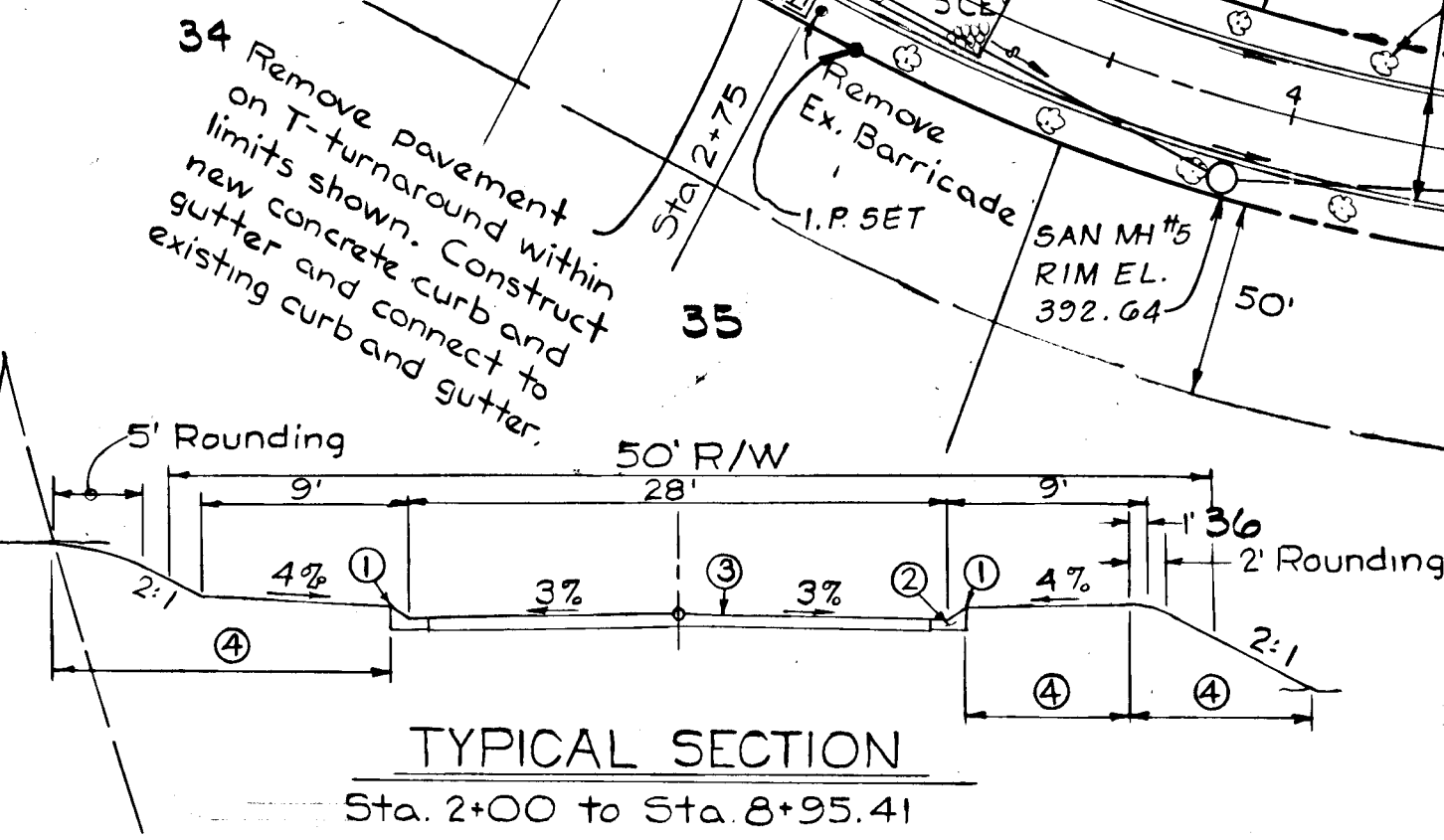
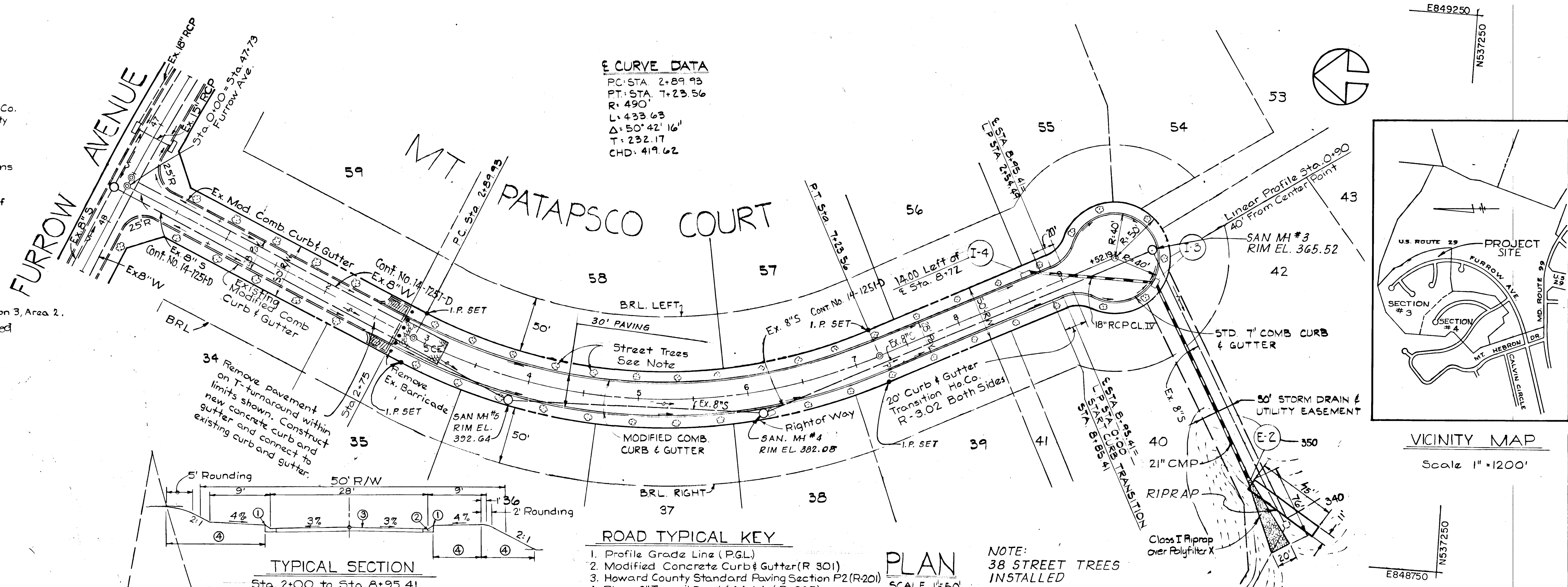


GENERAL NOTES

- 1) Construction shown hereon shall be in accordance with the Howard County Standard Specifications and details.
- 2) Page and drawing No's referenced hereon are taken from the Standard Specification and Details of Ho. Co.
- 3) Elevations shown hereon are based on the Howard County Vertical Control Datum.
- 4) The location of existing utilities shown on the drawing are based on the latest available information. The Contractor shall, however, determine the exact locations and shall notify "Miss Utility" at least three (3) days prior to beginning work.
- 5) The developer shall notify the Howard County Office of inspection and permits at least 24 hours prior to beginning any construction hereon. (992-2435 or 992-2436)
- 6) Provide street trees at 40' interval. Trees shall have a min. trunk diameter of 2 1/2" and shall be hardwood variety and indigenous to the area. Acer Rubrum (Red Maple) is recommended.
- 7) Stormwater Management Facility for this development provided on F-84-120 plans for Section 3, Area 2.
- 8) A waiver for sidewalk requirement was approved under VP-84-76

E CURVE DATA

PC STA 2+89.93
 PT STA 7+23.56
 R 490'
 L 433.63
 Δ 50° 42' 16"
 T 232.17
 CHD 419.62

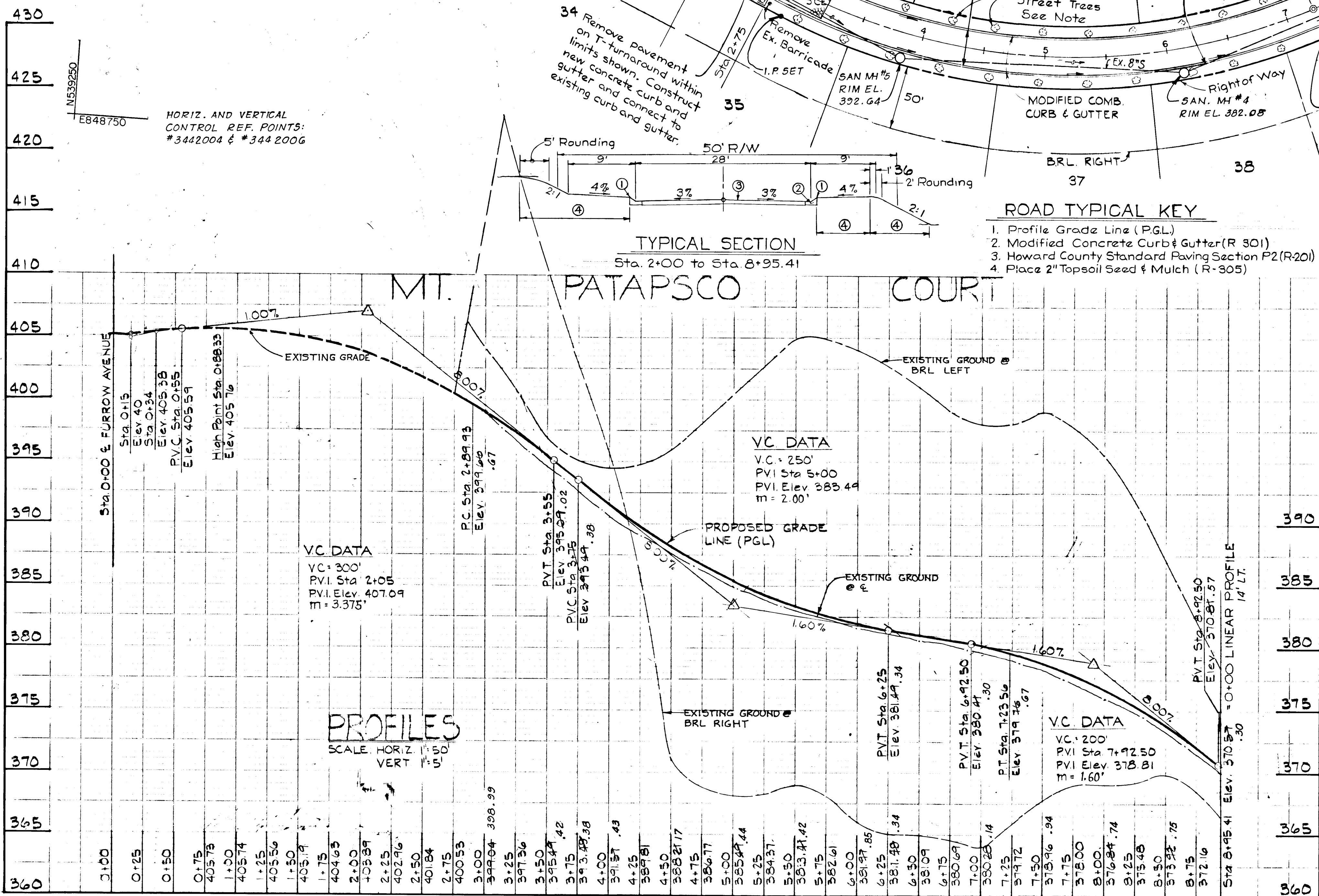


ROAD TYPICAL KEY

1. Profile Grade Line (PGL)
2. Modified Concrete Curb & Gutter (R 301)
3. Howard County Standard Paving Section P2 (R20)
4. Place 2" Topsoil Seed & Mulch (R-305)

PLAN
 SCALE 1"=50'

NOTE:
 38 STREET TREES
 INSTALLED



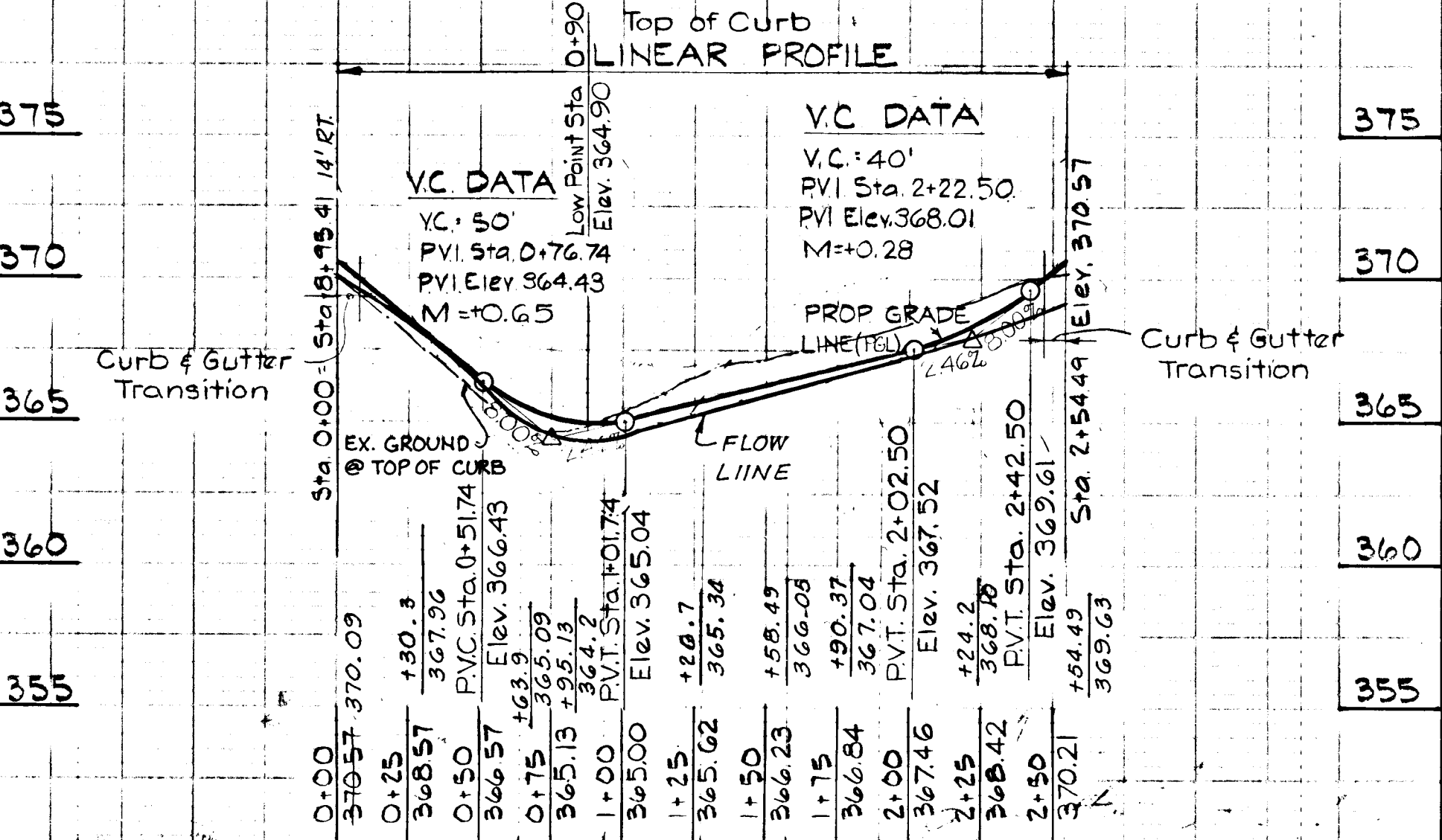
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. Fisher* 9/23/86
 Howard Soil Conservation District Date

Joseph M. Volm 9-23-86
 U.S. Soil Conservation Dist. Date

TO THE BEST OF MY KNOWLEDGE THE ITEMS SHOWN ON THIS PLAN AS MARKED WERE CONSTRUCTED AS SHOWN ON THESE "AS BUILT" PLANS

DATE: 1/17/92



PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1073 North Calvert Street
 Baltimore, Md. 21202

Approved: Howard County Department of Public Works
[Signature]
 Chief, Bureau of Engineering Date

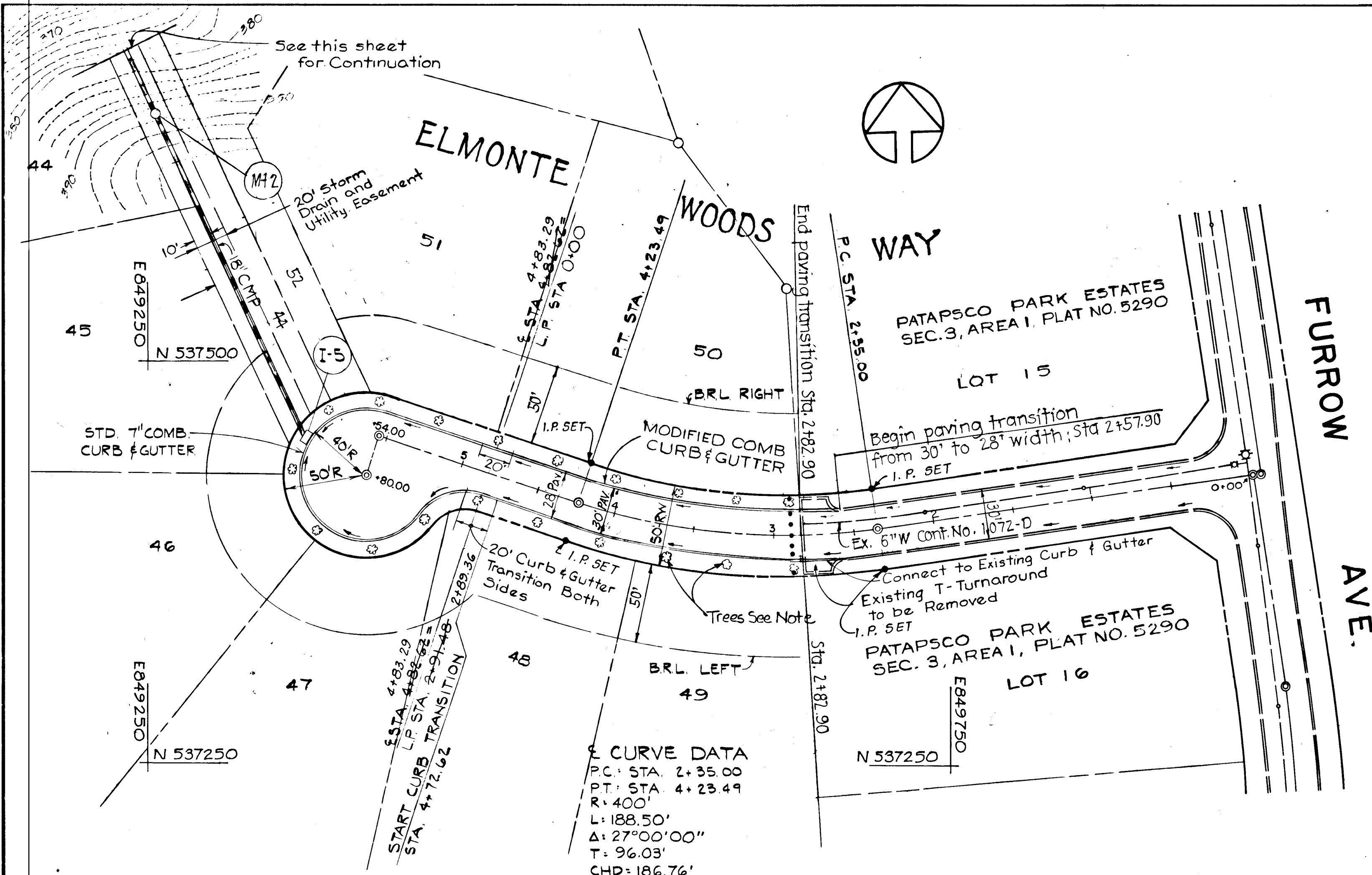
Approved: Howard County Office of Planning and Zoning
[Signature] 9/23/86
 Chief Div. of Land Development and Zoning Admin. Date

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
[Signature] 4/1/86

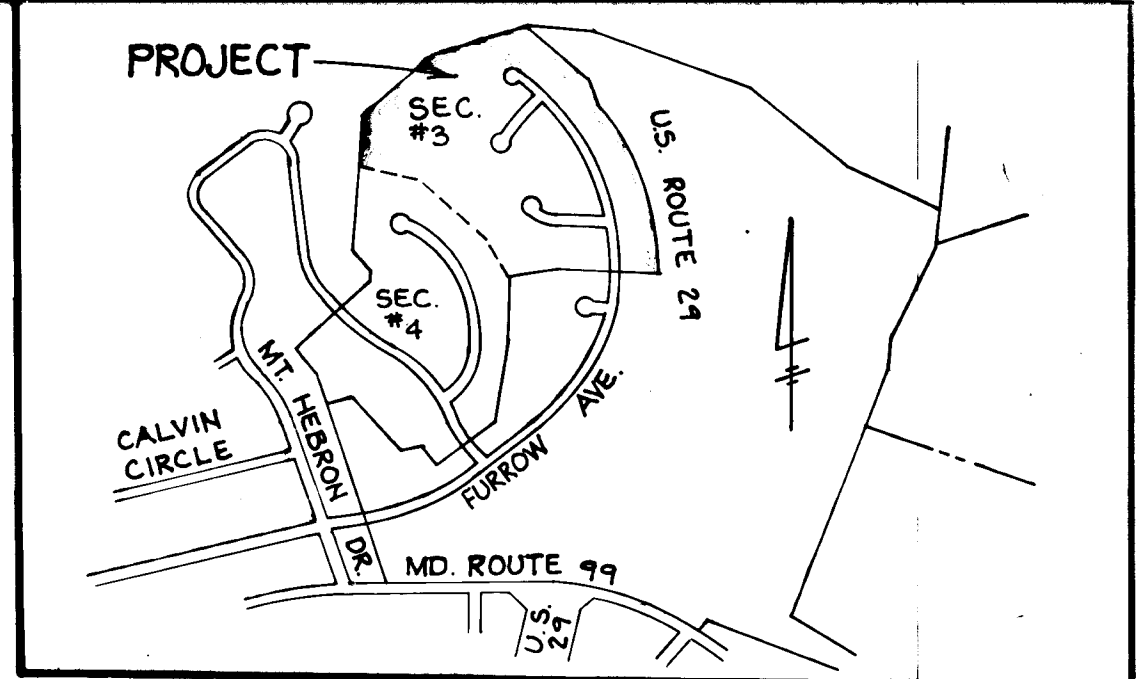
ENGINEERS CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
[Signature] 6/12/86
 William S. Rasch II Date



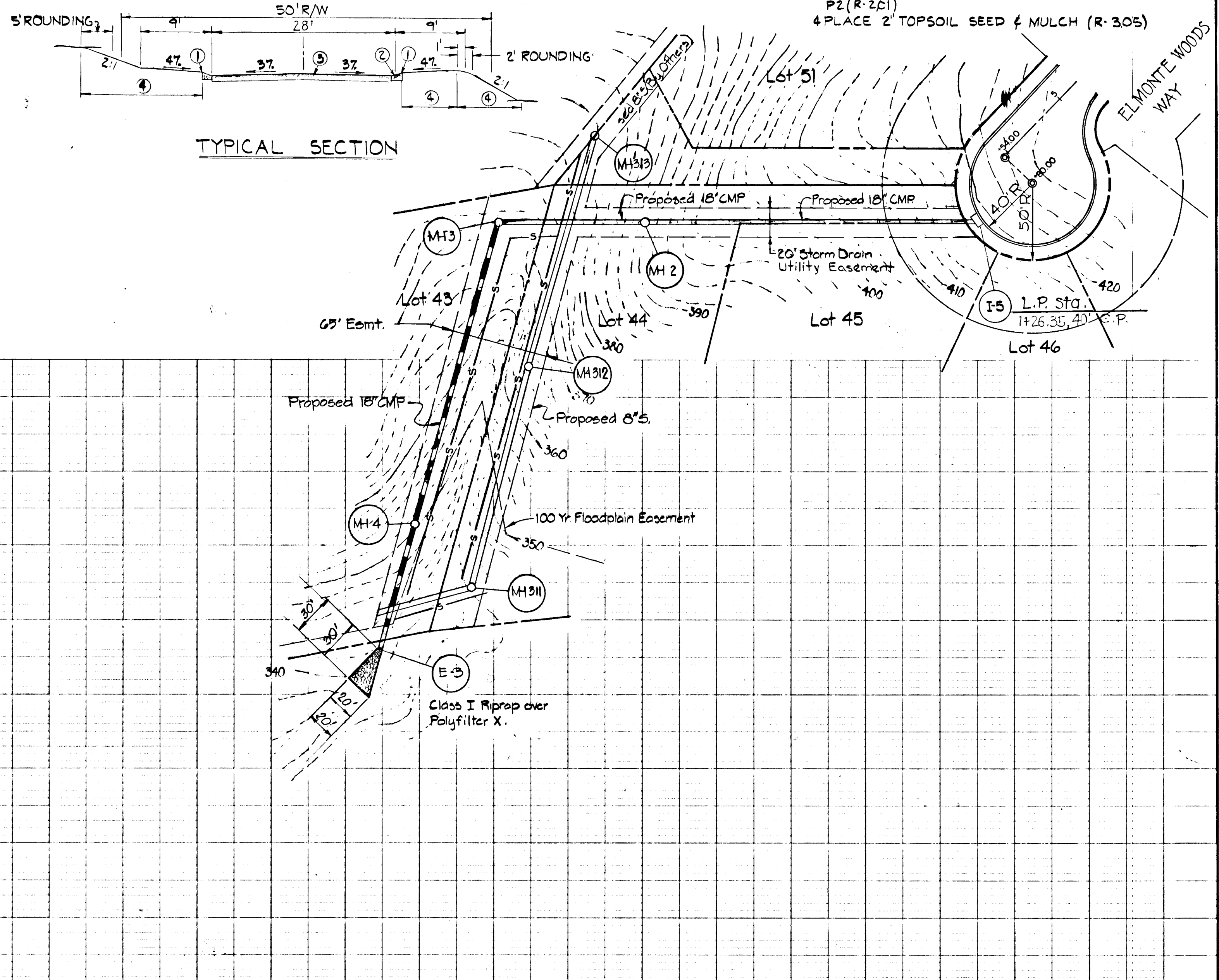
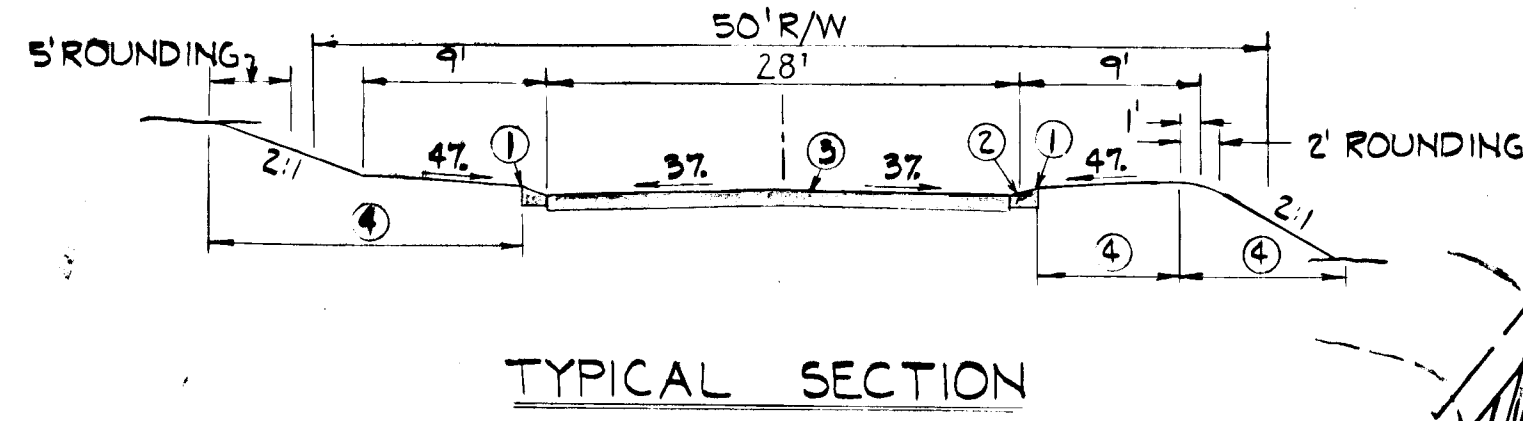
MT. PATAPSCO COURT & TREE PLANTING & STORM DRAIN PLANS & PROFILES
PATAPSCO PARK ESTATES
 SECTION 3, AREA 3 & 4
 FIRST ELECT. DIST. HOWARD CO. MARYLAND
 TAX MAP 17
 DATE: SEPT 15, 1986 SCALE: AS NOTED
 SHEET 1 OF 6
 DES: ATR.
 DRW: J.E.F.
 CHK: ATR.
 JOB NO. 5405-60



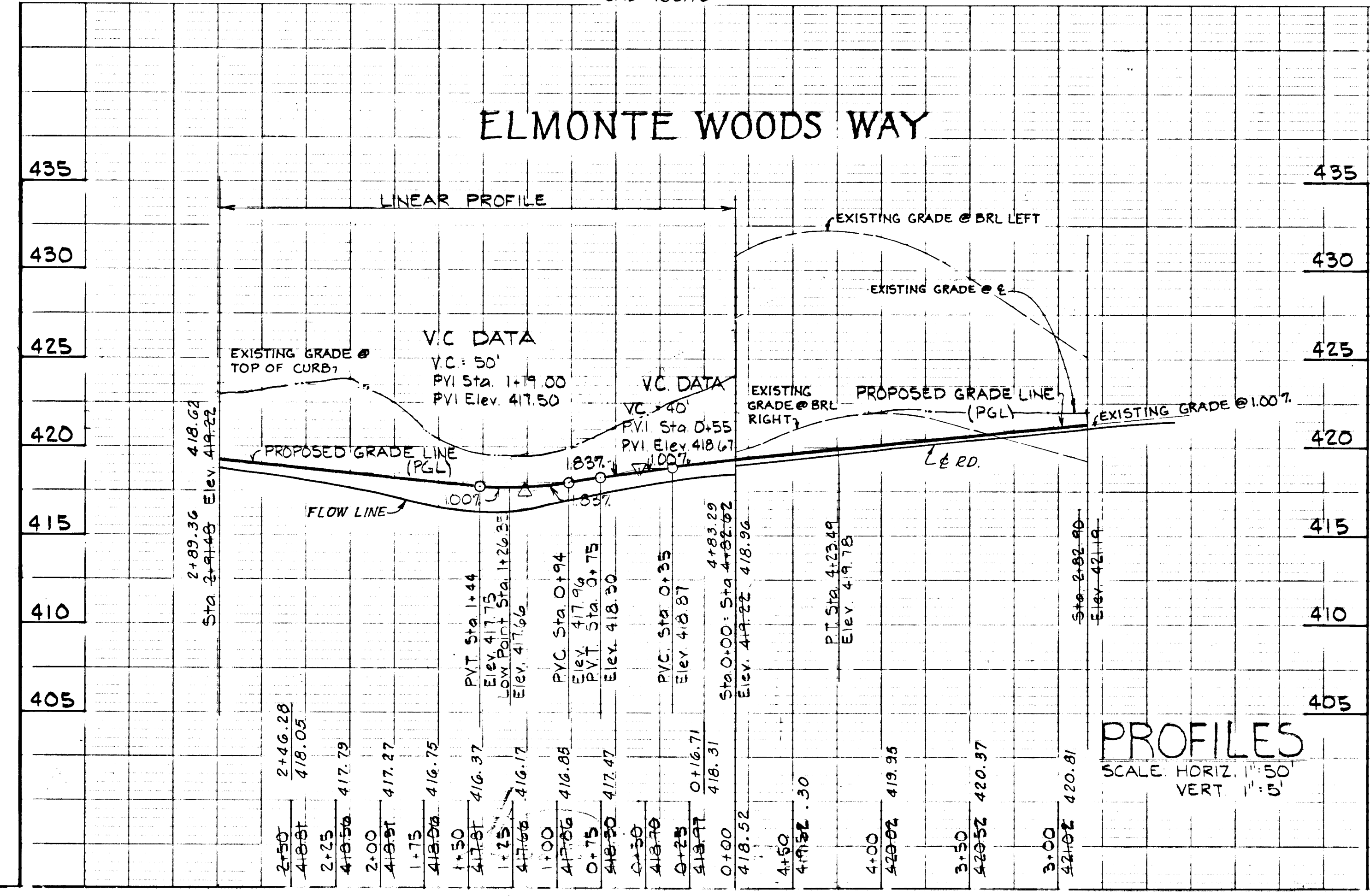
- ### GENERAL NOTES
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 - 2) Page and drawing No's referenced hereon are taken from the Standard Specification and Details of Ho.Co.
 - 3) Elevation shown hereon are based on the Howard County Vertical Control Datum.
 - 4) The location of existing utilities shown on the drawing are based on the latest available information. The Contractor shall, however, determine the exact locations and shall notify "Miss Utility" at least three (3) days prior to beginning work.
 - 5) The developer shall notify the Howard County Office of Inspection and permits at least 24 hours prior to beginning any construction hereon. (992-2435 or 992-2436).
 - 6) Provide street trees at 40' intervals. Trees shall have min. trunk diameter of 2 1/2", and shall be hardwood variety and indigenous to the area.
- NOTE: 18 STREET TREES INSTALLED



- ### ROAD TYPICAL KEY
1. PROFILE GRADE LINE (PGL)
 2. MODIFIED CONCRETE CURB & GUTTER (R-301)
 3. HOWARD COUNTY STANDARD PAVING SECTION P2 (R-201)
 4. PLACE 2" TOPSOIL SEED & MULCH (R-305)



CURVE DATA
 P.C. STA. 2+35.00
 P.T. STA. 4+23.49
 R=400'
 L=188.50'
 Δ=27°00'00"
 T=96.03'
 CHD=186.76'



This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. Kelly* 9/23/86
 Howard Soil Conservation District Date

Approved: *Thomas A. Helm* 9-23-86
 U.S. Soil Conservation Dist. Date

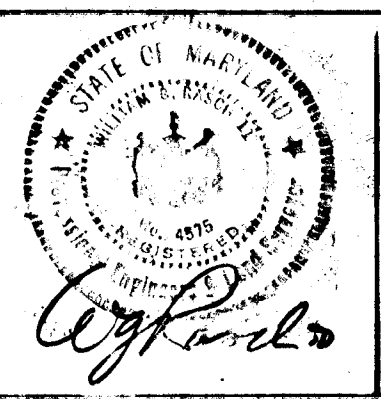
PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1023 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

Approved: Howard County Department of Public Works
Michael J. ...
 Chief, Bureau of Engineering Date

Approved: Howard County Office of Planning and Zoning
John M. ... 9-23-86
 Chief Div. of Land Development and Zoning Admin. Date

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
William G. Rasch II 6/12/86

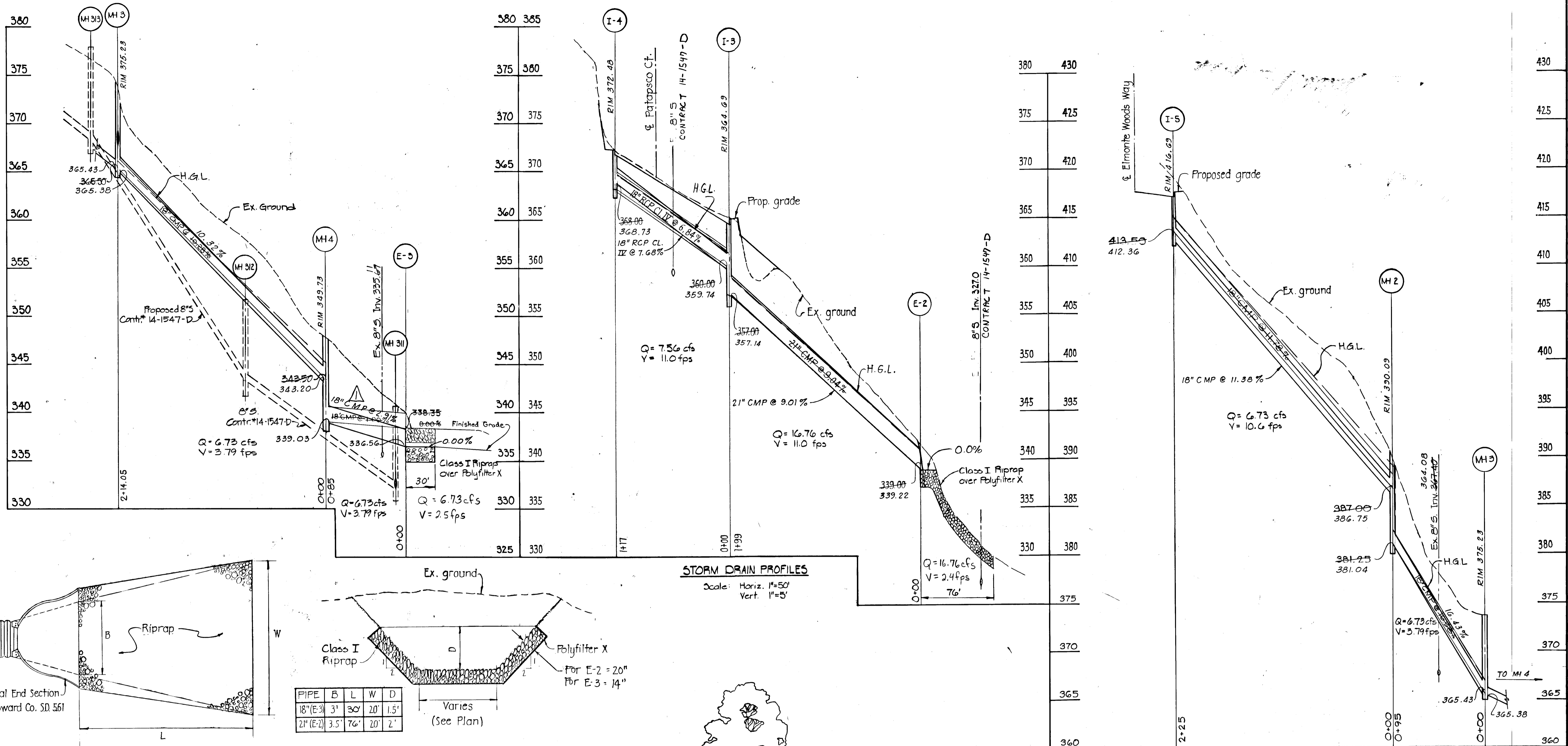
ENGINEERS CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
William G. Rasch II 6/12/86
 William G. Rasch II Date



ROADS & STORM DRAIN & TREE PLANTING PLANS & PROFILES
PATAPSCO PARK ESTATES SECTION 3, AREA 3 & 4
 FIRST ELECT. DIST. HOWARD CO. MARYLAND TAX MAP 17 PARCEL 38
 DATE: Sept. 15, 1986 SCALE: AS NOTED

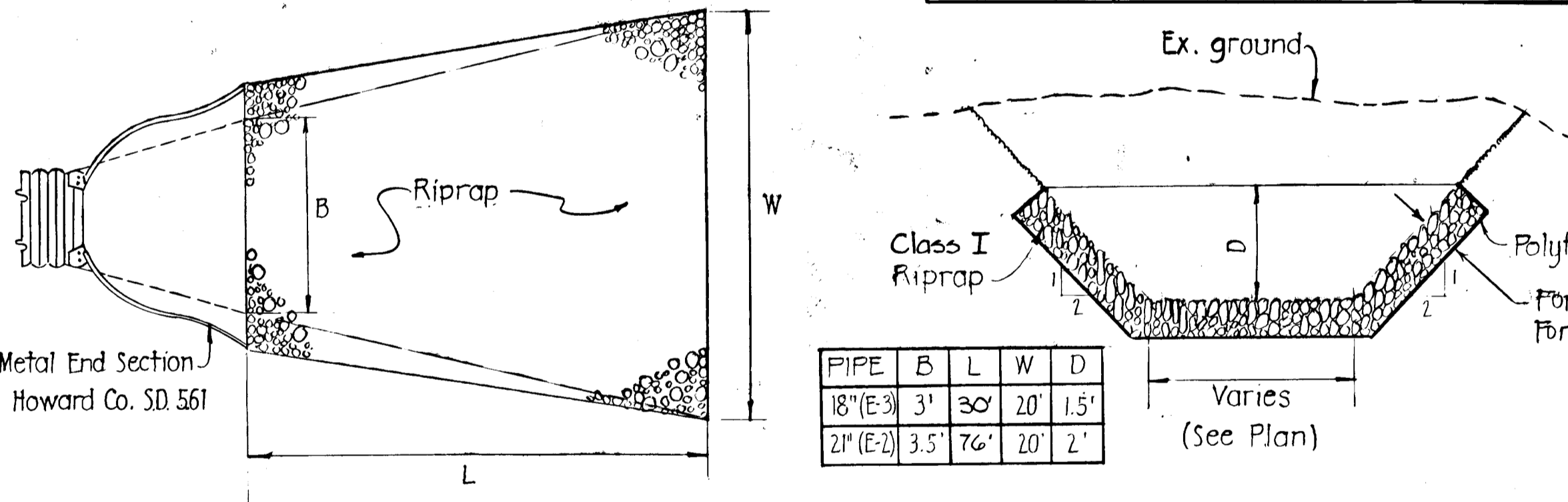
SHEET 2 OF 6
 DES: A.T.R.
 DRW: J.E.F.
 CHK: A.T.R.
 JOB NO. 5405-60

405

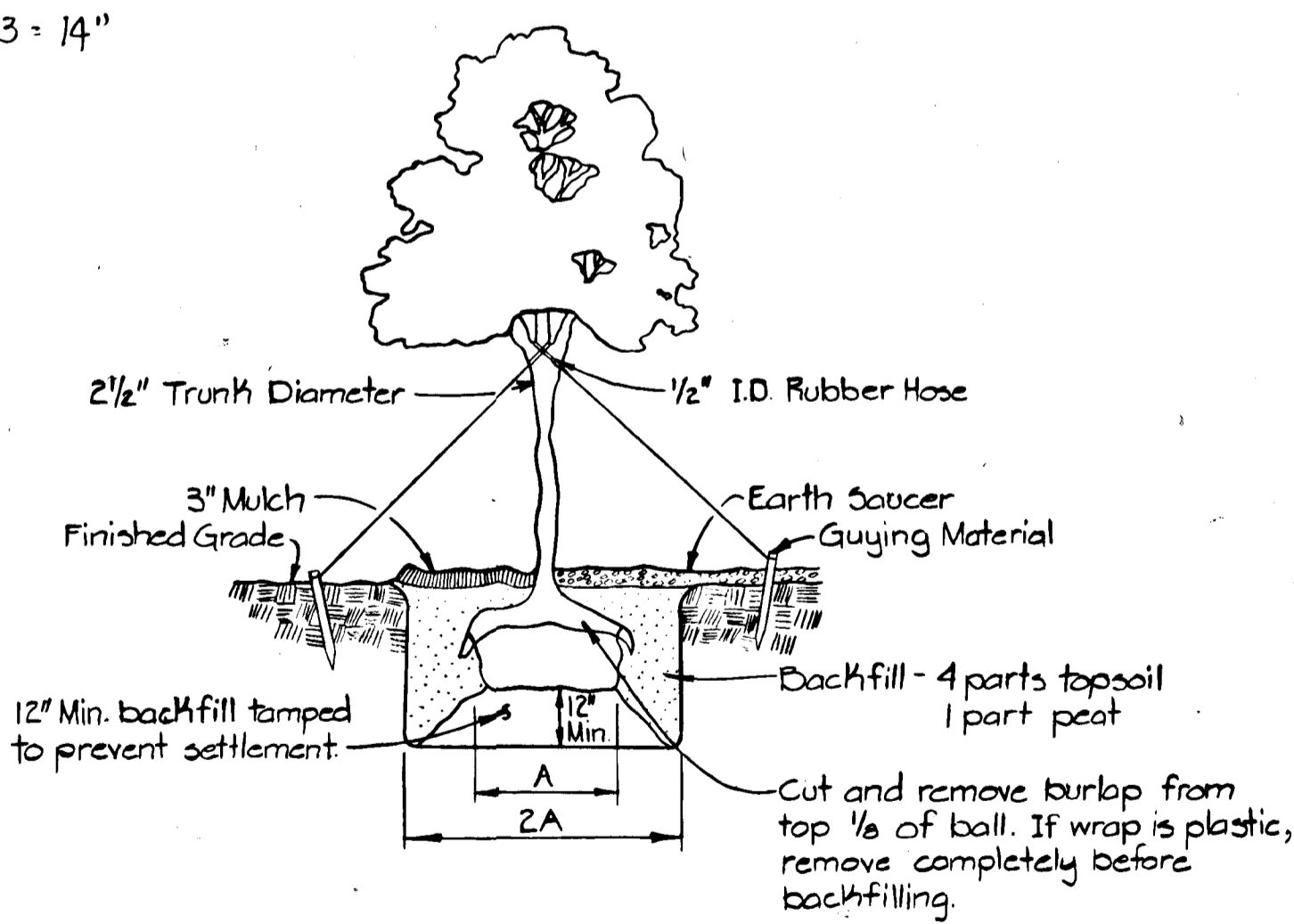


STORM DRAIN PROFILES

Scale: Horiz. 1"=50'
Vert. 1"=5'



RIPRAP OUTLET PROTECTION DETAIL
NOT TO SCALE



STREET TREE PLANTING DETAIL
NOT TO SCALE

STRUCTURE SCHEDULE						
No.	Type	Inn. In	Inn. Out	Top Elev.	Std. No.	& Flood Sta.
I-3	A-10	360.00	357.00	364.70	S.D. -4.02	LP Sta. 0+90
I-4	A-10 w/deflector	-	368.00	372.37	SD 402; SD 483	Sta 8+72.L
I-5	A-10	-	413.50	417.66	SD 402	LP 1+26.35
MH 2	Brick or Precast	387.00	381.75	390.00	G501 or G511	See Plan
MH 3	Brick or Precast	365.50	365.50	373.70	G501 or G511	See Plan
MH 4	Brick or Precast	343.50	339.20	347.75	G501 or G511	See Plan
E-2	Metal End Section	-	339.00	340.75	SD 561	See Plan
E-3	Metal End Section	-	336.00	337.50	SD 561	See Plan

Date	Descriptions	By
10-18-88	Change Slope of 18\"/>	B.G.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. Huber* 9/23/88
Howard Soil Conservation District Date

Approved: *James M. Helms* 9-23-88
U.S. Soil Conservation Dist. Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

Approved: Howard County Department of Public Works
M. J. ... 10-28-88
Chief, Bureau of Engineering Date

Approved: Howard County Office of Planning and Zoning
... 9-23-88
Chief Div. of Land Development and Zoning Admin. Date

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.

... 4/12/88

ENGINEERS CERTIFICATION
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William G. Rasch II 6/12/88
William G. Rasch II Date



STORM DRAIN PROFILE & DETAILS
PATAPSCO PARK ESTATES
SECTION 3, AREA 3 & 4
FIRST ELECT. DIST. HOWARD CO. MARYLAND
TAX MAP 17 PARCEL 38
DATE: SEPT. 15, 1986 SCALE: AS NOTED

SHEET 30F L6
DES: A.T.R.
DRW: J.E.F.
CHK: A.T.R.
JOB NO. 5405-60



This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *Stephen L. Flahn* 9/27/86 Date
Howard Soil Conservation District

Approved: *James P. Miller* 9-23-86 Date
U.S. Soil Conservation Dist.

SCALE: 1" = 100'

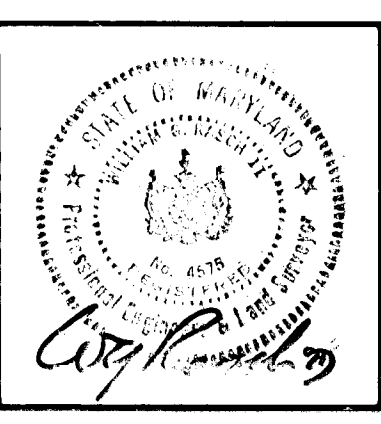
PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

Approved: Howard County Department of Public Works
William H. ... 10-28-86 Date
Chief, Bureau of Engineering

Approved: Howard County Office of Planning and Zoning
James W. ... 9-23-86 Date
Chief Div. of Land Development and Zoning Admin.

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
James W. ... 9/1/86

ENGINEERS CERTIFICATION
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
William G. Rasch II 6/12/86 Date
William G. Rasch II



DRAINAGE AREA MAP
PATAPSCO PARK ESTATES
SECTION 3, AREA 3 & 4
FIRST ELECT. DIST. HOWARD CO. MARYLAND
TAX MAP 17 PARCEL 38
DATE: Sept. 15, 1986 SCALE: AS NOTED JOB NO. 5405-60

405

SEDIMENT TRAP #1 D.A. = 2.75 Ac.

Volume Req'd 67 x 2.75 = 184.25 CY
 Volume Provided 5010 CF = 185.56 CY
 Length of Outlet 6 x 2.75 = 16'
 Bottom Elev. 366.00
 Crest Elev. 371.50
 Clean Out Elev. 368.75
 Top Embankment 372.00

Note: All Sediment Control Devices are in place per GP-24-17.

SEDIMENT TRAP #3 D.A. = 4.70 Ac.

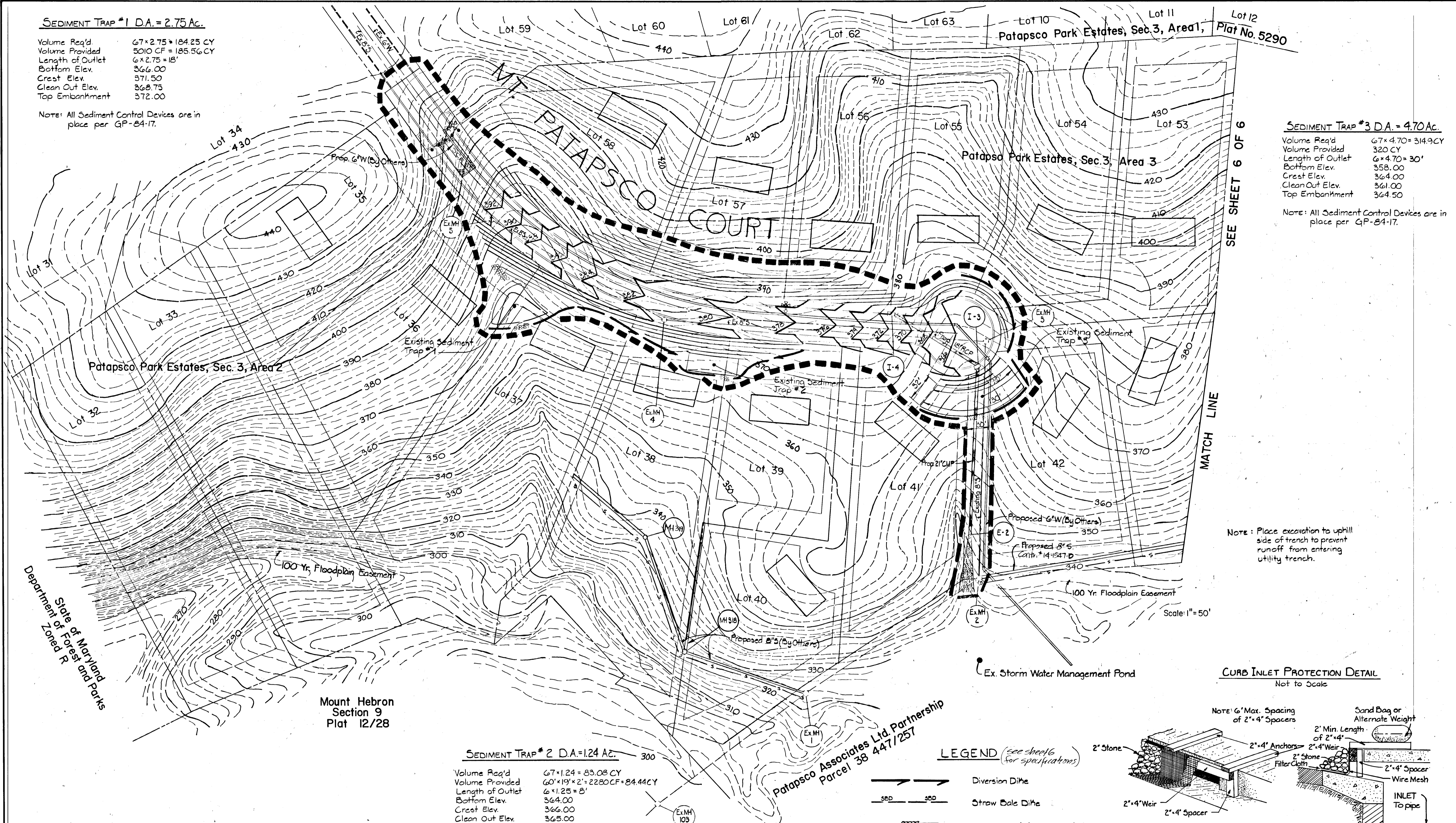
Volume Req'd 67 x 4.70 = 314.9 CY
 Volume Provided 320 CY
 Length of Outlet 6 x 4.70 = 30'
 Bottom Elev. 358.00
 Crest Elev. 364.00
 Clean Out Elev. 361.00
 Top Embankment 364.50

Note: All Sediment Control Devices are in place per GP-24-17.

SEDIMENT TRAP #2 D.A. = 1.24 Ac.

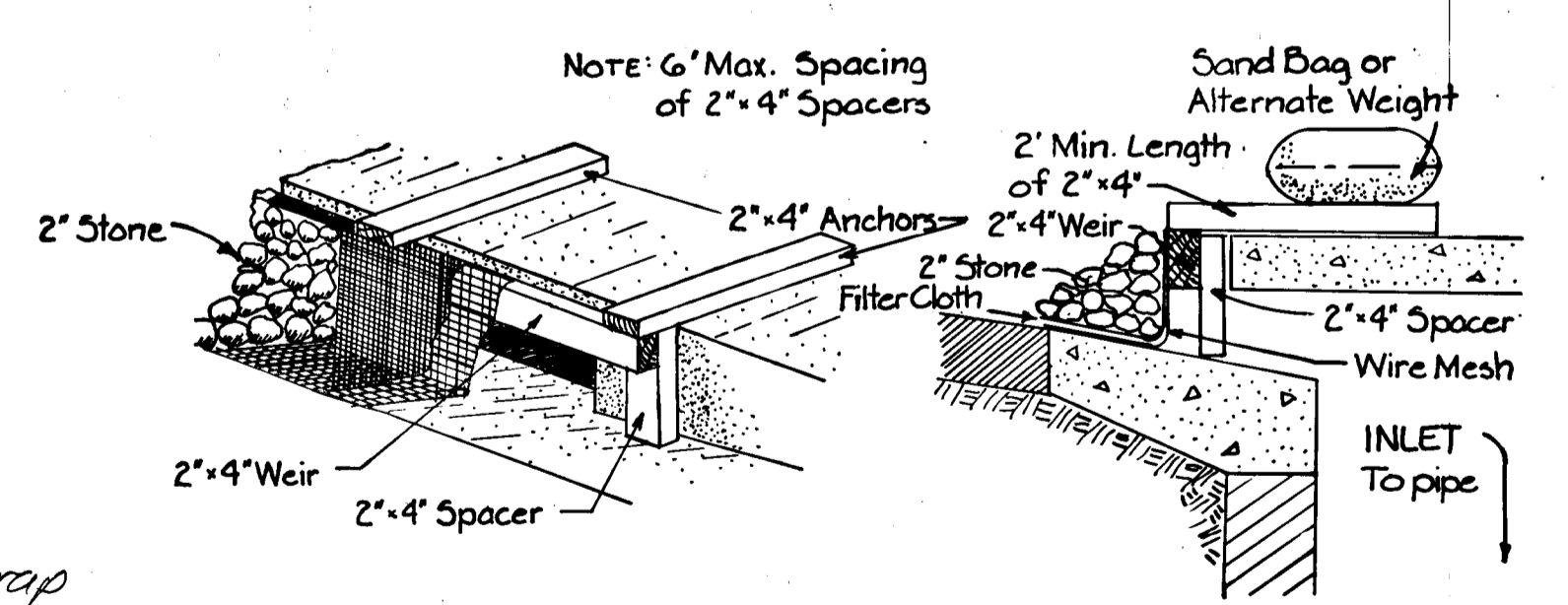
Volume Req'd 67 x 1.24 = 83.08 CY
 Volume Provided 60' x 19' x 2' = 2280 CF = 84.44 CY
 Length of Outlet 6 x 1.25 = 8'
 Bottom Elev. 366.00
 Crest Elev. 366.00
 Clean Out Elev. 365.00
 Top Embankment 366.50

Note: All Sediment Control Devices are in place per GP-24-17.



Note: Place excavation to uphill side of trench to prevent runoff from entering utility trench.

CURB INLET PROTECTION DETAIL
 Not to Scale



LEGEND (see sheet 6 for specifications)

- Diversion Ditch
- Straw Bale Ditch
- Stone outlet sediment trap
- Limits of Disturbance
- Silt Fence
- Stabilized Construction Entrance

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *Stephen L. Huber* 9/23/86
 Howard Soil Conservation District Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: *James Mitchell* 9-23-86
 U.S. Soil Conservation Dist. Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
 1023 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

Approved: Howard County Department of Public Works

William H. ... 9-23-86
 Chief, Bureau of Engineering Date

Approved: Howard County Office of Planning and Zoning

John ... 9-23-86
 Chief Div. of Land Development and Zoning Admin. Date

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.

James ... 6/1/86
 Patapsco Associates Ltd. Partnership

ENGINEER'S CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

William G. Rasch II 6/1/86
 William G. Rasch II Date

HOUSE LOCATION PLAN
 EROSION AND SEDIMENT CONTROL PLAN
PATAPSCO PARK ESTATES
SECTION 3, AREA 3 & 4
 FIRST ELECT DIST. HOWARD CO. MARYLAND
 TAX MAP 17 PARCEL 38
 DATE: SEP 15, 1986 SCALE: AS NOTED

DES: A.T.R.
 DRW: J.E.F.
 CHK: A.T.R.

JOB NO. 5405-60

SEDIMENT CONTROL NOTES

1. A minimum of 24 hrs notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2. 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 (MD STD)
3. Following the 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
4. 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.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the MD Std 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 ditches do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative conditions until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site analysis:
 Total Area of site = 36.3 Acres
 Area Disturbed = 5.8 Acres
 Area to be roofed or paved = 1.1 Acres
 Area to be vegetatively stabilized = 4.7 Acres
 Earthwork = Balanced
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the HOWARD COUNTY DPW Sediment Control Inspector.
10. 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.

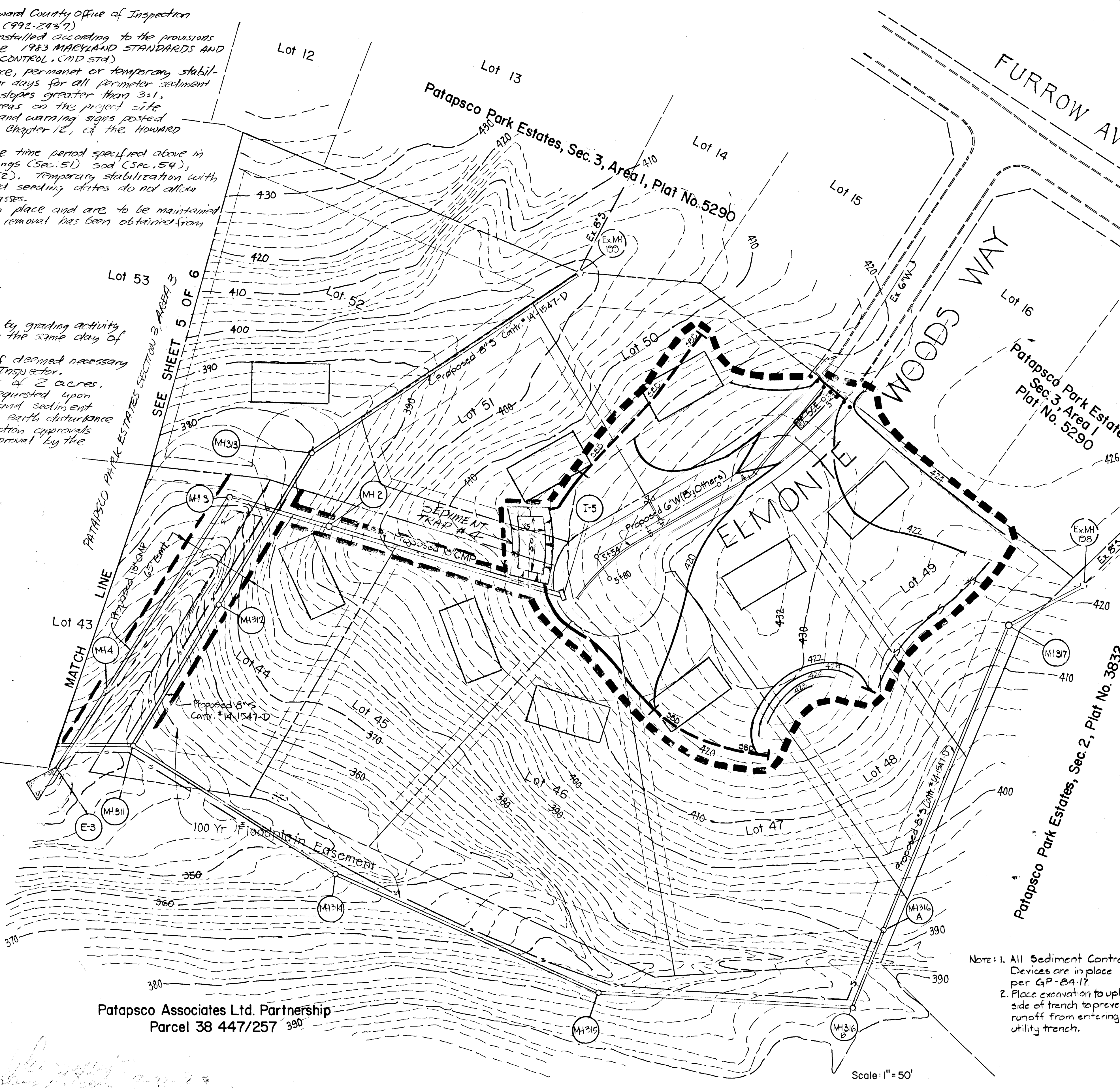
SEDIMENT TRAP #4 DA=2.88 AC
 Volume Required = 5184 CF (197 CR)
 Volume Provided = 5316 CF (197 CR)
 Length of outlet = 4 x 2.88 = 11.6'
 Bottom elev = 410.00
 Crest elev = 413.00
 Clean out elev = 411.00
 Top of embankment = 415.00

Reviewed for Howard Soil Conservation District and meets technical requirements.

James M. Adams 9-23-86
 S. Soil Conservation Dist. Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: *Stephen L. Fisher* 9/23/86
 Howard Soil Conservation District Date



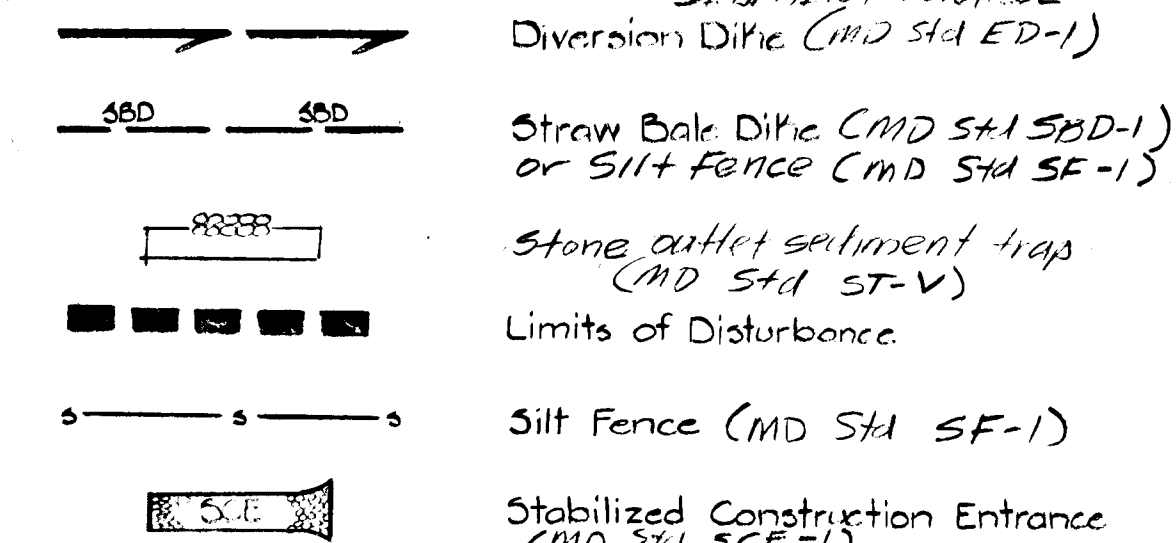
Patapsco Associates Ltd. Partnership
 Parcel 38 447/257

Scale: 1" = 50'

CONSTRUCTION SEQUENCE

1. Obtain grading permit.
2. Clear and grub for the installation of perimeter sediment control measures.
3. Install all sediment control devices shown.
4. Install 21" CMP between Inlets I-3 and E-2. Reconstruct stone outlet, block inlets I-3 & I-4 and divert water to trap #3 with curb opening.
5. Reconstruct sediment trap to proper dimensions and elevations (Trap #2) within same day of placing storm drain trench.
6. Grade road and site within limit of disturbance.
7. Provide temporary stabilization for areas outside of areas to be paved within 48 hours after compaction and fine grading.
8. Install water main, sewer main, and storm drain and inlets.
9. Provide temporary stabilization for utilities outside paved areas.
10. Construct curb and gutter and pave roadway.
11. Install curb inlet sediment control protection.
12. Install landscaping and final stabilization.
13. Remove sediment control measures with approval of sediment control inspector.

LEGEND



Note: 1. All Sediment Control Devices are in place per GP-84-17.
 2. Place excavation to uphill side of trench to prevent runoff from entering utility trench.

NOTE: All erosion & sediment control devices shall conform to 1983 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION & SEDIMENT CONTROL

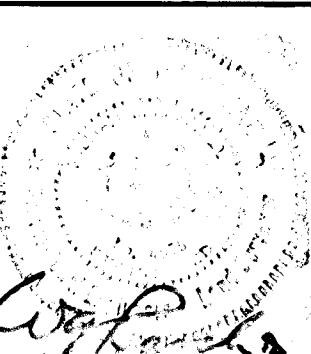
PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1023 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

Approved: Howard County Department of Public Works
William G. Rasch II
 Chief, Bureau of Engineering Date

Approved: Howard County Office of Planning and Zoning
James M. Adams 9-23-86
 Chief Div. of Land Development and Zoning Admin. Date

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
James M. Adams 9/23/86
 Patapsco Associates Ltd. Partnership
 James M. Adams, President 9/23/86

ENGINEER'S CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
William G. Rasch II 6/12/86
 William G. Rasch II Date



HOUSE LOCATION PLAN
 EROSION AND SEDIMENT CONTROL PLAN
PATAPSCO PARK ESTATES
 SECTION 3, AREA 3 & 4
 FIRST ELECT. DIST. HOWARD CO. MARYLAND
 TAX MAP 17 PARCEL 38
 DATE: SEPT. 15, 1986 SCALE: AS NOTED

SHEET 6 OF 6
 DES: A.T.R.
 DRW: J.E.F.
 CHK: A.T.R.
 JOB NO. 5405-60