NO.	REVISION	DATE
1	Rev. Storm Drain @ Str. I-4A	9-20-83

GENERAL NOTES:

1. All Materials and Construction to be in accordance with Howard County Road Construction Code and Specifications.
2. This Plan is Covered by Final Development Plan Phase 178, Part II. (FDP 178-A-1, Part II)
3. Any damage to County owned rights-of-way shall be corrected at the developer's expense.
4. Installation of Traffic Control Devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control."
5. Topography was compiled from actual field survey.
6. The area included in this submission is located on Tax Map # 42.
7. All driveways and parking areas to be privately owned and maintained.
8. All coordinates are based on Howard County geodetic control traverse which is based upon the Maryland State Plane Coordinate System.
9. Class "C" Trench bedding shall be used for all storm drainage unless shown otherwise.
10. All downspout drains shall be handled by one or the following methods: A. Downspout to splash blocks and discharge to ground having good percolation. B. Downspout in front of units piped to curb. C. Downspout connected to storm drain.
11. The developer agrees to work with the Department of Licenses and Inspections to resolve any problems caused by roof water discharge.
12. Handicapped Parking Signs shown thus: shall be placed in approximate location shown in plan in accordance with the "Maryland Building Code for the Handicapped" Section 05.01-07.05.
13. Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location & elev. of the main by digging test pits, by hand, at all utility crossings, well in advance of constr.
14. The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 992-2417 or 792-7272.
15. All setbacks & criteria as shown in F.D.P. Phase 178A, Part II. recorded in Plat No 3054 A-493.

LEGEND:

1. Existing Contour (2 Ft. Interval) ---- 330 ----
2. Proposed Contour —— 330 ——
3. Spot Elevation +30.5
4. Direction of Drainage →
5. Exist. Trees to be retained
6. Paving Section for Eden Brook Drive
7. Concrete Paving Section (Compactor Area)
8. Paving Section for Private Drive (Compactor Area)
9. [H] Indicated Unit for the Handicapped.

REVISION NOTE:
8-15-83 - Dimensions of Sweet Hours Way entrance changed from 24' to 22' with the center island widened from 10' to 14'.

PLAT REFERENCE: PLAT Nos. 4961, 4962, 5229, 5230

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

COUNTY HEALTH OFFICER (signed)	DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR (signed)	DATE 6-6-83
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. (signed)	DATE 6-6-83

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

DIRECTOR (signed)	DATE 6-2-83
CHIEF BUREAU OF ENGINEERING (signed)	DATE 6-1-83

SITE ANALYSIS:

1. Number of Units shown; 232 Permitted: 232 Shown
2. Number of Parking Spaces Required: 248
3. Number of Parking Spaces Provided: 353
4. Building Coverage: 20.1%
5. Green Space Provided: 6.55 Ac. (53.5%)
6. Total Area: 12.2445 Acres
7. Gross Floor Area of Units are:
   - A-1 689 } 1 Bedroom
   - A-2 808
   - B-1 960 } 2 Bedroom
   - B-3 1069
8. Zoning: New Town (Apts) FDP 178-A-1, Part II.

Reviewed for Howard S.C.D. and meets Technical Requirements
Signature (signed) 5/31/83
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved (signed) Date

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
Signature of Developer/Builder (signed) Date

UNIT ANALYSIS

BLDG No.	A-1	A-2	B-1	B-3	TOTAL
1		12	8		20
2		12	8		20
3		12	8		20
4		20			20
5		12	8		20
6	12			12	24
7	12			12	24
8	10			10	20
9	10			10	20
10	10			10	20
11	12			12	24
TOTALS	66	68	32	66	232
	ONE BEDROOM		TWO BEDROOM		

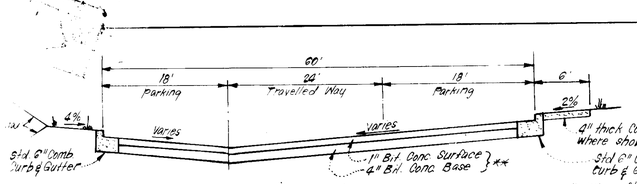
ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
(signed) 5-26-83
G. Nelson Clark Date

CFS **CLARK · FINEFROCK & SACKETT**
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED W.R.M.C.	SITE DEVELOPMENT PLAN PARCEL "D"	SCALE 1"=30'
DRAWN K.I.W.	COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3	DRAWING 1 OF 6
CHECKED W.R.M.C.	6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 82.054
DATE 3-31-83	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Centre Suite 232 8775 Cloud Leap Ct. Col. Md. 21045	FILE NO. 82.054-X

D-3181

SDP 83-91 C

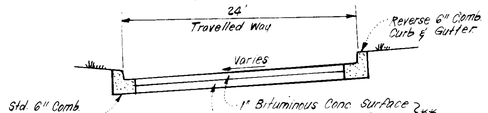


** See Alternate Paving Section for Private Drives & Parking.

Where Flow is away from curb & gutter, Rev. 6" Comb. Curb & Gutter shall be used.

TYPICAL SECTION- PRIVATE DRIVE & PARKING

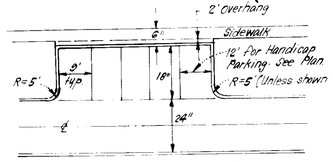
NO SCALE



** See Alternate Paving Section for Private Drives and Parking

TYPICAL SECTION- PRIVATE DRIVE

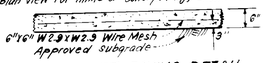
No SCALE



TYPICAL PAVING

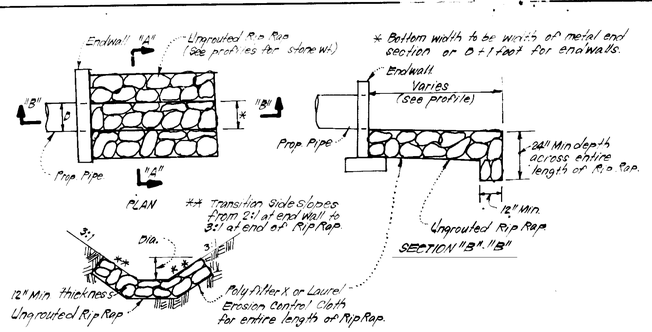
NO SCALE

Notes:
1. Materials and construction to be in accordance with Ho. Co. stds. & specs.
2. See plan view for limits of conc. paving, shown thus:



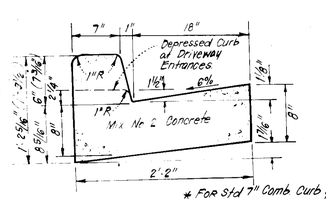
CONCRETE PAVING DETAIL (COMPACTOR AREA)

NO SCALE



UNGROUTED RIP RAP PAVING DETAILS

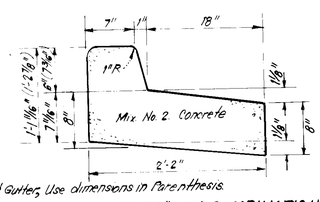
No SCALE



* For Std. 7" Comb. Curb & Gutter, Use dimensions in Parenthesis.

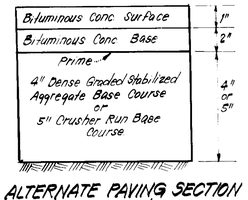
STANDARD 6" or 7" COMBINATION CURB AND GUTTER

NO SCALE



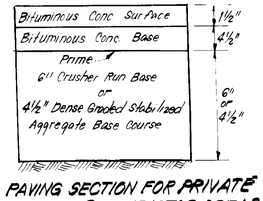
REVERSE 6" or 7" COMBINATION CURB AND GUTTER

NO SCALE



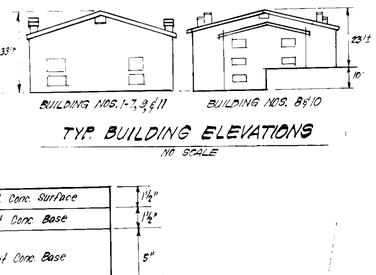
ALTERNATE PAVING SECTION PRIVATE DRIVE & PARKING

NO SCALE



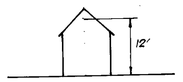
PAVING SECTION FOR PRIVATE DRIVE @ COMPACTOR AREAS

NO SCALE



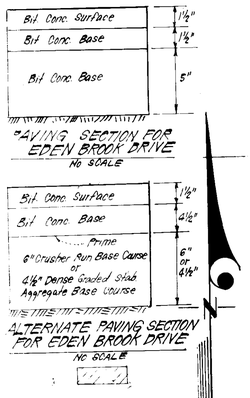
TYP. BUILDING ELEVATIONS

NO SCALE



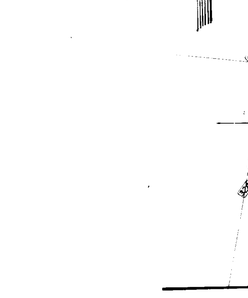
PROPOSED ADDITTION BUILDING ELEVATION

No Scale



PAVING SECTION FOR EDEN BROOK DRIVE

No SCALE



ALTERNATE PAVING SECTION FOR EDEN BROOK DRIVE

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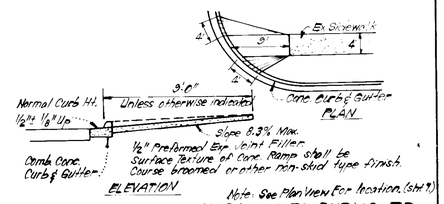
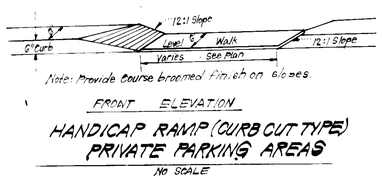


HANDICAP RAMP AT ENTRANCE TO PUBLIC RD

NO SCALE



Note: Provide Course broomed finish on slopes

FRONT ELEVATION

HANDICAP RAMP (CURB CUT TYPE) PRIVATE PARKING AREAS

No SCALE

3-23-83

Reviewed for Howard S.C.D.
Name
And meets Technical Requirements
Signature
U.S. Soil Conservation Service
Date

THIS DEVELOPMENT PLAN IS APPROVED BY THE SOIL CONSERVATION DISTRICT.
Approved 6-6-83 Date

BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done ... plan of development and plan for erosion and ... all applicable requirements involved. ... certificate of title ... ownership ... the ... I ... that it was prepared in accordance ... requirements of the Howard Soil Conservation ...

Signature of Builder/Developer Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable ... of quality ... personnel ... and ... that it was prepared in accordance ... requirements of the Howard Soil Conservation ...

S. Nelson Clark 5-20-83 Date

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

DIRECTOR OF HEALTH OFFICER — DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6-6-83

CHIEF DIVISION OF LAND DEVELOPMENT, ZONING ADMIN — DATE 6-6-83

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

DIRECTOR — DATE 6-1-83

CHIEF BUREAU OF ENGINEERING — DATE 6-1-83

No.	REVISIONS	Date
1	Remove un-built structures, Add proposed building	3-14-84

CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	W.R.M.C.
DRAWN	K.I.W.
CHECKED	W.R.M.C.
DATE	3-31-83

SITE DEVELOPMENT PLAN
PARCEL "D"

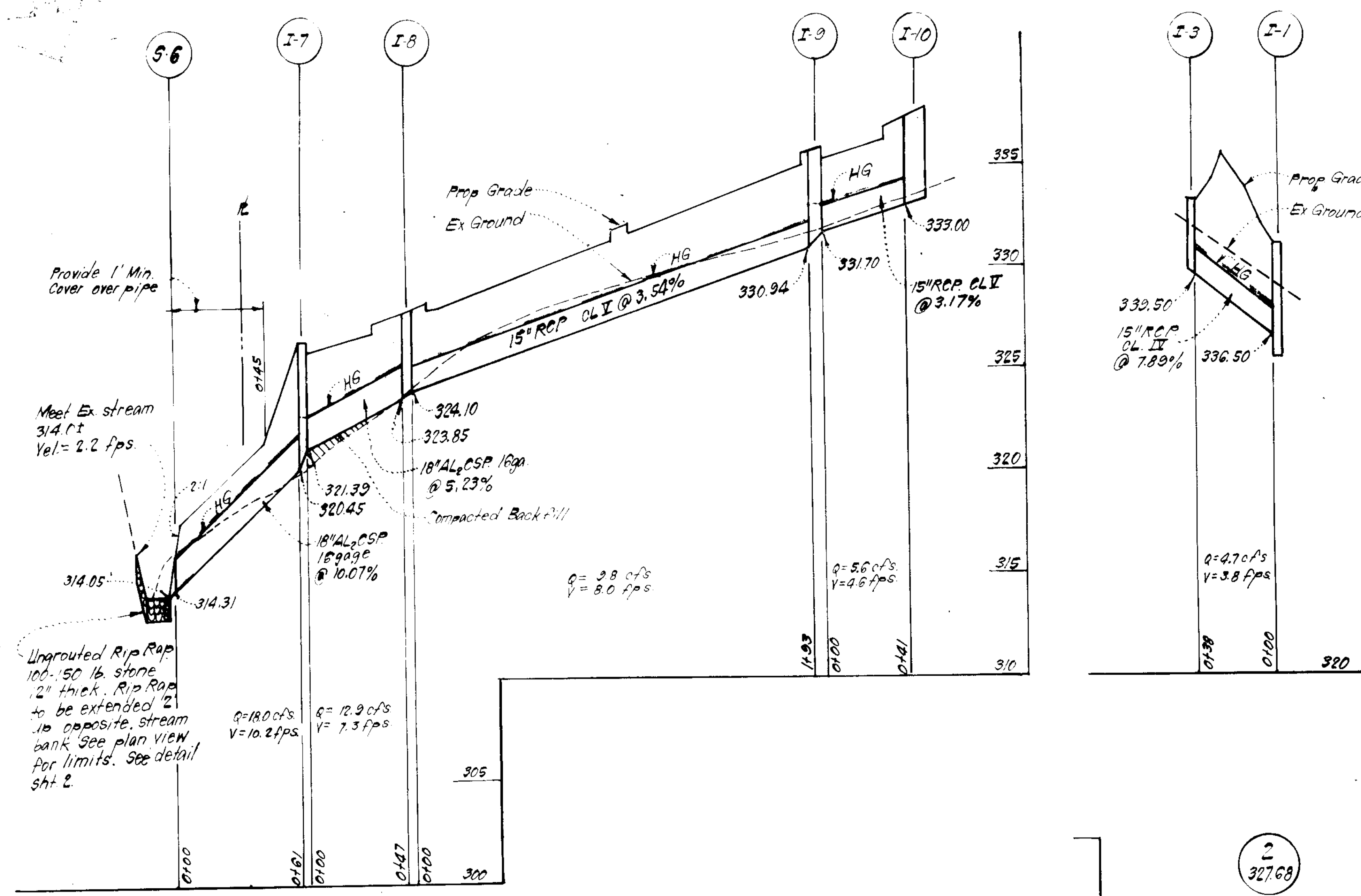
COLUMBIA

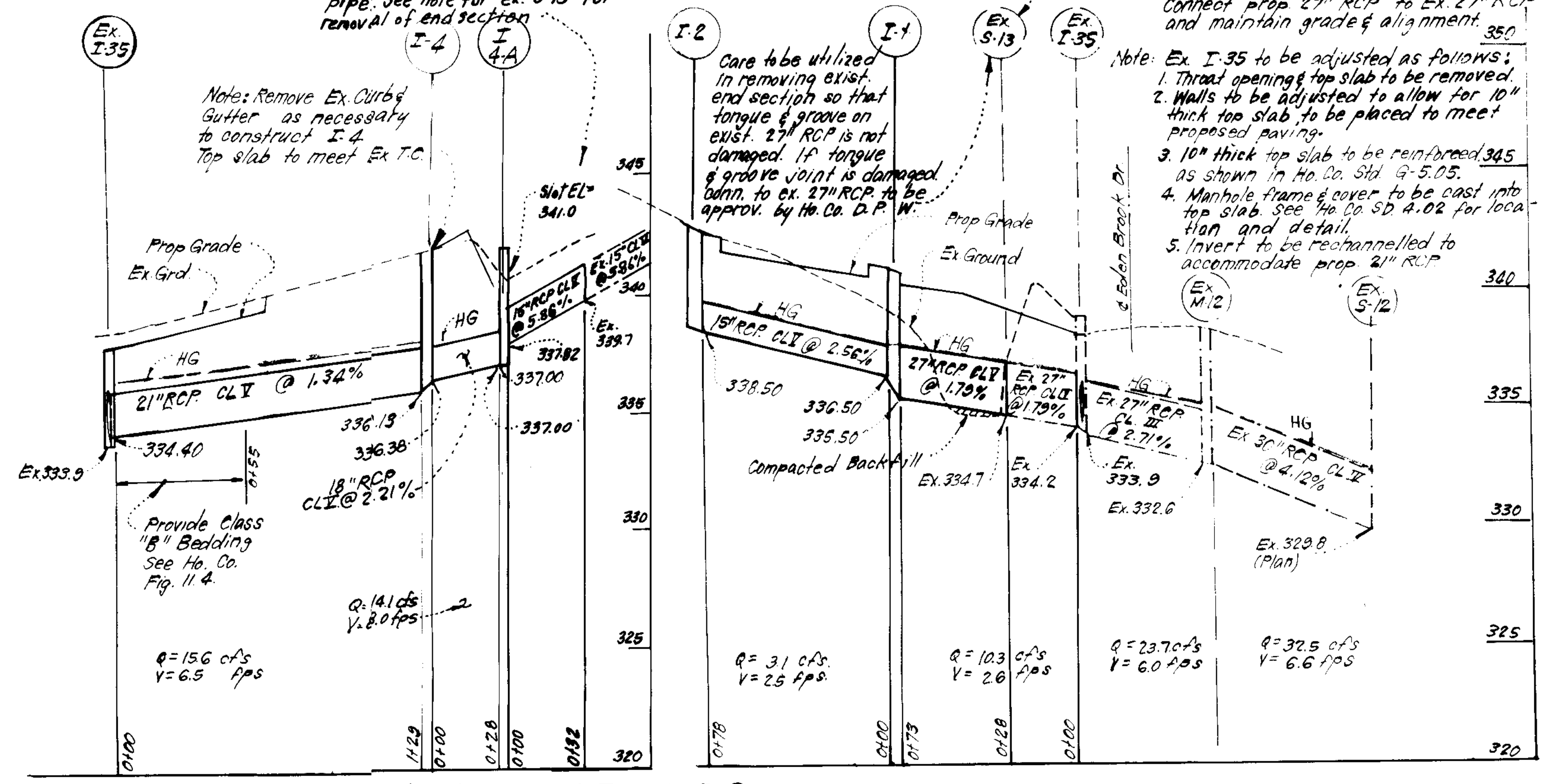
VILLAGE OF KINGS CONTRIVANCE
SECTION 2 AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

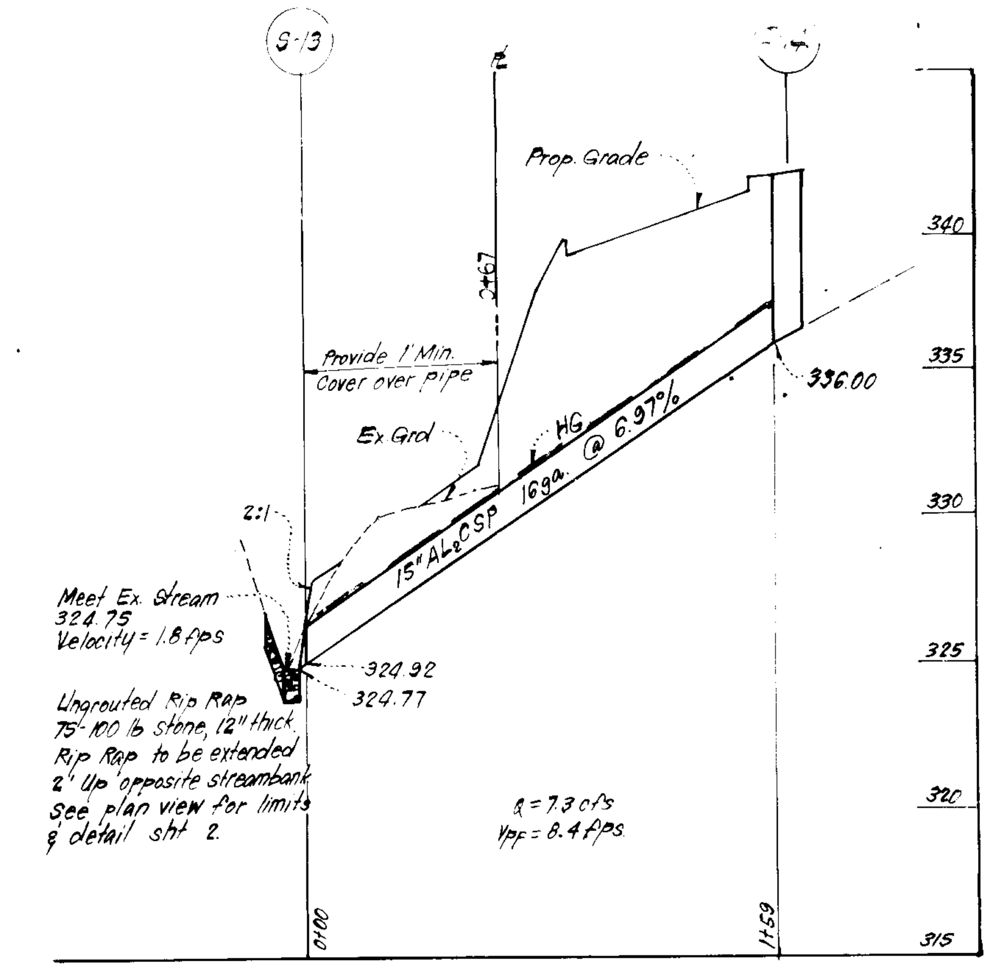
FOR: EDEN BROOK PARTNERSHIP
Long Reach Village Centre Suite 232
8775 Cloud Leap Ct. Col. Md 21045

SCALE	1"=30'
DRAWING	2 OF 6
JOB NO.	82-054
FILE NO.	82-054.X

SDP 83-91-C

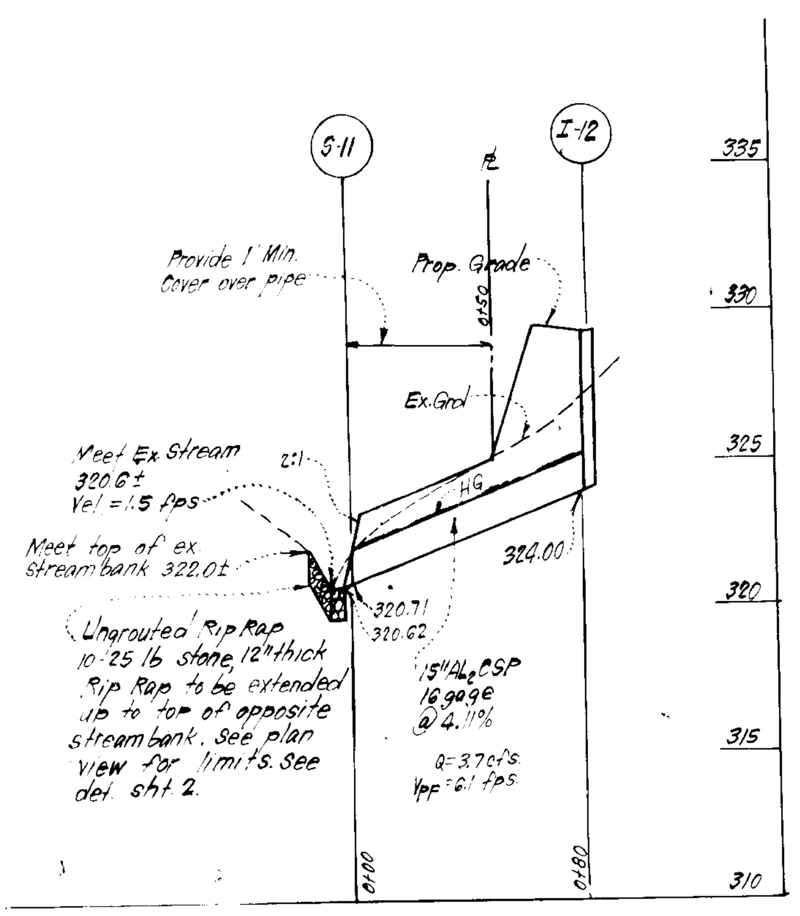




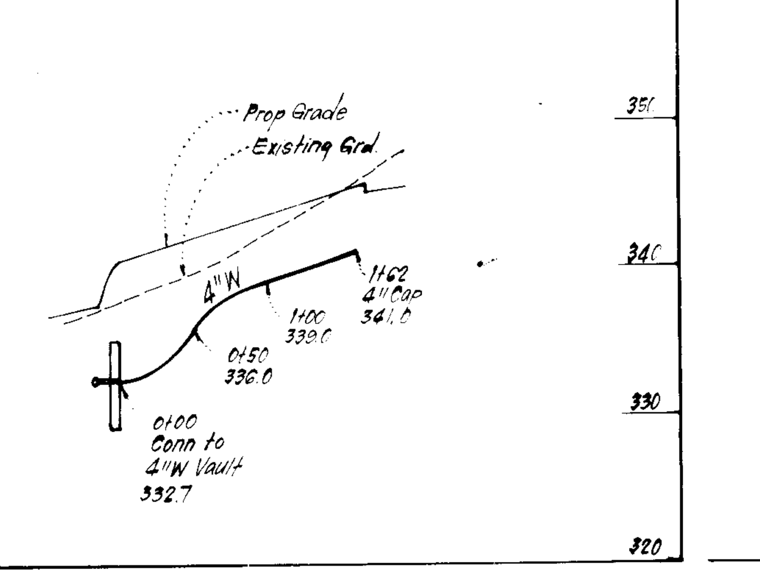


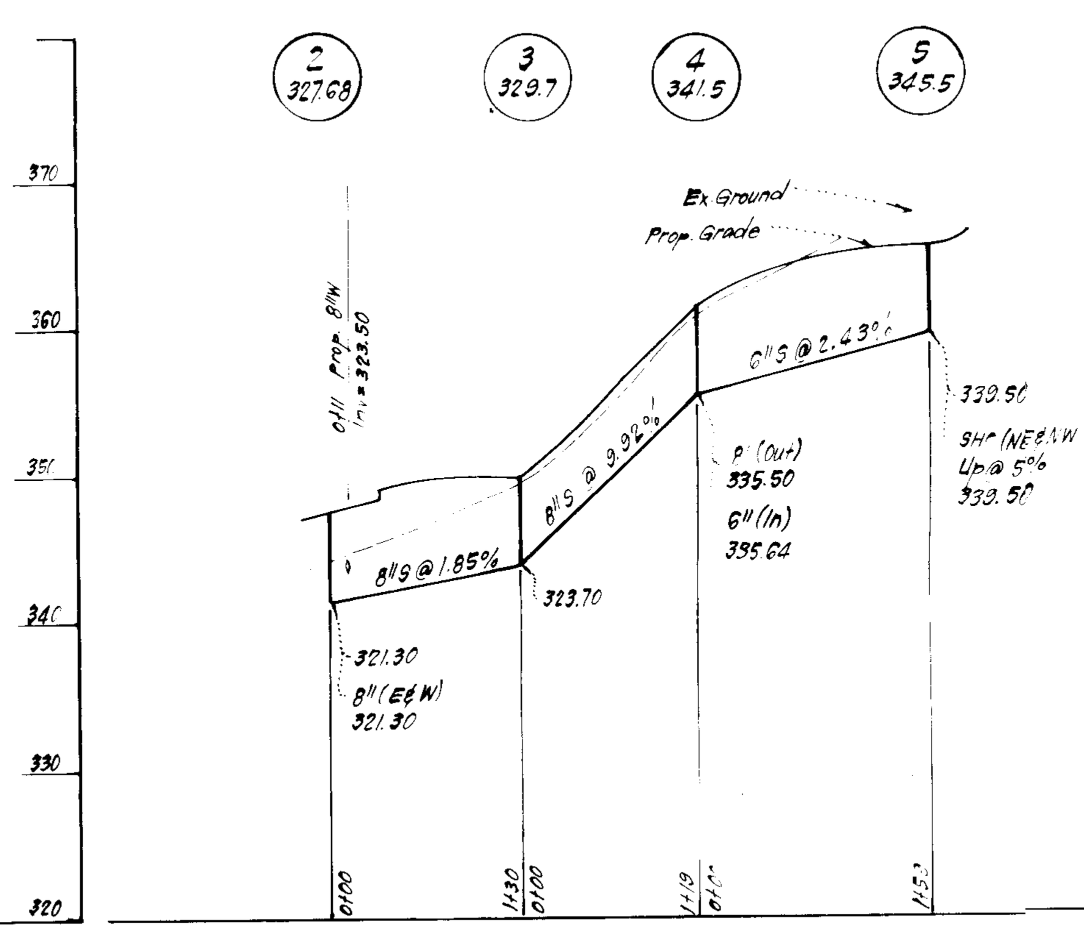
STORM DRAINAGE PROFILES

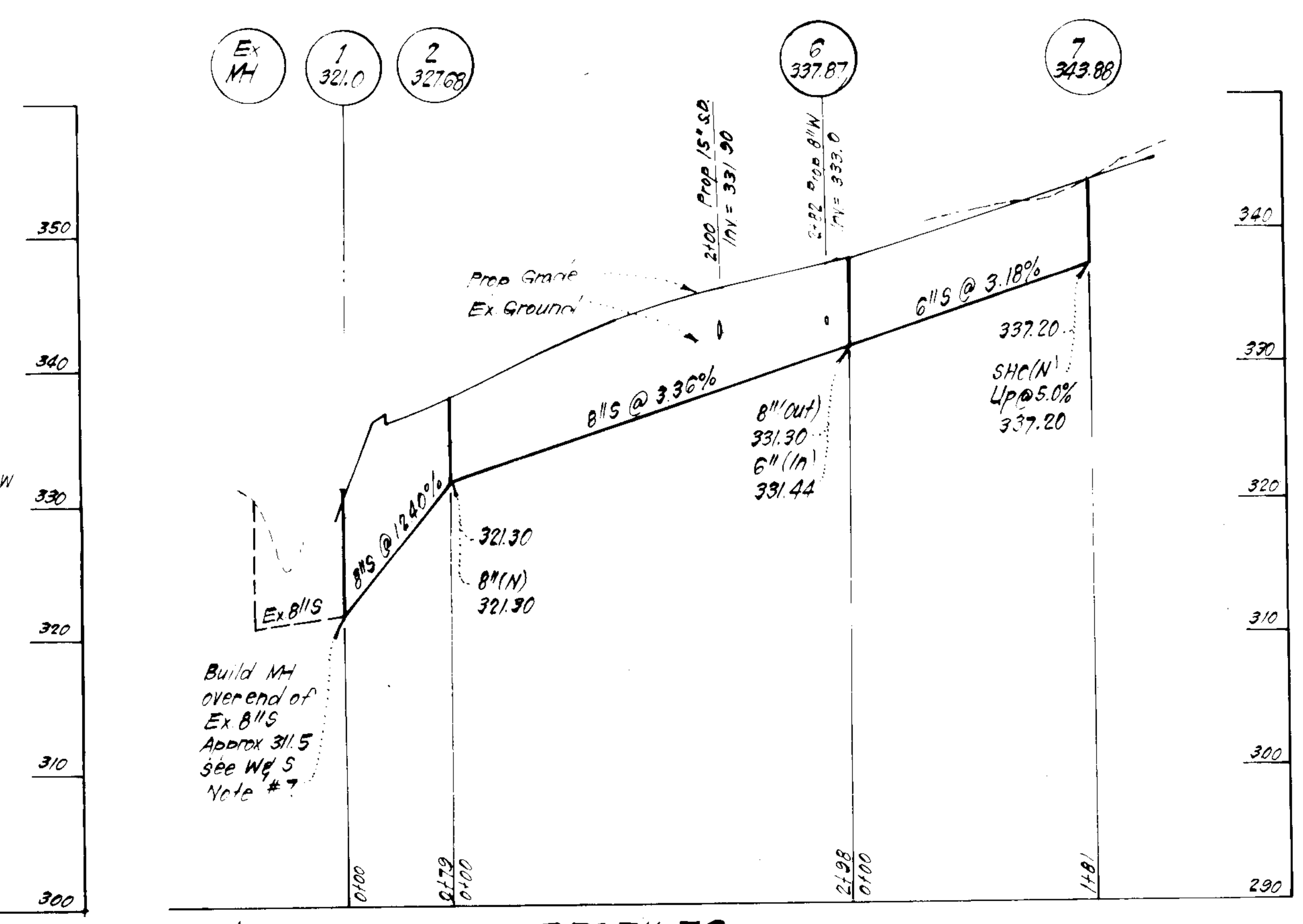
SCALES: HORIZ: 1"=50'
VERT: 1"=5'

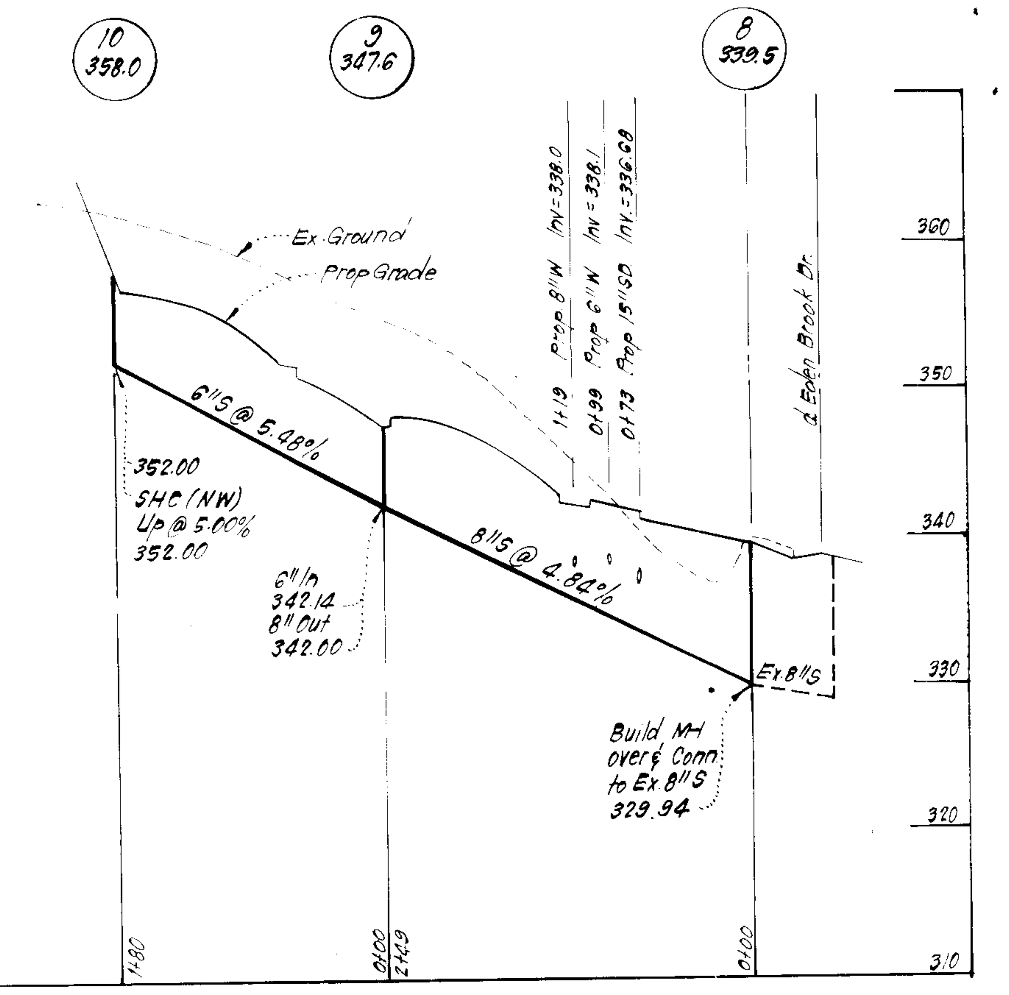


PRIVATE 4"W









WATER & SEWER PROFILES

SCALES: HORIZ: 1"=100'
VERT: 1"=10'

PIPE SCHEDULE

	SIZE	TYPE	LENGTH
	15"	RCP CL V	344 LF
	15"	RCP CL IV	38 LF
*	15"	AL2 CSP 16ga.	239 LF
*	18"	AL2 CSP 16ga.	108 LF
	21"	RCP CL V	129 LF
	27"	RCP CL V	45 LF
	18"	RCP CL V	28 LF

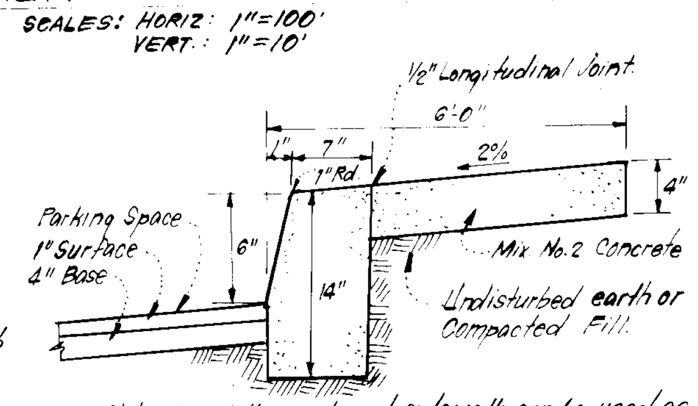
* 2 2/3" x 1/2" corrugations.

STRUCTURE SCHEDULE △

	No	TYPE	INV. IN	INV. OUT	TOP ELEVATION UPPER	TOP ELEVATION LOWER	REMARKS			LOCATION
#	I-1	A-5 Inlet w/Deflector	336.50 336.50	335.50	341.02	340.90	Ho. Co. Std.	SD 4.01	W=3'-6"	See Plan
#	I-2	A-5 Inlet w/Deflector	—	338.50	342.97	342.67	Ho. Co. Std.	SD 4.01	W=2'-6"	See Plan
	I-3	A-10 Inlet	—	339.50	343.13	342.99	Ho. Co. Std.	SD 4.02	W=2'-6"	See Plan
#	I-4	A-5 Inlet w/Deflector	—	336.13	342.10 ±	341.87 ±	Ho. Co. Std.	SD 4.02	W=3'-6"	℄ Inlet Sta. 35+91 E.B.D. 22' Lt.
*	S-6	Metal End Section	314.31	314.05	—		Ho. Co. Std.	SD 5.61	Dia=18"	See Plan
	I-7	A-10 Inlet	321.39	320.45	326.50	326.50	Ho. Co. Std.	SD 4.02	W=2'-6"	See Plan
#	I-8	A-5 Inlet w/Deflector	324.10	323.85	328.12	327.93	Ho. Co. Std.	SD. 4.01	W=2'-6"	See Plan
#	I-9	A-10 Inlet w/Deflector	331.70	330.94	336.01	335.56	Ho. Co. Std.	SD 4.02	W=2'-6"	See Plan
#	I-10	A-10 Inlet w/Deflector	—	333.00	337.76	337.24	Ho. Co. Std.	SD 4.02	W=2'-6"	See Plan.
*	S-11	Metal End Section	320.71	320.62	—		Ho. Co. Std.	SD. 5.61	Dia 15"	See Plan
	I-12	A-10 Inlet	—	324.00	329.52	329.30	Ho. Co. Std.	SD. 4.02	W=2'-6"	See Plan
*	S-13	Metal End Section	324.92	324.77	—		Ho. Co. Std.	SD 5.61	Dia. 15"	See Plan
	I-14	A-10 Inlet	—	336.00	341.82	341.63	Ho. Co. Std.	SD. 4.02	W=2'-6"	See Plan.
	I-4A	"C" Inlet	337.82	337.00	341.83		Ho. Co. Std.	SD 4.11	2'-6" Sq.	See Plan.

\# See Ho. Co. Std. SD 4.83 for Inlet Deflectors
* See Ho. Co. Std. SD 5.62 for Type 1 Connection.
△ All Inverts to be fully developed

Notes:
1. Longitudinal joint between sidewalk & curb shall be continuous and to a depth of 1/4 the thickness of the sidewalk or 1" Latitudinal joints shall run from back edge of sidewalk continuous to the bottom face of curb to a depth of 1/4 the sidewalk thickness or 1" and spaced 5' apart.
2. Provide expansion joints at 15' intervals. for full depth of concrete.



Note: Monolithic curb and sidewalk can be used as an alternate to reverse 6" Curb & Gutter where curb is adjacent to sidewalk.

MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA

NO SCALE

WATER AND SEWER NOTES:

1. All sewer mains shall be CSPX, VCPX or ACP Class 2400 except where indicated.
2. All construction methods and materials for onsite private Water & Sewer systems shall follow the current edition of the Howard County Plumbing Code, supplemented by the Howard County Standard Details and specifications where necessary.
3. All Water Mains shall be C.I.P. or D.I.P.
4. All Water Mains shall have a minimum of 3.5' of cover.
5. Block all fittings with concrete.
6. At MH #1 Contractor shall uncover existing stub at time of stakeout so that actual invert may be determined.

JED
3-23-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
[signature] 6-3-83
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[signature] 6-6-83
PLANNING DIRECTOR — DATE
[signature] 6-6-83
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Guy F. Nemey 6-2-83
DIRECTOR — DATE
[signature] 6-1-83
CHIEF BUREAU OF ENGINEERING — DATE

No	REVISION	DATE
1	Rev. Storm Drain @ Str I-4A	9-20-83

Reviewed for Howard S.C.D. and meets Technical Requirements
Y. Kagan — 5/31/83
Signature — Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[signature] 6-6-83
Approved — Date

DEVELOPER'S/BUILDER'S CERTIFICATE
[signature] — Signature of Developer/Builder — Date

ENGINEER'S CERTIFICATE
I hereby certify that this plan for erosion and ...
G. Nelson Clark 5-20-83
G. Nelson Clark — Date

CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	SITE DEVELOPMENT PLAN PARCEL "D"	SCALE
JLS	COLUMBIA	As Shown
DRAWN	VILLAGE OF KINGS CONTRIVANCE	DRAWING
K.I.W.	SECTION 2 AREA 3	3 OF 6
CHECKED	6TH ELECTION DISTRICT	JOB NO.
JLS	HOWARD COUNTY, MARYLAND	82-054
DATE	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Center 8775 Cloud Leap Ct. Col. Md. 21045	FILE NO.
3-31-83		82-054-X

SDP 83-91-C

NOTES:

DELAY CONSTRUCTION OF CURB, GUTTER & PAVING @ 10' CURB OPENINGS UNTIL SITE AREAS DRAINING TO I-4, I-3, I-2 & I-1 HAVE BEEN STABILIZED.

TEMPORARY 12" CMP UNDER ENTRANCE TO BE REMOVED OR BRICKED SHUT AFTER AREA DRAINING TO IT HAS BEEN STABILIZED.

EXISTING STORM DRAINAGE IN EDEN BROOK DR. HAVE SUFFICIENT CAPACITY (SEE COMPS.)

AREAS DISTURBED DURING CONSTRUCTION IN R/W OF EDEN BROOK DR. TO BE IMMEDIATELY STABILIZED.

DISTURBED AREA DRAINING TO YARD INLET I-4A TO BE IMMEDIATELY STABILIZED. SEE PREVIOUSLY APPROVED D.A.M. SHT. 4 OF 7, SDP 82-49C FOR OFF-SITE AREAS DRAINING TO I-4A & I-4.

FOR SEDIMENT & EROSION CONTROL SHOWN AS EXISTING, SEE PREVIOUSLY APPROVED SEDIMENT & EROSION AND GRADING PLAN FILE No. GP-83-36

No	REVISION	DATE
1	Rev Storm Drain @ Str I-4A	9/19/83

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

(signature) 6-3-83
HEALTH OFFICER — DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

(signature) 6-6-83
DIRECTOR — DATE

(signature) 6-6-83
DIVISION OF LAND DEVELOPMENT & ZONING ADM. — DATE

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

(signature) 6-1-83
DIRECTOR — DATE

(signature) 6-1-83
CHIEF, BUREAU OF ENGINEERING — DATE

LEGEND:

1. Existing Contour (2 Ft. Interval) ---310---
2. Proposed Contour ——310——
3. Spot Elevation +105
4. Direction of Drainage
5. Existing Trees to be saved
6. Existing Perimeter Dike — Ex. P.D.
7. Existing Interceptor Swale — Ex. I.S.
8. Existing Stabilized Construction Entrance
9. Stone Filter Inlet Protection — SFIP

HOWARD S.C.D.

(signature) 5/31/83
U.S. Soil Conservation Service

(signature) 6-6-83
Approved — Date

We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control, and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of Sediment and Erosion before beginning the project. We shall allow periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

(signature) 3/31/83
Signature of Developer — Date

ENGINEER'S CERTIFICATE

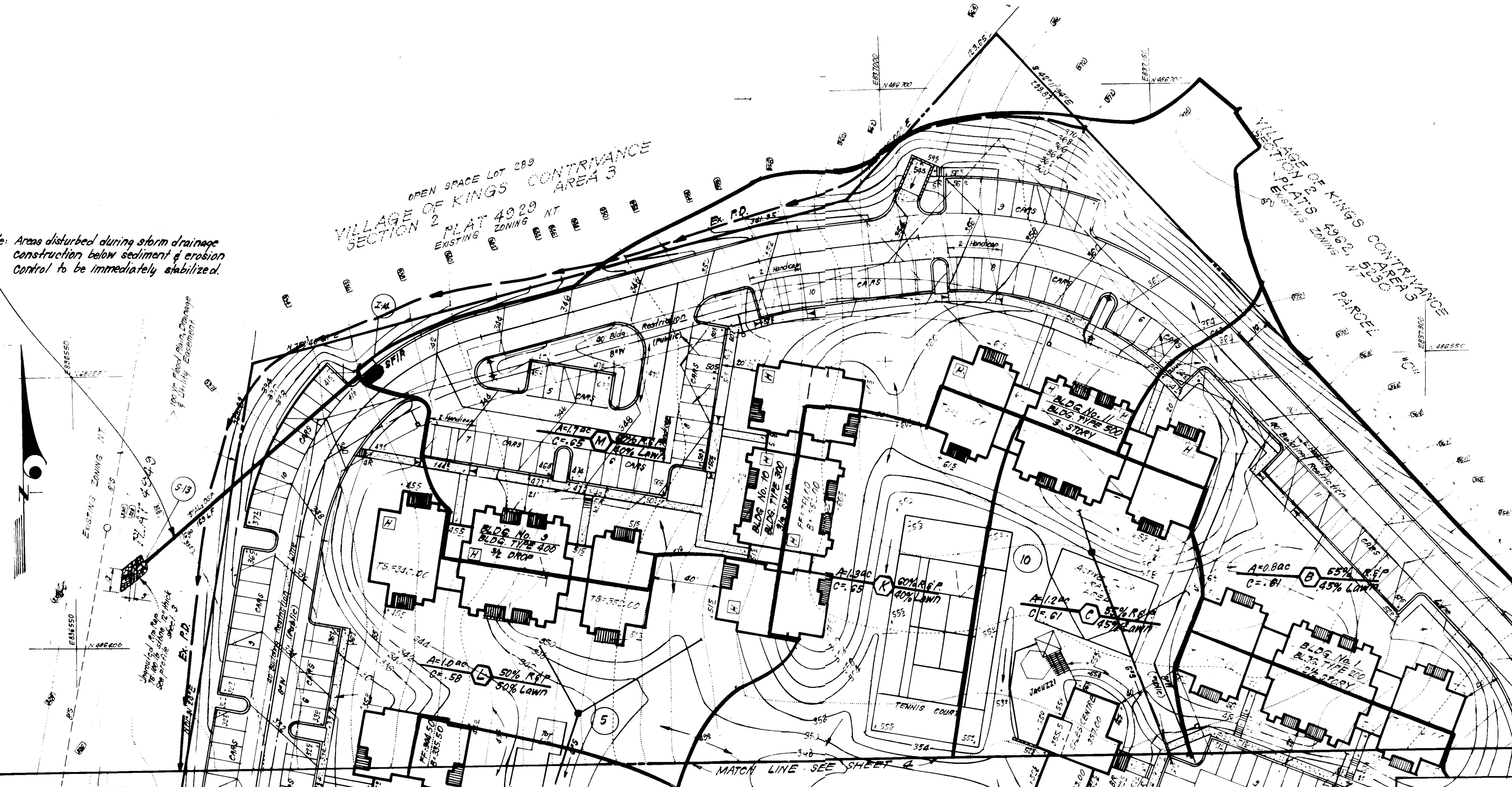
I hereby certify that this plan for sediment and erosion control represents a practical and workable plan …

(signature) 3-30-83
G. Nelson Clark — Date

CFS CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED JLS WRMC	SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP PARCEL "D" COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN K.I.W.		DRAWING 4 OF 6
CHECKED JLS WRMC		JOB NO. 92-154
DATE 3-31-83	FOR EDEN BROOK PARTNERSHIP Long Reach Village Centre Suite 232 8775 Cloud Leap Ct. Col. Md. 21045	FILE NO. 92-154-Y

Note: Areas disturbed during storm drainage construction below sediment & erosion control to be immediately stabilized.



APPROVED
5-23-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER	DATE 6-3-83
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	
PLANNING DIRECTOR	DATE 6-6-83
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.	DATE 6-6-83
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR	DATE 6-2-83
CHIEF BUREAU OF ENGINEERING	DATE 6-1-83

D-3381

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Signature Date 5/31/83
U.S. Soil Conservation Service

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

Approved Date 6-6-83

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Developer/Builder Date 3/31/83

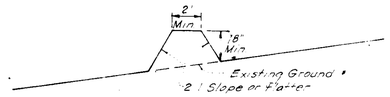
ENGINEER'S CERTIFICATE

I hereby 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.

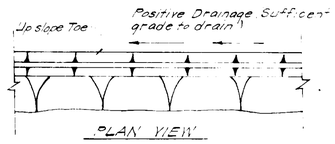
G. Nelson Clark Date 3-30-83

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED JLS W.RMC	SITE DEVELOPMENT PLAN, SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP PARCEL "D" **COLUMBIA** VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN K.W.		DRAWING 5 OF 6
CHECKED JLS WRMC		JOB NO. 82-054
DATE 3-31-83	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Centre Suite 232 8775 Cloud Leap Ct. Col Md 21045	FILE NO. 82-054-X



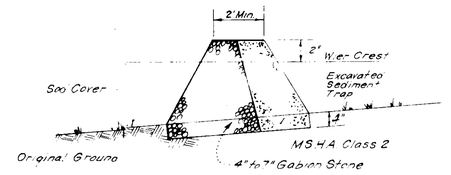
CROSS SECTION



PLAN VIEW

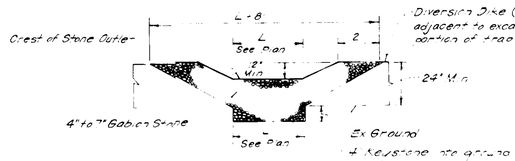
PERIMETER DIKE (P.D.)

NO SCALE



Note: For Dimensions of storm see plan

PROFILE



CROSS SECTION

Notes:
1. Sediment Trap to be cleaned out when sediment reaches a level of 1ft below crest of stone outlet.
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
3. Stone Outlet to be constructed through diversion dike adjacent to excavated

DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP #1

NO SCALE

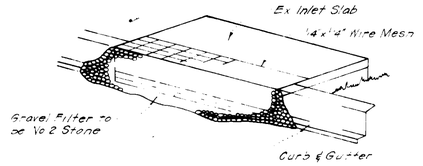
GENERAL NOTES

1. Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
2. All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 4 lbs/1,000 sf.
3. Notify the Bureau of Inspections and Permits at least 24 hrs. before starting any work.
4. All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
5. Stabilization of Disturbed ground to be done as soon after construction as possible.
6. All disturbed area to be stabilized in accordance with the following Specifications:
   A. Seed - certified 85% germination applied at the rate of 3 lbs/1,000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
   B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1,000 sf. Ground Agricultural Lime or Dolomatic Lime applied at a rate of 90 lbs/1,000 sf.
   C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1,000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
   D. All Sod used shall be Maryland State Certified.
7. All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
8. On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site on a continuing day to day basis.
9. It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
10. The Contractor shall keep all public roads free of sediment deposits, etc. from traffic leaving construction site.
11. Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
12. All pipes to be backed at the end of each day. See detail this sheet.
13. Total Amount of Straw Bales or Silt Fence shown = None L.F.
14. SITE ANALYSIS:

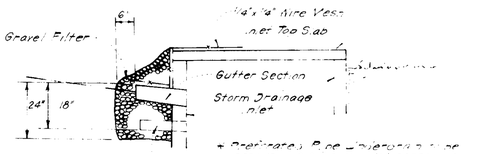
A. Total Area	12.24	Acres
B. Area to be Roofed	2.21	Acres
C. Area to be Paved	3.86	Acres
D. Area to be Seeded	5.83	Acres
E. Area Unisturbed	0.34	Acres

15. CONSTRUCTION SEQUENCE:
   A. Cleanout and Maintain Existing Sediment & Erosion Control Measures.
   B. Construct Storm Drainage & Install S.F.I.P.'s.
   C. Construct Utilities.
   D. Fine Grade & Construct paving, sidewalks, buildings, etc.*
   E. Stabilize all other disturbed areas on site in accordance with general note #6.
   F. Remove sediment & erosion control measures after all areas draining to them have been stabilized.

   * Rough Grading Completed.



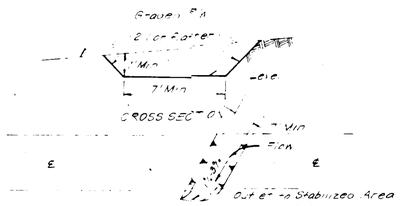
ISOMETRIC VIEW



SECTION VIEW

STONE FILTER INLET PROTECTION (S.F.I.P)

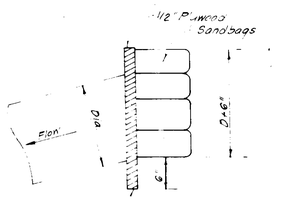
NO SCALE



CROSS SECTION

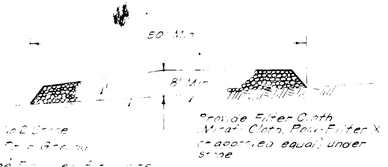
INTERCEPTOR SWALE (I.S.)

NO SCALE



PIPE BLOCKING DETAIL

NO SCALE



SECTION VIEW

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE

SPECIAL STONE OUTLET STRUCTURE DETAIL (S.O.S.T.)(#2)

NO SCALE

APPROVED
HOWARD COUNTY BOARD OF [illegible]
DATE 3-23-83

Reviewed for Howard Soil Conservation District as to [illegible]
[illegible] 5/3/83

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

Approved 5/4/83 Date

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

COUNTY HEALTH OFFICER 6-3-83 DATE

HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR 6-6-83 DATE

CHIEF, BUREAU OF ENGINEERING & DEVELOPER'S ZONING ADMIN. 6-6-83 DATE

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

DIRECTOR 6-2-83 DATE

CHIEF, BUREAU OF ENGINEERING 6-1-83 DATE

6-1-83

[illegible] soil conservation district [illegible] Soil Conservation District is [illegible] authorize periodic [illegible] by the Howard Soil Conservation District as they deem [illegible] necessary."

Builder 1-28-83 Date

ENGINEER'S CERTIFICATE

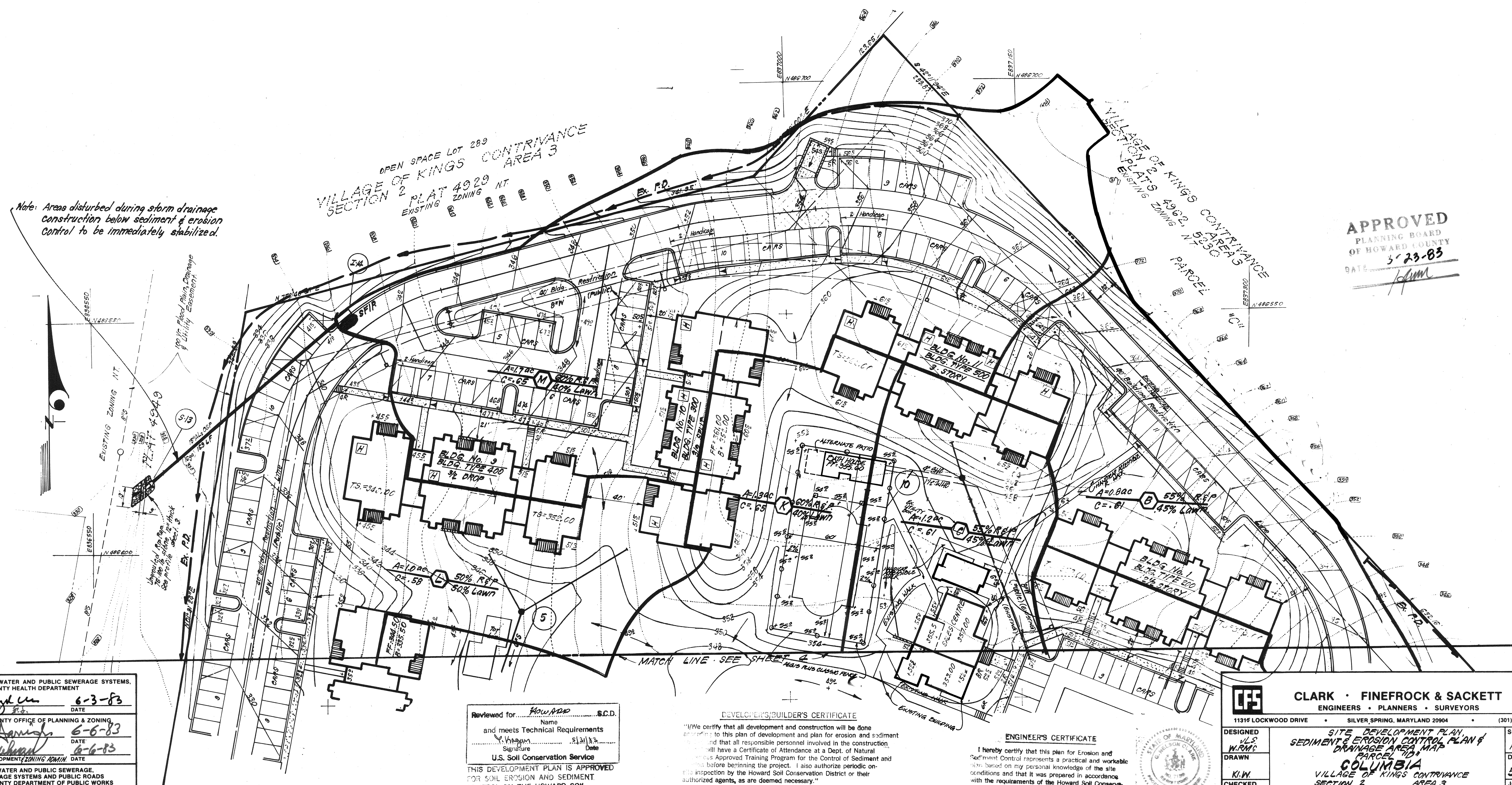
[illegible] that this plan for Erosion and [illegible] is practical and workable [illegible] in accordance with [illegible] requirements of the Howard Soil [illegible]

G. Nelson Clark 5-20-83 Date

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
[illegible] MARK AND [illegible]

DESIGNED VLS.	SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL PLAN PARCEL "D" COLUMBIA A VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND
DRAWN K.I.W.	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Center 8775 Cloud Leap Ct. Col. Md 21045
CHECKED VLS.	
DATE 3-31-83	

SCALE	As Shown
DRAWING	6 OF 6
JOB NO.	82-054
FILE	82-054 X



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

[signature] — COUNTY HEALTH OFFICER — DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

[signature] — PLANNING DIRECTOR — DATE 6-6-83

[signature] — CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 6-6-83

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

[signature] — DIRECTOR — DATE 6-2-83

[signature] — CHIEF BUREAU OF ENGINEERING — DATE 6-1-83

Nº	REVISIONS	DATE
1	REV. TENNIS COURT TO SWIMMING POOL W/ BATHHOUSE	3-24-05
	REV. TO UPDATE SALES CENTER AND WALKS	

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Y. Kagan 5/31/83
Signature Date
U.S. Soil Conservation Service

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

[signature] 6-6-83
Approved Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

[signature] 3/31/83
Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

I hereby 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] 3-30-83
G. Nelson Clark Date

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 3-23-83

CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	SITE DEVELOPMENT PLAN, SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP PARCEL "D"	SCALE
JLS W.RMC	COLUMBIA	1"=30'
DRAWN	VILLAGE OF KINGS CONTRIVANCE	DRAWING
K.I.W.	SECTION 2 AREA 3	5 OF 6
CHECKED	6TH ELECTION DISTRICT	JOB NO.
JLS WRMC	HOWARD COUNTY, MARYLAND	82-054
DATE	FOR: EDEN BROOK PARTNERSHIP, Long Reach Village Centre Suite 232, 8775 Cloud Leap Ct. Col. Md 21045	FILE NO.
3.31.83		82-054-X

D-3381

NOTE: AREAS DISTURBED DURING STORM DRAINAGE CONSTRUCTION BELOW SEDIMENT & EROSION CONTROL TO BE IMMEDIATELY STABILIZED.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 3-23-83

NOTES:

DELAY CONSTRUCTION OF CURB GUTTER & PAVING @ 10' CURB OPENINGS UNTIL SITE AREAS DRAINING TO I-4, I-3, I-2 & I-1 HAVE BEEN STABILIZED.

TEMPORARY 12" CMP UNDER ENTRANCE TO BE REMOVED OR BRICKED SHUT AFTER AREA DRAINING TO IT HAS BEEN STABILIZED.

EXISTING STORM DRAINAGE IN EDEN BROOK DR. HAVE SUFFICIENT CAPACITY (SEE COMPS.)

AREAS DISTURBED DURING CONSTRUCTION IN R/W OF EDEN BROOK DR. TO BE IMMEDIATELY STABILIZED.

DISTURBED AREA DRAINING TO YARD INLET I-4A TO BE IMMEDIATELY STABILIZED SEE PREVIOUSLY APPROVED D.A.M. SHT. 4 OF 7, SDP 82-49C FOR OFF-SITE AREAS DRAINING TO I-4A & I-4.

FOR SEDIMENT & EROSION CONTROL SHOWN AS EXISTING, SEE PREVIOUSLY APPROVED SEDIMENT & EROSION AND GRADING PLAN FILE No. GP-83-36

No	REVISION	DATE
1	Rev. Storm Drain @ Str I-4A	9/19/83
2	REV. TO UPDATE SALES CENTER	3-24-05

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 6-6-83
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 6-6-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
George F. Neumeyer, DIRECTOR — DATE 6-1-83
CHIEF BUREAU OF ENGINEERING — DATE 6-1-83

LEGEND:

1. Existing Contour (2 Ft. Interval)
2. Proposed Contour
3. Spot Elevation
4. Direction of Drainage
5. Existing Trees to be saved
6. Existing Perimeter Dike — Ex. P.D.
7. Existing Interceptor Swale — Ex. I.S.
8. Existing Stabilized Construction Entrance
9. Stone Filter Inlet Protection. — SFIP.

Reviewed for HOWARD S.C.D. and meets Technical Requirements
Signature — Date 3/31/83
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved — Date 6-6-83

DEVELOPER'S/BUILDER'S CERTIFICATE

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Signature of Developer/Builder — Date 3/31/83.

ENGINEER'S CERTIFICATE

I hereby 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.

G. Nelson Clark — Date 3-30-83

STATE OF MARYLAND — G. NELSON CLARK — No. 7195 — REGISTERED PROFESSIONAL ENGINEER

CFS CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED JLS W.RMC	SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP PARCEL "B" COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN K.I.W.		DRAWING 4 OF 6
CHECKED JLS W.RMC		JOB NO. 82-054
DATE 3-31-83	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Centre Suite 232 8775 Cloud Leap Ct. Col. Md. 21045	FILE NO. 82-054-X

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 3-23-83

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

COUNTY HEALTH OFFICER — DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6-6-83

CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 6-6-83

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

DIRECTOR — DATE 6-2-83

CHIEF BUREAU OF ENGINEERING — DATE 6-1-83

D-3381

Nº	REVISIONS	Date
2	REV. TENNIS COURT TO SWIMMING POOL W/ BATH HOUSE UPDATE SALES CENTER AND WALKS, ADD FENCE DETAIL	3-24-05
1	Remove un-built structures, Add proposed building	3-14-94

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Y. Kugan 5/31/83
Signature Date
U.S. Soil Conservation Service

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

Approved — Date 6-6-83

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Signature of Developer/Builder — Date

ENGINEER'S CERTIFICATE

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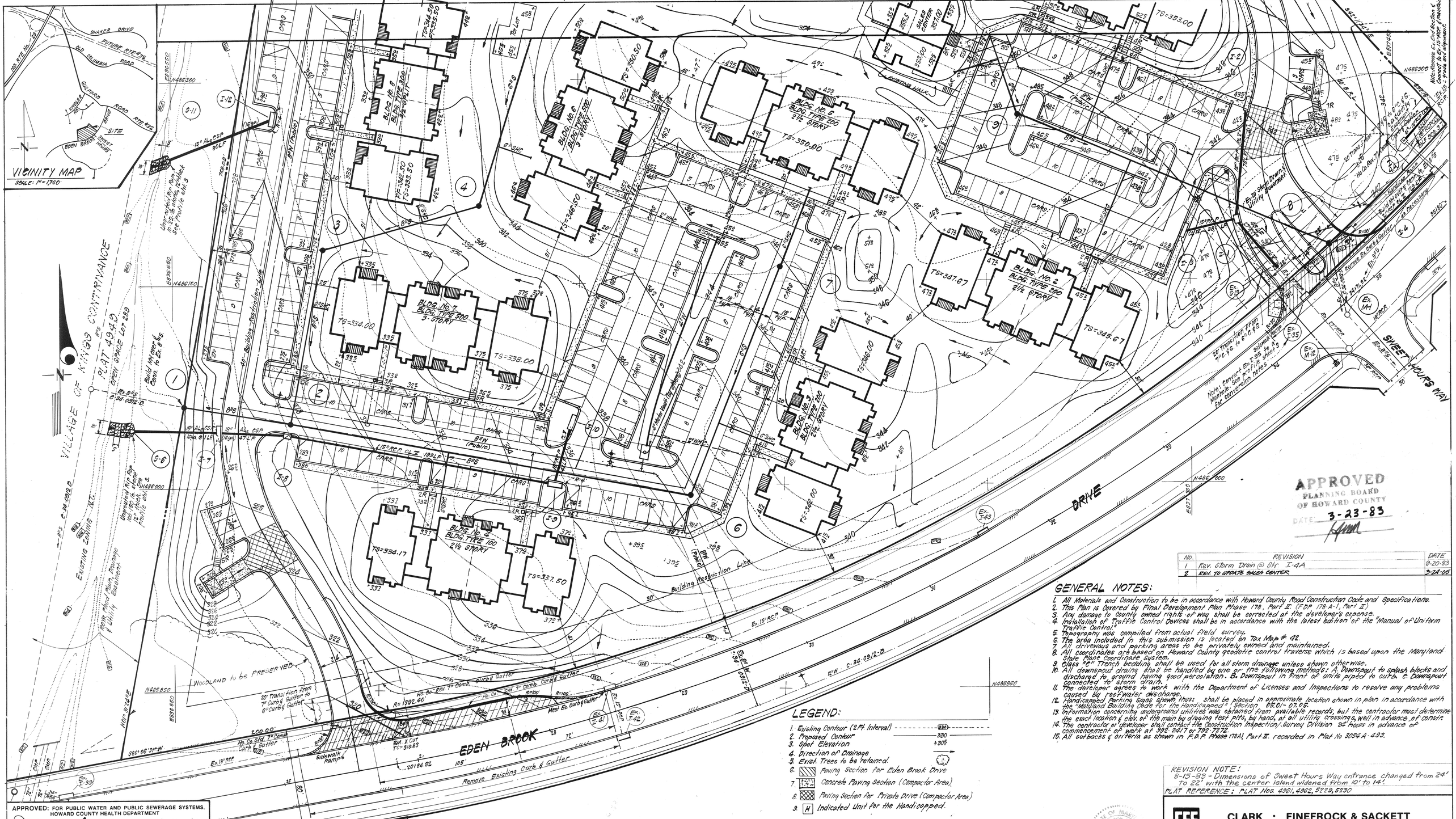
G. Nelson Clark — 5-20-83 Date

CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED W.RMC	SITE DEVELOPMENT PLAN PARCEL "D"	SCALE 1"=30'
DRAWN KI.W.	COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 2 OF 6
CHECKED WRMC		JOB NO. 82-054
DATE 3-31-83	FOR: EDEN BROOK PARTNERSHIP Long Reach Village Centre Suite 232 8775 Cloud Leap Ct. Col. Md 21045	FILE NO. 82-054-X

SDP 83-91-C



SITE ANALYSIS:

1. Number of Units shown: 232 Permitted: 232 shown
2. Number of Parking Spaces Required: 248
3. Number of Parking Spaces Provided: 353
4. Building Coverage: 20.1%
5. Green Space Provided: 6.55 Ac. (53.5%)
6. Total Area: 12.2405 Acres
7. Gross Floor Area of Units are:
   - A-1 689 sq ft 1 Bedroom
   - A2 806 sq ft 1 Bedroom
   - B1 900 sq ft 2 Bedroom
   - B3 1060 sq ft
8. Zoning: New Town (Apts) FDP 178-A-1, Part II.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 6-3-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 6-6-83
CHIEF, DIVISION OF LAND DEVELOPMENT, ZONING ADMIN. — DATE 6-6-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-2-83
CHIEF BUREAU OF ENGINEERING — DATE 6-1-83

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature — 5/31/83 Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved — 6/6/83 Date

DEVELOPER'S/BUILDER'S CERTIFICATE

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Signature of Developer/Builder — 11-28-82 Date

UNIT ANALYSIS

BLDG No.	UNIT TYPES A-1	A-2	B-1	B-3	TOTAL
1		12	8		20
2		12	8		20
3		12	8		20
4		20			20
5		12	8		20
6	12			12	24
7	12			12	24
8	10			10	20
9	10			10	20
10	10			10	20
11	12			12	24
TOTALS	66	68	32	66	232
	ONE BEDROOM	TWO BEDROOM			

ENGINEER'S CERTIFICATE

I hereby 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.

G. Nelson Clark — 5-20-83 Date

STATE OF MARYLAND — G. NELSON CLARK — No. 7209 — REGISTERED PROFESSIONAL ENGINEER

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 3-23-83

No.	REVISION	DATE
1	Rev. Storm Drain @ Sht. I-4A	9-20-83
2	REV. TO UPDATE SALES CENTER	3-24-06

GENERAL NOTES:

1. All Materials and Construction to be in accordance with Howard County Road Construction Code and Specifications.
2. This Plan is Covered by Final Development Plan Phase 178, Part II. (FDP 178-A-1, Part II)
3. Any damage to County owned rights of way shall be corrected at the developer's expense.
4. Installation of Traffic Control Devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control."
5. Topography was compiled from actual field survey.
6. The area included in this submission is located on Tax Map # 42.
7. All driveways and parking areas to be privately owned and maintained.
8. All coordinates are based on Howard County geodetic control traverse which is based upon the Maryland State Plane Coordinate system.
9. Class "C" Trench bedding shall be used for all storm drainage unless shown otherwise.
10. All downspout drains shall be handled by one or the following methods: A. Downspout to splash blocks and discharge to ground having good percolation. B. Downspout in front of units piped to curb. C. Downspout connected to storm drain.
11. The developer agrees to work with the Department of Licenses and Inspections to resolve any problems caused by roof water discharge.
12. Handicapped Parking Signs shown thus: shall be placed in approximate location shown in plan in accordance with the "Maryland Building Code for the Handicapped" Section 05.01- 07.05.
13. Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location & elev. of the main by digging test pits, by hand, at all utility crossings well in advance of construction.
14. The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 992-2417 or 792-7272.
15. All setbacks & criteria as shown in F.D.P. Phase 178A1, Part II. recorded in Plat No 3054 A-493.

LEGEND:

1. Existing Contour (2 Ft. Interval) ---------- 330
2. Proposed Contour ---------- 330
3. Spot Elevation +305
4. Direction of Drainage
5. Exist. Trees to be retained.
6. Paving Section for Eden Brook Drive
7. Concrete Paving Section (Compactor Area)
8. Paving Section for Private Drive (Compactor Area)
9. [H] Indicated Unit for the Handicapped.

REVISION NOTE:
8-15-83 - Dimensions of Sweet Hours Way entrance changed from 24' to 22' with the center island widened from 10' to 14'.

PLAT REFERENCE: PLAT Nos. 4901, 4962, 5220, 5230

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED W.R.M.C.	SITE DEVELOPMENT PLAN PARCEL "D"
DRAWN K.I.W.	COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
CHECKED W.R.M.C.	PREPARED FOR: EDEN BROOK PARTNERSHIP Long Reach Village Center Suite 232 8776 Cloud Leap Ct. Col. Md. 21045
DATE 3-31-83	SCALE 1"=30' · DRAWING 10 of 16 · JOB NO. 82-054 · FILE NO. 82-054-X

SDP 83-91-C

D-3381