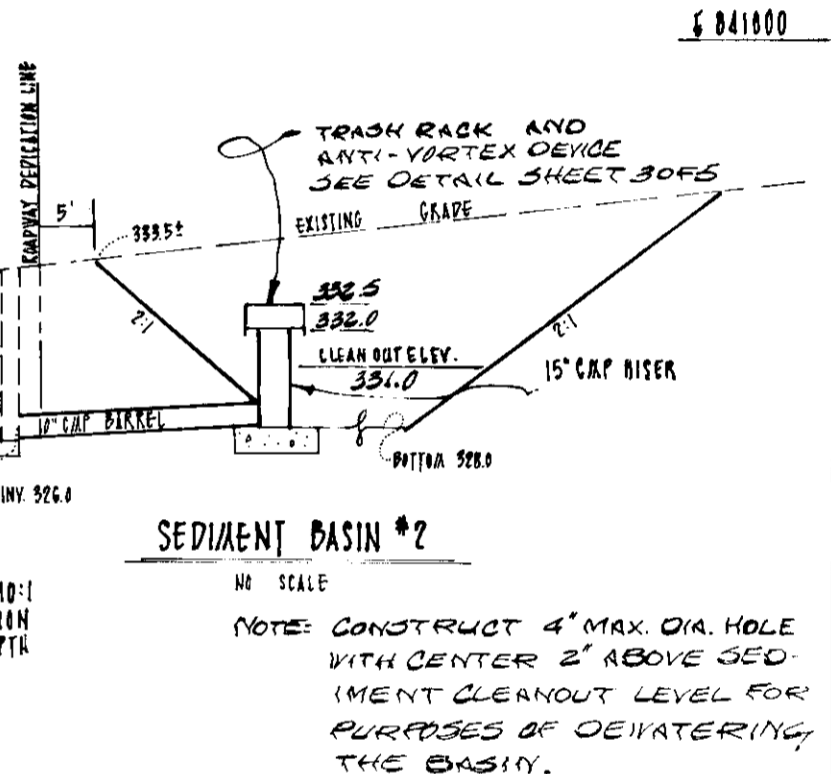
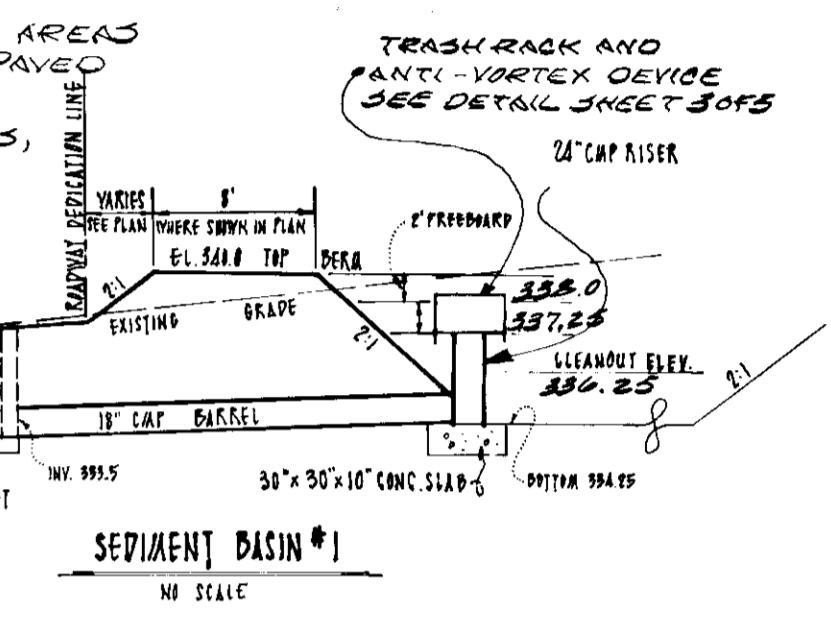
SEQUENCE OF CONSTRUCTION

- PHASE I**
- CONSTRUCT STRAW BALE DIKES
  - CLEAR AND GRUB WITHIN LIMITS OF PHASE I.
  - PROCEED WITH PHASE I SITE GRADING.
  - PROCEED WITH TENNIS COURT AND RETAINING WALL CONSTRUCTION.
  - TOPSOIL AND SEED OR SOO WHEN AREA REACHES FINISHED GRADE.
  - REMOVE 10'-0" SECTION OF EXIST. WALL AND INSTALL STEPS AND WALK TO LIMIT SHOWING.
  - WHEN AREA IS STABILIZED REMOVE STRAW BALE DIKES.
- PHASE II**
- CONSTRUCT SEDIMENT BASINS, DIVERSION BERMS, AND STRAW BALE DIKES.
  - CLEAR AND GRUB WITHIN LIMITS OF PHASE II.
  - PROCEED WITH PHASE II GRADING.
  - PROCEED WITH BUILDING, SWIMMING POOL, AND UTILITY CONSTRUCTION.
  - PLACE SAND BAGS ON COMPLETED DRAINAGE SYSTEM, MAINTAIN IN PLACE UNTIL TOTAL SITE STABILIZATION.
  - TOPSOIL, SEED AND/OR SOO AS VARIOUS AREAS ARE FINISH GRADED AND ALL PAVED AREAS ARE PAVED.
  - ELIMINATE BERMS, SEDIMENT BASINS, AND OTHER STRUCTURES AS TRIBUTARY AREA IS STABILIZED.



SEQUENCE OF CONSTRUCTION

- PHASE I**
- CONSTRUCT SEDIMENT BASINS, DIVERSION BERMS, AND STRAW BALE DIKES.
  - CLEAR AND GRUB WITHIN LIMITS OF PHASE I.
  - PROCEED WITH PHASE I GRADING.
  - PROCEED WITH BUILDING, SWIMMING POOL, AND UTILITY CONSTRUCTION.
  - PLACE SAND BAGS ON COMPLETED DRAINAGE SYSTEM, MAINTAIN IN PLACE UNTIL TOTAL SITE STABILIZATION.
  - TOPSOIL, SEED AND/OR SOO AS VARIOUS AREAS ARE FINISH GRADED AND ALL PAVED AREAS ARE PAVED.
  - ELIMINATE BERMS, SEDIMENT BASINS, AND OTHER STRUCTURES AS TRIBUTARY AREA IS STABILIZED.



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

*W. V. Vazarian* 6/18/76  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Thomas J. Vazarian* 6-21-76  
PLANNING DIRECTOR DATE

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

*J. F. Keegan Jr.* 6-14-76  
DIRECTOR DATE

*D. P. McLeod* 6/14/76  
CHIEF BUREAU OF HIGHWAYS DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

*Eric V. Herman* 6/8/76  
SIGNATURE DATE

D.S. SOIL CONSERVATION SERVICE

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

APPROVED: *Robert J. Zehms* 6/17/76  
HOWARD S.C.D. DATE

STRAW BALE DIKE 380

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*J.C.A.M.* 6/17/76  
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY 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 INSPECTIONS BY HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS THEY DEEM NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Walter Woodruff* 11-24-75  
SIGNATURE OF DEVELOPER DATE

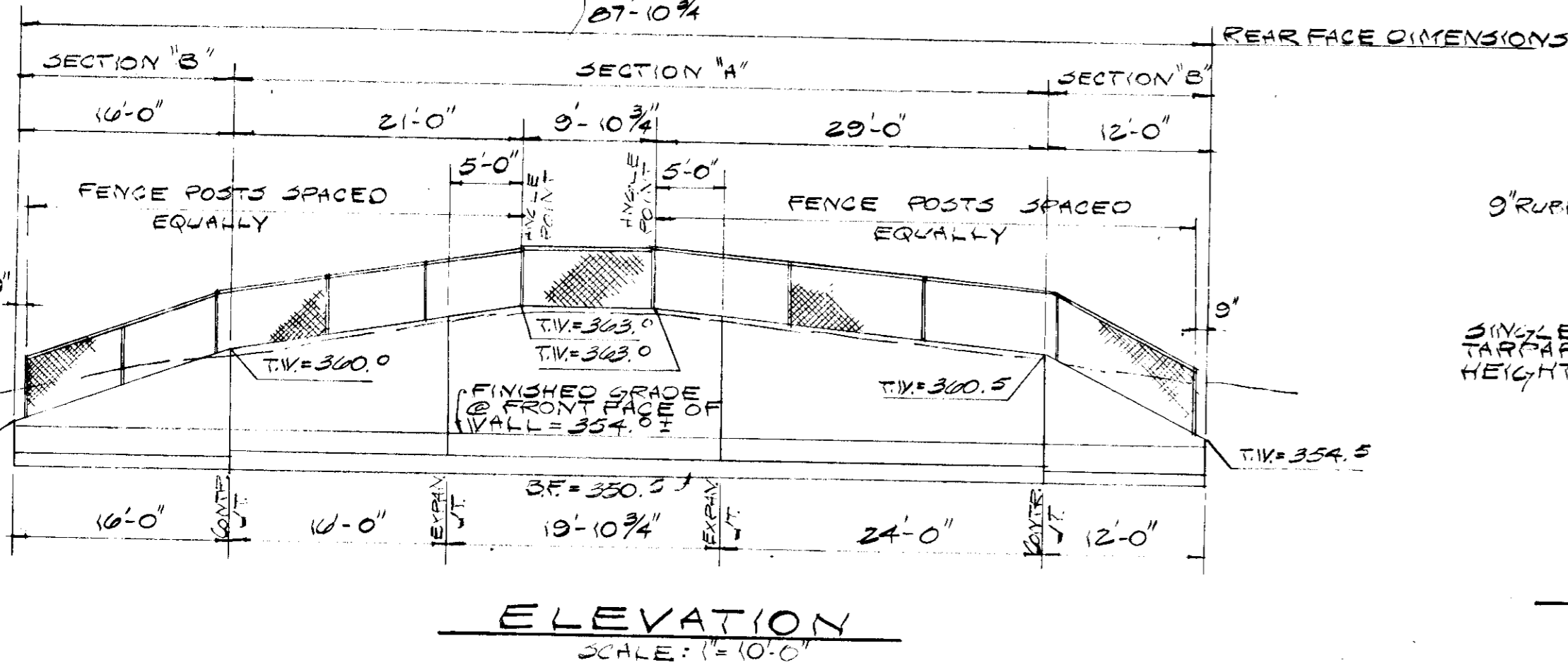
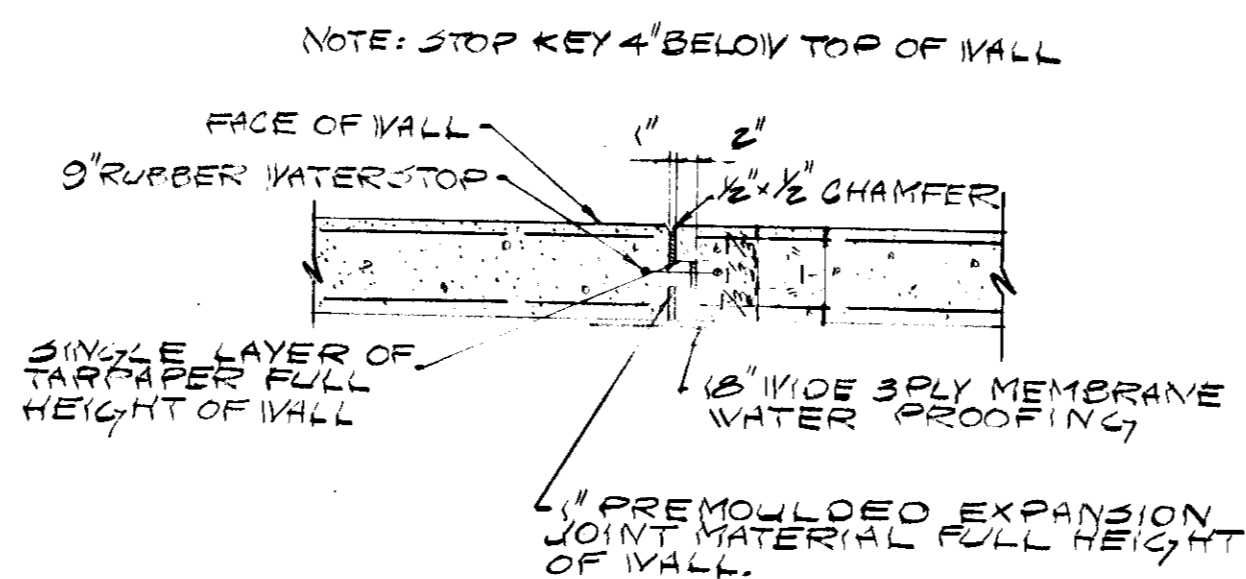
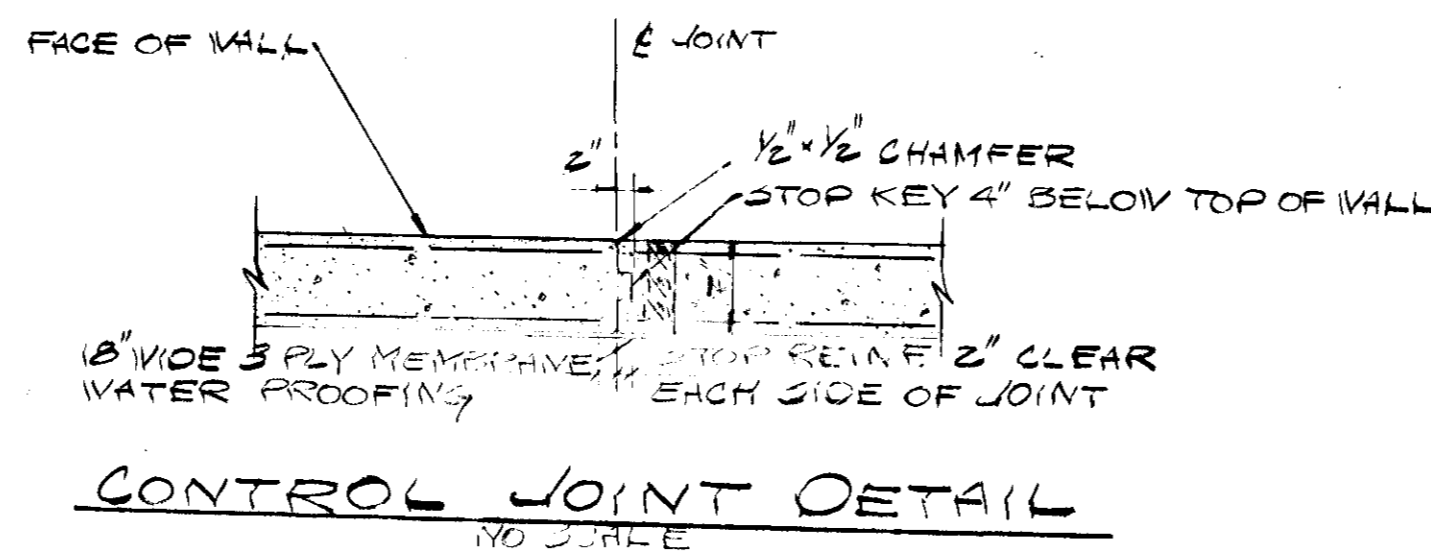
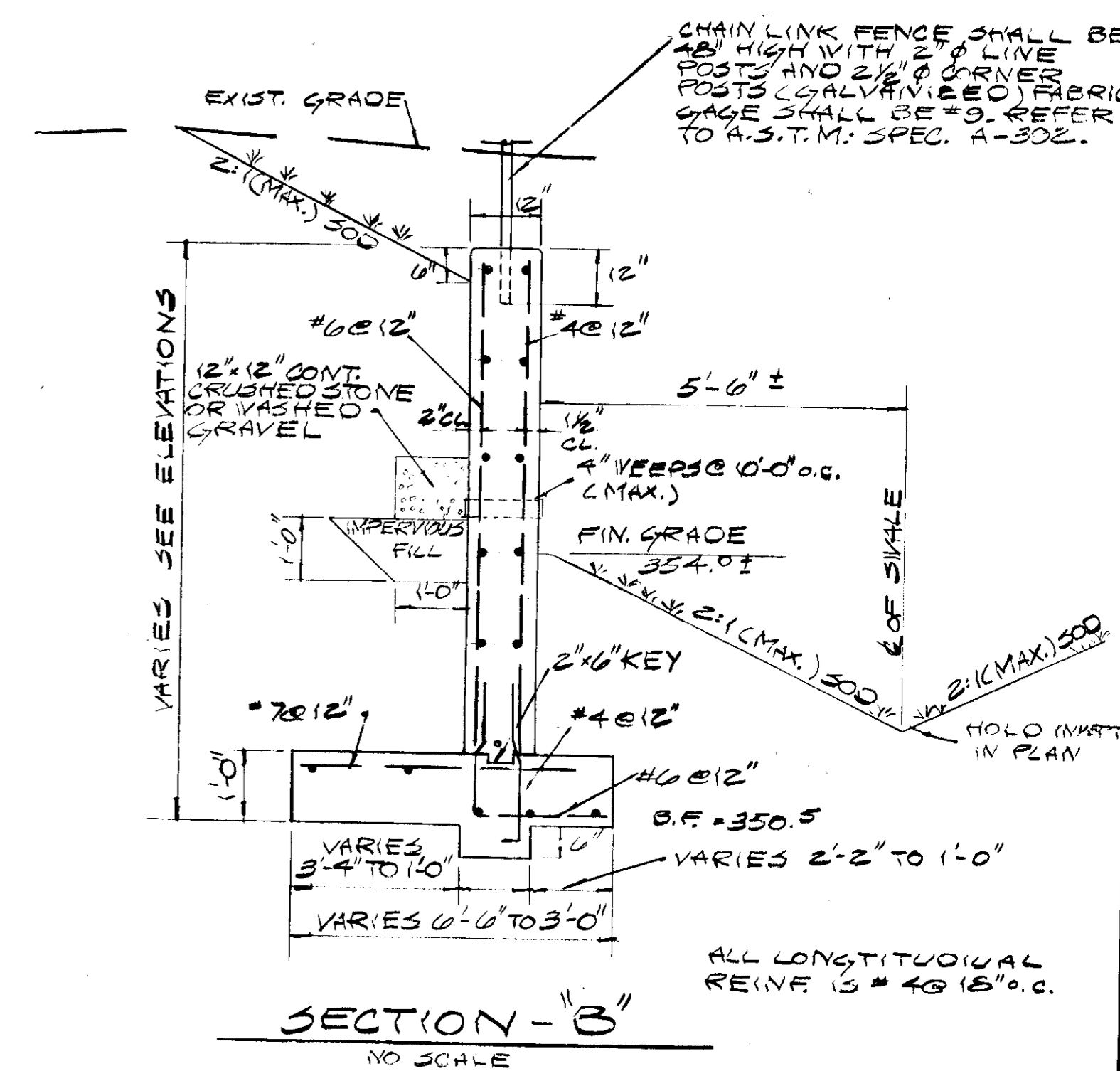
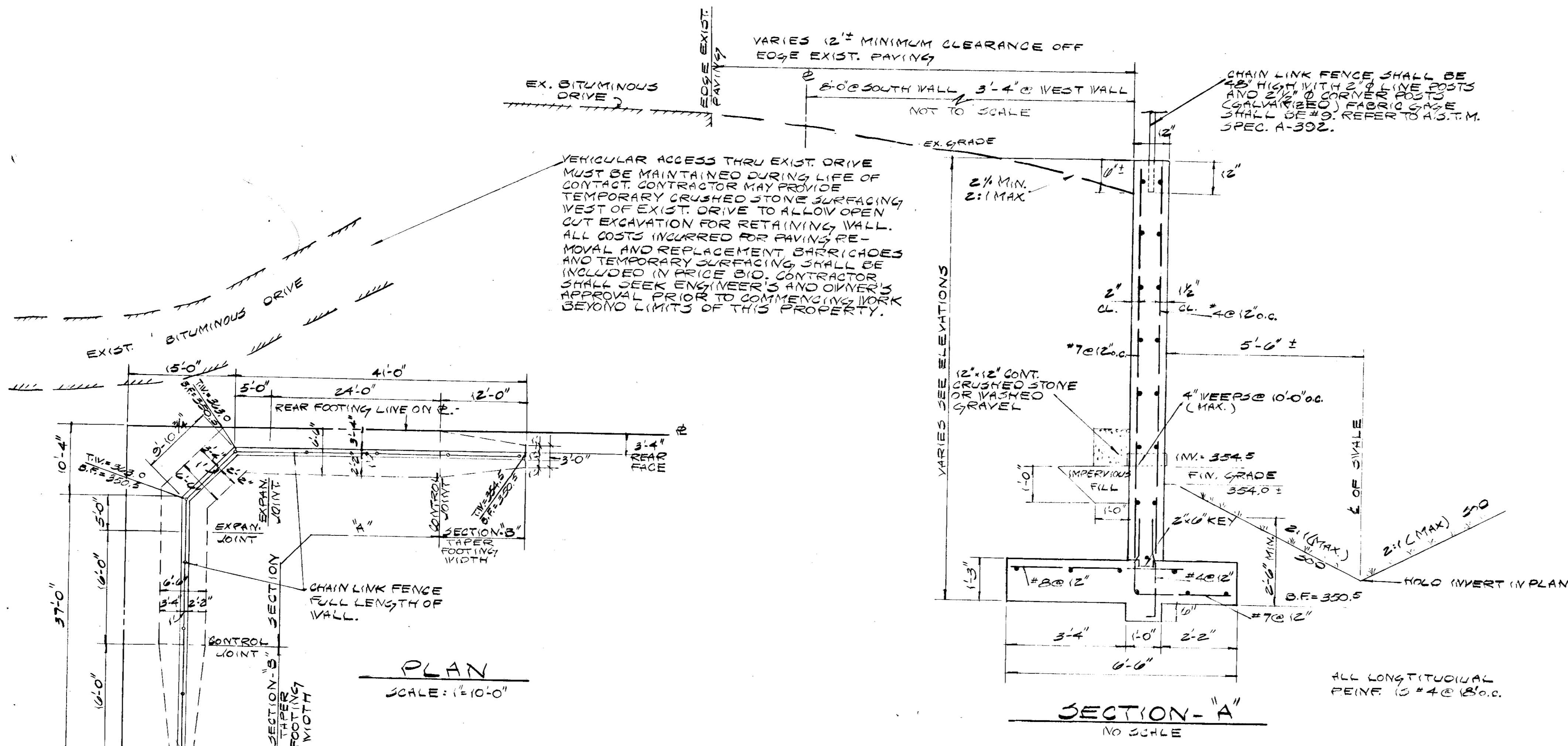
OWNER AND DEVELOPER  
THE HOWARD RESEARCH AND DEVELOPMENT CORP.  
COLUMBIA, MARYLAND, 21084

SOIL EROSION AND SEDIMENT CONTROL PLAN  
WOODFORD NEIGHBORHOOD CENTER - PHASE I - TENNIS COURTS  
PARCEL F-1  
COLUMBIA TOWN CENTER  
SECTION 7, AREA 7, FLAT BOOK, FLUID  
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

DESIGNED BY *JAF* DRAWN BY *JAK*  
CHECKED BY *WV* DATE 5/8/74  
DATE 7/3/74  
DRAWING NO. 73-504-B  
SHEET 4 OF 6

MACRIS-FOWLER ASSOCIATES  
CIVIL-STRUCTURAL ENGINEERS; SURVEYORS; PLANNERS  
27 W. JEFFERSON ST.  
ROCKVILLE, MD 20850  
(301) 742-3858

CC# A-7-11-74437 SDP-76-03C



**GENERAL NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION.
- BOTTOM OF FOOTINGS SHALL EXTEND A MIN. OF 1'-0" INTO EXISTING GROUND, IF CONDITIONS WARRANT. BOTTOM OF FOOTING ELEVATIONS OTHER THAN THOSE GIVEN IN PLANS, CONTACT MACRIS-FOWLER #3300, 340-8705.
- ASSUMED SOIL VALUE = 3000 P.S.F. NOTIFY MACRIS-FOWLER #3300 FOR FOOTING INSPECTIONS PRIOR TO POURING CONCRETE.
- ALL REINFORCING SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A-615-60 (CYL. 60,000 P.S.I.). ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI-318). ALL REINFORCING TO BE INSPECTED BY MACRIS-FOWLER PRIOR TO POURING OF CONCRETE.
- ALL CONCRETE EXCEPT AS NOTED SHALL BE C/P 3000 P.S.I. STONE AGGREGATE CONCRETE. CHAMFER ALL EXPOSED EDGES 1/2".

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

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE 6-21-76

CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING \_\_\_\_\_ DATE 6-17-76

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

DIRECTOR \_\_\_\_\_ DATE 6-14-76

CHIEF BUREAU OF HIGHWAYS \_\_\_\_\_ DATE \_\_\_\_\_

NOTE: CHAIN LINK FENCE SHALL BE 48" HIGH WITH 2" Ø LIVE POSTS AND 2" Ø CORNER POSTS (ONLY) FABRIC SHALL BE #9. REFER TO A.S.T.M. SPEC. A-302.

5-5-76

WOODFORD NEIGHBORHOOD CENTER - PHASE I - TENNIS COURTS

COLUMBIA TOWN CENTER

SECTION 7, AREA 7, PLAT BOOK FOLIO 5TH ELECTION DISTRICT, HOWARD COUNTY, MD.

MACRIS-FOWLER ASSOCIATES

CIVIL-STRUCTURAL ENGINEERS, SURVEYORS, PLANNERS

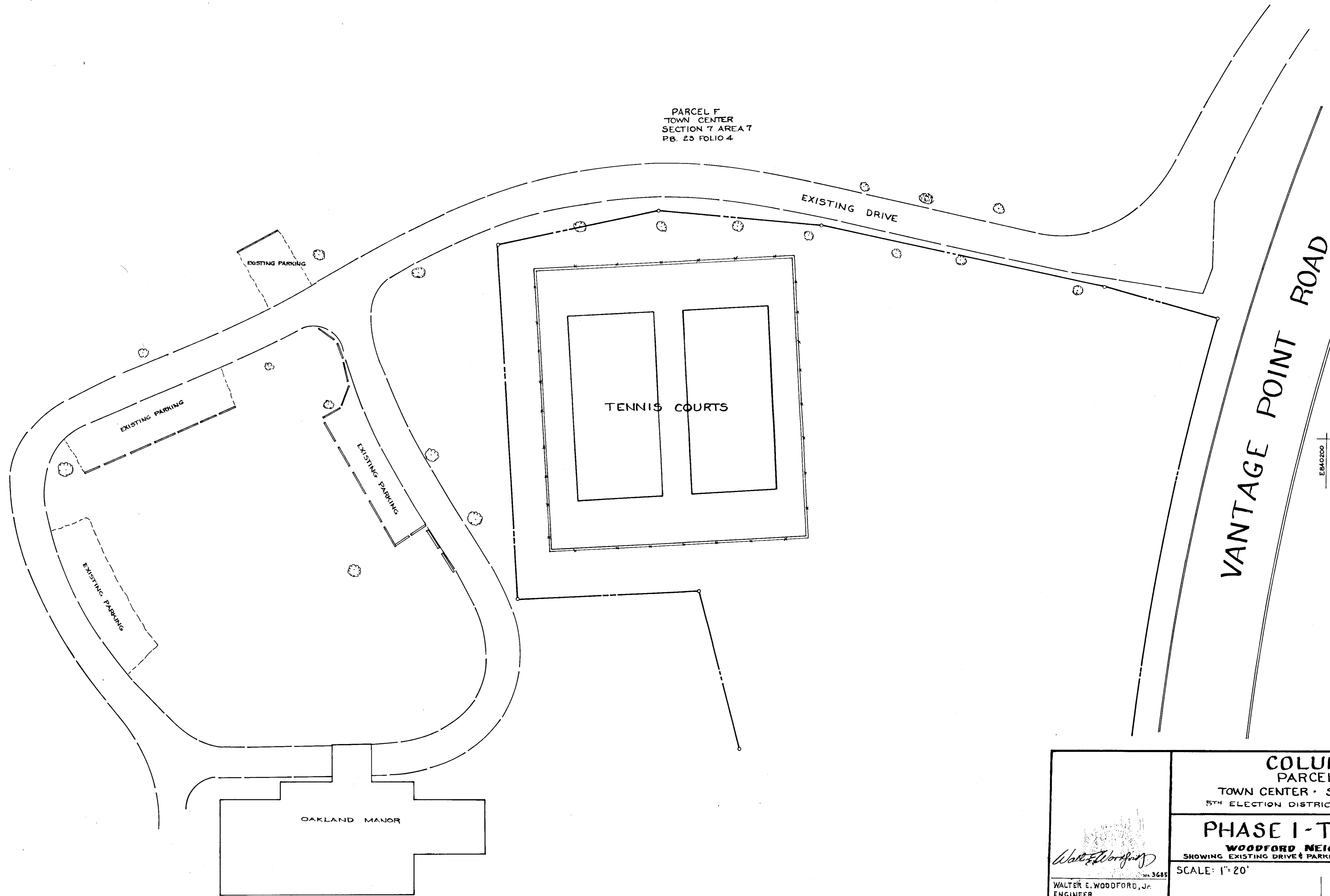
27 W. JEFFERSON ST. ROCKVILLE, MD. 20850

(301) 340-8705 (301) 762-3858

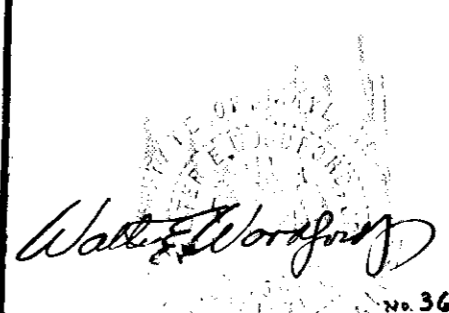
REVISIONS			DESIGNED DRAWN	
NO.	DATE	BY	CHECKED	DATE

JOB NO. \_\_\_\_\_  
DRAWING NO. 5/6

PARCEL F  
TOWN CENTER  
SECTION 7 AREA 7  
PB. 23 FOLIO 4



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 5-5-76

 WALTER E. WOODFORD, JR. ENGINEER THE ROUSE CO. COLUMBIA, MD. 21044	<b>COLUMBIA</b> PARCEL E-1 TOWN CENTER - SECTION 7 AREA 7 5TH ELECTION DISTRICT OF HOWARD COUNTY, MD.
	<b>PHASE I - TENNIS COURTS</b> WOODFORD NEIGHBORHOOD CENTER SHOWING EXISTING DRIVE & PARKING RELATIVE TO TENNIS COURTS SCALE: 1" = 20' DATE: 6-25-75 SHEET 6 of 6