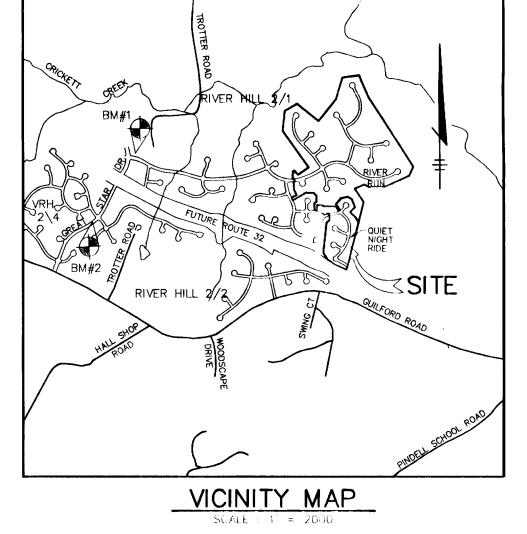
### ROADWAYS, STORM DRAINS AND STORMWATER MANAGEMENT

	SHEET INDEX							
NO	DESCRIPTION							
1	TITLE SHEET							
2	PLAN AND PROFILE OF GRATEFUL HEART GATE AND GREAT DRUM CIRCLE							
3	PLAN AND PROFILE OF QUIET NIGHT RIDE							
4	PLAN AND PROFILE OF WAVING TREE COURT AND HAZEL THICKET TERRACE							
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# VIIIAGE OF RIVER HIII SECTION 2 AREA 6 PHASE 1

LOTS 1 - 66 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



#### <u>BENCHMARKS</u>

The second se

BM#1 RAILROAD SPIKE IN POLE #525680 TRÖTTER ROAD ELEV. 393.27 N 496697.02 E 822026.81

RAILROAD SPIKE IN POPLAR

N 495551.90 E 820727.80

## AS BUILT CERTIFICATE

HOWARD COUNTY DEPARTMENT OF PUBLIC

BUREAU OF HIGHWAYS 43 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING

AND ZONING

DEVELOPMENT AND RESEARCH

ENGINÉERING DIVISION

REVISION

OWNER / DEVELOPER

DATE NO.

TITLE

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

VILLAGE OF RIVER HILL SECTION 2 AREA 6 PHASE 1

LOTS 1 THRU 66 AREA TAX MAP 35 BLOCKS 15 & 21 ZONED NEW TOWN

PART OF PARCEL 70

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE SHEET

ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282

> 7.17:96 DATE

DESIGNED BY: C.J.R. DRAWN BY: DAM

PROJECT NO: HULU 102000 PH1RD1.DWG DATE: JULY 17, 1006

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SCALE: AS SHOWN DRAWING NO. 1 OF 10

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AY LEAST 48 HOURS PRIOR
- TO ANY EXCAVATION WORK BEING DONE. 4. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, (JUNE 1993)."
- A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE. 6. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH MAXIMUM TWO
- 7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY
- 8. WATER IS PUBLIC. CONTRACT NO. 34-3434-D
- 9. SEWER IS PUBLIC. SEWER DRAINAGE AREA: MIDDLE PATUXENT CONTRACT NO. 34-3434-D
- 10. STORMWATER MANAGEMENT QUANTITY CONTROL IS PROVIDED BY THE MD RTE 32 STREAM CROSSINGS.

  WATER QUALITY IS PROVIDED BY PUBLICLY OWNED BIORETENTION AREAS, COLUMBIA ASSOCIATION WILL PROVIDE ROUTINE MAINTENANCE FOR WOMING & TRASH PICK-UP, NON-ROUTINE MAINTENANCE WILL BE PROVIDED BY HOWARD COUNTY, SEE THIS SHEET FOR OPERATION & MAINTENANCE GUIDELINES.
- 11. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECCESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED. AMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST
- 12. THERE IS NO 100- YEAR FLOODPLAIN AFFECTING THIS PROJECT.
- 13. WETLANDS DELINEATION FOR THIS PROJECT WAS PREPARED BY GEO-TECHNOLOGY ASSOCIATES INC. AND WAS APPROVED BY ARMY CORPS OF ENGINEERS ON 9-20-93.
- 14. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY GOROVE/SLADE ASSOCIATES AND WAS APPROVED UNDER S-91-03 ON 12-17-91.
- 15. THE NOISE STUDY FOR THIS PROJECT WAS PREPARED BY STAIAND ENGINEERING, INC. AND WAS APPROVED UNDER P-92-13 AND P-92-15 ON 6-26-92 AND 1-6-93 RESPECTIVELY. 16. THE GEOTECHNICAL STUDIES FOR THIS PROJECT PREPARED BY
- ROBERT BALTER COMPANY. 17. THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY KCI, INC. DATED AUGUST 28, 1991
- 18. SUBJECT PROPERTY ZONED (NT) PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- 19. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929. 20. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S. S-91-03, P-95-17
- 21. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK
- 22. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS
- 23. 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.
- 24. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6"
- 25. 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.
- 26. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- 27. ALL PIPE ELEVATIONS SHOWN ARE INVERT OF ELEVATIONS. 28. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND

ALL 50' RIGHT OF WAYS

- STORM DRAIN TRENDRES WHITIN ROAD RIGHT OF WAT SHALL BE DAGRILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS. 29. PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN
- 30. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE
- 31. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO TI80. 32. ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- 33. ALL STREET LIGHTS SHALL BE LOCATED BETWEEN 2'-0" AND 4'-0" BEHIND FACE OF CURB.

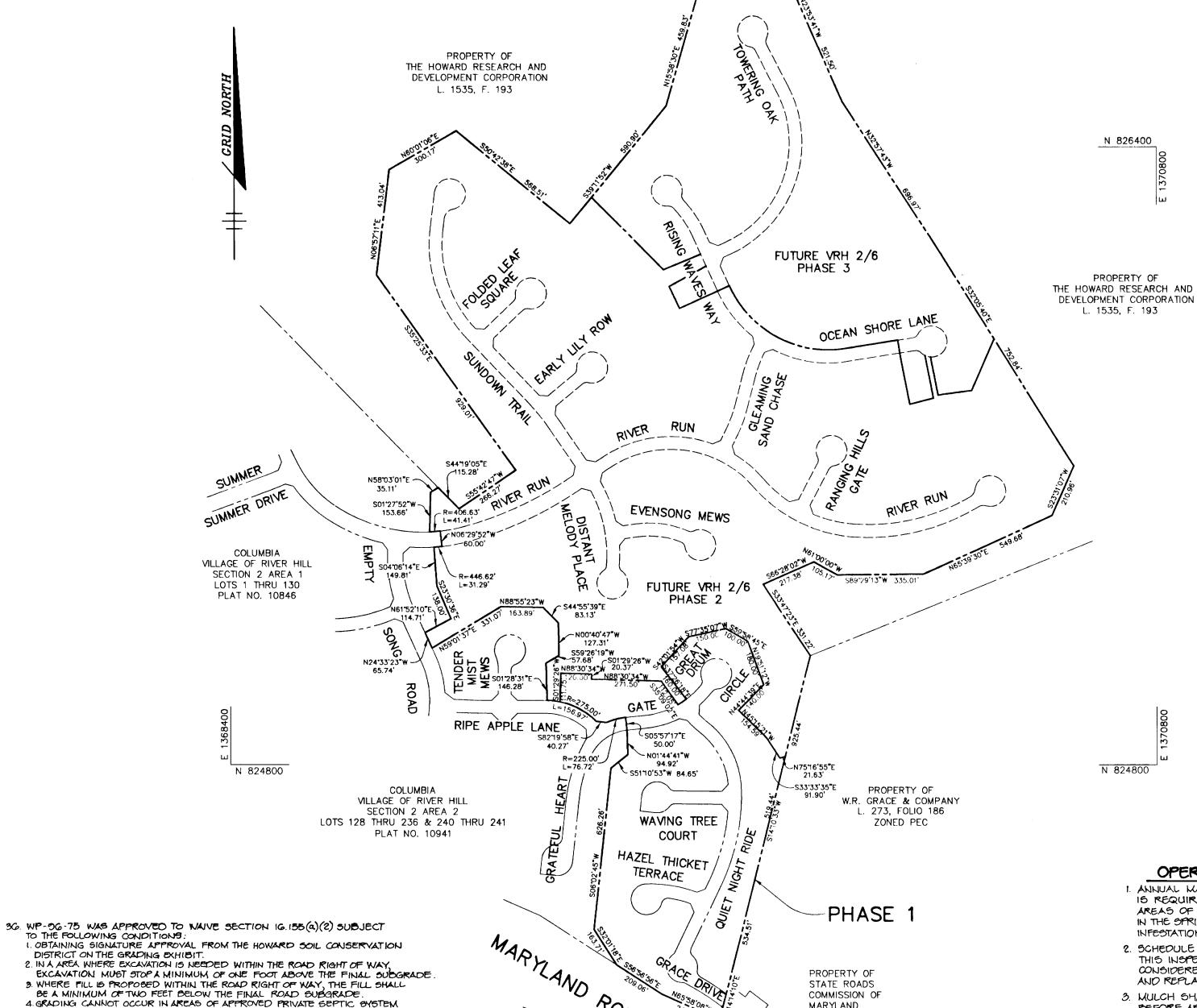
PERCOLATION TESTS WITHOUT PRIOR APPROVAL OF THE HEALTH DEPARTMENT.

5 GRADING CANNOT OCCUR IN WETLANDS BUFFERS, STREAM BUFFERS,

37. DEVELOPER IS RESPONSIBLE FOR PLANTING OF BIO-RETENTION AREAS.

STEEP SLOPES OR FOREST AREAS.

- 34. STREET TREES (124) THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMODATE FIELD CONDITIONS INCLUDING 20' CLEARANCE OF ANY STREET LIGHT AND BUILDERS LANDSCAPE PROGRAMS. BOND RELEASE IS CONTINGENT UPON SECTION 15.131 OF THE HOWARD COUNTY SUBDIVISION
- REGULATIONS, AS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING. 35. LOTS 18-30 WILL EMPLOY VEGETATIVE FILTER STRIPS IN ACCORDANCE WITH DEPARTMENT OF NATURAL RESOURCES STANDARDS AND SPECIFICATIONS FOR INFILTRATION PRACTICES FOR QUALITY MANAGEMENT OF ROOFTOPS.



**PLAN** 

MARYLAND

L. 455, F. 417

BIO-RETENTION AREAS

OPERATION AND MAINTENANCE GUIDELINES I. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER 15 REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND WAINTENANCE WILL ADDRESS DEAD WATERIAL AND FRUNING.

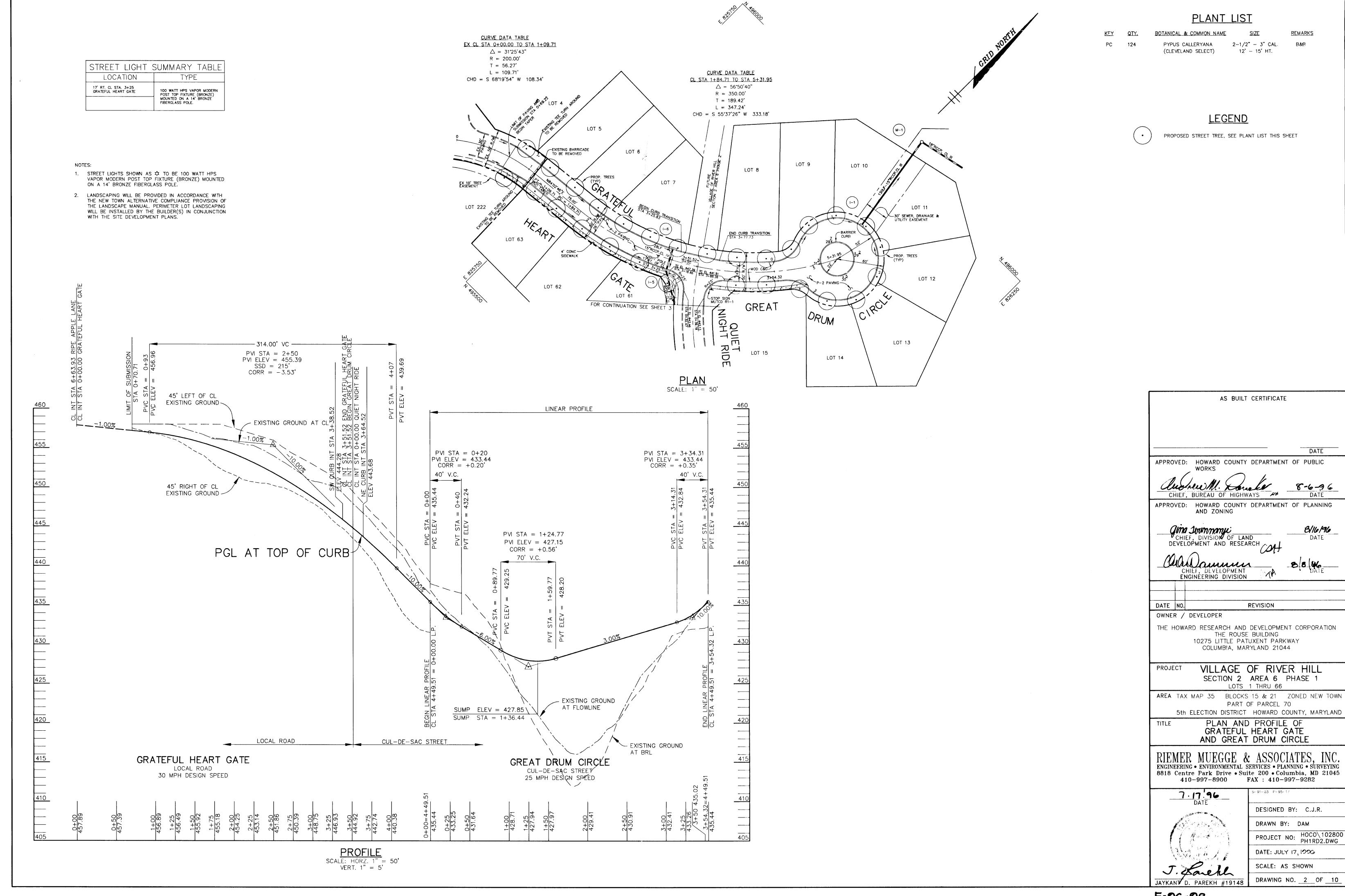
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL THIS INSPECTION WILL, INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.

3. MULCH SHALL BE INSPECTED EACH SPRING REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.

4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM

OF ONCE A MONTH AND AFTER HEAVY STORMS.

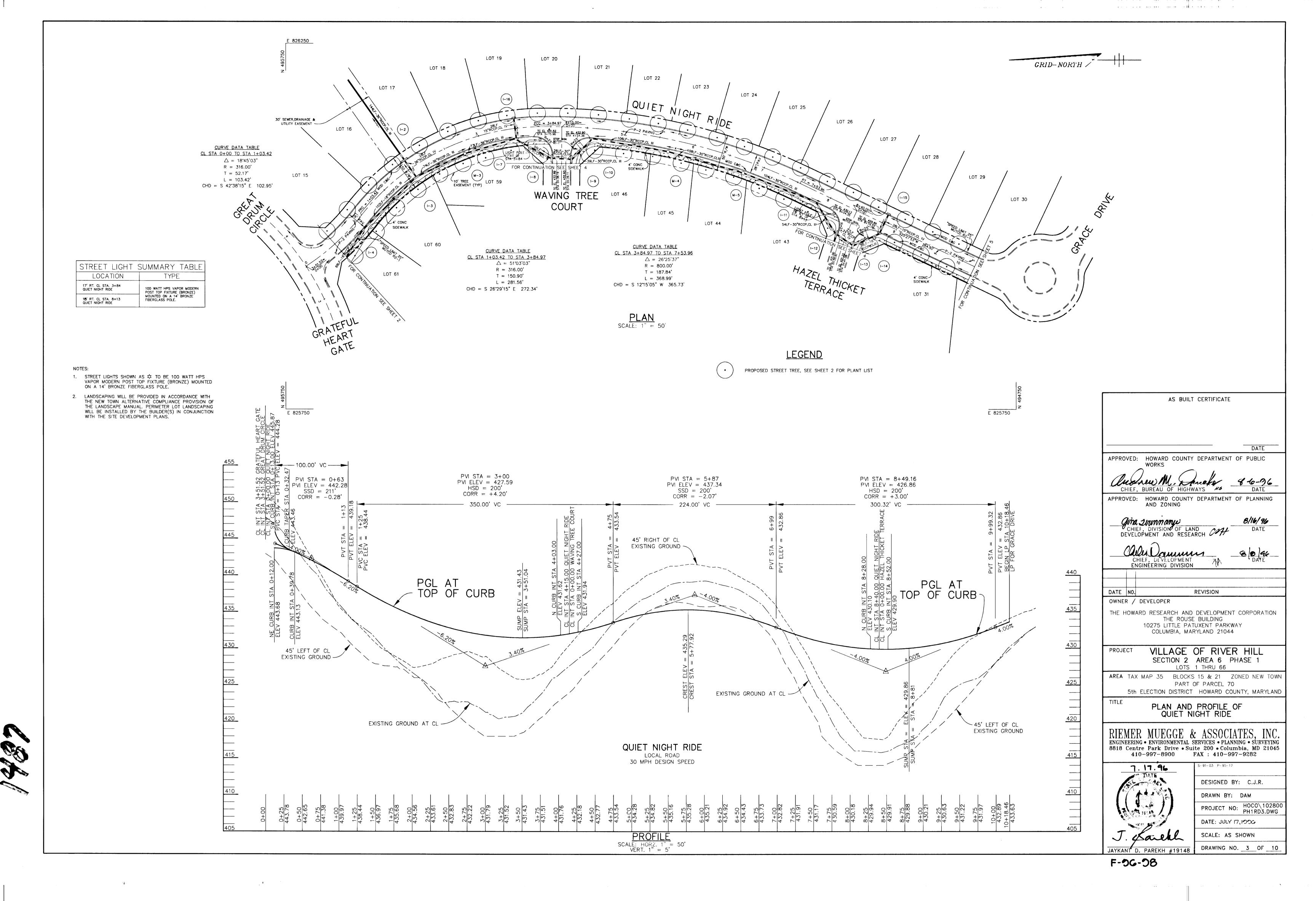
JAYKANT D. PAREKH #19148

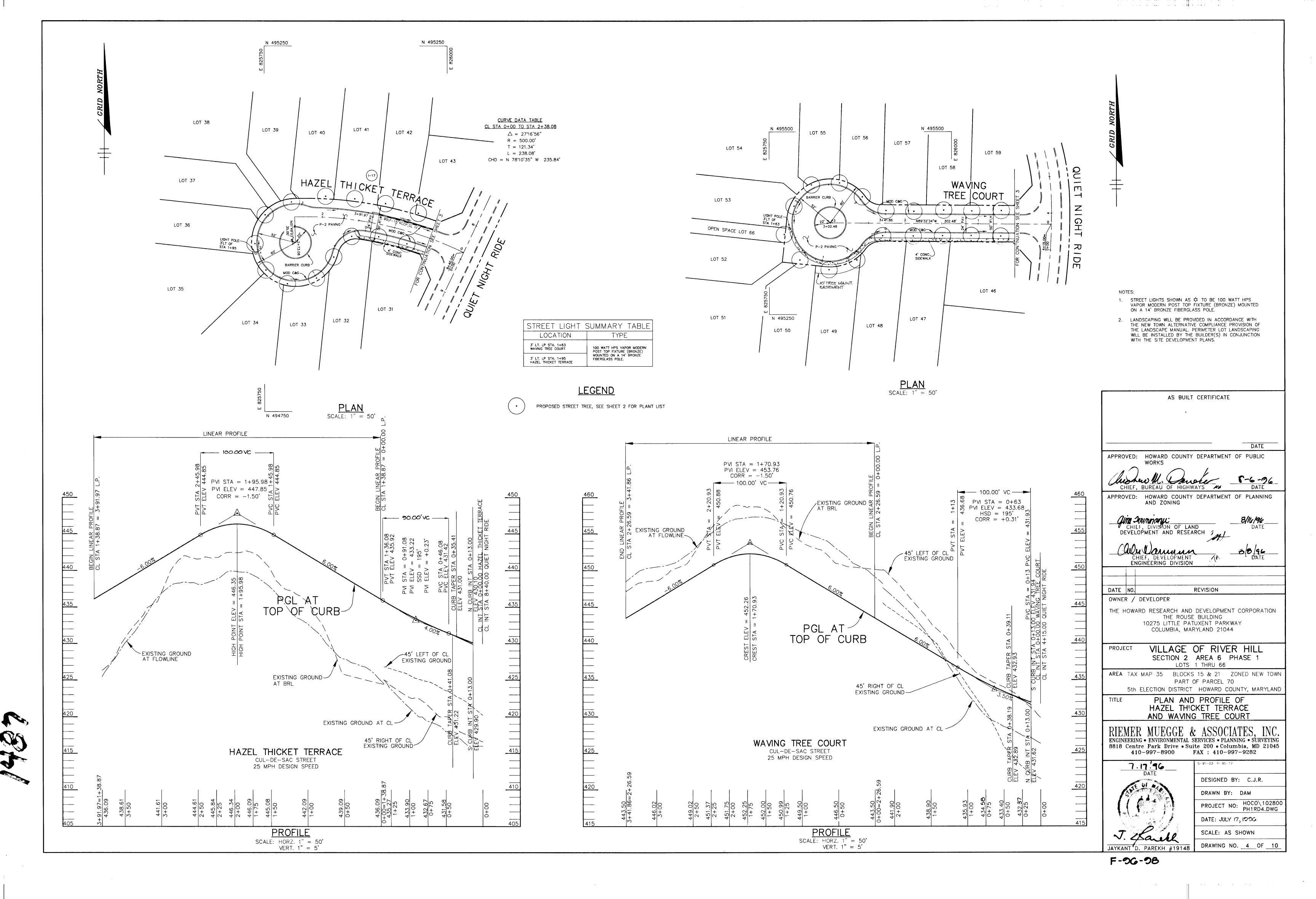


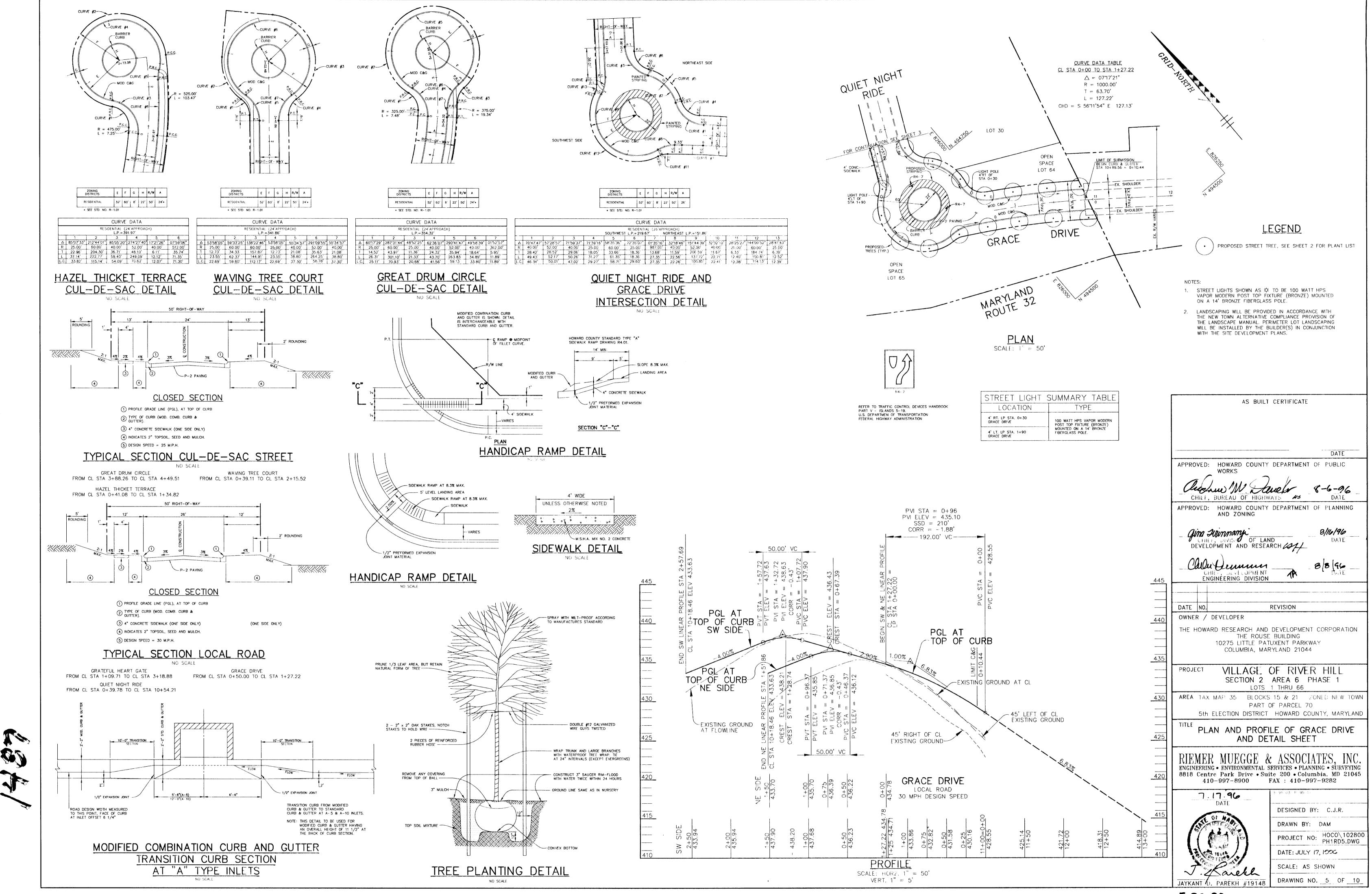
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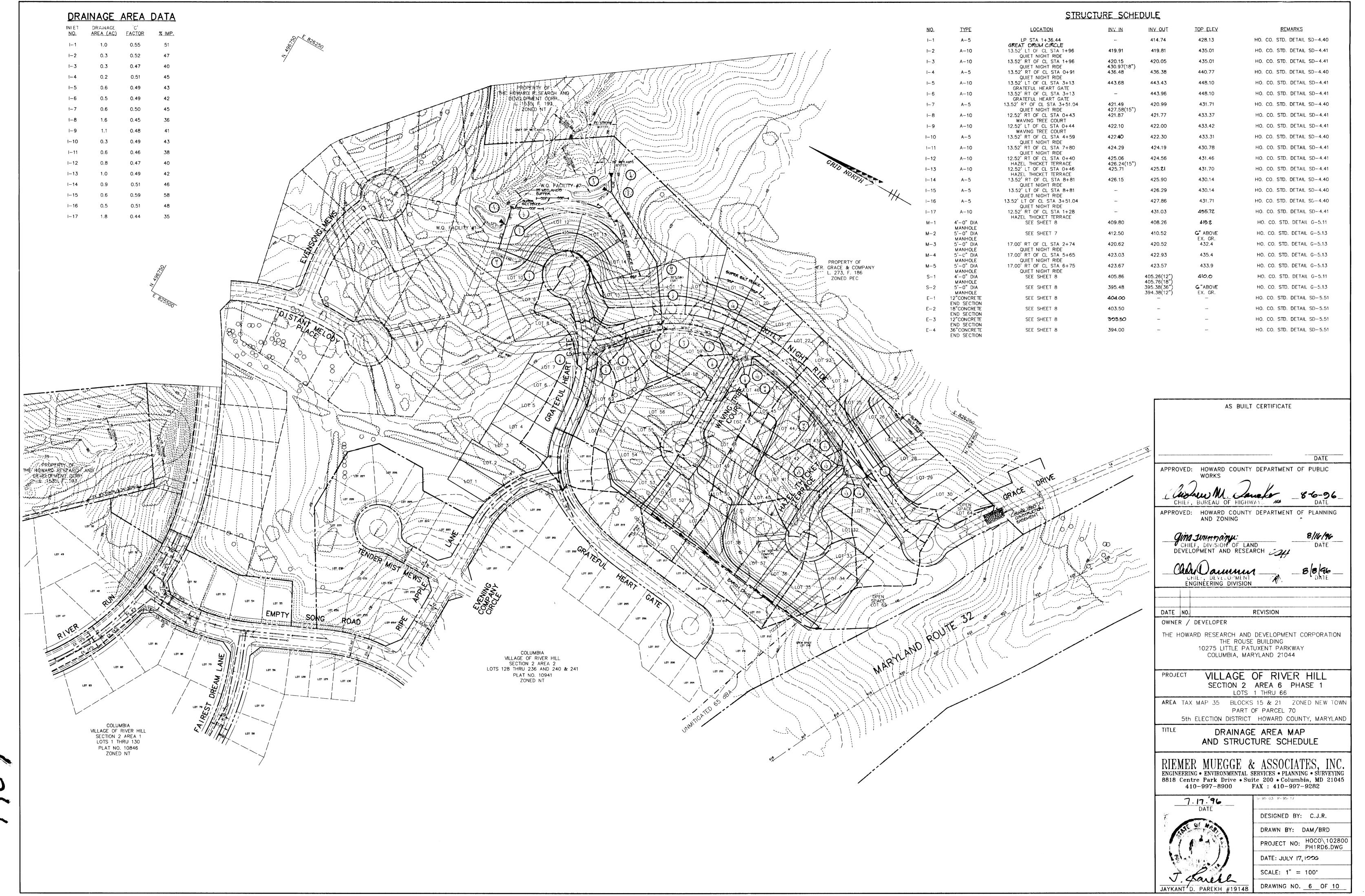




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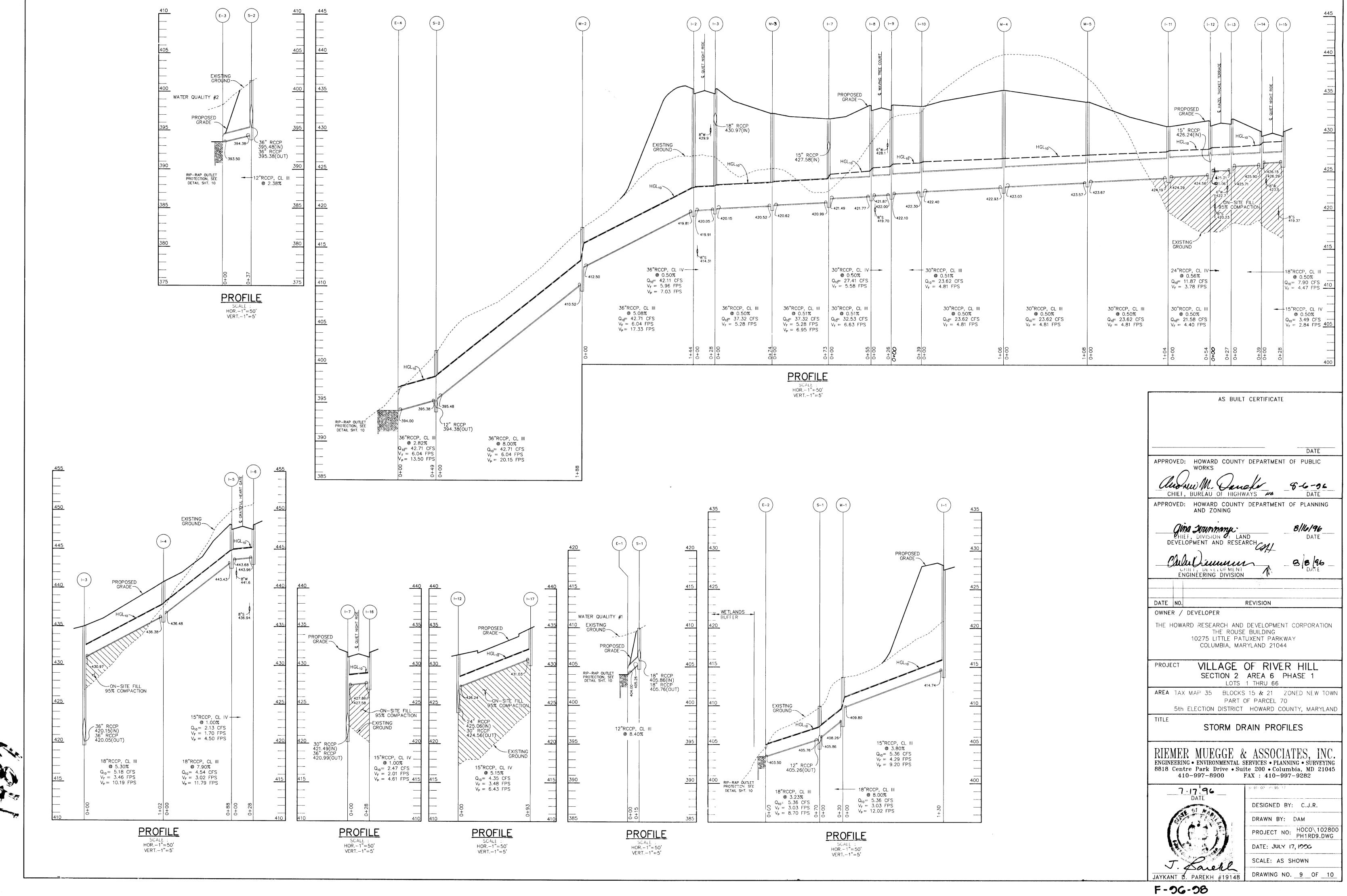
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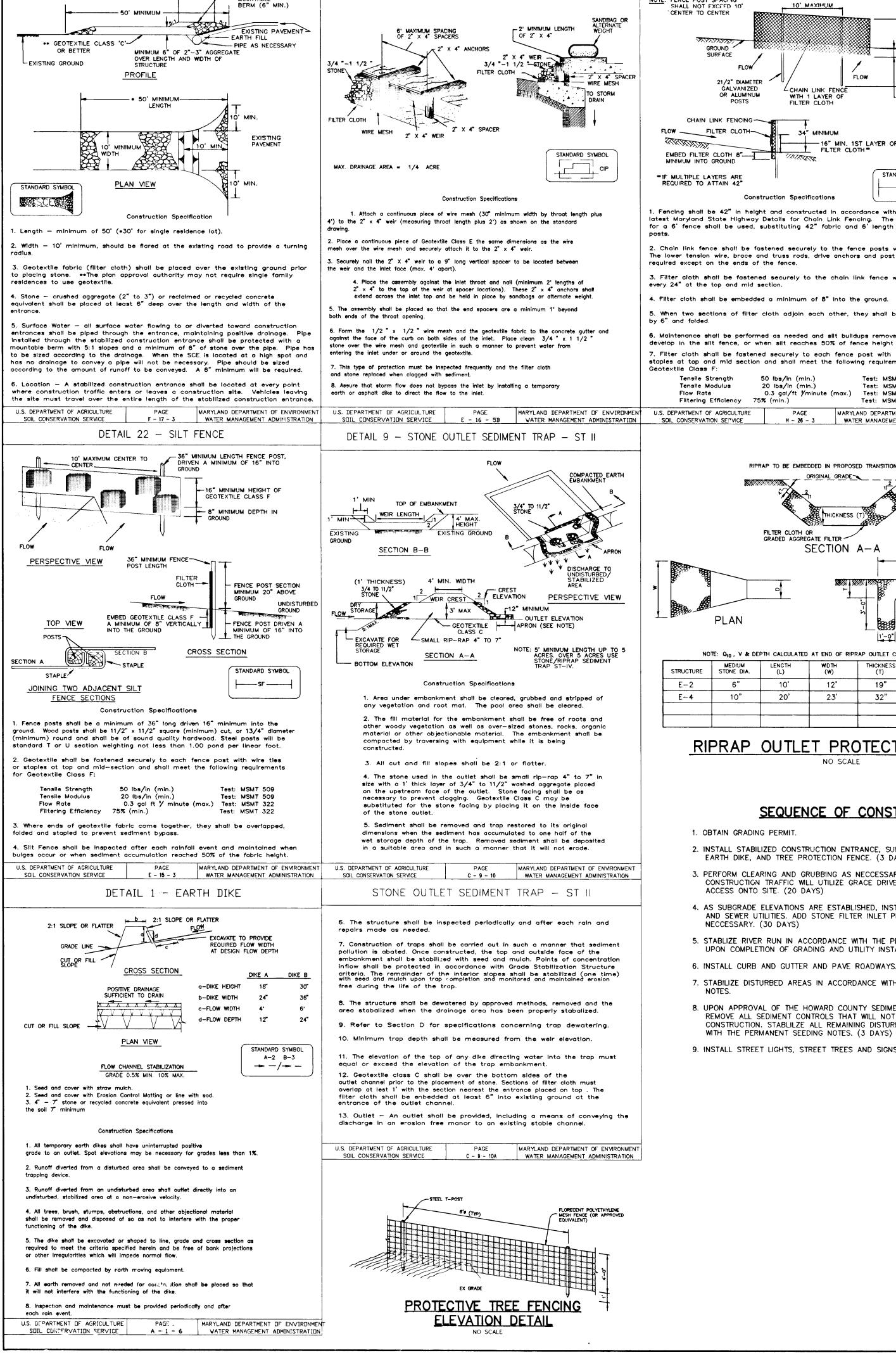
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DRAWING NO. 8 OF 10

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DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

NOTE: FENCE POST SPACING SHALL NOT EXCEPT 10' CENTER TO CENTER 10' MAXIMUM 36" MINIMUM FLOW 21/2" DIAMETER GALVANIZED WITH 1 LAYER OF FILTER CLOTH CHAIN LINK FENCING FLOW \_\_\_ FILTER CLOTH\_ 16" MIN. 1ST LAYER OF

DETAIL 33 - SUPER SILT FENCE

Construction Specifications 1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

4. Filter cloth shall be embedded a minimum of 8" into the ground. 5. When two sections of filter cloth adjoin each other, they shall be overlapped 6. Maintenance shall be performed as needed and silt buildups removed when "bulges"

50 lbs/in (min.)

20 lbs/in (min.)

Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following Test: MSMT 509 Test: MSMT 509 1) 2 tons per acre of well-anchored mulch straw and seed as soon 0.3 gal/ft 7/minute (max.) Test: MSMT 322

Test: MSMT 322

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

– SSF **–** 

3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain strow immediately after seeding.

Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a

Seedbed Preparation: Loosen upper three inches of soil by raking.

Soil Amendments; Apply 600 lbs. per gcre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For

the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as

Mulching: Apply 1-1/2 to 2 tons per gare (70 to 90 lbs. per 1000

sq.ft.) of unrotted small grain straw immediately after seeding.
Anchor mulch immediately after application using mulch anchoring tool

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further

Seedbed Preparation: Loosen upper three inches of soil by raking.

Soil Amendments: in lieu of soil test recommendations, use one of the following schedules:

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14

ibs. per 1000 sq.ft.) before seeding. Horrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).

Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into

upper three inches of soil.

as possible in the spring.

discing or other acceptable means before seeding, if not previously

possible in the spring, or use sod.

per 1000 sq.ft.) for anchoring. Maintenance : inspect all seeded areas and make needed repairs.

#### SEDIMENT CONTROL NOTES

A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).

 ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERETO.

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

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

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS
(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

6. 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. 7. SITE ANALYSIS:

17.96 ACRES

17.28 ACRES 1.89 ACRES 15.39 ACRES

35,000 CU.YDS.

TOTAL AREA OF SITE AREA DISTURBED
AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED

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

9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY

THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR

10. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION

11. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT

12. 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. TH CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY

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

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

BY THE DEVELOPER:

DEVELOPER

BY THE ENGINEER:

CONSERVATION DISTRICT.

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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 THE ENVIRONMENT 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.

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT

BASED ON MY PERSONAL KNOWLEDGE OF THE SITE

CONSERVATION DISTRICT AND MEET THE TECHNICAL

WITH THE REQUIREMENTS OF THE HOWARD SOIL

CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN

CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION

AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION

AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING

**REVISION** 

VILLAGE OF RIVER HILL

SECTION 2 AREA 6 PHASE 1

PART OF PARCEL 70

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL DETAILS AND NOTES AND LANDSCAPING PLAN

8818 Centre Park Drive, Columbia, Maryland 21045

tel 410.997.8900 fax 410.997.9282

LOTS 1 THRU 66

THE ROUSE BUILDING

10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MARYLAND 21044

Chronew M. Kareke

AND ZONING.

Jing Suunnanu

CHIEF, BUREAU OF HIGHWAYS #3

DEVELOPMENT AND RESEARCH

Mr. January

CHIEF, DEVELOPMENT

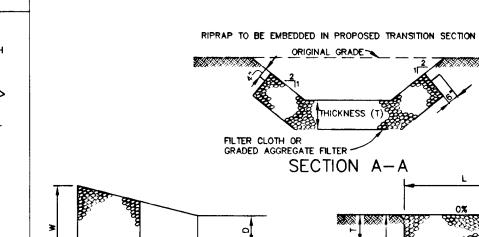
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7-17-96

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DATE



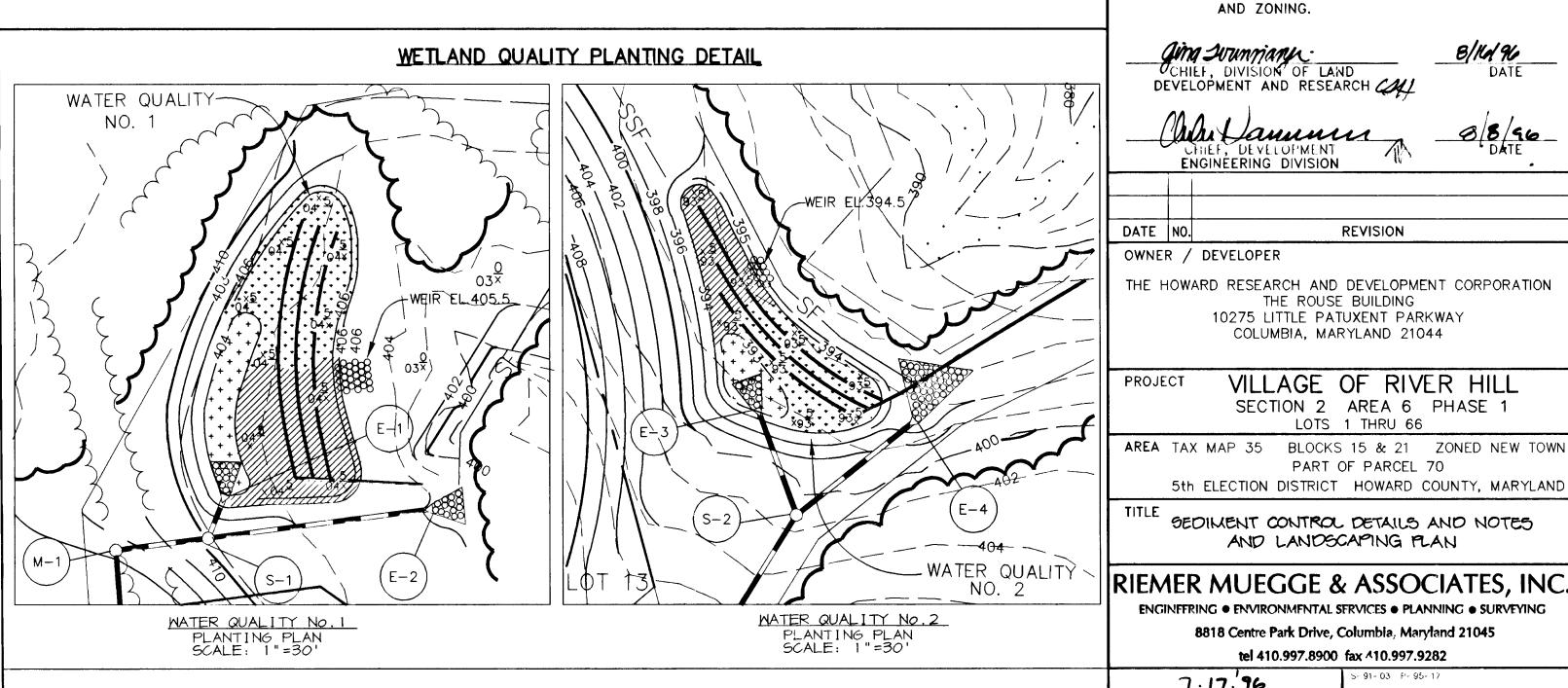
SECTION A-A NOTE: Que, V & DEPTH CALCULATED AT END OF RIPRAP OUTLET CHANNEL.

STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	Q <sub>10</sub>	٧	DEPTH
E-2	6"	10'	12'	19"	5.36 cfs	8.70 fps	17"
E-4	10"	20'	23'	32"	42.71cfs	13.50 fps	36"
		<u> </u>				<u> </u>	·

### RIPRAP OUTLET PROTECTION DETAIL

### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, SILT FENCE, EARTH DIKE, AND TREE PROTECTION FENCE. (3 DAYS)
- 3. PERFORM CLEARING AND GRUBBING AS NECCESSARY AND START ROUGH GRADING. CONSTRUCTION TRAFFIC WILL UTILIZE GRACE DRIVE (FORMERLY MILL ROAD) FOR ACCESS ONTO SITE. (20 DAYS)
- 4. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS, WATER AND SEWER UTILITIES. ADD STONE FILTER INLET PROTECTION ON INLETS AS
- 5. STABLIZE RIVER RUN IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES, UPON COMPLETION OF GRADING AND UTILITY INSTALLATION.
- 6. INSTALL CURB AND GUTTER AND PAVE ROADWAYS. (10 DAYS)
- 7. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING
- 8. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROLS THAT WILL NOT BE USED FOR HOUSE CONSTRUCTION. STABLILZE ALL REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (3 DAYS)
- 9. INSTALL STREET LIGHTS, STREET TREES AND SIGNS AS REQUIRED. (5 DAYS)



WATER QUALITY PLANTING SPECIFICATIONS

PLANT SPECIES REQUIRED ARE NORMALLY UNAVAILABLE FROM STANDARD LANDSCAPE NURSERY SOURCES. THE CONTRACTOR MUST MAKE ARRANGEMENTS WITH COMPETENT METLANDS RESTORATION SPECIALISTS TO INSURE A SUPPLY OF THE REQUIRED MATERIAL

THE CONTRACTOR AND/OR THEIR SUBCONTRACTOR SHOULD BE AWARE OF THE SITE DESIGN CONDITIONS AND SHOULD TAKE ALL PRUDENT STEPS TO INSURE THAT THE PLANT MATERIAL SPECIFIED ON THE PLANS IS PROPERLY ACCLIMATED. IF THE PLANT MATERIAL IS AVAILABLE FROM SOURCES WHERE WETLAND CONDITIONS ARE DUPLICATED AT THE NURSERY, THE CONTRACTOR SHOULD FAYOR THESE

SOURCES AS THE SUPPLIER. 3. IT IS RECOMMENDED THAT PLANTING BE COMPLETED EARLY IN THE SPRING WATER QUALITY PLANTING SCHEDULE SPECIES SIZE SPACING

1825 JUNCUS EFFUSUS ROOTS 2' O.C. 1305 PELTANDIRA ARROW ARUM

I QT. POT 1.5' O.C. VIRGINICA

2190 SCIRPUS PUNGENS 1-3/4" PEAT POT COMMON THREE SQUARE

Barell

DESIGNED BY: C.J.R. DRAWN BY: DAM

HOCO\102800 PROJECT NO: PH1RD10.DWG DATE: JULY 17, 1996 SCALE: AS SHOWN

DRAWING NO. 10 OF 10

D. PAREKH #19148

F-26-28