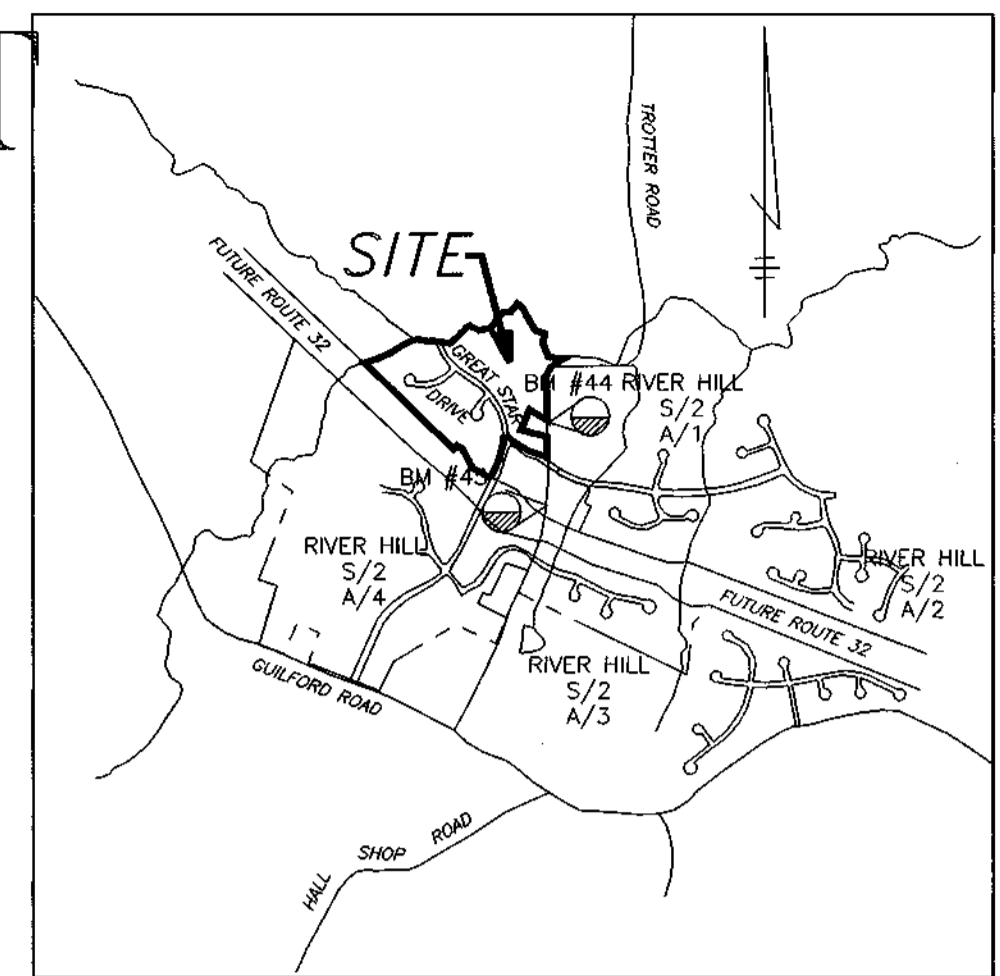


ROADWAYS, STORM DRAINS AND STORMWATER MANAGEMENT

VILLAGE OF RIVER HILL

SECTION 2 AREA 5 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



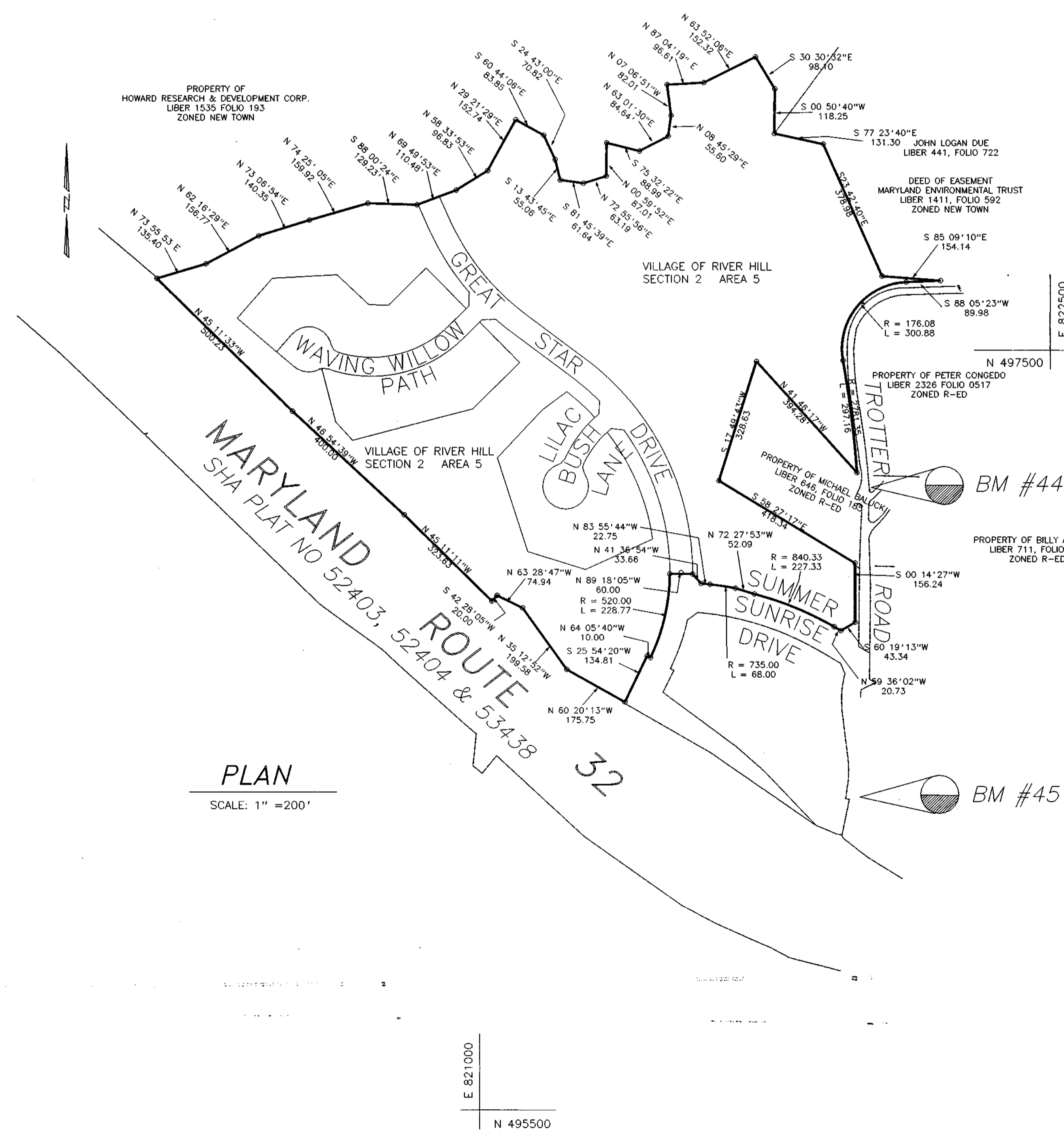
VICINITY MAP
SCALE: 1" = 2000'

BENCHMARKS: PIN & CAP SET EAST TROTTER ROAD
#44 N 497138.9755 ELEV. = 366.949
E 822029.4968
PIN & CAP SET EAST TROTTER ROAD
#45 N 496320.2206 ELEV. = 421.479
E 822000.9112

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE GREAT STAR DRIVE FROM STA 28+98.78 TO 36+50.00
3	PLAN AND PROFILE GREAT STARS DRIVE FROM STA 35+30.00 TO 40+42.00
4	PLAN AND PROFILE LILAC BUSH LANE
5	PLAN AND PROFILE WAVING WILLOW PATH
6	DETAIL SHEET
7	DRAINAGE AREA MAP
8	DRAINAGE AREA MAP
9	GRADING, LANDSCAPE AND SEDIMENT CONTROL PLAN
10	GRADING AND SEDIMENT CONTROL PLAN
11	STORM WATER MANAGEMENT PLAN
12	STORM DRAIN PROFILES
13	STORM DRAIN PROFILES AND STRUCTURE SCHEDULE STRIPING PLAN FOR GREAT STAR DRIVE

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 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. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - BELL TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 OR 3554
 - BALTIMORE GAS AND ELECTRIC CO. 539-8000
 - HOWARD COUNTY BUREAU OF UTILITIES 313-4900
 - COLONIAL PIPELINE 795-1590
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- 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 HOWARD CO. DESIGN CRITERIA, TABLE 2.01 FOR ROADWAYS LESS THAN 600' IN LENGTH.
 - ALL 50' RIGHT OF WAYS 25 MPH
 - ALL 60' RIGHT OF WAYS 40 MPH
- ALL ELEVATIONS SHOWN ARE BASED ON THE USC AND GS MEAN SEA LEVEL DATUM 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION AS DETERMINED BY AASHTO T-180.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED NEW TOWN PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S. S-91-03, P-94-05, FDP PHASE 209 PART 5, WP-95-34 WHICH ALLOWS CONSTRUCTION OF WATER QUALITY FACILITY WITHIN 50' OF STREAM BUFFER & GRADING WITHIN STOCKPILE AREA.
- LIGHT POLES, ARMS, AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME III AND GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, JUNE 1993.
- THE STORMWATER MANAGEMENT FACILITY PROPOSED FOR THIS SITE IS CLASS 'A' HAZARD FACILITY. IN THE EVENT OF A FAILURE OF THE EMBANKMENT, DAMAGE WILL BE LIMITED TO FLOODPLAIN AND OPEN SPACE. WATER QUALITY IS PROVIDED BY SHALLOW MARSH POND SIZED TO STORE 0.5" OF RUNOFF FROM THE ROADWAYS. OVERLAND GRASS & WOODED FILTER STRIPS PROVIDE WATER QUALITY FOR THE ROOFTOP AREAS THAT DON'T DRAIN INTO WATER QUALITY FACILITY. WATER QUANTITY IS PROVIDED BY S.W.M. PONDS LOCATED IN VILLAGE OF RIVER HILL, SECTION 2, AREA 1 AND SECTION 2, AREAS 3 & 4.
- STREET TREES (102 TOTAL) THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 15.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING. TREE LOCATIONS MUST PROVIDE 20' CLEARANCE OF ANY STREET LIGHT AND 5' CLEARANCE OF ALL STORM DRAINS.
- TOPOGRAPHY SHOWN HEREON IS FROM AERIAL MAPS FLOWN IN 1989 BY MAPPING ASSOCIATES, INC.
- PUBLIC WATER AND SEWER SYSTEMS AS PER CONTRACT NO. 34-3336-D AND ARE TO BE UTILIZED FOR THIS SITE. SEWER SERVICE DRAINAGE AREA: MIDDLE PATUXENT.
- THE 100 YEAR FLOODPLAIN STUDY WAS PREPARED BY WHITMAN REQUARDT AND ASSOCIATES AND WAS APPROVED UNDER S-91-03 ON 12-17-91; IT WAS REVISED BY GEORGE W. STEPHENS JR. & ASSOCIATES, INC. ON 9-15-94.
- WETLANDS DELINEATION IS PROVIDED BY GEO-TECHNOLOGY ASSOC., INC. AND WAS APPROVED BY ARMY CORPS OF ENGINEERS ON 9-20-93.
- TRAFFIC STUDY WAS PREPARED BY GOROVE/SLADE ASSOCIATES AND WAS APPROVED UNDER S-91-03 ON 12-17-91.
- NOISE STUDY WAS PREPARED BY STAIANO ENGINEERING, INC. AND APPROVED UNDER P-92-13 AND P-92-15 ON 6-26-92 AND 1-6-93, RESPECTIVELY.
- GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT FOR THIS PROJECT WAS PROVIDED BY THE ROBERT BALTER COMPANY.
- BOUNDARY SURVEY WAS PREPARED BY KCI, INC., AUGUST 28, 1991.
- ALL STREET LIGHTS SHALL BE LOCATED BETWEEN 2'-0" AND 4'-0" BEHIND FACE OF CURB.
- THE COORDINATES SHOWN HEREON ARE BASED ON NAD 27, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY MONUMENT NO. 2337001, 2337002 AND 2437003.
- ALL PROPOSED EASEMENTS SHOWN ON SECTION 2 AREA 5 WILL BE RECORDED AS PART OF THE RECORD PLATS FOR THAT SUBDIVISION.
- WETLANDS DISTURBANCE AS SHOWN ON THESE PLANS TO BE PERFORMED IN ACCORDANCE WITH MARYLAND DEPARTMENT OF NATURAL RESOURCES PERMIT NO. 94-NT-1021/19956262 AND MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER QUALITY CERTIFICATION NO. 94-0453.
- SIDEWALKS AND SIDEWALK RAMPS SHALL MEET CURRENT ADA REQUIREMENTS.

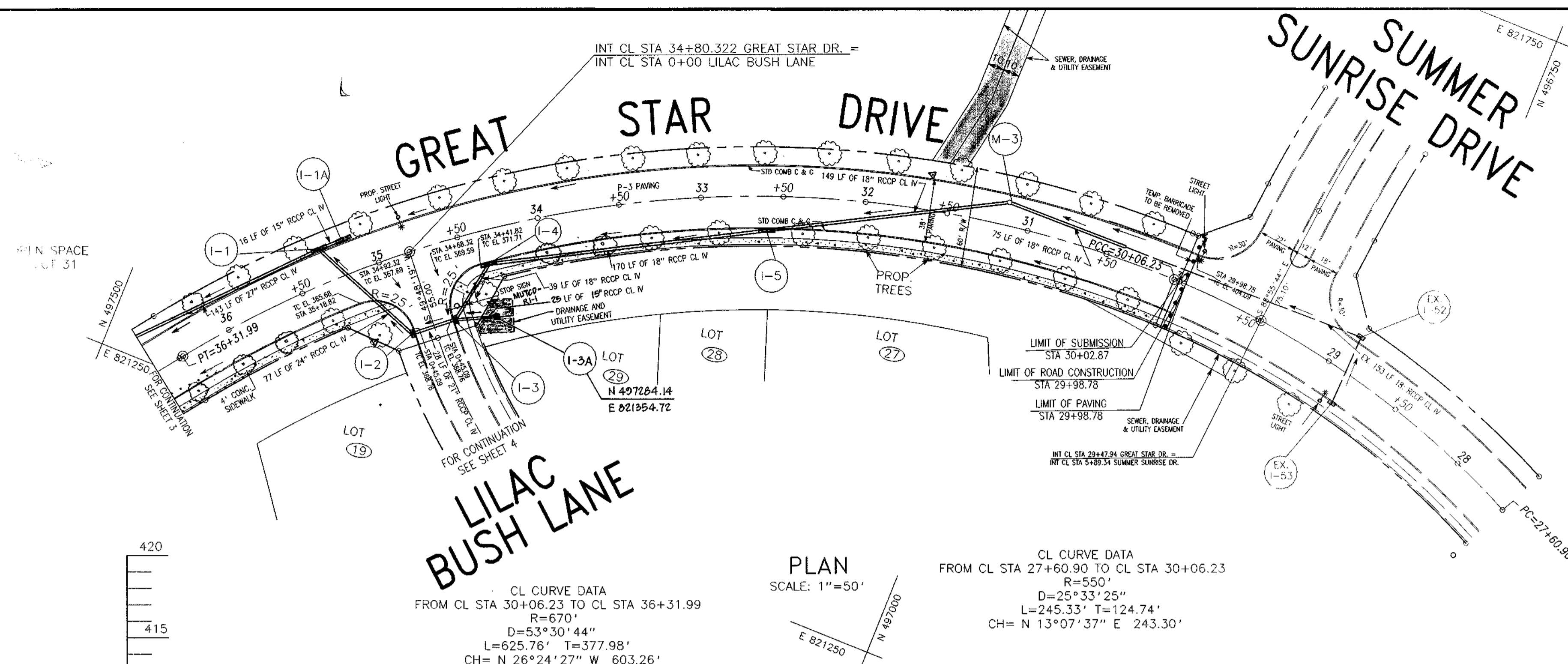


PLAN
SCALE: 1" = 200'

AS BUILT CERTIFICATE	
DATE	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	7/25/95
<i>Gina Summarij</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	7/20/95
<i>Robert J. Sauer</i> CHIEF, LAND DEVELOPMENT DIVISION	DATE
<i>Richard M. Daniels</i> CHIEF, BUREAU OF HIGHWAYS	7-14-95
<i>Richard J. Sauer</i> CHIEF, BUREAU OF ENGINEERING	7/20/95
DATE NO.	REVISION
OWNER/DEVELOPER	THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044
PROJECT	VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31
AREA	TAX MAP NO. 35 ZONED NEW TOWN PART OF PARCELS 59 & 22 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, SUITE 100 TOWSON, MARYLAND 21284 (410) 825-8120	
5-24-95 DATE	S-91-03 WP-95-34 P-94-05
DESIGNED BY: I.Z./M.B.B.	
DRAWN BY: M.B.B.	
PROJECT NO.: 7458	
DATE: JANUARY 25, 1995	
SCALE: AS SHOWN	
DRAWING NO. 1 OF 13	
F-95-48	

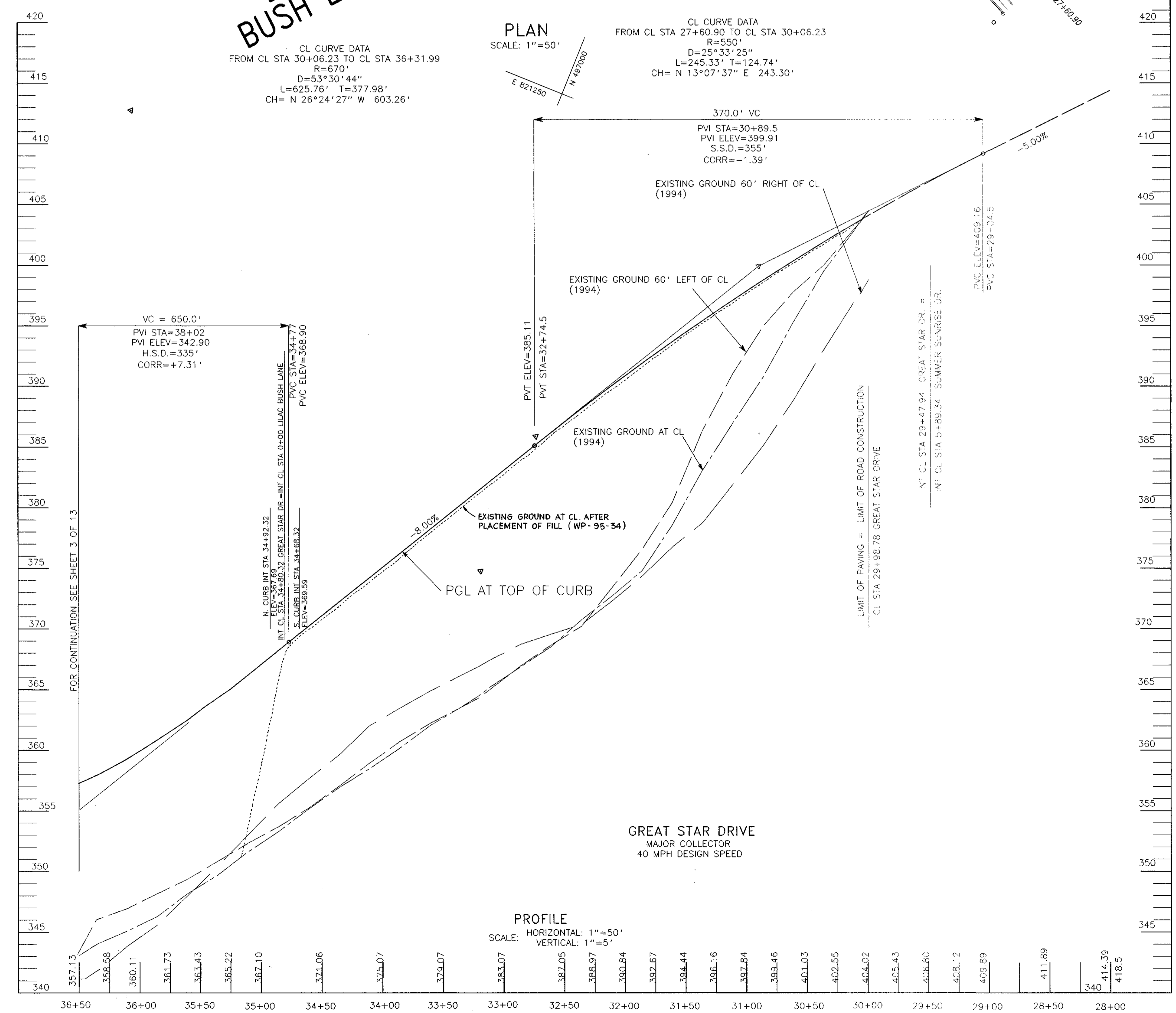
1487

F-95-48



CL CURVE DATA
 FROM CL STA 30+06.23 TO CL STA 36+31.99
 R=670'
 D=53°30'44"
 L=625.76' T=377.98'
 CH= N 26°24'27" W 603.26'

CL CURVE DATA
 FROM CL STA 27+60.90 TO CL STA 30+06.23
 R=550'
 D=25°33'25"
 L=245.33' T=124.74'
 CH= N 13°07'37" E 243.30'



LIGHTING SCHEDULE

STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
GREAT STAR DRIVE	34+80	22' RIGHT	150 WATT HPS PENDANT FIXTURE (BRONZE) MOUNTED AT 30 FEET ON A BRONZE ALUMINUM POLE.

NOTE: NO TREES ARE TO BE PLACED WITHIN 20' OF A STREET LIGHT.

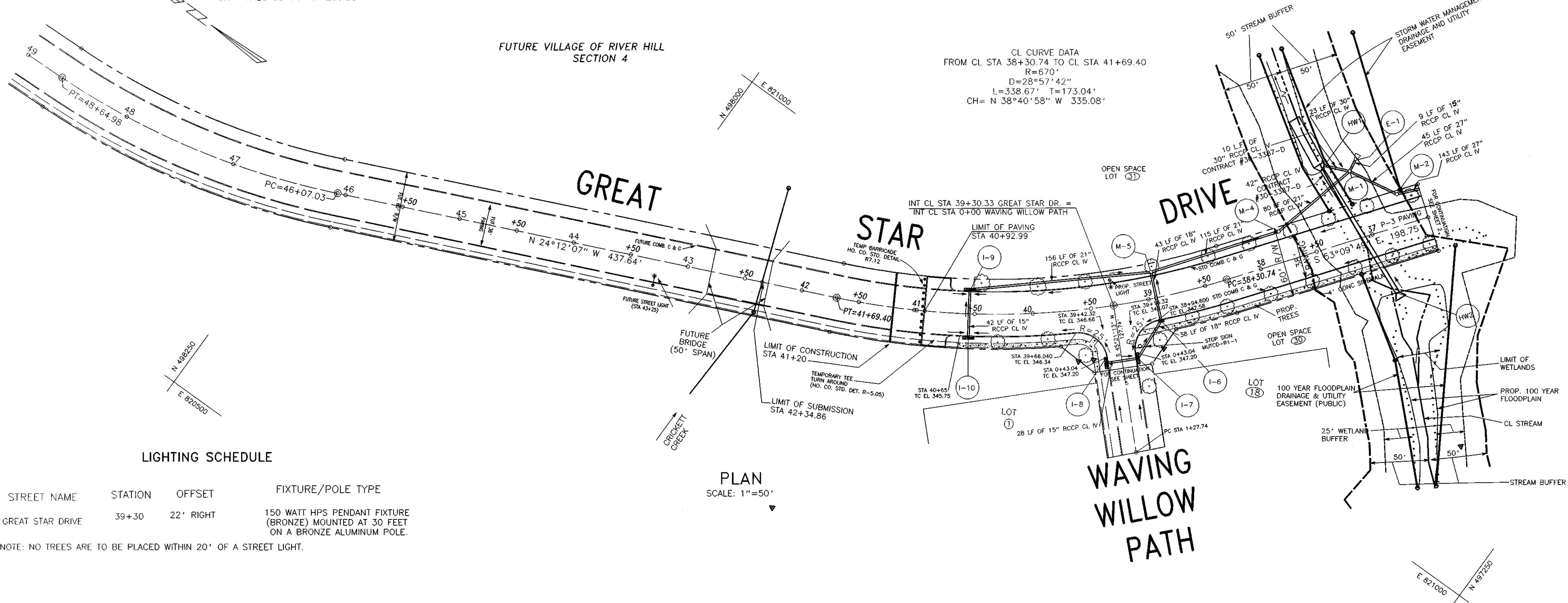
AS BUILT CERTIFICATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE
<i>Jina Srivastava</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	7/25/95 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE
<i>Mr. [Signature]</i> CHIEF, LAND DEVELOPMENT DIVISION	7/20/95 DATE
<i>Richard M. [Signature]</i> CHIEF, BUREAU OF HIGHWAYS	7-19-95 DATE
<i>Paul [Signature]</i> CHIEF, BUREAU OF ENGINEERING	7/20/95 DATE
DATE	REVISION
OWNER/DEVELOPER	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
PROJECT	
VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31	
AREA	
TAX MAP NO. 35 ZONED NEW TOWN PART OF PARCELS 59 AND 22 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
PLAN AND PROFILE GREAT STAR DRIVE FROM STA 29+98.78 TO 36+50	
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, SUITE 100 TOWSON, MARYLAND 21284 (410) 825-8120	
DATE	S-91-03 WP-95-34 P-94-05
DESIGNED BY: I.Z./M.B.B.	
DRAWN BY: M.B.B.	
PROJECT NO.: 7458	
DATE: JANUARY 25, 1995	
SCALE: AS SHOWN	
NAME	DRAWING NO. 2 OF 13

1487

CL CURVE DATA
 FROM CL STA 46+07.03 TO CL STA 48+64.98
 R=670'
 D=22°03'33"
 L=257.95' T=130.59
 CH = N 28°58'14" W 256.36'

FUTURE VILLAGE OF RIVER HILL
 SECTION 4

CL CURVE DATA
 FROM CL STA 38+30.74 TO CL STA 41+69.40
 R=670'
 D=28°57'42"
 L=338.67' T=173.04'
 CH = N 38°40'58" W 335.08'

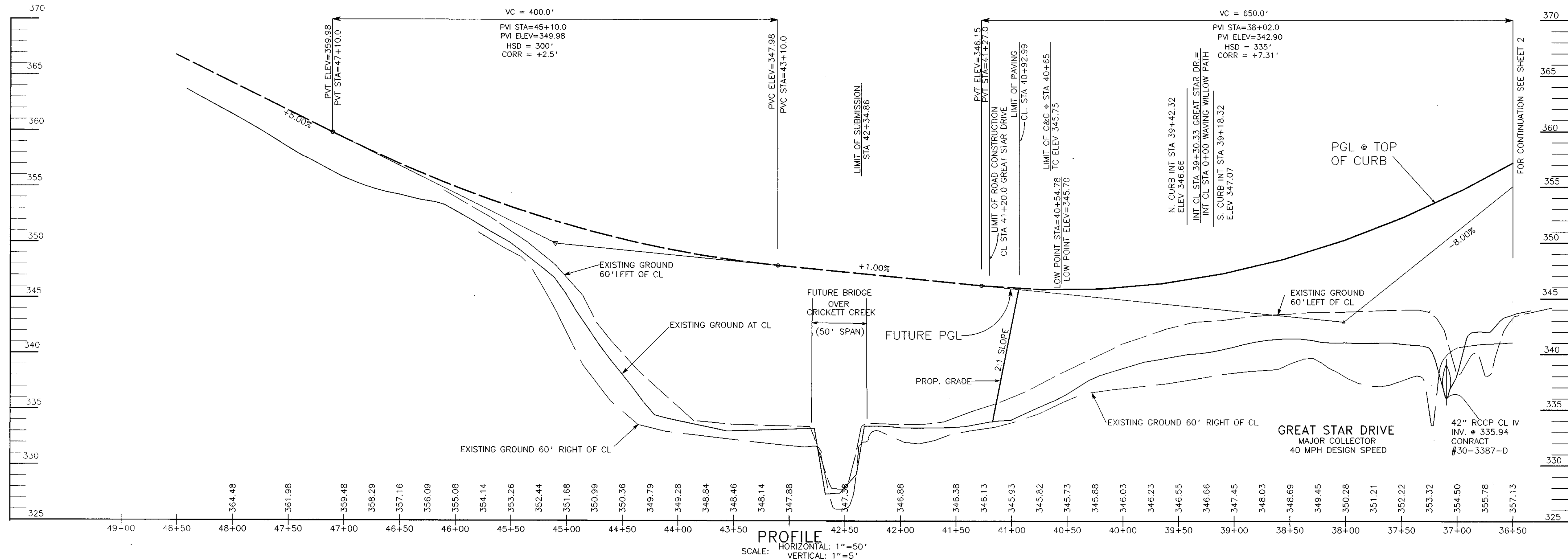


LIGHTING SCHEDULE

STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
GREAT STAR DRIVE	39+30	22' RIGHT	150 WATT HPS PENDANT FIXTURE (BRONZE) MOUNTED AT 30 FEET ON A BRONZE ALUMINUM POLE.

NOTE: NO TREES ARE TO BE PLACED WITHIN 20' OF A STREET LIGHT.

PLAN
 SCALE: 1"=50'



PROFILE
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

AS BUILT CERTIFICATE

DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Shimmangi 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chris Dammann 7/26/95
 CHIEF, LAND DEVELOPMENT DIVISION

Robert M. Daniels 7-19-95
 CHIEF, BUREAU OF HIGHWAYS

Charles J. Payne 7/20/95
 CHIEF, BUREAU OF ENGINEERING

DATE NO. _____ REVISION _____

OWNER/DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

PROJECT **VILLAGE OF RIVER HILL**
 SECTION 2 AREA 5
 LOTS 1 - 31

AREA TAX MAP NO. 35 ZONED NEW TOWN
 PART OF PARCELS 59 AND 22
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **PLAN AND PROFILE**
GREAT STAR DRIVE
 FROM STA 36+50 TO STA 40+47

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 658 KENILWORTH DRIVE, SUITE 100
 TOWSON, MARYLAND 21284
 (410) 825-8120

DATE _____

S-91-03 WP-95-34
 P-94-05

DESIGNED BY: I.Z./M.B.B.

DRAWN BY: M.B.B.

PROJECT NO.: 7458

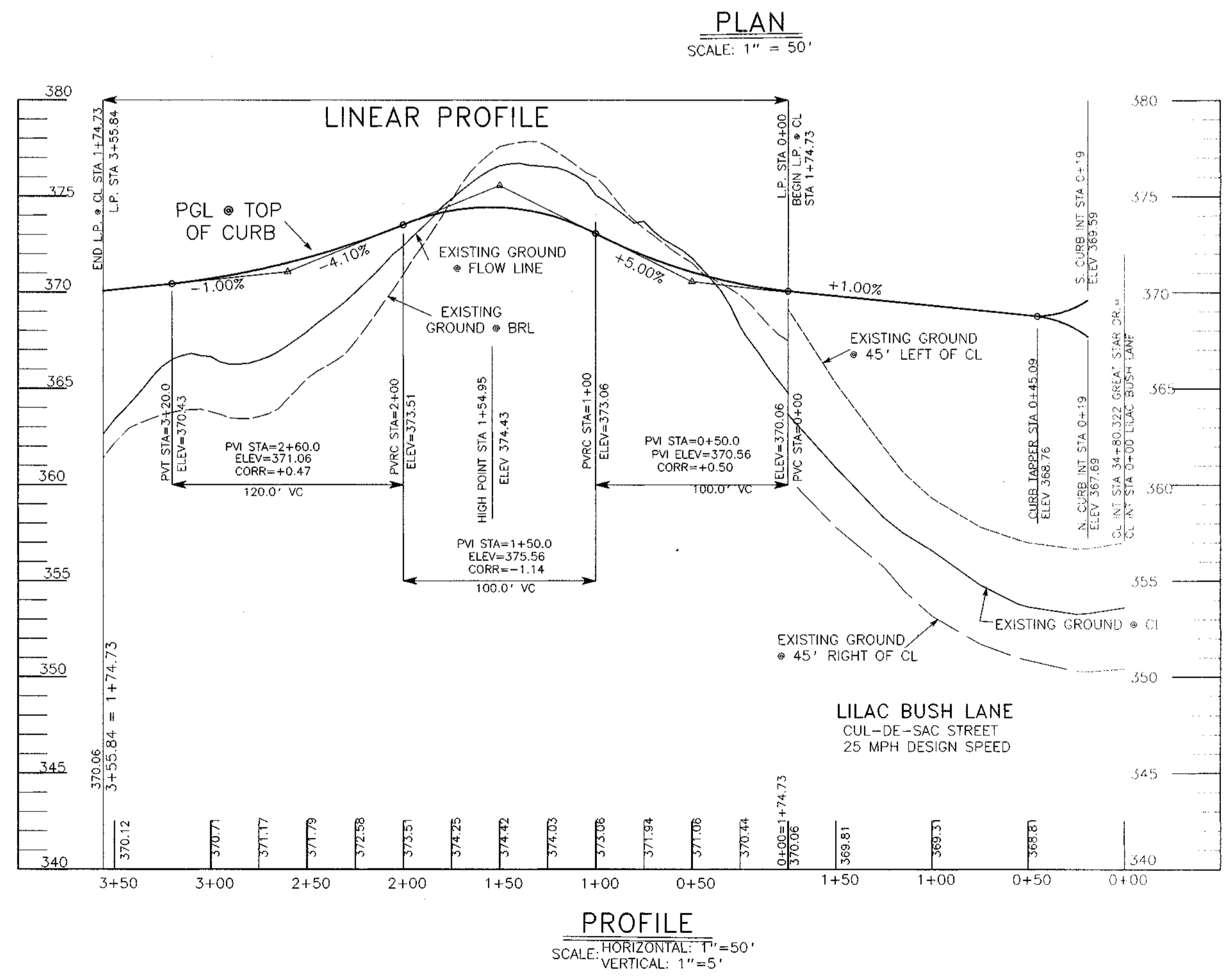
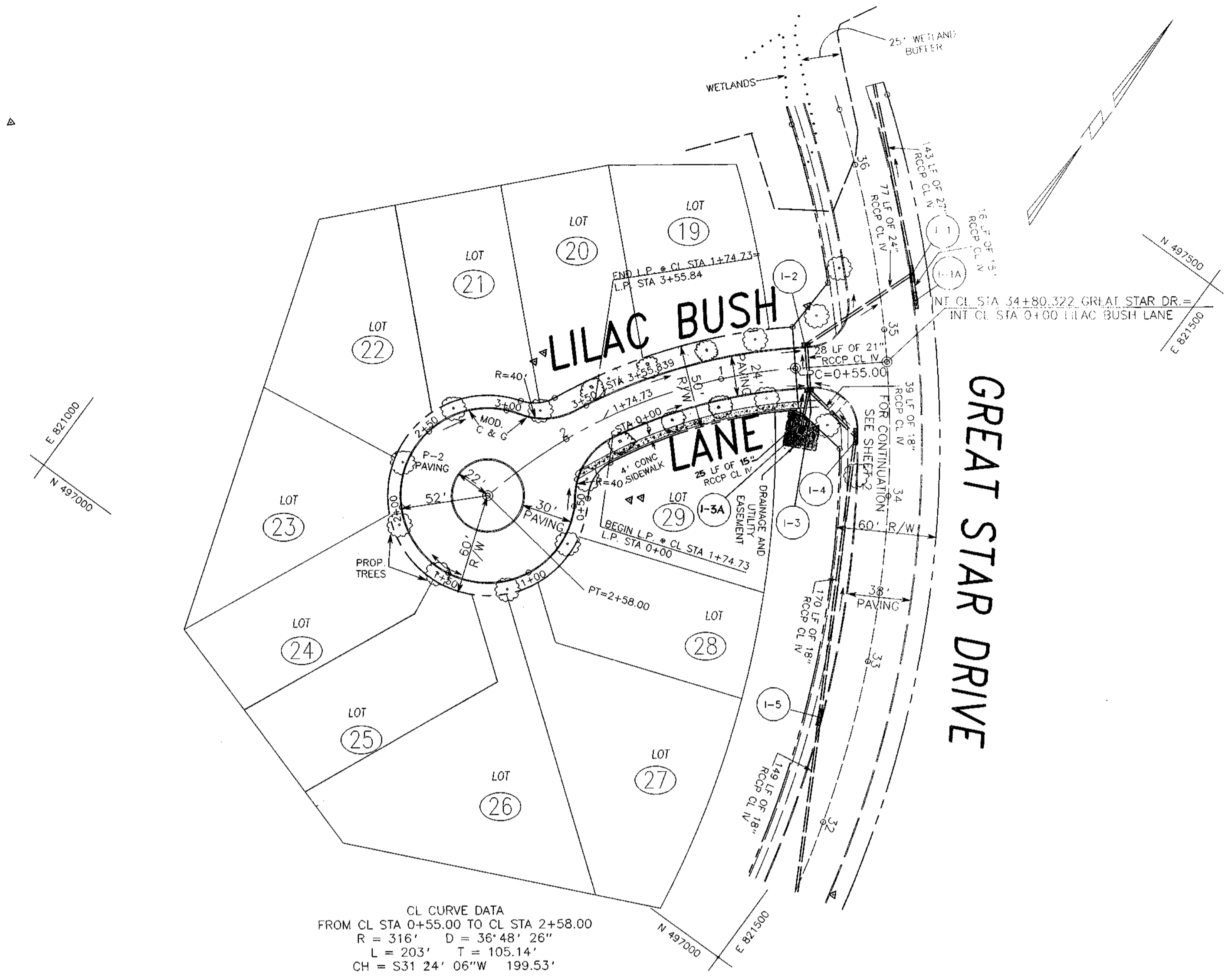
DATE: JANUARY 25, 1995

SCALE: AS SHOWN

DRAWING NO. 3 OF 13

NAME _____

1487



AS BUILT CERTIFICATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE
<i>Gina Swinamy</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	7/25/95 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Abdoun</i> CHIEF, LAND DEVELOPMENT DIVISION	7/20/95 DATE
<i>Andrew M. Daniels</i> CHIEF, BUREAU OF HIGHWAYS	7-14-95 DATE
<i>Rudolf J. ...</i> CHIEF, BUREAU OF ENGINEERING	7/20/95 DATE
DATE NO.	REVISION
OWNER/DEVELOPER	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
PROJECT VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31	
AREA TAX MAP NO. 35 ZONED NEW TOWN PART OF PARCELS 59 AND 22 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE PLAN AND PROFILE LILAC BUSH LANE	
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, SUITE 100 TOWSON, MARYLAND 21204 (410) 825-8120	
DATE	S-91-03 WP-05-34 P-94-05
DESIGNED BY: I.Z./M.B.B.	
DRAWN BY: M.B.B.	
PROJECT NO.: 7458	
DATE: JANUARY 25, 1995	
SCALE: AS SHOWN	
NAME	DRAWING NO. 4 OF 13

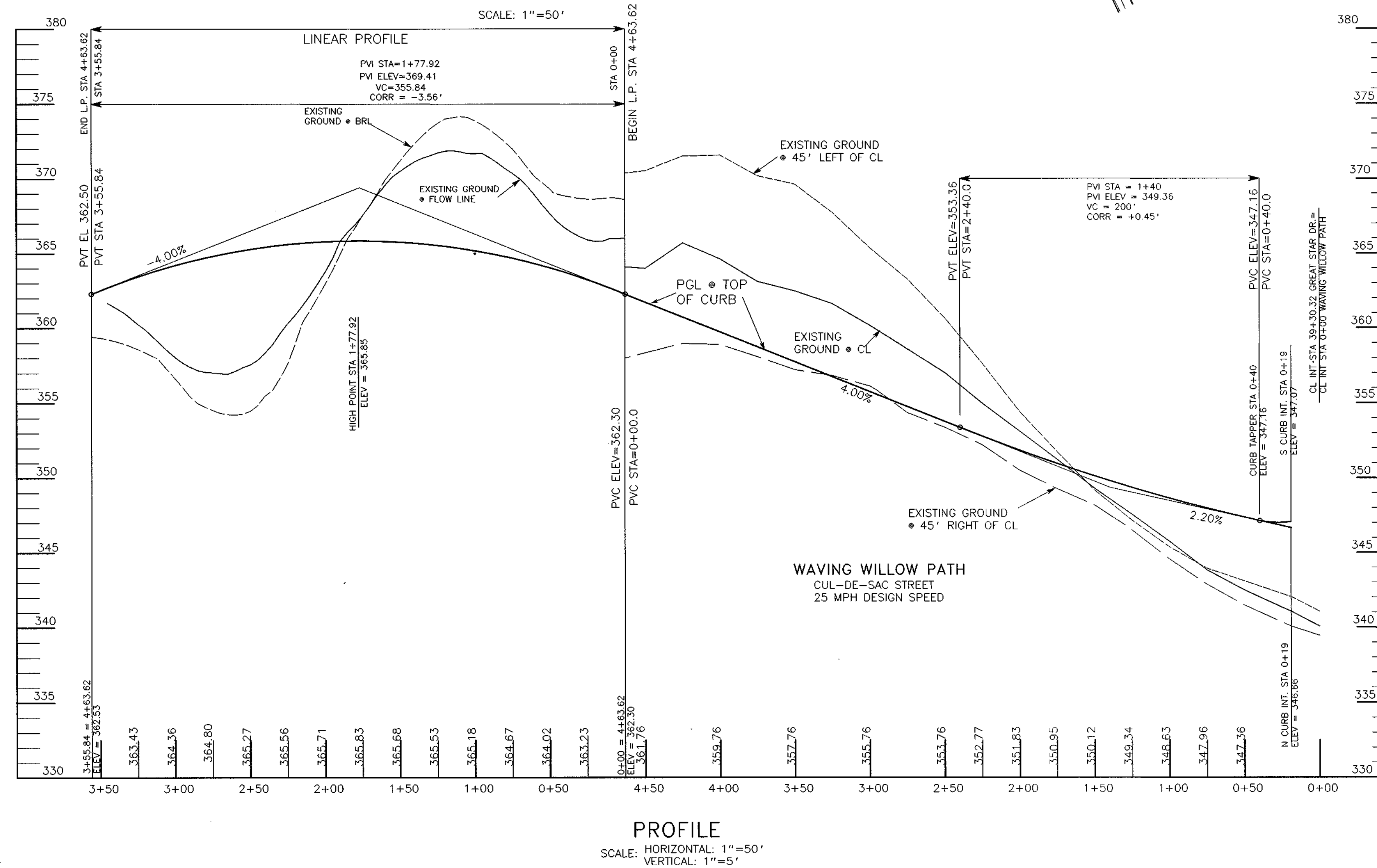
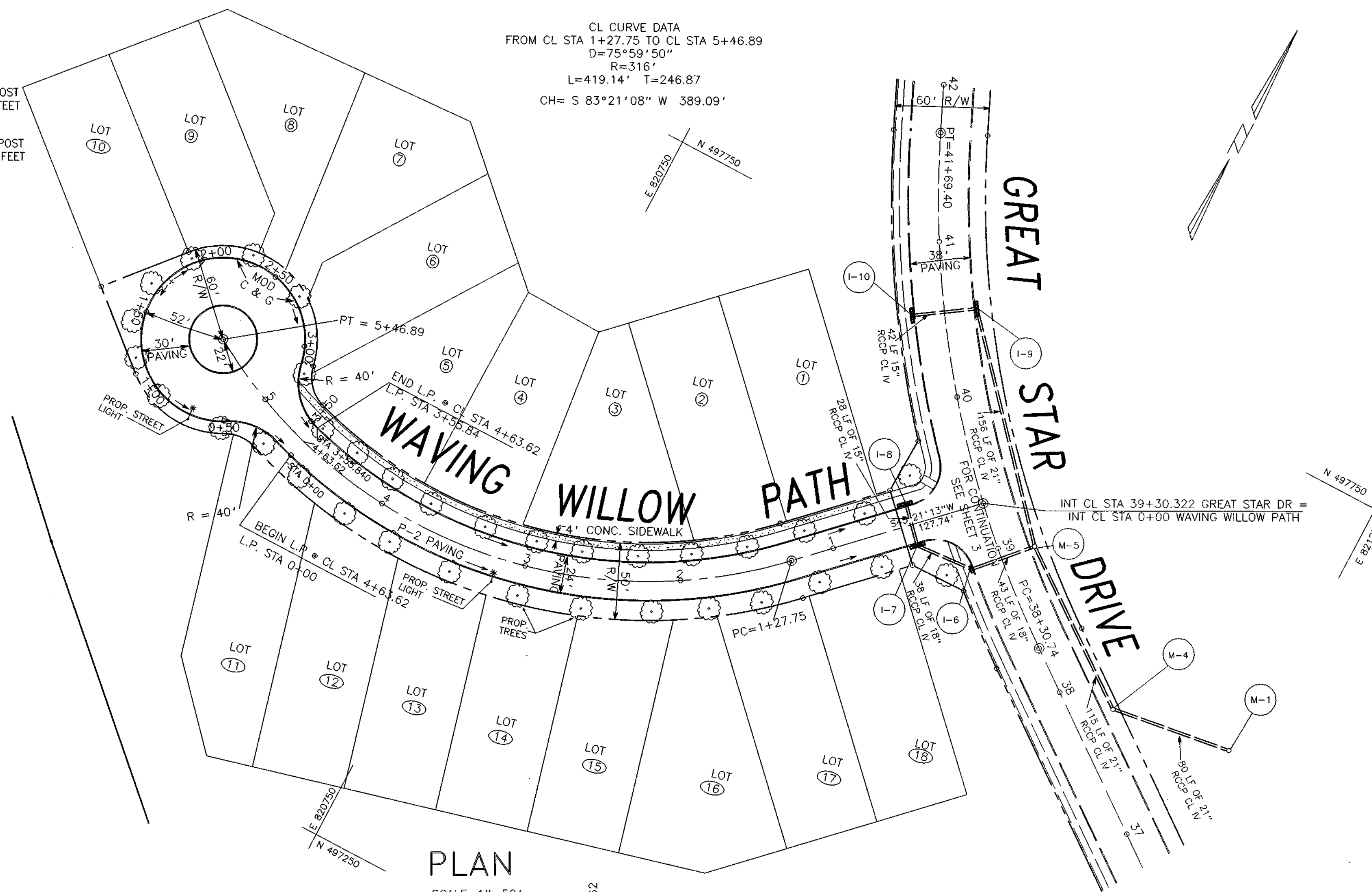
1487

LIGHTING SCHEDULE

STREET NAME	STATION	OFFSET	FIXTURE/POLE TYPE
WAVING WILLOW PATH	4+19	15' LEFT OF CL.	100 WATT HPS VAPOR MODERN POST TOP (BRONZE) MOUNTED ON 14 FEET FIBERGLASS POLE.
LINEAR PROFILE	STA 0+75	3' LEFT OF CURB	100 WATT HPS VAPOR MODERN POST TOP (BRONZE) MOUNTED ON 14 FEET FIBERGLASS POLE.

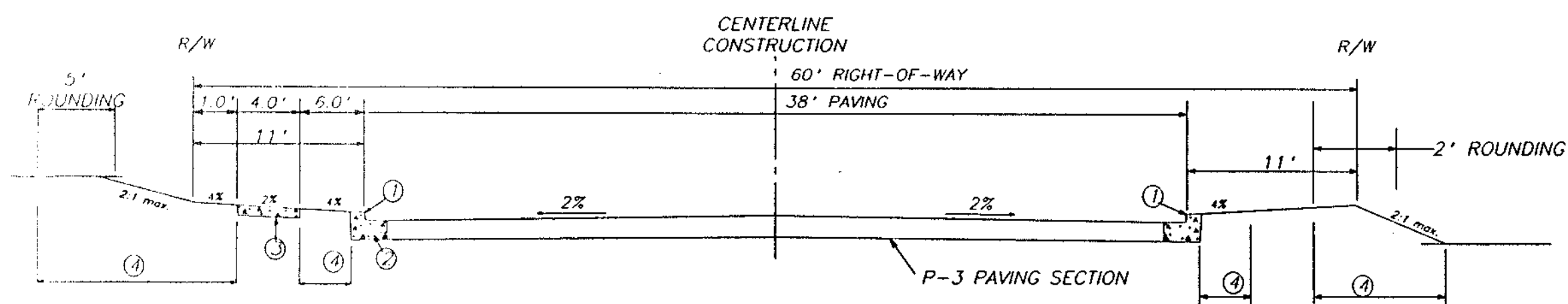
NOTE: NO TREES ARE TO BE PLACED WITHIN 20' OF A STREET LIGHT.

CL CURVE DATA
 FROM CL STA 1+27.75 TO CL STA 5+46.89
 $D=75^{\circ}59'50''$
 $R=316'$
 $L=419.14'$ $T=246.87'$
 $CH= S 83^{\circ}21'08'' W 389.09'$



AS BUILT CERTIFICATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE: 7/25/95
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
CHIEF, LAND DEVELOPMENT DIVISION	DATE: 7/20/95
CHIEF, BUREAU OF HIGHWAYS	DATE: 7-14-95
CHIEF, BUREAU OF ENGINEERING	DATE: 7/20/95
OWNER/DEVELOPER	THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044
PROJECT	VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31
AREA	TAX MAP NO. 35 ZONED NEW TOWN PART OF PARCELS 59 AND 22 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	PLAN AND PROFILE WAVING WILLOW PATH
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, SUITE 100 TOWSON, MARYLAND 21204 (410) 825-8120	
DATE	S-91-03 WP-95-34 P-94-05
DESIGNED BY:	I.Z./M.B.B.
DRAWN BY:	M.B.B.
PROJECT NO.:	7458
DATE:	JANUARY 25, 1995
SCALE:	AS SHOWN
NAME	DRAWING NO. 5 OF 13

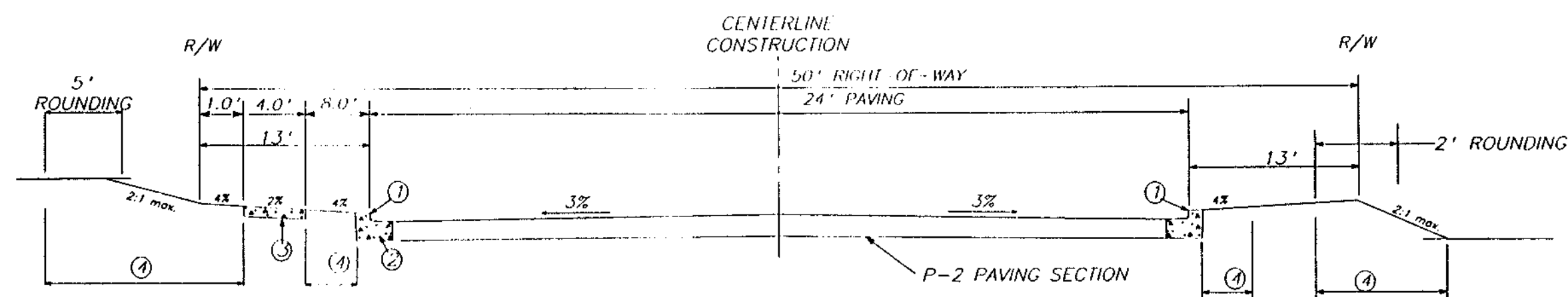
1487



- ① PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL
- ② STANDARD COMBINATION CURB AND GUTTER
- ③ 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- ④ INDICATES 2" TOPSOIL, SEED AND MULCH.
- ⑤ DESIGN SPEED = 40 M.P.H.

TYPICAL SECTION MAJOR COLLECTOR

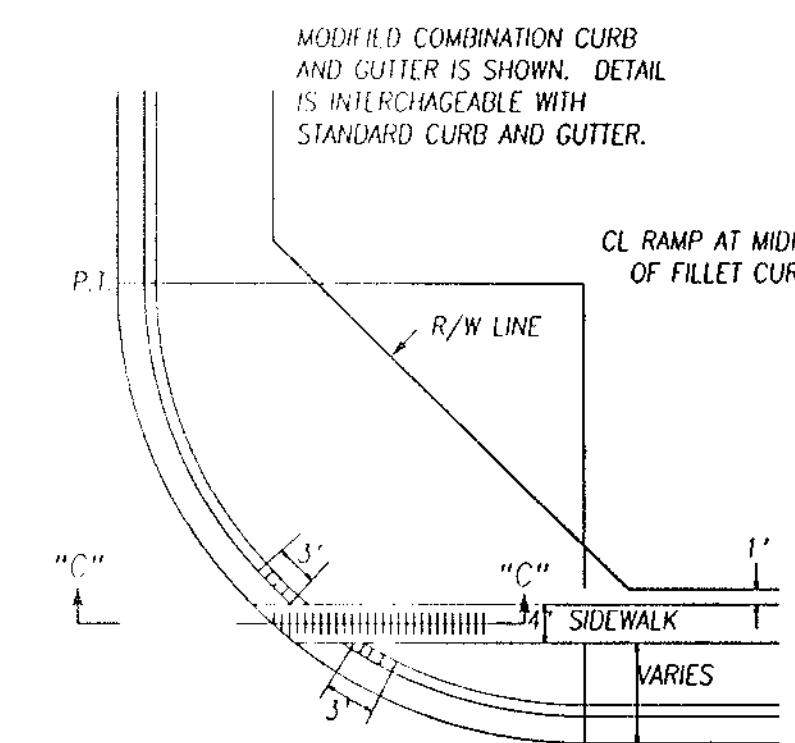
(NO SCALE)
GREAT STAR DRIVE
FROM CL STA 29+98.78 TO CL STA 40+13.66



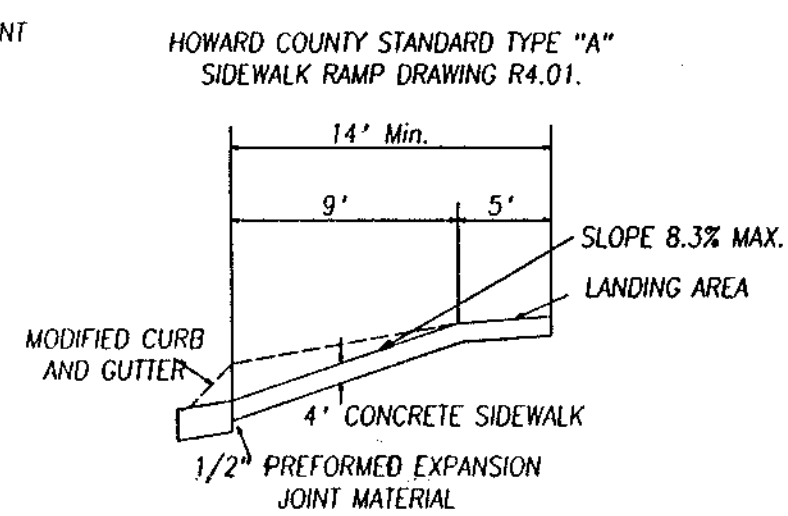
- ① PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL
- ② TYPE OF CURB VARIES (MODIFIED CURB AND GUTTER OR STANDARD COMBINATION CURB AND GUTTER - SEE ROAD PLAN)
- ③ 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- ④ INDICATES 2" TOPSOIL, SEED AND MULCH.
- ⑤ DESIGN SPEED = 25 M.P.H.

TYPICAL SECTION CUL-DE-SAC STREET

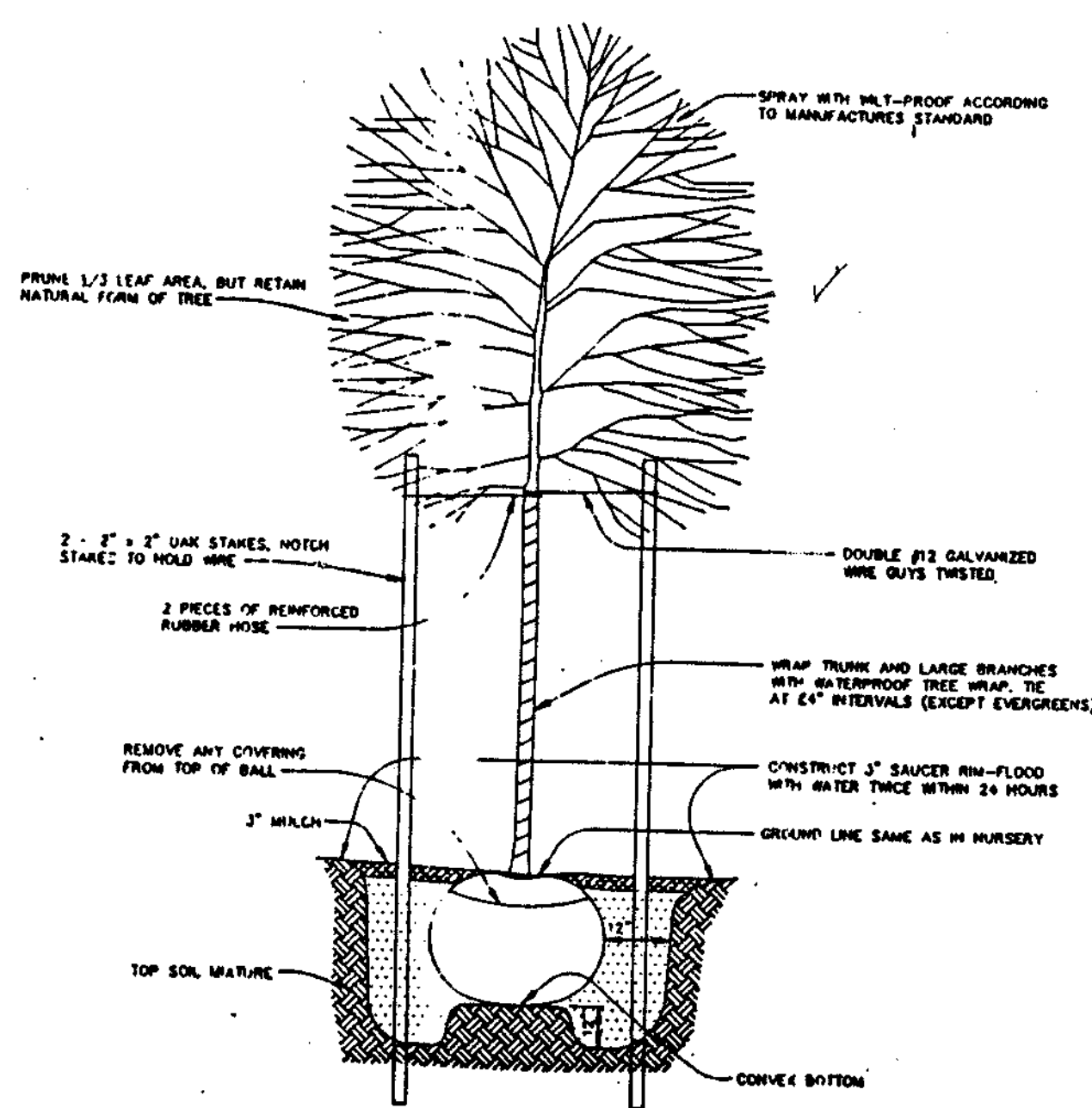
(NO SCALE)
LILAC BUSH LANE WAVING WILLOW PATH
FROM CL STA 0+45.09 TO CL STA 1+74.73 FROM CL STA 0+40 TO CL STA 4+63.62



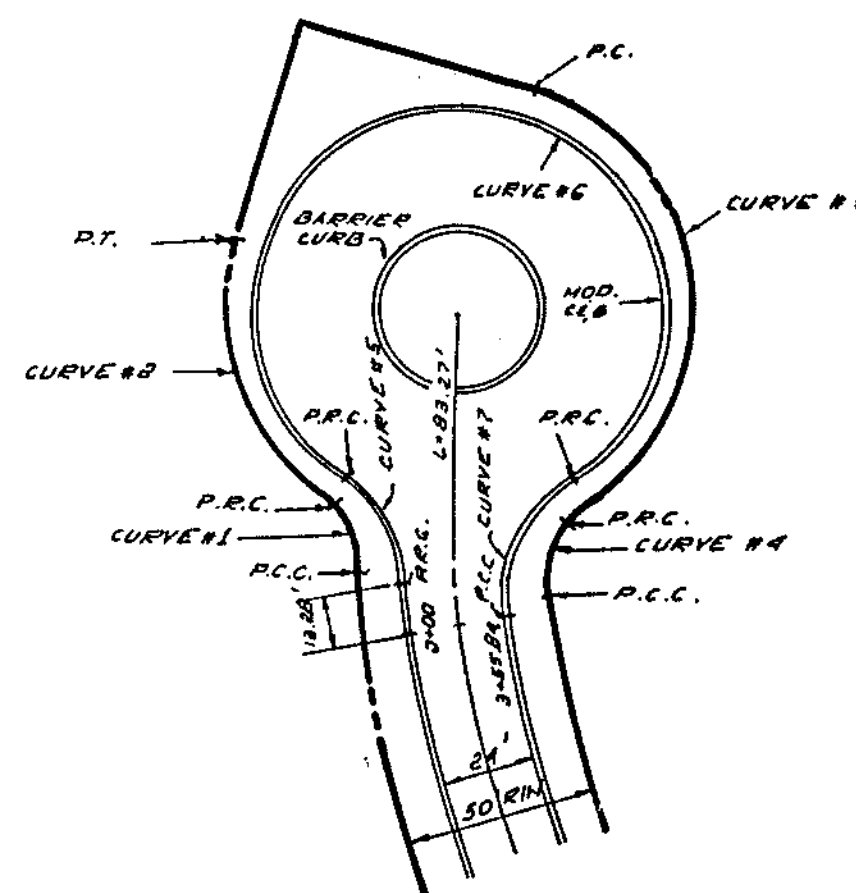
HANDICAP RAMP DETAIL
NO SCALE



SECTION C-C



TREE PLANTING DETAIL
NO SCALE

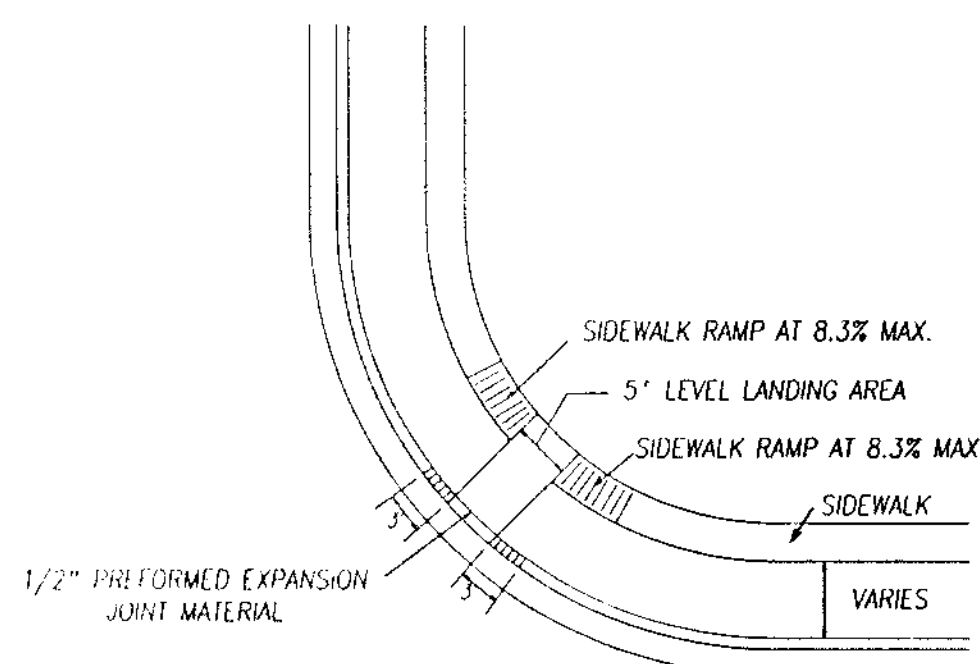


ZONING DISTRICTS	E	F	G	H	R/W	A
RESIDENTIAL	52'	60'	8'	-	50'	24'

*SEE STD. NO. R-1.01

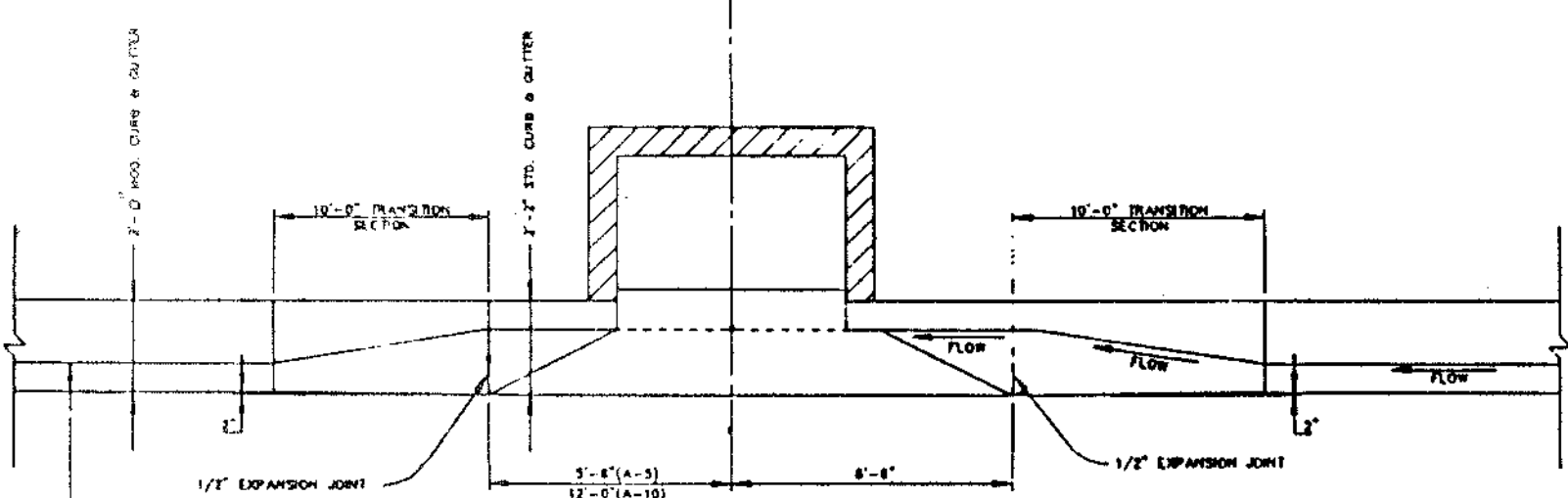
CURVE DATA						
RESIDENTIAL (24' APPROACH)						
LP-355 B4						
	1	2	3	4	5	6
A	48°22'54"	69°12'21"	128°11'48"	61°04'10"	49°26'13"	290°13'16"
R	25.00'	60.00'	60.00'	25.00'	40.00'	52.00'
L	21.11'	72.47'	134.28'	26.65'	34.31'	263.73'
T	11.23'	41.40'	123.64'	14.75'	18.41'	0.00'
L.C.	20.49'	68.15'	107.96'	25.00'	33.45'	99.21'

WAVING WILLOW PATH CUL-DE-SAC DETAIL
NO SCALE

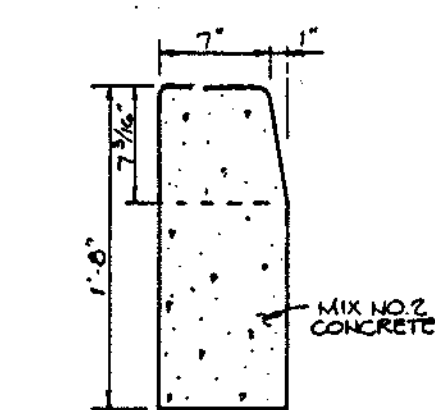


HANDICAP RAMP DETAIL
NO SCALE

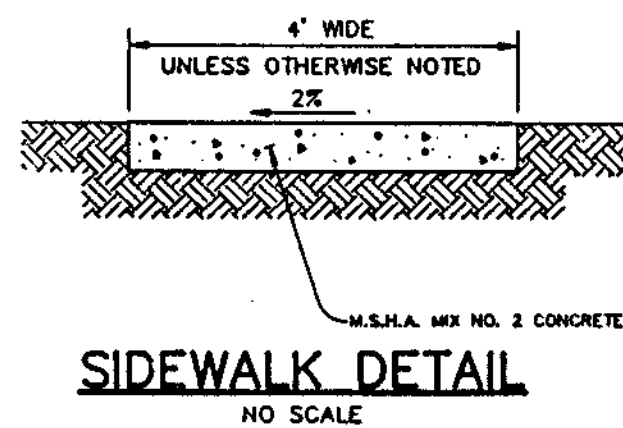
NOTE: ALL HANDICAP RAMPS SHALL MEET CURRENT ADA CRITERIA



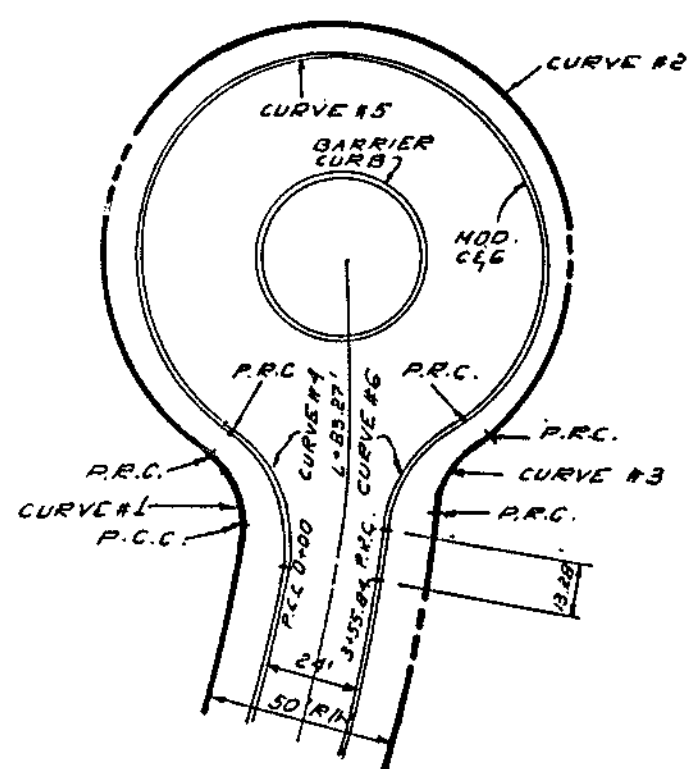
MODIFIED COMBINATION CURB AND GUTTER TRANSITION CURB SECTION AT "A" TYPE INLETS



STANDARD BARRIER CURB
NO SCALE



SIDEWALK DETAIL
NO SCALE



ZONING DISTRICTS	E	F	G	H	R/W	A
RESIDENTIAL	52'	60'	8'	-	50'	24'

*SEE STD. NO. R-1.01

CURVE DATA						
RESIDENTIAL (24' APPROACH)						
LP-355 B4						
	1	2	3	4	5	6
A	61°04'11"	287°26'05"	48°22'52"	63°28'18"	290°13'16"	49°26'14"
R	25.00'	60.00'	25.00'	40.00'	52.00'	40.00'
L	26.65'	101.00'	21.11'	44.31'	263.73'	34.31'
T	14.75'	0.00'	11.23'	24.74'	0.00'	18.41'
L.C.	25.40'	71.01'	20.49'	42.08'	59.21'	33.45'

LILAC BUSH LANE CUL-DE-SAC DETAIL
NO SCALE

AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Summari 7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH SA DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Doulos 7/26/95
CHIEF, BUREAU OF HIGHWAYS HS DATE

Paul J. Szymanski 7/26/95
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO. REVISION

OWNER/DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

PROJECT **VILLAGE OF RIVER HILL**
SECTION 2 AREA 5
LOTS 1 - 31

AREA TAX MAP NO. 35 ZONED NEW TOWN
PART OF PARCELS 59 AND 22
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **DETAIL SHEET**

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS

658 KENILWORTH PARK DRIVE
TOWSON, MARYLAND 21284
(410) 825-8320

DATE S-91-03 WP-96-54
9-94-05

DESIGNED BY: I.Z./M.B.B.

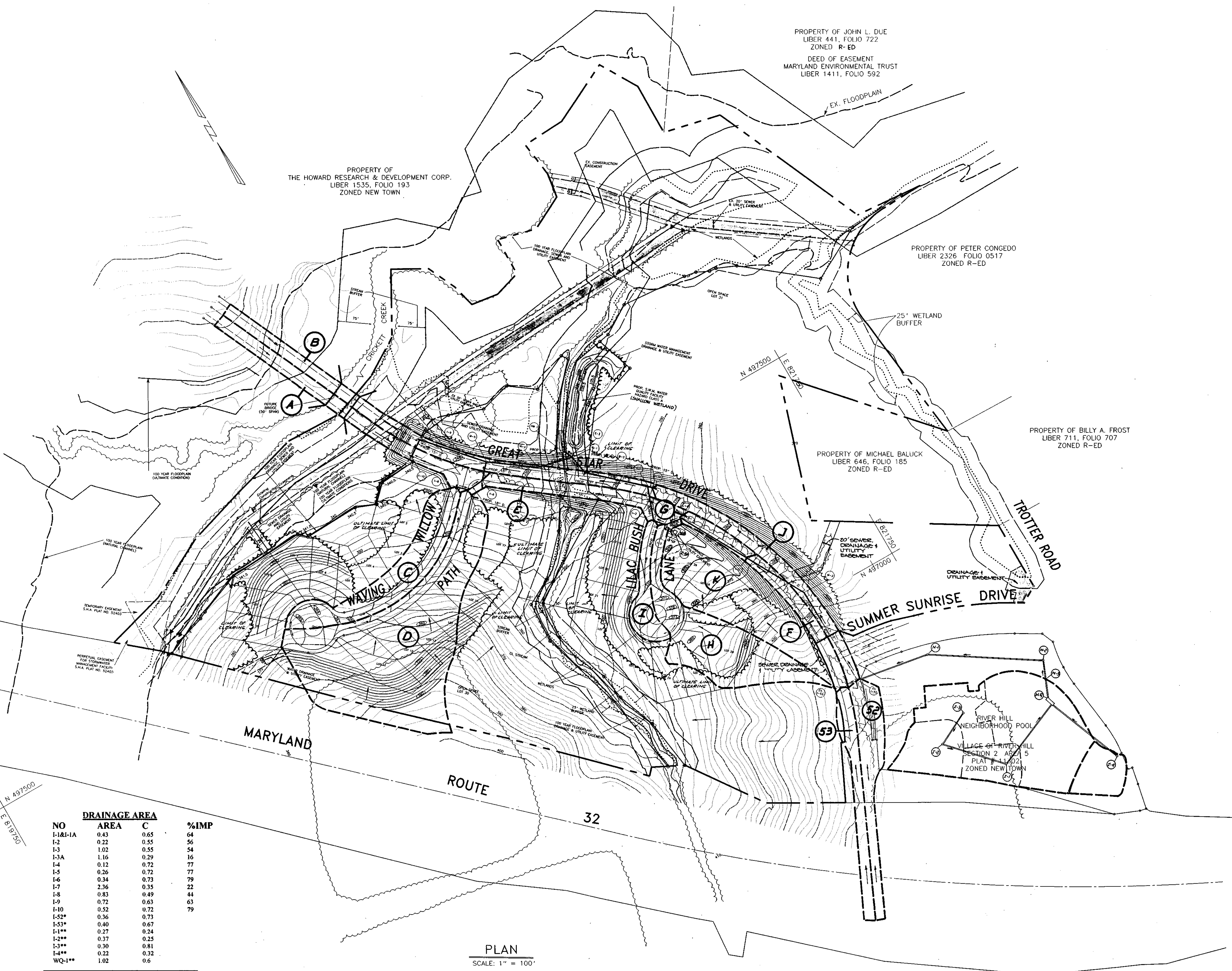
DRAWN BY: M.B.B./M.M.

PROJECT NO.: 7458

DATE: JANUARY 25, 1998

SCALE: AS SHOWN

NAME: DRAWING NO. 6 OF 13



NO	AREA	C	%IMP
I-1&I-1A	0.43	0.65	64
I-2	0.22	0.55	56
I-3	1.02	0.55	54
I-3A	1.16	0.29	16
I-4	0.12	0.72	77
I-5	0.26	0.72	77
I-6	0.34	0.73	79
I-7	2.36	0.35	22
I-8	0.83	0.49	44
I-9	0.72	0.63	63
I-10	0.52	0.72	79
I-52*	0.36	0.73	
I-53*	0.40	0.67	
I-1**	0.27	0.24	
I-2**	0.37	0.25	
I-3**	0.30	0.81	
I-4**	0.22	0.32	
WQ-1**	1.02	0.6	

PLAN
SCALE: 1" = 100'

* VILLAGE OF RIVER HILL-SECTION 2 AREA 3
** RIVER HILL NEIGHBORHOOD POOL

PROPERTY OF JOHN L. DUE
LIBER 441, FOLIO 722
ZONED R-ED
DEED OF EASEMENT
MARYLAND ENVIRONMENTAL TRUST
LIBER 1411, FOLIO 592

PROPERTY OF
THE HOWARD RESEARCH & DEVELOPMENT CORP.
LIBER 1535, FOLIO 193
ZONED NEW TOWN

PROPERTY OF PETER CONGEDO
LIBER 2326 FOLIO 0517
ZONED R-ED

PROPERTY OF BILLY A. FROST
LIBER 711, FOLIO 707
ZONED R-ED

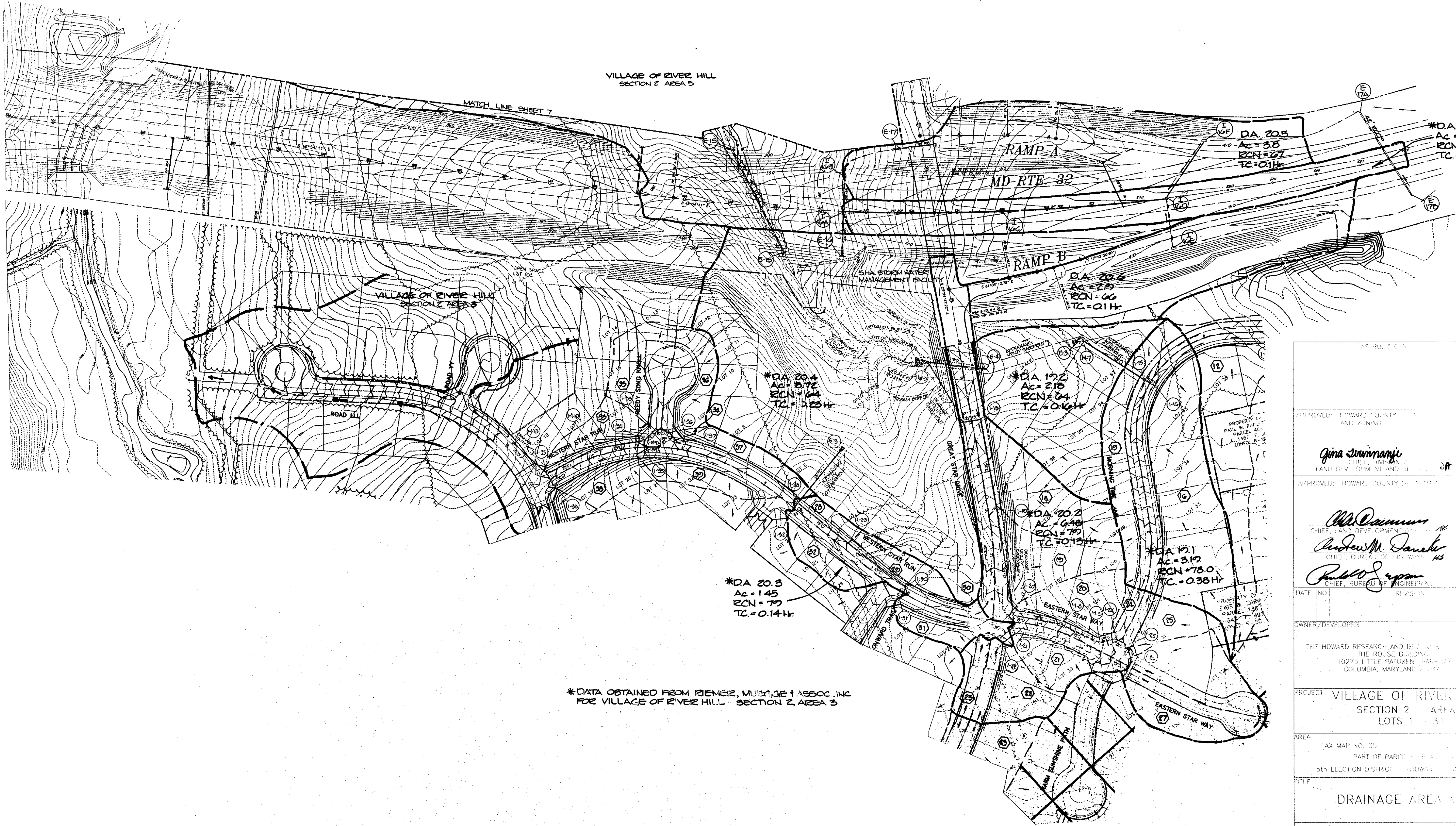
PROPERTY OF MICHAEL BALUCK
LIBER 646, FOLIO 185
ZONED R-ED

AS BUILT CERTIFICATE	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Gina Srinanjan</i>	7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Michael D...</i>	7/20/95
CHIEF, LAND DEVELOPMENT DIVISION	DATE
<i>Richard M. Daniels</i>	7-19-95
CHIEF, BUREAU OF HIGHWAYS	DATE
<i>Robert S...</i>	7/20/95
CHIEF, BUREAU OF ENGINEERING	DATE
DATE NO.	REVISION
OWNER/DEVELOPER	
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
PROJECT VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31	
AREA TAX MAP NO 35 ZONED NEW TOWN PART OF PARCELS 59 AND 22 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE DRAINAGE AREA MAP	
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. GWS CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, SUITE 100 TOWSON, MARYLAND 21204 (410) 825-8120	
6/29/95 DATE	S-91-03 WP-95-34 P-94-05
<i>[Signature]</i>	DESIGNED BY: J.Z./M.R.B.
	DRAWN BY: M.R.B.
	PROJECT NO.: 7458
	DATE: JANUARY 25, 1995
	SCALE: AS SHOWN
NAME	DRAWING NO. 7 OF 13

1487

VILLAGE OF RIVER HILL
SECTION 2 AREA 5

MATCH LINE SHEET 7



*DA 20.3
Ac = 145
RCN = 77
TC = 0.14 Hr.

*DA 20.4
Ac = 272
RCN = 64
TC = 0.23 Hr.

*DA 19.2
Ac = 218
RCN = 64
TC = 0.16 Hr.

*DA 20.2
Ac = 648
RCN = 77
TC = 0.15 Hr.

*DA 19.1
Ac = 312
RCN = 78.0
TC = 0.38 Hr.

*DA 20.5
Ac = 38
RCN = 67
TC = 0.11 Hr.

*DA 20.1
Ac = 207
RCN = 74
TC = 0.44 Hr.

*DATA OBTAINED FROM RIEMER, MUEHLER & ASSOC., INC.
FOR VILLAGE OF RIVER HILL - SECTION 2, AREA 5

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Gina Summanji</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND REVISION	7/25/95
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>W.D. Damm</i> CHIEF, LAND DEVELOPMENT DIVISION	7/20/95
<i>Andrew M. Daniels</i> CHIEF, BUREAU OF HIGHWAYS	7-14-95
<i>Paul J. Ryan</i> CHIEF, BUREAU OF ENGINEERING	7/20/95
DATE: 01/25/95	REVISION: 1
OWNER/DEVELOPER: THE HOWARD RESEARCH AND DEVELOPMENT ASSOCIATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
PROJECT: VILLAGE OF RIVER HILL SECTION 2 AREA 5 LOTS 1 - 31	
AREA: TAX MAP NO. 35 PART OF PARCELS 1-31 5th ELECTION DISTRICT - HOWARD COUNTY, MARYLAND	
TITLE: DRAINAGE AREA MAP	
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS 658 KENILWORTH DRIVE, S.F.E. 100 TOWSON, MARYLAND 21286 (410) 288-2100	
DATE: 01/25/95 DRAWN BY: [Signature] CHECKED BY: [Signature]	WP-95-34
STATE OF MARYLAND RICHARD L. LAMORELLO REGISTERED PROFESSIONAL ENGINEER No. 10566	JANUARY 25, 1995
<i>R.L. Lamorello</i>	13

1487

PERMANENT SEEDING NOTES

- A. APPLIES TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT, LONG LIVED VEGETATIVE COVER IS NEEDED.
B. SEEDBED PREPARATION. LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING...
C. SOIL AMENDMENTS...
D. SEEDING...
E. MAINTENANCE...

TEMPORARY SEEDING NOTES

- A. APPLIES TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
B. SEEDBED PREPARATION LOOSEN UPPER THREE INCHES OF SOIL BY DISCING, RAKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING...
C. SOIL AMENDMENTS...
D. SEEDING...
E. MAINTENANCE...
F. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...

NOTES: PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT ALL ACCESS POINTS TO PAVED RDS. SEE PERMITS FOUND IN SPECIFICATIONS AS FOLLOWS:

SEDIMENT CONTROL NOTES

A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

SITE ANALYSIS: TOTAL AREA OF SITE: 37.96 AC. AREA DISTURBED: 9.74 AC. AREA TO BE ROOFED OR PAVED: 1.7 AC. AREA TO BE VEGETATIVELY STABILIZED: 8.04 AC. TOTAL CUT: 25,600 CY. POND NOT INCLUDED. TOTAL FILL: 70,270 CY.

ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

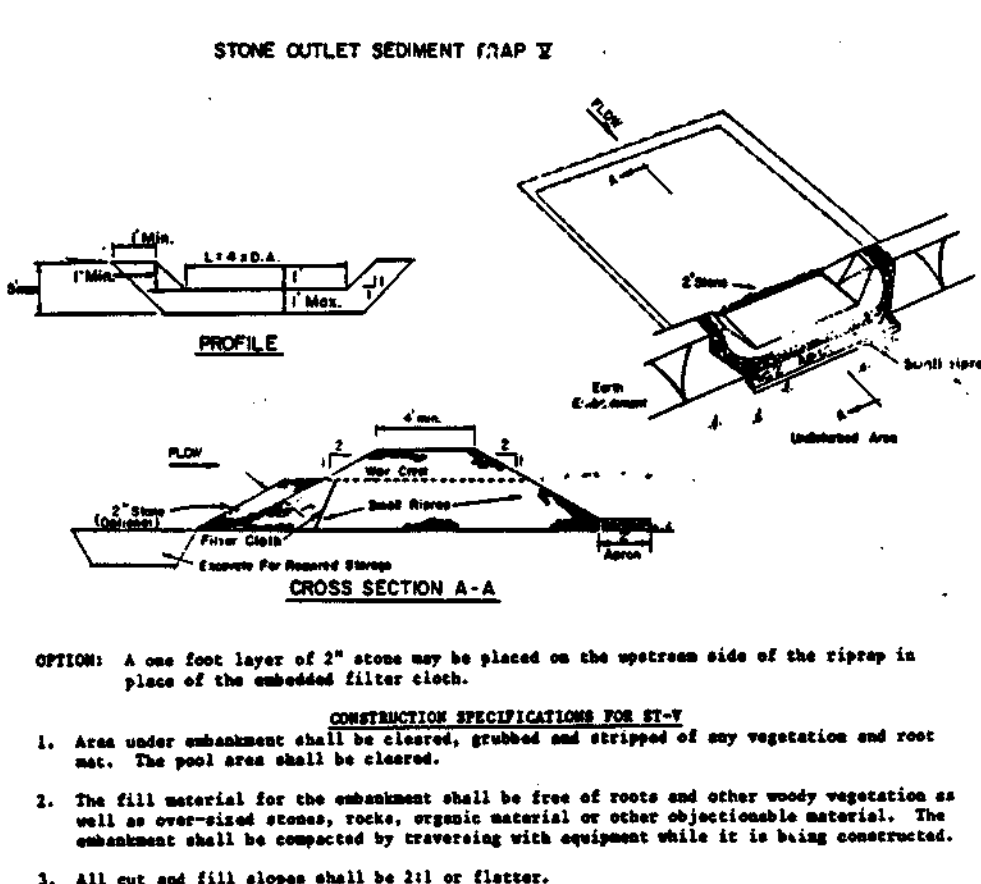
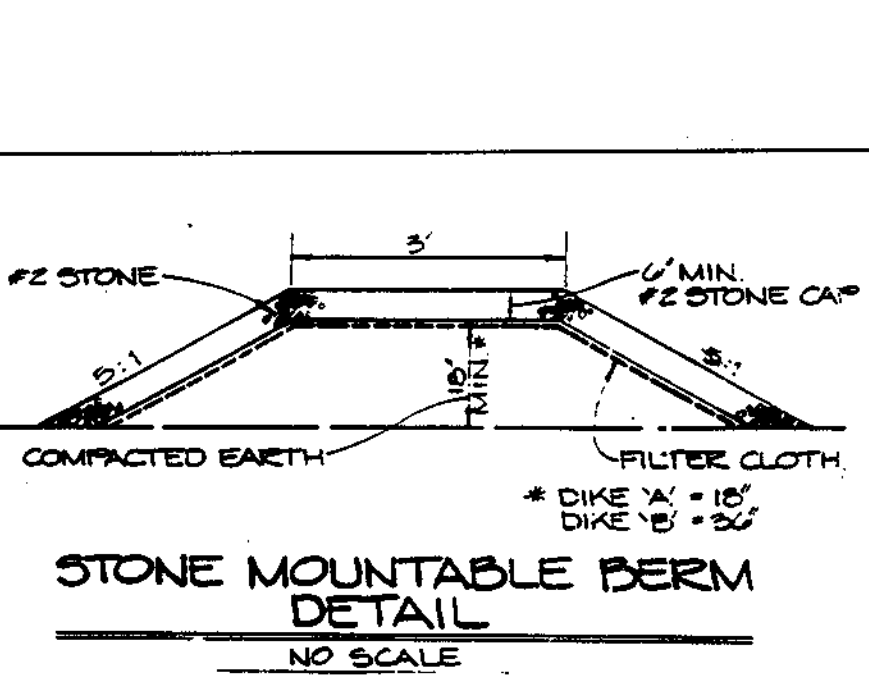
ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

CUT AND FILL QUANTITIES PROVIDED IN 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 EFFECT THE WORK.

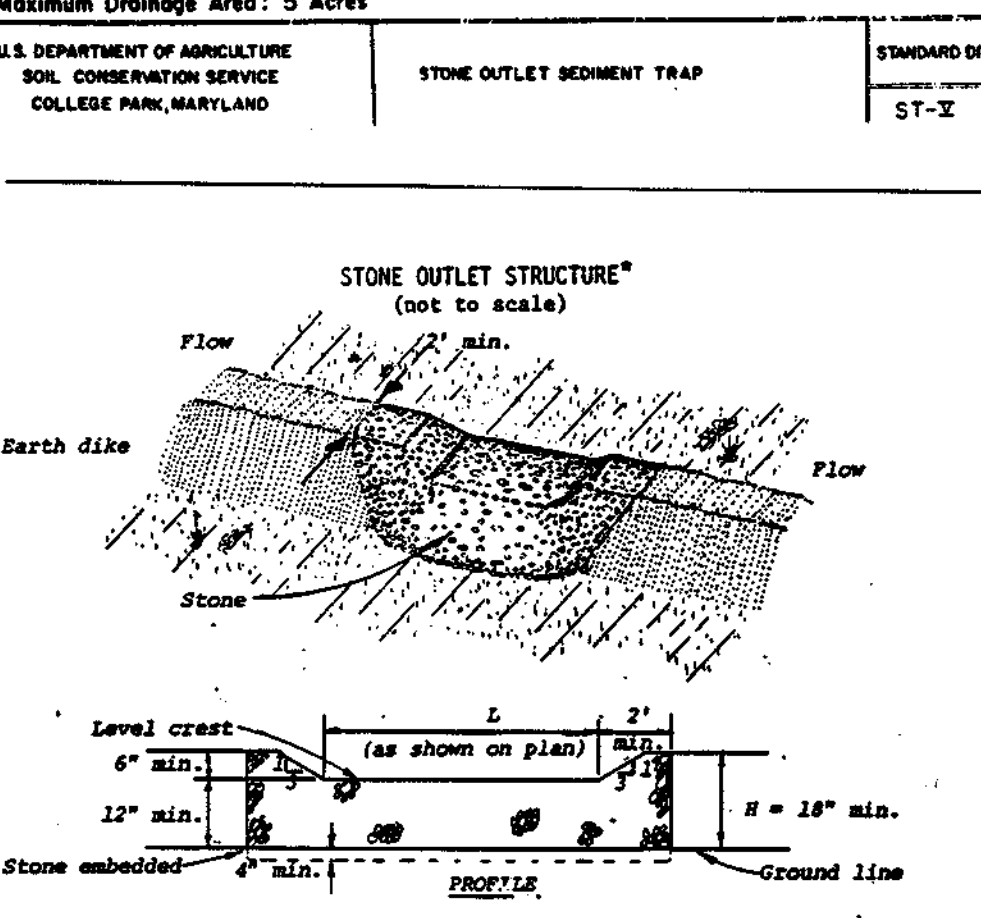
TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY WHICHEVER IS SHORTER.

** SITE ANALYSIS IS FOR DISTURBED AREAS BEYOND THOSE PROTECTED BY THE ROAD CONSTRUCTION.

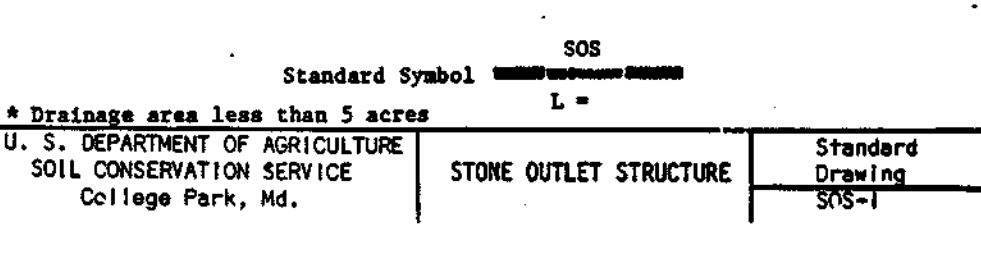
ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.



CONSTRUCTION SPECIFICATIONS FOR ST-1. 1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.

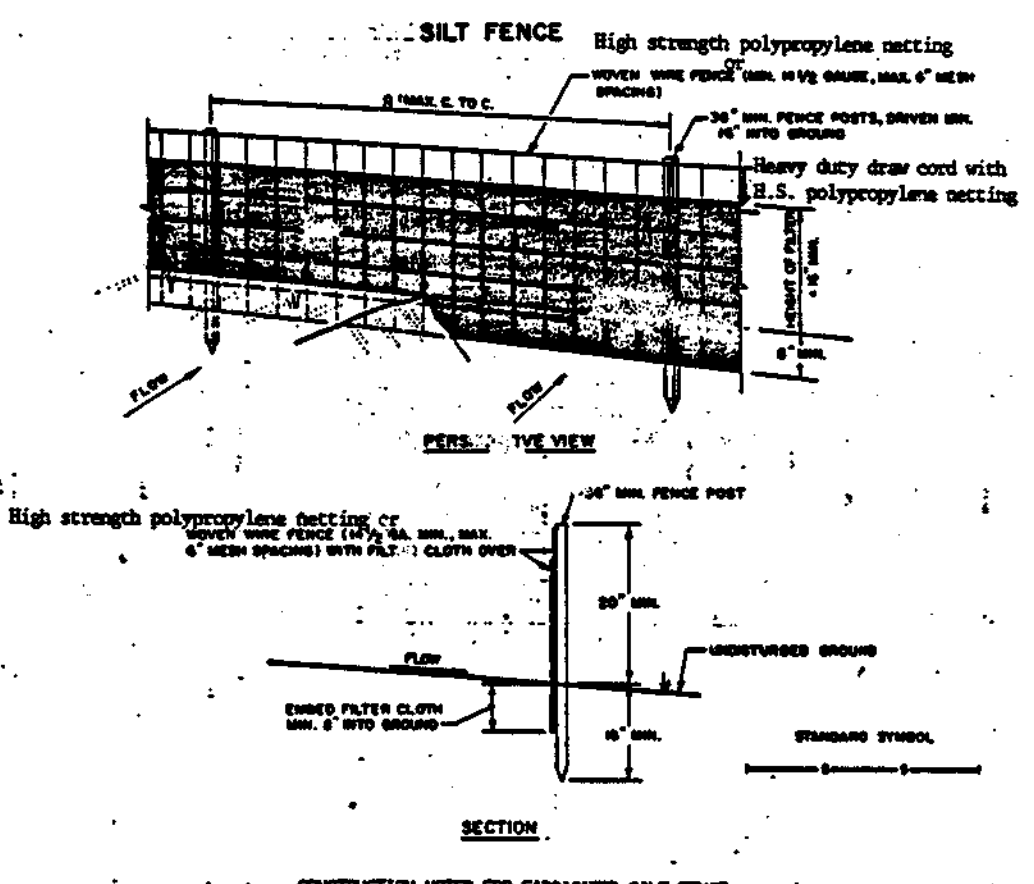


CONSTRUCTION SPECIFICATIONS. 1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 1 or 24.

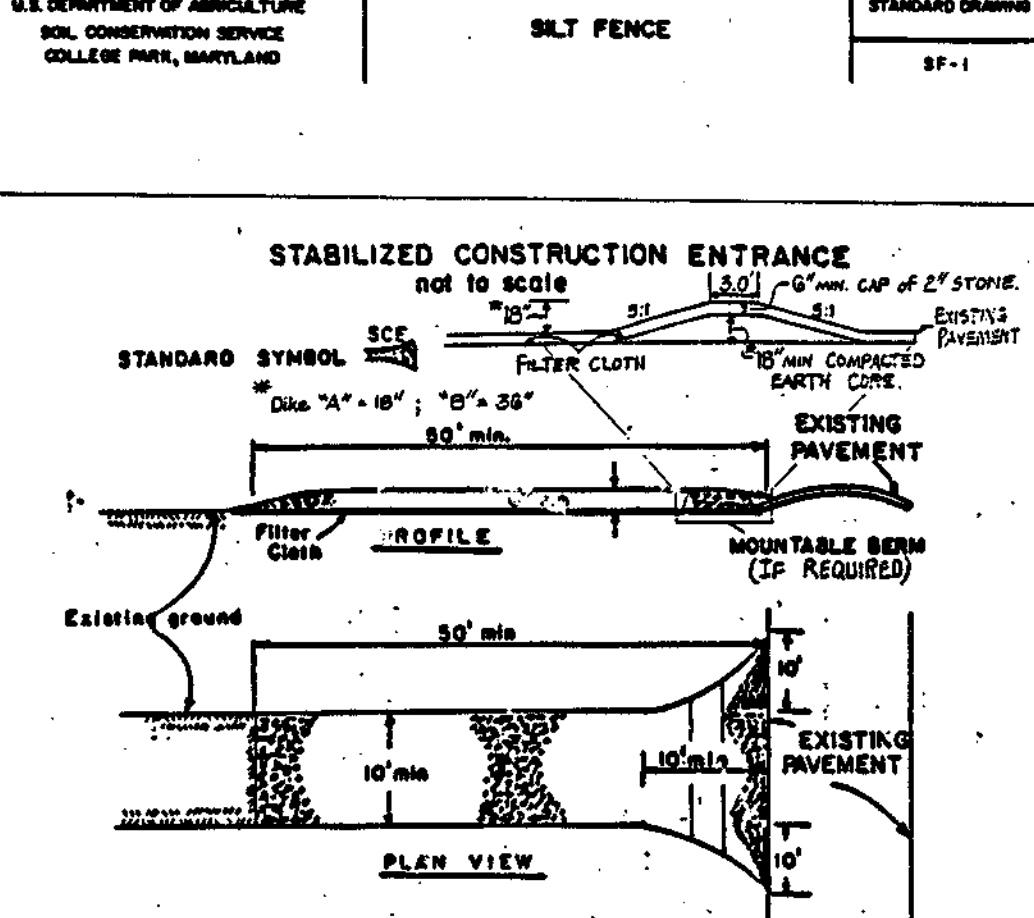


CONSTRUCTION SPECIFICATIONS. 1. ALL TEMPORARY SWALES SHALL HAVE UNIMPAIRED POSITIVE GRADE TO AN OUTLET. 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

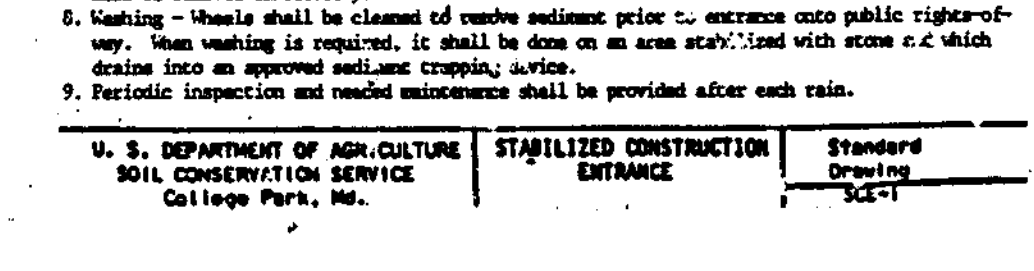
Table with columns for Type of Treatment, Method, and Remarks. It details stabilization methods for flow channels, including seeding and straw mulch, and lists materials like limestone and lime.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE. 1. High strength polypropylene netting or heavy duty draw cord with U.S. Silt Fence netting.

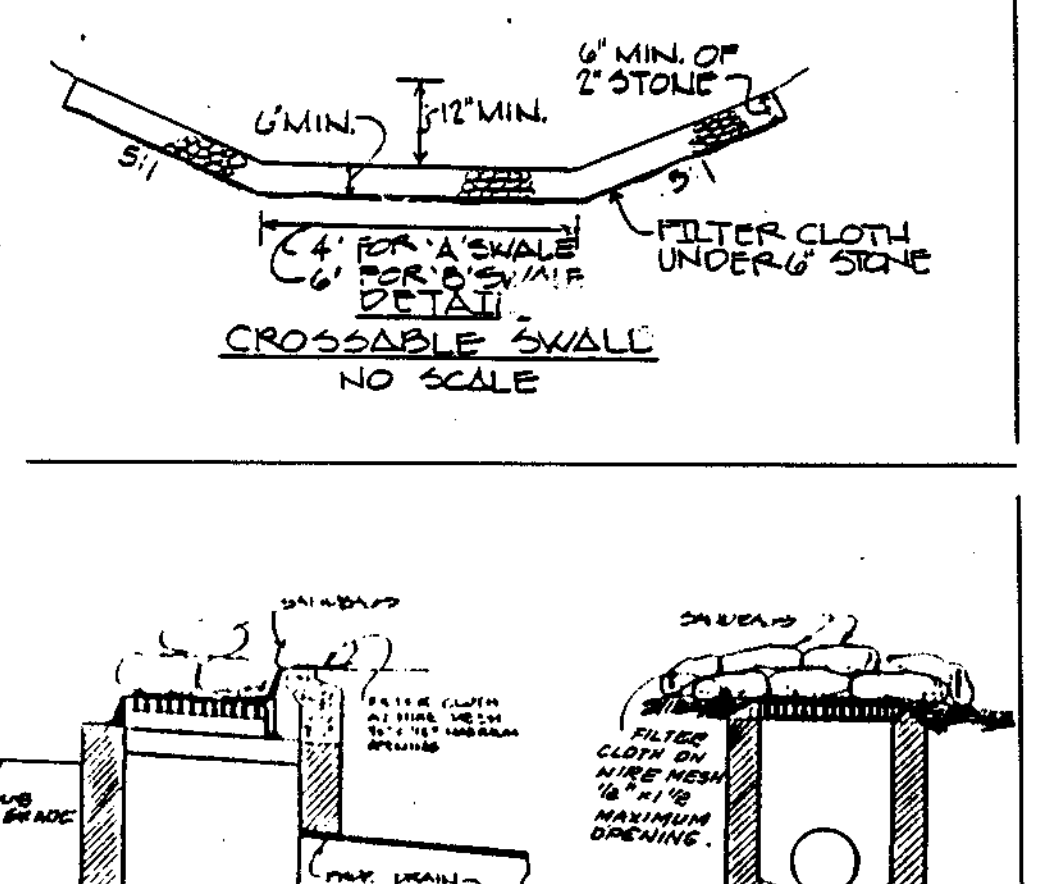


CONSTRUCTION SPECIFICATIONS. 1. Stone Size - Use #2 stone, or reclaimed or recycled concrete equivalent. 2. Length - As required, but not less than 30 ft. (except on a single residence lot where a 30 ft minimum length would apply).

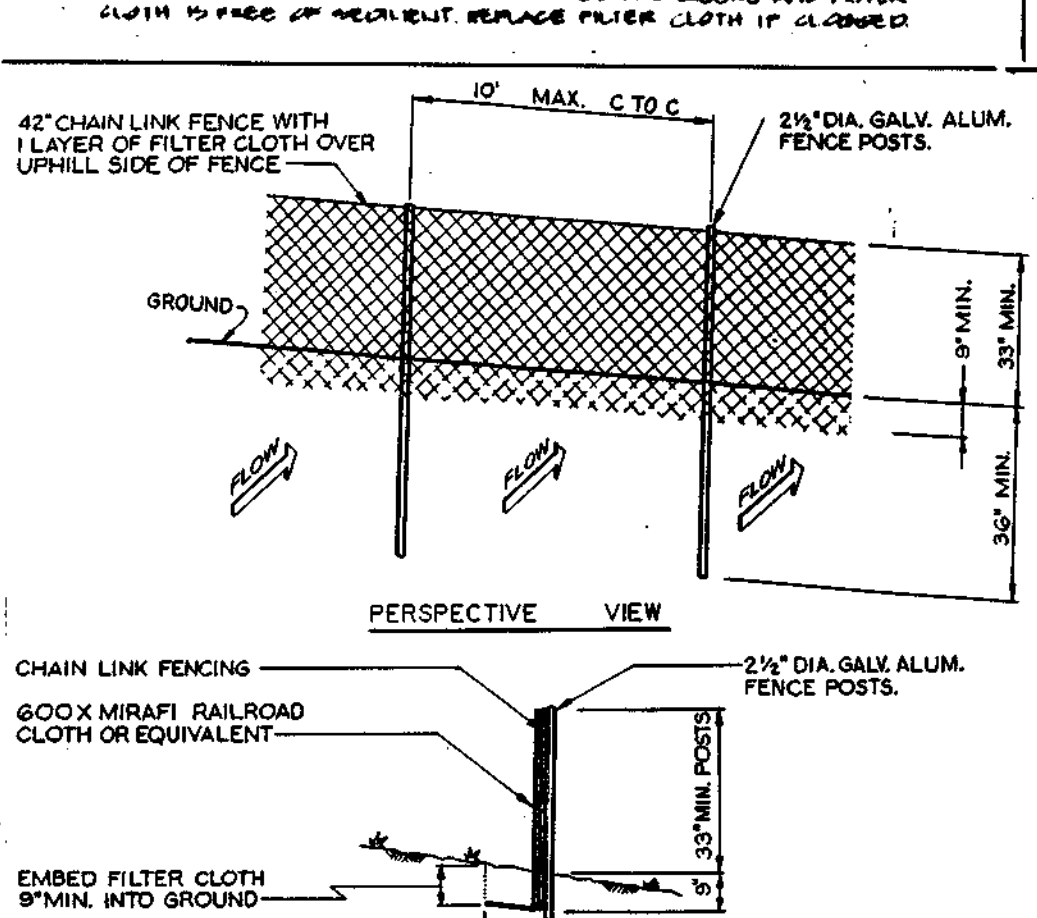


CONSTRUCTION SPECIFICATIONS. 1. All dikes shall be compacted by earthmoving equipment. 2. Top with top 1/2\"/>

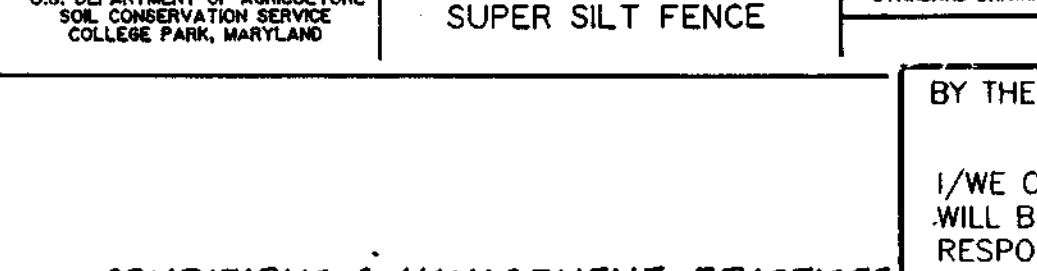
Table for Flow Channel Stabilization with columns for Type of Treatment, Method, and Remarks. It lists methods like seeding and straw mulch, and materials like limestone and lime.



CONSTRUCTION SPECIFICATIONS FOR INLET PLUGGING. 1. PLACE NINE HIGH JER INLET MATE AND THREAT SPRING, PER LAP 6 FEET AT ALL ENDS.



FENCING SHALL BE 42\"/>

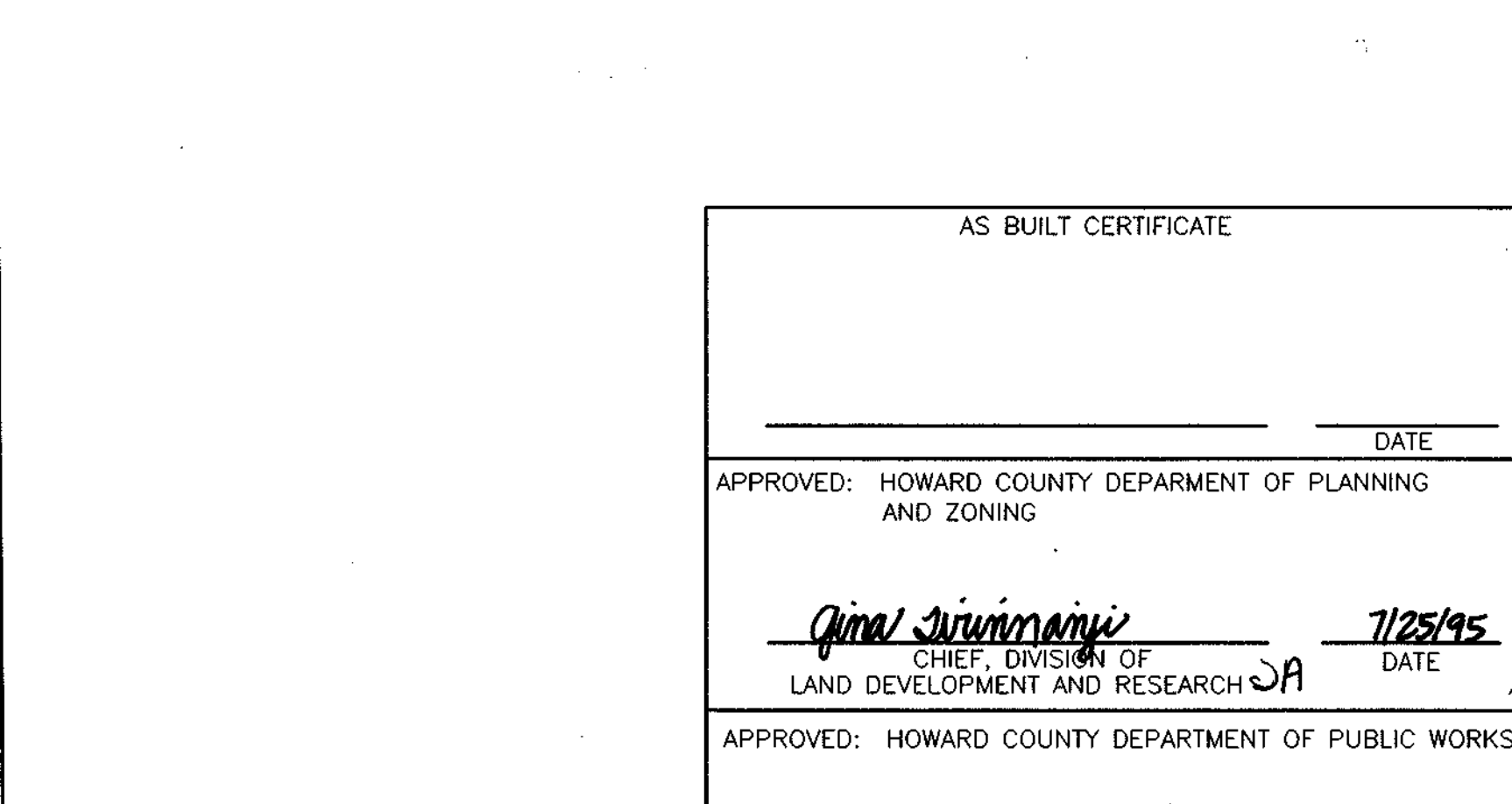


CONDITIONS & MANAGEMENT PRACTICES FOR WORK IN NONTIDAL WETLANDS. a) Remove excess fill or construction material or debris to an upland disposal area outside of any floodplain, nontidal wetland, or buffer.

Table for Flow Channel Stabilization with columns for Type of Treatment, Method, and Remarks. It lists methods like seeding and straw mulch, and materials like limestone and lime.

- 1. OBTAIN A GRADING PERMIT. 2 DAYS
2. NOTIFY THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES INSPECTOR 48 HOURS BEFORE BEGINNING WORK. 1 DAY
3. INSTALL TREE PROTECTION FENCE. 2 DAYS
4. CLEAR AND GRUB FOR AND INSTALL SEDIMENT CONTROL MEASURES AND DEVICES (EXCEPT INLET PLUGGING AND TEMPORARY SWALES). 5 DAYS
5. AFTER NOTIFYING AND OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR BEGIN ROUGH GRADING, MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL MEASURES AND DEVICES...
6. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAIN SYSTEM. PROVIDE INLET PLUGGING AS SHOWN ON THE PLAN. PLUG 12\"/>

CONSTRUCTION SPECIFICATIONS FOR INLET PLUGGING. 1. PLACE NINE HIGH JER INLET MATE AND THREAT SPRING, PER LAP 6 FEET AT ALL ENDS.



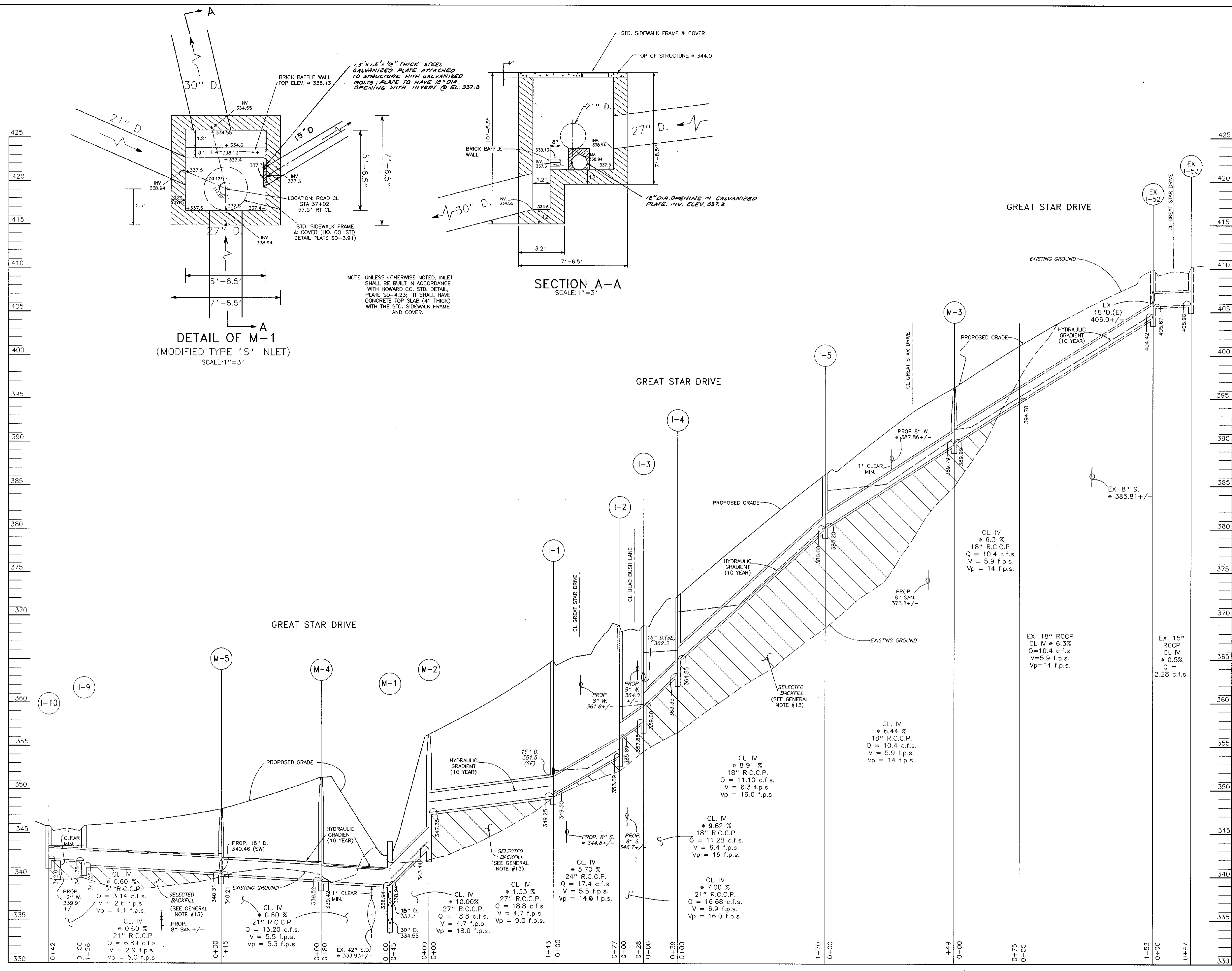
FENCING SHALL BE 42\"/>

AS BUILT CERTIFICATE section containing approval signatures from Howard County Department of Planning and Zoning, and Howard County Department of Public Works, dated 7/25/95.

GRADING AND SEDIMENT CONTROL PLAN section containing a certification statement by the developer and engineer, and a table of technical specifications for sediment control measures.

1487

1487



AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE: 7/25/95
 Signature: *Gina Sammanji*
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: 7/20/95
 Signature: *William M. Daniels*
 CHIEF, BUREAU OF HIGHWAYS

DATE: 7/20/95
 Signature: *Robert J. Brown*
 CHIEF, BUREAU OF ENGINEERING

OWNER/DEVELOPER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, THE ROUSE BUILDING, 10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF RIVER HILL, SECTION 2 AREA 5, LOTS 1 - 31

AREA: TAX MAP NO. 35, ZONED NEW TOWN, PART OF PARCELS 59 AND 22, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: STORM DRAIN PROFILES

ENGINEER: GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC., CIVIL ENGINEERS & LAND SURVEYORS, 658 KENILWORTH DRIVE, SUITE 100, TOWSON, MARYLAND 21204, (410) 829-8120

DATE: 7/25/95
 DESIGNED BY: I.J./M.B.R.
 DRAWN BY: M.B.R.
 PROJECT NO.: 7458
 DATE: JANUARY 25, 1995
 SCALE: AS SHOWN
 DRAWING NO. 12 OF 13
 F-95-48

STRUCTURE SCHEDULE

NO	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV	REMARKS
I-1	A-10	20' RT. C STA. 35+30.52 GREAT STAR DRIVE	24'- 349.50 & 15' - 351.50	349.25	355.40	SEE HO CO STD DETAILS SD 4.02
I-1A	A-10	20' RT. C STA. 35+15.00 GREAT STAR DRIVE		354.70	355.30	SEE HO CO STD DETAILS SD 4.01
I-2	A-5	13' RT. C STA. 0+47.83 LILAC BUSH LANE	355.89	355.89	355.79	SEE HO CO STD DETAILS SD 4.01
I-3	A-5	13' LT. C STA. 0+47.83 LILAC BUSH LANE	15'- 352.30 & 10' - 359.60	357.85	358.79	SEE HO CO STD DETAILS SD 4.01
I-3A	PRECAST OPEN END GRATE INLET	N 49' 72" 4' 1/2" E 82' 15" 94.72		353.50	357.00	SEE HO CO STD DETAILS SD 4.36
I-4	A-10	20' RT. C STA. 34+35.55 GREAT STAR DRIVE	364.85	363.35	372.10	SEE HO CO STD DETAILS SD 4.02
I-5	A-10	20' RT. C STA. 32+80.00 GREAT STAR DRIVE	390.20	390.00	385.80	SEE HO CO STD DETAILS SD 4.02
I-8	A-5	20' RT. C STA. 38+93.15 GREAT STAR DRIVE	341.43	341.23	345.10	SEE HO CO STD DETAILS SD 4.01
I-7	A-10	13' RT. C STA. 0+48.04 WAVING WILLOW PATH	342.44	342.19	347.30	SEE HO CO STD DETAILS SD 4.02
I-8	A-10	13' RT. C STA. 0+48.04 WAVING WILLOW PATH	343.80	343.30	347.30	SEE HO CO STD DETAILS SD 4.02
I-9	A-10	20' RT. C STA. 40+55 GREAT STAR DRIVE	341.75	341.25	345.70	SEE HO CO STD DETAILS SD 4.02
I-10	A-10	20' RT. C STA. 40+55 GREAT STAR DRIVE	342.00	342.00	345.70	SEE HO CO STD DETAILS SD 4.02
M-1	DOUBLE TYPE "A" INLET	57' RT. C STA. 37+02 GREAT STAR DRIVE	27'- 338.94 & 21' - 338.94	30'- 334.55 & 12' - 337.30	344.00	SEE DETAIL
M-2	STD. PRECAST MANHOLE	27' RT. C STA. 36+89.5 GREAT STAR DRIVE	347.35	343.44	355.9	SEE HO CO STD DETAIL GS.11
M-3	4'-0" DIAMETER PRECAST MANHOLE	14.00' RT. C STA. 31+14.53 GREAT STAR DRIVE	339.99	339.79	345.75	SEE HO CO STD DETAIL GS.12
M-4	4'-0" DIAMETER PRECAST MANHOLE	28' RT. C STA. 37+77 GREAT STAR DRIVE	338.52	338.42	351.30	SEE HO CO STD DETAIL GS.12
M-5	4'-0" DIAMETER PRECAST MANHOLE	22.50' RT. C STA. 38+93.15 GREAT STAR DRIVE	21'- 340.31 & 18' - 340.46	340.21	348.20	SEE HO CO STD DETAIL GS.12
E-1	CONC. END SECTION	88.00' RT. C STA. 37+00 GREAT STAR DRIVE		337.00		SEE HO CO STD DETAIL SD-5.52
*HW-1	A	85.00' RT. C STA. 37+25.00 GREAT STAR DRIVE	333.30			SEE HO CO STD DETAIL SD-5.11
*HW-2	A	85.00' LT. C STA. 35+94.00 GREAT STAR DRIVE		337.80		SEE HO CO STD DETAIL SD-5.11
* BUILT UNDER CONTRACT # 30-3387-D						
** TOP OF STRUCTURE						

AS BUILT CERTIFICATE

DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Jim Savinoni 7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John D. ... 7/20/95
CHIEF, LAND DEVELOPMENT DIVISION

Richard M. ... 7-14-95
CHIEF, BUREAU OF HIGHWAYS

Richard ... 7/20/95
CHIEF, BUREAU OF ENGINEERING

DATE NO. REVISION

OWNER/DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

PROJECT **VILLAGE OF RIVER HILL**
SECTION 2 AREA 5
LOTS 1 - 31

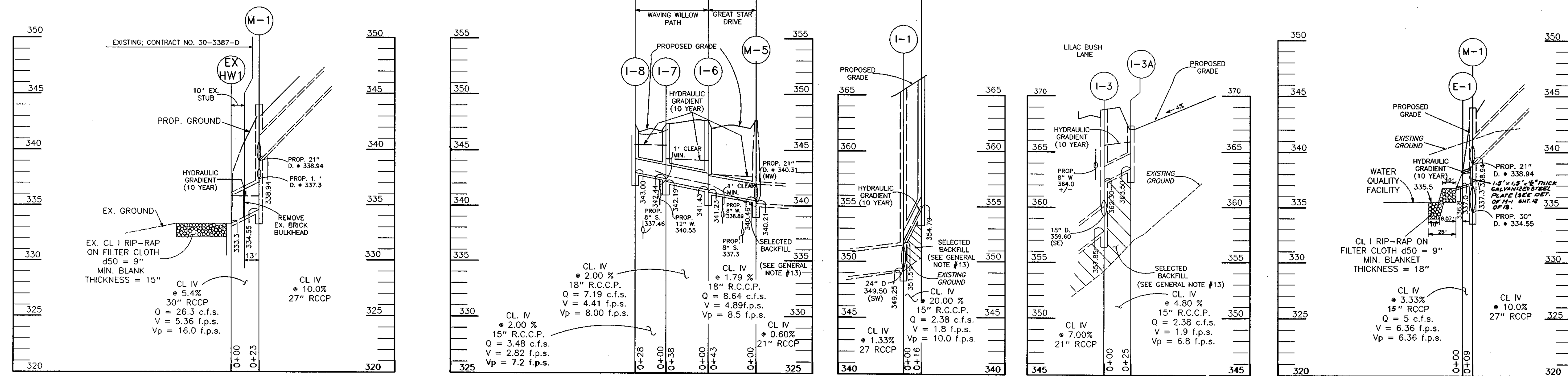
AREA TAX MAP NO. 35 ZONED NEW TOWN
PART OF PARCELS 59 AND 22
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **STORM DRAIN PROFILES, STRUCTURE SCHEDULE, STRIPING PLAN FOR GREAT STAR DRIVE**

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
658 KENILWORTH DRIVE, SUITE 100
TOWSON, MARYLAND 21284
(410) 825-8120

DATE 6/29/95
S-91-03 WP-95-34
P-94-05
DESIGNED BY: I.Z./M.B.B.
DRAWN BY: M.B.B.
PROJECT NO.: 7458
DATE: JANUARY 25, 1995
SCALE: AS SHOWN
DRAWING NO. 13 OF 13

GREAT STAR DRIVE



PROFILES
HORIZONTAL: 1"=50'
SCALE: VERTICAL: 1"=5'

1487