

ROADWAYS AND STORM DRAINS

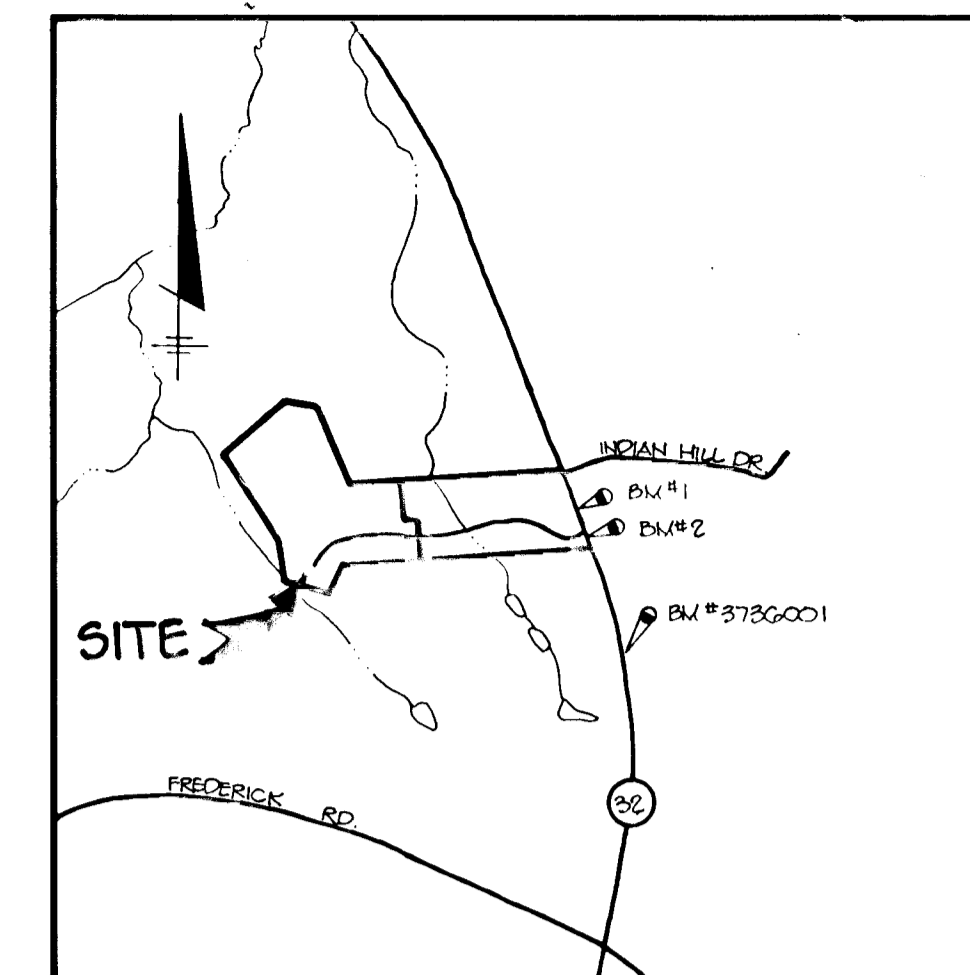
COVENTRY MEADOWS

SECTION TWO

3rd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE FROM STA. 14+00 TO STA. 26+50
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4	DRAINAGE AREA MAP
5	GRADING, SEDIMENT CONTROL PLAN AND DETAIL SHEET
6	GRADING, SEDIMENT CONTROL PLAN AND DETAIL SHEET



VICINITY MAP
SCALE: 1" = 2000'

BENCH MARKS

B.M. #3736001 ELEV. 618.453
 N. 544627.217 E. 814488.855
 CONCRETE MONUMENT 0.4' BELOW SURFACE
 200' SOUTH OF INTERSECTION OF ROUTE 32
 AND OLD ROUTE 32.
 B.M. #1 ELEV. 573.73
 NAIL IN HUB 900 SET ON WEST SIDE OF
 PAVING ON ROUTE 32, 100' NORTH WEST
 POWER POLE OF C & P 52.
 B.M. #2 ELEV. 584.07
 NAIL IN HUB 901 SET ON WEST SIDE OF
 PAVING ON ROUTE 32, 75' NORTHWEST OF
 POWER POLE C & P 50 1/2.

HORIZONTAL & VERTICAL CURVES
 U.S. TERRITORY SURVEY.

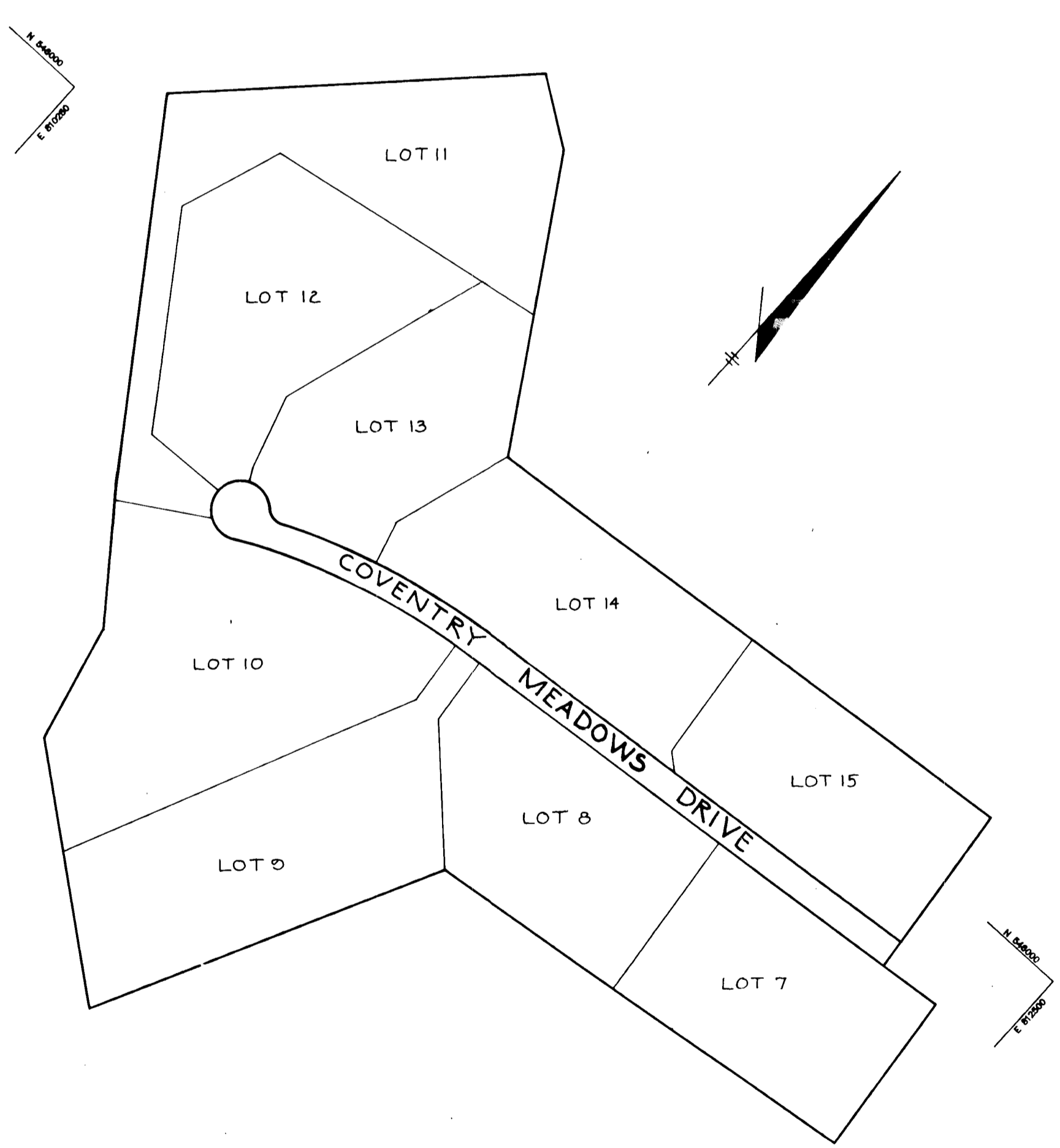
GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1980 AMENDMENTS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
BELL TELEPHONE SYSTEM	393-3669
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000, ext. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION	792-7272
INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	
COLONIAL PIPELINE	795-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1980 AMENDMENTS.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL, 1988 EDITION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

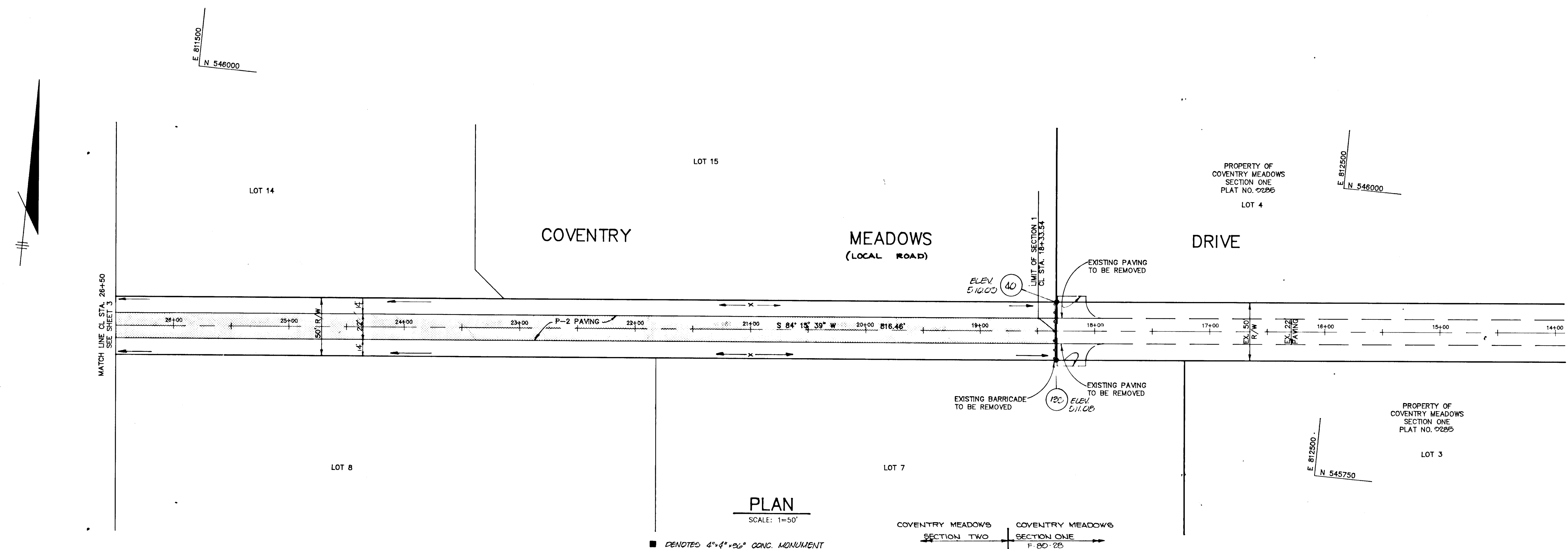
ALL 50' RIGHT-OF-WAYS	30 M.P.H.
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- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R PER COMPREHENSIVE ZONING PLAN.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED APRIL, 1988 BY RIEMER MUEGGE & ASSOCIATES, INC.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BENDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL, UNLESS OTHERWISE NOTED.
- SEE DEPT. OF PLANNING AND ZONING FILE Nos. 5-88-70 WP-88-100 WP-88-123 P-89-74 P-89-28 WP-90-18
- WP-88-100 AND WP-88-123 IS A WAIVER OF SECTION 16.120 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH REQUIRES SUBMITTAL OF A PRELIMINARY PLAN FOR COVENTRY MEADOWS SECTION ONE.
- DRIVEWAY CULVERTS WILL BE REQUIRED FOR THE FOLLOWING LOTS:

LOT #	CULVERT SIZE
10	18"
11	18"
12	18"
- WP-90-18 IS A WAIVER OF SECTION 16.113 C (1) TO PERMIT CUL-DE-SAC LENGTH TO EXCEED 1200 FEET.



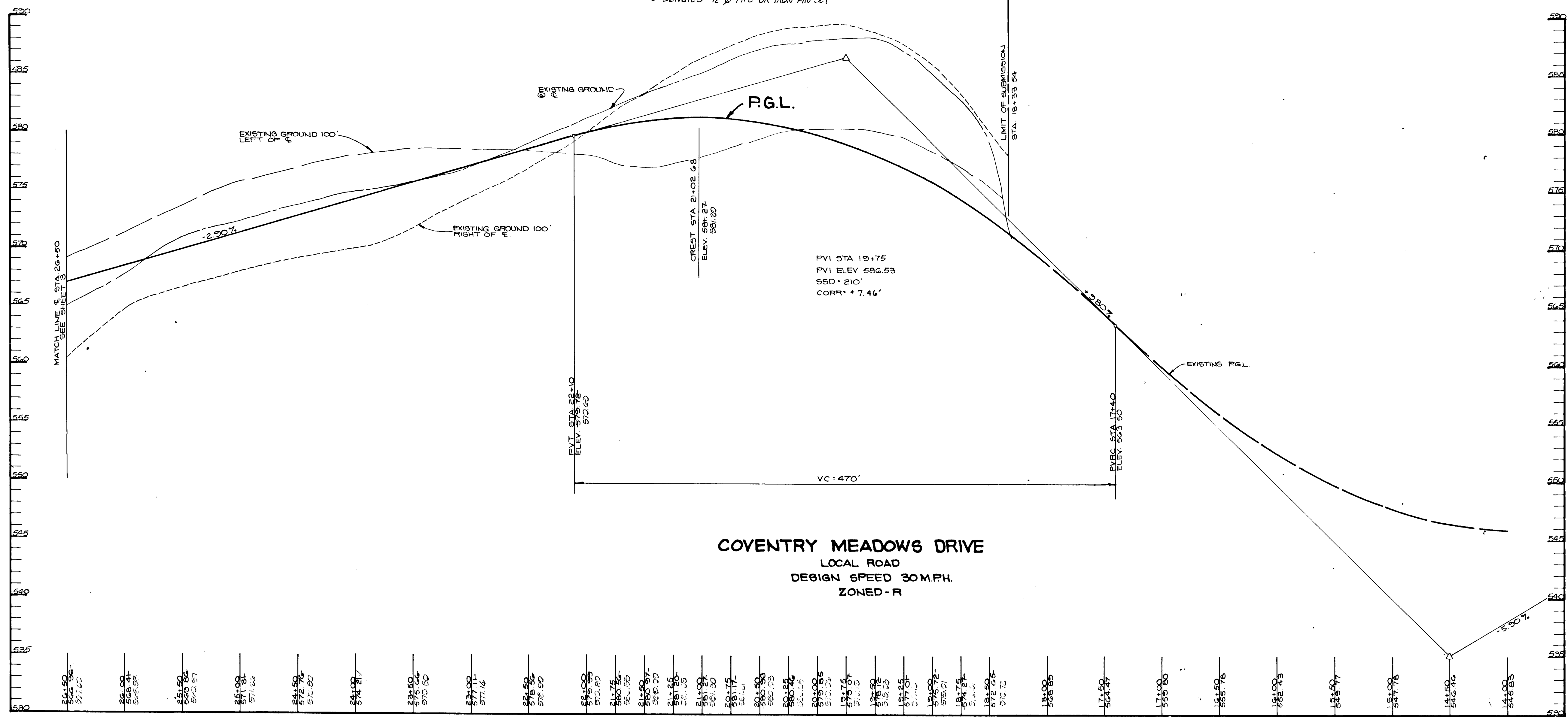
PLAN
SCALE: 1" = 200'

AS BUILT CERTIFICATION	
ENGINEER <u>JAYKANT PAREKH</u>	DATE <u>1.7.92</u>
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<u>David C. Dwyer</u>	DATE <u>7/5/90</u>
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<u>John M. Simpson</u>	DATE <u>6/24/90</u>
CHIEF, LAND DEVELOPMENT DIVISION MK	
<u>Franklin W. Weisand</u>	DATE <u>6/25/90</u>
CHIEF, BUREAU OF HIGHWAYS	
APPROVED: HOWARD COUNTY DEPARTMENT OF ENGINEERING	
CHIEF, BUREAU OF ENGINEERING	
DATE	NO. REVISION
OWNER/DEVELOPER	
THE DICKEY FAMILY % WALTER JOHNSON PRUDENTIAL BACHE SECURITIES 250 W PRATT STREET BALTIMORE, MARYLAND 21201	
PROJECT	
COVENTRY MEADOWS (SECTION TWO LOTS 7-15)	
AREA TAX MAP NO. 5 ZONED R PARCEL 71	
3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND.	
TITLE	
TITLE SHEET	
RIEMER MUEGGE & ASSOCIATES, INC.	
A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176	
DATE <u>5.30.90</u>	DESIGNED BY: D.A.M.
	DRAWN BY: D.B.S.
	PROJECT NO: 50703
	DATE: MAY 31, 1990
	SCALE: AS SHOWN
	DRAWING NO. <u>1</u> OF <u>6</u>



PLAN
SCALE: 1"=50'

■ DENOTES 4"x4"x26" CONC. MONUMENT
● DENOTES 1/2" Ø PIPE OR IRON PIN SET



COVENTRY MEADOWS DRIVE
LOCAL ROAD
DESIGN SPEED 30 M.P.H.
ZONED-R

PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

AS BUILT CERTIFICATION

ENGINEER: JAYKANT PAREKH DATE: 1.7.93
PE # 19148

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Frank J. Taylor 7/15/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Al M. Torgans 6/29/93
CHIEF, LAND DEVELOPMENT DIVISION

Travis W. Wenzel
CHIEF, BUREAU OF HIGHWAYS

... 7-2-93
CHIEF, BUREAU OF ENGINEERING

DATE	NO.	REVISION

OWNER/DEVELOPER
THE DICKEY FAMILY % WALTER JOHNSON
PRUDENTIAL-BACHE SECURITIES
250 W PRATT STREET BALTIMORE, MARYLAND 21201

PROJECT
COVENTRY MEADOWS
(SECTION TWO LOTS 7-15)

AREA TAX MAP NO. 5 ZONED-R PARCEL 71
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **PLAN AND PROFILE OF COVENTRY MEADOWS DRIVE FROM STA. 14+00 TO STA. 26+50**

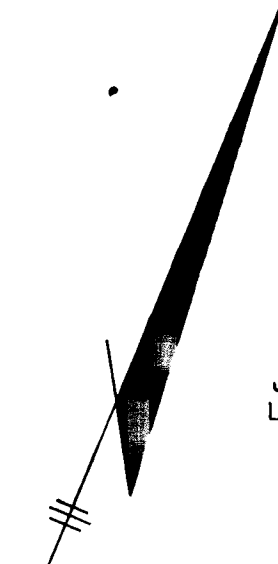
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE: 5-30-90
DESIGNED BY: D.A.M.
DRAWN BY: G.D.H.
PROJECT NO: 50703
DATE: MAY 31, 1990
SCALE: AS SHOWN
DRAWING NO. 2 OF 6

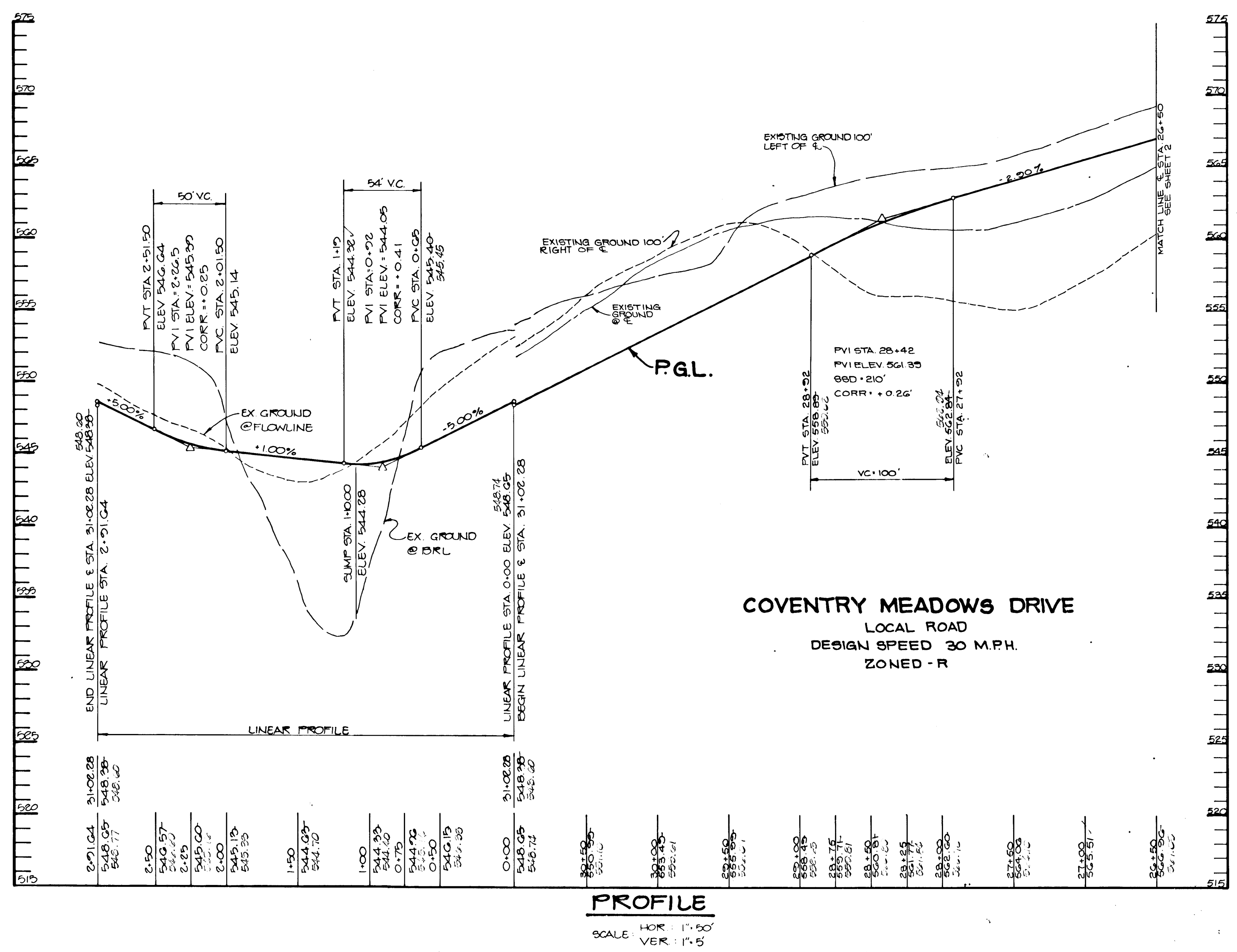
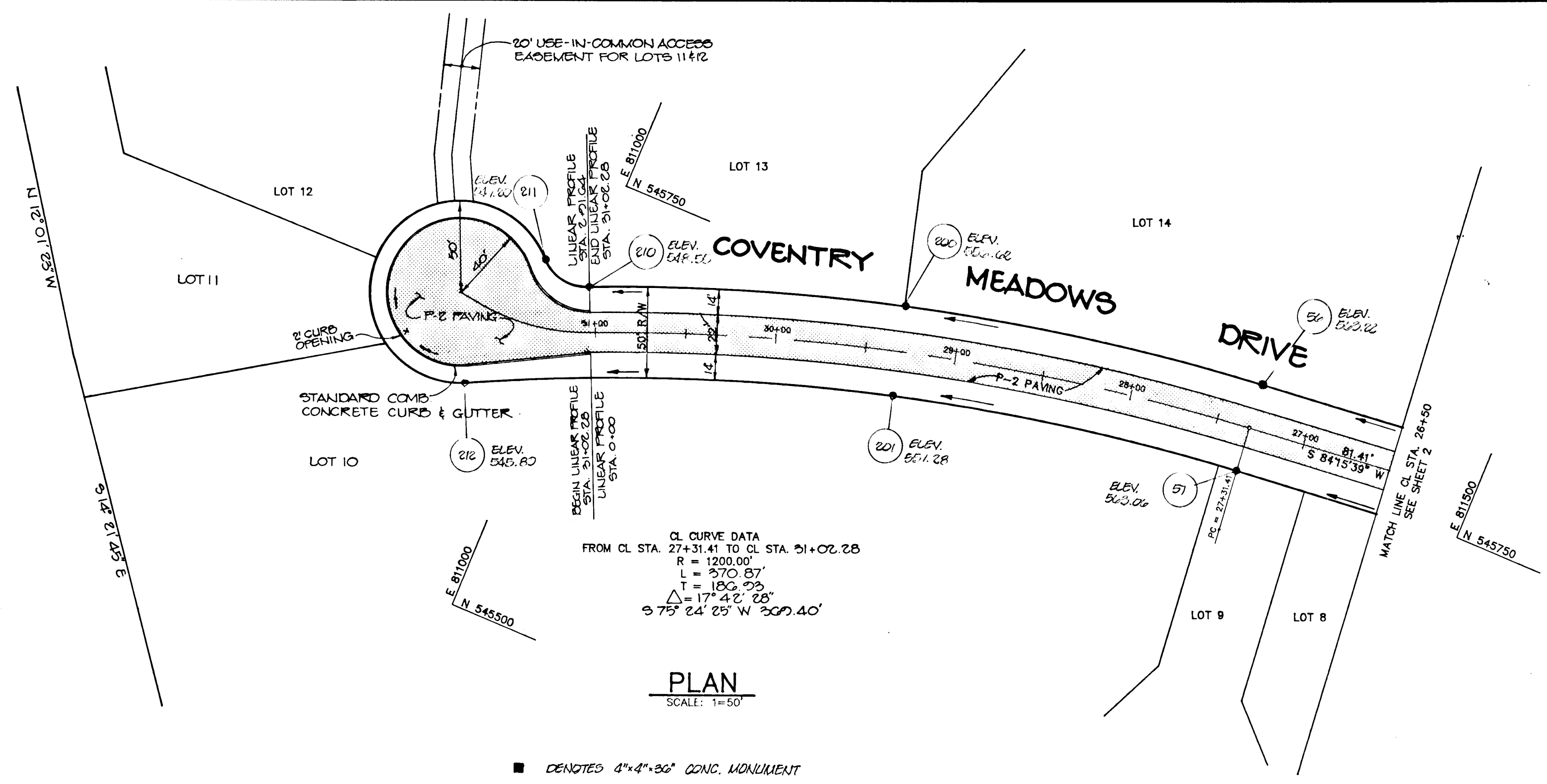
STATE OF MARYLAND
ARTHUR E. MUEGGE, P.E.
PROFESSIONAL ENGINEER

1447

MARYLAND BLUEPRINT CO., INC. 11000



PROPERTY OF
JEAN R. DICKEY
L. 1773 F. 47



AS BUILT CERTIFICATION

ENGINEER *JAYKANT PAREKH*
PE # 13148 DATE 1.7.93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Frank J. ... 7/6/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chas. M. ... 6/29/90
CHIEF, LAND DEVELOPMENT DIVISION

Granville W. ... 6/25/90
CHIEF, BUREAU OF HIGHWAYS

DATE NO REVISION

OWNER / DEVELOPER
THE DICKEY FAMILY % WALTER JOHNSON
PRUDENTIAL - BACHE SECURITIES
250 W. PRATT STREET BALTIMORE, MARYLAND 21201

PROJECT
COVENTRY MEADOWS
(SECTION TWO LOTS 7-15)

AREA TAX MAP NO 5 ZONED - R PARCEL 71
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: PLAN AND PROFILE OF
COVENTRY MEADOWS DRIVE
FROM STA. 26+50 TO END

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

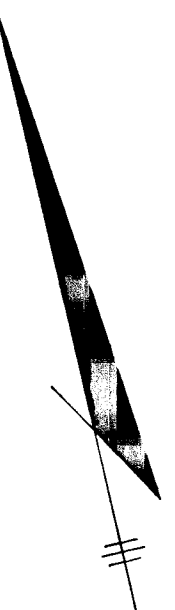
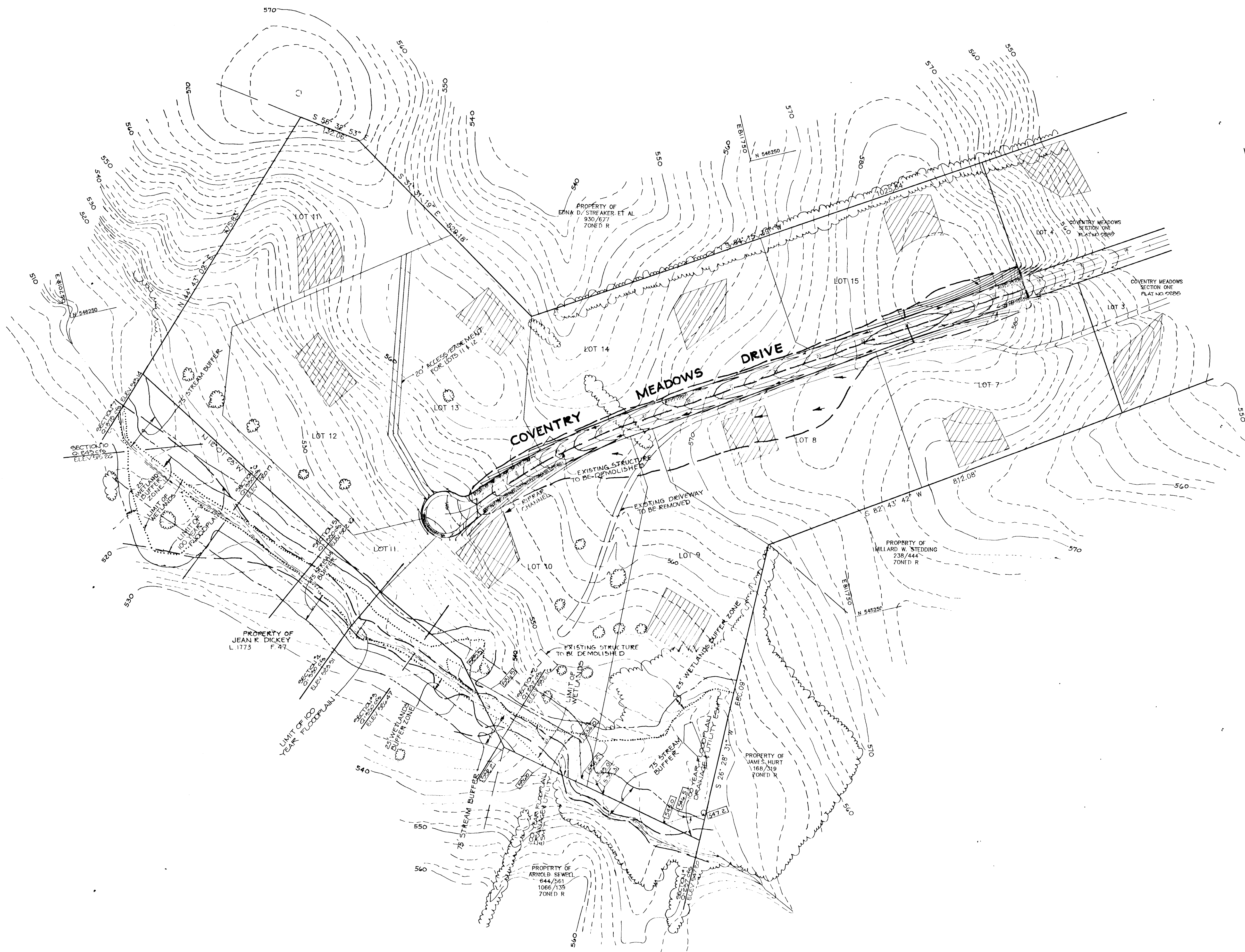
5-30-90 DATE

DESIGNED BY: D.A.M.
DRAWN BY: G.D.H.
PROJECT NO: 50703
DATE: MAY 31, 1990
SCALE: AS SHOWN
DRAWING NO. 3 OF 6

STATE OF MARYLAND
ARTHUR E. MUEGGE # 8107

1447

MARYLAND SURVEYING CO., INC. 100000



PLAN
SCALE: 1" = 100'

AS BUILT CERTIFICATION	
ENGINEER <u>JAYKANT PAROKH</u>	
PE # <u>19148</u>	DATE <u>1.7.93</u>
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<u>Jack J. Dwyer</u>	DATE <u>7/15/93</u>
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<u>Alan M. Jordan</u>	DATE <u>6/28/93</u>
CHIEF, LAND DEVELOPMENT DIVISION	
<u>Granville W. Weland</u>	DATE <u>6/25/90</u>
CHIEF, BUREAU OF HIGHWAYS	
DATE	
DATE	REVISION
OWNER/DEVELOPER	
THE DICKEY FAMILY & WALTER JOHNSON PRUDENTIAL-BACHE SECURITIES 250 W PRATT STREET BALTIMORE, MARYLAND. 21201	
PROJECT	
COVENTRY MEADOWS (SECTION TWO LOTS 7-15)	
AREA TAX MAP NO. 9 ZONED-R PARCEL 71 3rd ELECTION DISTRICT HOWARD COUNTY, MARYLAND.	
TITLE	
DRAINAGE AREA MAP	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176	
DATE <u>5-30-90</u>	DESIGNED BY: <u>D.A.M.</u>
	DRAWN BY: <u>D.B.S.</u>
	PROJECT NO: <u>50703</u>
	DATE: <u>MAY 21, 1990</u>
	SCALE: <u>AS SHOWN</u>
	DRAWING NO. <u>4</u> OF <u>6</u>

1447

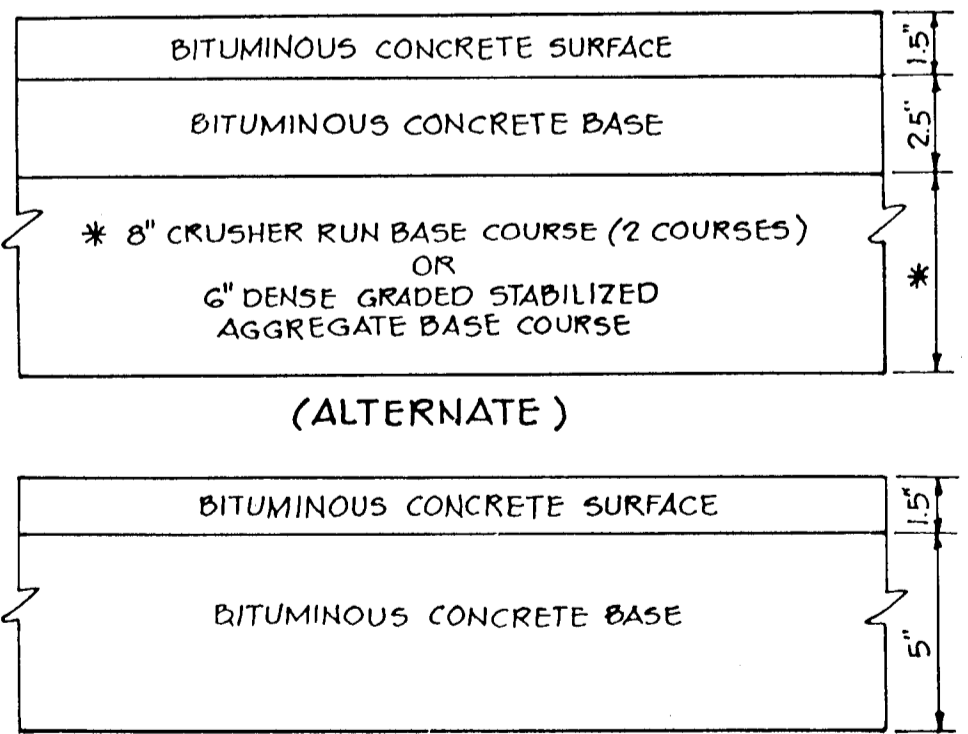
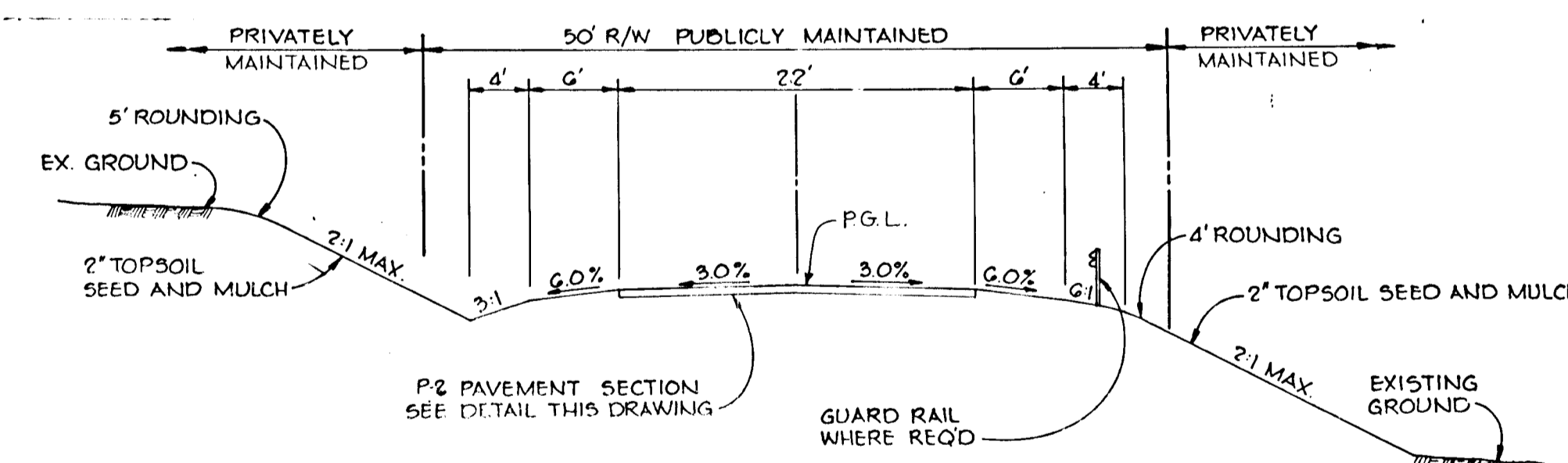
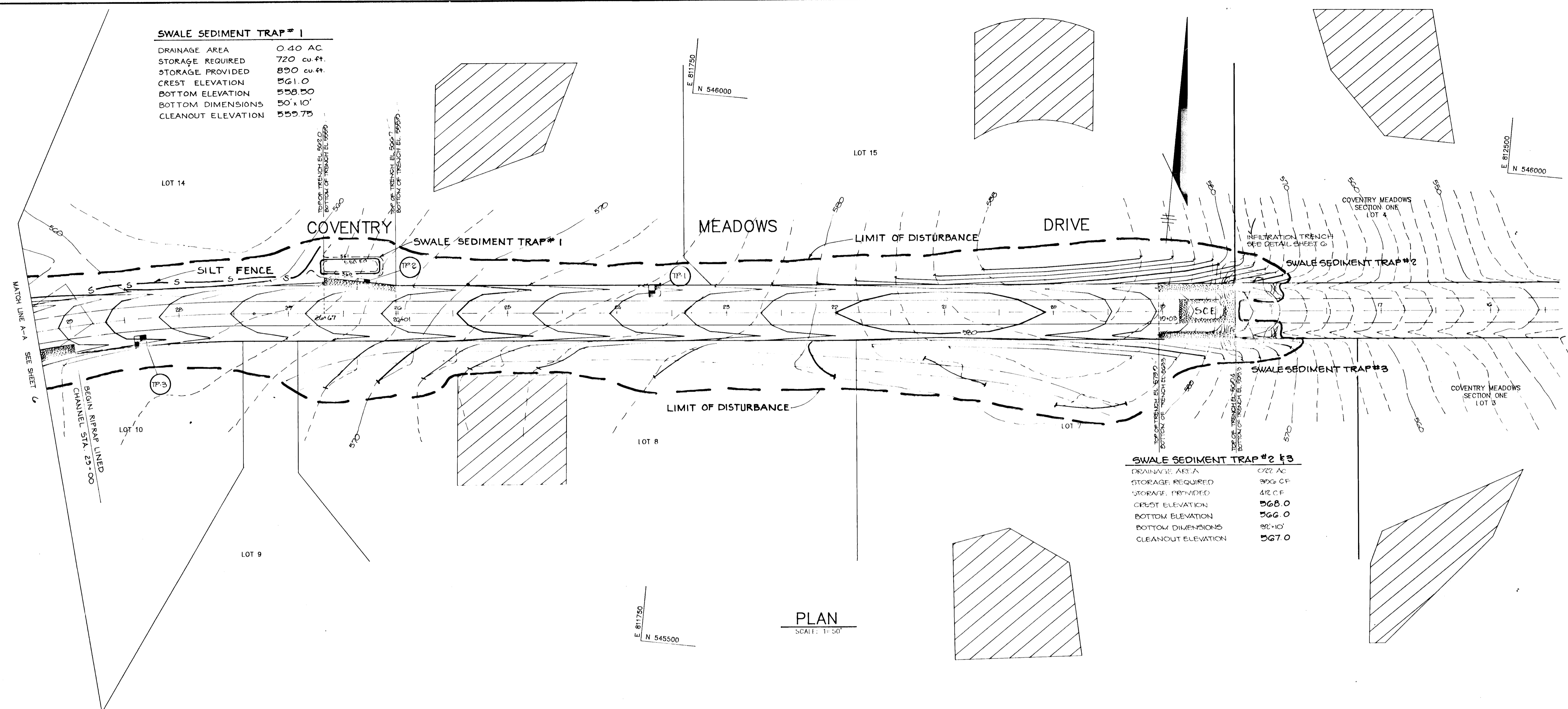
MARYLAND BLUEPRINT CO. INC. 10280

SWALE SEDIMENT TRAP #1

DRAINAGE AREA	0.40 AC
STORAGE REQUIRED	720 cu. ft.
STORAGE PROVIDED	890 cu. ft.
CREST ELEVATION	561.0
BOTTOM ELEVATION	558.50
BOTTOM DIMENSIONS	50' x 10'
CLEANOUT ELEVATION	559.75

SWALE SEDIMENT TRAP #2 & 3

DRAINAGE AREA	0.22 AC
STORAGE REQUIRED	300 CF
STORAGE PROVIDED	412 CF
CREST ELEVATION	568.0
BOTTOM ELEVATION	566.0
BOTTOM DIMENSIONS	82' x 10'
CLEANOUT ELEVATION	567.0



OFFSET CUL-DE-SAC
NO SCALE

CURVE NO. 1	CURVE NO. 2	CURVE NO. 3	CURVE NO. 4	CURVE NO. 5
$\Delta = 31^{\circ}10'13"$	$\Delta = 252^{\circ}10'47"$	$\Delta = 68^{\circ}53'59"$	$\Delta = 257^{\circ}04'56"$	$\Delta = 72^{\circ}04'38"$
$R = 120.00'$	$R = 50.00'$	$R = 25.00'$	$R = 40.00'$	$R = 35.00'$
$T = 33.47'$	$T = 68.59'$	$T = 17.15'$	$T = 50.21'$	$T = 25.46'$
$L = 65.28'$	$L = 220.07'$	$L = 30.06'$	$L = 179.48'$	$L = 44.03'$
$L.C. = 64.48'$		$L.C. = 41.18'$		$L.C. = 28.28'$

AS BUILT CERTIFICATION

ENGINEER JAYKANT PAREKH DATE 5/30/90
 PE # 15148

BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
Jennifer D. Johnson 5/30/90
 DEVELOPER DATE

BY THE ENGINEER:
 "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 L. Meyer 5-30-90
 ENGINEER DATE

REVIEWED FOR HOWARD NAME S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS

James M. Helm 6/6/90
 SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Robertson 6/6/90
 HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Don L. D'Angelo 7/4/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chad M. Stangan 6/29/90
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

Bruce W. Weiland 6/25/90
 CHIEF, BUREAU OF HIGHWAYS DATE

Arthur E. Muegge 7-2-90
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
 THE DICKEY FAMILY % WALTER JOHNSON
 PRUDENTIAL - BACHE SECURITIES
 250 W PRATT STREET BALTIMORE, MARYLAND 21201

PROJECT
COVENTRY MEADOWS
 (SECTION TWO LOTS 7-15)

AREA TAX MAP NO. 9 ZONED R PARCEL 71
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **GRADING, SEDIMENT CONTROL PLAN AND DETAIL SHEET**

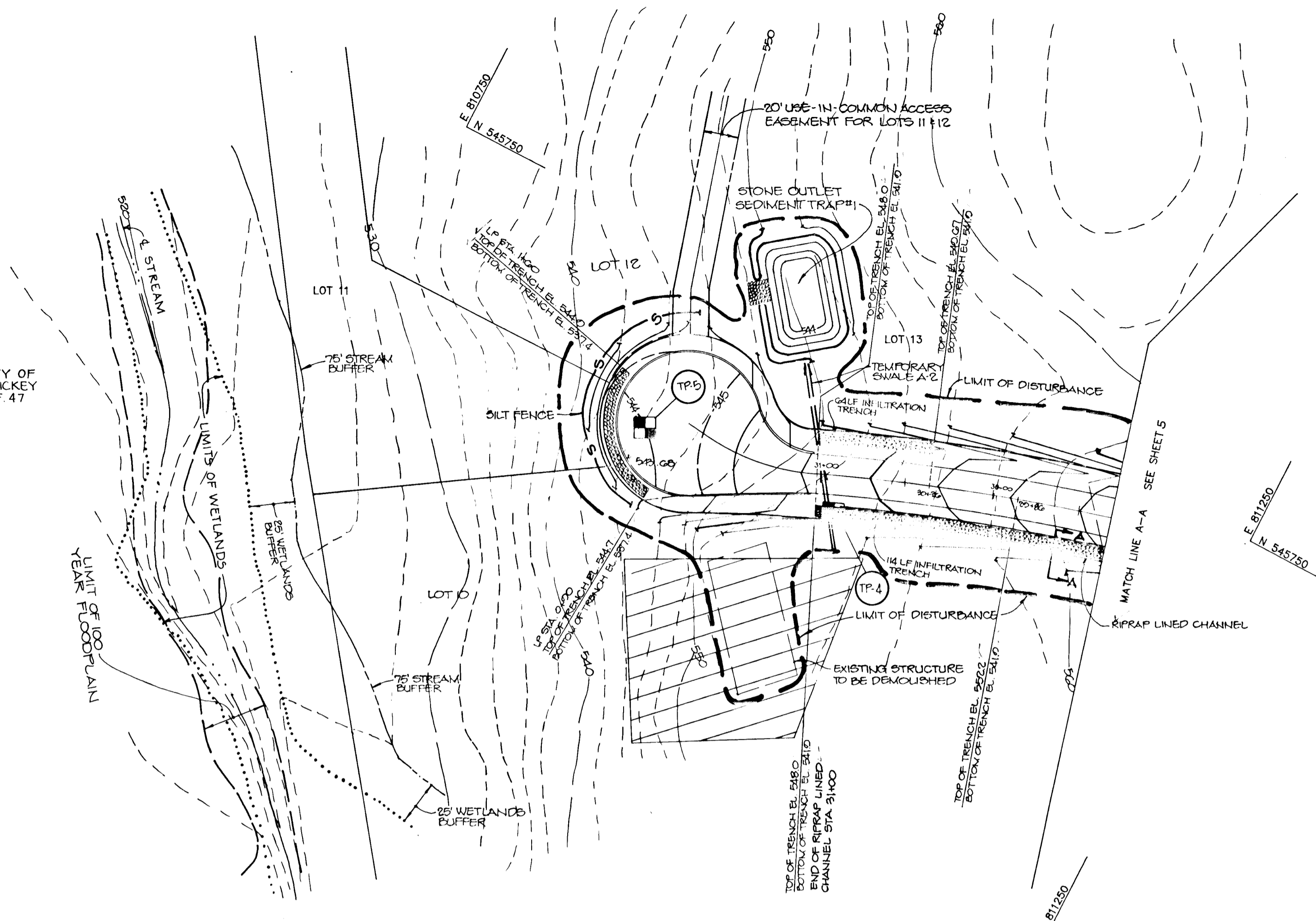
RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

5-30-90 DATE
 5-28-90 6-03-90 6-03-90 6-03-90
 WP-88-100 WP-88-123 WP-88-123

DESIGNED BY: D.A.M.
 DRAWN BY: D.P.S.
 PROJECT NO: 50703
 DATE: MAY 31, 1990
 SCALE: AS SHOWN
 DRAWING NO. 5 OF 6

TOPSOIL	0.0'
REDDISH BROWN MICACEOUS SANDY CLAYEY SILT	0.0' - 4.0'
REDDISH BROWN MICACEOUS SANDY SILT SOME ROCK FRAGMENTS, TRACE DECOMPOSED ROCK	4.0' - 14.0'
TOPSOIL	0.0'
REDDISH BROWN MICACEOUS CLAYEY SANDY SILT	0.0' - 8.0'
REDDISH BROWN MICACEOUS CLAYEY SANDY SILT TRACE ROCK FRAGMENTS	8.0' - 15.0'
REDDISH BROWN MICACEOUS SANDY SILT WITH DECOMPOSED ROCK AND ROCK FRAGMENTS	15.0' - 18.0'
TOPSOIL	0.0'
REDDISH BROWN MICACEOUS SANDY SILT TRACE ROCK FRAGMENTS	0.0' - 1.0'
BROWN MICACEOUS SANDY SILT SOME ROCK FRAGMENTS	1.0' - 4.0'
TOPSOIL	0.0'
BROWN MICACEOUS CLAYEY SANDY SILT FEW ROCK FRAGMENTS	0.0' - 1.5'
BROWN MICACEOUS SANDY SILT FEW ROCK FRAGMENTS	1.5' - 7.0'
TOPSOIL	0.0'
REDDISH BROWN SANDY CLAYEY SILT	0.0' - 1.0'
REDDISH BROWN SANDY SILT W/DECOMPOSED ROCK	1.0' - 8.5'
TOPSOIL	0.0'
REDDISH BROWN SANDY CLAYEY SILT	0.0' - 1.0'
REDDISH BROWN SANDY SILT	1.0' - 8.5'

PROPERTY OF
JEAN R. DICKEY
L.1773 F.47



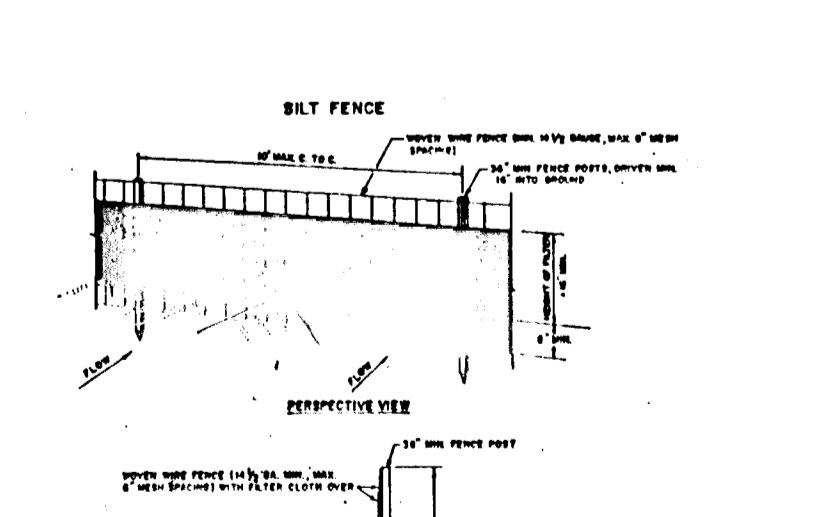
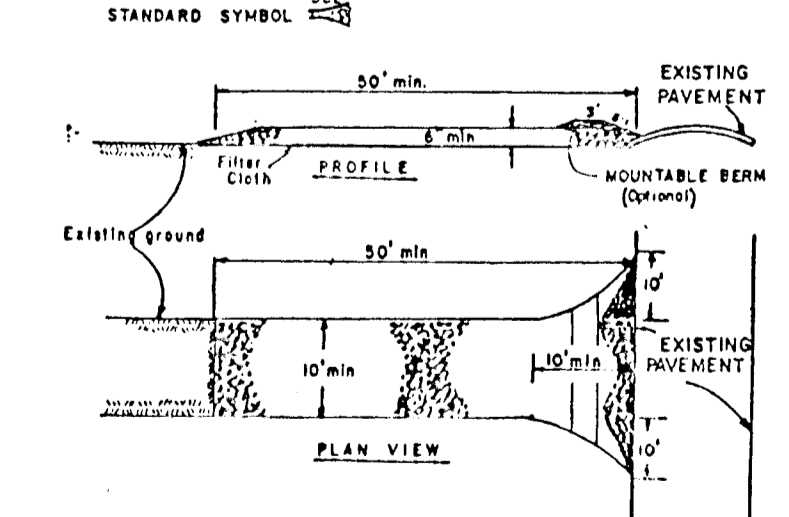
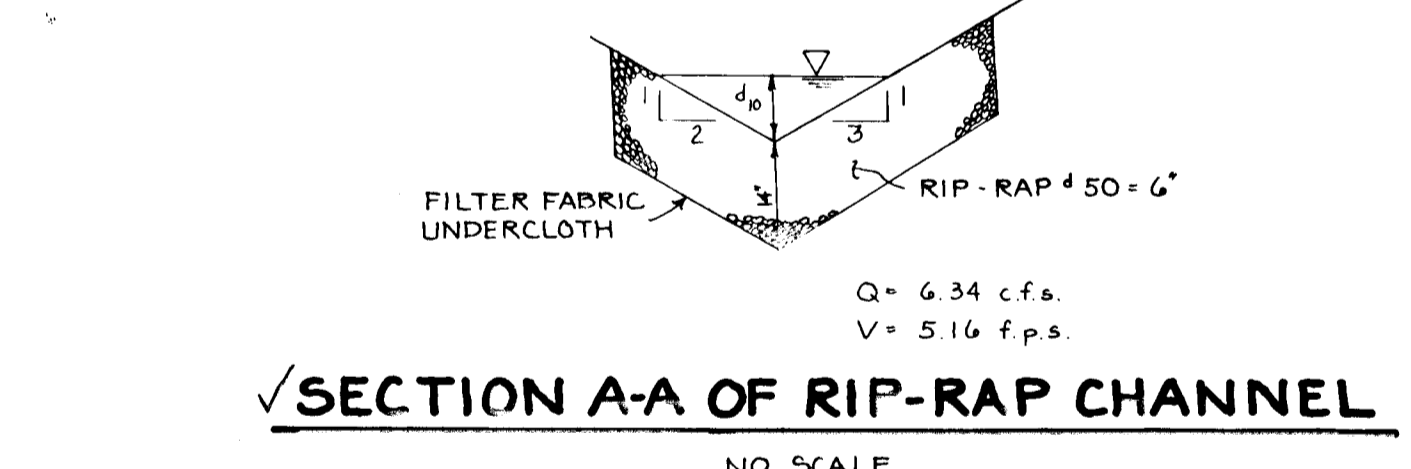
TEST PIT DATA
NO SCALE

NO GROUNDWATER ENCOUNTERED IN ANY TEST PIT. SEE PLAN VIEW SHEETS 54-G FOR TEST PIT LOCATIONS.

STONE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA	3000 AC
STORAGE REQUIRED	5400 Cu Ft
STORAGE PROVIDED	5504 Cu Ft
CREST ELEVATION	540.0
BOTTOM ELEVATION	544.0
BOTTOM DIMENSIONS	40' x 20'
CLEANOUT ELEVATION	546.5
SPILLWAY WIDTH	12'

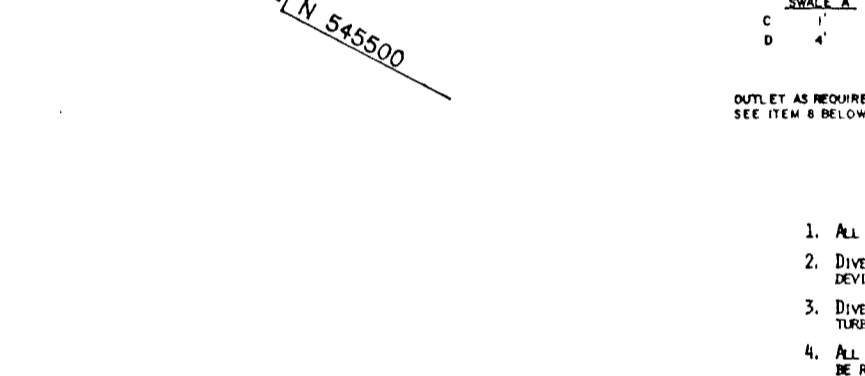
PLAN
SCALE: 1" = 50'



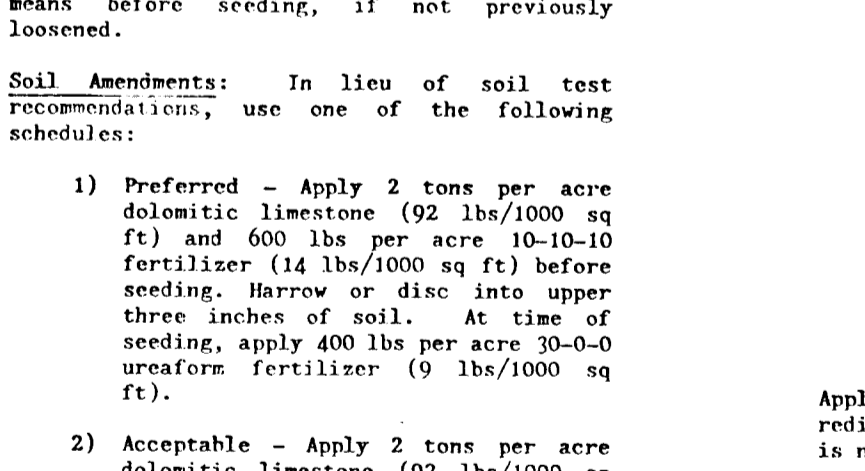
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - One 2" stone, or recycled or recycled concrete equivalent.
 - Layout - As indicated, but not less than 30 feet across on a stable base.
 - Thickness - Not less than 18 inches.
 - Width - Ten (10) feet minimum, but not less than the full width at bottom where drainage or water occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone.
 - Surface Water - All surface water flowing or directed toward construction entrances shall be placed across the entrance. If piping is required, a manhole box with 18" slope will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent periodic top dressing with additional stone as conditions demand and shall include cleaning of any material used to trap sediment. All sediment, silt, gravel, or material shall be removed from public rights-of-way and placed in approved disposal area.
 - Warning - Signs shall be placed to warn adjacent prior to entrance into public rights-of-way. When warning is required, it shall be done on an area stabilized with stone and silt drainage into approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

- CONSTRUCTION NOTES FOR STABILIZED SILT FENCE**
- When stone is placed, it shall be placed in a uniform manner to form a continuous barrier.
 - Filter cloth shall be fastened securely to stone by using 1/2" x 1/2" x 1/2" steel nails.
 - When the silt fence is in place, it shall be inspected to ensure that it is properly installed and functioning.
 - When the silt fence is in place, it shall be inspected to ensure that it is properly installed and functioning.

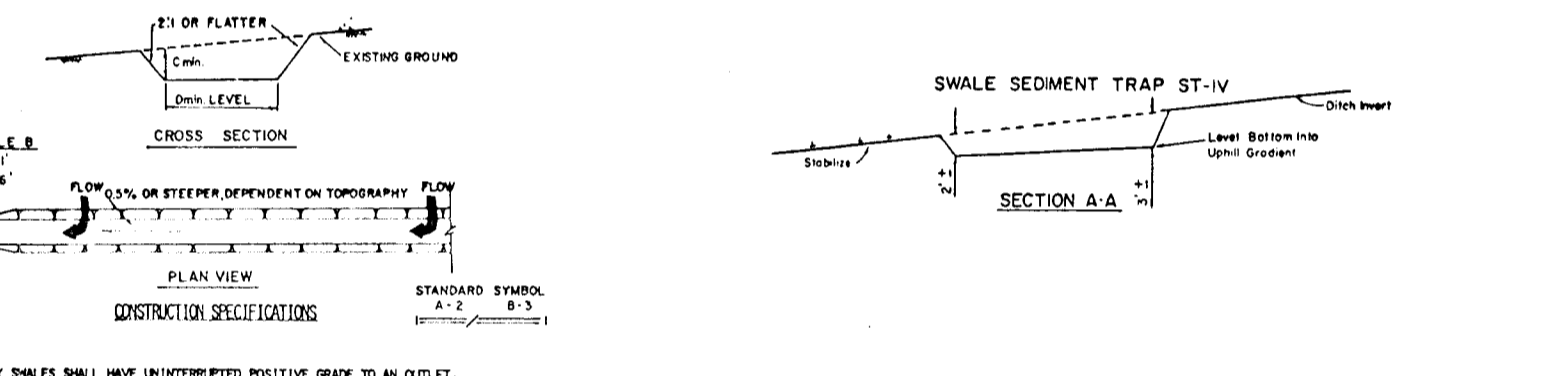
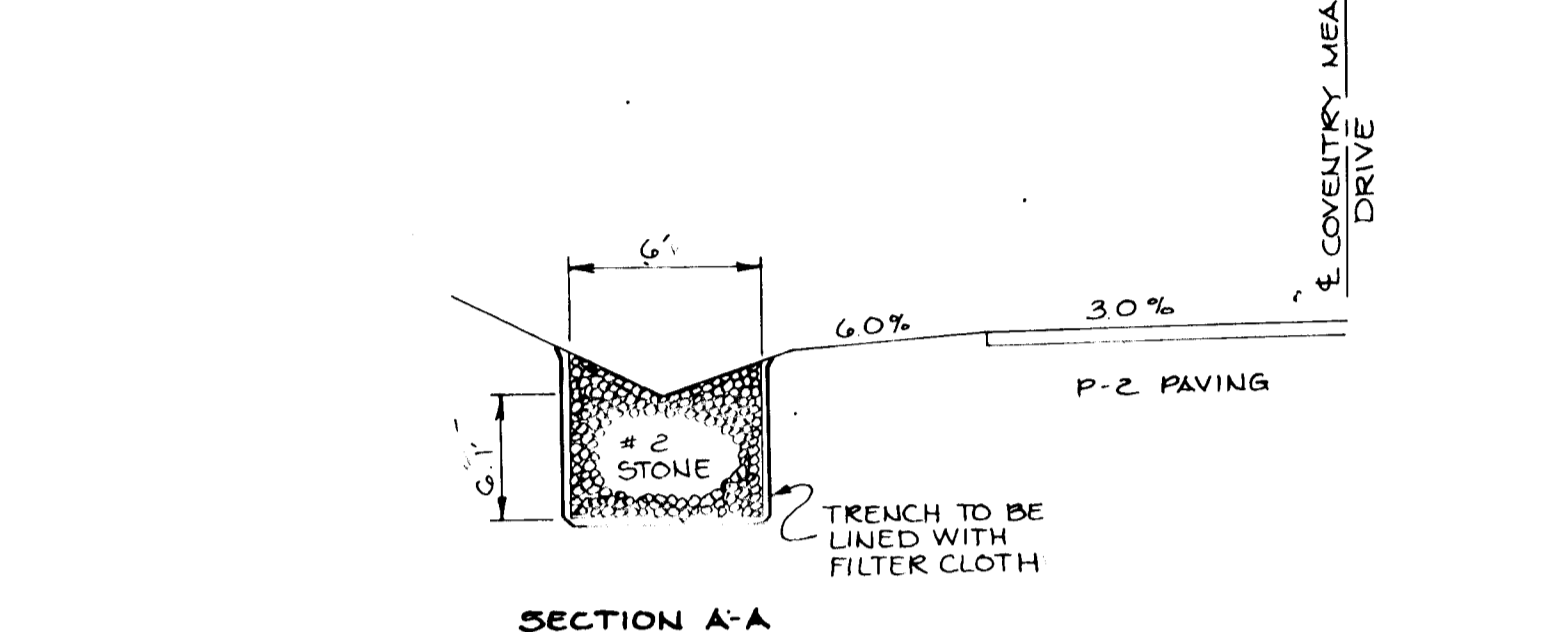
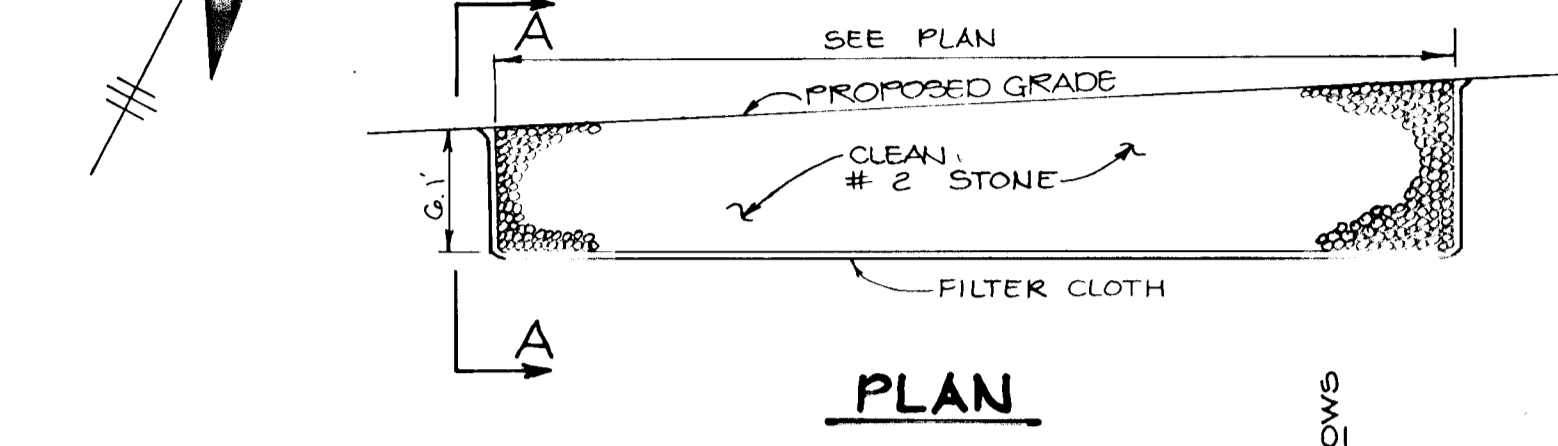
- PERMANENT SEEDING NOTES**
- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules:
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 20-20-20 ureaform fertilizer (9 lbs/1000 sq ft).
 - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.
- Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring. Option (2) use sod. Option (3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well-anchored straw.
- Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unwrapped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseeding.
- Sediment:** will be removed from traps when its depth reaches the clean out elevation shown on the plans.
- Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.



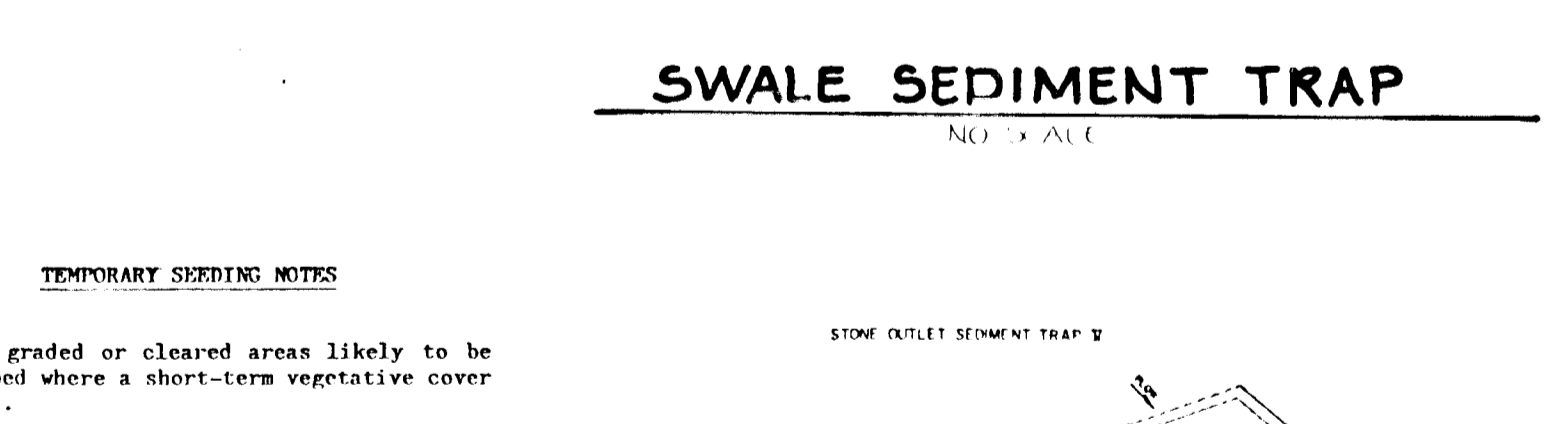
- TEMPORARY SWALE**
NO SCALE
- All temporary swales shall have undisturbed positive grade to an outlet.
 - Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
 - Diverted runoff from an undisturbed area shall outlet directly into an undisturbed area or a non-erosive collector.
 - All trees, shrubs, stumps, obstructions, and other questionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be excavated or scraped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede runoff flow.
 - Fills shall be compacted by earth moving equipment.
 - All earth removal and any needed construction shall be placed so that it will not interfere with the functioning of the swale.
 - Stabilization shall be as per the chart below:
- | TYPE OF SOIL | COVER | ROW COVER STABILIZATION | EST. AC - 30 AC |
|--------------|----------|-----------------------------|-----------------------------|
| 1 | 0.5-3.0" | 1/4" G.C. OR LESS | SEED AND STRAW MULCH |
| 2 | 3.1-5.0" | SEED AND STRAW MULCH | SEED WITH JUTE OR COCOFIBER |
| 3 | 5.1-8.0" | SEED WITH JUTE OR COCOFIBER | SEED WITH JUTE OR COCOFIBER |
| 4 | 8.1-20" | SEED WITH JUTE OR COCOFIBER | ENGINEERED DESIGN |
9. Periodic inspection and needed maintenance must be provided after each rain event.



- CONSTRUCTION SPECIFICATIONS FOR STONE OUTLET SEDIMENT TRAP #2**
- Stone Size - One 2" stone, or recycled or recycled concrete equivalent.
 - Layout - As indicated, but not less than 30 feet across on a stable base.
 - Thickness - Not less than 18 inches.
 - Width - Ten (10) feet minimum, but not less than the full width at bottom where drainage or water occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone.
 - Surface Water - All surface water flowing or directed toward construction entrances shall be placed across the entrance. If piping is required, a manhole box with 18" slope will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent periodic top dressing with additional stone as conditions demand and shall include cleaning of any material used to trap sediment. All sediment, silt, gravel, or material shall be removed from public rights-of-way and placed in approved disposal area.
 - Warning - Signs shall be placed to warn adjacent prior to entrance into public rights-of-way. When warning is required, it shall be done on an area stabilized with stone and silt drainage into approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.



- CONSTRUCTION SPECIFICATIONS FOR SWALE SEDIMENT TRAP**
- The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum capacity necessary (1000 cubic feet of storage for each acre of drainage area).
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removal of sediment shall be done in a manner that does not erode the structure.
 - 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 shall be minimized.
 - The sediment trap shall be removed and area stabilized when the contributing drainage area has been properly stabilized.
 - The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.



- CONSTRUCTION SPECIFICATIONS FOR STONE OUTLET SEDIMENT TRAP #1**
- Stone Size - One 2" stone, or recycled or recycled concrete equivalent.
 - Layout - As indicated, but not less than 30 feet across on a stable base.
 - Thickness - Not less than 18 inches.
 - Width - Ten (10) feet minimum, but not less than the full width at bottom where drainage or water occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone.
 - Surface Water - All surface water flowing or directed toward construction entrances shall be placed across the entrance. If piping is required, a manhole box with 18" slope will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent periodic top dressing with additional stone as conditions demand and shall include cleaning of any material used to trap sediment. All sediment, silt, gravel, or material shall be removed from public rights-of-way and placed in approved disposal area.
 - Warning - Signs shall be placed to warn adjacent prior to entrance into public rights-of-way. When warning is required, it shall be done on an area stabilized with stone and silt drainage into approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

AS BUILT CERTIFICATION

ENGINEER **JAYKANT PAREKH** DATE 1-7-92

PE # 10148

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
Janet D. Johnson 5/30/90 DEVELOPER DATE

BY THE ENGINEER:
"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 C. Muegge 5/30/90 ENGINEER DATE

REVIEWED FOR **HOWARD** NAME S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
James M. Helm/JMR 6/6/90 P.E. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John K. Robinson 6/6/90 HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
David S. Ziegler 7/2/90 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Olga M. Tamm 6/29/90 CHIEF, LAND DEVELOPMENT DIVISION DATE

Brawley W. Wallace 6/25/90 CHIEF, BUREAU OF HIGHWAYS DATE

DATE NO REVISION

OWNER/DEVELOPER
THE DICKEY FAMILY 1/4 WALTER JOHNSON
PRUDENTIAL - BACHE SECURITIES
250 W PRATT STREET BALTIMORE, MARYLAND 21201

PROJECT
COVENTRY MEADOWS
(SECTION TWO LOTS 7-15)

AREA TAX MAP NO 5 ZONE D-R PARCEL 71
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND.

TITLE
GRADING, SEDIMENT CONTROL PLAN AND DETAIL SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Elkridge, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE 5-20-90

DESIGNED BY: D.A.M.
DRAWN BY: D.B.S.
PROJECT NO: 50703
DATE: MAY 21, 1990
SCALE: AS SHOWN
DRAWING NO: 6 OF 6

F-20-71 AS BUILT 12-22-92