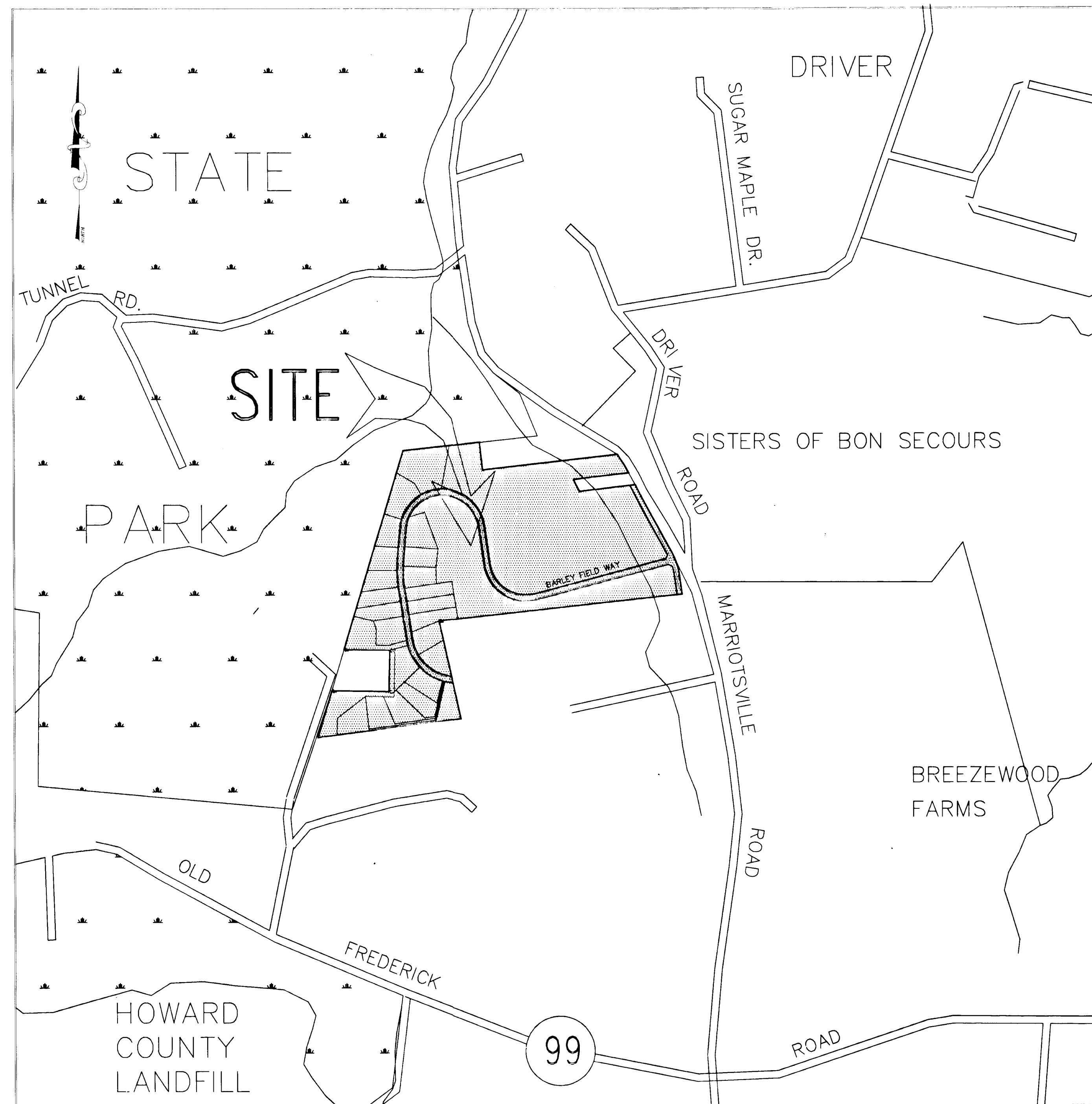


GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD AND SPECIFICATION OF THE HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORKS.
4. PROJECT BACKGROUND :
 - a. TAX MAP 10, PARCEL 27, 29, & 151
 - b. TOTAL AREA OF SUBDIVISION = 76.98 ACRES
 - c. NUMBER OF PROPOSED LOTS = 22 BUILDABLE, 3 OPEN SPACE, & 1 PRESERVATION PARCEL
 - d. SKETCH PLAN WAS APPROVED ON DEC. 21, 1994 UNDER S-95-05
 - e. PRELIMINARY PLAN WAS APPROVED ON 10-20-95 UNDER P-95-24.
5. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD). ALL STREETS AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
6. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY JOHN MELLEMA, SR. INC. ON JANUARY, 1995
7. HORIZONTAL AND VERTICAL DATUM ARE BASED ON MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY CONTROL STA. (NAD 83) 16E1 AND 0912.
8. LIGHT POLES AND FIXTURES SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROAD AND BRIDGES.
9. TWO (2) EXTENDED RETENTION PONDS ARE PROPOSED FOR WATER QUANTITY AND WATER QUALITY.
10. WETLANDS DELINEATION WAS PERFORMED BY EXPLORATION RESEARCH, INC. ON AUGUST, 1994.
11. GEOTECHNICAL REPORT WAS PREPARED BY INVESTIGATIVE TESTING & ENGINEERING ON MARCH, 1995 AND HERBST & ASSOCIATES ON SEPTEMBER, 1995.
12. EXISTING UTILITIES ARE BASED ON HOWARD COUNTY AS BUILT PLANS AND THE TOPOGRAPHIC SURVEY BY JOHN MELLEMA, INC.
13. THIS PLAN IS SUBJECT TO WP-95-28 APPROVED ON NOV. 11, 1994 WHICH WAIVED THE REQUIREMENT OF 16.116.(a)(1) & 16.(a)(2) PROHIBITING GRADING OR DISTURBANCE WITHIN 25 FT. OF A WETLAND OR WITHIN 75 FT. OF A PERENNIAL STREAM.
14. 95% COMPACTION IN FILL SHALL BE IN ACCORDANCE WITH AASHTO T-180 REQUIREMENT.
15. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL REQUIREMENT OF SECTION 16.1200 OF THE HOWARD COUNTY CC FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT SHOWN ON AN APPROVED ROAD DRAWING OR SITE DEVELOPMENT PL HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED FOREST CONSERVATION EASEMENT ARE ALLOWED.
16. DISTURBANCE OF WETLAND IS APPROVED UNDER PERMIT NUMBER 95-NI-0848.

INDEX	
1	COVER SHEET
2	PLAN & PROFILE - MARRIOTSVILLE ROAD
3-6	PLAN & PROFILE - BARLEY FIELD WAY
7	DRAINAGE AREA MAP
8	STORMWATER MANAGEMENT POND-1 DETAILS
9	STORMWATER MANAGEMENT POND-2 DETAILS
10-11	DRAINAGE PROFILES
12	GRADING & LANDSCAPE PLAN
13	SEDIMENT CONTROL PLAN & SOILS MAP
14	SEDIMENT CONTROL & POND NOTES



LOCATION PLAN

SCALE 1" = 600'

WOODFORD'S GRANT LOTS 1 thru 25 & PARCEL "A" ROAD CONSTRUCTION DRAWING HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Anna Swinmanje 2/13/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH /CH DATE

John Mellema, Sr. 2/9/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION /JTC DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Richard M. Daniels 2-6-96
CHIEF, BUREAU OF HIGHWAYS /RMB DATE



DES : MLL				
DRN : JER				
CHK : MLL				
DATE 09-24-95	BY	NO.	REVISION	DATE

Loria Engineering Inc.
CONSULTING ENGINEERS
8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.
TEL 410-465-0400 FAX 410-465-0489

DEVELOPER :

LAND DESIGN & DEVELOPMENT INC.
10805 HICKORY RIDGE ROAD
COLUMBIA, MD. 21045

OWNER :

THOMAS POWELL
12905 FALLS ROAD
COCKEYSVILLE, MD. 21030

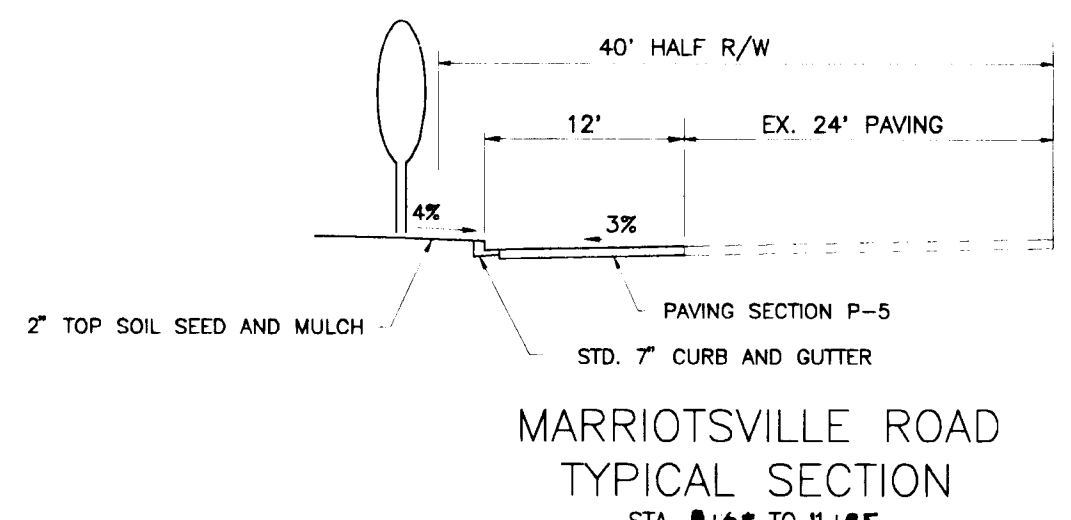
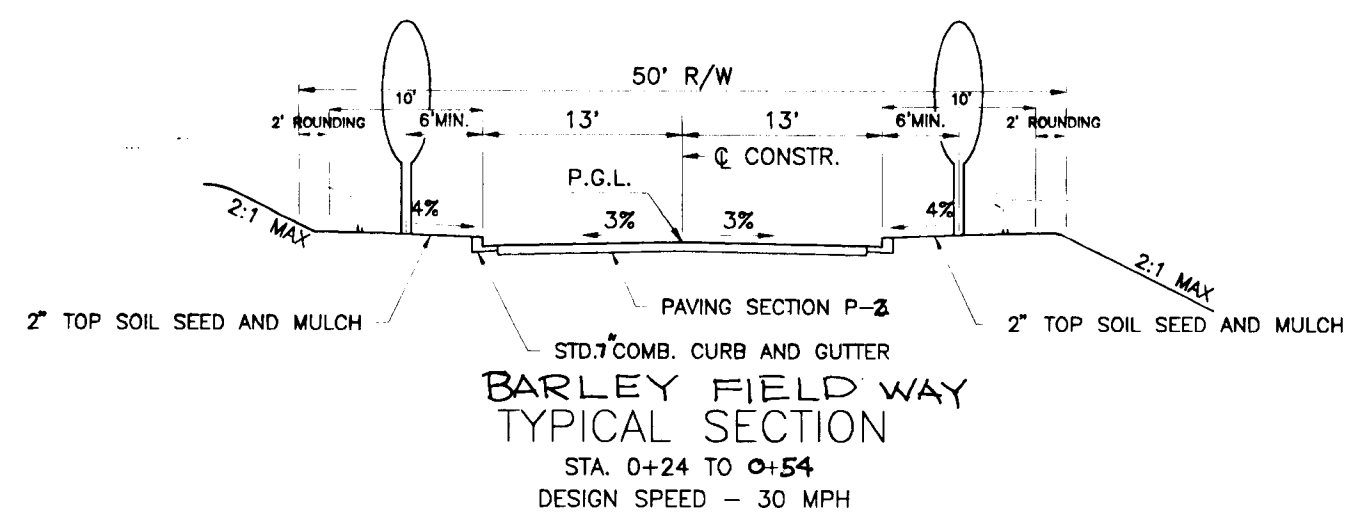
COVER SHEET
WOODFORD'S GRANT
LOTS 1 THRU 25
TAX MAP 10, PARCEL 27, 29 & 151
3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 14

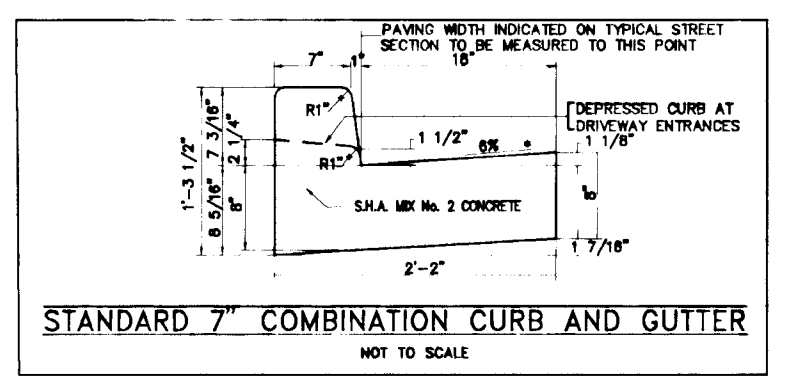
F-96-61

1734
C. COVER 30 Sep 11:00

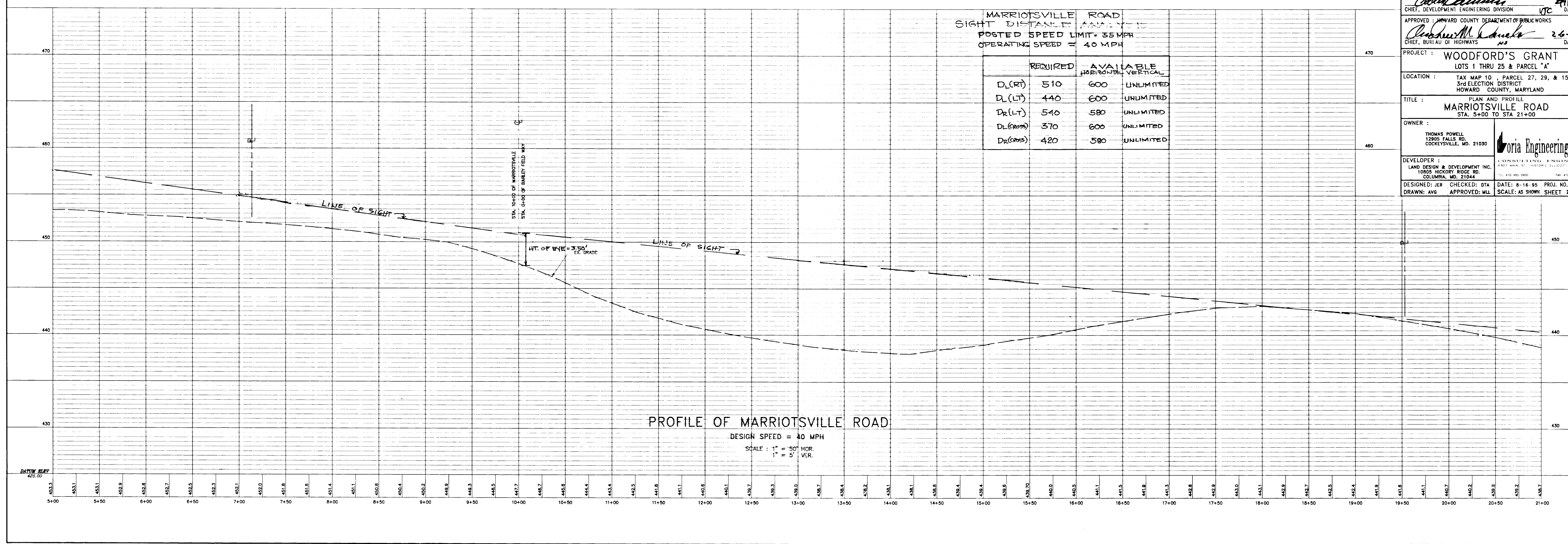
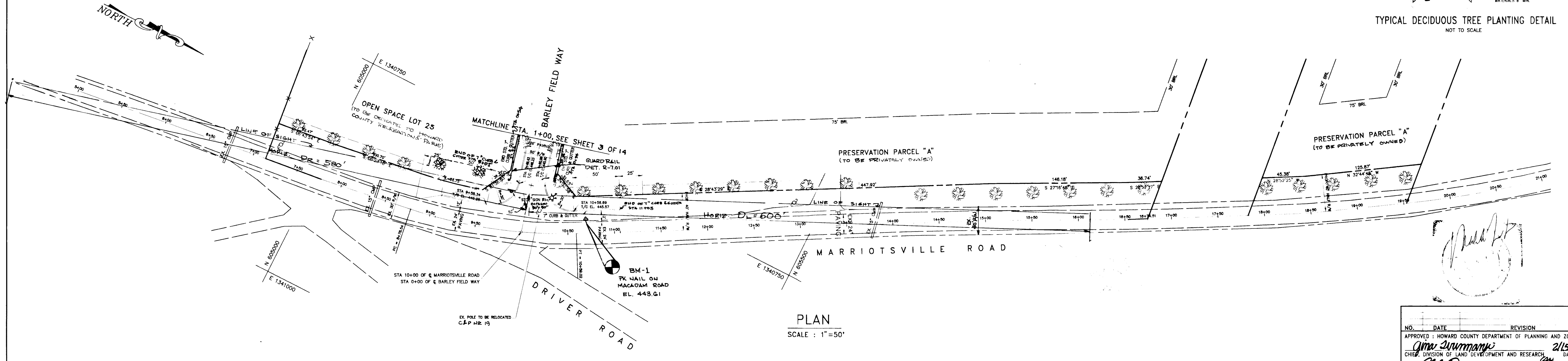
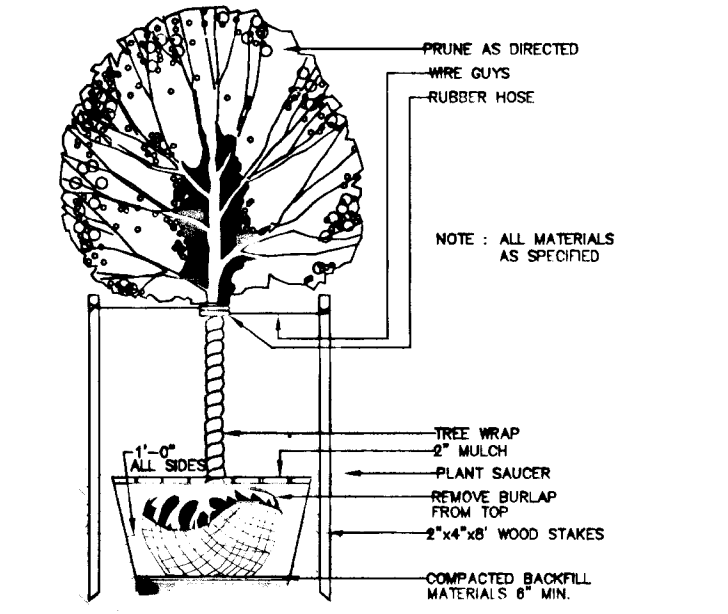


STREET TREE SCHEDULE					
SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
	MARRIOTSVILLE ROAD	ACER RUBRUM "OCTOBER GLORY"	"OCTOBER GLORY" RED MAPLE	30	2 1/2" CAL.

NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHT AND TREES.



STREET LIGHT LEGEND:
 150 WATTS HIGH PRESSURE SODIUM VAPOR PENDANT MOUNTED FIXTURE WITH CUT OFF OPTICS ON A BREAKAWAY TRANSFORMER BASE GALVANIZED STEEL POLE, LOCATED 24" FROM ROAD CL, TO BE INSTALLED BY HOWARD COUNTY.



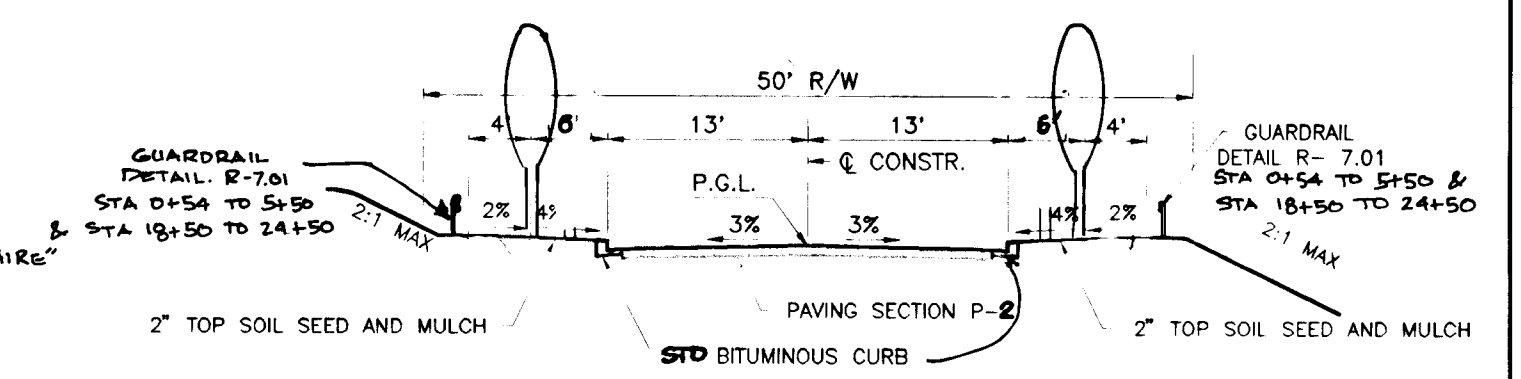
NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
<i>Gina Summank</i>		2/15/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		
<i>John</i>		2/15/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION		
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>Richard M. Canale</i>		2-6-96
CHIEF, BUREAU OF HIGHWAYS		
PROJECT: WOODFORD'S GRANT		
LOTS 1 THRU 25 & PARCEL "A"		
LOCATION: TAX MAP 10, PARCEL 27, 29, & 151		
3rd ELECTION DISTRICT		
HOWARD COUNTY, MARYLAND		
TITLE: PLAN AND PROFILE		
MARRIOTSVILLE ROAD		
STA. 5+00 TO STA 21+00		
OWNER:		
THOMAS POWELL		
12805 FALLS RD.		
COCKEYSVILLE, MD. 21030		
DEVELOPER:		
LAND DESIGN & DEVELOPMENT INC.		
10805 HICKORY RIDGE RD.		
COLUMBIA, MD. 21044		
DESIGNED: JER		
CHECKED: DTA		
DATE: 8-16-95		
PROJ. NO.:		
DRAWN: AVG		
APPROVED: MLL		
SCALE: AS SHOWN SHEET 2 OF 14		

1784

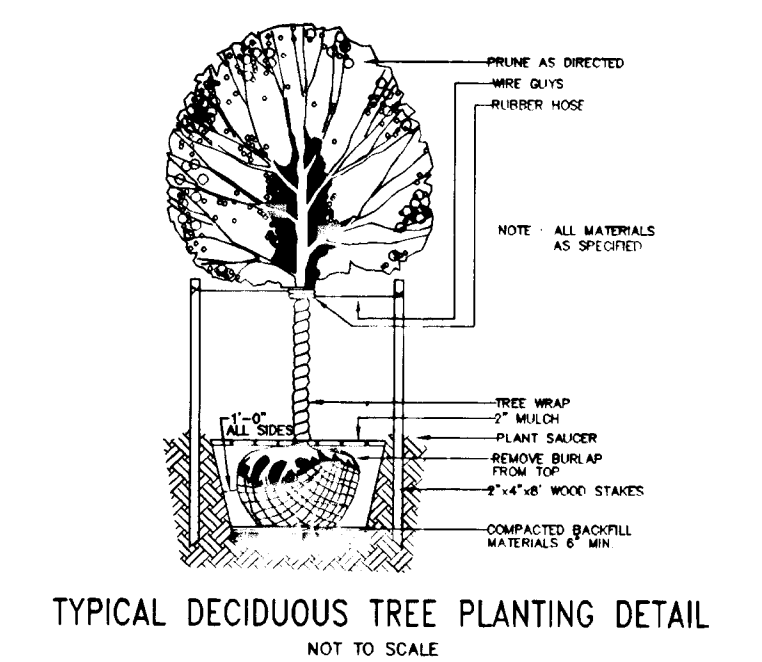
SMA DRAINAGE & UTILITY EASEMENT
 100 YR. SWSEL 426.46
 10 YR. SWSEL 425.84
 2 YR. SWSEL 424.57

PRESERVATION PARCEL "A"
 (TO BE PRIVATELY OWNED)

OPEN SPACE LOT 25
 (TO BE DEDICATED TO HOWARD COUNTY RECREATION & PARKS)



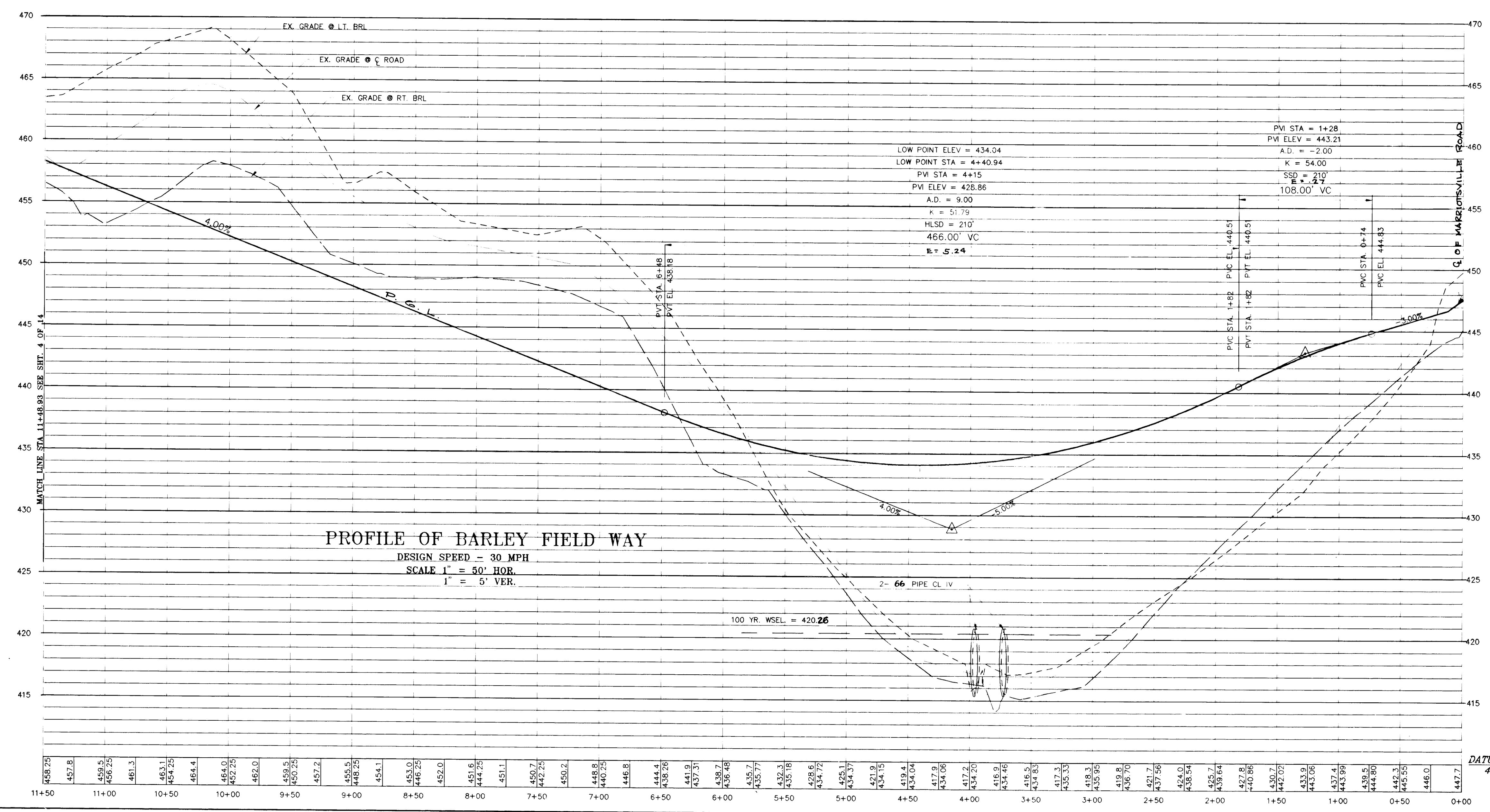
BARLEY FIELD WAY
 STA 0+04 TO 43+04.04
 DESIGN SPEED - 30 MPH



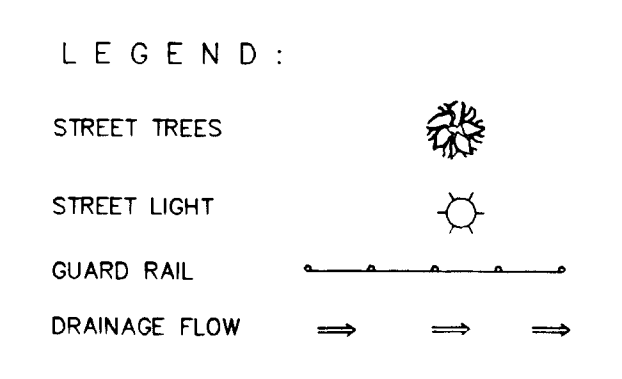
MATCH LINE STA 11+48.93 SEE SHEET 4 OF 14
 STA 11+48.93

BARLEY FIELD WAY

PLAN
 SCALE 1" = 50'



PROFILE OF BARLEY FIELD WAY
 DESIGN SPEED - 30 MPH
 SCALE 1" = 50' HOR.
 1" = 5' VER.



NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND TREES

STREET TREES SCHEDULE					
SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
(Tree symbol)	BARLEY FIELD WAY	ACER RUBRUM "OCTOBER GLORY"	"OCTOBER GLORY" RED MAPLE	52	2 1/2" CAL.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Aina Swaminani 2/15/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John J. ... 2/15/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. ... 2-6-96
 CHIEF, BUREAU OF HIGHWAYS DATE

NO.	DATE	REVISION	BY

Voria Engineering Inc.
 CONSULTING ENGINEERS
 8307 MAIN ST., HISTORIC ELICOTT CITY, MD.
 410-465-0400

PLAN & PROFILE
 BARLEY FIELD WAY
 STA. 0+00 TO 11+48.93

WOODFORD'S GRANT
 LOTS 1 - 25 & PARCEL "A"

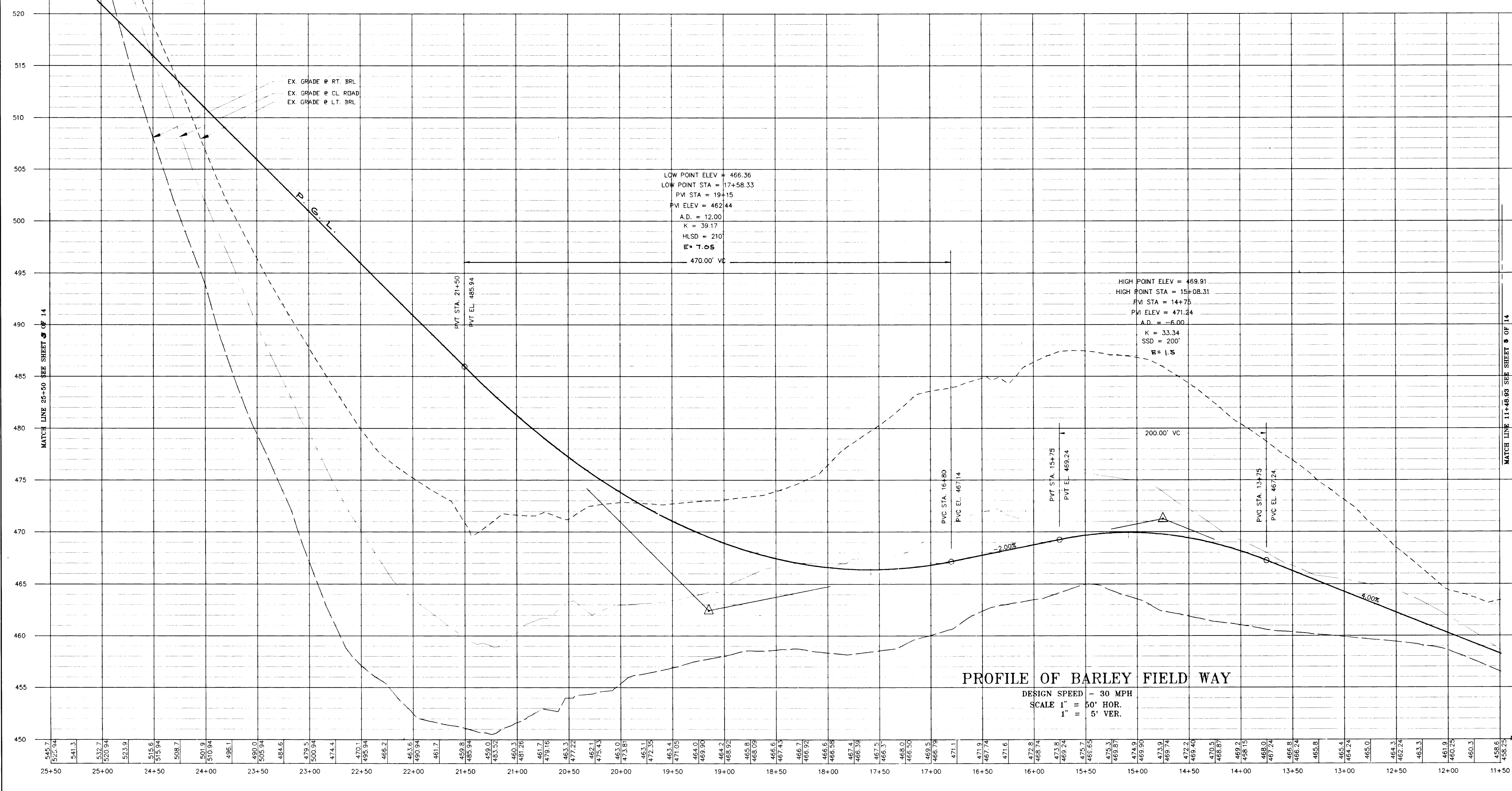
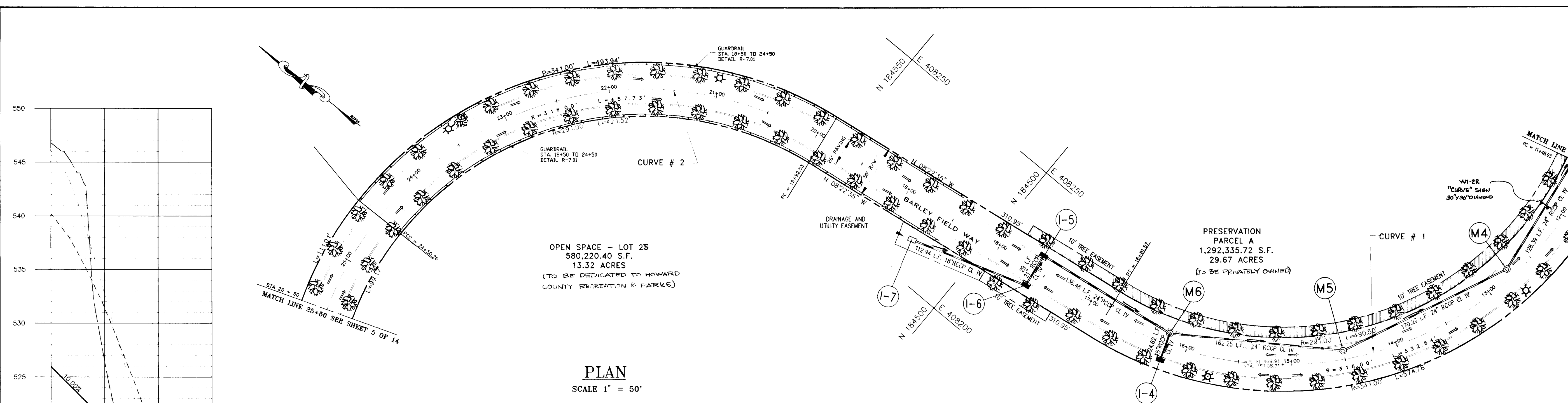
DATE: 9-21-95 SCALE: AS SHOWN SHEET 3 OF 14
 DESIGN BY: AVG DRAWN BY: JER CHECKED BY: MLL

1784
 C:\D:\WORK\1784\Fri 09 11:25:55 1995

F96'61

1734

C. LONG (SELL) APPR. DATE: 10/21/95



100 WATTS HIGH PRESSURE SODIUM VAPOR "TRADITIONAIRE"
LAMP POST FIXTURE ON 1 1/2" BLACK FIBERGLASS
POLE LOCATED 10' FROM THE ROAD CL.



Q CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
CURVE #1	316.00	532.64	354.52	96°34'34"
CURVE #2	316.00	457.73	279.54	82°59'37"

- LEGEND:**
- STREET TREES
 - STREET LIGHT
 - GUARD RAIL
 - DRAINAGE FLOW

STREET TREES SCHEDULE

SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
(Tree Symbol)	BARLEY FIELD WAY	ACER RUBRUM "OCTOBER GLORY"	"OCTOBER GLORY" RED MAPLE	70	2 1/2" CAL.

NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND TREES

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Anna Summons 2/15/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. Cannon 2/19/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Rankin 2-6-96
 CHIEF, BUREAU OF HIGHWAYS
 DATE

NO.	DATE	REVISION	BY

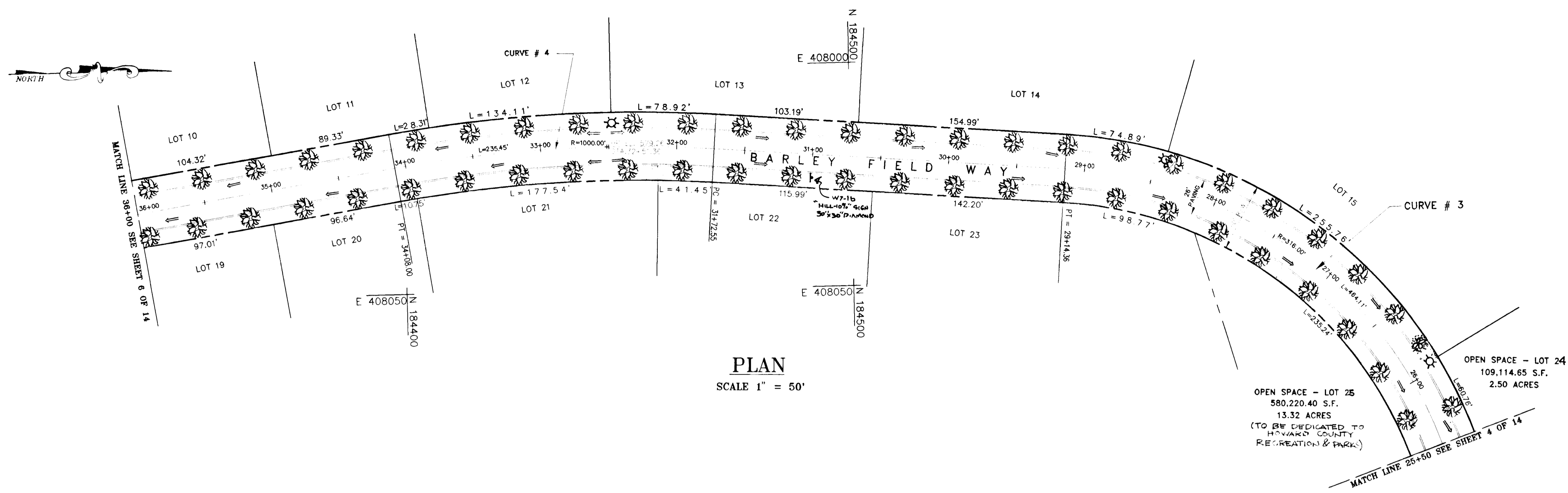
Toria Engineering Inc.
 CONSULTING ENGINEERS
 8307 MAIN ST., HISTORIC ELLIOTT CITY, MD.
 410-465-0400

PLAN & PROFILE
 BARLEY FIELD WAY
 STA. 11+48.93 TO 25+50

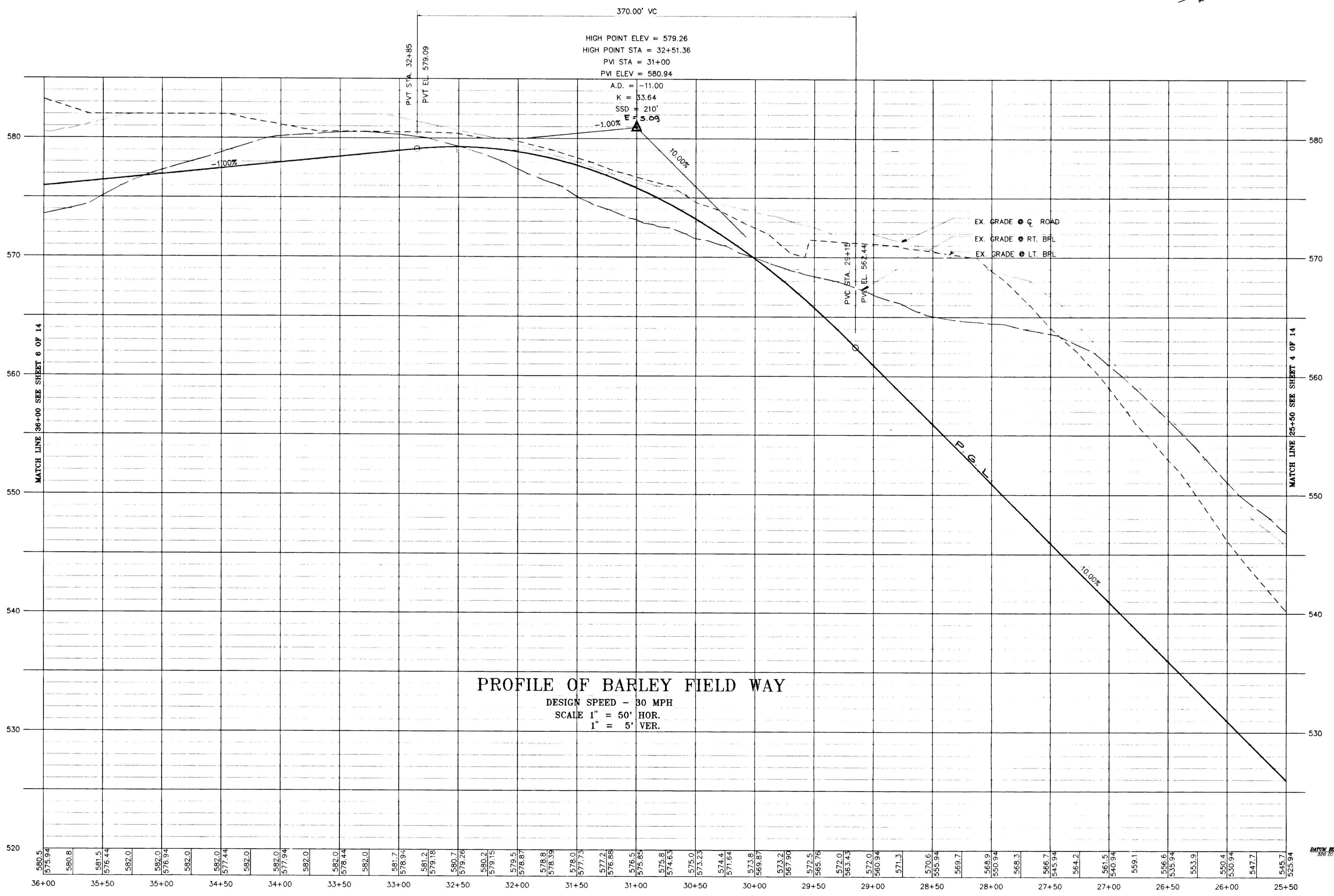
WOODFORD'S GRANT
 LOTS 1 THRU 25 & PARCEL A

SCALE: AS SHOWN DATE: 9-22-95 SHEET 4 OF 14
 DESIGN BY: AVG DRAWN BY: JER CHECKED BY: MLL

F-96/61



☉ - 100 WATTS HIGH PRESSURE SODIUM VAPOR "TRADITIONAL" LAMP POST FIXTURE ON 14" BLACK FIBERGLASS POLE LOCATED 16' FROM THE ROAD C.



Q CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
CURVE #3	316.00'	464.11'	285.28'	84°09'00"
CURVE #4	1000.00'	235.45'	118.27'	13°29'26"

STREET TREES SCHEDULE

SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
	BARLEY FIELD WAY	ACER RUBRUM	"OCTOBER GLORY" RED MAPLE	53	2 1/2" CAL.

NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND TREES

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Linnam 2/15/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 6077 DATE

Mark Dammann 2/16/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION JTC DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert M. Smith 2-16-96
CHIEF, BUREAU OF HIGHWAYS NS DATE

NO.	DATE	REVISION	BY



Virginia Engineering Inc.
CONSULTING ENGINEERS
8,307 MAIN ST., HISTORIC ELLCOTT CT., V.D.
410-465-3400

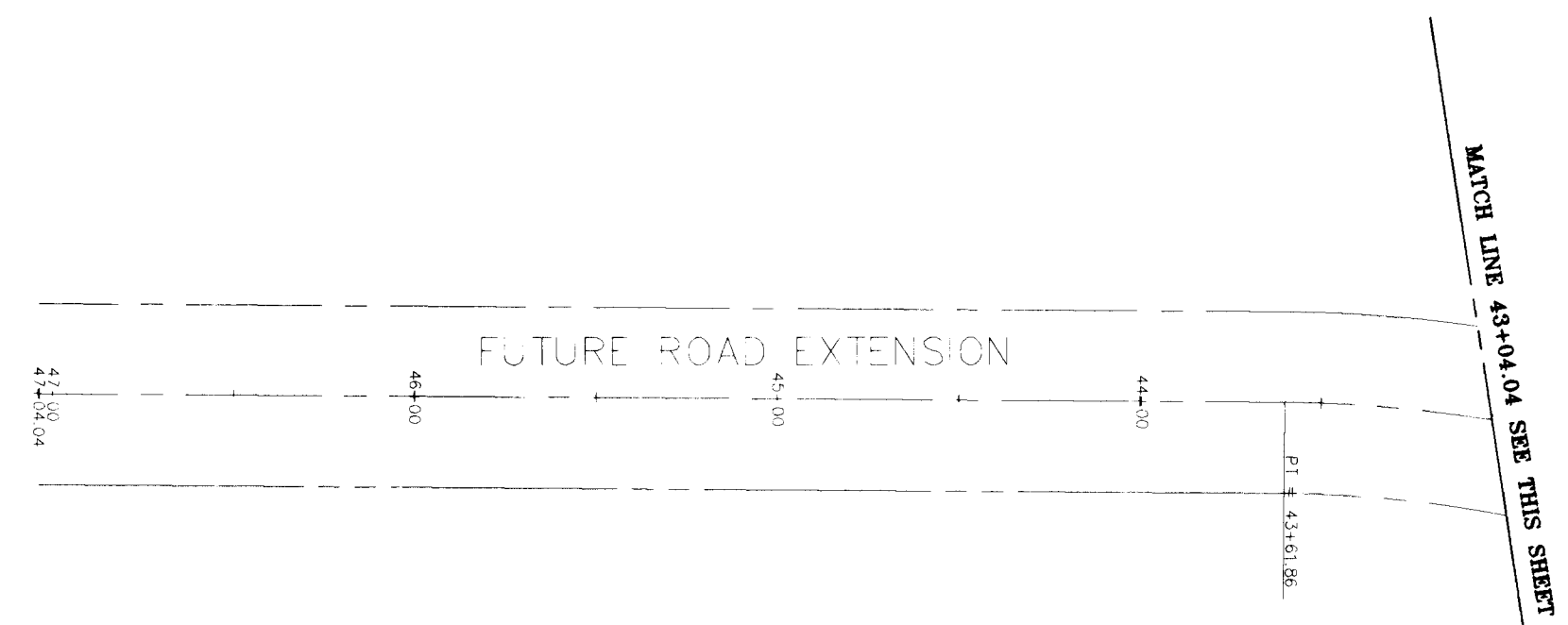
PLAN & PROFILE
BARLEY FIELD WAY
STA. 25+50 TO 36+00

WOODFORD'S GRANT
LOTS 1 THRU 25 & PARCEL A

SCALE: AS SHOWN	DATE: 09-24-95	SHEET 5 OF 14
DESIGN BY: AVG	DRAWN BY: JER	CHECKED BY: MLL

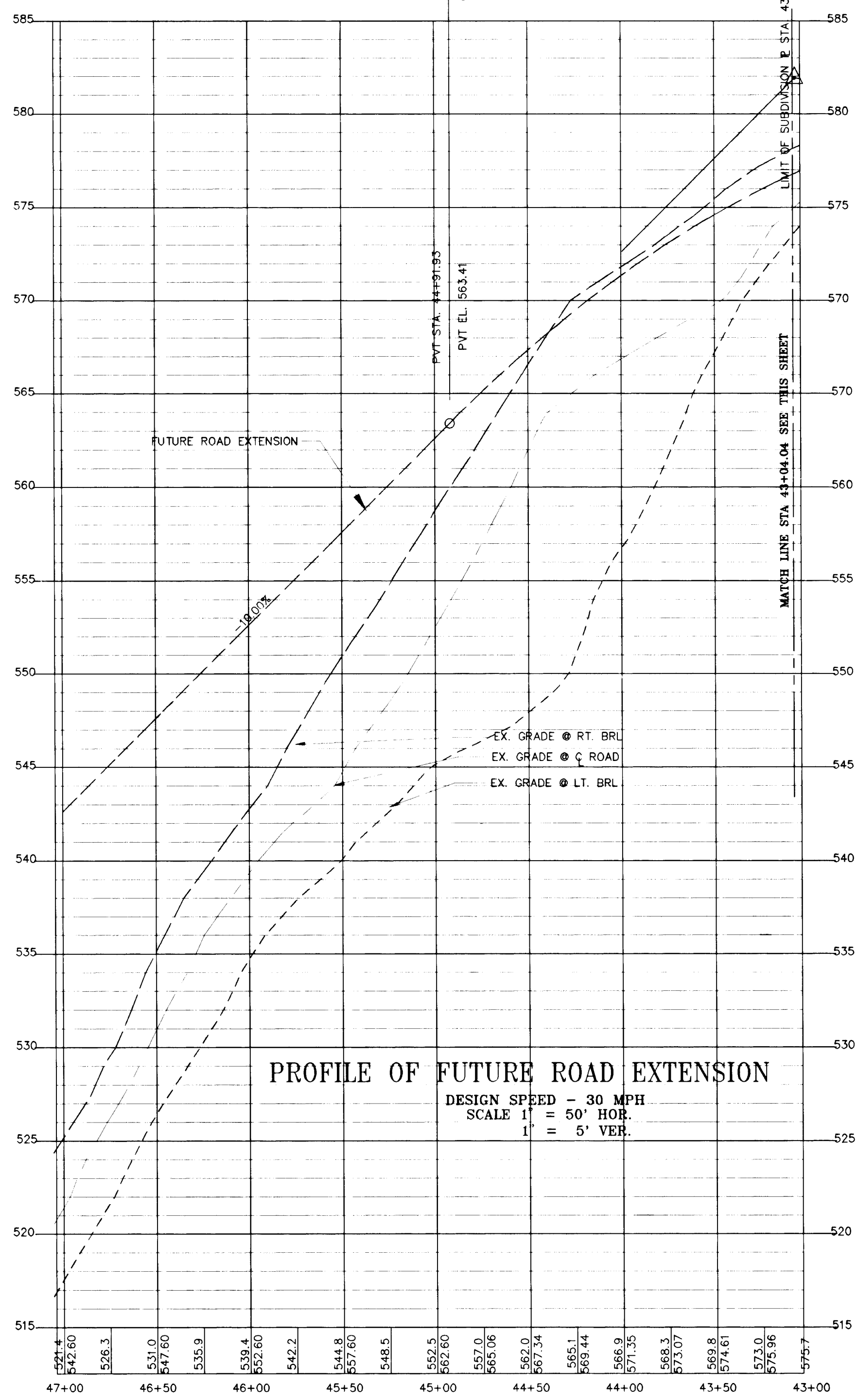
F96.61

17884
DUNN, KELLY S. ENGINEER, REG. 29, SEP 29, 1995

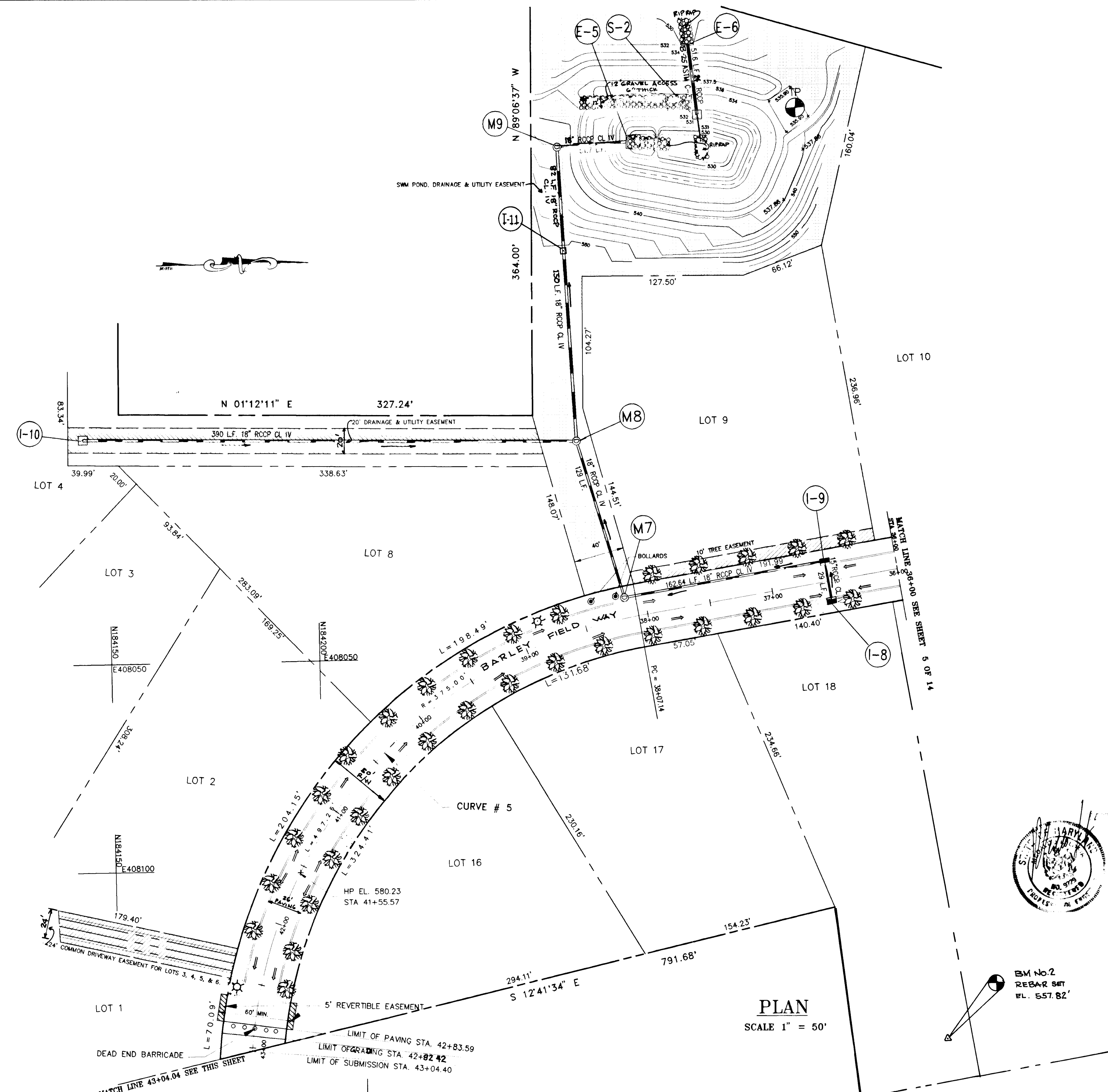


PLAN
SCALE 1" = 50'

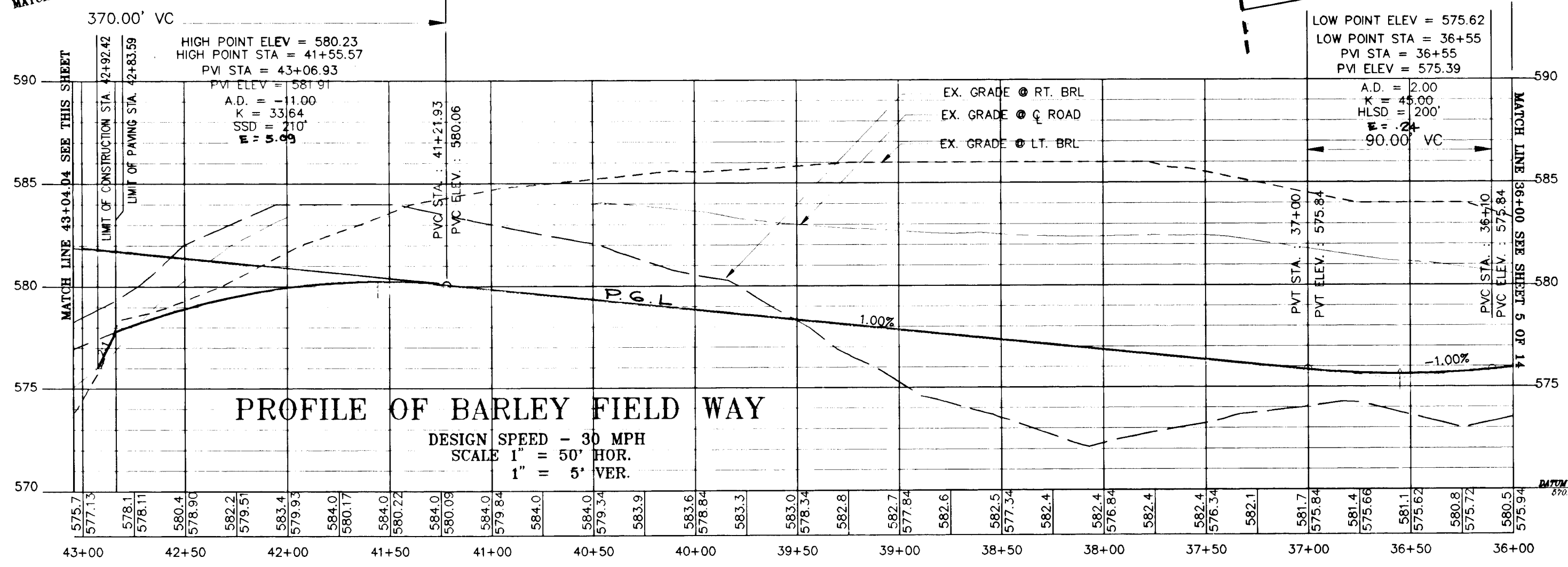
HIGH POINT ELEV = 580.23
HIGH POINT STA = 41+55.57
PVI STA = 43+06.93
PVI ELEV = 581.91
A.D. = -11.00
K = 33.64
SSD = 210'
E = 5.0%



PROFILE OF FUTURE ROAD EXTENSION
DESIGN SPEED - 30 MPH
SCALE 1" = 50' HOR.
1" = 5' VER.



PLAN
SCALE 1" = 50'



PROFILE OF BARLEY FIELD WAY
DESIGN SPEED - 30 MPH
SCALE 1" = 50' HOR.
1" = 5' VER.

Q CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
CURVE #5	375.00'	497.26'	292.85'	75°58'31"

☉ - 100 WATTS HIGH PRESSURE SODIUM VAPOR "TRADITIONALE" LAMP POST FIXTURE ON 14' BLACK FIBERGLASS POLE LOCATED 16' FROM THE ROAD CL.

STREET TREES SCHEDULE					
SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
☼	BARLEY FIELD WAY	ACER RUBRUM	"OCTOBER GLORY" RED MAPLE	32	2 1/2" CAL.

NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND TREES

- LEGEND :**
- STREET TREES
 - STREET LIGHT
 - DRAINAGE FLOW

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Anita Summery 2/15/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Mark Damm 2/17/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Danek 2-6-96
CHIEF, BUREAU OF HIGHWAYS DATE

NO.	DATE	REVISION	BY

Toria Engineering Inc.
CONSULTING ENGINEERS
8307 MAIN ST., HISTORIC ELL CITY, MD.
410-465-0400

PLAN & PROFILE
BARLEY FIELD WAY
STA.36+00 TO 47+04.04
WOODFORD'S GRANT
LOTS 1 THRU 25 & PARCEL A

SCALE: AS SHOWN	DATE: 9-24-95	SHEET 6 OF 14
DESIGN BY: AVG	DRAWN BY: JER	CHECKED BY: MLL

1734
C. VINO VORRELL - PLUMBER - Sun 07-2-1995

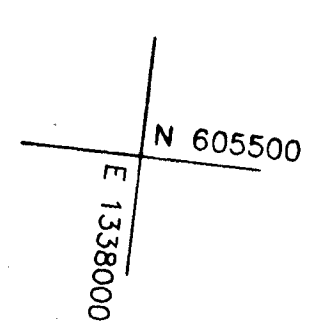
SEE MATCH LINE A-A

OPEN SPACE - LOT 24
109,114.65 S.F.
2.50 ACRES

OPEN SPACE - LOT 25
580,220.40 S.F.
13.32 ACRES

PRESERVATION
PARCEL A
1,294,335.72 S.F.
29.67 ACRES

MATCH LINE A-A



- LEGEND :
- BAD HOLES
 - PERC HOLES
 - EX. GRADE
 - PROP. GRADE
 - WETLAND
 - 25% SLOPE
 - 100 YR FLOODPLAIN
 - SEPTIC
 - EX. TREE LINE
 - PROP. TREE
 - WELLS
 - PROP. STREET LIGHT
 - GUARD RAIL

PLAN
SCALE : 1" = 100'

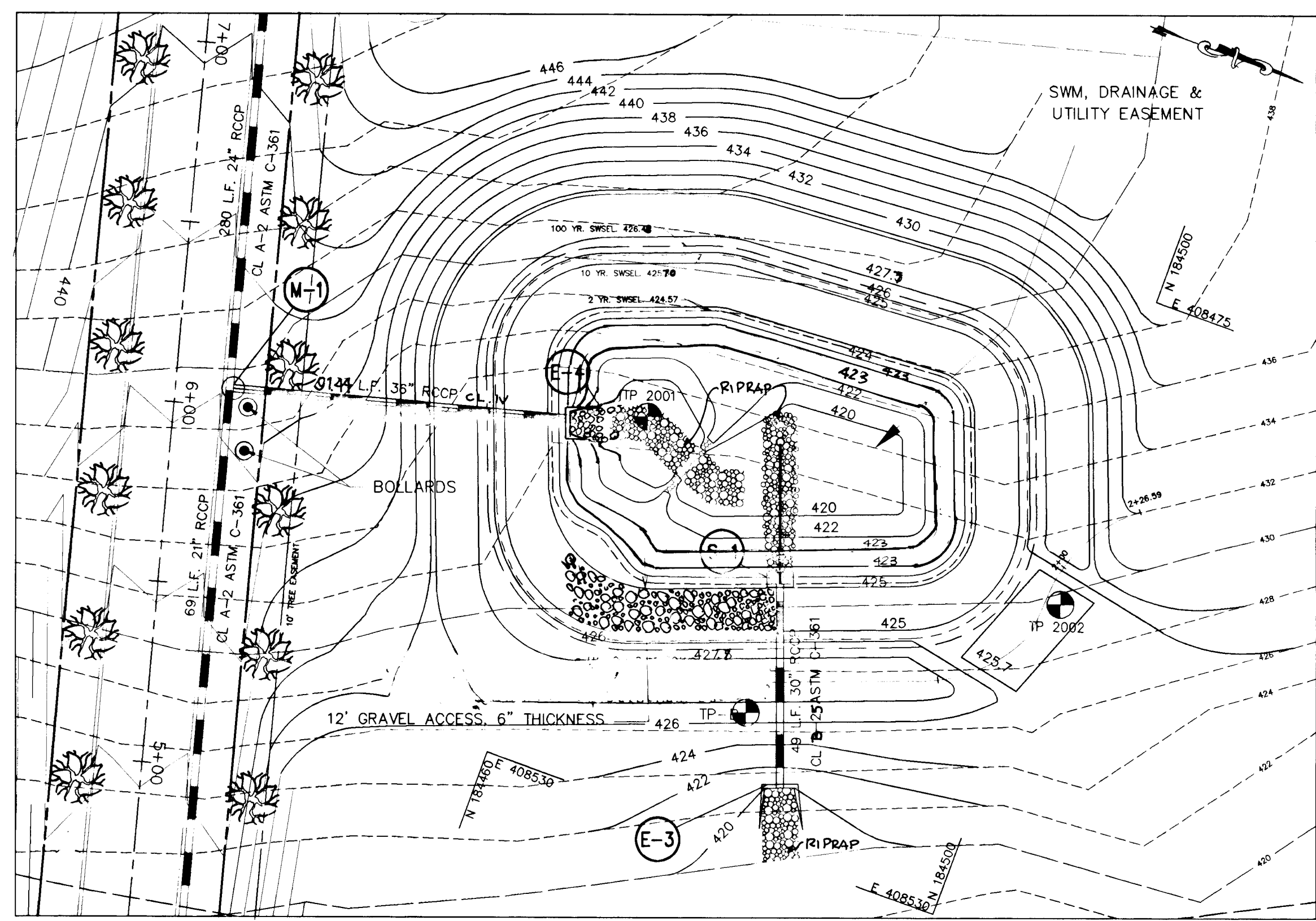
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Dina Johnny
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/15/96 DATE
Michael D. ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 2/19/96 DATE
 APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William M. ...
 CHIEF, BUREAU OF HIGHWAYS 2-6-96 DATE

NO. DATE REVISION
 PROJECT : WOODFORD'S GRANT
 LOTS 1-25 & PRESERVATION PARCEL A
 LOCATION : TAX MAP 10 , PARCEL 27, 29, & 151
 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE : DRAINAGE AREA MAP
 OWNER : THOMAS POWELL
 12905 FALLS ROAD
 COCKEYSVILLE, MD. 21030
 DEVELOPER : LAND DESIGN & DEVELOPMENT INC.
 10805 HICKORY RIDGE RD.
 COLUMBIA, MD. 21044
 DESIGN: AVG CHECKED: MLL DATE: 9-21-95 PROJ. NO.:
 DRAWN: AVG APPROVED: MLL SCALE: 1"=100' SHEET 7 OF 14



1734

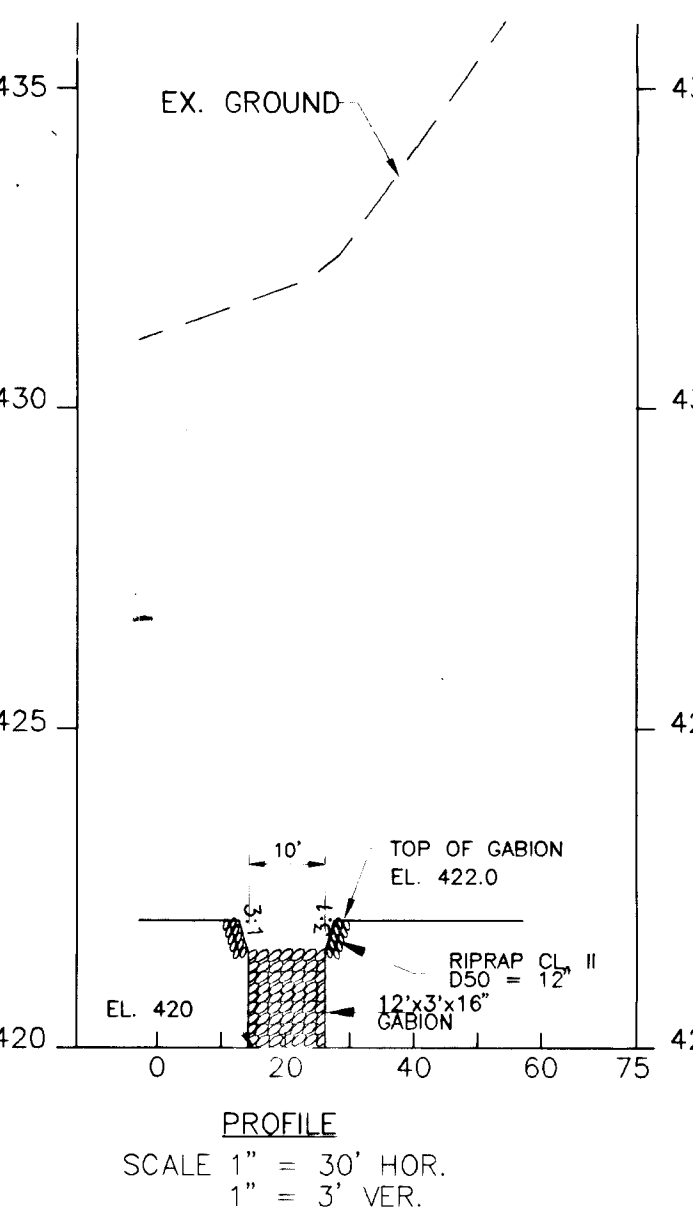


STORMWATER MANAGEMENT POND NO. 1 ASTM C-361 (PUBLIC)

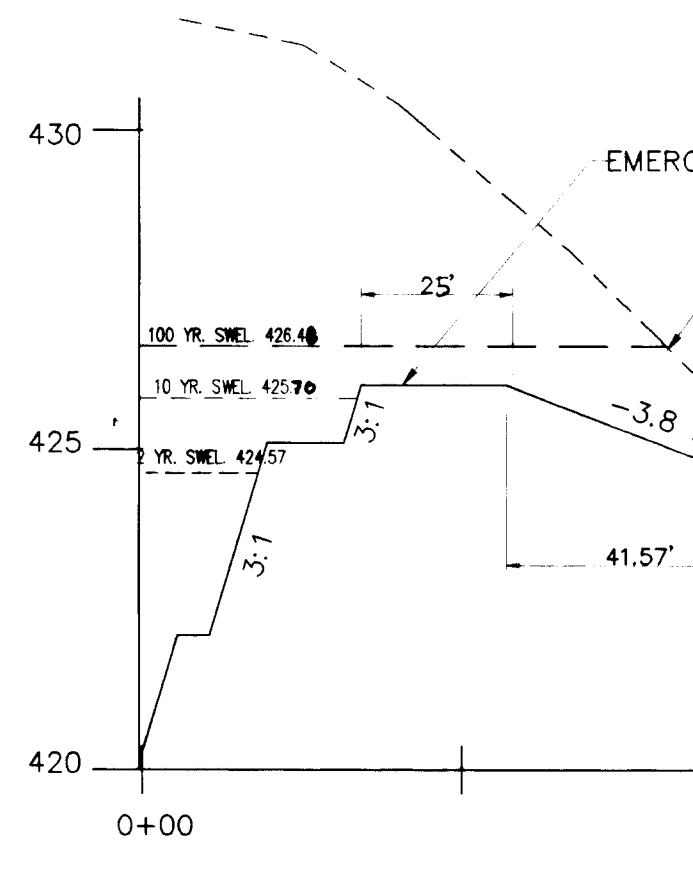
(HAZARD CLASS "A")

SCALE 1" = 30'

- MAINTENANCE REQUIREMENTS:**
- a. Removal of silt when accumulation exceeds six (6) inches in forebay.
 - b. Removal of accumulated paper, trash and debris as necessary.
 - c. Vegetation growing on the embankment top and faces of the forebay or basin is not allowed to exceed 18 inches in height at any time.
 - d. Annual inspection and repair of the structure.

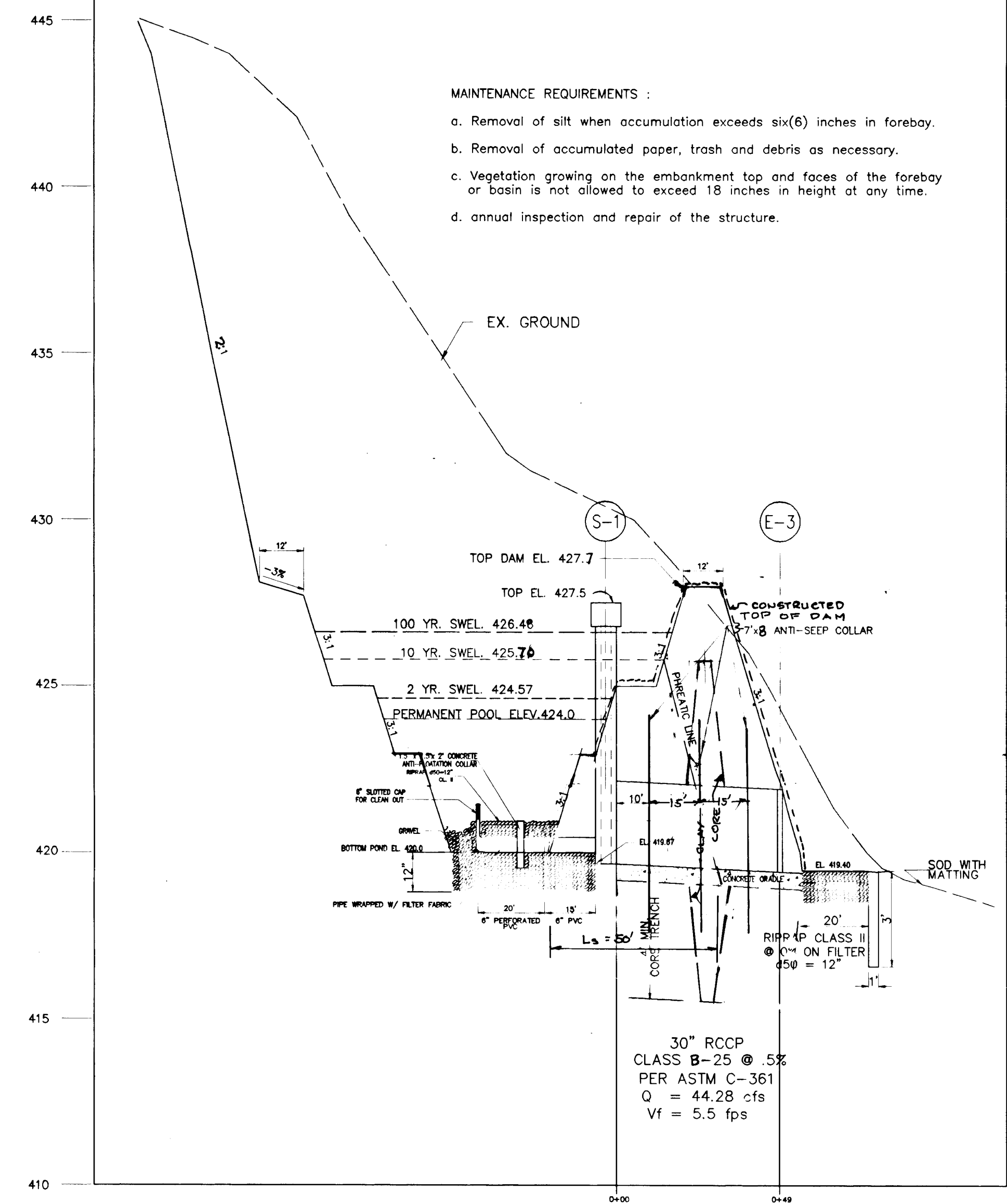


GABION FOREBAY SPILLWAY DETAIL



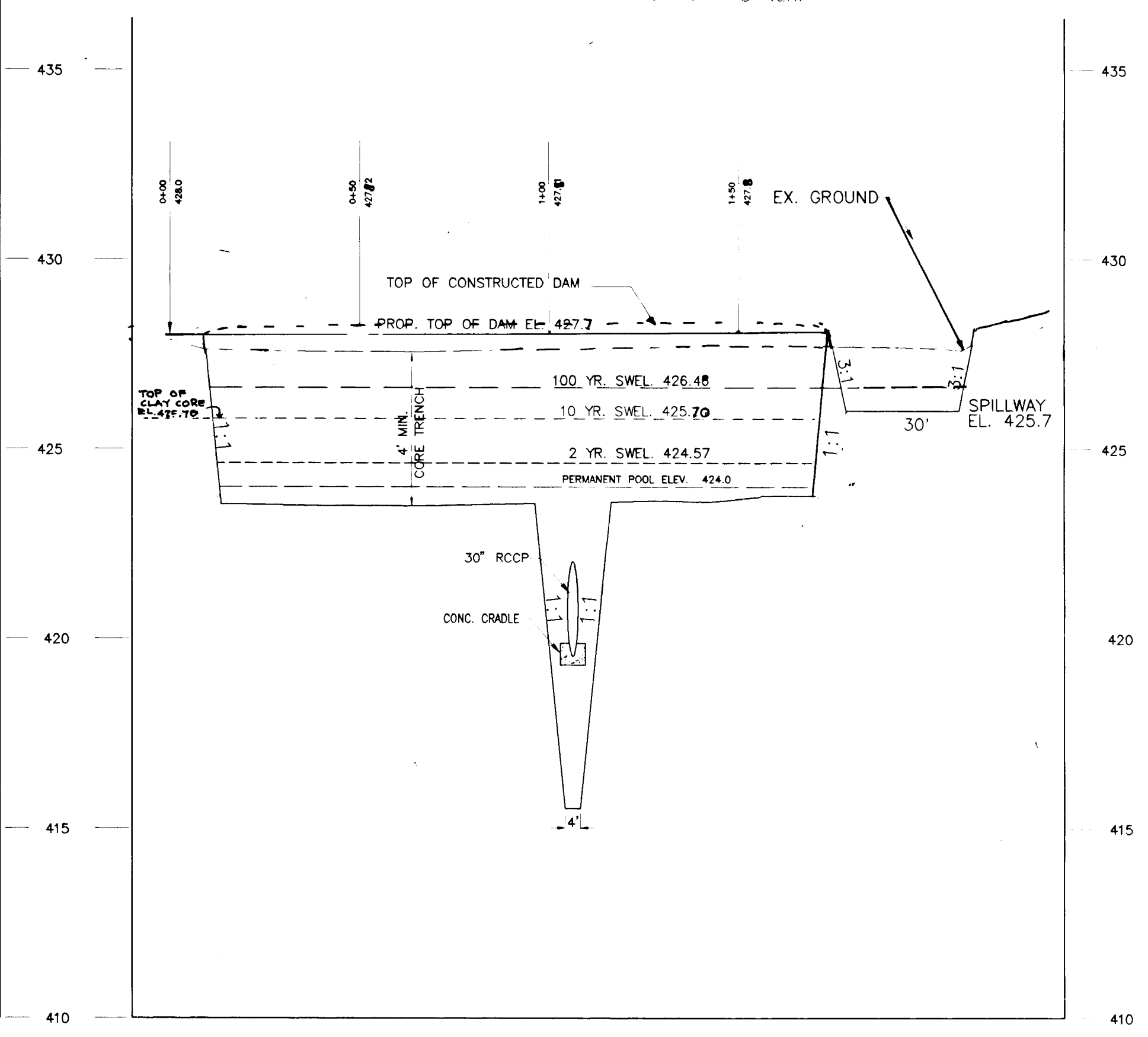
PROFILE THRU EMERGENCY SPILLWAY

SCALE 1" = 30' HOR.
1" = 3' VER.



PROFILE THRU STRUCTURE

SCALE 1" = 30' HOR.
1" = 3' VER.



PROFILE OF DAM

SCALE 1" = 30' HOR.
1" = 3' VER.

OPERATION, MAINTENANCE AND INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards And Specifications For Ponds" (MD-378). The pond owner(s) and any heirs, successors, or assignees shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

SUMMARY TABLE

STORM FREQUENCY	ALLOWABLE RELEASE, cfs	INFLOWS	
2 YR.	9.55 cfs	12.59 cfs	
10 YR.	45.52 cfs	51.25 cfs	
100 YR.	N/A	105.89 cfs	

3. POND STORM	ACTUAL DISCHARGE	ELEVATION	STORAGE
2 YR.	9.20 cfs	424.57	.11 ACRE-FT
10 YR.	42.02 cfs	425.70	.38 ACRE-FT
100 YR.	100.19 cfs	426.48	.68 ACRE-FT

SOIL BORING PROFILES

Color, Moisture, Density, Plasticity, Size, Proportion	SAMPLE DEPTH	SAMPLE NO.	RECORDING
Topsoil	0.0		
Dark brown sand, trace rhyolite	0.25		
Light tan fine sand, USA LOMMY SAND	2.0		
Light tan very fine sand, USA SANDY LOAM	8.0		
Yellowish fine sand, USA LOMMY SAND	8.0		
	10.0		

Datum: 426 Hammer Wt. N.A. Hole Diameter N.A. Job # 95234MD
Surf. Elev. 426 Hammer Drop N.A. Rock Core Dia. N.A. Inspector C. S. Bokshi
Date Started 3-1-95 Pipe Size N.A. Boring Method N.A. Date Completed 3-1-95

TP-2001

Color, Moisture, Density, Plasticity, Size, Proportion	SAMPLE DEPTH	SAMPLE NO.	RECORDING
Topsoil	0.0		
Brown moist clay & silt and coarse to the very fine rock fragments and mica	8.5		
USC ML	8.5		
Brown moist coarse to fine sand and silt	11.5		
USC SM	11.5		
Gray damp rock fragments	13.8		
USC GP	13.8		
	15.0		

Datum: 433 Hammer Wt. N.A. Hole Diameter N.A. Job # 95234MD
Surf. Elev. 433 Hammer Drop N.A. Rock Core Dia. N.A. Inspector Rene L. Herbst
Date Started 9-20-95 Pipe Size N.A. Boring Method N.A. Date Completed 9-21-95

TP-2002

Color, Moisture, Density, Plasticity, Size, Proportion	SAMPLE DEPTH	SAMPLE NO.	RECORDING
Topsoil	0.0		
Brown moist coarse to fine sand and silt	4.8		
USC SM	4.8		
Top moist coarse to fine sand & silt	6.2		
USC SM	6.2		
Gray damp rock fragments	6.3		
USC GP	6.3		
	10.0		

Datum: 430 Hammer Wt. N.A. Hole Diameter N.A. Job # 95234MD
Surf. Elev. 430 Hammer Drop N.A. Rock Core Dia. N.A. Inspector R. L. Herbst
Date Started 3-1-95 Pipe Size N.A. Boring Method N.A. Date Completed 9-21-95

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Small Pond Construction, Soil Erosion and Sediment Control.

US Natural Resources Conservation Service Date _____

These plans for Small Pond Construction, Soil Erosion and Sediment Control meet the requirements of the Howard County Soil Conservation District.

Howard Soil Conservation District Date _____

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/we certify that all development and/or construction will be done according to these plans, and that any responsible involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Anna Summy 2/15/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Robert Danner 2/17/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Richard M. Daniels 2-6-96
CHIEF, BUREAU OF HIGHWAYS DATE

PROJECT: WOODFORD'S GRANT
LOTS 1 THRU 25 & PARCEL "A"

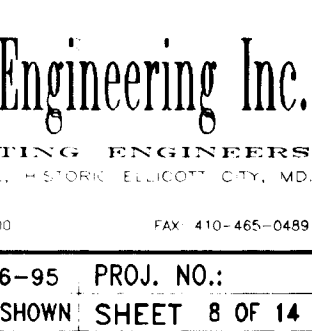
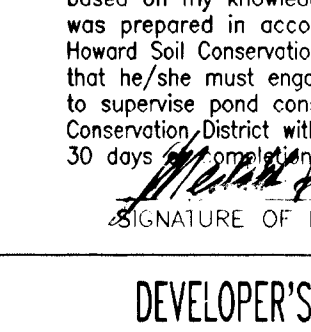
LOCATION: TAX MAP 10, PARCEL 27, 29, & 151
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: PLAN & DETAILS
STORMWATER MANAGEMENT POND No. 1

OWNER: THOMAS POWELL
12905 FALLS RD.
COCKEYSVILLE, MD. 21030

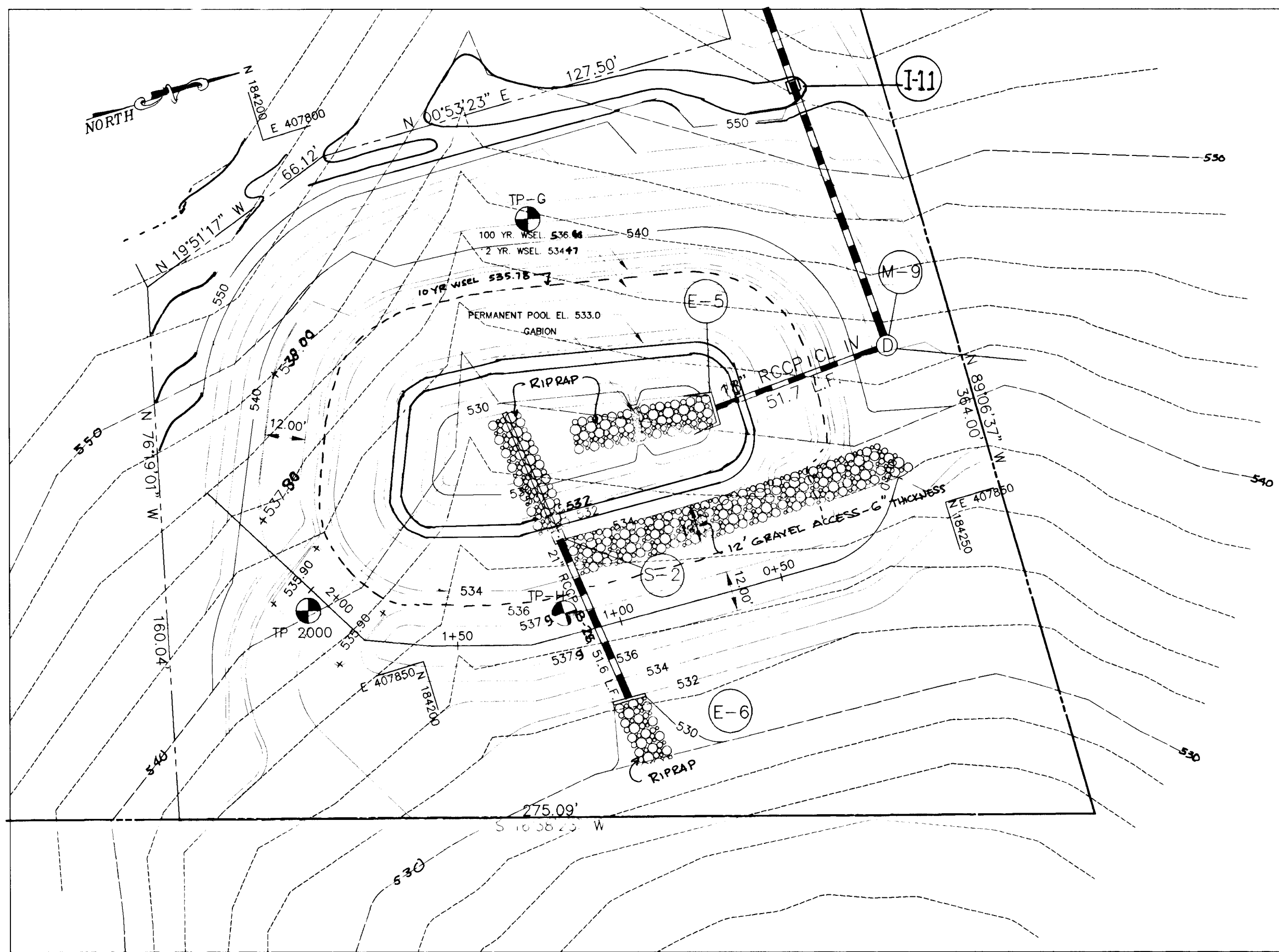
DEVELOPER: LAND DESIGN & DEVELOPMENT INC.
10805 HICKORY RIDGE RD.
COLUMBIA, MD. 21044

DESIGN: AVG DRAWN: JER
CHECKED: MLL APPROVED: MLL
DATE: 9-16-95 SCALE: AS SHOWN SHEET 8 OF 14



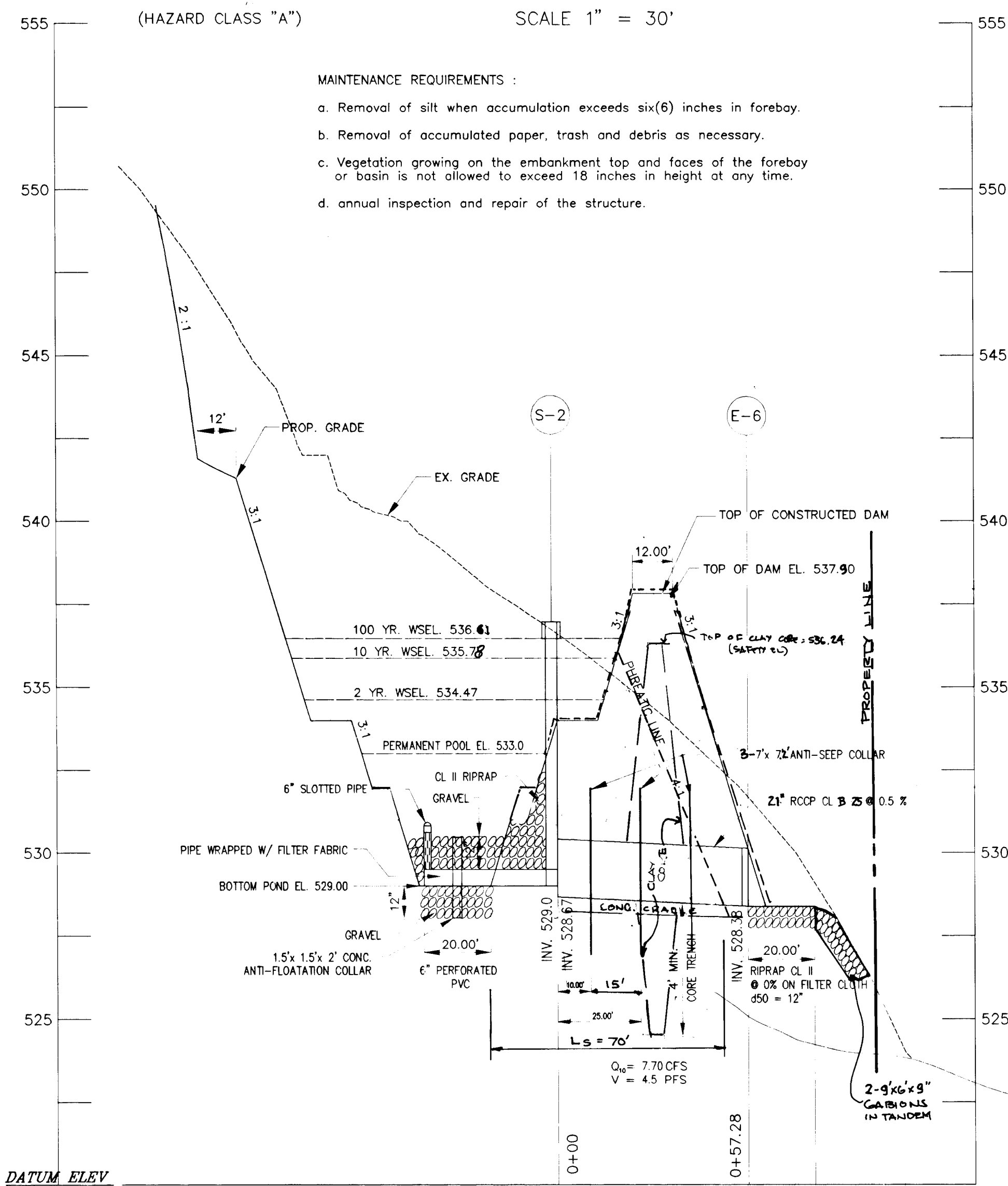
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F96-61



STORMWATER MANAGEMENT POND NO.2 ASTM C-361 (PUBLIC)

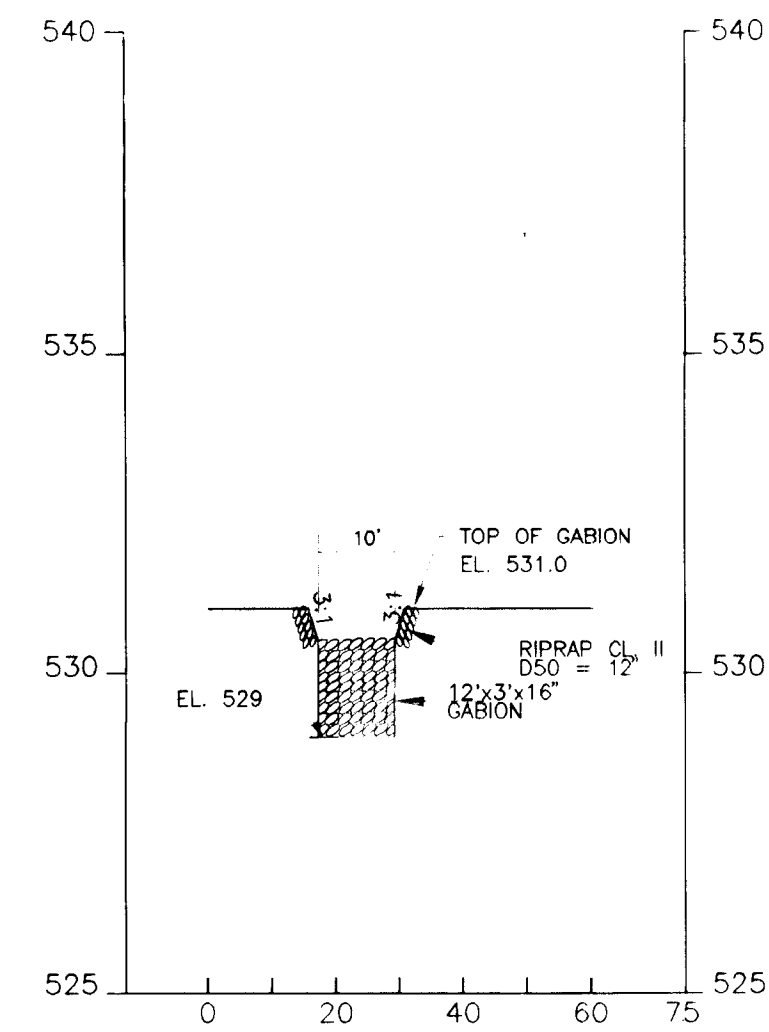
(HAZARD CLASS "A") SCALE 1" = 30'



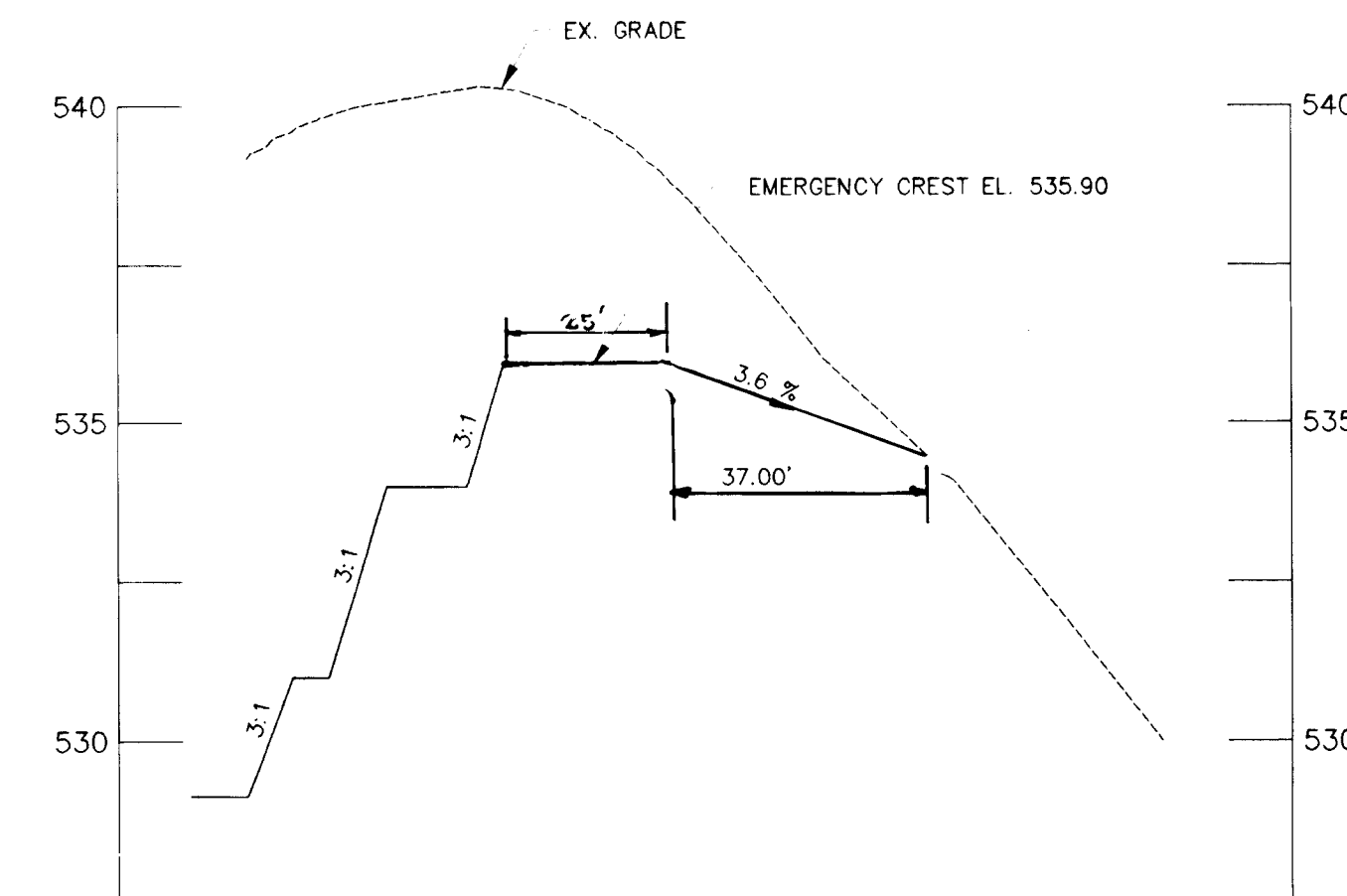
MAINTENANCE REQUIREMENTS :

- a. Removal of silt when accumulation exceeds six(6) inches in forebay.
- b. Removal of accumulated paper, trash and debris as necessary.
- c. Vegetation growing on the embankment top and faces of the forebay or basin is not allowed to exceed 18 inches in height at any time.
- d. annual inspection and repair of the structure.

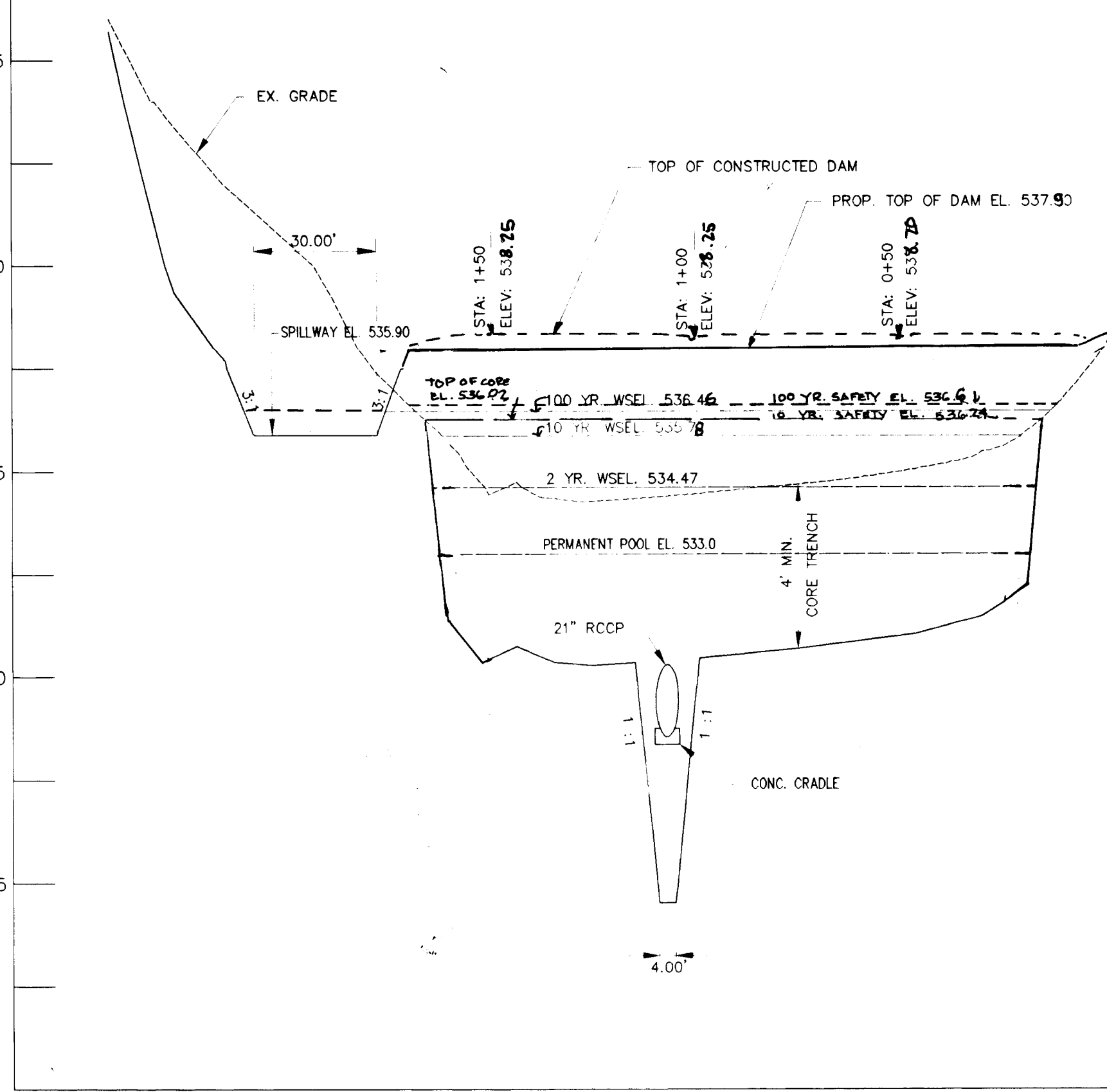
PROFILE THRU STRUCTURE
SCALE : 1" = 30' HOR.
1" = 3' VER.



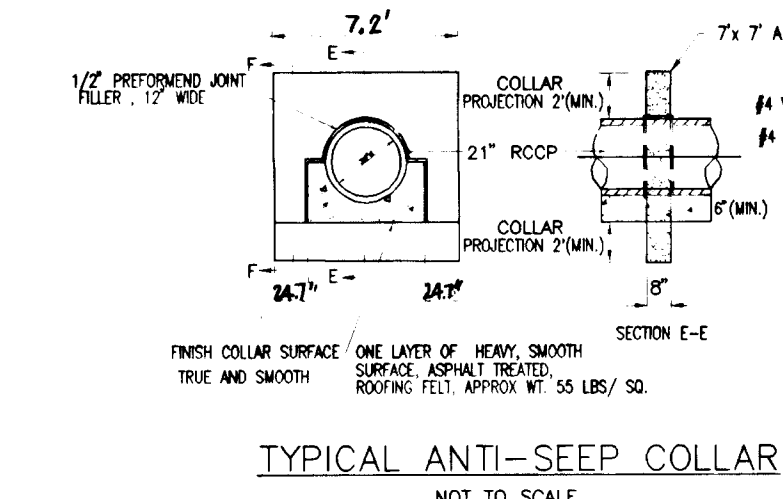
PROFILE
SCALE 1" = 30' HOR.
1" = 3' VER.
GABION FOREBAY SPILLWAY DETAIL



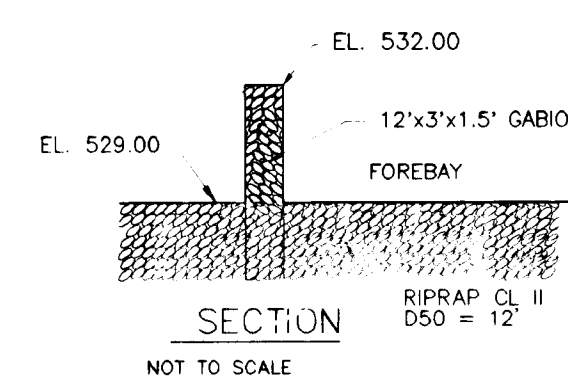
PROFILE THRU EMERGENCY SPILLWAY
SCALE 1" = 30' HOR.
1" = 3' VER.



PROFILE OF DAM
SCALE : 1" = 30' HOR.
1" = 3' VER.

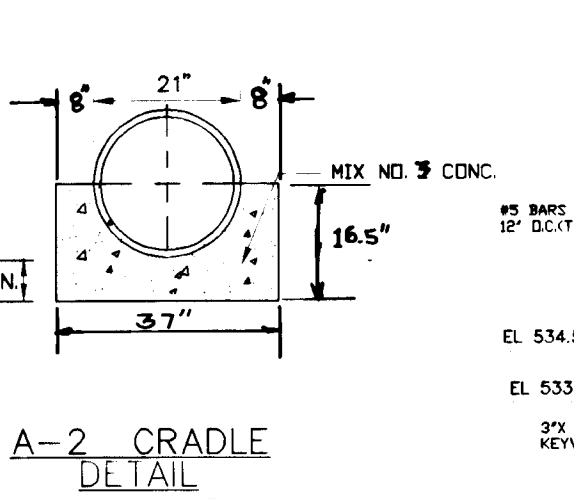


TYPICAL ANTI-SEEP COLLAR
NOT TO SCALE

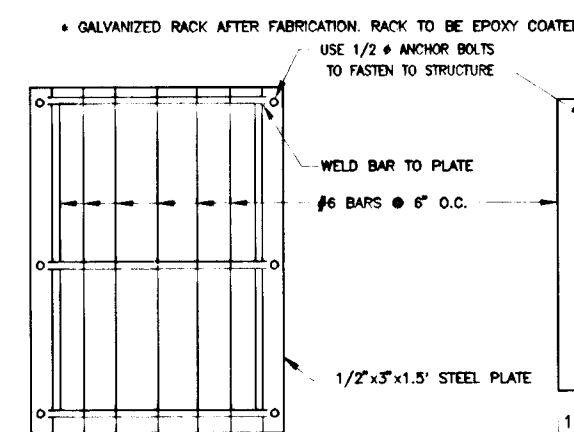


SECTION
NOT TO SCALE

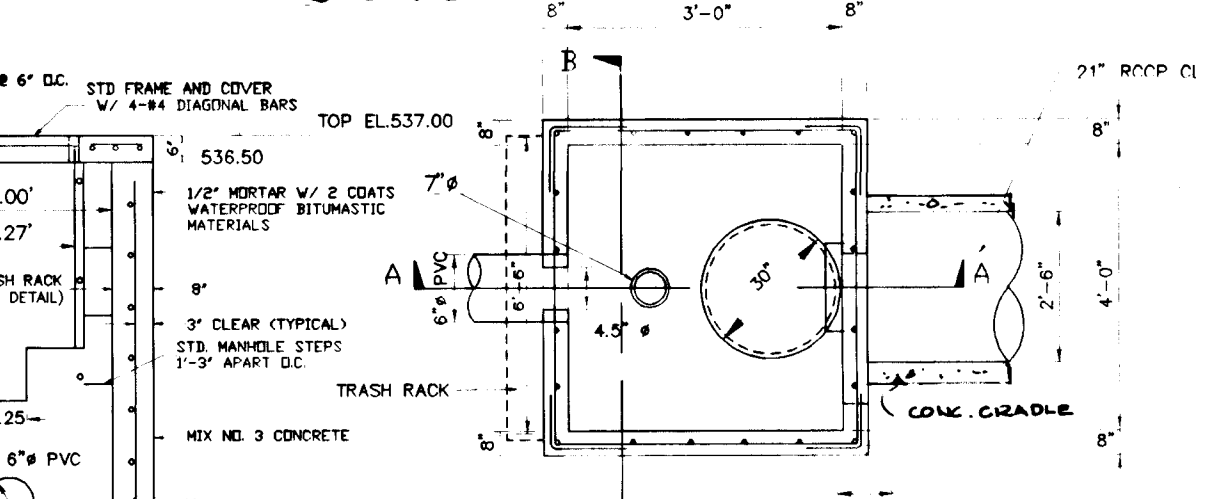
CONCRETE ANTI-FLOATATION COLLAR DETAIL
NOT TO SCALE



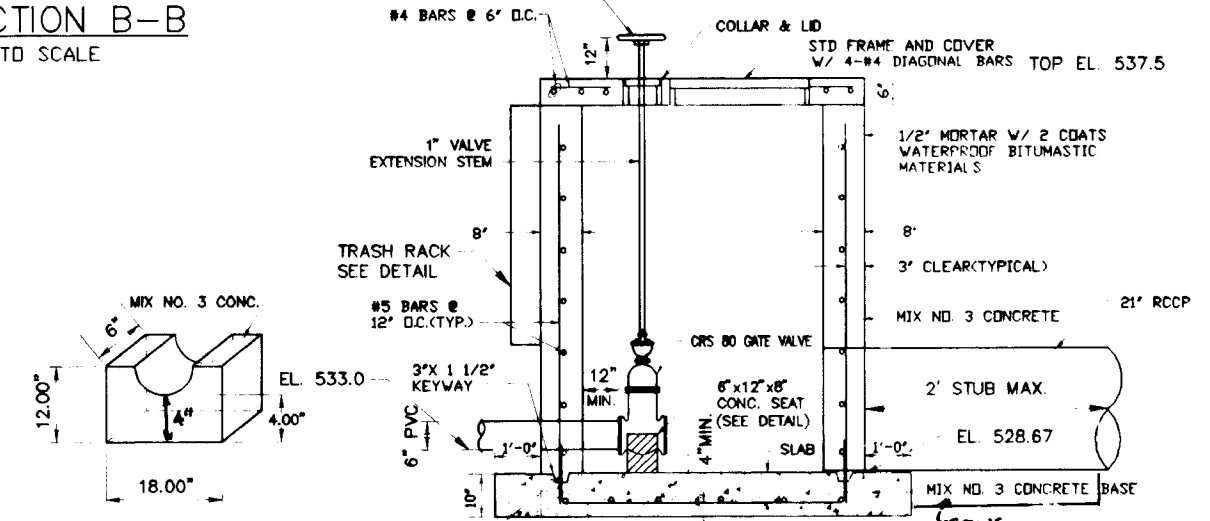
A-2 CRADLE DETAIL
NOT TO SCALE



TRASH RACK DETAIL
NOT TO SCALE



SECTION B-B
NOT TO SCALE



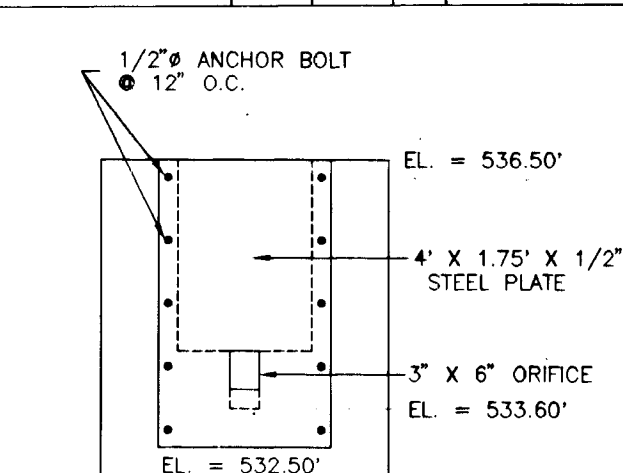
SEAT DETAIL
NOT TO SCALE

SECTION A-A
NOT TO SCALE

NOTE: VALVE DIMENSIONS ARE BASED ON CRS-RO GATE VALVE AS MANUFACTURED BY AMERICAN DARLING CO. ALL PARTS SHOULD BE CONSISTENT WITH THEIR CATALOGUE.

SOIL DESCRIPTION		STRA. DEPTH	DEPTH	SAMPLE		BORING & SAMPLING	
Color, Moisture, Density, Plasticity, Size, Proportion	Notes	SCALE	CON	Blows/ft	NO.	REC.	NOTES
Topsoil		0.33'	0.0'				Topsoil 40.0 in.
Reddish-brown moist loam to fine sand and gravel, trace rock fragments		3.0'	3.0'				Groundwater at 4.0 ft. Hard at 4 ft. 6.0 ft.
USC: SM	USDA: LOAMY SAND		3.0'				Test pit backfilled upon completion of observations.
	USDA:		3.0'				Backhoe refusal at 15.0 ft.
Brown moist micaceous coarse to fine sand with silty fine sand		12.0'	12.0'				Test pit terminated at 15.0 ft.
USC: SC	USDA:		12.0'				
Dark brown and white moist micaceous coarse to fine sand with trace rock fragments		15.0'	15.0'				Test pit terminated at 15.0 ft.
USC: SC	USDA:		15.0'				

SUMMARY TABLE	
1. DRAINAGE AREA = 10.50 ACRES	
2. DESIGN CRITERIA	
STORM FREQUENCY	ALLOWABLE INFLOWS
2 YR	RELEASE, cfs
10 YR	1.47 cfs
100 YR	8.37 cfs
	26.69 cfs
	49.20 cfs
3. POND	
STORM	ACTUAL DISCHARGE
2 YR	1.40 cfs
10 YR	8.26 cfs
100 YR	49.20 cfs
	ELEVATION
	534.47
	535.77
	536.45
	STORAGE
	0.22 ACRE-FT
	0.60 ACRE-FT
	0.78 ACRE-FT



TEMPORARY BLOCKING PLATE
NOT TO SCALE

OPERATION, MAINTENANCE AND INSPECTION

SOIL DESCRIPTION		STRA. DEPTH	DEPTH	SAMPLE		BORING & SAMPLING	
Color, Moisture, Density, Plasticity, Size, Proportion	Notes	SCALE	CON	Blows/ft	NO.	REC.	NOTES
Topsoil		0.25'	0.0'				Topsoil 40.0 in.
Light olive green clayey sand		2.0'	2.0'				Groundwater at 4.0 ft. Hard digging at 8.0 ft.
USC: SM	USDA: LOAMY SAND		2.0'				Test pit backfilled upon completion of observations.
	USDA:		2.0'				Backhoe refusal at 8.0 ft.
Yellow silty fine sand		8.0'	8.0'				Test pit terminated at 8.0 ft.
USC: SC	USDA:		8.0'				

SOIL DESCRIPTION		STRA. DEPTH	DEPTH	SAMPLE		BORING & SAMPLING	
Color, Moisture, Density, Plasticity, Size, Proportion	Notes	SCALE	CON	Blows/ft	NO.	REC.	NOTES
Yellowish brown fine sand trace clay		0.33'	0.0'				Topsoil 40.0 in.
USC: SM	USDA: LOAMY SAND		0.33'				Groundwater at 4.0 ft. Hard at 4 ft. 6.0 ft.
	USDA:		0.33'				Test pit backfilled upon completion of observations.
Brown moist micaceous coarse to fine sand with silty fine sand		8.0'	8.0'				Backhoe refusal at 8.0 ft.
USC: SC	USDA:		8.0'				Test pit terminated at 8.0 ft.

SOIL DESCRIPTION		STRA. DEPTH	DEPTH	SAMPLE		BORING & SAMPLING	
Color, Moisture, Density, Plasticity, Size, Proportion	Notes	SCALE	CON	Blows/ft	NO.	REC.	NOTES
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	USDA:		2.0'				Backhoe refusal at 8.0 ft.
Yellow silty fine sand		8.0'	8.0'				Test pit terminated at 8.0 ft.
USC: SC	USDA:		8.0'				

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Small Pond Construction, Soil Erosion and Sediment Control.

U.S. Natural Resources Conservation Service Date
These plans for Small Pond Construction, Soil Erosion and Sediment Control meet the requirements of the Howard County Soil Conservation District.

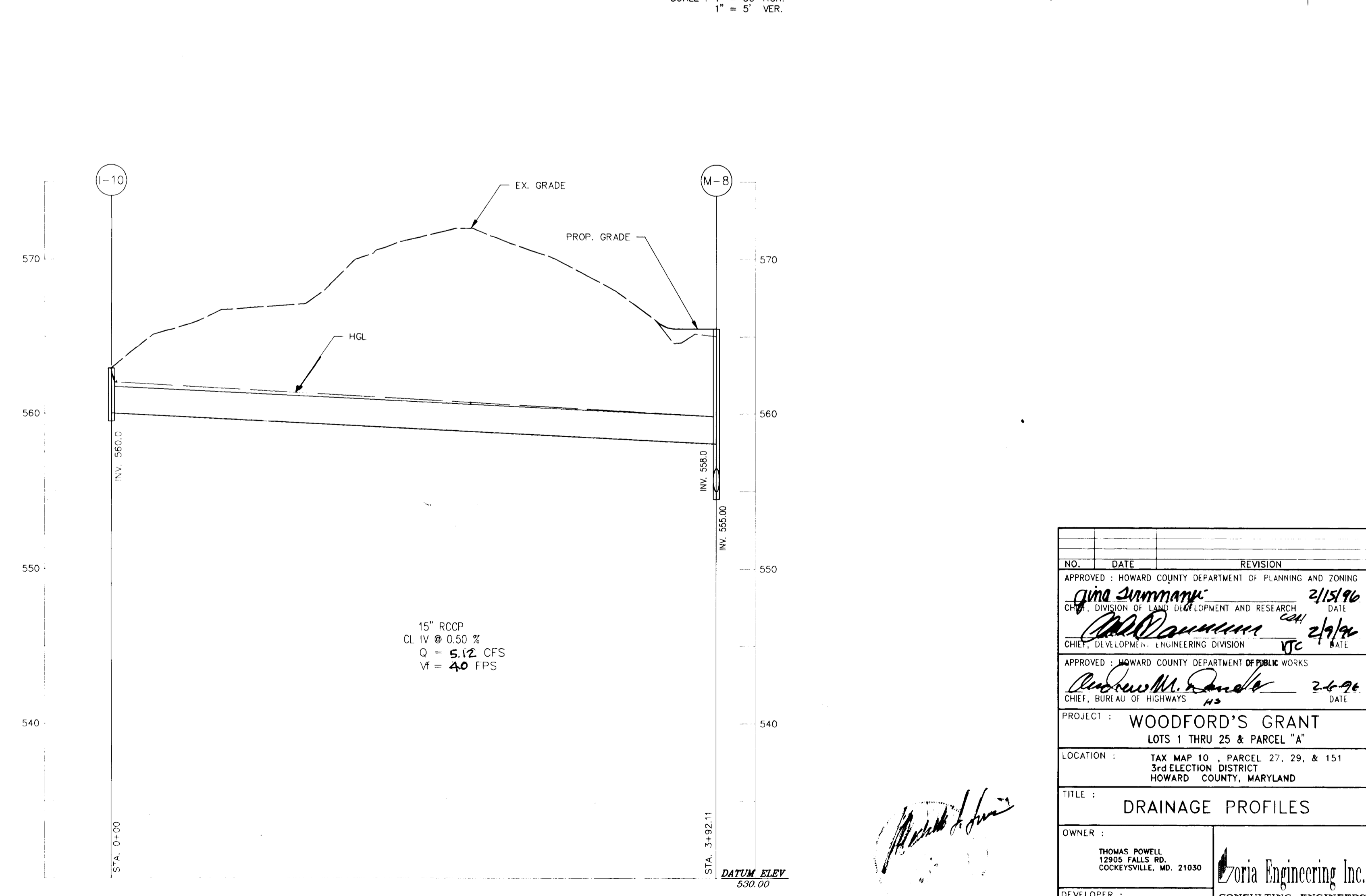
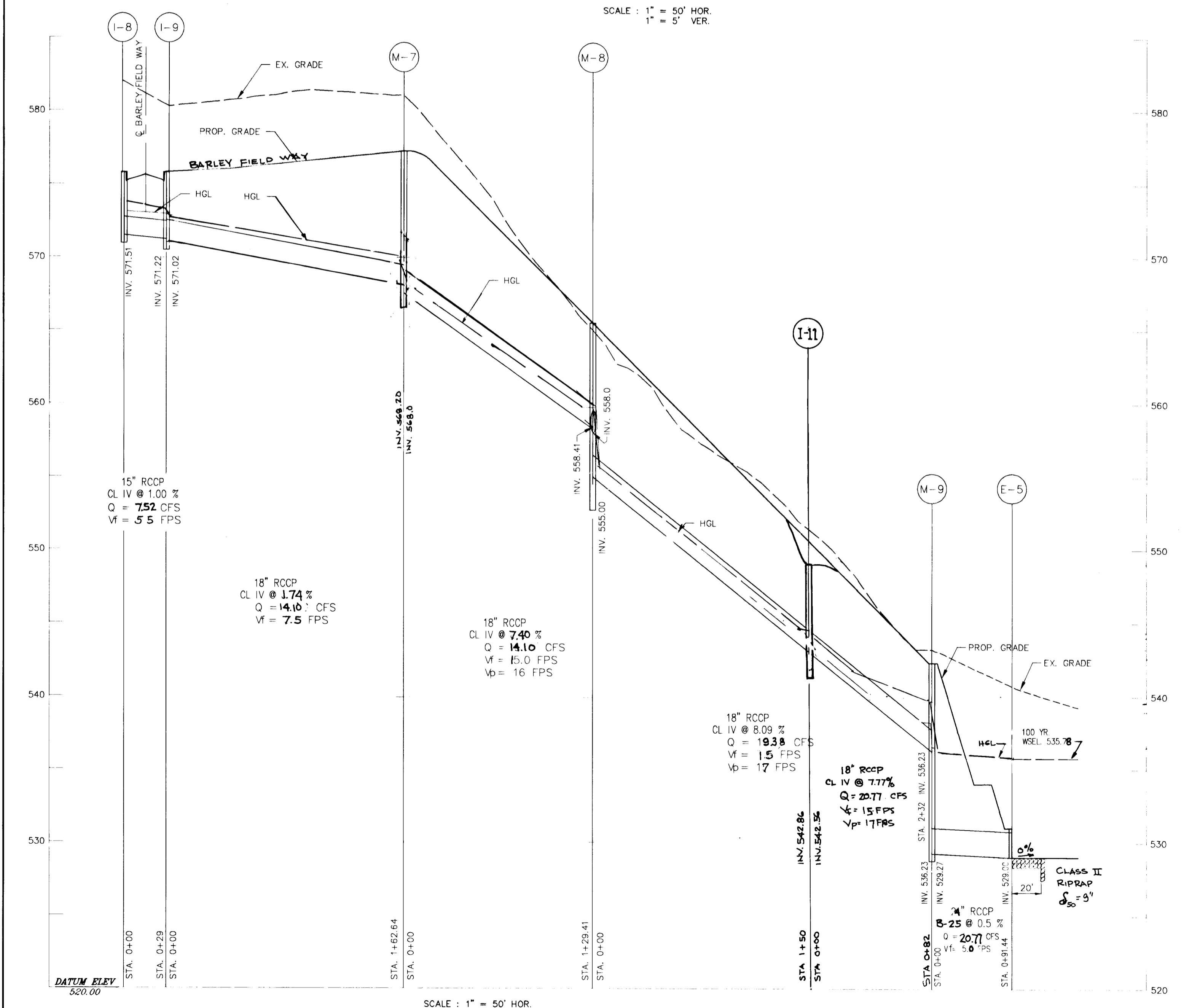
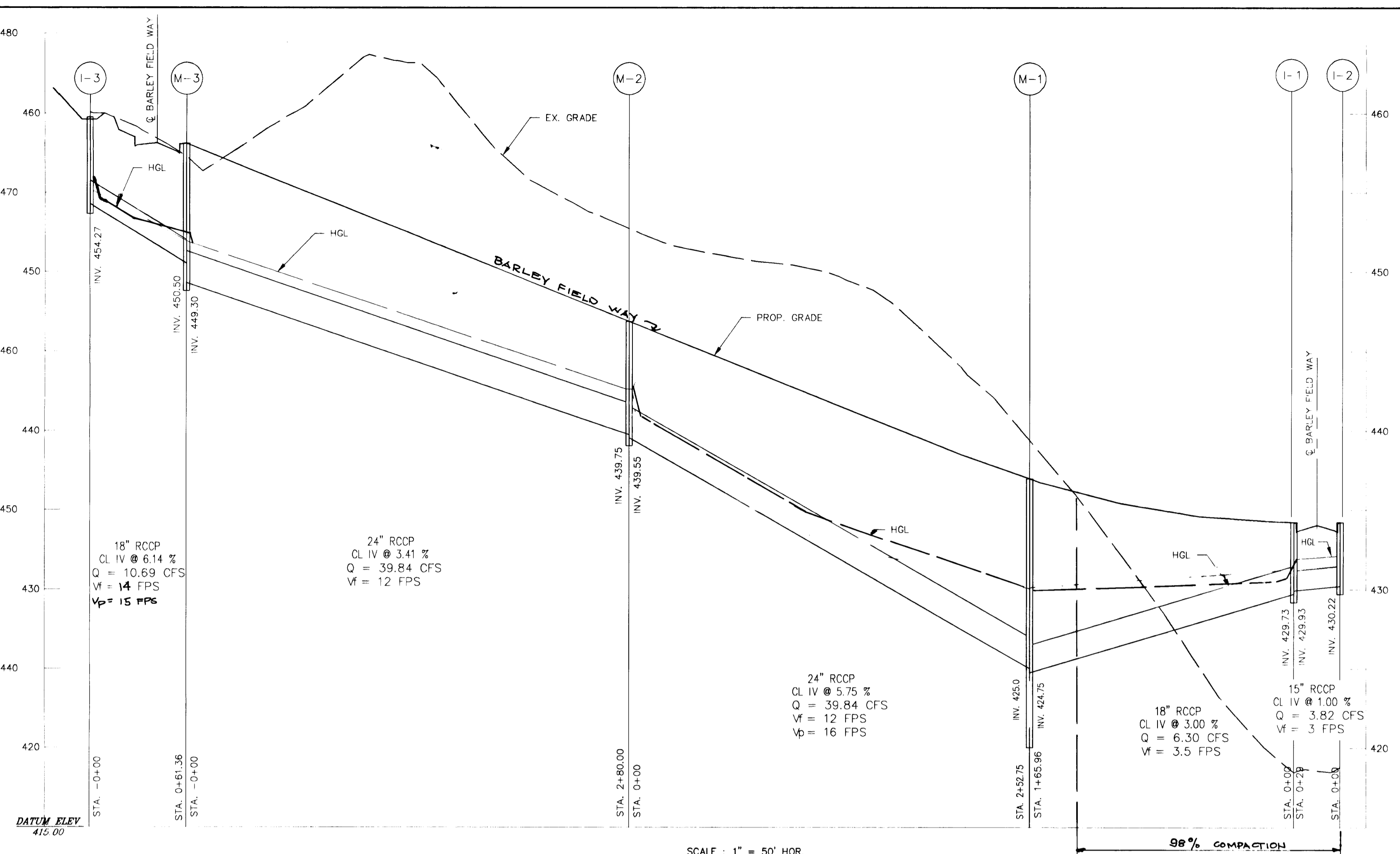
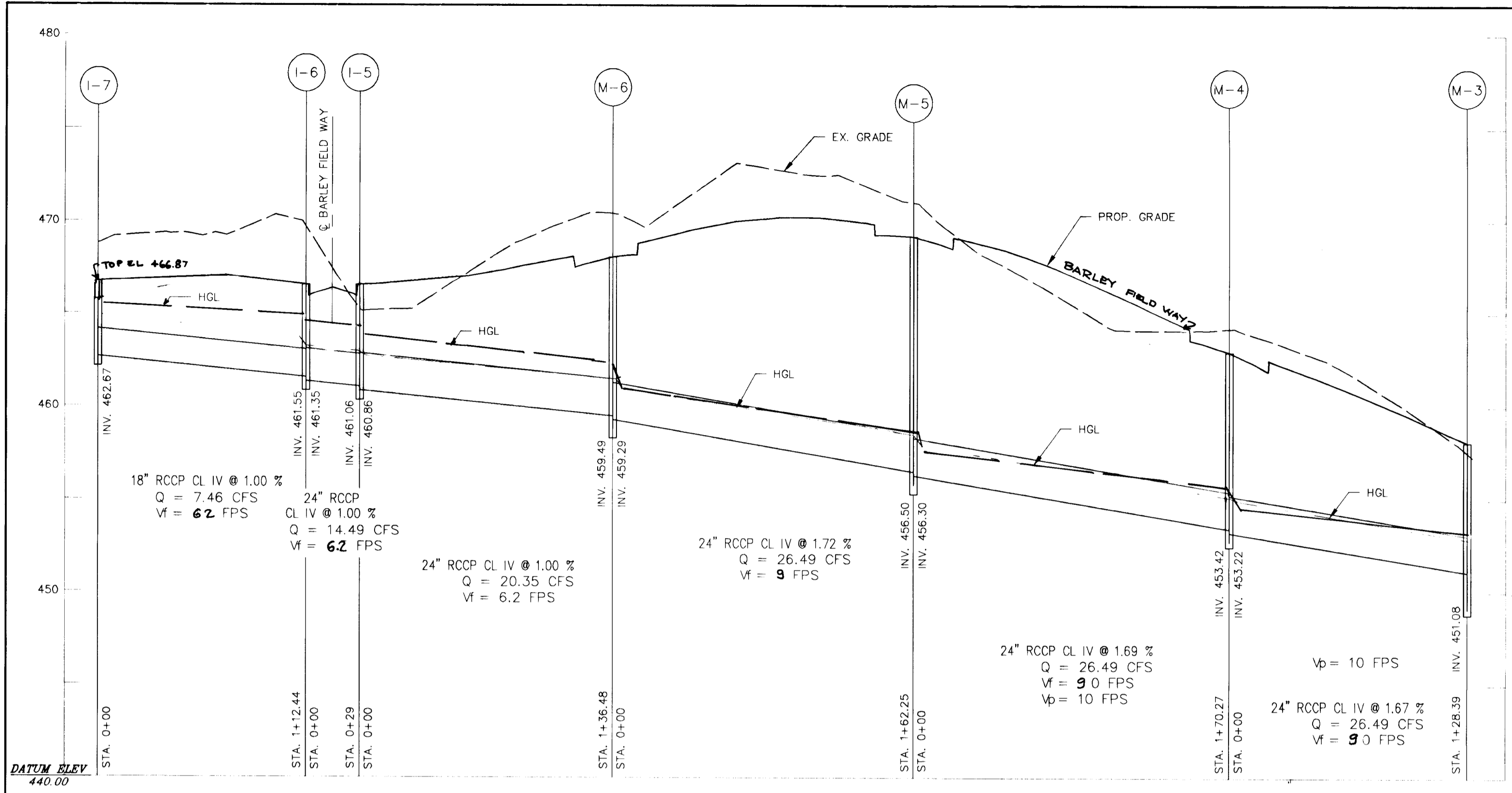
Howard Soil Conservation District Date

ENGINEER'S CERTIFICATE
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

DEVELOPER'S/BUILDER'S CERTIFICATE
I/We certify that all development and/or construction will be done according to these plans, and that any responsible involved in the construction project will have a Certificate of attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

NO.	DATE	REVISION
APPROVED :	HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
Chief, Division of Land Development and Research	<i>Anna Summerville</i>	2/15/96
APPROVED :	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
Chief, Bureau of Highways	<i>Robert D. ...</i>	2/19/96
PROJECT :	WOODFORD'S GRANT	
LOCATION :	TAX MAP 10, PARCEL 27, 29, & 151	
TITLE :	PLAN & DETAILS	
TITLE :	STORMWATER MANAGEMENT POND No.2	
OWNER :	THOMAS POWELL	
DEVELOPER :	LAND DESIGN & DEVELOPMENT INC.	
DESIGN :	AVG	CHECKED :
DRAWN :	AVG	APPROVED :
		DATE :
		SCALE :

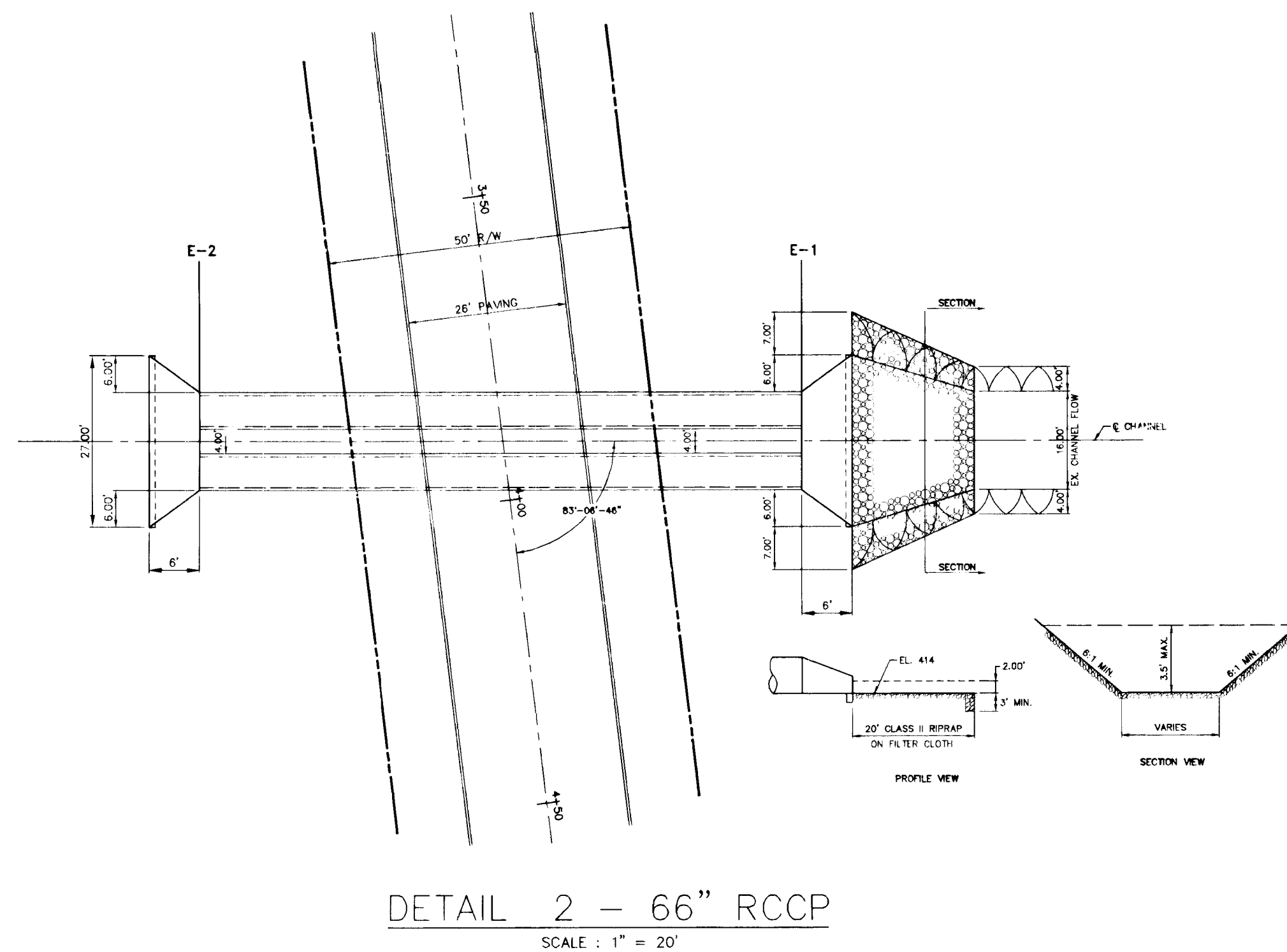
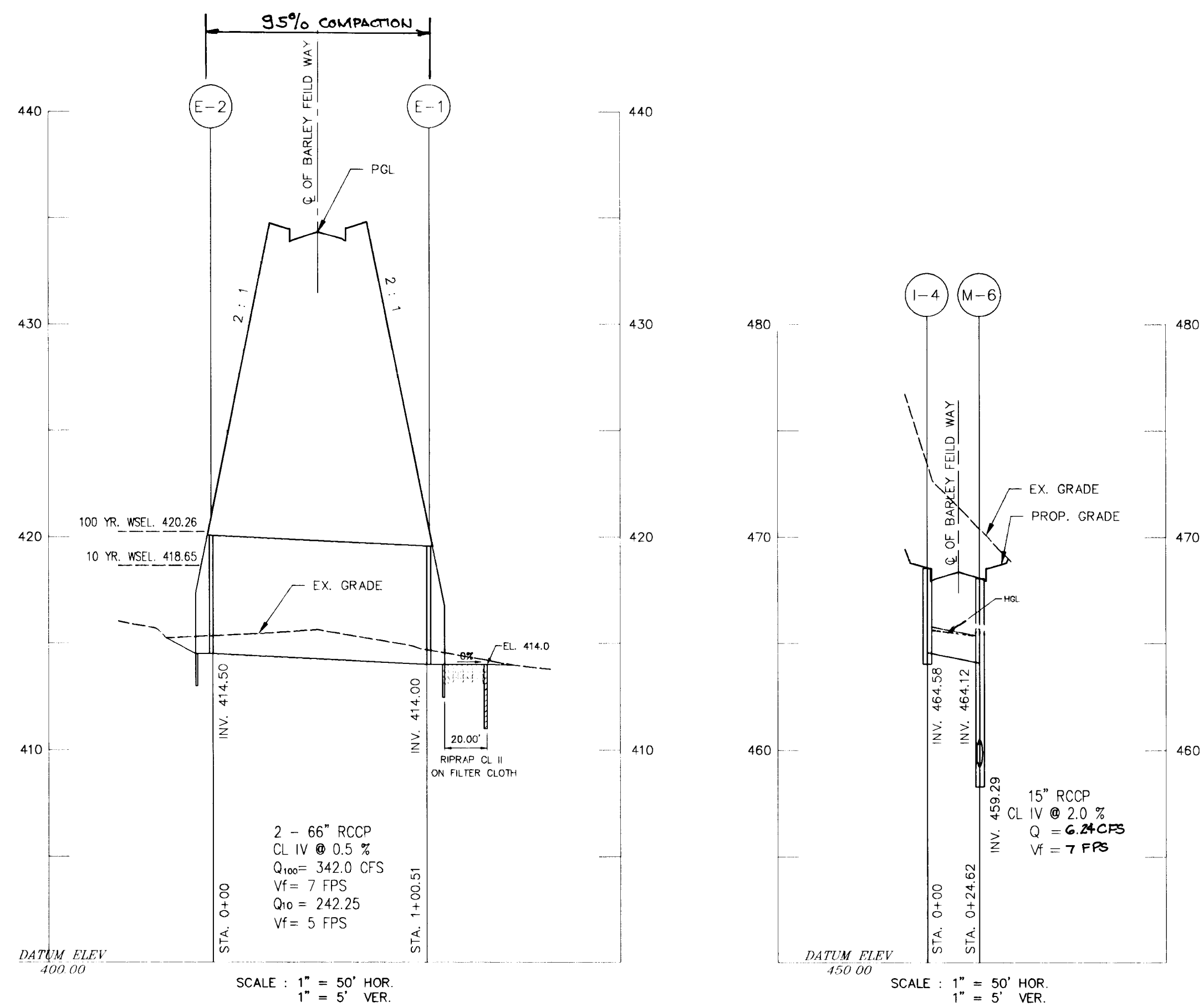
17364
C. DUMMEL, SW, 1001 W. 109.47.48 1995



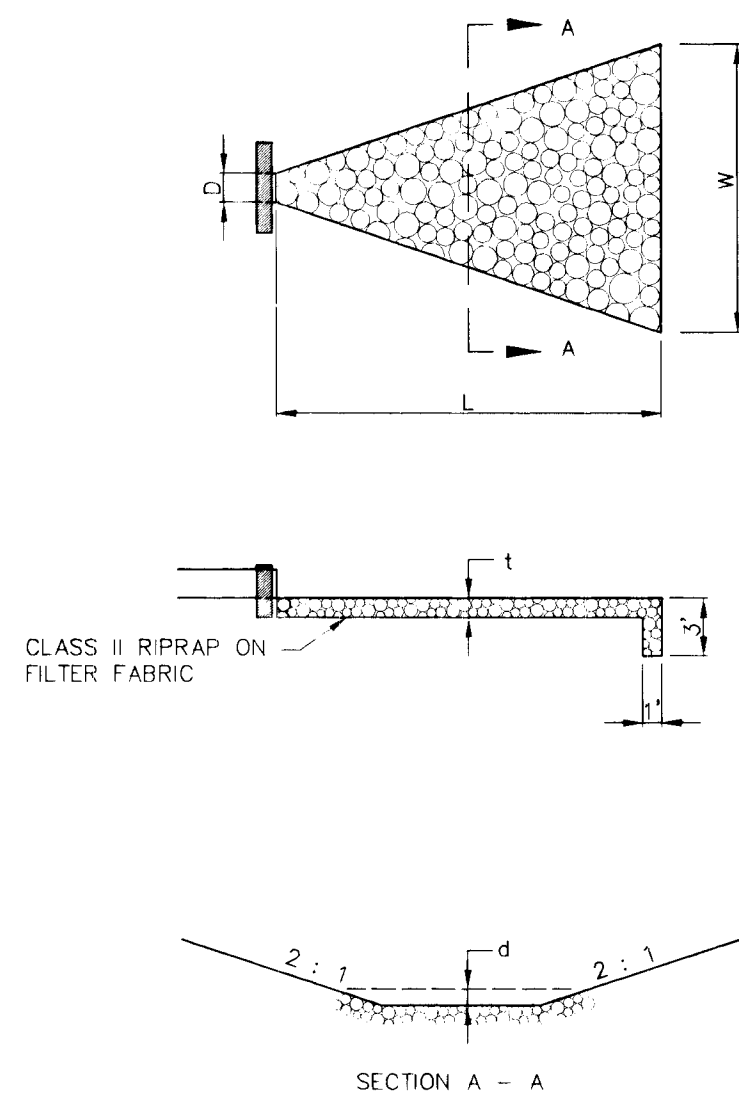
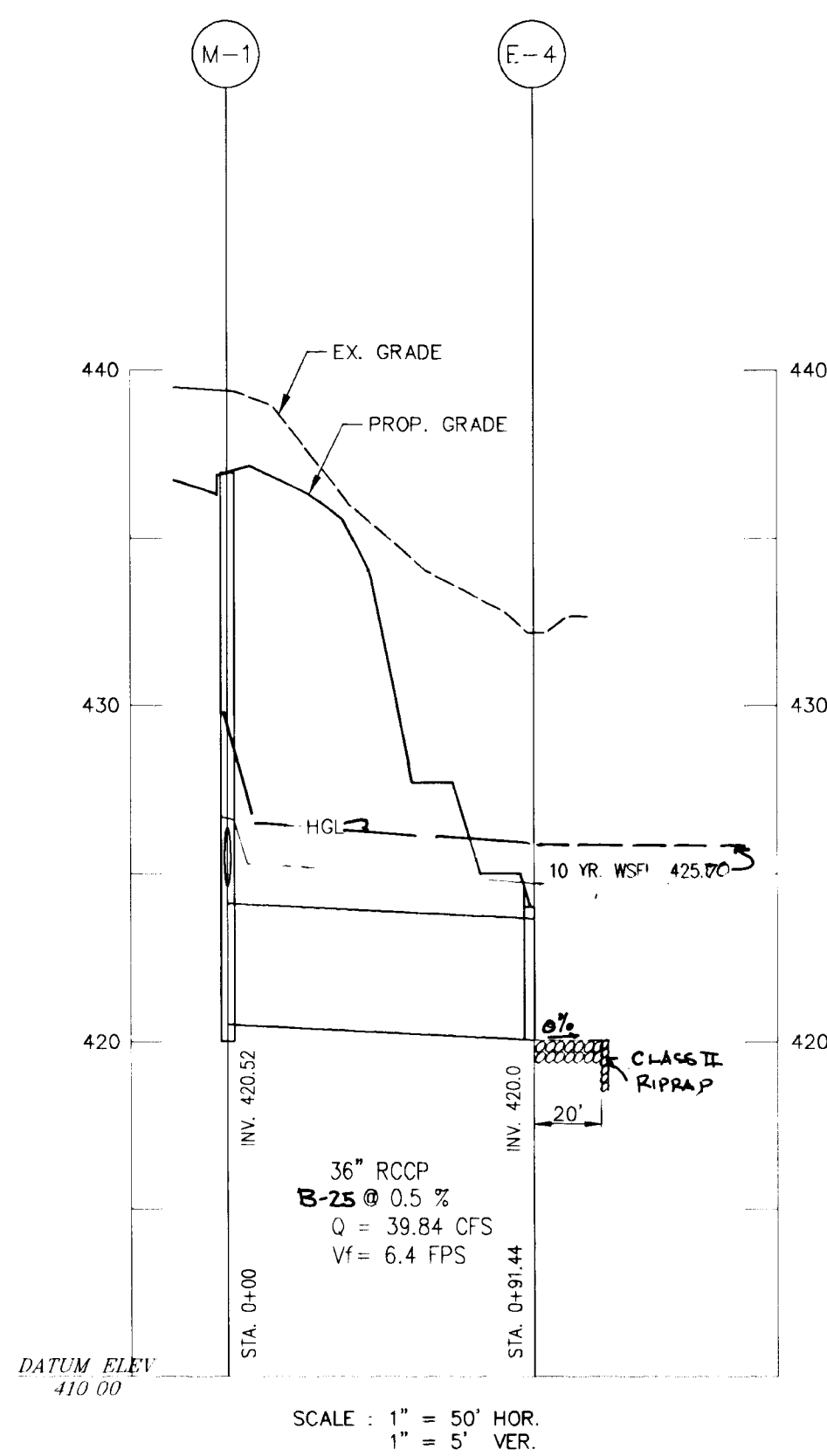
NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
Quin Summerville		2/15/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
Robert M. Dando		2/9/96
CHIEF, BUREAU OF HIGHWAYS		DATE
PROJECT: WOODFORD'S GRANT		
LOTS 1 THRU 25 & PARCEL "A"		
LOCATION: TAX MAP 10 - PARCEL 27, 29, & 151		
3rd ELECTION DISTRICT		
HOWARD COUNTY, MARYLAND		
TITLE: DRAINAGE PROFILES		
OWNER: THOMAS POWELL		
12805 FALLS RD.		
COCKEYSVILLE, MD. 21030		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC.		
1005 HISTORY ROCK RD.		
COLUMBIA, MD. 21044		
CONSULTING ENGINEER: Zoria Engineering Inc.		
8307 MAIN ST. - HISTORIC ELICOTT CITY, MD.		
TEL: 410-465-0400 FAX: 410-465-0440		
DESIGNED: MLL	CHECKED: MLL	DATE: 10-23-95 PROJ. NO.:
DRAWN: AVG	APPROVED: MLL	SCALE: AS SHOWN SHEET 10 OF 14

1784
C. LONGPANEL, CORP. 11/23/12 25 1995

F.9061



DETAIL 2 - 66" RCP
SCALE: 1" = 20'



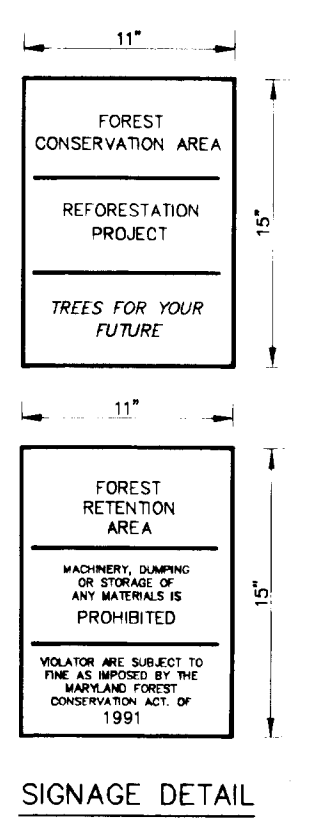
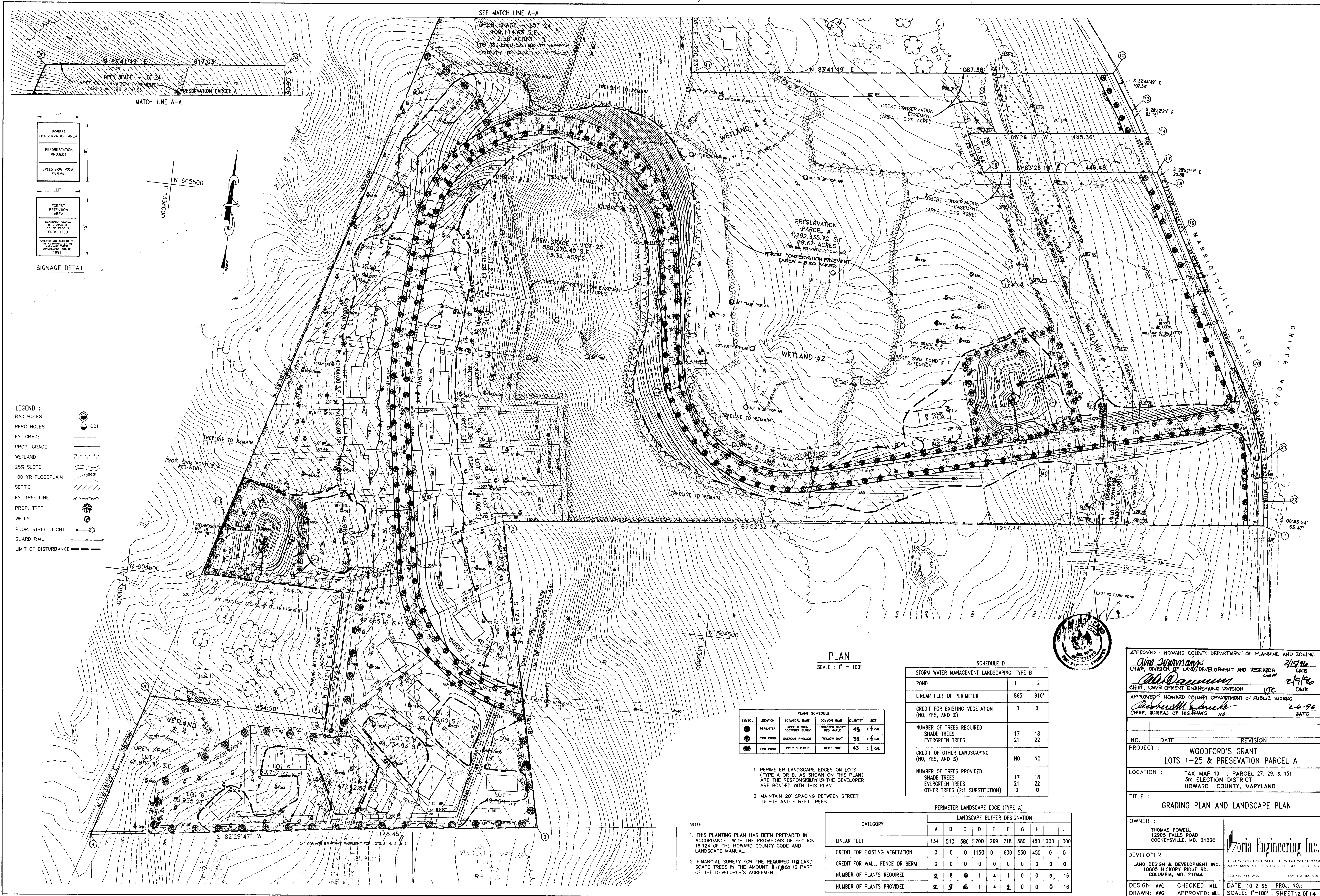
RIPRAP DETAIL
NOT TO SCALE

LOCATION	L	D ₅₀	d	w	t	CLASS	d50
E-3	20'	30"	6"	27.50'	9"	II	9"
E-4	20'	36"	6"	11'	9"	II	9"
E-5	20'	21"	6"	10'	9"	II	9"
E-6	20'	21"	6"	21.75'	9"	II	9"

STRUCTURE		SCHEDULE		REMARKS		LOCATION	
NUMBER	TYPE	INVERT IN	INVERT OUT	TOP EL.			
I-1	A-10	429.93	434.23	434.23	HOWARD COUNTY SD 4.02 W=2'-6"	STA 4+40.94 OF BARLEY FIELD WAY	14.92' RIGHT
I-2	A-10		430.22	434.23	HOWARD COUNTY SD 4.02 W=2'-6"	STA 4+40.94 OF BARLEY FIELD WAY	14.92' LEFT
I-3	K-INLET	454.27	459.75	459.75	HOWARD COUNTY SD 4.13 W=2'-6"	STA 11+61.13 OF BARLEY FIELD WAY	39.44' LEFT
I-4	A-10		464.58	468.58	HOWARD COUNTY SD 4.02 W=2'-6"	STA 16+17.85 OF BARLEY FIELD WAY	14.92' LEFT
I-5	A-10	461.06	460.86	466.54	HOWARD COUNTY SD 4.02 W=2'-6"	STA 17+58.33 OF BARLEY FIELD WAY	14.92' RIGHT
I-6	A-10	461.55	461.35	466.54	HOWARD COUNTY SD 4.02 W=2'-6"	STA 17+58.33 OF BARLEY FIELD WAY	14.92' LEFT
I-7	K-INLET		462.67	466.87	HOWARD COUNTY SD 4.13 DEPRESSED	STA 18+72 OF BARLEY FIELD WAY	34.80' RIGHT
I-8	A-10		571.51	575.80	HOWARD COUNTY SD 4.02 W=2'-6"	STA 36+55 OF BARLEY FIELD WAY	14.92' LEFT
I-9	A-10	571.22	571.02	575.83	HOWARD COUNTY SD 4.02 W=2'-6"	STA 36+55 OF BARLEY FIELD WAY	14.92' RIGHT
I-10	K-INLET		560.0	563.00	HOWARD COUNTY SD 4.13 W=2'-6"	N 184+143.997, E 407996.014	
M-1	STD MH	424.75 E 425.00 W	420.52	436.72	HOWARD COUNTY G. 5.13	STA 6+05.24 OF BARLEY FIELD WAY	16' RIGHT
M-2	STD MH	439.75	439.55	446.80	HOWARD COUNTY G. 5.12	STA 8+57.99 OF BARLEY FIELD WAY	16' RIGHT
M-3	STD MH	451.08 W 450.50 S	449.30	458.08	HOWARD COUNTY G. 5.12	STA 11+38.00 OF BARLEY FIELD WAY	17' RIGHT
M-4	STD MH	453.42	453.22	462.87	HOWARD COUNTY G. 5.12	STA 12+71.82 OF BARLEY FIELD WAY	8' RIGHT
M-5	STD MH	456.50	455.30	469.16	HOWARD COUNTY SD 5.12	STA 14+48.81 OF BARLEY FIELD WAY	8' RIGHT
M-6	STD MH	464.12 S 459.49 E	459.29	468.08	HOWARD COUNTY SD 5.12	STA 16+17.85 OF BARLEY FIELD WAY	10.12' RIGHT
M-7	STD MH	570.21	570.00	577.26	HOWARD COUNTY SD 5.12	STA 38+15 OF BARLEY FIELD WAY	16' RIGHT
M-8	STD MH	558.38 558.41	555.00	565.49	HOWARD COUNTY SD 5.12	N 184263.487, E 407998.523	
M-9	STD MH	536.23	529.27	542.30	HOWARD COUNTY SD 5.12	N 184260.254, E 407927.854	
E-1	TYPE A ENDWALL		414.00	421.00	HOWARD COUNTY SD 5.11	STA 3+95 OF BARLEY FIELD WAY	50.25' LEFT
E-2	TYPE A ENDWALL		414.50	421.00	HOWARD COUNTY SD 5.11	STA 3+85 OF BARLEY FIELD WAY	50.25' RIGHT
E-3	TYPE C ENDWALL		405.66	423.66	HOWARD COUNTY SD 5.21	N 184179.416, E 408524.360	
E-4	CONCRETE END SECTION			420.06		N 184459.278, E 408500.606	
E-5	CONCRETE END SECTION			529.00		N 184275.906, E 407926.947	
E-6	CONCRETE END SECTION			529.00		N 184292.353, E 407903.931	
S-1	SEE PLAN	420	419.67		SEE PLAN	N 184478.266, E 408508.612	
S-2	SEE PLAN	529	528.67		SEE PLAN	N 184294.048, E 407919.560	
I-11	K-INLET	542.86	542.56	549.00	HOWARD COUNTY SD 4.13	N 184241.942, E 407809.116	

NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
		<i>Aina Sammons</i> 2/15/96 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
		<i>John Dammann</i> 2/1/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
		<i>Andrew M. Schulte</i> 2-6-90 CHIEF, BUREAU OF HIGHWAYS DATE
PROJECT: WOODFORD'S GRANT LOTS 1 THRU 25 & PARCEL "A"		
LOCATION: TAX MAP 10, PARCEL 27, 29, & 151 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: DRAINAGE PROFILES		
OWNER: THOMAS POWELL 12905 FALLS RD. COCKEYSVILLE, MD. 21030		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044		
CONSULTING ENGINEERS Zoria Engineering Inc. 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. TEL: 410-485-0400 FAX: 410-485-0489		
DESIGNED: MLL	CHECKED: MLL	DATE: 10-23-95
DRAWN: AVG	APPROVED: MLL	SCALE: AS SHOWN SHEET 11 OF 14





- LEGEND :**
- BAD HOLES
 - PERC HOLES
 - EX. GRADE
 - PROP. GRADE
 - WETLAND
 - 25% SLOPE
 - 100 YR FLOODPLAIN
 - SEPTIC
 - EX. TREE LINE
 - PROP. TREE
 - WELLS
 - PROP. STREET LIGHT
 - GUARD RAIL
 - LIMIT OF DISTURBANCE

PLAN
SCALE: 1" = 100'

PLANT SCHEDULE

SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
●	PERIMETER	ACER RUBRA	"RED GLORY"	45	1 1/2 CAL.
○	SWM POND	QUERCUS PHELLO	"YELLOW OAK"	35	1 1/2 CAL.
○	SWM POND	PRINUS STRIBUS	"WHITE PINE"	43	1 1/2 CAL.

- PERIMETER LANDSCAPE EDGES ON LOTS (TYPE A OR B, AS SHOWN ON THIS PLAN) ARE THE RESPONSIBILITY OF THE DEVELOPER AND ARE BONDED WITH THIS PLAN.
- MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND STREET TREES.

SCHEDULE D
STORM WATER MANAGEMENT LANDSCAPING, TYPE B

	1	2
POND		
LINEAR FEET OF PERIMETER	865'	910'
CREDIT FOR EXISTING VEGETATION (NO. YES, AND %)	0	0
NUMBER OF TREES REQUIRED		
SHADE TREES	17	18
EVERGREEN TREES	21	22
CREDIT FOR OTHER LANDSCAPING (NO. YES, AND %)	NO	NO
NUMBER OF TREES PROVIDED		
SHADE TREES	17	18
EVERGREEN TREES	21	22
OTHER TREES (2:1 SUBSTITUTION)	0	0

PERIMETER LANDSCAPE EDGE (TYPE A)

CATEGORY	LANDSCAPE BUFFER DESIGNATION									
	A	B	C	D	E	F	G	H	I	J
LINEAR FEET	134	510	380	1200	269	718	580	450	300	1000
CREDIT FOR EXISTING VEGETATION	0	0	0	1150	0	600	550	450	0	0
CREDIT FOR WALL, FENCE OR BERM	0	0	0	0	0	0	0	0	0	0
NUMBER OF PLANTS REQUIRED	2	8	6	1	4	1	0	0	0	16
NUMBER OF PLANTS PROVIDED	2	9	6	1	4	2	0	0	0	16

- NOTE :**
- THIS PLANTING PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
 - FINANCIAL SURETY FOR THE REQUIRED 118 LANDSCAPE TREES IN THE AMOUNT \$11,800 IS PART OF THE DEVELOPER'S AGREEMENT.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Uma Summanna 2/15/96 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
John D. Summanna 2/15/96 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert W. S. Smith 2-6-96 DATE
 CHIEF, BUREAU OF HIGHWAYS

NO. _____ DATE _____ REVISION _____

PROJECT: **WOODFORD'S GRANT**
LOTS 1-25 & PRESEAVATION PARCEL A

LOCATION: TAX MAP 10, PARCEL 27, 29, & 151
 3rd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

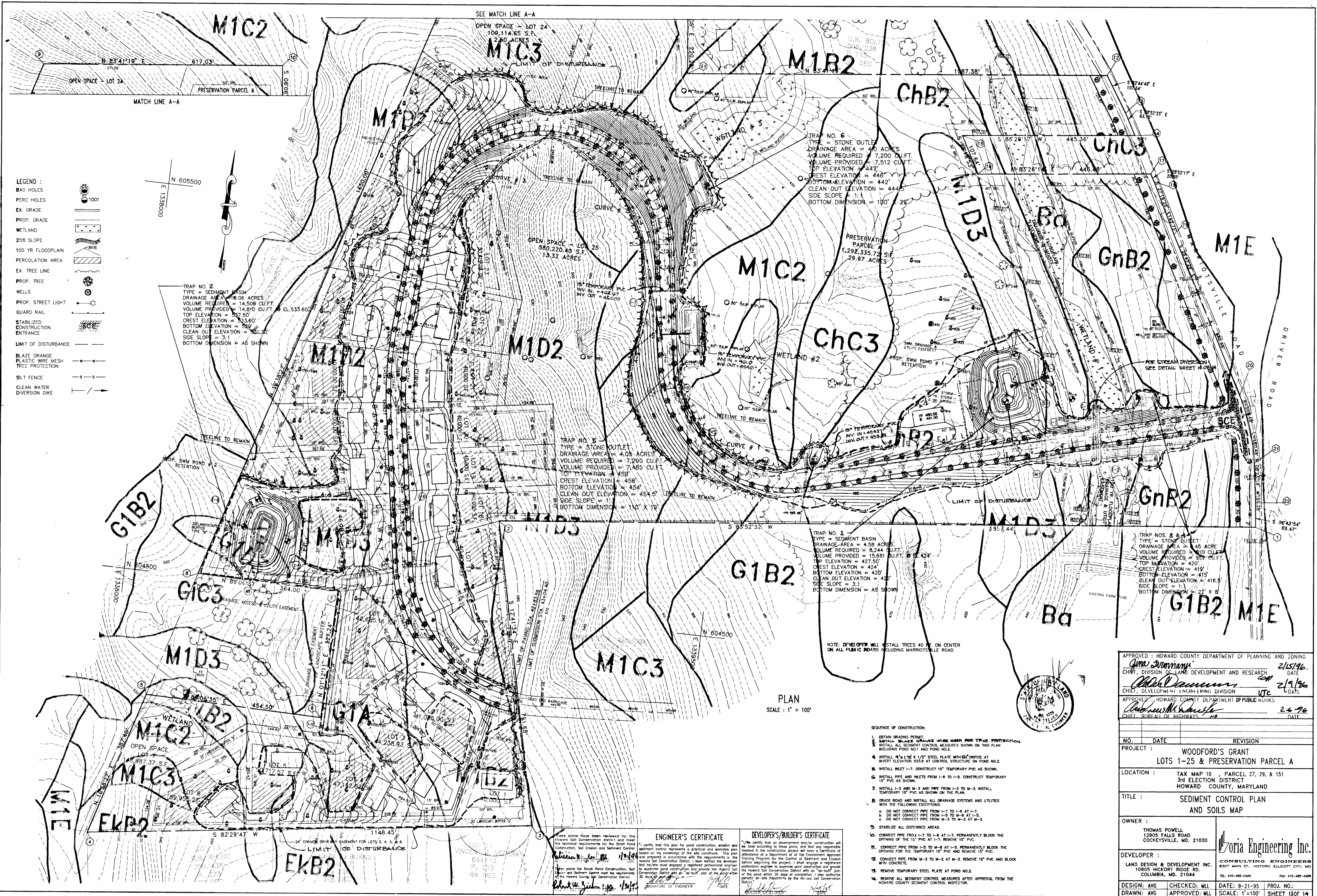
TITLE: **GRADING PLAN AND LANDSCAPE PLAN**

OWNER: **THOMAS POWELL**
 12905 FALLS ROAD
 COCKEYSVILLE, MD. 21030

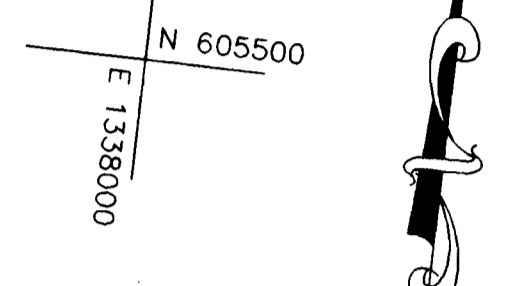
DEVELOPER: **Gloria Engineering Inc.**
 CONSULTING ENGINEERS
 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.
 COLUMBIA, MD. 21044
 TEL. 410-465-0400 FAX. 410-465-0400

DESIGN: AVG CHECKED: MLL DATE: 10-2-95 PROJ. NO.:
 DRAWN: AVG APPROVED: MLL SCALE: 1"=100' SHEET 12 OF 14

1784



- LEGEND :
- BAD HOLES
 - PERC HOLES
 - EX. GRADE
 - PROP. GRADE
 - WETLAND
 - 25% SLOPE
 - 100 YR FLOODPLAIN
 - PERCOLATION AREA
 - EX. TREE LINE
 - PROP. TREE
 - WELLS
 - PROP. STREET LIGHT
 - GUARD RAIL
 - STABILIZED CONSTRUCTION ENTRANCE
 - LIMIT OF DISTURBANCE
 - BLAZE ORANGE
 - PLASTIC WIRE MESH
 - TREE PROTECTION
 - SILT FENCE
 - CLEAN WATER DIVERSION DIKE



PLAN
SCALE: 1" = 100'



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Anna Stumm
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/15/96
 DATE
Chris Deamun
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 2/19/96
 DATE
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert W. Gault
 CHIEF, BUREAU OF HIGHWAYS 2/6/96
 DATE

- SEQUENCE OF CONSTRUCTION:
1. OBTAIN GRADING PERMIT.
 2. INSTALL BLAZE ORANGE WIRE MESH FOR TREE PROTECTION.
 3. INSTALL ALL SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN INCLUDING POND NO.1 AND POND NO.2.
 4. INSTALL 1/2" X 1/2" X 1/2" STEEL PLATE WITH 3/8" ORifice AT INVERT ELEVATION 533.8 AT CONTROL STRUCTURE ON POND NO.2.
 5. INSTALL INLET I-7. CONSTRUCT 15" TEMPORARY PVC AS SHOWN.
 6. INSTALL PIPE AND INLETS FROM I-8 TO I-5. CONSTRUCT TEMPORARY 15" PVC AS SHOWN.
 7. INSTALL I-3 AND M-3 AND PIPE FROM I-3 TO M-3. INSTALL TEMPORARY 15" PVC AS SHOWN ON THE PLAN.
 8. GRADE ROAD AND INSTALL ALL DRAINAGE SYSTEMS AND UTILITIES WITH THE FOLLOWING EXCEPTIONS:
 a. DO NOT CONNECT PIPE FROM I-7 TO I-6 AT I-7.
 b. DO NOT CONNECT PIPE FROM I-5 TO M-6 AT I-5.
 c. DO NOT CONNECT PIPE FROM M-3 TO M-2 AT M-3.
 9. STABILIZE ALL DISTURBED AREAS.
 10. CONNECT PIPE FROM I-7 TO I-4 AT I-7. PERMANENTLY BLOCK THE OPENING OF THE 15" PVC AT I-7. REMOVE 15" PVC.
 11. CONNECT PIPE FROM I-5 TO M-6 AT I-5. PERMANENTLY BLOCK THE OPENING FOR THE TEMPORARY 15" PVC AND REMOVE 15" PVC.
 12. CONNECT PIPE FROM M-3 TO M-2 AT M-3. REMOVE 15" PVC AND BLOCK WITH CONCRETE.
 13. REMOVE TEMPORARY STEEL PLATE AT POND NO.2.
 14. REMOVE ALL SEDIMENT CONTROL MEASURES AFTER APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control measures is a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the required Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize on-site inspections by the Howard Soil Conservation District.
Robert W. Gault 1/31/96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize on-site inspections by the Howard Soil Conservation District.
Thomas Powell 1/31/96
 SIGNATURE OF DEVELOPER/BUILDER DATE

NO.	DATE	REVISION
PROJECT: WOODFORD'S GRANT LOTS 1-25 & PRESERVATION PARCEL A		
LOCATION: TAX MAP 10, PARCEL 27, 29, & 151 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: SEDIMENT CONTROL PLAN AND SOILS MAP		
OWNER: THOMAS POWELL 12905 FALLS ROAD COCKEYSVILLE, MD. 21030		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044		
CONSULTING ENGINEERS 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. TEL: 410-485-0400 FAX: 410-485-0489		
DESIGN: AVG	CHECKED: MLL	DATE: 9-21-95
DRAWN: AVG	APPROVED: MLL	SCALE: 1"=100'
		PROJ. NO.: SHEET 130F 14

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