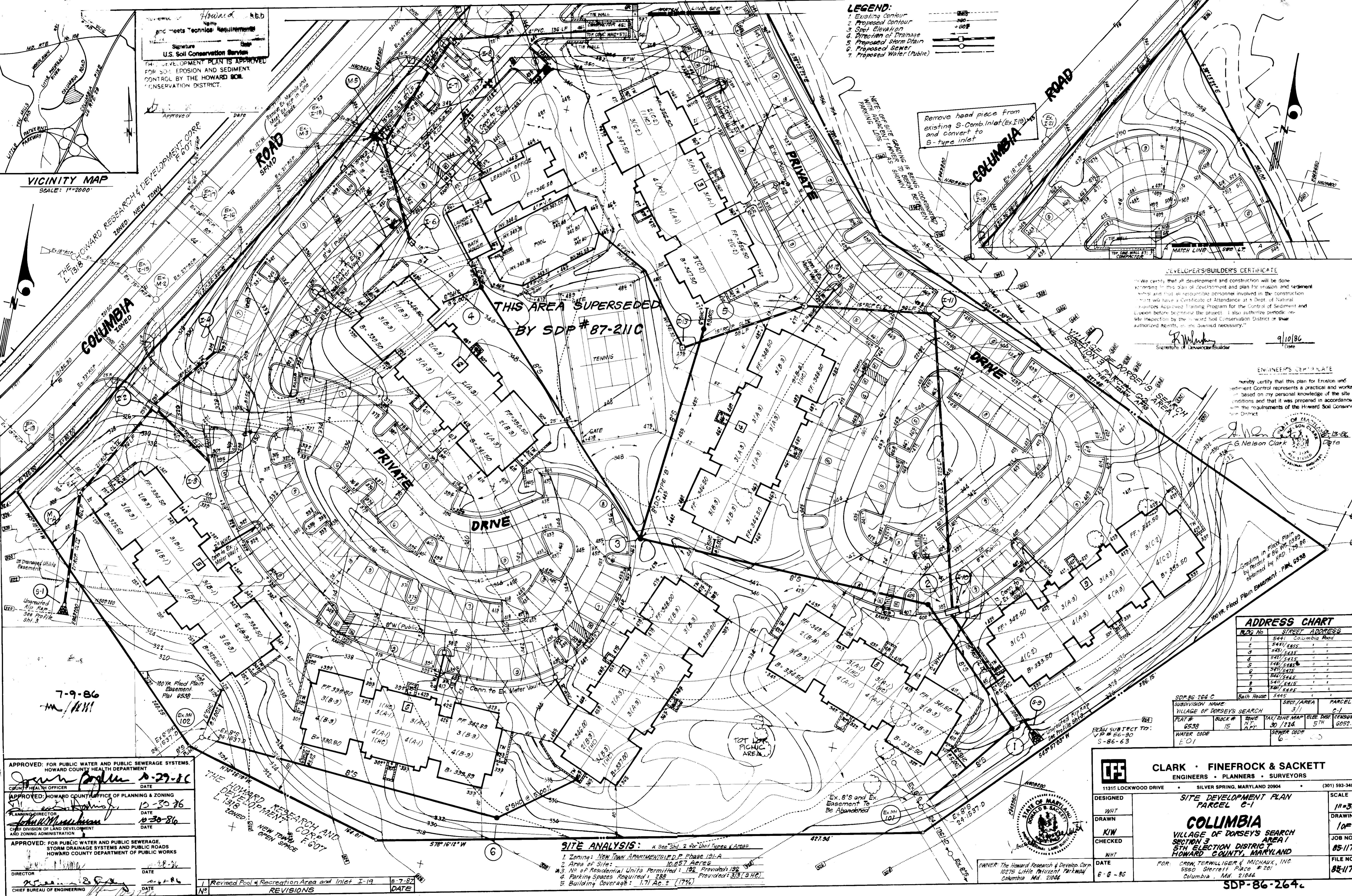


Howard 86.6
 Name
 and meets Technical Requirements
 Signature
 U.S. Soil Conservation Service
 THE DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.

VICINITY MAP
 SCALE: 1"=2000'

LEGEND:
 1. Existing Contour
 2. Proposed Contour
 3. Spot Elevation
 4. Direction of Drainage
 5. Proposed Storm Drain
 6. Proposed Sewer
 7. Proposed Water (Public)



DEVELOPER'S/BUILDER'S CERTIFICATE
 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
 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 deemed necessary.
 Signature of Developer/Builder
 Date 9/10/86

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 Conserva-
 tion District.
 Signature of Engineer
 Date 9/10/86

ADDRESS CHART

BLDG No	STREET ADDRESS
1	5441 Columbia Road
2	5441/5445
3	5443/5445
4	5441/5445
5	5441/5445
6	5441/5445
7	5441/5445
8	5441/5445
9	5441/5445
10	5441/5445
11	5445
12	5445

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 8-29-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 10-30-86
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 8-28-86
 CHIEF BUREAU OF ENGINEERING DATE 8-28-86

SITE ANALYSIS:
 1. Zoning: NEW TOWN APARTMENTS; P.P. Phase 191A
 2. Area of Site: 10.057 Acres
 3. No. of Residential Units Permitted: 192 Provided: 192
 4. Parking Spaces Required: 288 Provided: 313 (94%)
 5. Building Coverage: 1.71 Ac. ± (17%)

REVISIONS
 1. Revised Pool & Recreation Area and Inlet I-19
 DATE 8-7-87

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

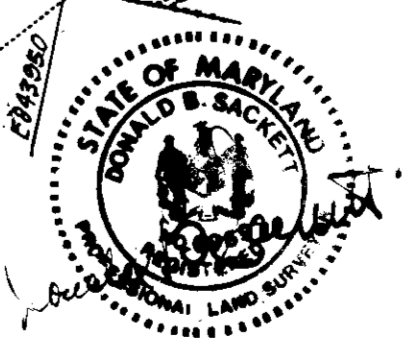
DESIGNED: WHT
 DRAWN: WHT
 CHECKED: WHT
 DATE: 6-8-86

SITE DEVELOPMENT PLAN
 PARCEL C-1
COLUMBIA
 VILLAGE OF DORSEY'S SEARCH
 SECTION 3
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: CROW, TERWILLIGER & MICHAUX, INC.
 5550 Sherrett Place #201
 Columbia, Md. 21044

SCALE: 1/4"=30'
 DRAWING: 10/7
 JOB NO.: 85-117
 FILE NO.: 85-117-SDP-86-264-C

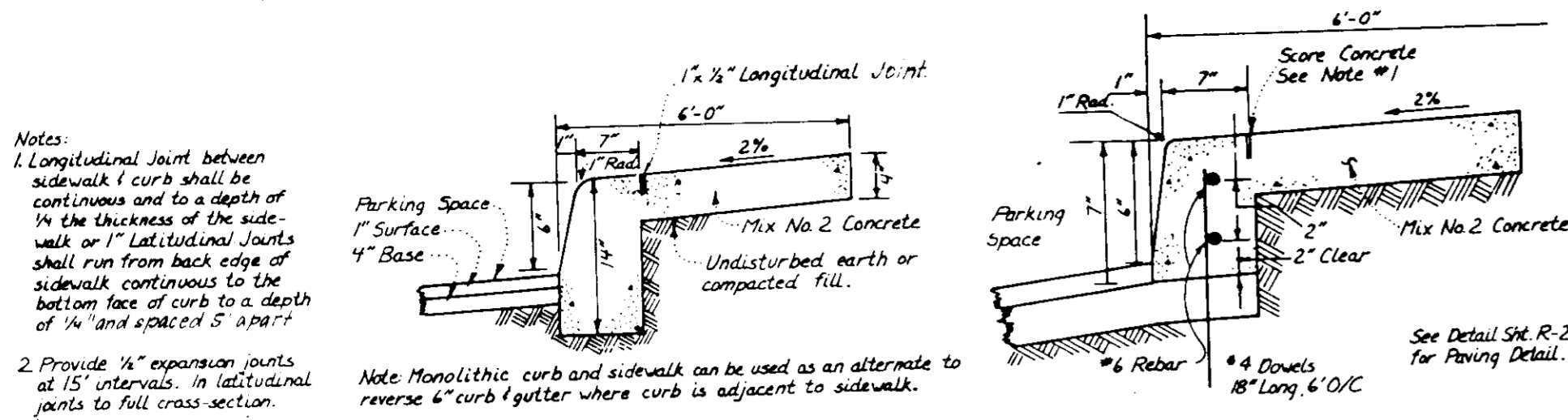
7-9-86
 WHT



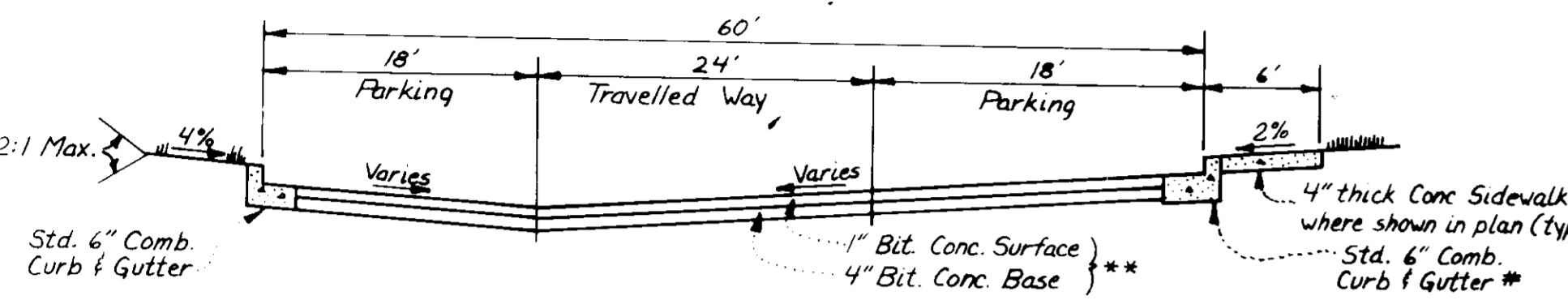
NO	REVISIONS	DATE
1	Revised sewer profile	8-7-87

GENERAL NOTES

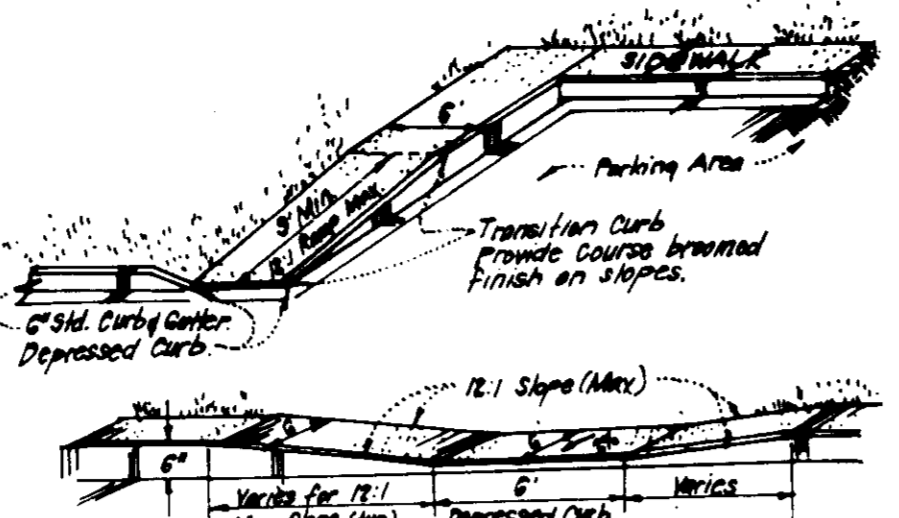
- All materials and construction to be in accordance with Howard County Road Construction Code and Specifications.
- This plan is covered by Final Development Plan Phase 191-A.
- Any damage to county owned rights of way to be corrected at the developer's expense.
- Installation of traffic Control Devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control."
- Topography was compiled from actual field survey.
- The area shown is located on Tax Map 30 Parcel 224.
- All drive ways and parking to be privately owned and maintained.
- All coordinates are based on Howard County Geodetic Control Survey traverse which is based on the Maryland State Plane Coordinate System.
- Traverse Bench Mark for Station Drawings to be 1 with H.C. S.M. 5.201.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location by digging test pits, by hand, at all utility crossings, well in advance of construction.
- The contractor or developer shall contact the Construction Inspection, Survey Division 24 hrs. in advance of work, 992-2417 or 792-7272.
- All downspout drains shall be handled by one of these methods:
 - Downspout to splash blocks and discharged to ground having good percolation.
 - Downspout in front of Units piped to curb.
 - Downspout connected to storm drain.
- The developer agrees to work with the Dept. of Licenses & Inspection to resolve any problems caused by roof water discharge.
- Handicap Parking Details shall be in accordance with the Maryland Building Code for the Handicapped, Sect. 5.01-7.05 and details sht. 2.
- All setbacks requirements and criteria as shown in F.D.P. 191-A.
- Storm Water Management Provided in Central Facility, F. 86-26.
- All parking islands shall be mounded at ±5:1 slopes.



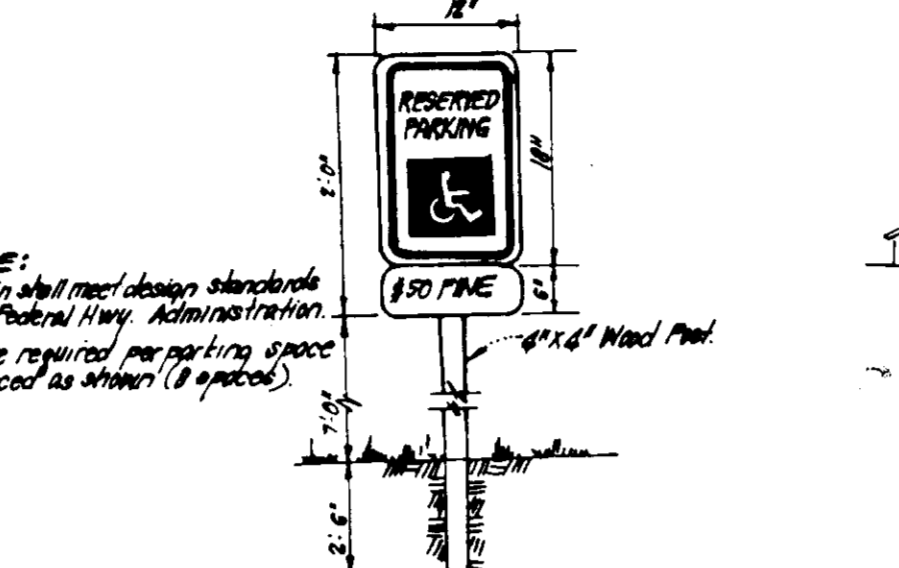
MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA
NO SCALE



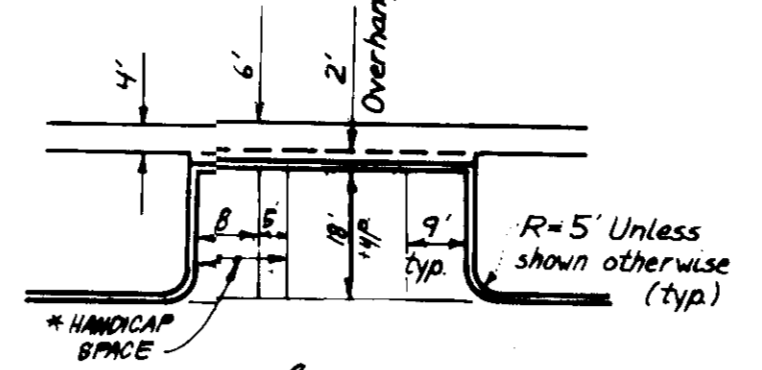
TYPICAL SECTION PRIVATE DRIVE & PARKING
NO SCALE



HANDICAP RAMP DETAILS
NO SCALE

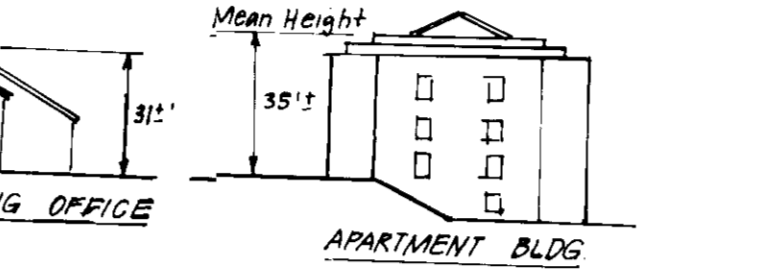


HANDICAP PARKING SIGN DETAIL
NO SCALE

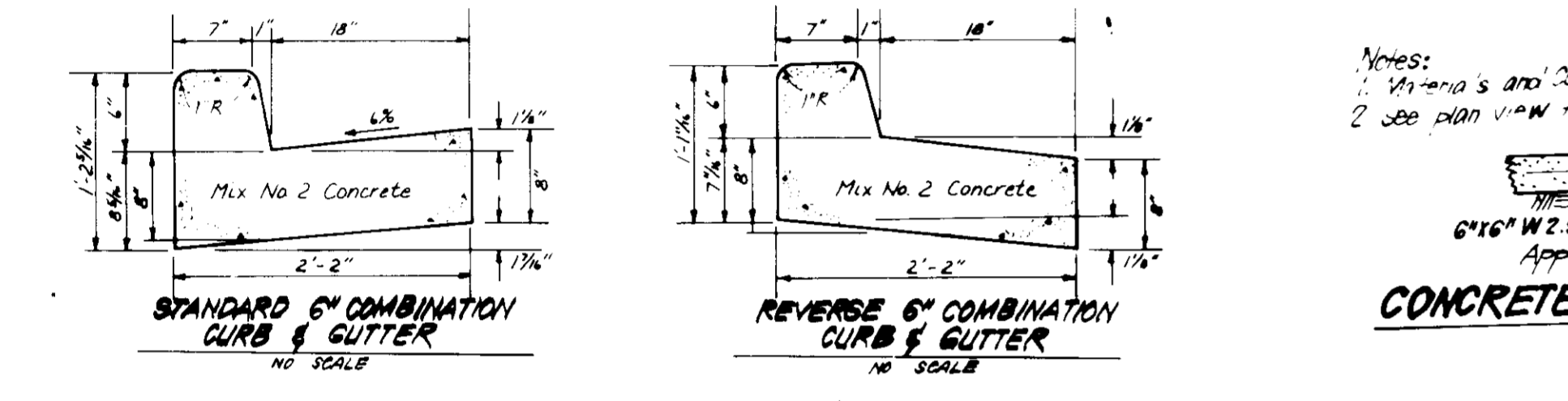


TYPICAL PARKING
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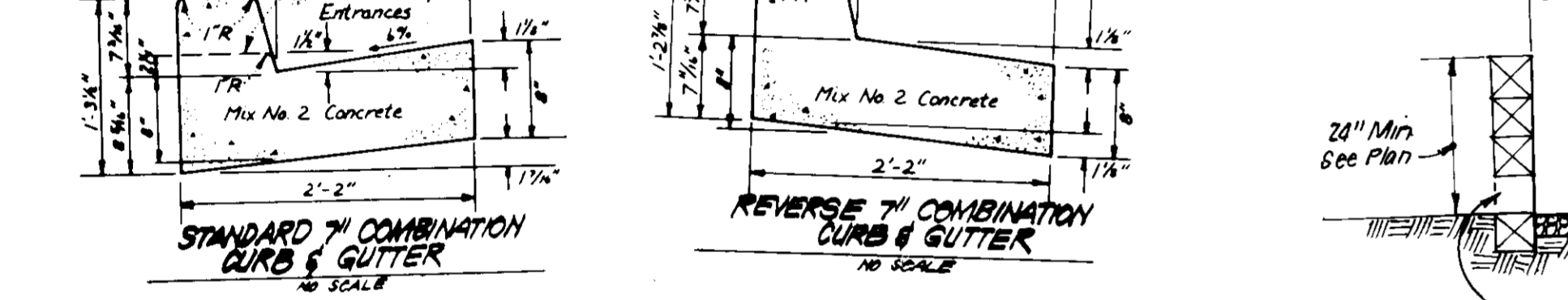
* Two 8' Handicap Spaces may share One 5' Aisle



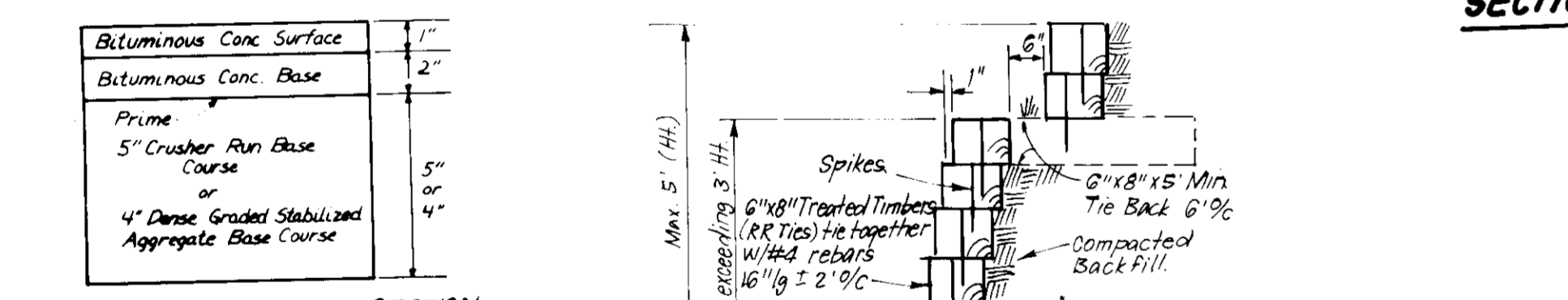
TYPICAL ELEVATIONS
NO SCALE



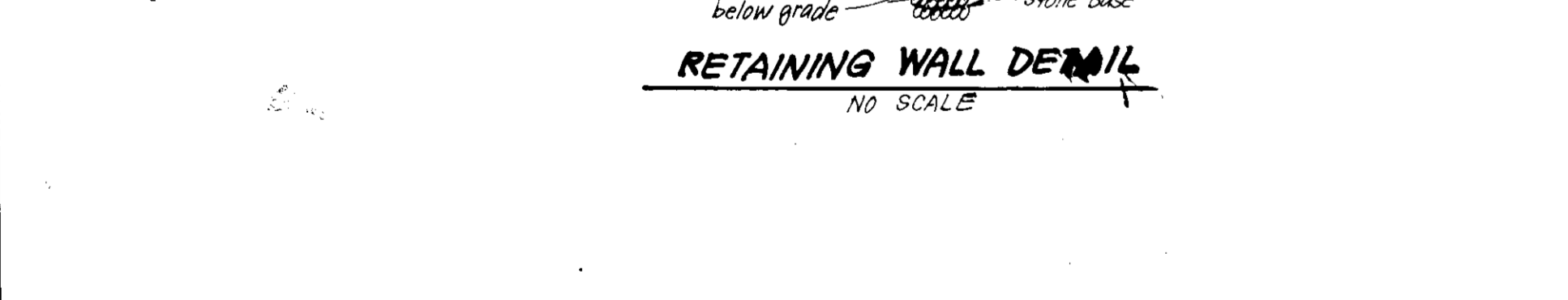
STANDARD 6" COMBINATION CURB & GUTTER
NO SCALE



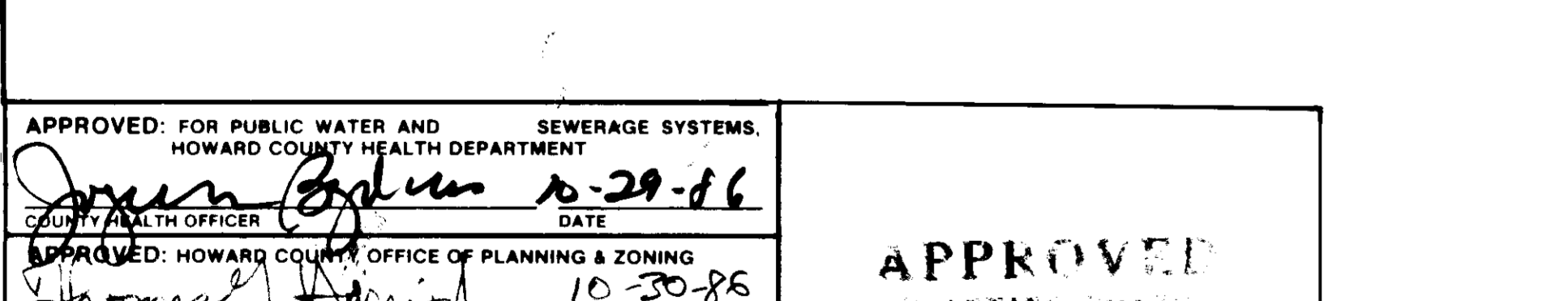
REVERSE 6" COMBINATION CURB & GUTTER
NO SCALE



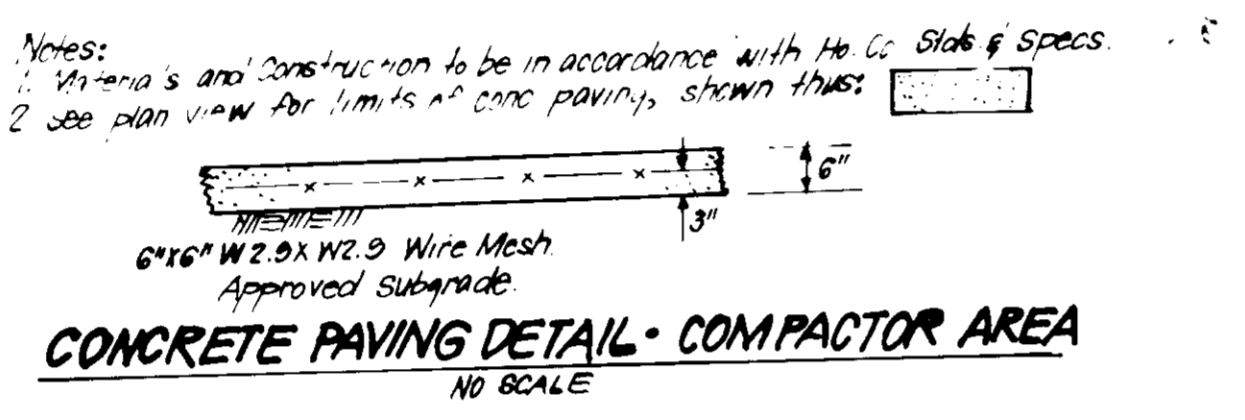
STANDARD 7" COMBINATION CURB & GUTTER
NO SCALE



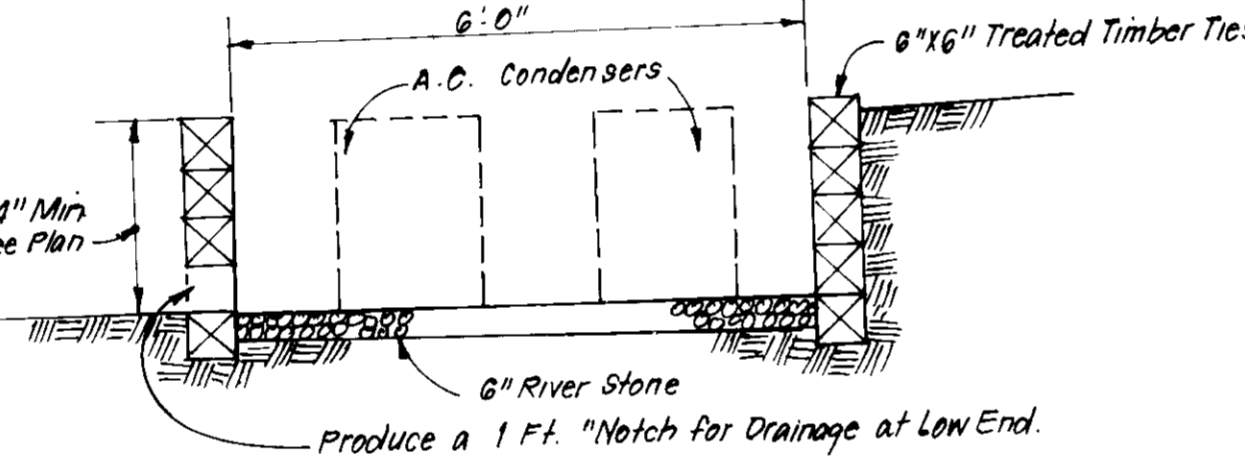
REVERSE 7" COMBINATION CURB & GUTTER
NO SCALE



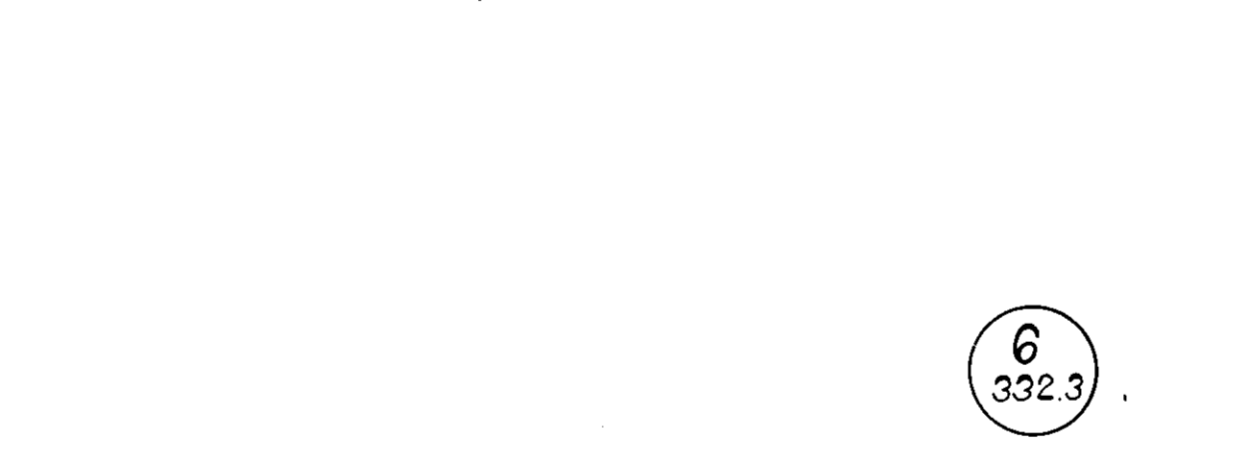
RETAINING WALL DETAIL
NO SCALE



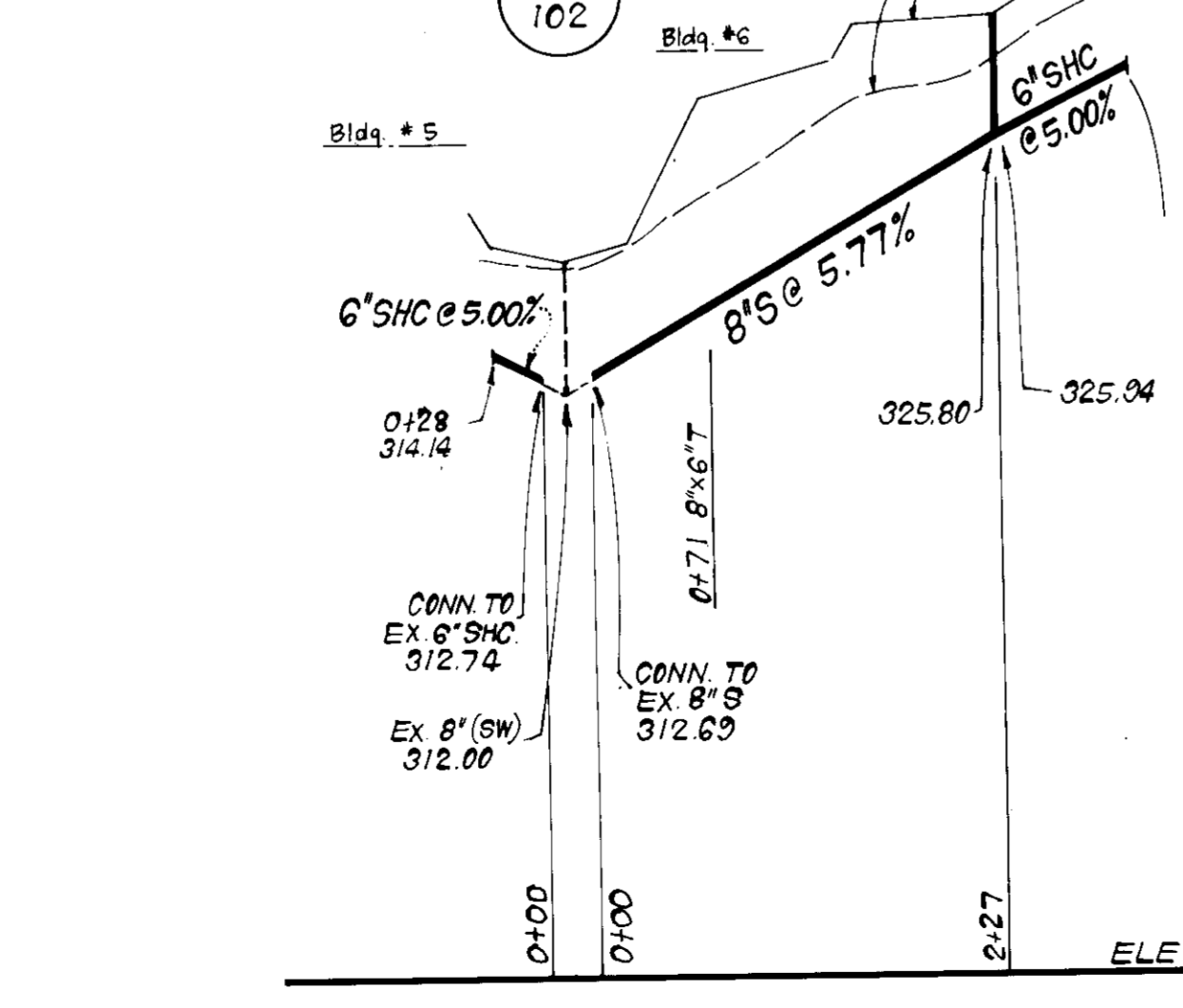
CONCRETE PAVING DETAIL - COMPACTOR AREA
NO SCALE



SECTION - A.C. CONDENSORS ENCLOSURES
NO SCALE



SUPERSEDED BY SDP# 87-211C



WATER & SEWER PROFILES
SCALE: HOR. 1"=100' VERT. 1"=10'

WATER AND SEWER NOTES

- All Sewer Mains shall be PVC, C.S.P.X., V.C.P.X. or A.C.P. class 2400 except where indicated.
- All construction methods and materials for on-site private water and sewer systems shall follow the current edition of the Howard County Plumbing Code supplemented by the Howard County Std Details and Specifications where necessary.
- All Water House Connections shall have a minimum of 3.5' of cover.
- Sewer House connections shall be built to within 5ft. of buildings at the slope shown.

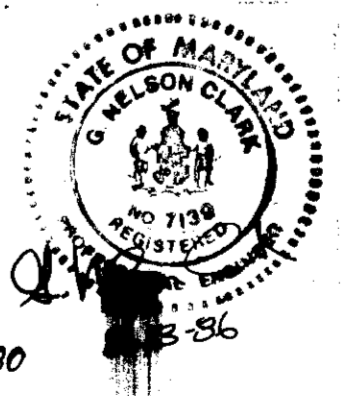
BLDG NR	BLDG TYPE	UNIT TYPES					TOTAL
		A-1	A-3	B-1	B-3	C-2	
1	LEASING OFFICE						
2	2-STORY W/ BASEMT		10		10		20
3	2 1/2-STORY W/ BASEMT					10(LHC)	24
4	3-STORY W/ BASEMT		12		12		24
5	3-STORY W/ BASEMT				14(LHC)	14	28
6	2 1/2-STORY W/ BASEMT		12		10		24
7	2 1/2-STORY W/ BASEMT		10		10		20
8	2 1/2-STORY W/ BASEMT					10(LHC)	24
9	3-STORY W/ BASEMT		12			14	28
TOTAL		42	46	14	66	24	192 (LHC UNITS)

UNIT SQUARE FOOTAGE ANALYSIS	
UNIT TYPE	AREA (SF)
A-1 (1 BR)	635 SF
A-3 (1 BR)	780 SF
B-1 (1 BR)	255 SF
B-3 (1 BR)	180 SF
C-2 (3 BR)	135 SF

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. DATE: 10-29-86.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. DATE: 10-30-86.

APPROVED: FOR PUBLIC WATER AND SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: 7-9-86.



OWNER: The Howard Research & Develop. Corp, 10275 Little Patuxent Parkway, Columbia, Md. 21044.

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

DESIGNED: [Signature] DATE: 10-29-86

DRAWN: [Signature] DATE: 10-30-86

CHECKED: [Signature] DATE: 10-30-86

DATE: 5-27-86

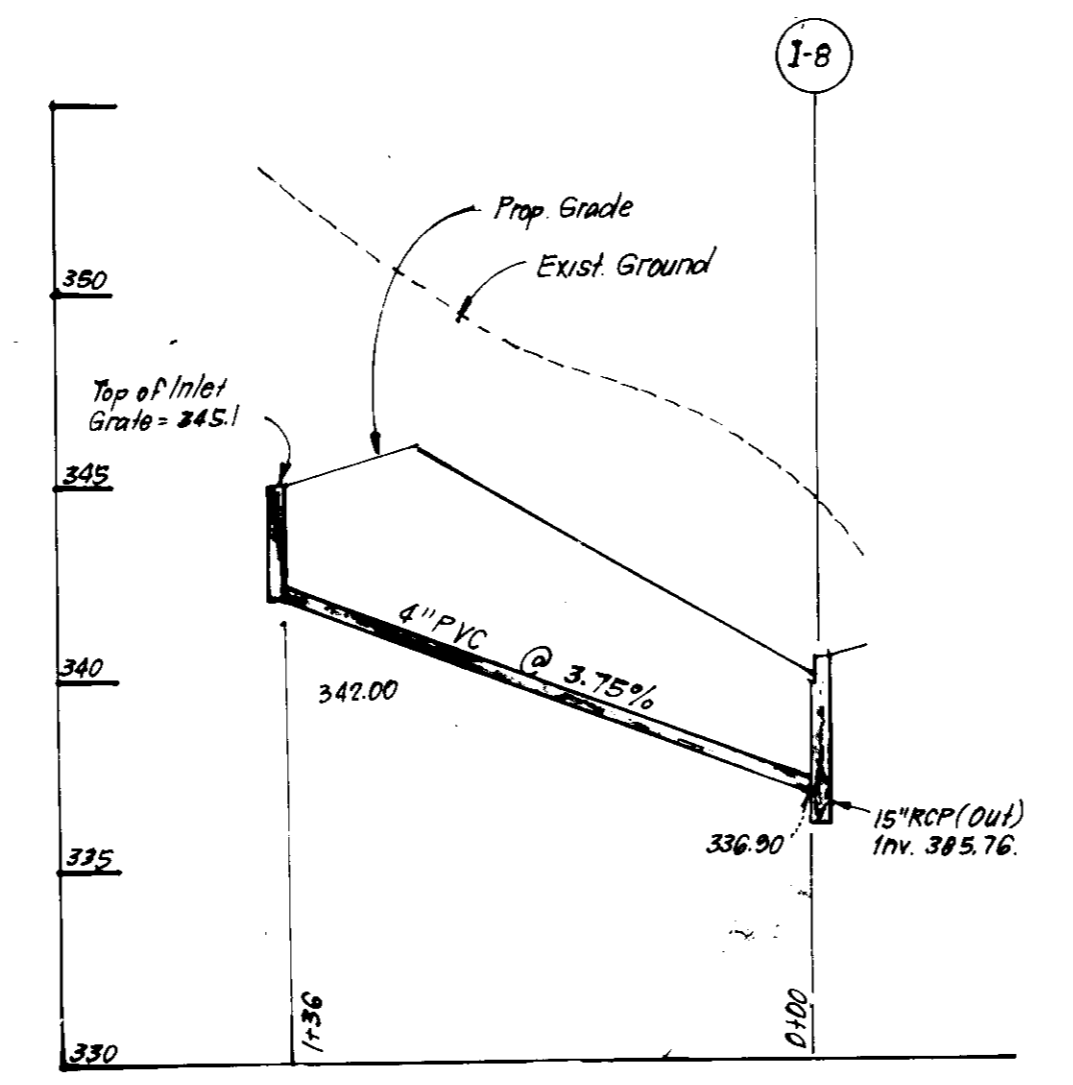
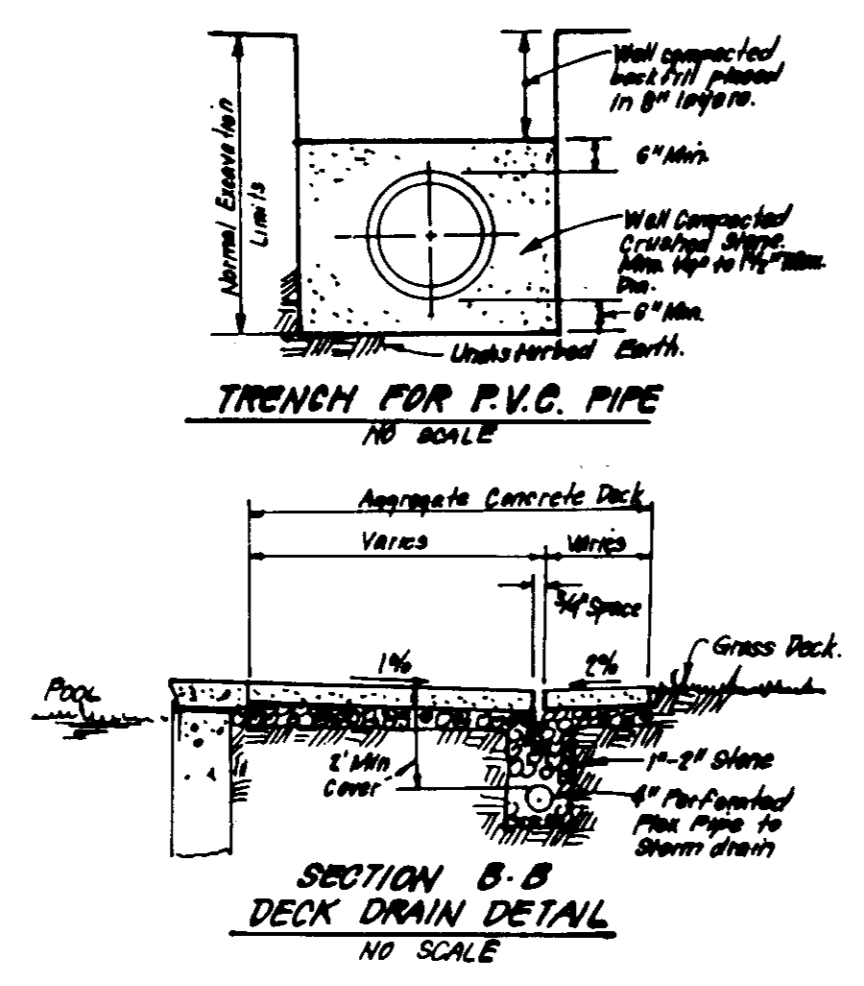
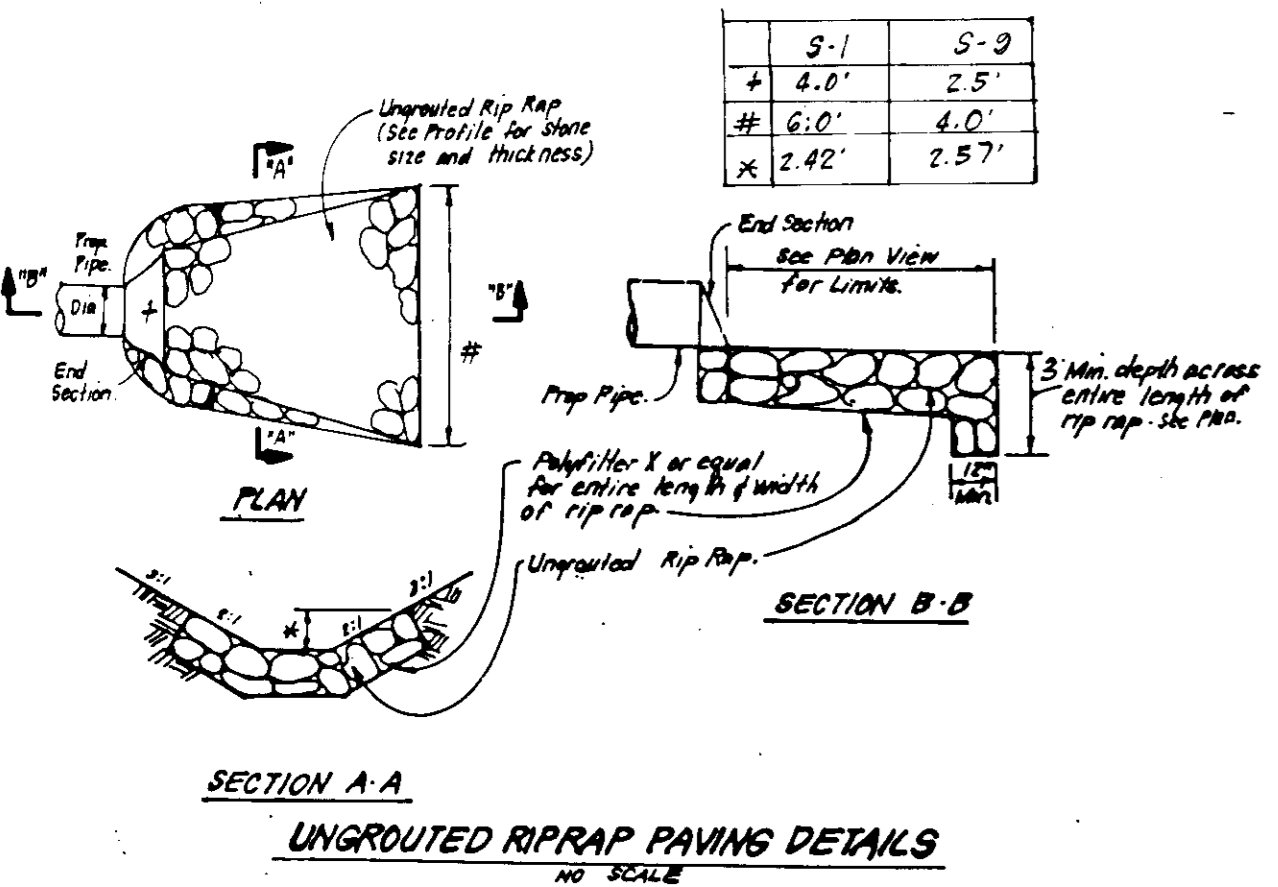
SITE DEVELOPMENT PLAN PAVING DETAILS AND SEWER PROFILES
SCALE: 1"=30'

COLUMBIA
VILLAGE OF DORSEYS SEARCH SECTION 3
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: CRAM, TERWILLIGER & MICHAUX, INC, 5550 Sherrett Place #201, Columbia, Md. 21044.

FILE NO. 82-117-X

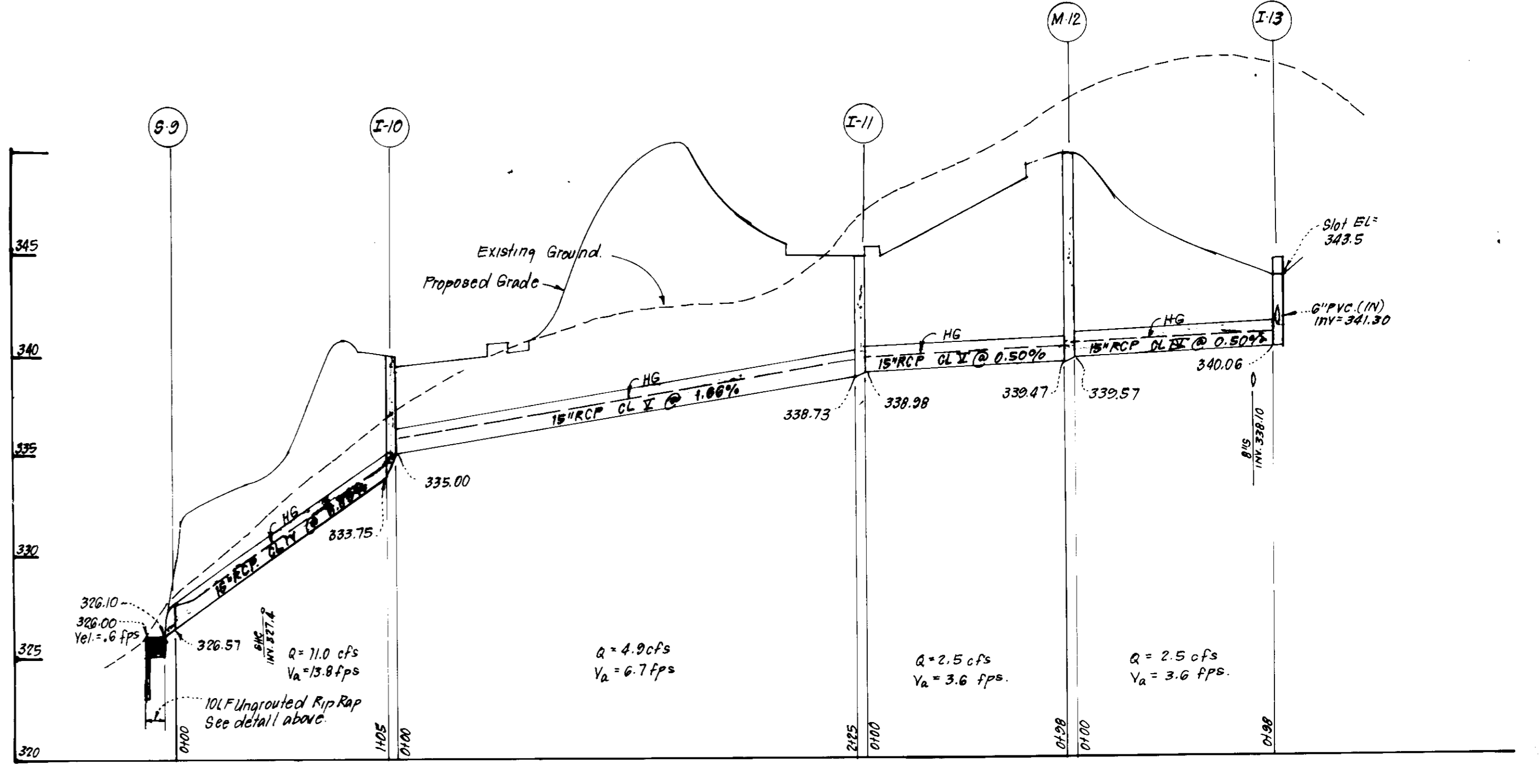
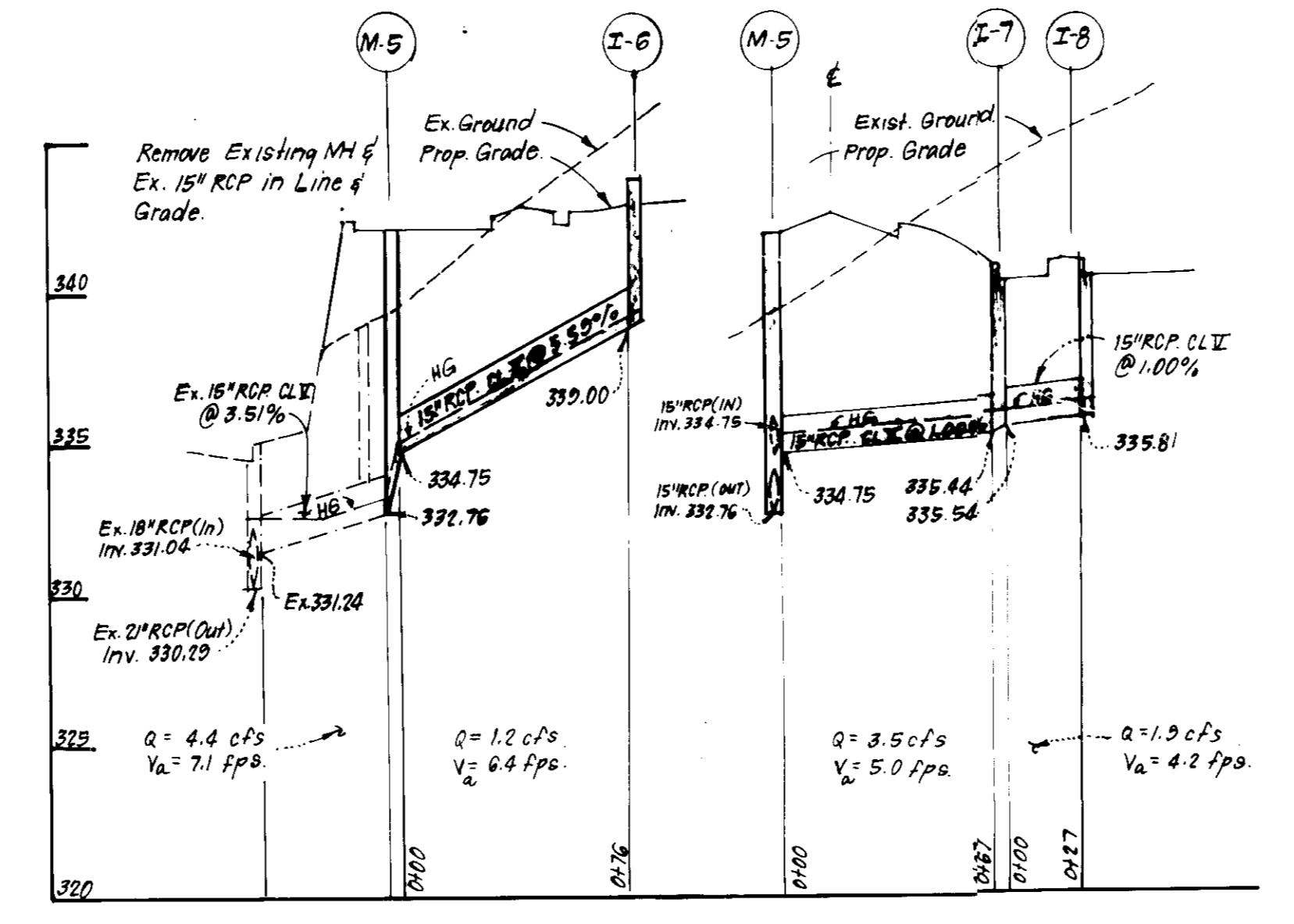
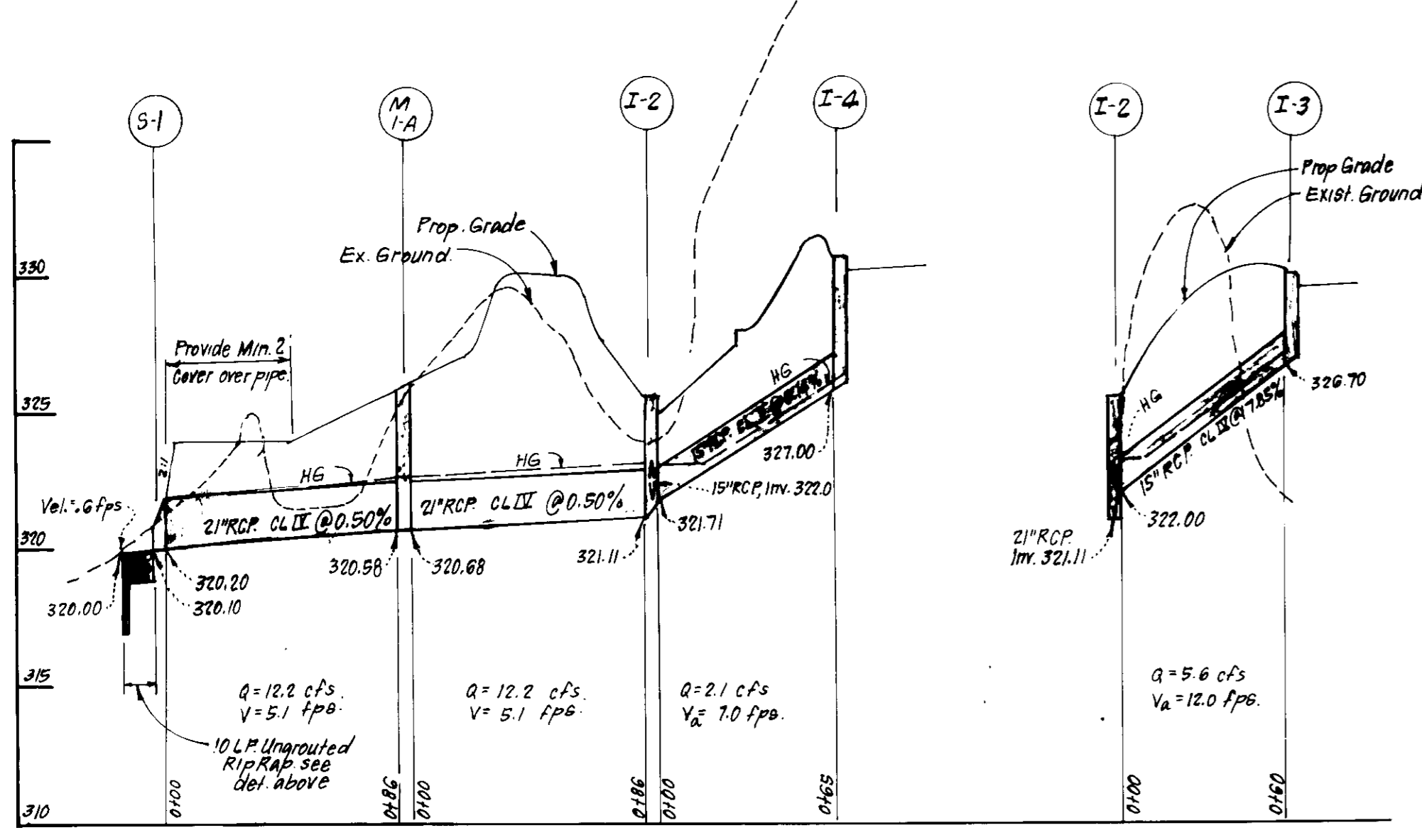
SDP-86-264



SIZE	TYPE	LENGTH
15"	RCP CL IV	263 LF
15"	RCP CL V	570 LF
21"	RCP CL IX	166 LF
4"	PVC	178 LF
6"	PVC	115 LF

No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION	REMARKS	LOCATION
S-1	Concrete End Section	320.20	320.10	326.00	Ho. Co. Std. SD 5.51	21" Dia See Plan
M-1A	Shallow Brick Manhole	320.68	320.58	325.74	G 5.05	48" Sq "
I-2	A-10 Inlet w/Deflectors	321.11/321.00	321.11	325.30	SD 4.02	W=2'6" "
I-3	A-10 Inlet	-	327.50	330.00	SD 4.02	W=2'6" "
I-4	A-10 Inlet	-	327.00	330.92	SD 4.02	W=2'6" "
M-5	Brick Manhole	324.75/324.75	322.76	342.19	G 5.01	48" Dia "
I-6	D Inlet	-	339.00	343.83	SD 4.11	2'6" Sq "
I-7	A-5 Inlet w/Deflectors	335.54	335.44	340.88	SD 4.01	2'6" Sq "
I-8	S Comb. Inlet	-	335.81	341.18	SD 4.32	2-7" x 3'5" "
I-9	Concrete End Section	326.51	326.10	-	SD 5.51	15" Dia "
I-10	A-10 Inlet	335.00	333.75	339.70	SD 4.02	W=2'6" "
I-11	A-5 Inlet w/Deflectors	338.88	338.73	345.06	SD 4.01	W=2'6" "
M-12	Brick Manhole	339.57	339.47	349.67	G 5.01	48" Dia "
I-13	D Inlet	-	340.06	344.33	SD 4.11	2'6" Sq "

**SUPERSEDED BY
SDP # 87-211 C**



**SUPERSEDED BY
SDP # 87-211 C**

STORM DRAIN PROFILES

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. *[Signature]* DATE 10-29-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. *[Signature]* DATE 10-30-86

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. *[Signature]* DATE 10-20-86

APPROVED: PLANNING BOARD OF HOWARD COUNTY. DATE 7-9-86

DEVELOPER'S/BUILDER'S CERTIFICATE. We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control...

[Signature] DATE 9/10/86

ENGINEER'S CERTIFICATE. I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan...

[Signature] DATE 9/22/86

1 Revised Storm Drainage Profiles 8-7-87

REVISIONS

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400

DESIGNED: MCB/WHY SCALE: 11=30'

DRAWN: KIW DRAWING: 30=7

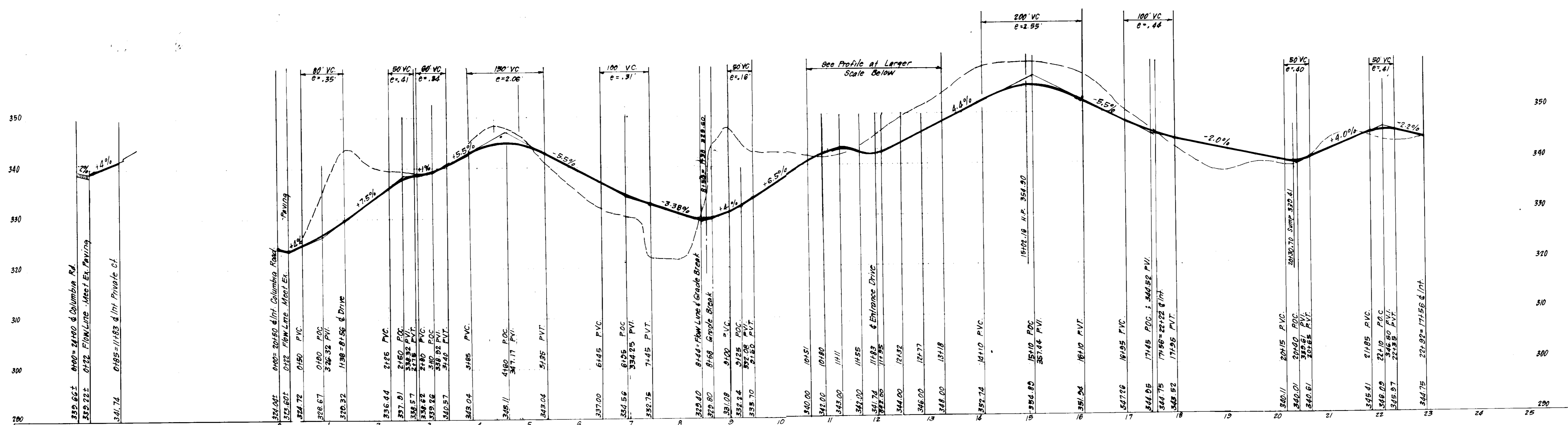
CHECKED: MCB/WHY JOB NO.: 85-117

DATE: 6-6-86 FILE NO.: 85-117-X

OWNER: The Howard Research & Develop. Corp. 10275 Little Patuxent Parkway Columbia, Md. 21044

FOR: CROWN TERRILLIGER & MICHAUX, INC. 5550 Stearns Place # 201 Columbia, Md. 21044

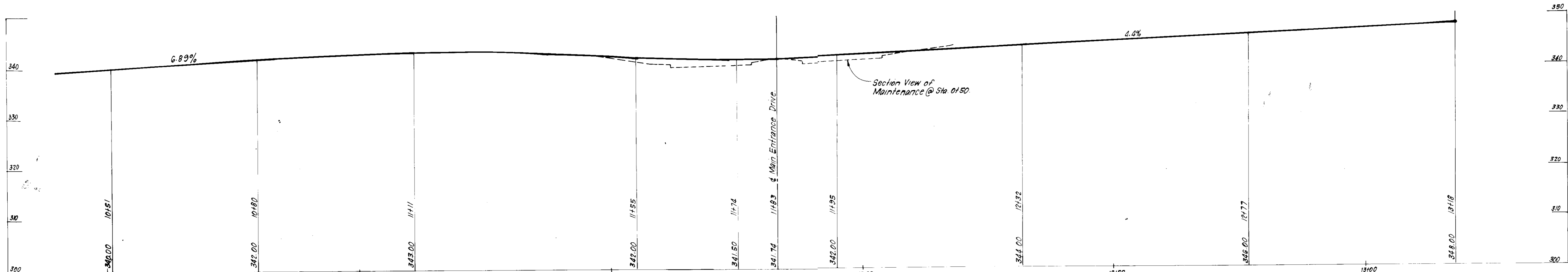
SDP-86-264.



MAIN ENTRANCE

PROFILE ALONG & OF PRIVATE DRIVE

SCALE: HORIZ. 1"=100'
VERT. 1"=10'



ENTRANCE DRIVE ROAD PROFILE - STA 10+50 to 13+00

SCALE: HORIZ. 1"=10'
VERT. 1"=10'

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

APPROVED: PLANNING DEPARTMENT OF HOWARD COUNTY



CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 583-3400

DESIGNED: WHI
DRAWN: WHI
CHECKED: WHI
DATE: 6-6-86

**SITE DEVELOPMENT PLAN
PROFILE OF PRIVATE DRIVE
PARCEL 0-1
COLUMBIA**

VILLAGE OF DORSEY'S SEARCH
SECTION 3
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: ORW, TERWILLIGER & MICHAUX, INC.
5550 Sherrett Place #201
Columbia, Md. 21044

SCALE: 1"=30'
DRAWING: 4 OF 7
JOB NO.: 85-117
FILE NO.: 85-117-X

SDP-86-264

Reviewed for Name and meets Technical Requirements
 Signature: [Signature]
 Date: 10-29-86
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS SUBMITTED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DISTRICT

VICINITY MAP
 SCALE: 1"=2000'

- LEGEND:**
- Existing Contour
 - Proposed Contour
 - Spot Elevation
 - Direction of Drainage
 - Proposed storm Drain
 - Proposed Sewer
 - Proposed Water (Public)
 - Show Baffle Dike or S-14 Inlet
 - Earth Dike
 - Inlet Protection Detail
 - Stabilized Construction Entrance

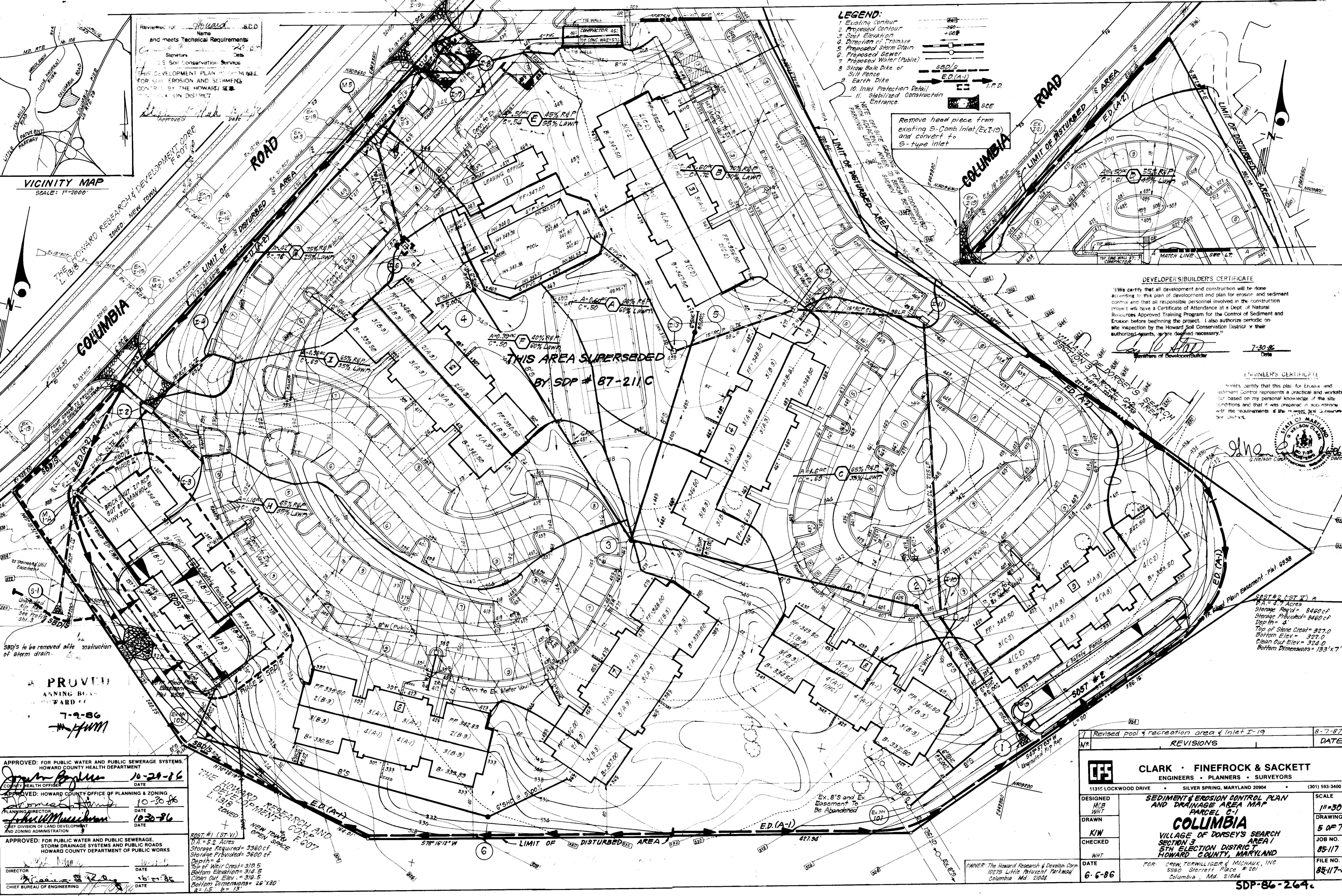
Remove head piece from existing S-Comb Inlet (Ex I-10) and convert to S-type inlet

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 may be deemed necessary.

Signature of Developer/Builder: [Signature]
 Date: 7-30-86

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 Maryland Soil Conservation Act.

Signature: [Signature]
 Date: 7-30-86



THIS AREA SUPERSEDED BY SDP # 87-211C

PROVIDED
 ANNING BOARD
 HOWARD COUNTY
 7-9-86
 [Signature]

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: [Signature] DATE: 10-29-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Planning Director: [Signature] DATE: 10-30-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: [Signature] DATE: 10-29-86

CHIEF BUREAU OF ENGINEERING
 [Signature] DATE: 10-29-86

ROST #1 (ST-VI)
 D.A. = 5.2 Acres
 Storage Required = 5360 cf
 Storage Provided = 3600 cf
 Depth = 4'
 Top of Weir Crest = 319.5
 Bottom Elevation = 314.5
 Clean Out Elev. = 316.5
 Bottom Dimensions = 26'x80'
 B = 1.5' E = 12'

ROST #2 (ST-V) *
 D.A. = 4.7 Acres
 Storage Required = 8460 cf
 Storage Provided = 8460 cf
 Depth = 4'
 Top of Stone Crest = 327.0
 Bottom Elev. = 322.0
 Clean Out Elev. = 324.0
 Bottom Dimensions = 133'x7'

No.	REVISIONS	DATE
1	Revised pool & recreation area & Inlet I-19	8-7-87

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

DESIGNED: MCB
 WHT
 DRAWN: KIW
 CHECKED: WHT
 DATE: 6-6-86

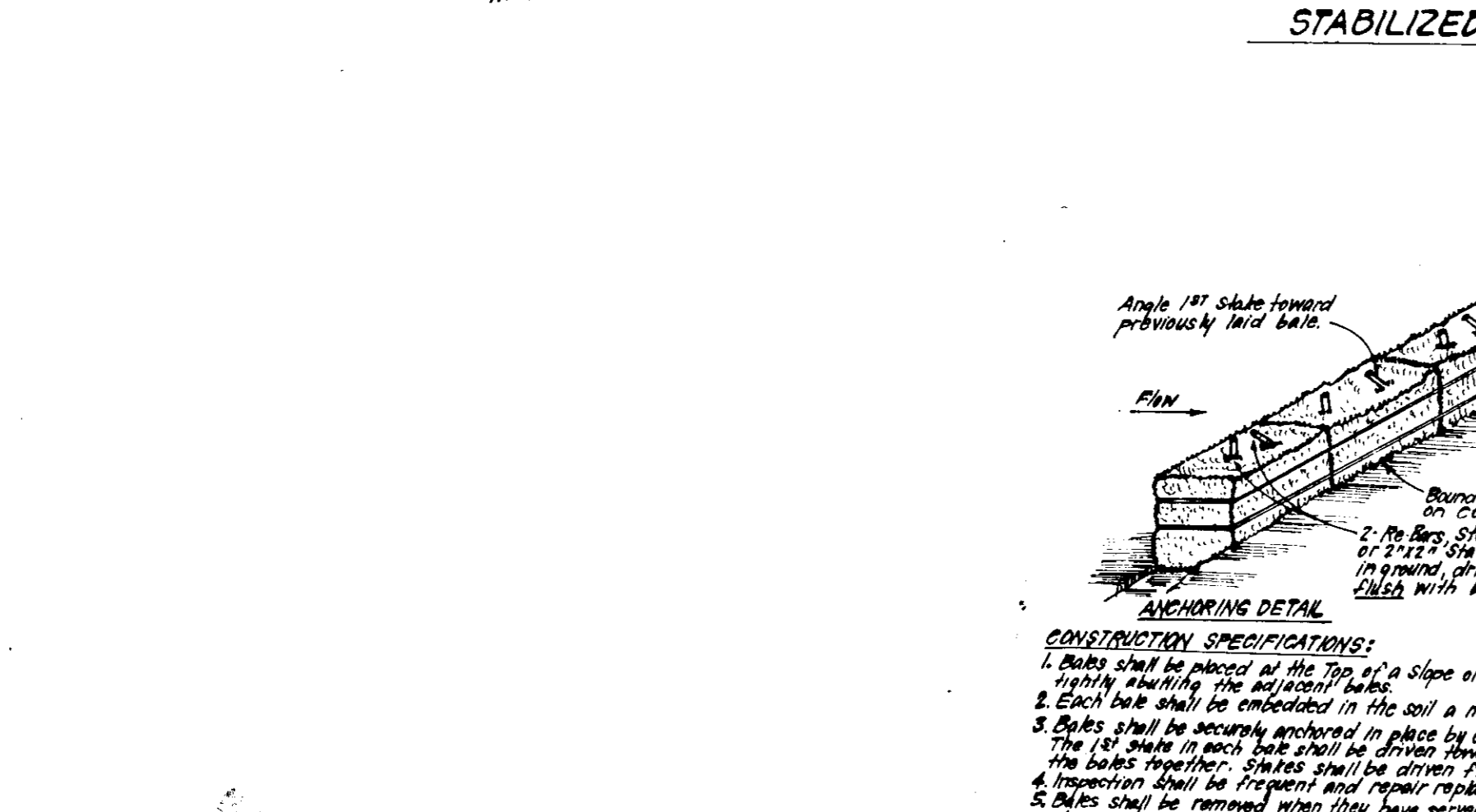
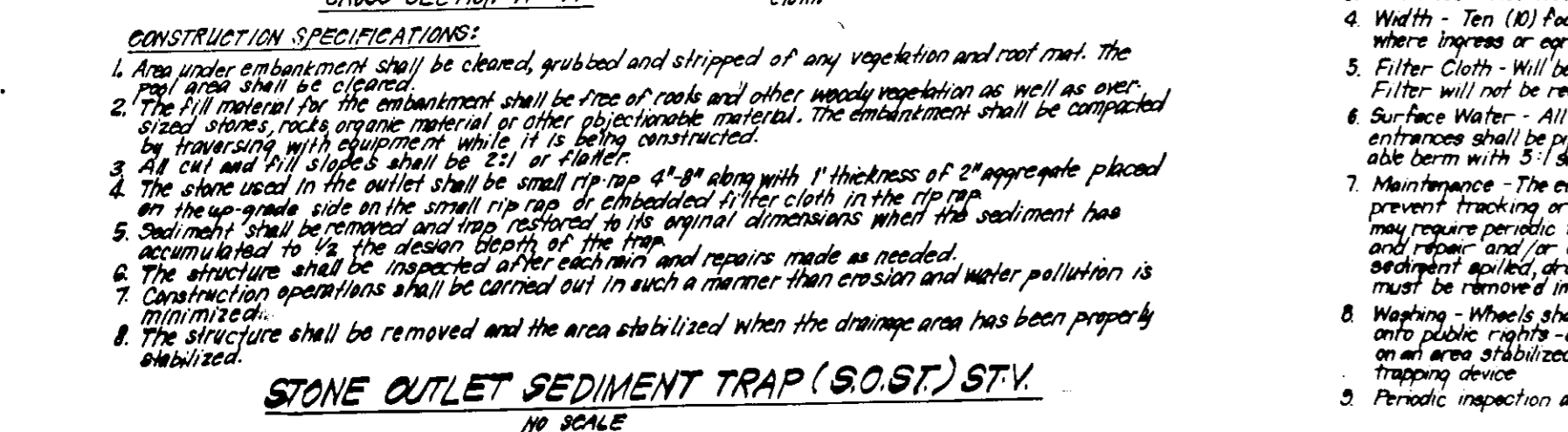
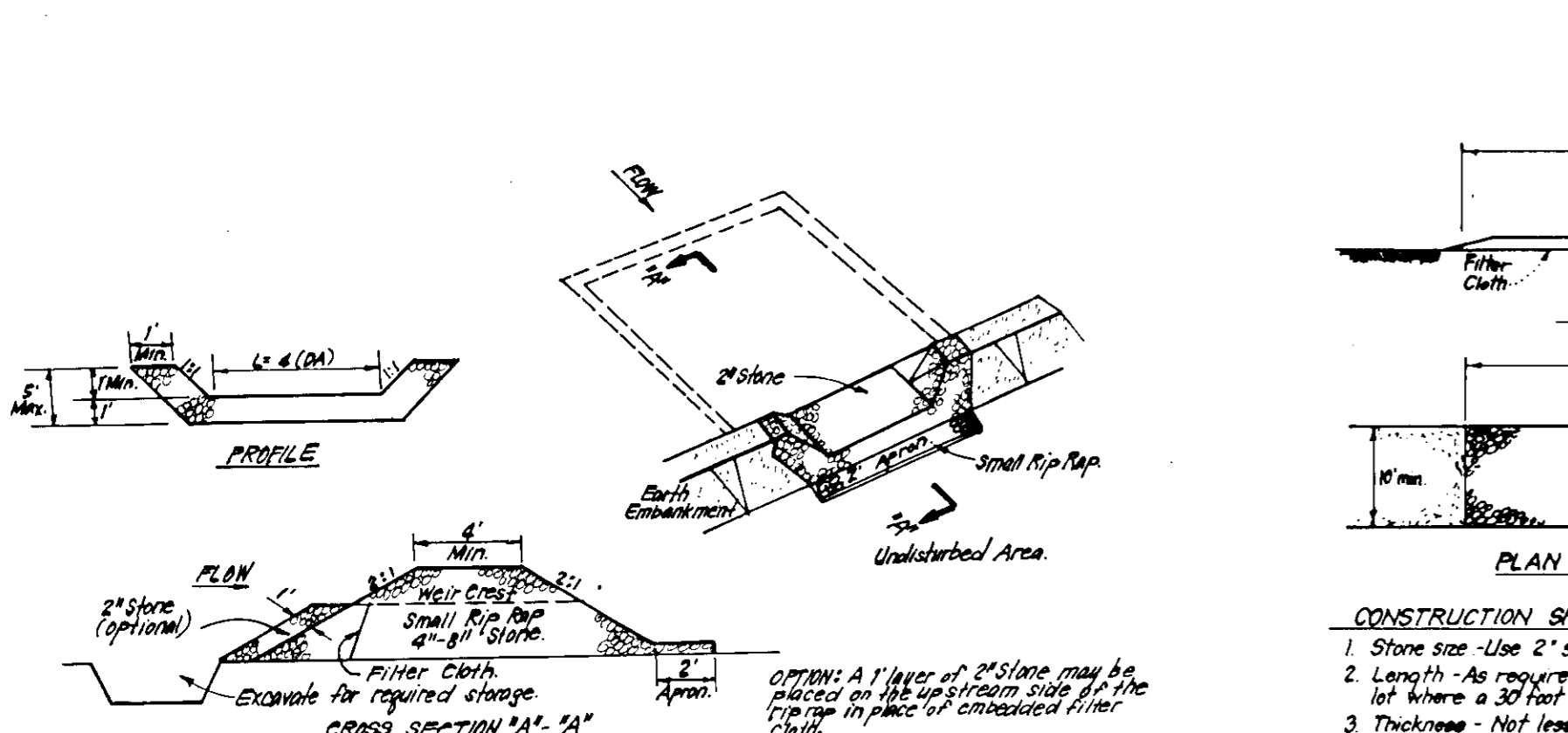
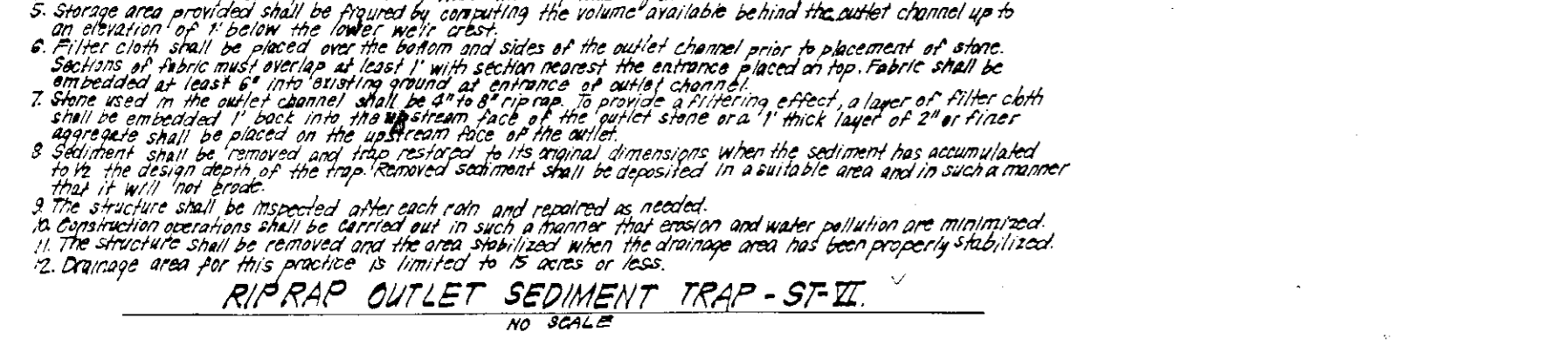
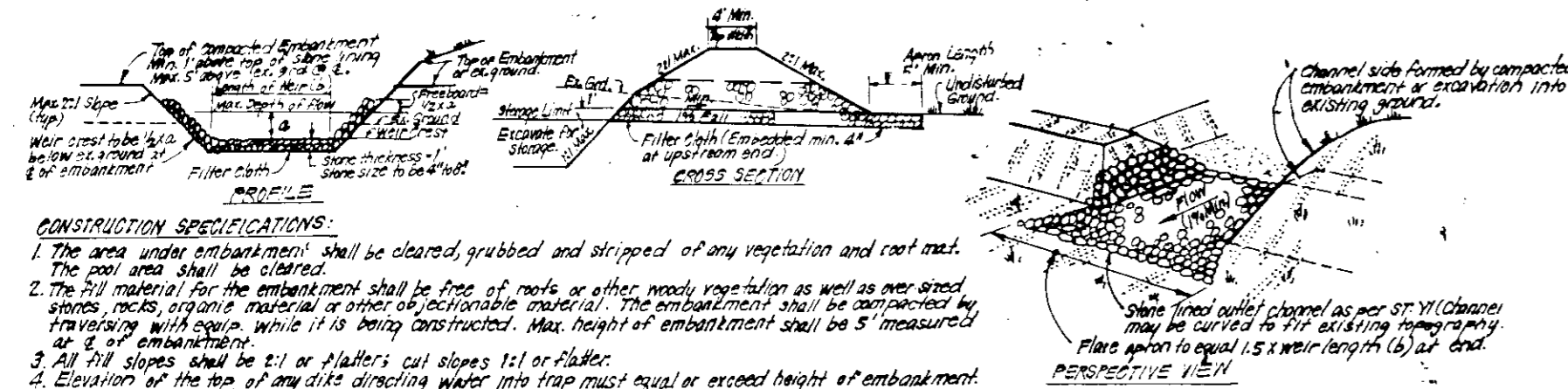
SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP
 PARCEL C-1
COLUMBIA
 VILLAGE OF DORSEY'S SEARCH SECTION 3
 5TH ELECTION DISTRICT AREA 1
 HOWARD COUNTY, MARYLAND

OWNER: The Howard Research & Develop. Corp.
 10275 Little Patuxent Parkway
 Columbia, Md. 21044

FOR: CRIM, TERWILLIGER & MIDHAUX, INC.
 5550 Sterrett Place # 201
 Columbia, Md. 21044

SCALE: 1"=30'
 DRAWING: 5 OF 7
 JOB NO.: 85-117
 FILE NO.: 85-117-5E

SDP-86-264



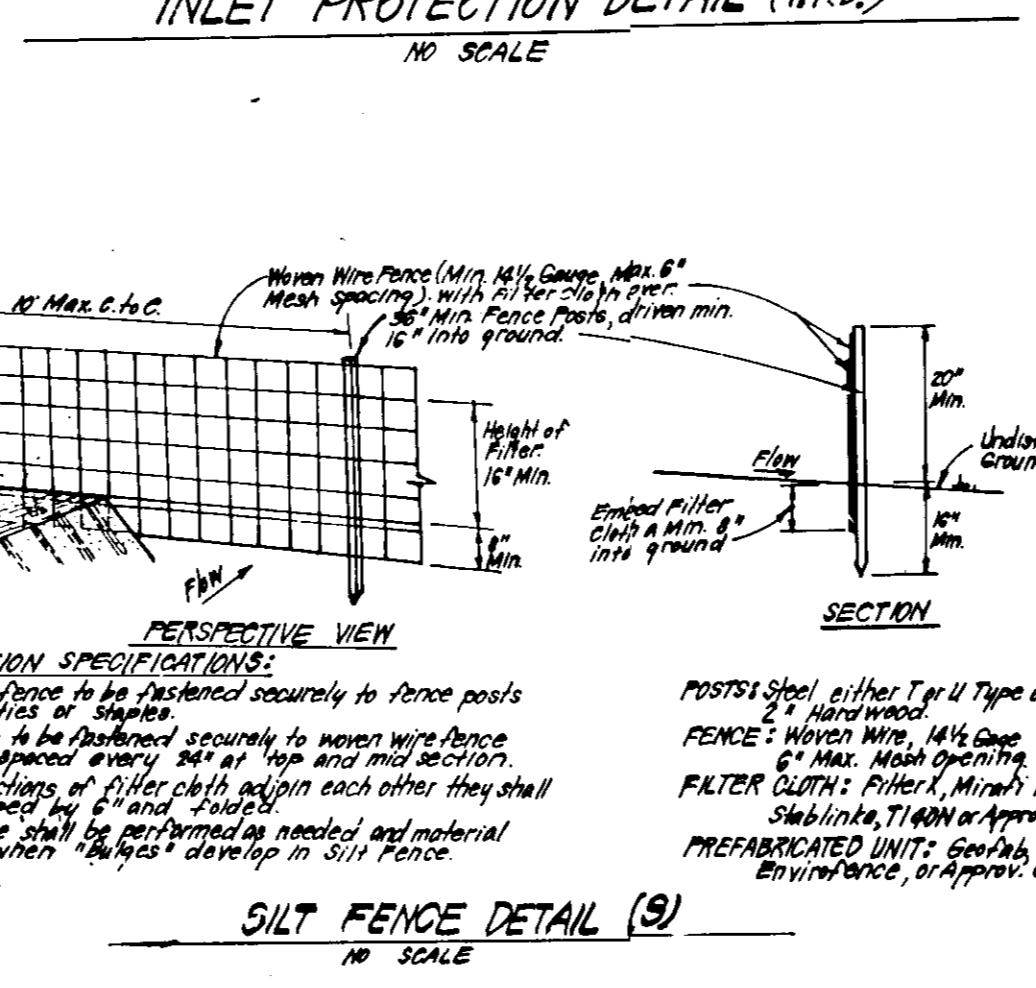
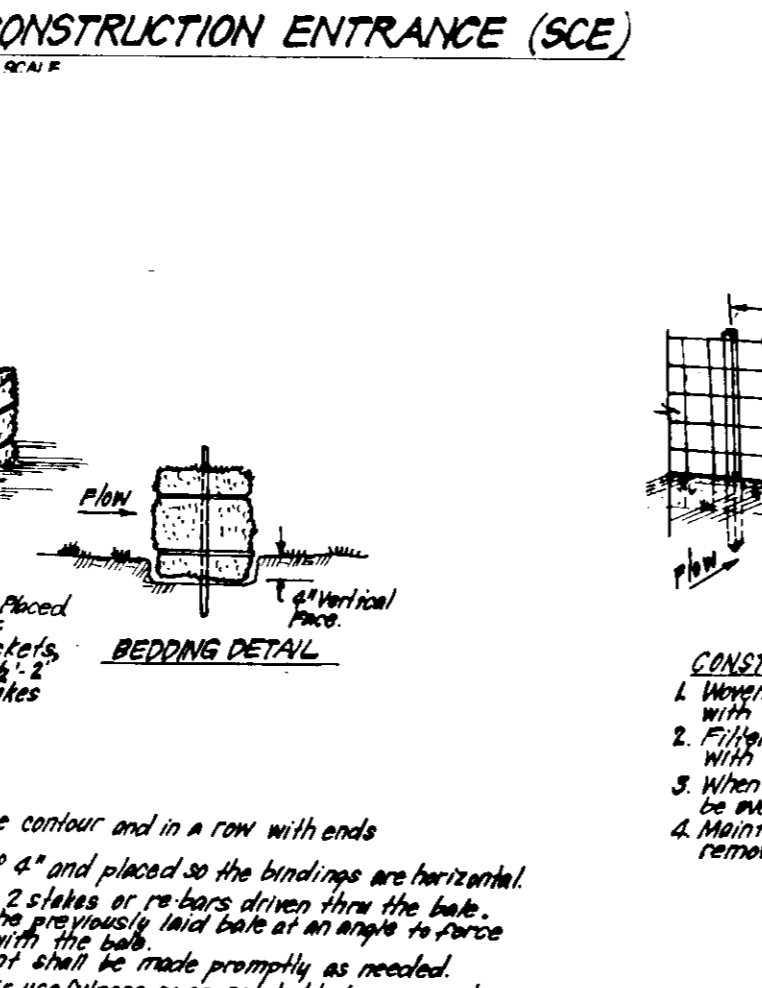
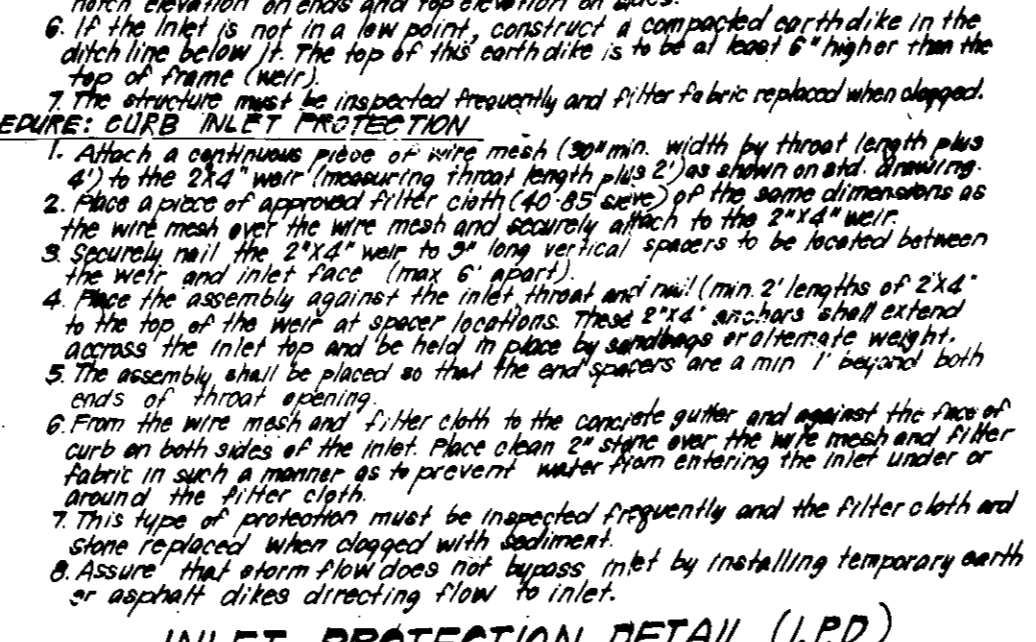
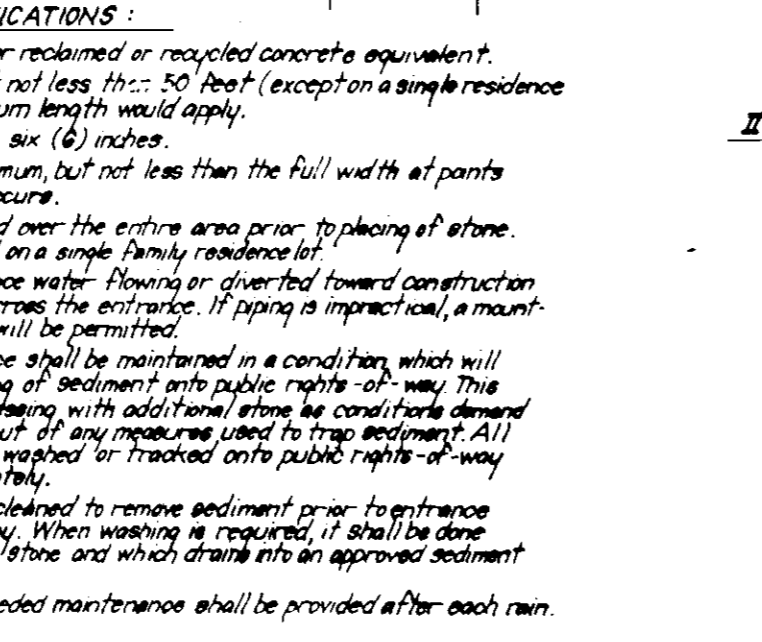
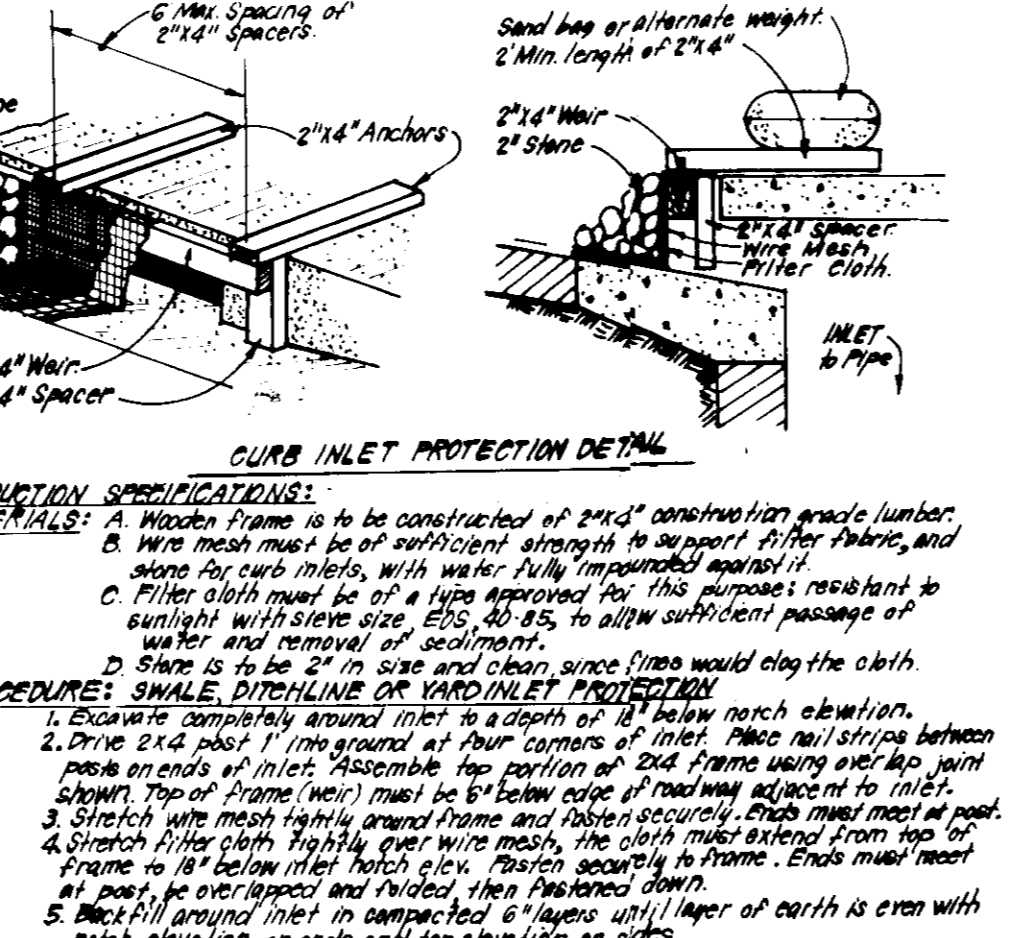
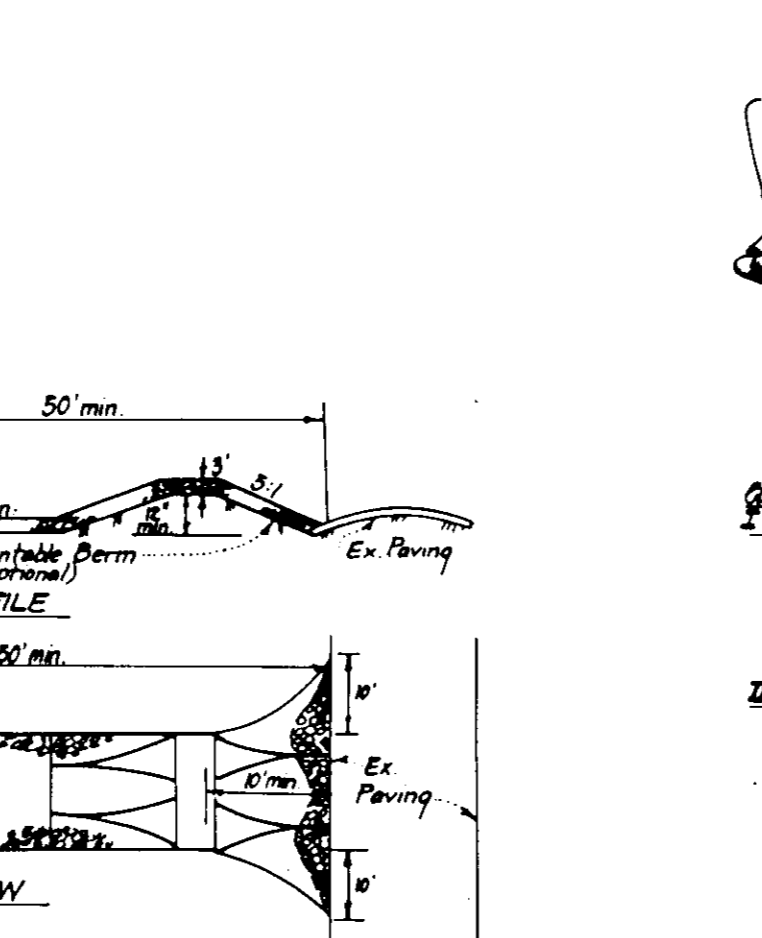
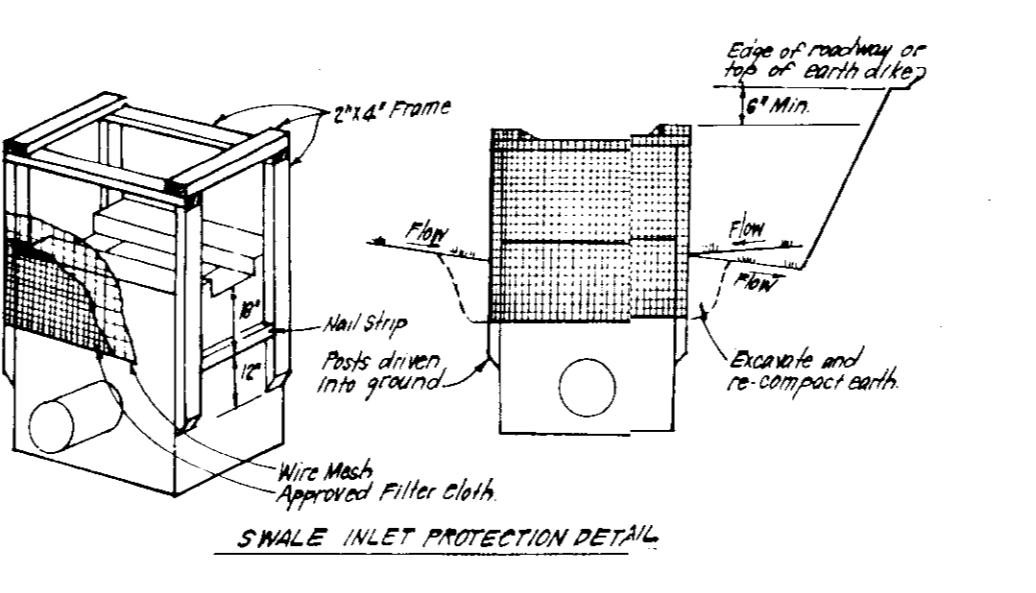
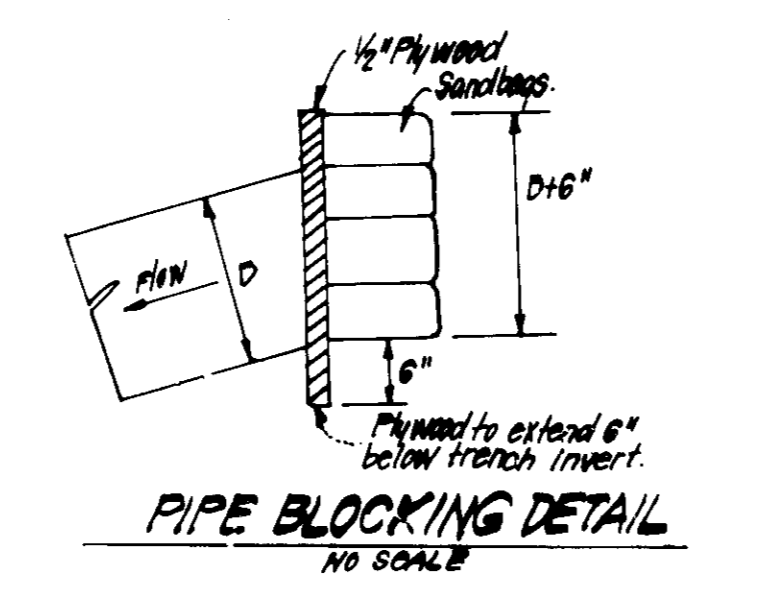
APPROVED:
PLANNING BOARD
HOWARD COUNTY
 7-9-86
 [Signature]

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] DATE 10-29-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 [Signature] DATE 10-30-86

APPROVED: FOR PUBLIC WATER AND SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE 10-30-86

APPROVED: FOR PUBLIC WATER AND SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE 10-30-86



Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

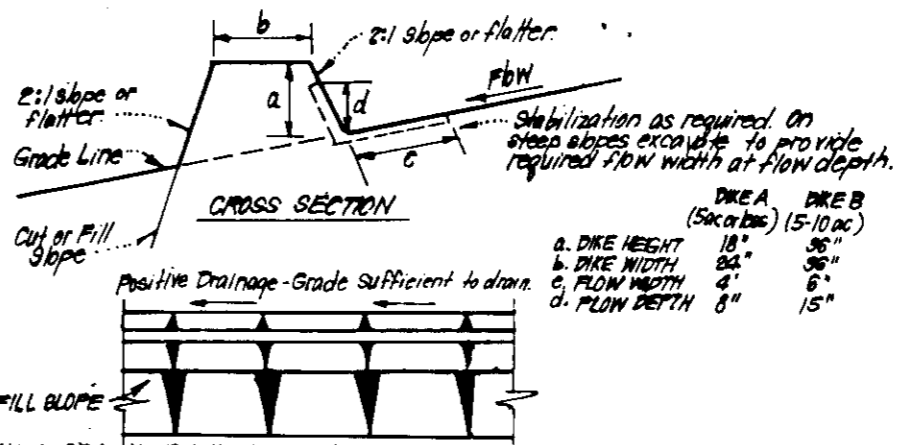
Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 1 thru November 15, seed with 24 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



CONSTRUCTION SPECIFICATIONS:

- All dikes shall be constructed by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top widths may be wider and side slopes may be flatter if desired to facilitate cleaning by construction vehicles.
- Final location should be adjusted as needed to utilize a stabilized safe outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be discharged to a sediment trapping device such as a sediment trap or sediment basin within either the dike channel or the drainage area above the dike and not directly to the outlet.
- Straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL WIDTH	DIKE A	DIKE B
1	15'-30'	Seed or Straw Mulch	Seed or Straw Mulch
2	3'-15'	Seed or Straw Mulch	Seed or Straw Mulch
3	3'-15'	Seed or Straw Mulch	Seed or Straw Mulch

CONSTRUCTION SPECIFICATIONS:

- Straw to be 2" thick, as recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.
- Rip-rap to be 4"-8" in a layer of 2" of straw pressed into soil.
- Approved equivalents can be substituted for any of the above materials.
- Periodic inspection and required maintenance must be provided after each rain.

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2477)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector
- Site Analysis:

Total Area of Site	10.1 Acres
Area Disturbed	10.1 Acres
Area to be roofed or paved	4.7 Acres
Area to be vegetatively stabilized	5.4 Acres
Total Cut	33,760 Cu. yds
Total Fill	31,860 Cu. yds
Offsite waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on an "As-Built" basis, at a minimum, Single Lot Sediment Control as shown below shall be implemented. N/A
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 960 L.F.

CONSTRUCTION SEQUENCE (PHASE I)

No.	Description	No. of Days
1.	Obtain Grading Permit	2
2.	Install Sediment & Erosion Control Measures	14
3.	Clear & Rough Grade Site	30
4.	Construct storm drainage and Temp 21" CMP at M/A and brick shut 21" RCP out of M/A.	
5.	Construct Utilities	60
6.	Final Grade & Construct Paving and Buildings except Building No. 5	240
7.	Final Grade & Stabilize in accordance w/ Stds & Specs.	14
8.	Upon approval of Sediment Control Inspector, remove sediment & erosion control and stabilize.	14

CONSTRUCTION SEQUENCE (PHASE II)

No.	Description	No. of Days
1.	Install SBD/S around Building #5	14
2.	Excavate foundation grade and construct Bldg. #5	60
3.	Stabilize disturbed areas around Bldg. #5 in accordance w/ Stds and Specs.	14
4.	Upon approval of Sediment Control Inspector, remove sediment & erosion control & stabilize.	14

Note: Prior to removing sediment & erosion control flush storm drain system.

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

SEDIMENT & EROSION CONTROL PLAN
 DETAIL 6-1
COLUMBIA
 VILLAGE OF DORSEY'S SEARCH AREA I
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DESIGNED: MCB, WHT
 DRAWN: KIW
 CHECKED: WHT
 DATE: 6-6-86

SCALE: 1"=30'
 DRAWING: 6 OF 7
 JOB NO: 85-117
 FILE NO: 85-117-5E

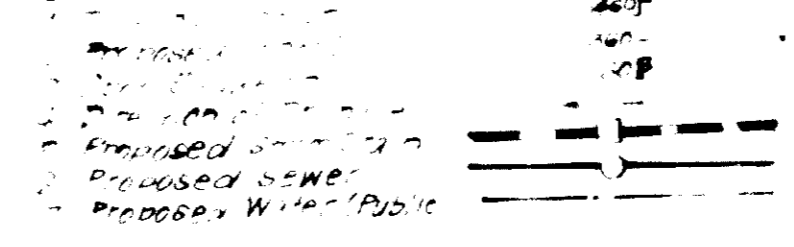
FOR: CARL TERWILLIGER & MICHAUX, INC.
 550 Sterrett Place #201
 Columbia, Md. 21044

OWNER: The Howard Research & Develop. Corp.
 10215 Little Potomac Parkway
 Columbia Md. 21044

Reviewed for Howard S.C.D. and meets Technical Requirements
 [Signature] S.C.D.
 DEVELOPER'S/BUILDERS' CERTIFICATE
 I hereby 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 as may be deemed necessary.
 [Signature] DATE 7-30-86

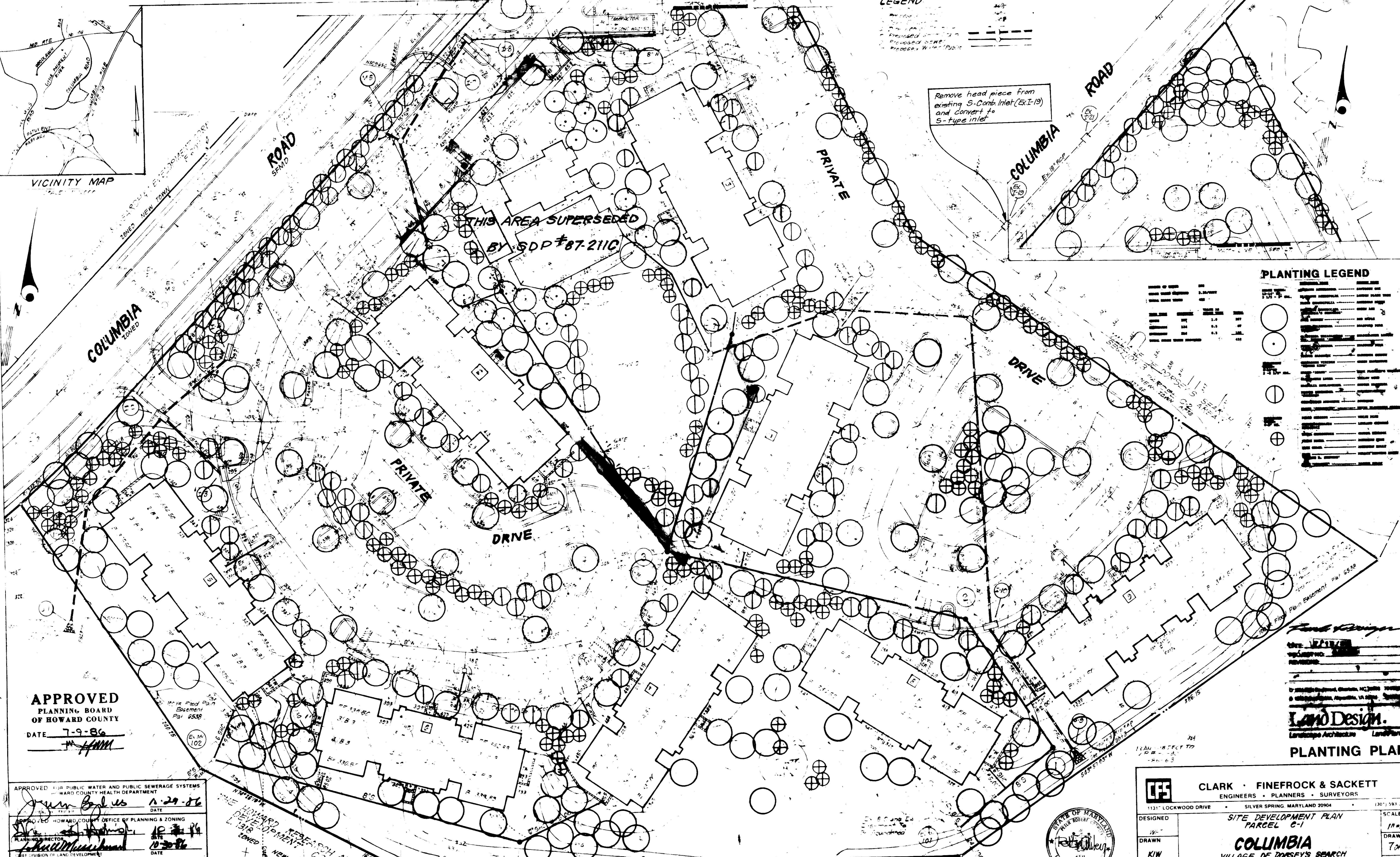
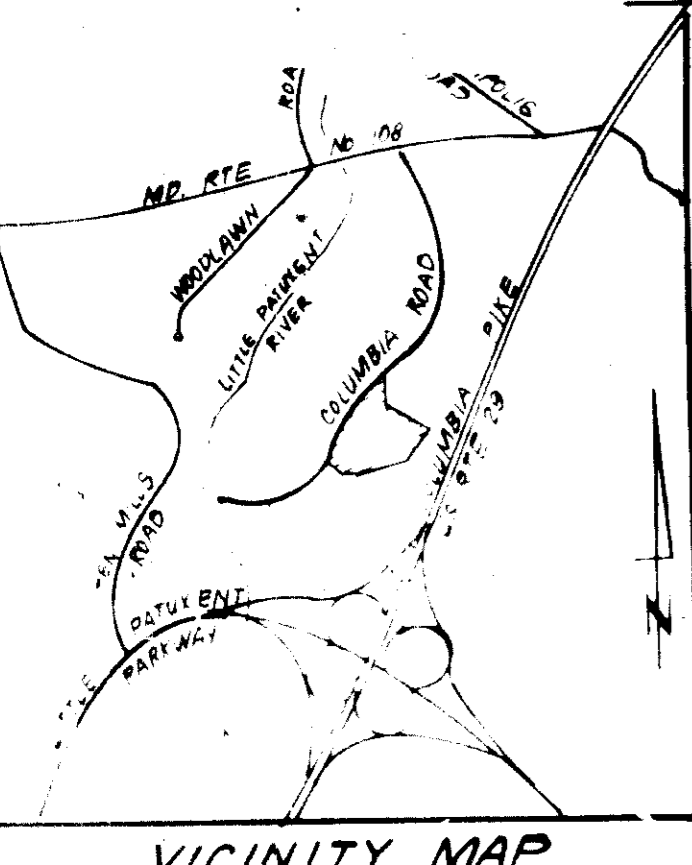
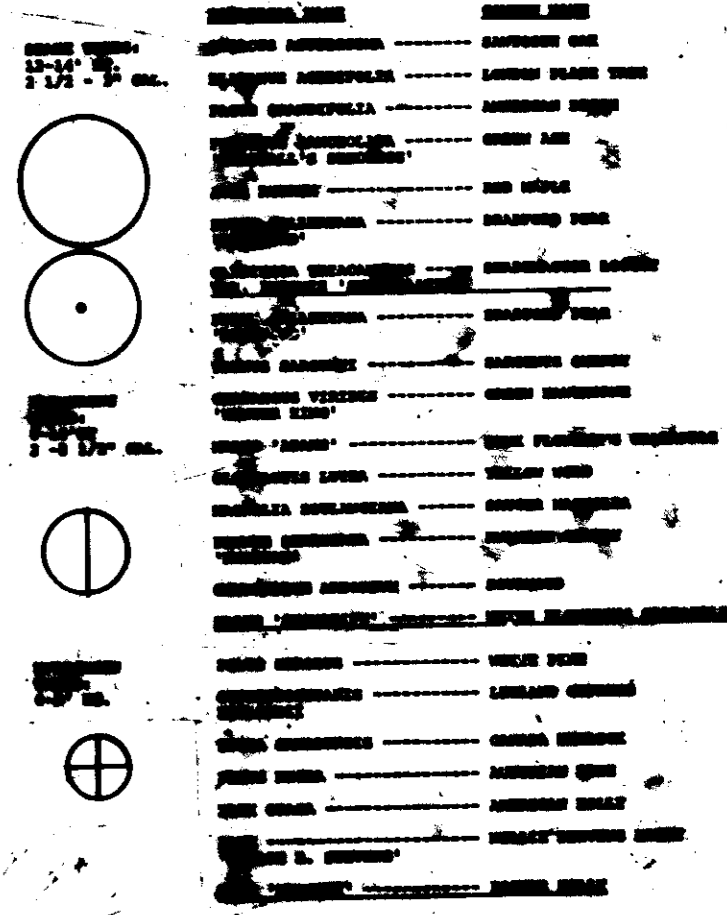
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 [Signature] DATE 6-28-86

LEGEND



Remove head piece from existing S-Comb Inlet (EX-19) and convert to S-type inlet

PLANTING LEGEND



THIS AREA SUPERSEDED BY SDP #87-2110

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: 7-9-86

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

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR

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

DIRECTOR

CHIEF ENGINEER

HOWARD REBERSON AND ASSOCIATES
LANDSCAPE ARCHITECTS
1518
NEW TOWN, MD 20717

SITE ANALYSIS:

- 1. General Land Use: Residential, Single-Family
- 2. Area of Study: 1.08 Acres
- 3. % of Residential Units Permitted: 50 (Maximum 50)
- 4. Parking Spaces Required: 288 (Provided 333)
- 5. Building Coverage: 1.71 Acres

NO.	REVISIONS	DATE
1	Revised Pool & Recreation Area & Inlet I-17	6-7-86



CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11311 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED: [Signature]
DRAWN: [Signature]
K/I/W: [Signature]
CHECKED: [Signature]
DATE: 6-2-86

SITE DEVELOPMENT PLAN
PARCEL C-1
COLUMBIA
VILLAGE OF DORSEY'S SEARCH
SECTION 3
5TH ELECTION DISTRICT 7
HOWARD COUNTY, MARYLAND

SCALE: 1/4" = 30'
DRAWING: 7 of 7
JOB NO: 85-117
FILE NO: 85-117-1

SDP-86-264

Land Design
Landscape Architecture

PLANTING PLAN