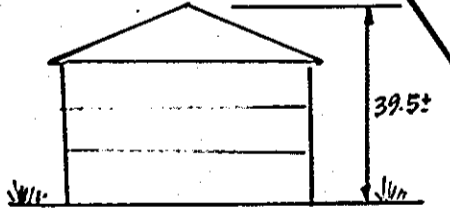


**LEGEND:**  
 Contour Interval 2 Ft  
 Existing Contour (dashed line)  
 Proposed Contour (solid line)  
 Spot Elevation (number)  
 Direction of Drainage (arrow)  
 Prop. Storm Drain (line with 'S')  
 Prop. Sewer (line with 'W')  
 Exist. Trees to be saved (circle with 'T')  
 Handicapped Buildings (square with 'H')

LOT 4  
 V.O.H.R. 1/6  
 PLAT 42-2

OPEN SPACE  
 V.O.H.R. 5/1  
 PLAT 42-2



**UNIT ANALYSIS**

BLDG. No.	ONE BEDROOM	TWO BEDROOM	THREE BEDROOM	TOTAL
1	12	12		24
2	12	11	1	24
3	12	11	1	24
4	12	11	1	24
5	12	11	1	24
6	6	6		12
<b>TOTALS</b>	<b>66</b>	<b>63</b>	<b>3</b>	<b>132</b>

**STREET ADDRESS**

BLDG. No.	STREET ADDRESS
1	10401 & 10405 Hickory Ridge Road
2	10411 & 10415 " "
3	10421 & 10425 " "
4	10431 & 10435 " "
5	10441 & 10445 " "
6	10451 " "

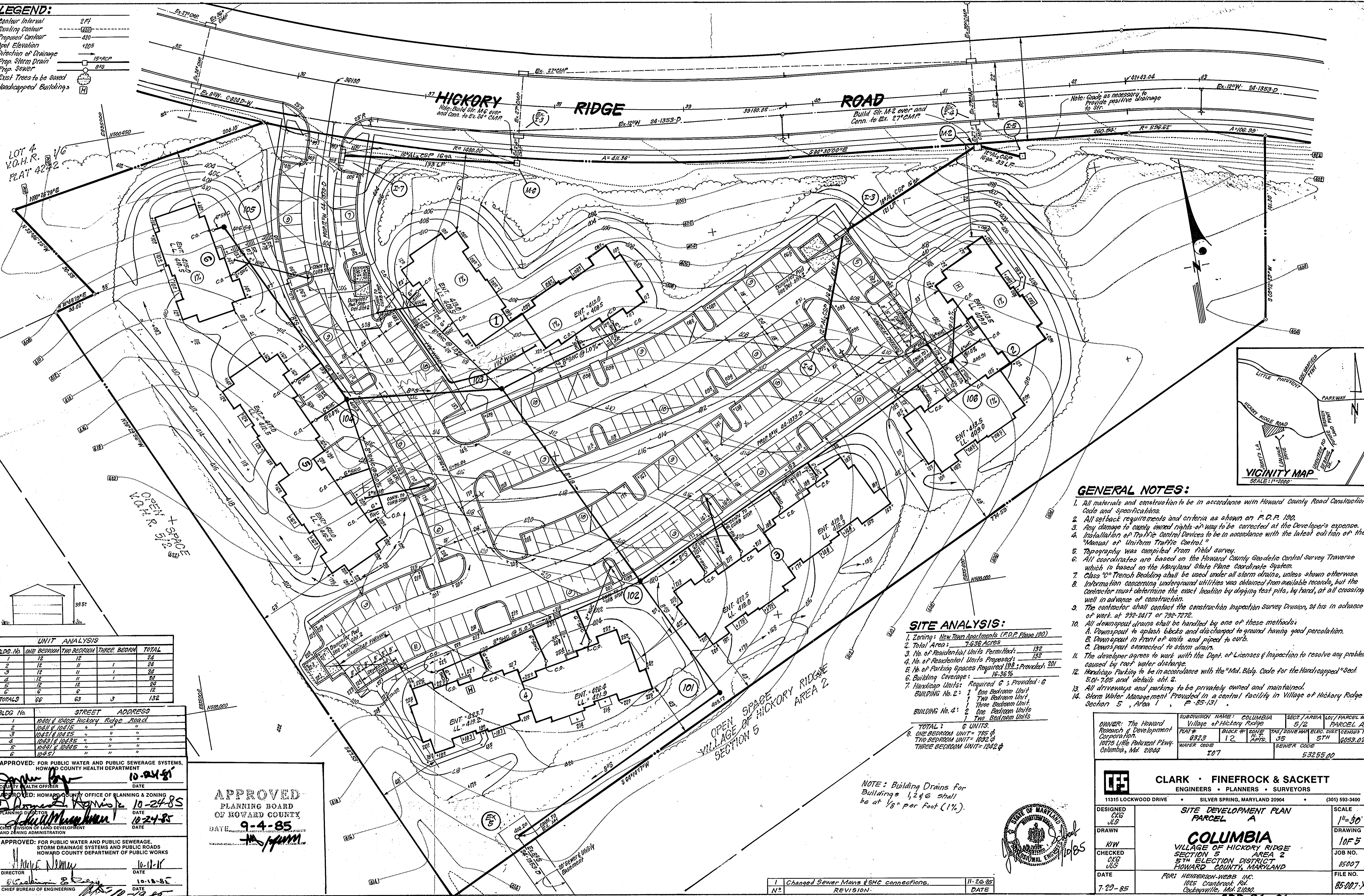
**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
 COUNTY HEALTH OFFICER: [Signature] DATE: 10-24-85

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING**  
 PLANNING DIRECTOR: [Signature] DATE: 10-24-85

**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
 DIRECTOR: [Signature] DATE: 10-11-85

**CHIEF BUREAU OF ENGINEERING**  
 DATE: 10-18-85

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9-4-85



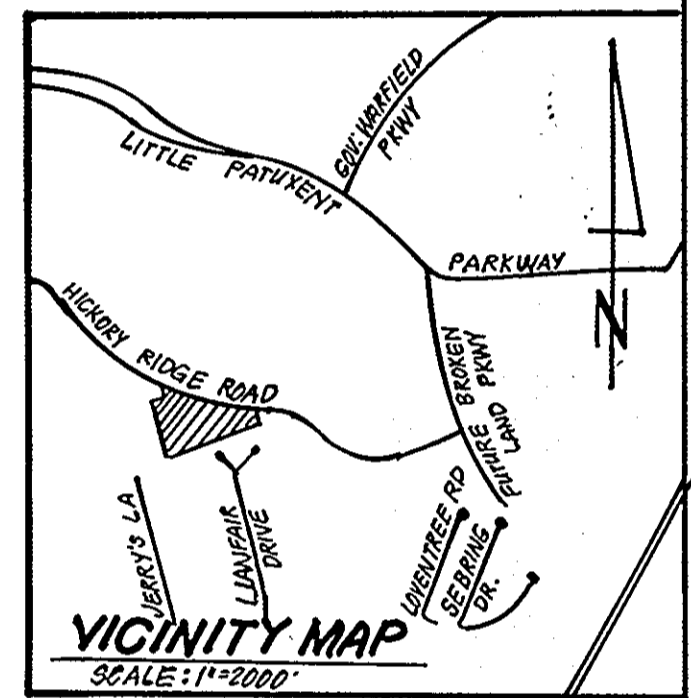
**GENERAL NOTES:**

- All materials and construction to be in accordance with Howard County Road Construction Code and Specifications.
- All setback requirements and criteria as shown on F.D.P. 190.
- Any damage to county owned rights of way to be corrected at the Developer's expense.
- Installation of Traffic Control Devices to be in accordance with the latest edition of the "Manual of Uniform Traffic Control."
- Topography was compiled from field survey.
- All coordinates are based on the Howard County Geodetic Control Survey Traverse which is based on the Maryland State Plane Coordinate System.
- Class "B" Trench Bedding shall be used under all storm drains, unless shown otherwise.
- 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 crossings well in advance of construction.
- The contractor shall contact the construction inspection Survey Division, 24 hrs in advance of work at 992-2417 or 792-7272.
- All downspout drains shall be handled by one of these methods:  
 A. Downspout to splash blocks and discharged to ground having good percolation.  
 B. Downspout in front of units and piped to curb.  
 C. 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 to be in accordance with the "Md. Bldg. Code for the Handicapped" Sect. 5.01-7.05 and details sht. 2.
- All driveways and parking to be privately owned and maintained.
- Storm Water Management Provided in a central facility in Village of Hickory Ridge Section 5, Area 1, F-85-131.

**SITE ANALYSIS:**

- Zoning: New Town Apartments (F.D.P. Phase 190)
- Total Area: 7.636 Acres
- No. of Residential Units Permitted: 132
- No. of Residential Units Proposed: 132
- No. of Parking Spaces Required 192; Provided: 201
- Building Coverage: 16.36%
- Handicap Units: Required 6; Provided: 6  
 BUILDING No. 2: 1 One Bedroom Unit  
 Two Bedroom Unit  
 Three Bedroom Unit  
 BUILDING No. 4: 2 One Bedroom Units  
 Two Bedroom Units
- TOTAL: 6 UNITS.  
 ONE BEDROOM UNIT = 785 sq ft  
 TWO BEDROOM UNIT = 1092 sq ft  
 THREE BEDROOM UNIT = 1242 sq ft

NOTE: Building Drains for Buildings 1, 2 & 6 shall be at 1/8" per Foot (1%).



OWNER: The Howard Research & Development Corporation 10275 Little Patuxent Pkwy, Columbia, Md. 21044	SUBDIVISION NAME: COLUMBIA Village of Hickory Ridge PLAT # 0923 BLOCK # 12 APTS. 35 WATER CODE 107	SECT./AREA 5/2 PARCEL # PARCEL A ELEC. DIST. CENSUS TR. 8053.02 SEWER CODE 53255.00
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 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

**SITE DEVELOPMENT PLAN**  
 PARCEL A

**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE  
 SECTION 5  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: HENDERSON-WEBB INC.  
 1025 Cranbrook Rd.  
 Odessa, Md. 21852

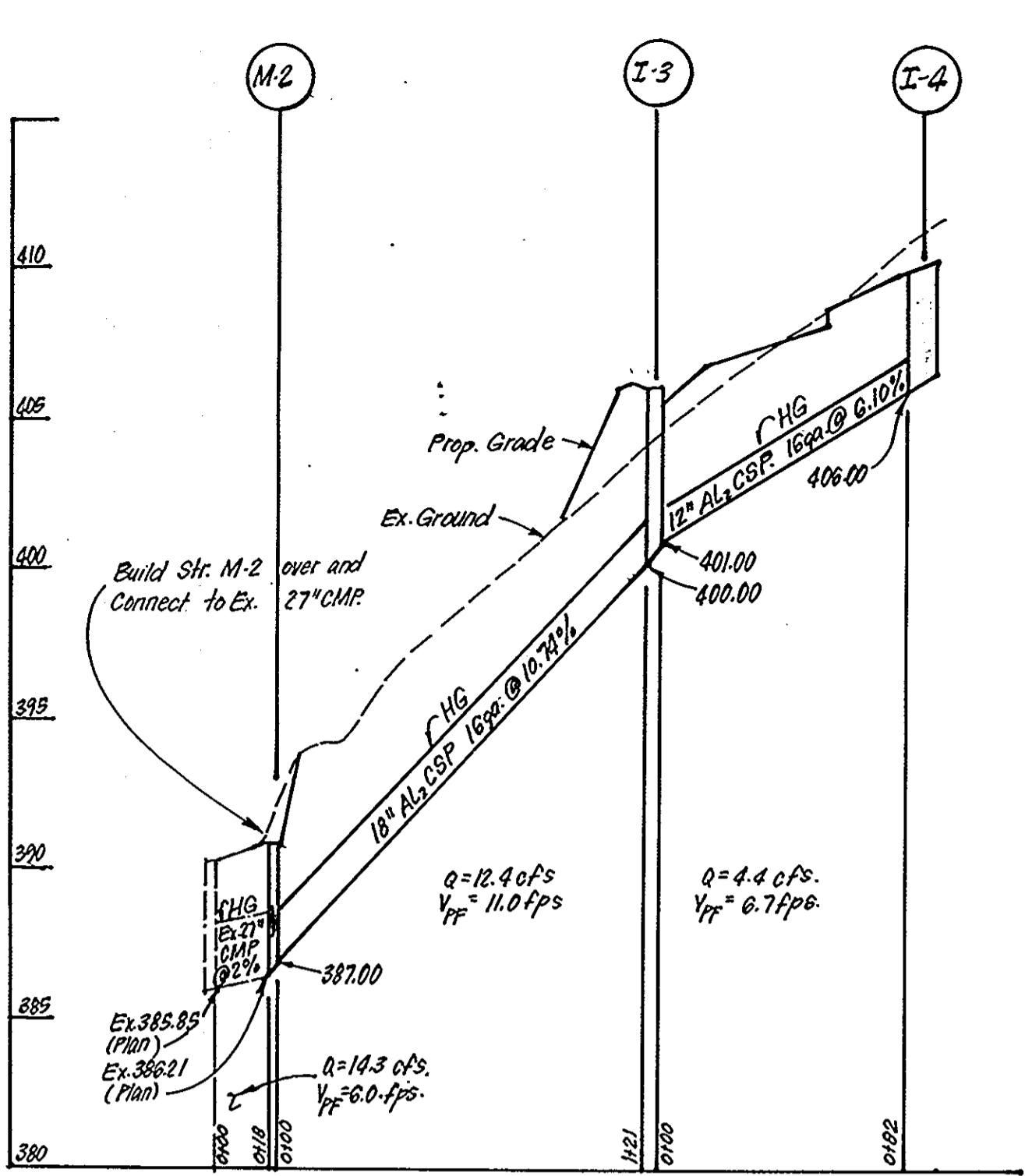
DESIGNED: CJK, JLS  
 DRAWN: R/W  
 CHECKED: CJK, JLS  
 DATE: 7-29-85

SCALE: 1"=30'  
 DRAWING: 10F5  
 JOB NO.: 85007  
 FILE NO.: 85007-X

REVISION: 1 Changed Sewer Mains & SHC connections. DATE: 11-26-85





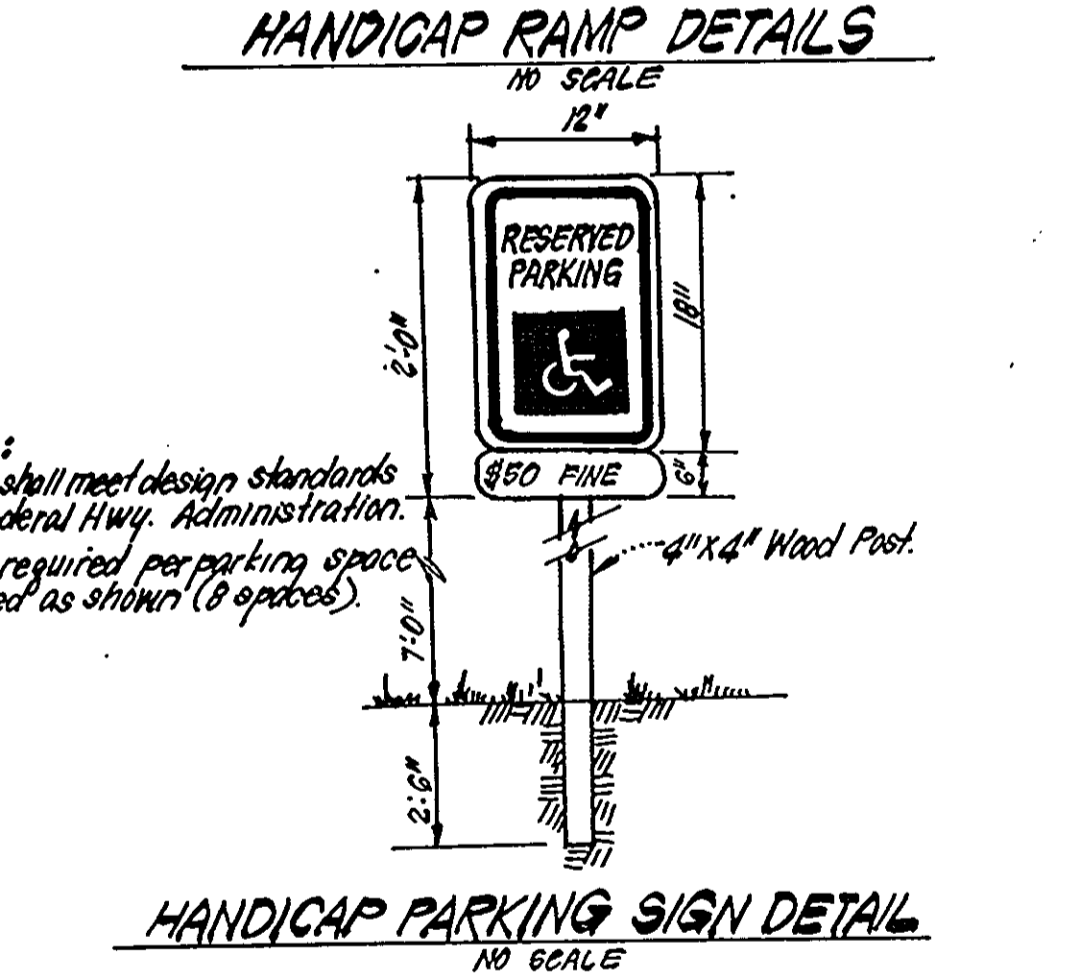
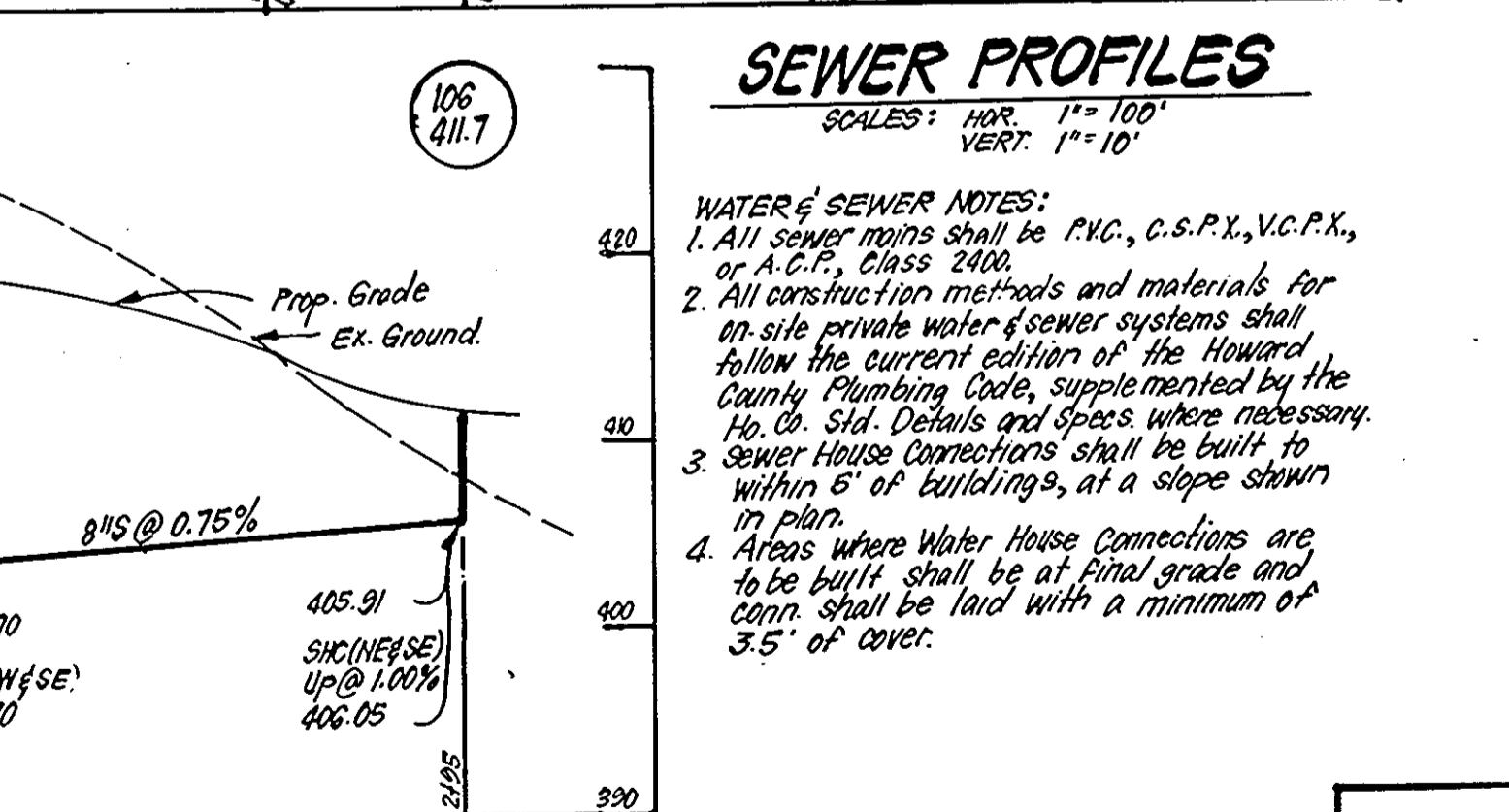
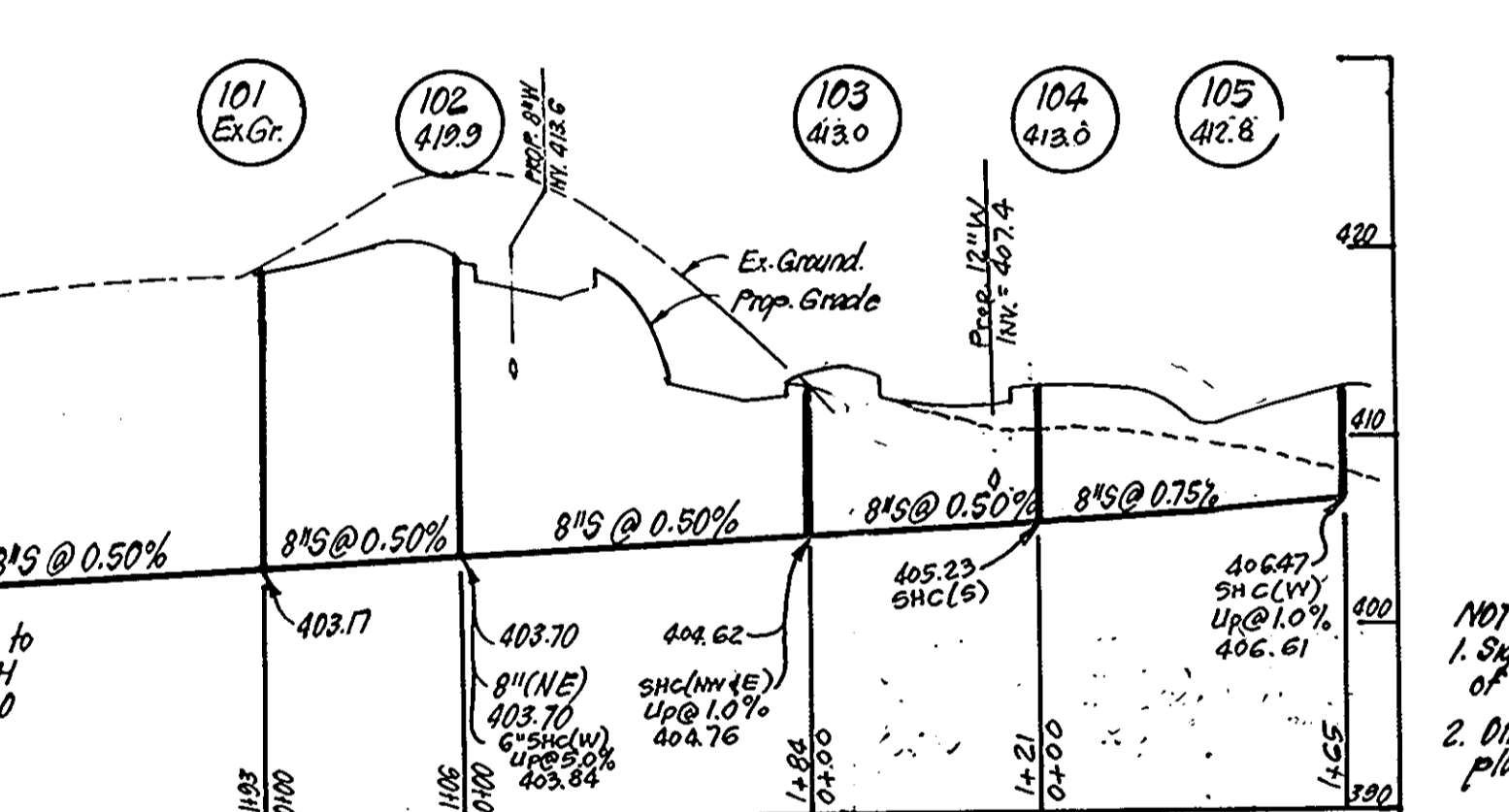
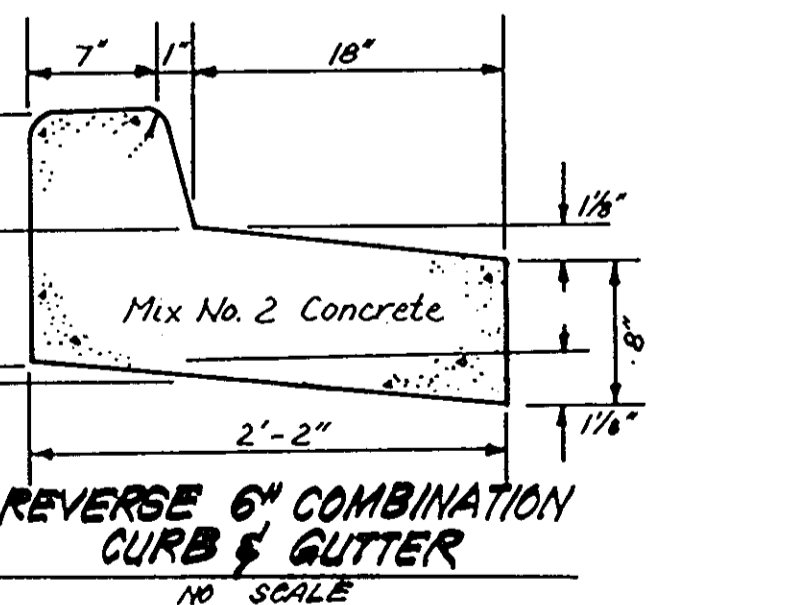
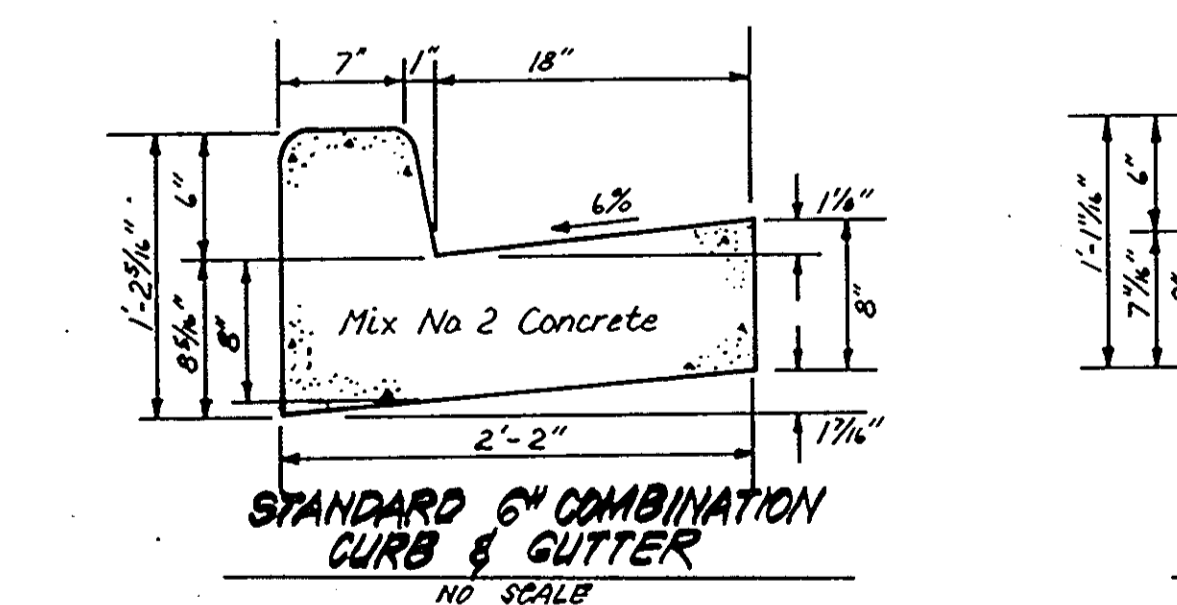
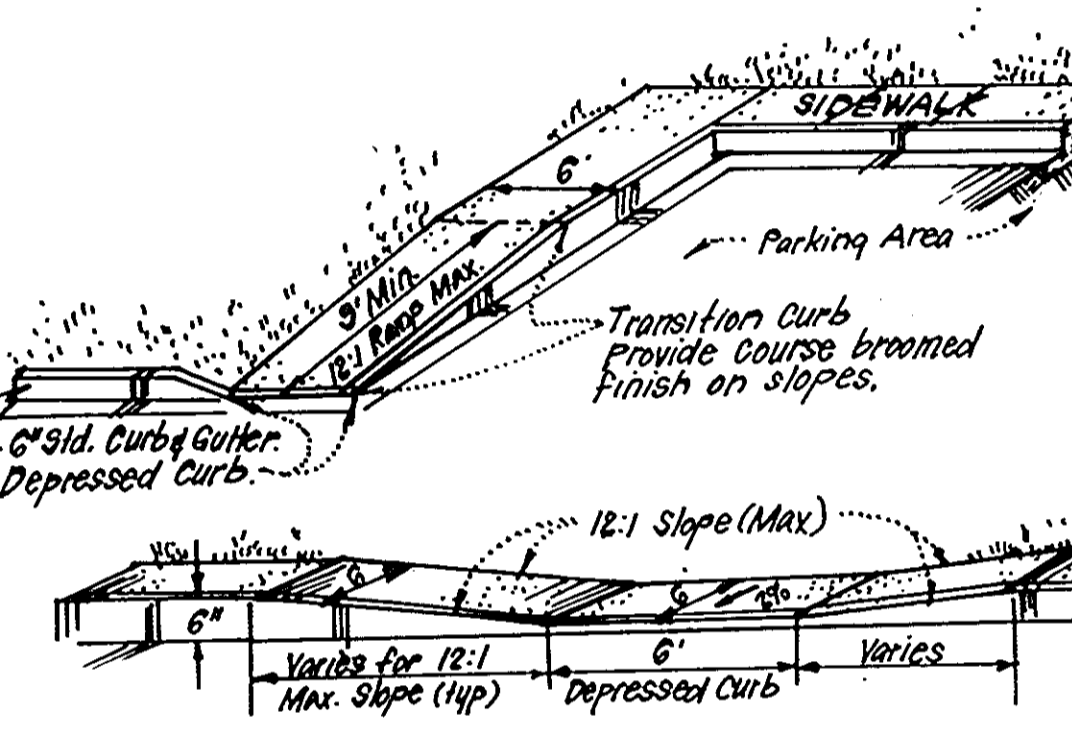
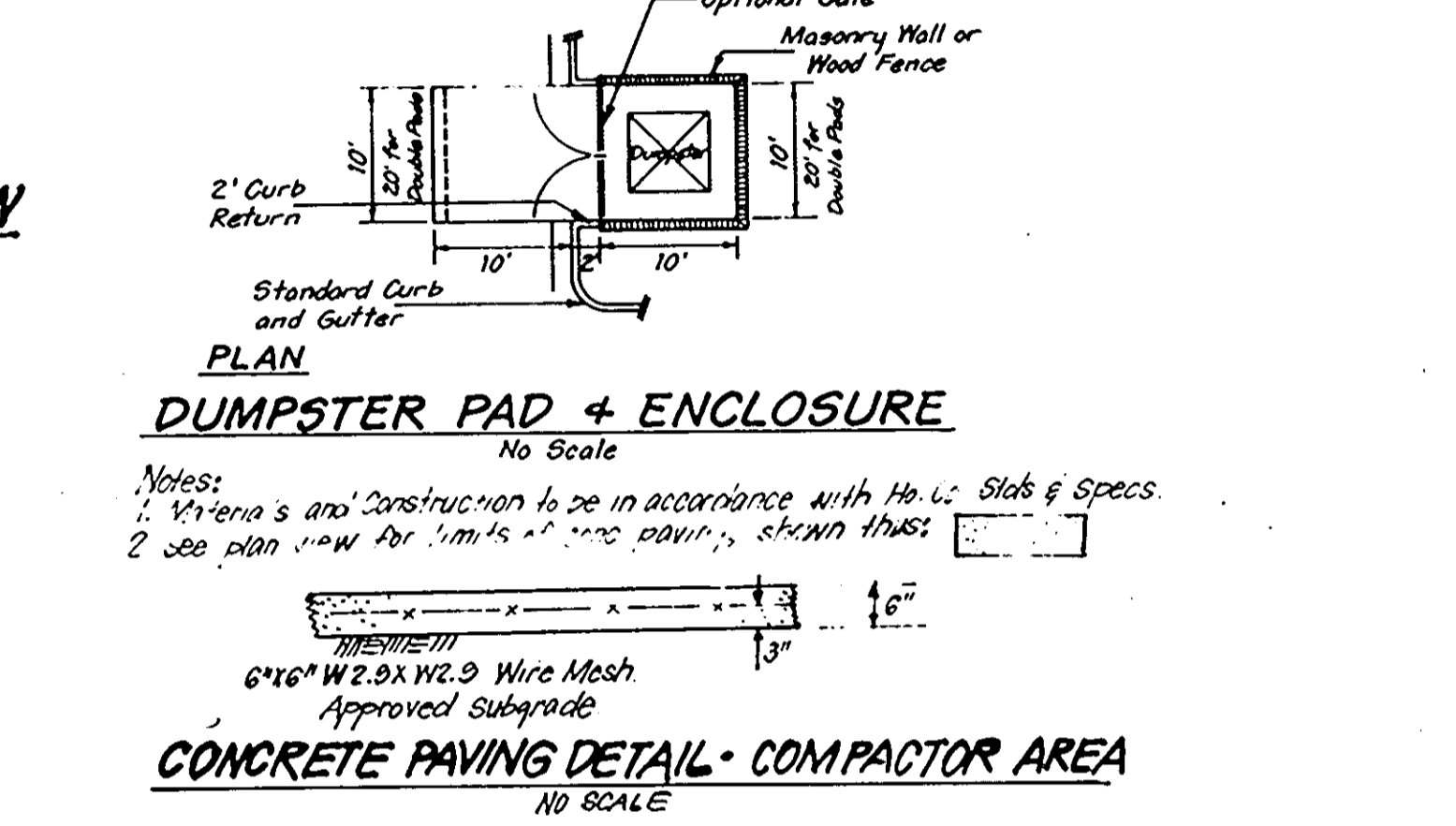
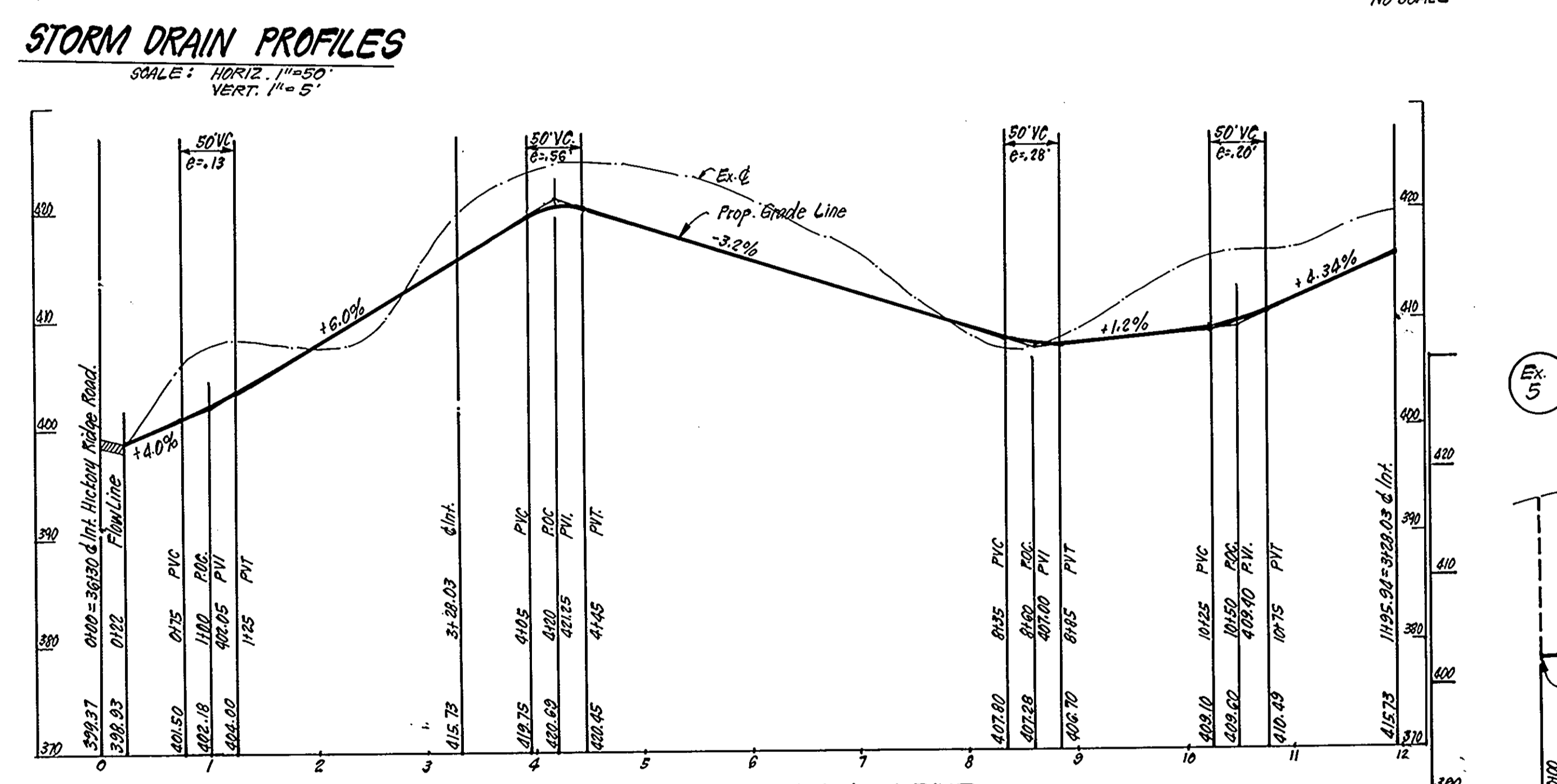
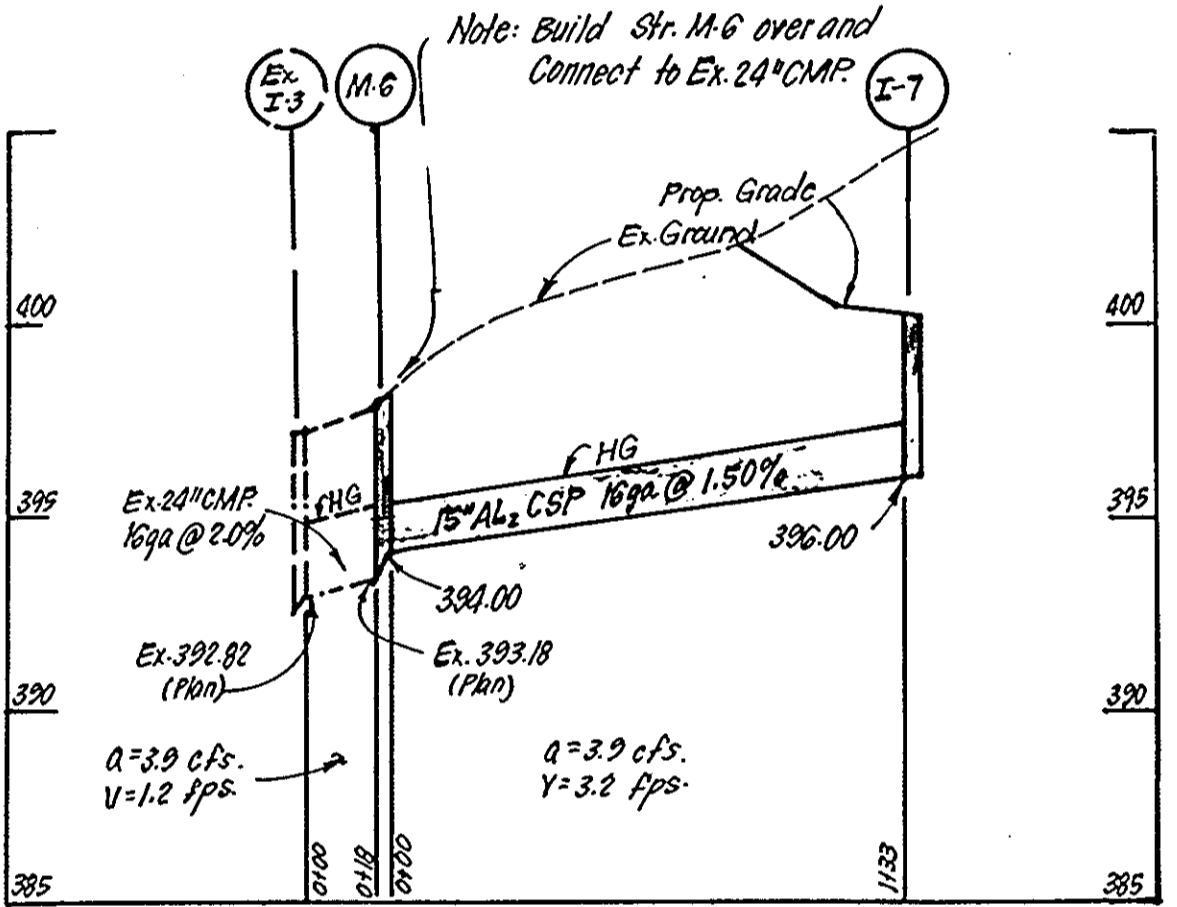
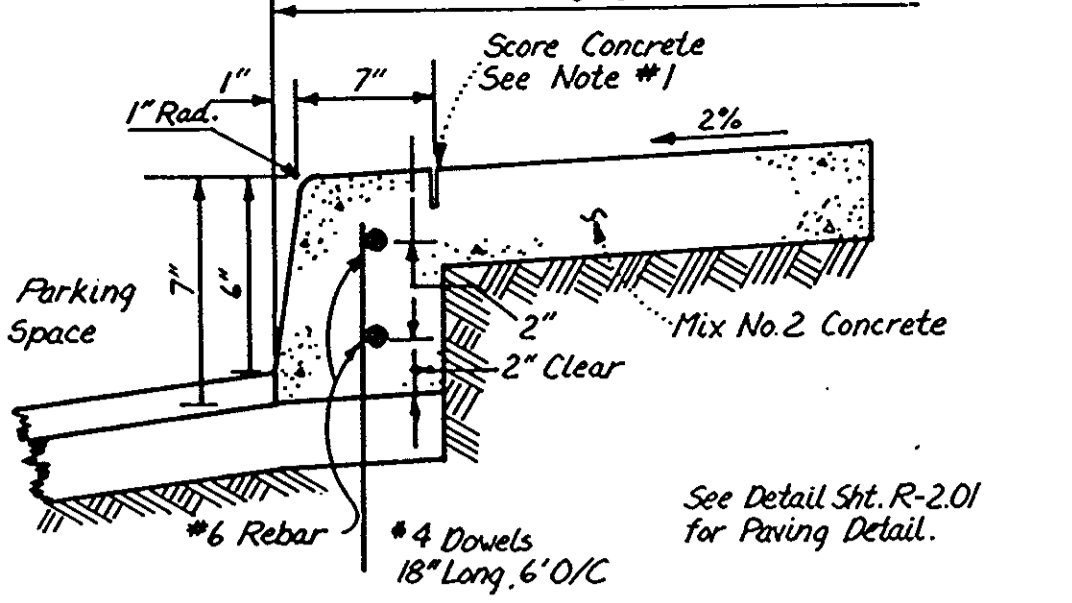
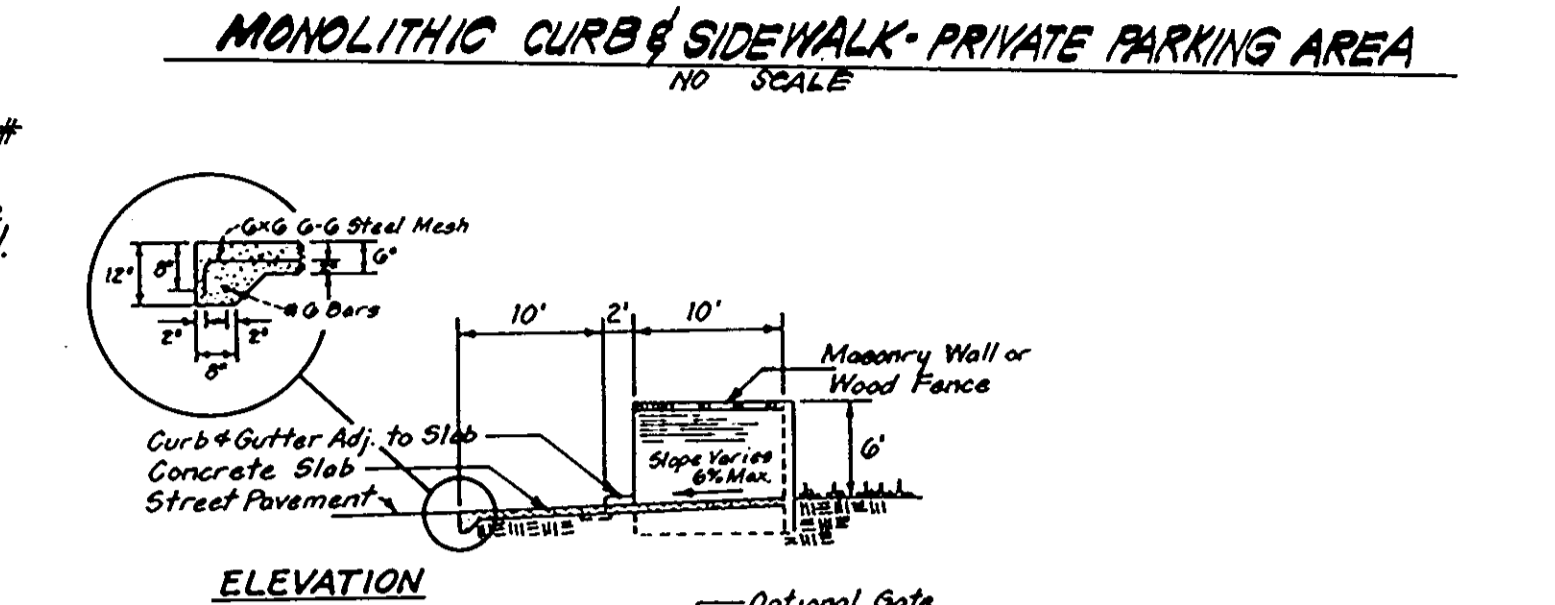
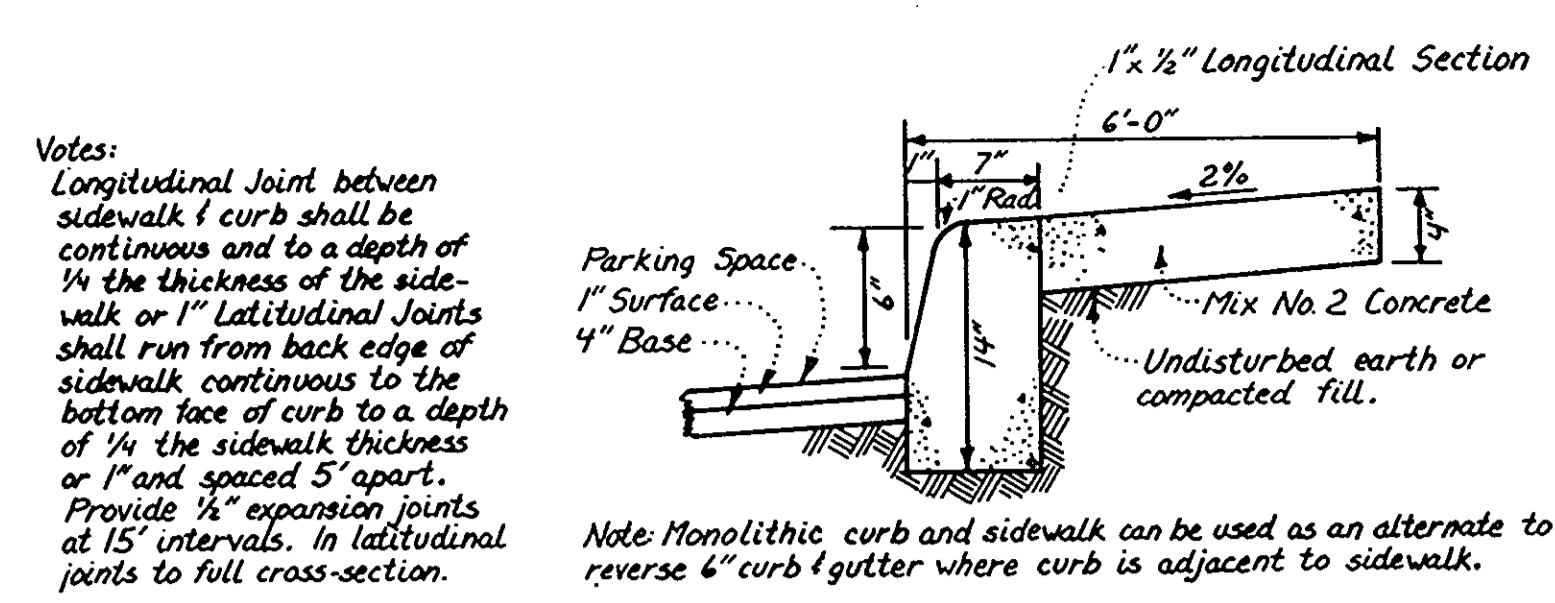
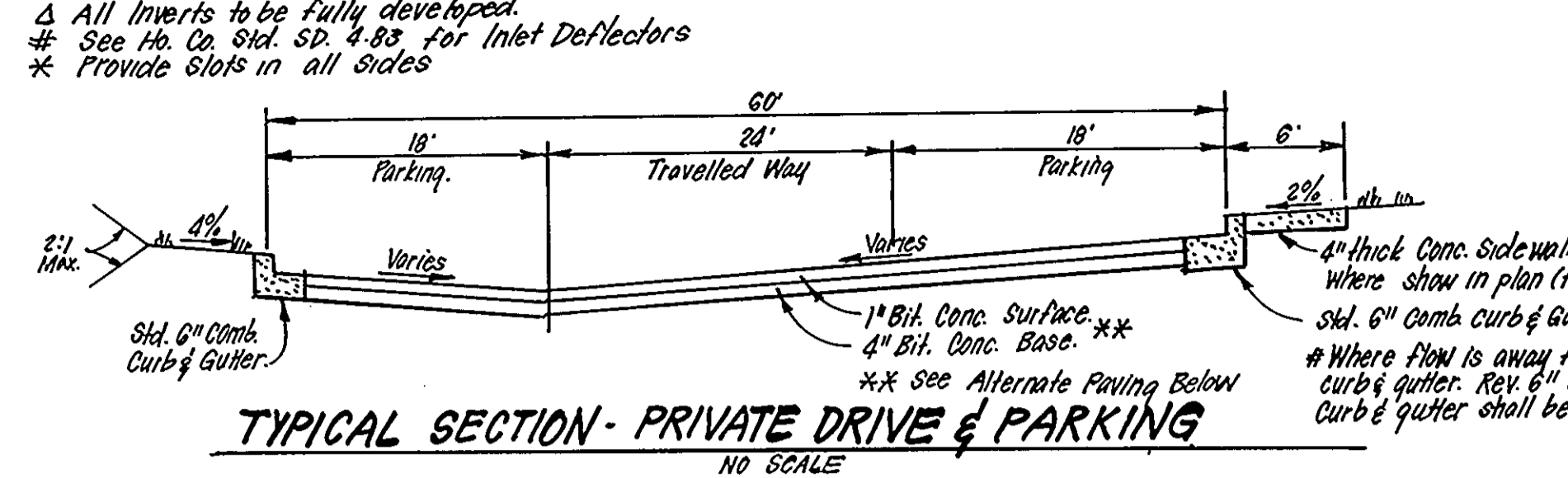


PIPE SCHEDULE		
SIZE	TYPE	LENGTH
12"	AL CSP	109A
15"	AL CSP	103 LF
18"	AL CSP	109A
18"	AL CSP	121 LF

\* 2 1/4" x 1/8" Corrugations

STRUCTURE SCHEDULE						
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS
				UPPER	LOWER	
M-2	Shallow Brick Manhole	387.00	386.21	390.70	390.70	Ho. Co. Std. 4'-5.05' W=2'-2.00'
I-3	A-10 Inlet	401.00	400.00	406.00	406.00	" " " SD 4.02' W=2'-2.00'
I-4	A-10 Inlet	-	406.00	410.30	410.00	" " " SD 4.11' W=2'-2.00'
I-5	D. Inlet	-	388.00	391.83	391.83	" " " SD 4.11' W=2'-2.00'
M-6	Shallow Brick Manhole	394.00	393.18	399.00	399.00	" " " SD 4.02' W=2'-2.00'
I-7	A-10 Inlet w/Deflectors	-	396.00	400.34	399.80	" " " SD 4.02' W=2'-2.00'

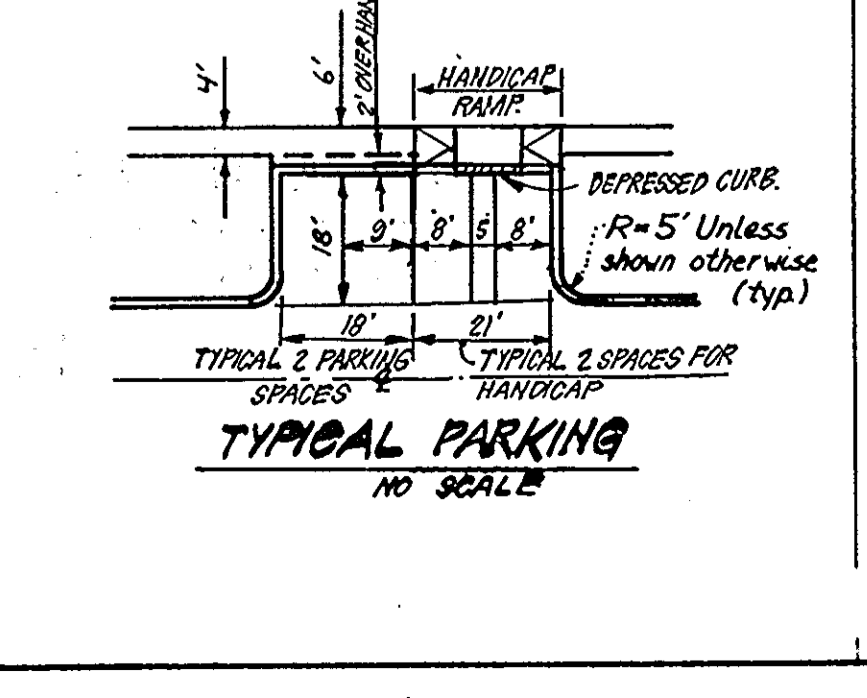
Δ All Inverts to be fully developed.  
 # See Ho. Co. Std. SP. 4.85 for Inlet Deflectors  
 \* Provide Slobs in all States



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 10-24-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DATE: 10-24-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 10-11-85



APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9-4-85

1 Revised Profile from MH 103 to 105 11-26-85  
 2 REVISION DATE

WATER & SEWER NOTES:  
 1. All sewer mains shall be PVC, C.S.P., V.C.P.K., or A.C.P., Class 2400.  
 2. All construction methods and materials for on-site private water & sewer systems shall follow the current edition of the Howard County Plumbing Code, supplemented by the Ho. Co. Std. Details and Specs. where necessary.  
 3. Sewer House Connections shall be built to within 6' of buildings, at a slope shown in plan.  
 4. Areas where Water House Connections are to be built shall be at final grade and conn. shall be laid with a minimum of 3.5' of cover.

OWNER: The Howard Research & Development Corporation, 10275 Little Patuxent Pkwy, Columbia, Md. 21044

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

DESIGNED: CKG, JLS  
 DRAWN: JLS  
 CHECKED: CKG, JLS  
 DATE: 7-29-85

SITE DEVELOPMENT PLAN  
 PARCEL A  
**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE  
 SECTION 5 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: HENDERSON-WEBS, INC.  
 1025 Cranbrook Road  
 Croftersville, Md. 21030

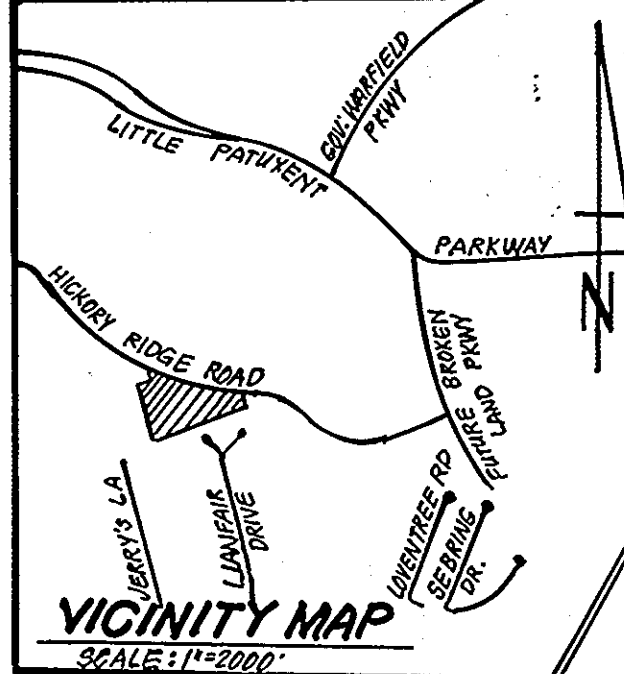
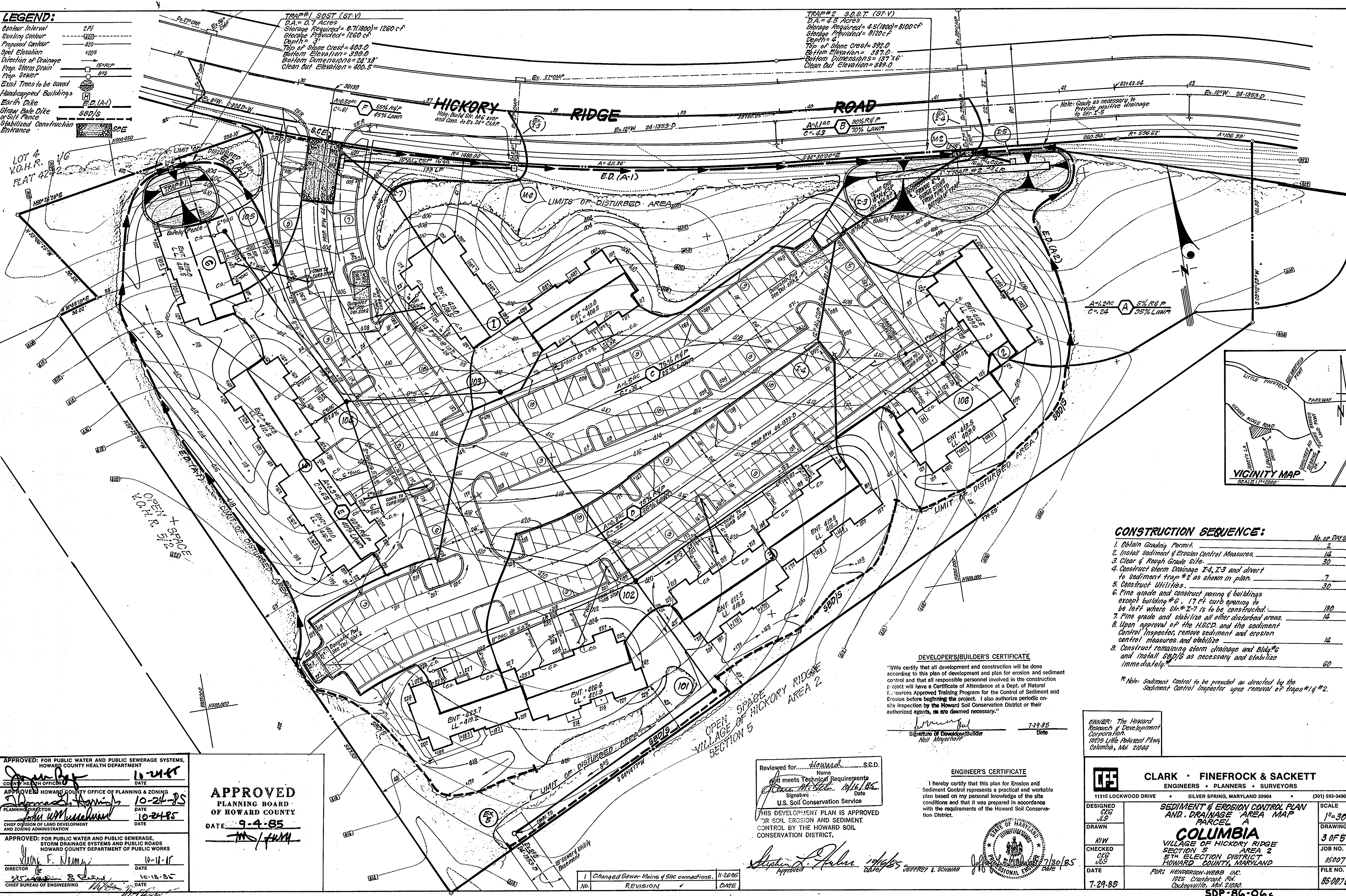
SCALE: As Shown  
 DRAWING: 2 OF 5  
 JOB NO.: 85-007  
 FILE NO.: 85-007-X



**LEGEND:**  
 Contour Interval 2 FT  
 Existing Contour 420  
 Proposed Contour 420  
 Spot Elevation +205  
 Direction of Drainage  
 Prop. Storm Drain 15" RCP  
 Prop. Sewer 8" S  
 Exist. Trees to be Saved  
 Handicapped Buildings  
 Earth Dike E.D. (A-1)  
 Straw Bale Dike or Silt Fence SBD/S  
 Stabilized Construction Entrance SCE

**TRAP #1 S.O.S.T. (ST-V)**  
 D.A. = 0.7 Acres  
 Storage Required = 0.7(1800) = 1260 c.f.  
 Storage Provided = 1260 c.f.  
 Depth = 4'  
 Top of Stone Crest = 403.0  
 Bottom Elevation = 399.0  
 Bottom Dimensions = 24' x 8'  
 Clean Out Elevation = 400.5

**TRAP #2 S.O.S.T. (ST-V)**  
 D.A. = 4.5 Acres  
 Storage Required = 4.5(1800) = 8100 c.f.  
 Storage Provided = 8100 c.f.  
 Depth = 4'  
 Top of Stone Crest = 392.0  
 Bottom Elevation = 387.0  
 Bottom Dimensions = 137' x 6'  
 Clean Out Elevation = 389.0



**CONSTRUCTION SEQUENCE:**

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 I-4, I-3 and divert to sediment trap #2 as shown in plan.	7
5.	Construct Utilities.	30
6.	Fine grade and construct paving & buildings except building #6. 17' curb opening to be left where Str. # I-7 is to be constructed.	180
7.	Fine grade and stabilize all other disturbed areas.	14
8.	Upon approval of the H.S.C.D. and the sediment Control Inspector, remove sediment and erosion control measures and stabilize.	14
9.	Construct remaining storm drainage and Bldg. #6 and install SBD/S as necessary and stabilize immediately.	60

\* Note: Sediment Control to be provided as directed by the Sediment Control Inspector upon removal of traps #1 & #2.

**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: *Neil Meyerhoff*  
 Date: 7-29-85

**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: *Jeffrey L. Schwab*  
 Date: 7/30/85

Reviewed for *Howard* S.C.D. Name  
 and meets Technical Requirements  
 Signature: *John M. Schmitt* Date: 10/16/85  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 Signature: *John W. Muschler* DATE: 10-24-85  
 COUNTY HEALTH OFFICER  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Signature: *John W. Muschler* DATE: 10-24-85  
 PLANNING DIRECTOR  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Signature: *John F. Neuman* DATE: 10-11-85  
 DIRECTOR  
 Signature: *John F. Neuman* DATE: 10-18-85  
 CHIEF BUREAU OF ENGINEERING

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9-4-85  
 Signature: *John F. Neuman*

No.	REVISION	DATE
1	Changed Sewer Mains & SMC connections.	11-26-85

OWNER: The Howard Research & Development Corporation  
 10725 Little Potomac Pkwy  
 Columbia, Md. 21044

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

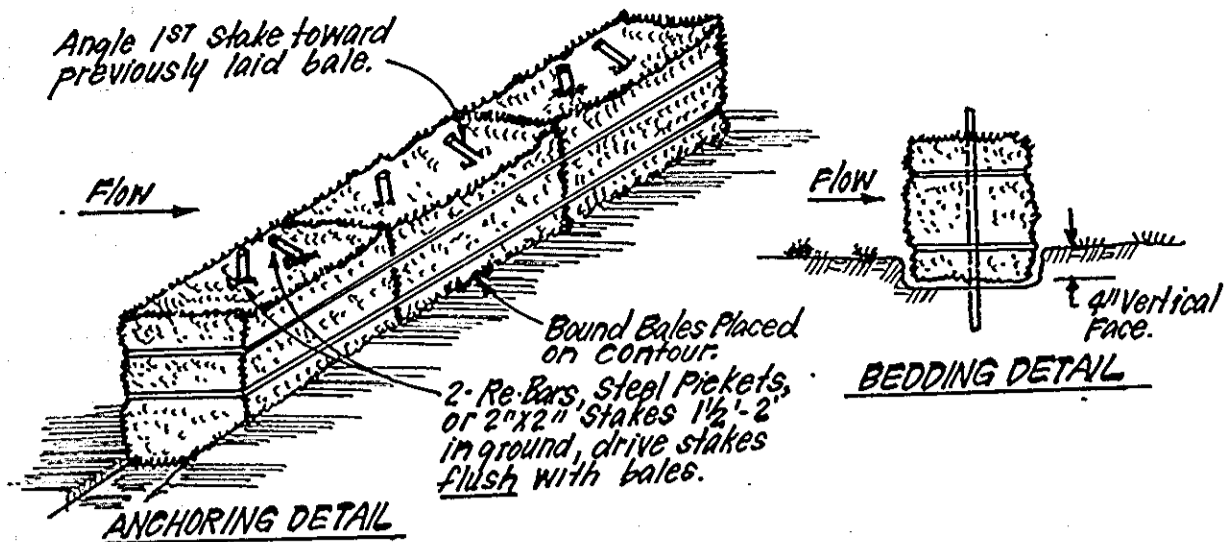
**DESIGNED** CKG JLS  
**DRAWN** R/W  
**CHECKED** CKG JLS  
**DATE** 7-29-85

**SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP**  
**PARCEL A**  
**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE SECTION 5 AREA 2 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 FOR: HEMPSON-WEBB, INC. 1025 Cranbrook Rd. Cockeysville, Md. 21030

SCALE: 1" = 30'  
 DRAWING: 3 OF 5  
 JOB NO.: 85007  
 FILE NO.: 85007.6E

SDP-86-06c

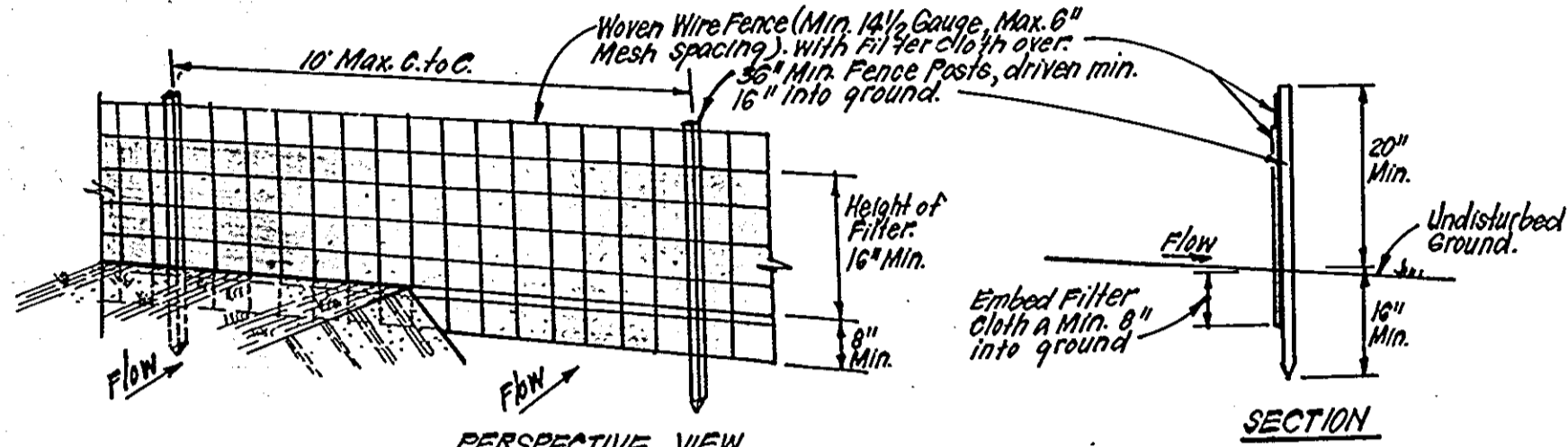




- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
  - Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
  - Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
  - Inspection shall be frequent and repair replacement shall be made promptly as needed.
  - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

**STRAW BALE DIKE DETAIL (SBD)**

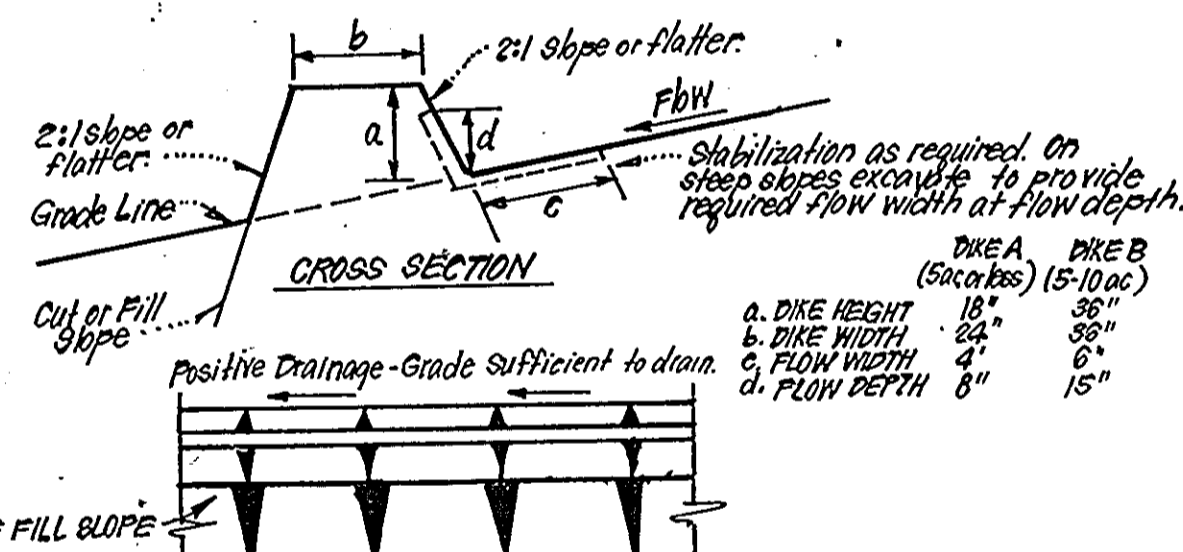
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
  - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
  - When 2 sections of filter cloth adjoin each other they shall be overlapped 12" and stapled.
  - Maintenance shall be performed as needed and material removed when "pulses" develop in silt fence.
- POSTS: Steel, either T or U Type or 2" Hardwood.  
 FENCE: Woven Wire, 14 Gauge, 6" Max. Mesh Opening.  
 FILTER CLOTH: FilterK, Miraf 100X, Stabilink, T140N or Appro. equal.  
 PREFABRICATED UNIT: Geofab, Envirofence, or Appro. equal.

**SILT FENCE DETAIL (S)**

NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- All dikes shall be compacted by earth-moving equipment.
  - All dikes shall have positive drainage to an outlet.
  - Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
  - Field 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 conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
  - Stabilization shall be: (A) In accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) Flow channel as per chart below.

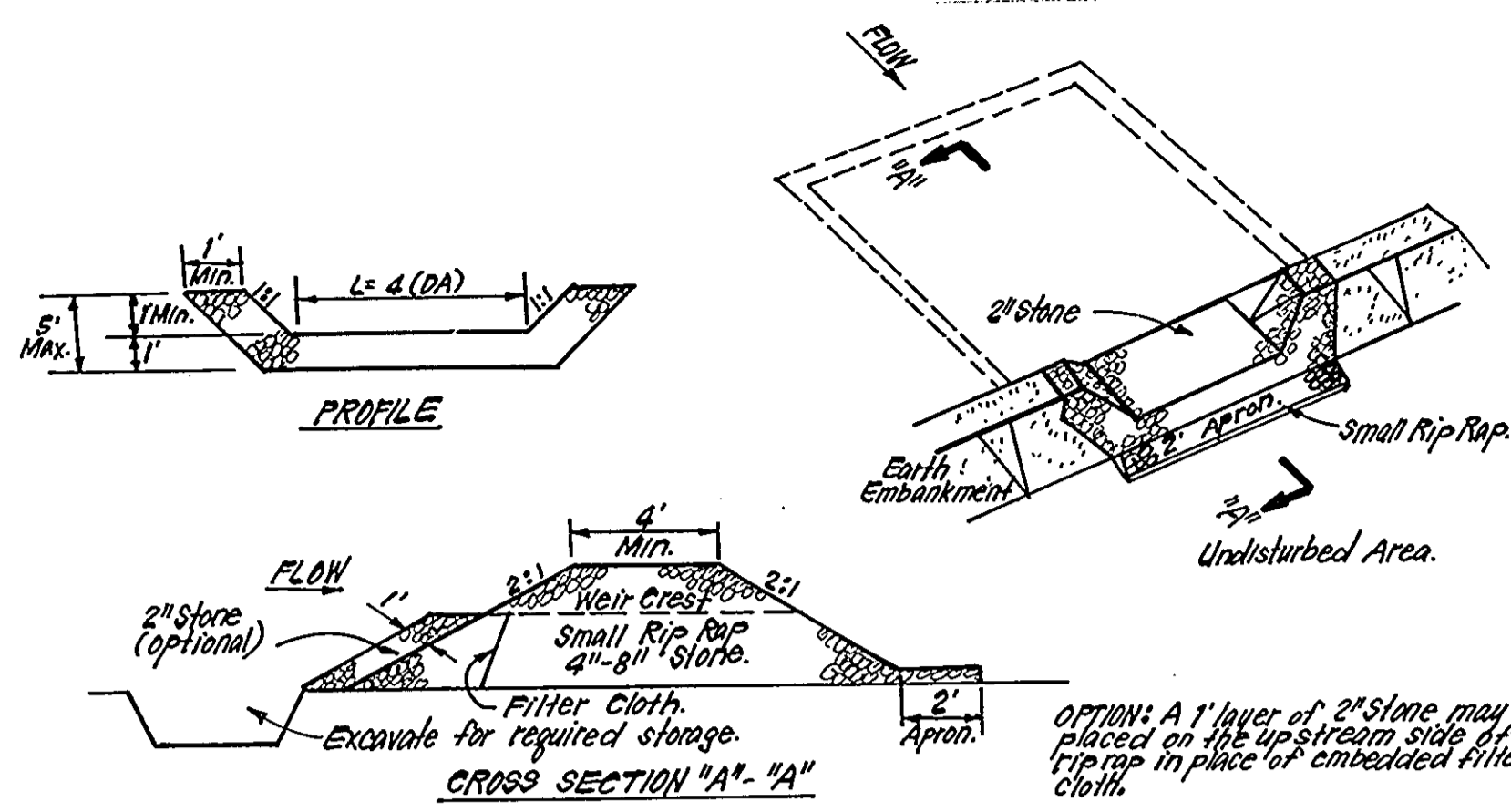
**FLOW CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 4.0%	Seed & Straw Mulch	Seed w/line, or Excelsior's Sod, 2" Stone
3	5.1 - 6.0%	Seed w/line, or Sod, 2" Stone	Lined Rip Rap 4"-8" Stone
4	6.1 - 20.0%	Lined Rip Rap 4"-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.  
 B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.  
 C. Approved equivalents can be substituted for any of the above materials.

**EARTH DIKE DETAIL (E.D.)**

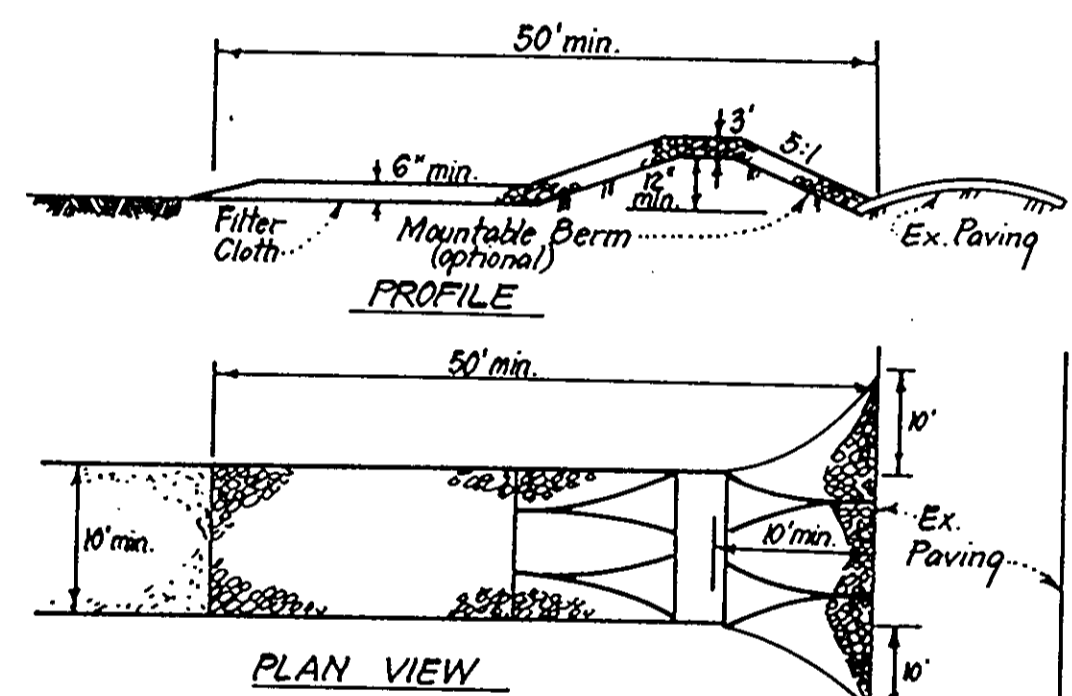
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment of which it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V.**

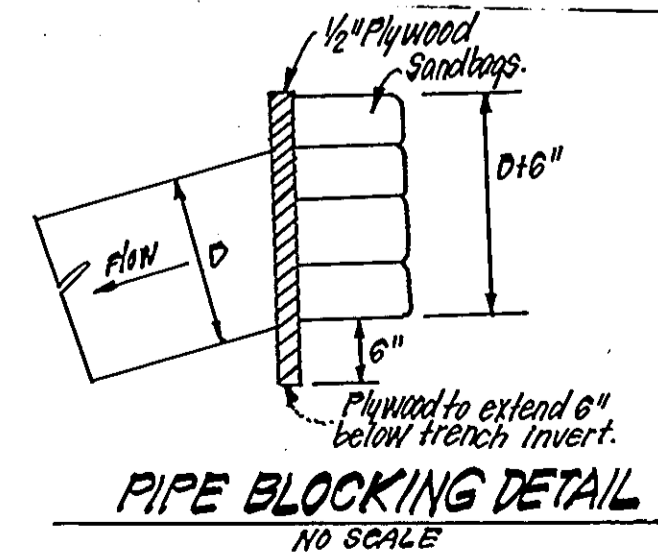
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**

NO SCALE



**PIPE BLOCKING DETAIL**

NO SCALE

**SEDIMENT CONTROL NOTES**

- 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. (992-2437)
- 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. 50) and (Sec. 51) sod (Sec. 54), 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	7.636 Acres
Area Disturbed	5.872 Acres
Area to be roofed or paved	2.710 Acres
Area to be vegetatively stabilized	3.180 Acres
Total Cut	16,100 Cu. yds
Total Fill	16,100 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 DPW 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-Sold" basis, at random, 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).
- The total amount of straw bale dikes/silt fence equals 870 L.F.

**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: Nail Meyerhoff  
 Date: 7-8-85

**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: Jeffrey L. Schinab  
 Date: 7-8-85



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 11-24-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: [Signature] DATE: 10-24-85  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 10-24-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 10-18-85  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10-18-85

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
 DATE: 9-4-85

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

DESIGNED: JLS  
 DRAWN: KIW  
 CHECKED: JLS  
 DATE: 7-29-85

**SEDIMENT & EROSION CONTROL DETAILS**  
 PARTIAL A  
**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE  
 SECTION 5 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

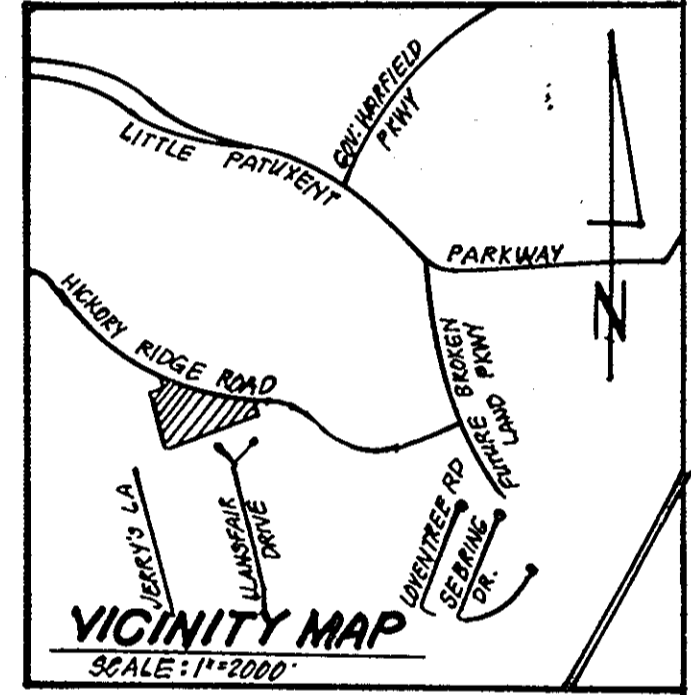
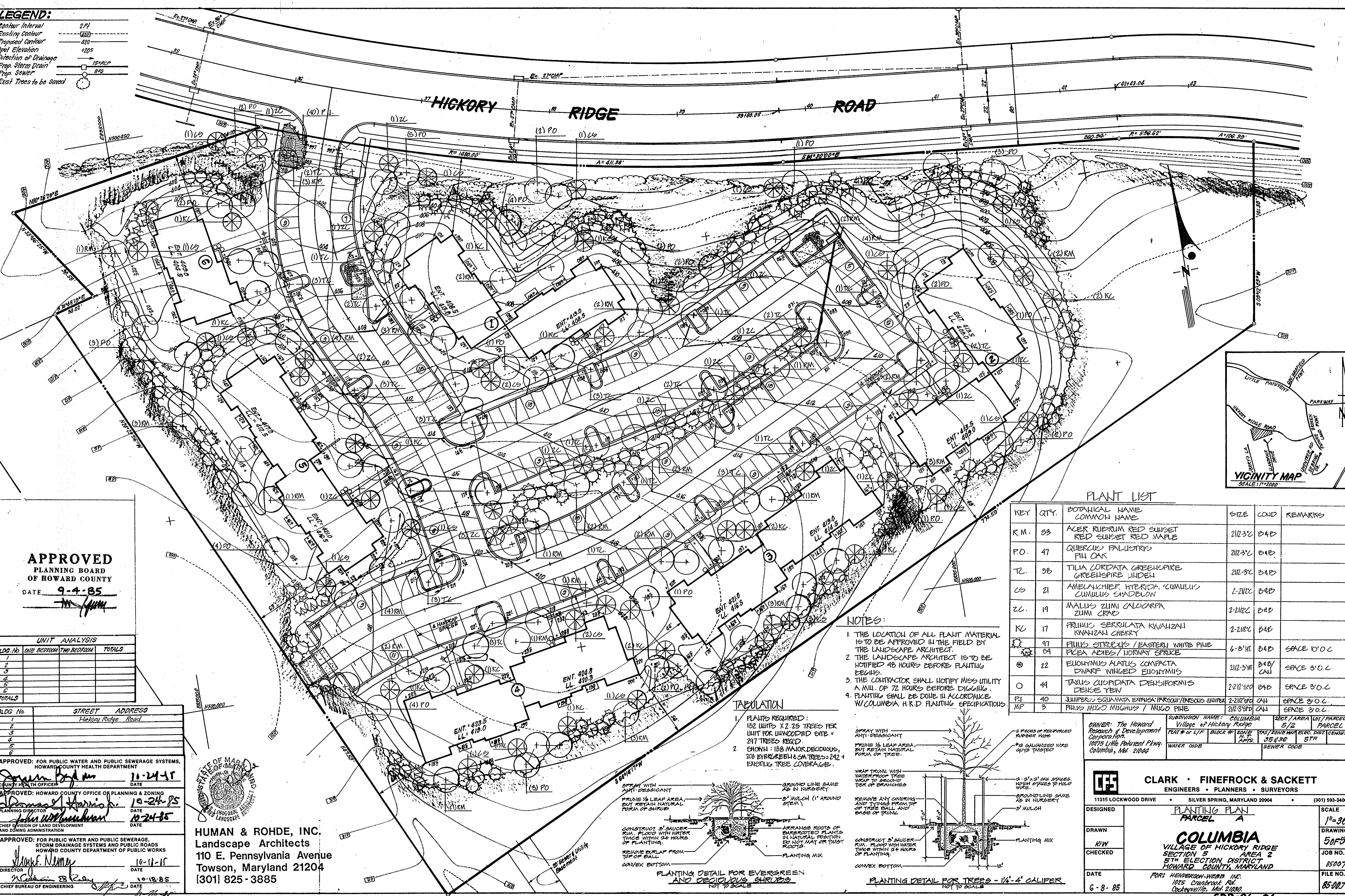
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 DRAWING: 4 OF 5  
 JOB NO.: 85-007  
 FILE NO.: 85-007-9E

FOR: HENDERSON-WEBB INC.  
 1025 CRANFORD RD.  
 ROCKEVILLE, MD. 20850  
**SDP-86-06**

OWNER: The Howard Research & Development Corporation  
 10715 LITTLE PATENT PIKE  
 Columbia, Md. 21044



**LEGEND:**  
 Contour Interval 2' F.I.  
 Existing Contour - - - - -  
 Proposed Contour - - - - -  
 Spot Elevation +205  
 Direction of Drainage  
 Prop. Storm Drain 18" RCP  
 Prop. Sewer 8" S  
 Exist. Trees to be Saved



**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9-4-85

**UNIT ANALYSIS**

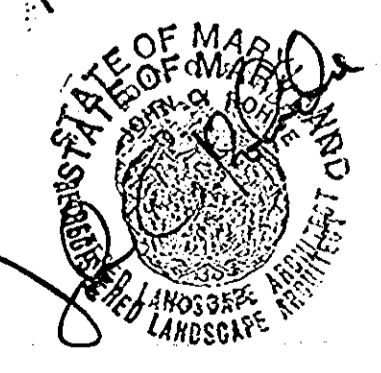
BLDG. No.	ONE BEDROOM	TWO BEDROOM	TOTALS
1			
2			
3			
4			
5			
6			
TOTALS			

**APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**  
 COUNTY HEALTH OFFICER: [Signature] DATE: 11-24-85

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
 PLANNING DIRECTOR: [Signature] DATE: 10-24-85

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
 DIRECTOR: [Signature] DATE: 10-11-85

**CHIEF BUREAU OF ENGINEERING**  
 [Signature] DATE: 10-18-85



**HUMAN & ROHDE, INC.**  
 Landscape Architects  
 110 E. Pennsylvania Avenue  
 Towson, Maryland 21204  
 (301) 825-3885

**PLANT LIST**

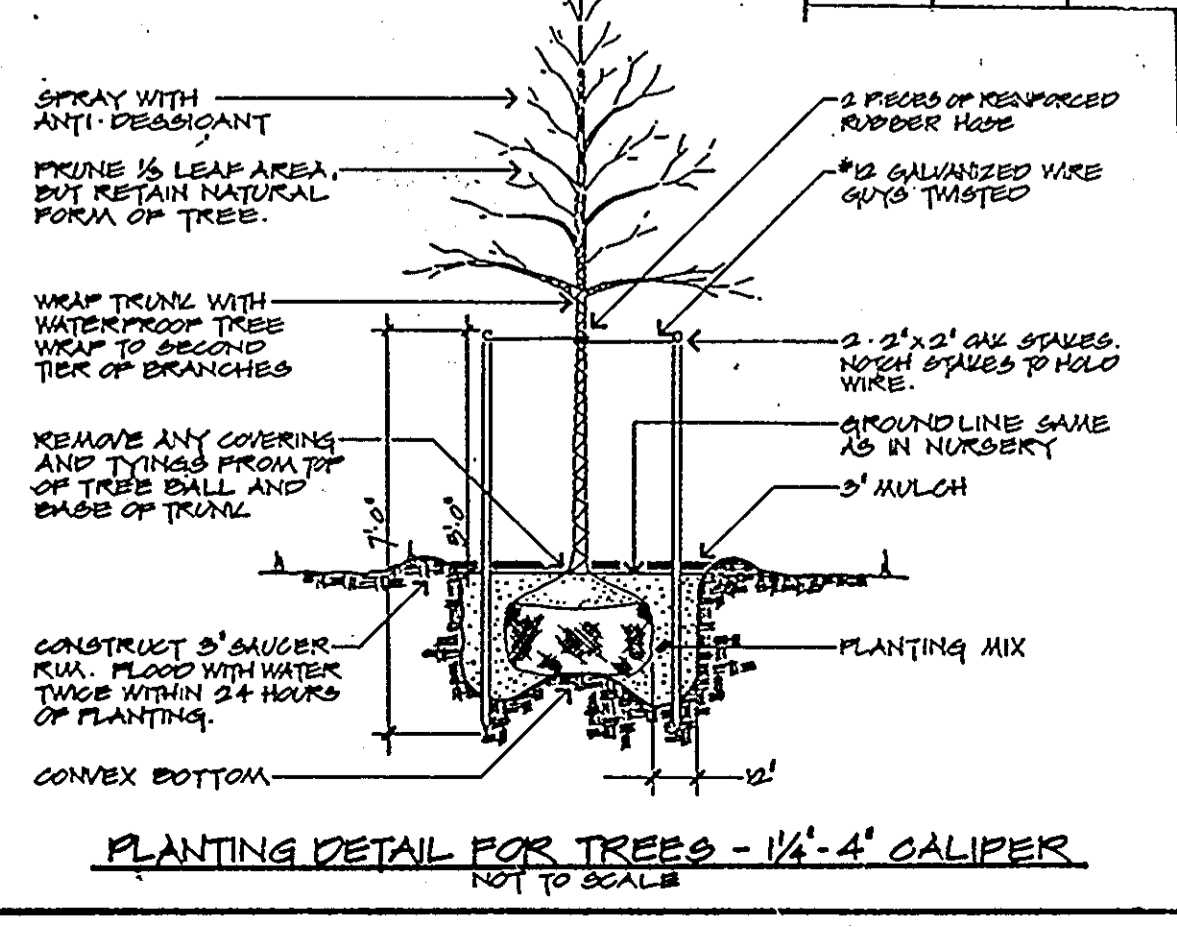
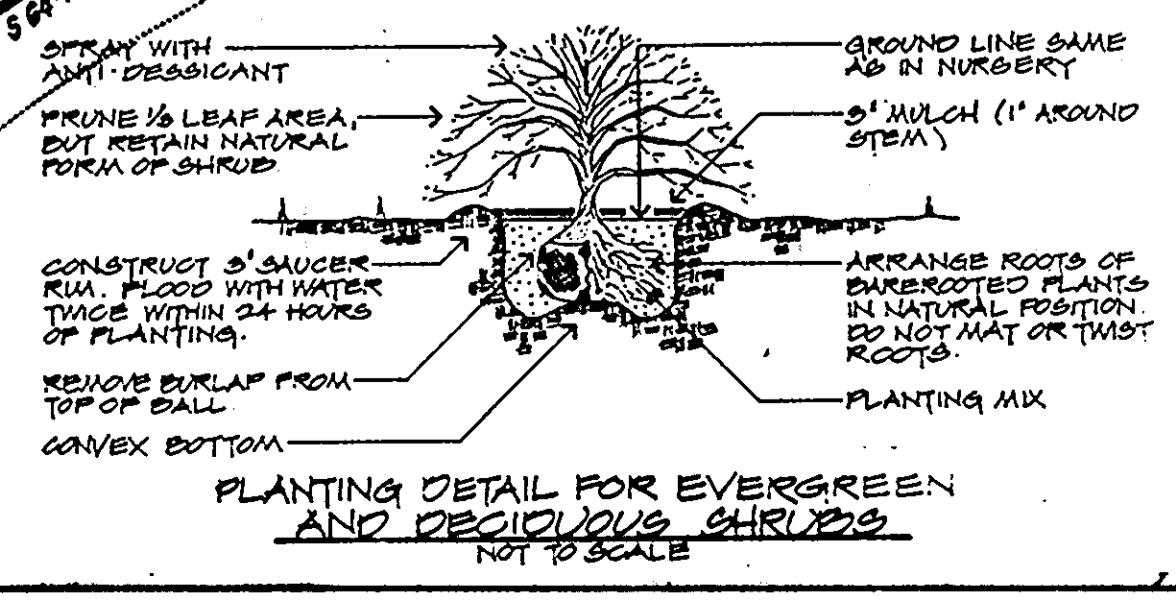
KEY	QTY.	BOTANICAL NAME COMMON NAME	SIZE	COND.	REMARKS
RM	53	ACER RUBRUM RED SUNSET RED SUNSET RED MAPLE	2 1/2" x 3"	B&D	
PO	47	QUERCUS FALICATIS PILE OAK	2 1/2" x 3"	B&D	
TC	38	TILIA LORDATA GREENSPIRE GREENSPIRE LINDEN	2 1/2" x 3"	B&D	
CS	21	AMELANCHIER HYBRIDA 'CUMULUS' CUMULUS SHADBLON	2-2 1/2"	B&D	
ZC	19	MALUS ZUMI CALOCORPA ZUMI CRAB	2-2 1/2"	B&D	
KC	17	PRUNUS SERRULATA KWANZHAN KWANZHAN CHERRY	2-2 1/2"	B&D	
ST	97	PHILUS STROBUS / EASTERI WHITE PINE	6-8" HT	B&D	SPACE 1' O.C.
AD	54	PLCEA ADRES / NORWAY SPRUCE	6-8" HT	B&D	SPACE 3' O.C.
EL	22	ELIOMYRUS ALATUS COMPACTA DWARF WINGED ELIOMYRUS	2 1/2" x 3"	CALL	SPACE 3' O.C.
TA	44	TAXUS CUSPIDATA DENSIFORMIS DENISE YEW	2 1/2" x 3"	B&D	SPACE 3' O.C.
JP	40	JUNIPERUS SQUAMATA EXPANSA PARSONS/JUNIPERUS JUNIPER	2-2 1/2"	CALL	SPACE 3' O.C.
MP	3	PIRUS MUGO MUGUS / MUGO FINE	2 1/2" x 3"	CALL	SPACE 3' O.C.

**NOTES:**

- THE LOCATION OF ALL PLANT MATERIAL IS TO BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- THE LANDSCAPE ARCHITECT IS TO BE NOTIFIED 48 HOURS BEFORE PLANTING DETAILS.
- THE CONTRACTOR SHALL NOTIFY MESS UTILITY A MIN. OF 72 HOURS BEFORE DIGGING.
- PLANTING SHALL BE DONE IN ACCORDANCE WITH COLUMBIA H.R.D. PLANTING SPECIFICATIONS.

**TABULATION**

- PLANTS REQUIRED:  
132 UNITS X 2.25 TREES PER UNIT FOR UNWOODED SITE = 297 TREES REQ'D.
- CHOSEN: 188 MAJOR DECIDUOUS, 208 EVERGREEN & SH. TREES = 242 + EXISTING TREE COVERAGE.



**OWNER:** The Howard Research & Development Corporation  
 10775 Little Patriot Pkwy., Columbia, Md. 21044

**SUBDIVISION NAME:** COLUMBIA Village of Hickory Ridge  
**PLAT # OF L/F:** BLOCK # 10  
**APTS:** 35 # 36  
**5TH**  
**SEWER CODE**

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

**DESIGNED:** [Signature] DATE: 8-8-85

**DRAWN:** [Signature] DATE: 8-8-85

**CHECKED:** [Signature] DATE: 8-8-85

**DATE:** 8-8-85

**SCALE:** 1" = 30'

**DRAWING:** 50F5

**JOB NO.:** 85007

**FILE NO.:** 85007L3

**PLANTING PLAN**  
**PARCEL A**  
**COLUMBIA**  
 VILLAGE OF HICKORY RIDGE  
 SECTION 5 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**FOR: HENPERSON-WEBB INC.**  
 1025 Chantrelle Rd.  
 Croftsville, Md. 21030