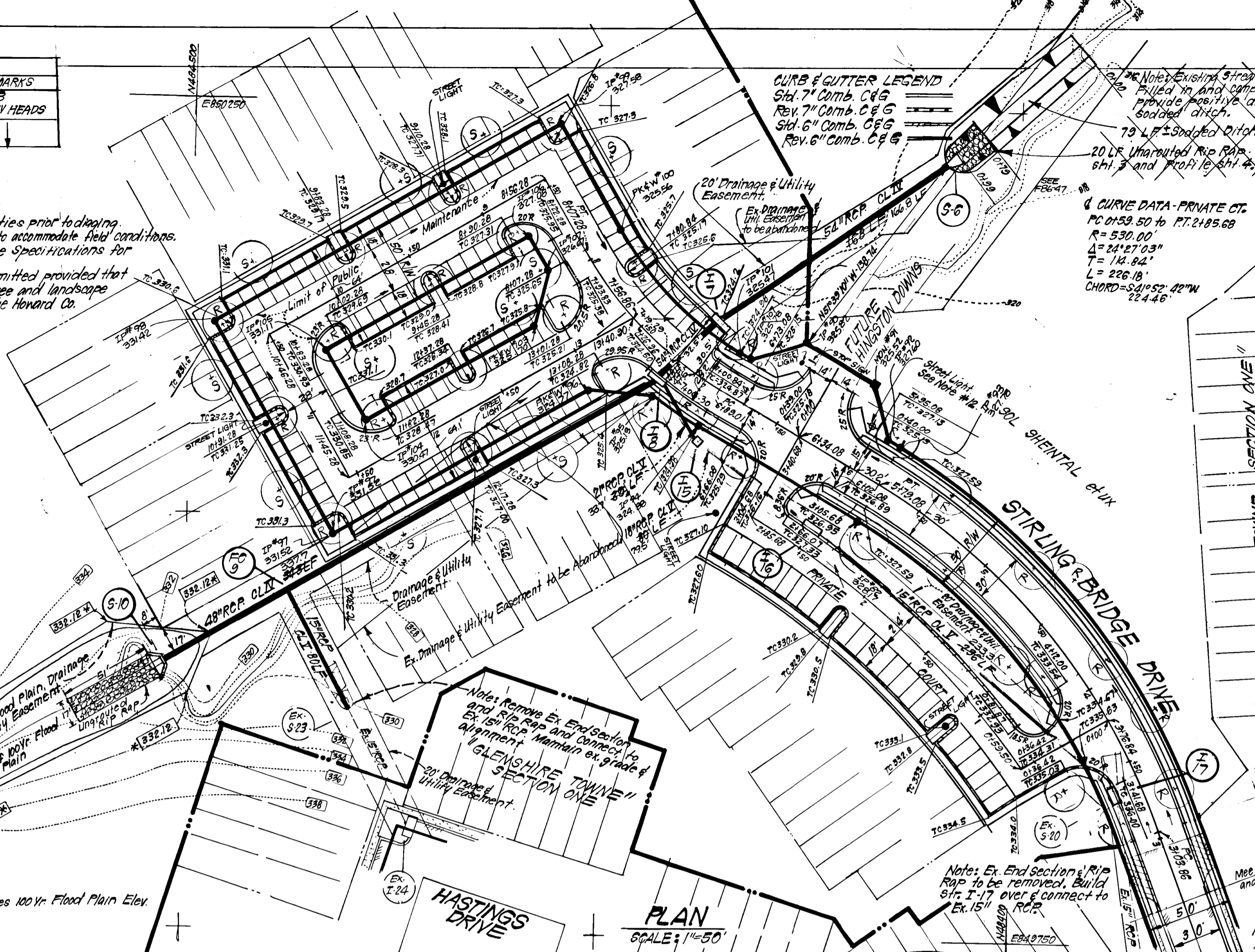


PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUANT.	REMARKS
(S)	LIQUID AMBER SYRACUSIA SWEET GUM	2 1/2" CAL MIN.	12	B&B HEAVY HEADS
(R)	QUERCUS RUBRA NORTHERN RED OAK		34	

STREET TREE NOTES:
 1. Contractor shall verify location of underground utilities prior to digging.
 2. Final locations of trees may be adjusted slightly to accommodate field conditions.
 3. Planting procedures shall comply with "Landscape Specifications for Baltimore - Washington Metropolitan Area."
 4. Substitutions to the above species may be permitted provided that the planting is in accordance with the street tree and landscape requirements as specified in section 16.13 of the Howard Co. Subdivision Regulations.

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 Signature of Developer/Builder: *Thomas J. Aud*
 Date: 12/18/84

NO.	REVISION	DATE
1	Revised Parking Bay at Str. I-7	9-18-84



CURB & GUTTER LEGEND
 Std. 7" Comb. C&G
 Rev. 7" Comb. C&G
 Std. 6" Comb. C&G
 Rev. 6" Comb. C&G

CURVE DATA - PRIVATE CT.
 PC: 6189.50 to PT: 2185.68
 R = 530.00'
 $\Delta = 242.703^\circ$
 T = 14.84'
 L = 226.18'
 CHORD = 224.46'

CURVE DATA
 PC: 6189.00 to PT: 8107.28
 R = 225.00'
 $\Delta = 307.02^\circ$
 T = 60.54'
 L = 118.27'
 CHORD = 142.38 42'E

CURVE DATA
 PC: 3183.06 to PT: 5179.08
 R = 335.00'
 $\Delta = 33.5517^\circ$
 T = 143.46'
 L = 275.22'
 CHORD = 149.32 50'E 269.63'

Reviewed for: *John A. O'Connell* S.C.D.
 Name: *John A. O'Connell*
 Signature: *John A. O'Connell*
 Date: 7-12-85
 U.S. Soil Conservation Service

THIS SURVEY PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *Stephen L. Aud*
 Date: 7-12-85

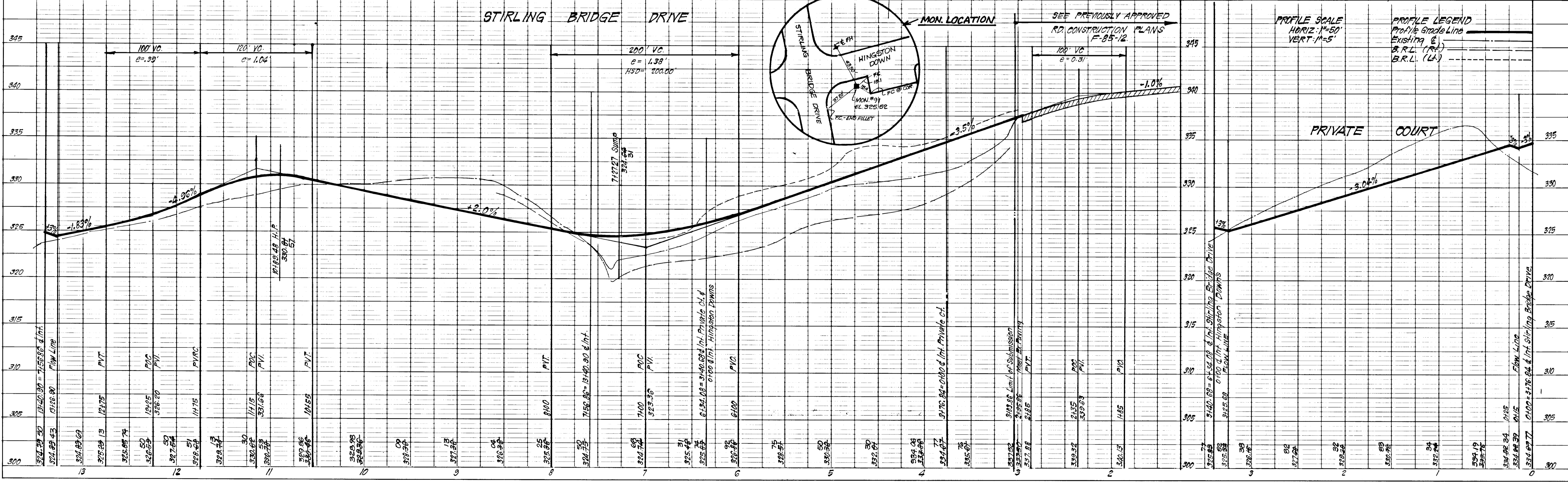
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: *G. Nelson Clark*
 Date: 12-18-84

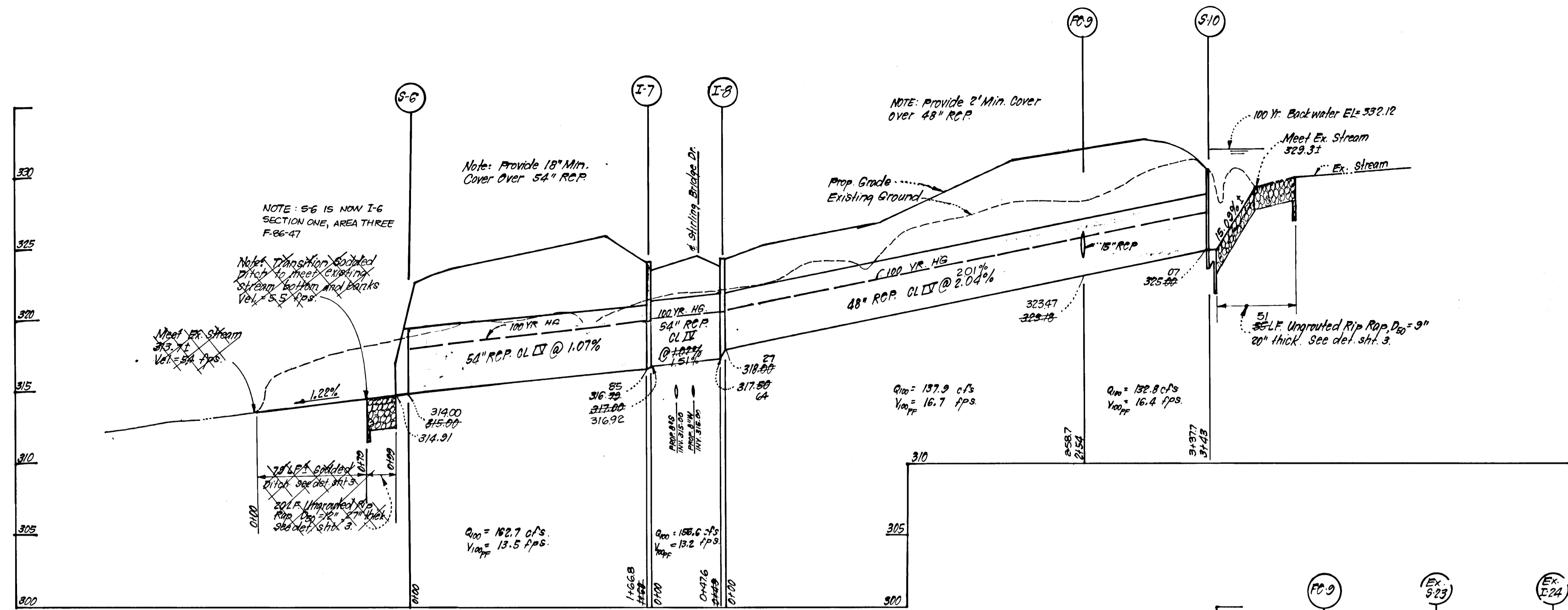
- GENERAL NOTES**
- All storm drain and paving shall be constructed in accordance with the latest details and Specifications of Howard County & Md SHA.
 - Types of Storm Drain structures refer to the Standard Details of Howard County and Maryland State Highway Administration.
 - Trench Compaction for storm drains within Road or Street Rights-of-Way limits shall be in accordance with Howard Co. Design Manual Vol. IX (Class C Trench Bedding) to be used under all storm drains, except where shown otherwise.
 - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elev. of the mains by digging test pits, by hand, at all crossings, well in advance of construction.
 - All utility companies shall be notified 24 hrs in advance of construction.
 - All traffic control devices, parking, and signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
 - Sag or Crest Vertical curves were designed in accordance with Howard County Design Manual Volume III.
 - Provide Concrete Sidewalk Ramps, Ho. Co. Std. Type A, R-4.01 where shown in plan.
 - Design Speed: 30 mph.
 - Storm Water Management Provided in Central Facility for Glenshire Towne, Sect. 1, F-85-12.
 - Contractor or Developer shall contact the Construction Inspection/Survey Division 24 hours before commencing work at 7:30, 7:12.
 - Provide 175 Watt Modern Mercury Vapor Lamp Post Top Fixture on a 14" Gray Fiberglass Pole at Sta. 6100 ± Rt. Stirling Bridge Dr. Street light to be located in accordance with Ho. Co. Design Manual Vol. IX.

APPROVED: Department of Public Works
 Signature: *John A. O'Connell*
 Date: 7-11-85
 Chief, Bureau of Engineering
 APPROVED: Howard County Office of Planning & Zoning
 Signature: *John W. Murchison*
 Date: 7-12-85
 Chief, Division of Land Development & Zoning Administration

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 ENGINEERS • PLANNERS • SURVEYORS
 11314 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

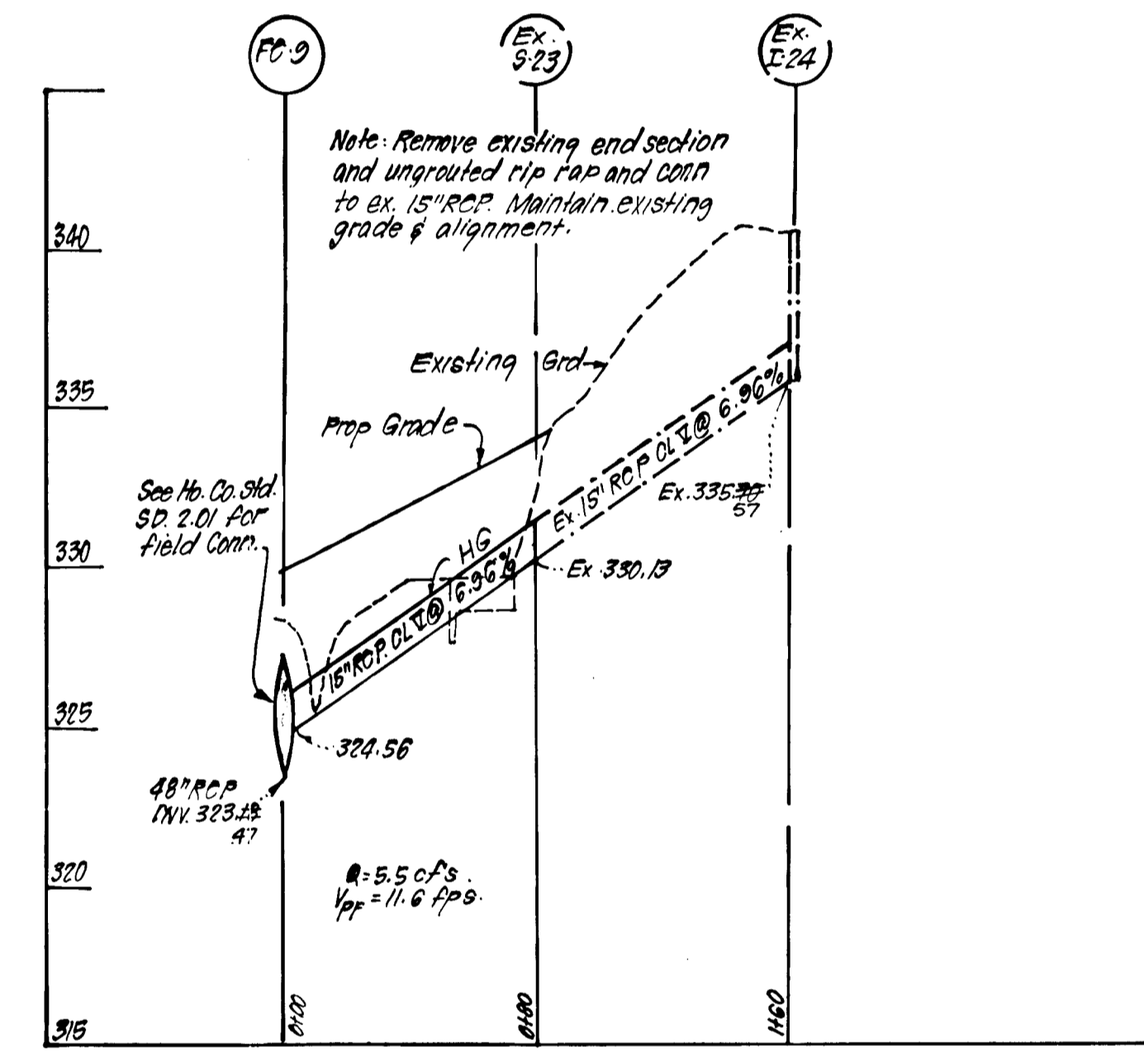
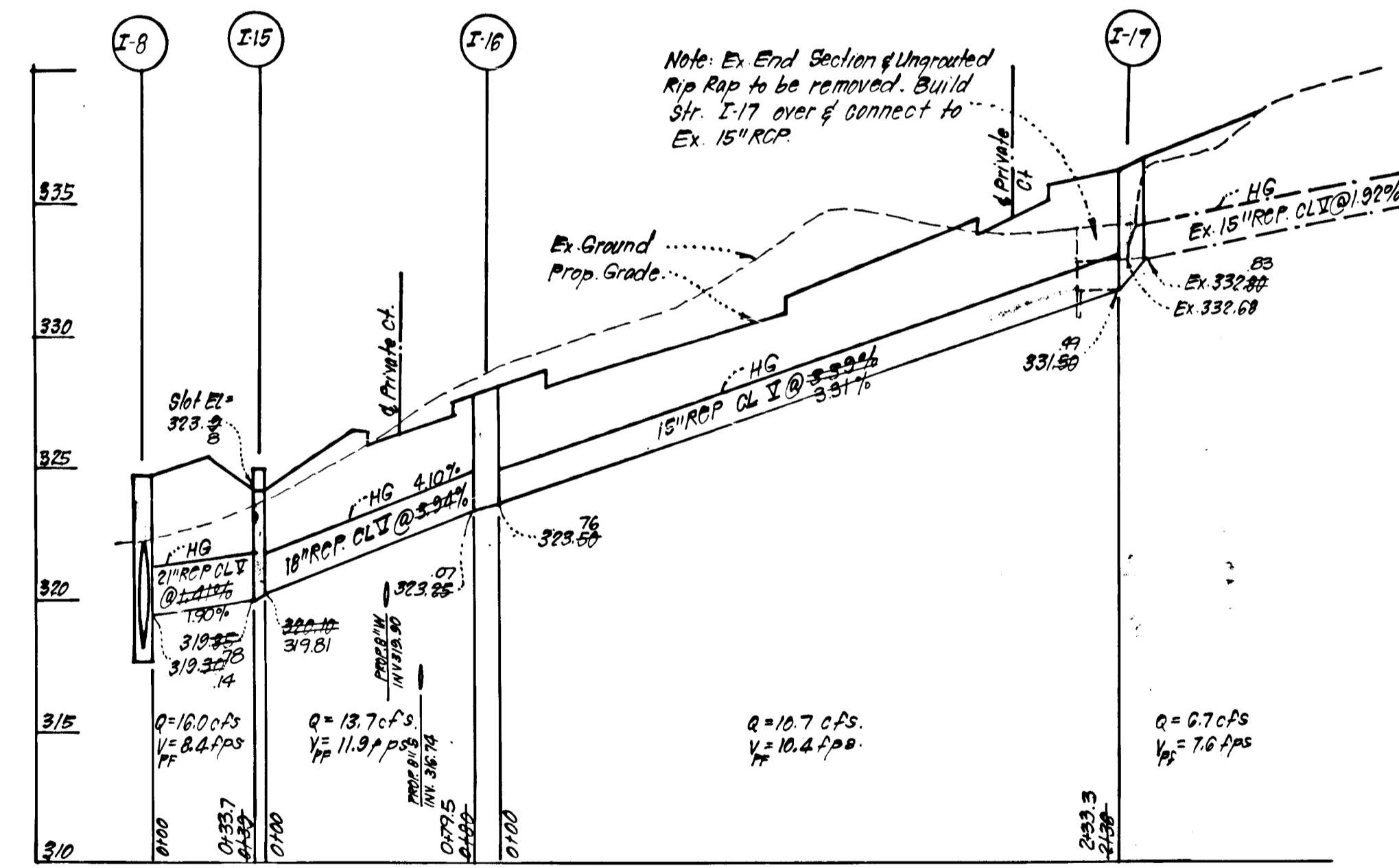
DESIGNED	ROAD CONSTRUCTION PLANS	SCALE
VLS	STIRLING BRIDGE DRIVE	AS SHOWN
DRAWN	GLENSHIRE TOWNE	DRAWING
KIW	SECTION TWO	10F4
CHECKED	6TH ELECTION DISTRICT	JOB NO.
VLS	HOWARD COUNTY, MARYLAND	81-060
DATE	FOR: PULTE HOME CORP.	FILE NO.
7-10-85	1120 New Hampshire Ave.	81-080-D
	Silver Spring, Md 20904	





STORM DRAINAGE PROFILES

SCALES HORIZ: 1"=50'
VERT: 1"=5'



AS-BUILT SURVEY CERTIFIED BY DONALD B. SACKETT, MD. P.E. No. 6059 ON 3-16-88

STRUCTURE SCHEDULE

No.	TYPE	INV		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	INT'L	LOW'ER		
F-6	End Section AS Inlet	315.00	314.91	-	-	No. Co. Std. SD 5.51 54" Dia. See Plan	
F-7	A-10 Inlet	317.82	316.79	324.22	323.96	" SD 4.02 W=3'6" 48" Dia. 7/18/46 14' Lt	
F-8	A-10 Inlet	317.82	317.82	324.22	323.96	" SD 2.01 15" x 48" See Plan	
PC-9	Field Connection	-	-	-	-	" SD 5.11 48" Dia See Plan	
S-10	A End Wall	325.00	325.00	324.33	323.63	" SD 4.11 3'0" Dia 48" Dia 6/85 34' Lt	
F-15	D Inlet	329.50	329.50	329.50	329.50	" SD 4.02 W=3'6" 48" Dia 2/82/11 12' Lt	
F-16	A-10 Inlet W/Deflec	329.50	329.50	329.50	329.50	" SD 4.02 W=3'6" 48" Dia 2/82/11 12' Lt	
F-17	A-10 Inlet W/Deflec	332.80	332.80	336.21	336.04	" SD 4.02 W=3'6" 48" Dia 2/82/11 12' Lt	

PIPE SCHEDULE

SIZE	TYPE	LENGTH	
15"	RCP CL V	316 LF	313.3 LF
18"	RCP CL V	80 LF	79.5 LF
21"	RCP CL V	39 LF	33.7 LF
48"	RCP CL IV	343 LF	337.7 LF
54"	RCP CL IV	217 LF	214.4 LF

DEVELOPER/BUILDERS CERTIFICATE

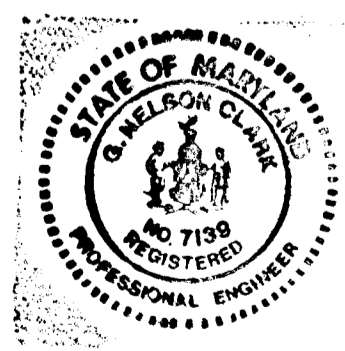
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Thomas J. ... 12/18/84

ENGINEER'S CERTIFICATE

I hereby 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.

Stephen J. ... 7-18-85



APPROVED: Department of Public Works

John W. ... 7-16-85

APPROVED: Howard County Office of Planning and Zoning

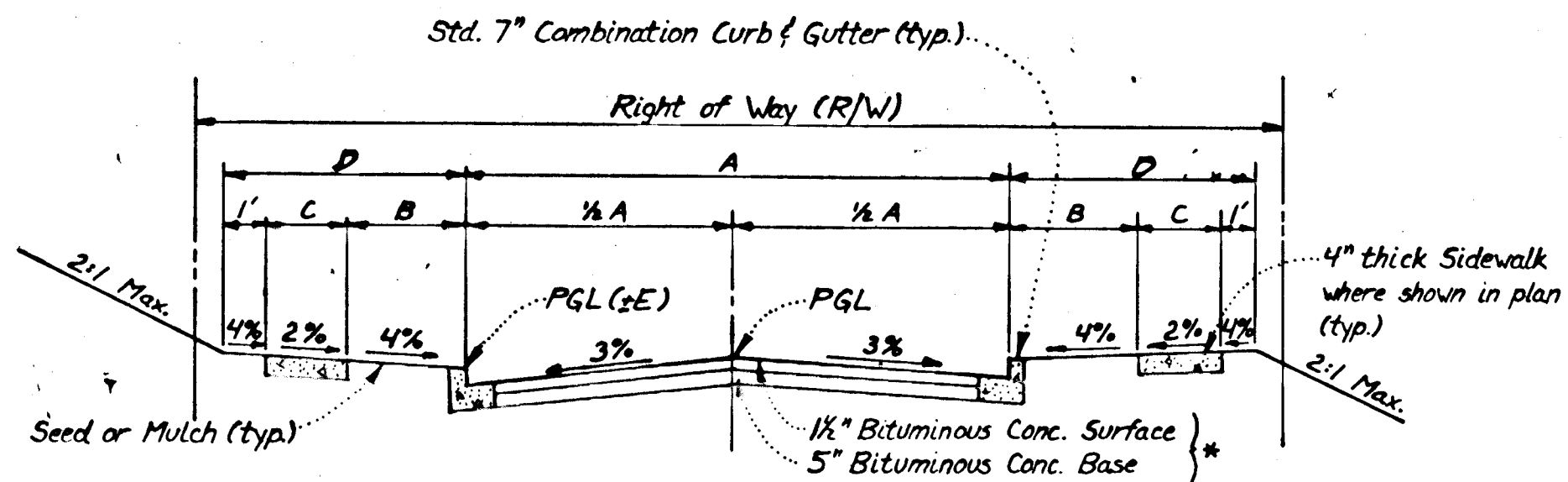
John W. ... 7-12-85

CLARK • FINEFRICK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED: JLS
DRAWN: K/W
CHECKED: JLS
DATE: 7-10-85

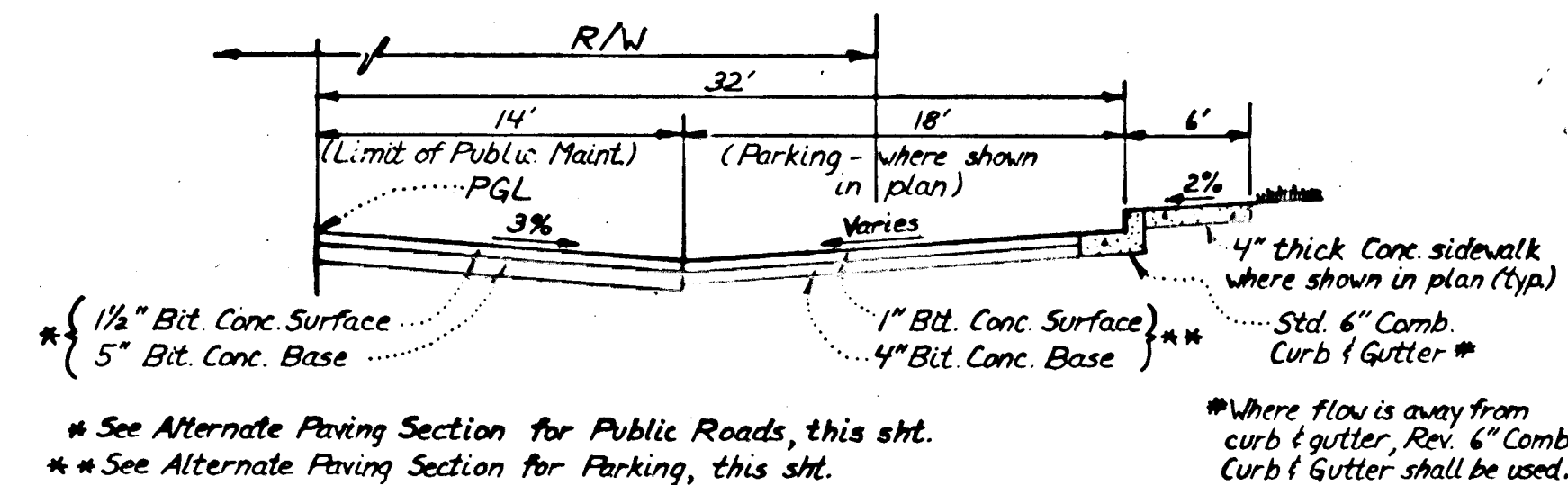
SCALE: AS SHOWN
DRAWING: 2 OF 4
JOB NO.: 81060
FILE NO.: 81060-D

ROAD CONSTRUCTION PLANS
STORM DRAIN PROFILES
GLENSHIRE TOWNE
SECTION TWO
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: PULTE HOME CORP.
11120 NEW HAMPSHIRE DRIVE
SILVER SPRING, MD 20904



TYPICAL PAVING SECTION - PUBLIC ROADS

For Alternate Paving Section - See det. this sht.

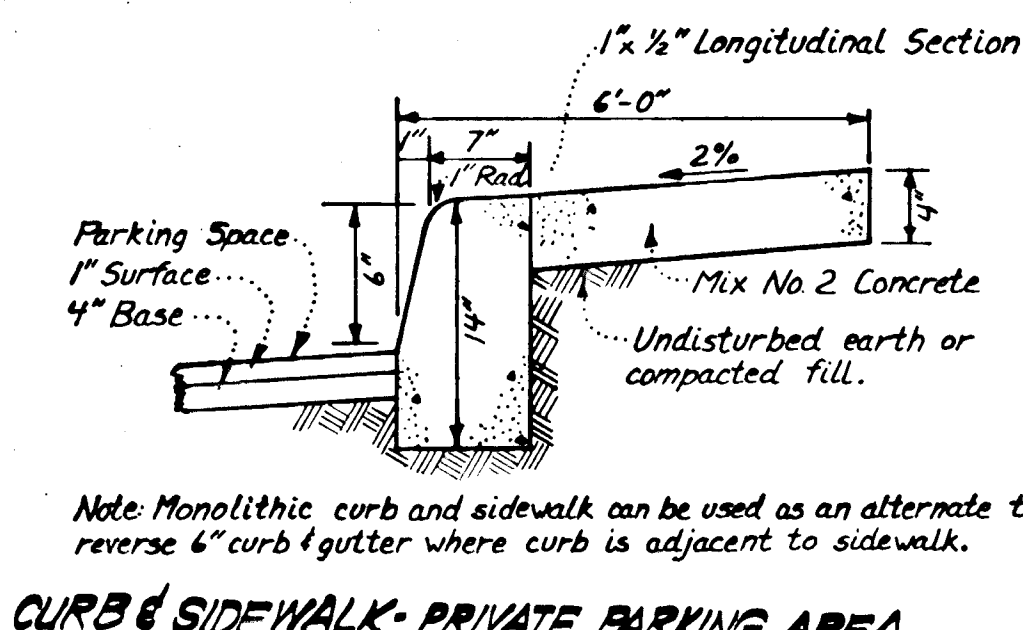


TYPICAL HALF SECTION PARKING ADJACENT TO PUBLIC ROADS

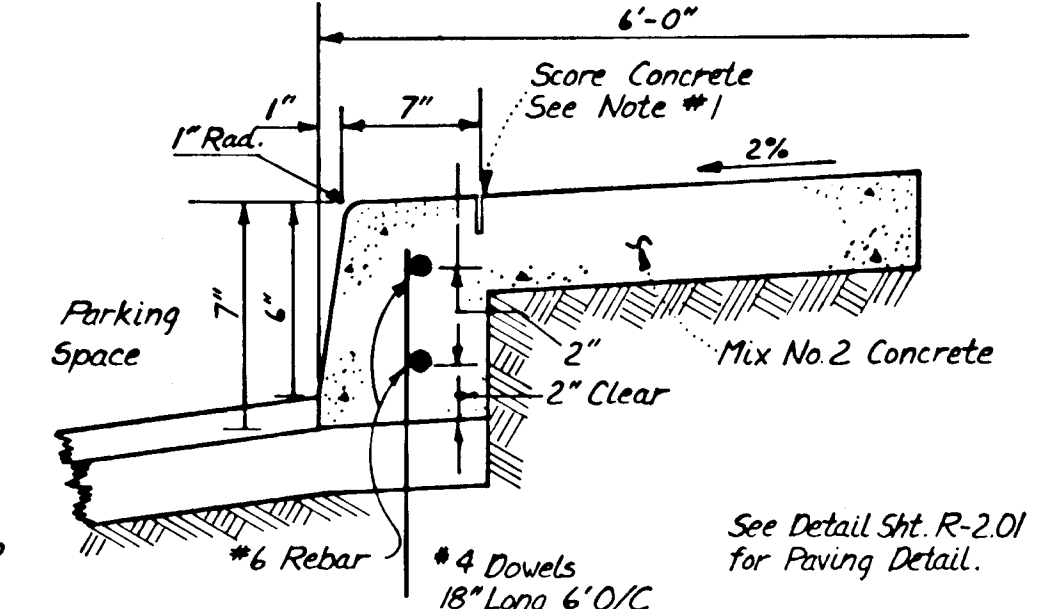
See Alternate Paving Section for Public Roads, this sht.
See Alternate Paving Section for Parking, this sht.

Notes:

- Longitudinal joint between sidewalk & curb shall be continuous and to a depth of 1/4 the thickness of the sidewalk or 1" longitudinal joints shall run from back edge of sidewalk continuous to the bottom face of curb to a depth of 1/4 the sidewalk thickness or 1" and spaced 5' apart.
- Provide 1/2" expansion joints at 15' intervals. In latitudinal joints to full cross-section.

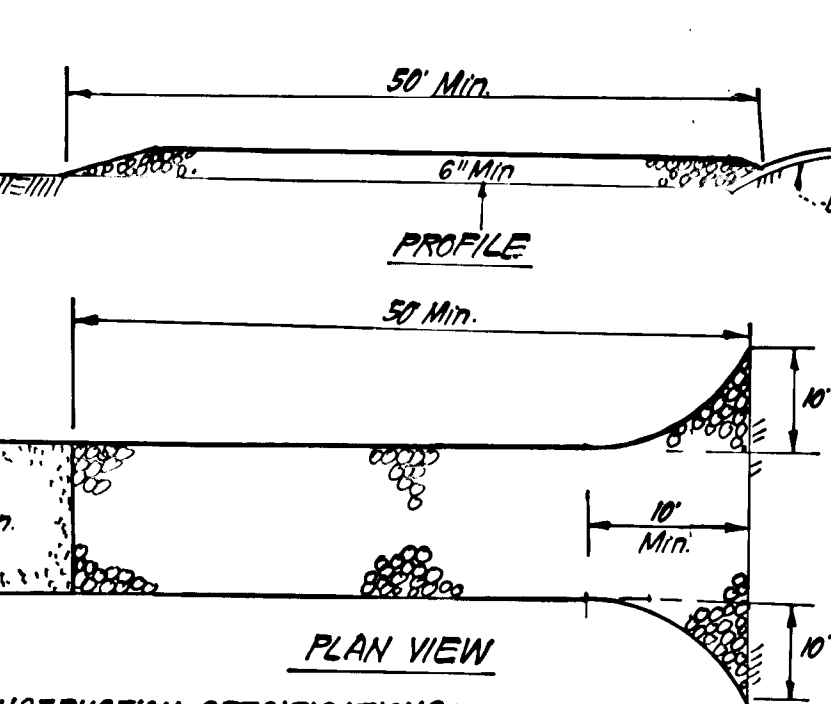
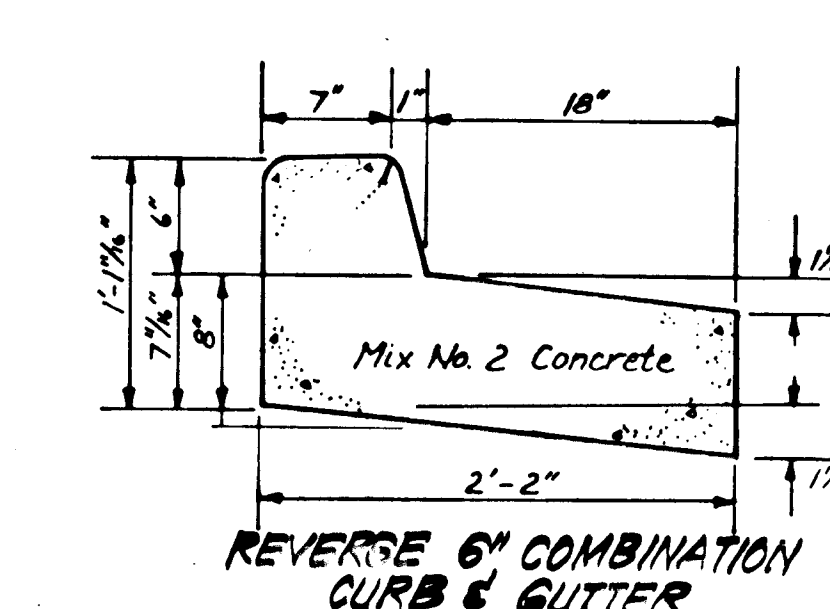
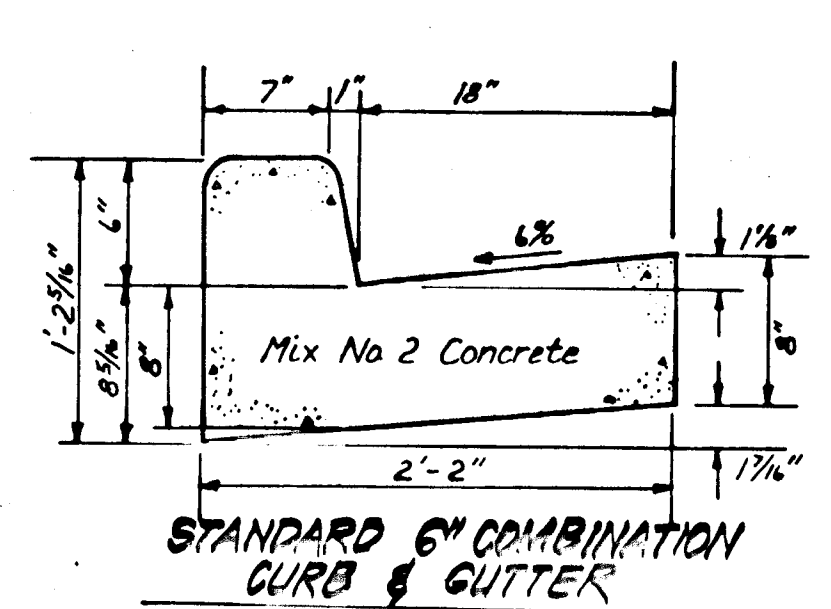
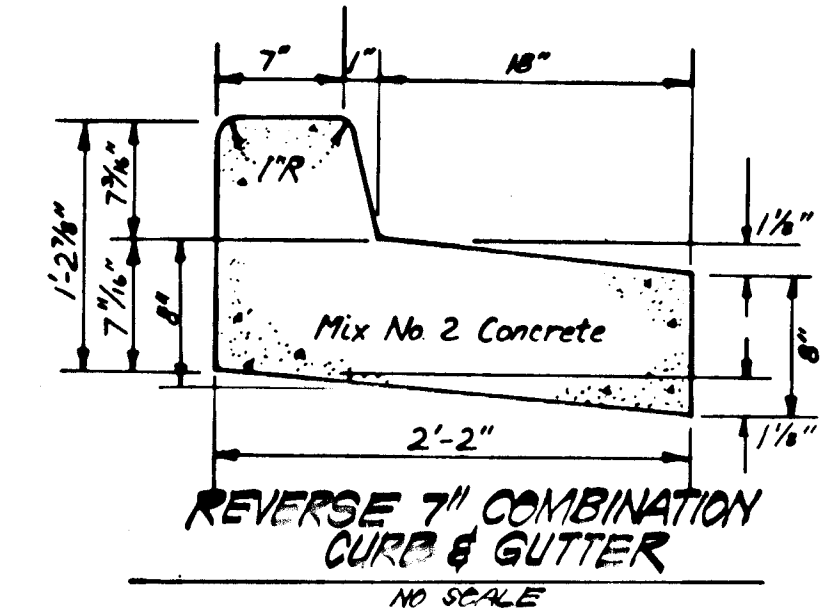
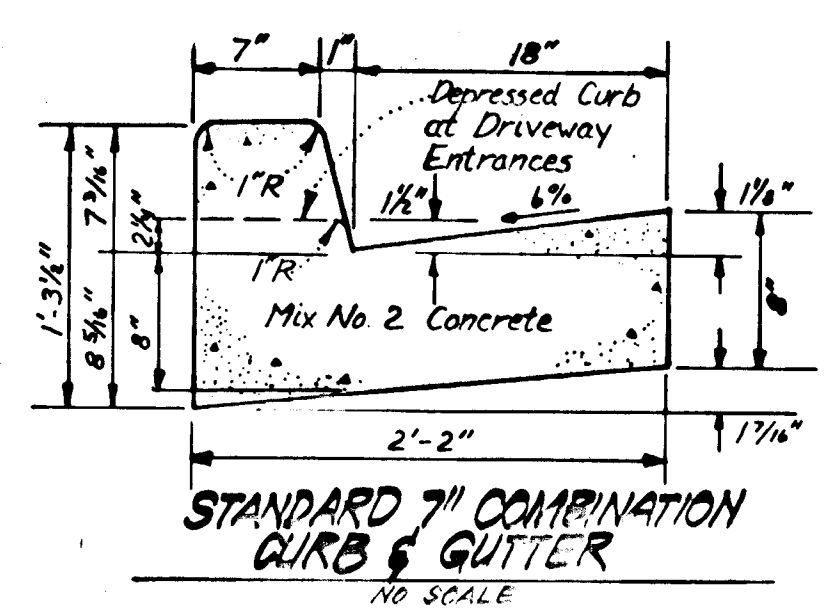


MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA



ALTERNATE SECTION

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
Shirling Bridge Drive Sta 6133.96 to 6134.08	LOCAL	3'	4'	4'	5'	50'	RSA	30 mph	10'
Shirling Bridge Drive Sta 6134.08 to 7106.97	CUL DE SAC	28'	4'	4'	5'	50'	RSA	30 mph	14'



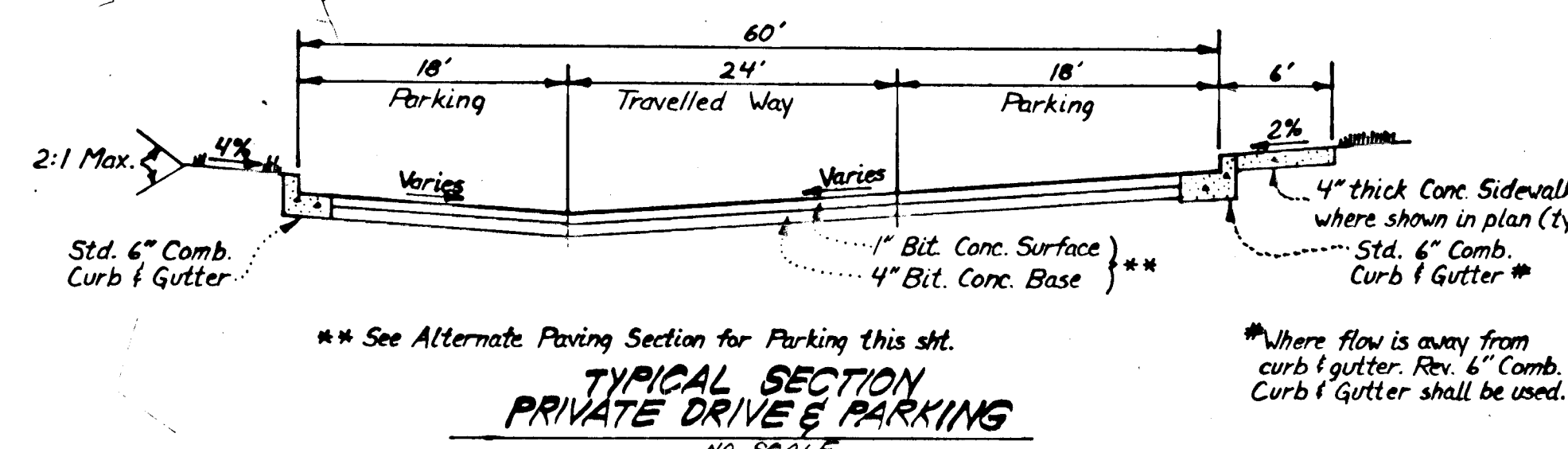
- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Depth - As required, but not less than 50 feet (except on a single residence lot where a 150 min. length would apply).
 - Thickness - Not less than 6".
 - Width - Ten foot min, but not less than the full width at point where ingress occurs.
 - Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or removal of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)

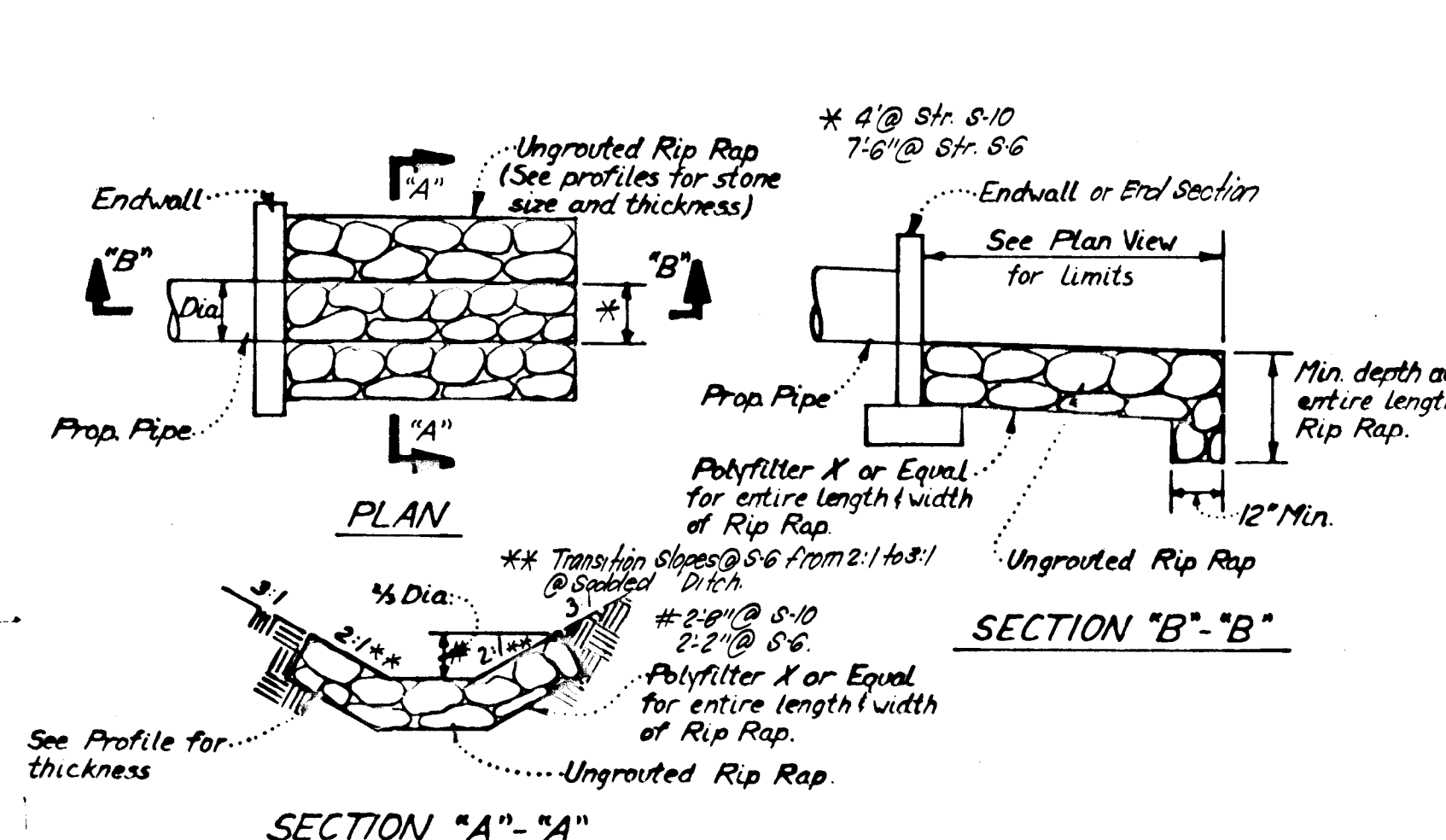
DEVELOPER'S/BUILDER'S CERTIFICATE

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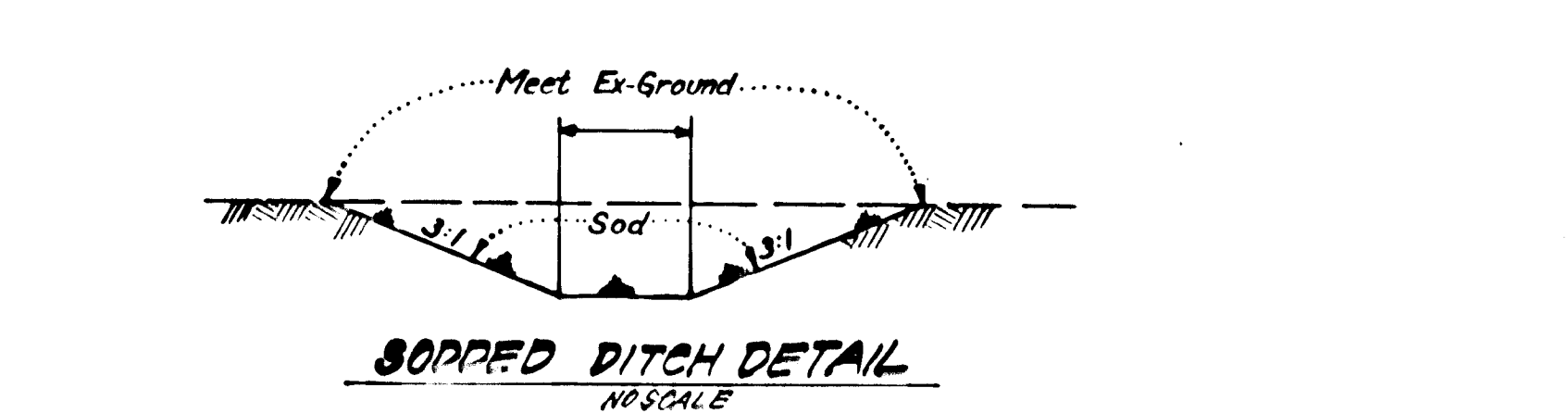
Signature of Developer/Builder: *[Signature]* Date: 12/18/84



TYPICAL SECTION PRIVATE DRIVE & PARKING



UNGRADED RIP RAP PAVING DETAILS



SODDED DITCH DETAIL

- GENERAL SODDING NOTES:**
- Apply 10-10-10 Fertilizer @ 1000#/acre (25#/1000sf)
 - Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000sf)
 - Incorporate both Lime and Fertilizer into soil by discing. Firm up after incorporation.
 - Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for 1st 2 weeks, in summer, to ensure establishment.
 - All sod to be used must be certified by the state of Maryland.
 - Sod to be pegged and stapled.

Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/4"
Prime	
8" Crusher Run Base (Placed in 2 Courses)	8" or 6"
6" Dense Graded Stabilized Aggregate Base Course	6"

ALTERNATE PAVING SECTION FOR PUBLIC ROADS

Bituminous Conc. Surface	1"
Bituminous Conc. Base	2"
Prime	
5" Crusher Run Base Course	5" or 4"
4" Dense Graded Stabilized Aggregate Base Course	4"

ALTERNATE PAVING SECTION FOR PARKING AREAS

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.

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 square 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 30-0-0 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 unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/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 possible in the spring, or use sod.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted 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 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

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

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 redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 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.
- 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 seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding 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	0.376 Acres
Area Disturbed	0.200 Acres
Area to be roofed or paved	1.500 Acres
Area to be vegetatively stabilized	3.700 Acres
Total Cut	4120 Cu. yds
Total Fill	14680 Cu. yds
Offsite waste/borrow area location	N/A
- 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 control must be provided, if deemed necessary by the Howard County DW 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 building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 0 L.P.

AS-BUILT SURVEY CERTIFIED BY DONALD B. SACKETT, MD. P.E. No. 6059 ON 3/16/88

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 7-15-85 Date
 Chief, Bureau of Engineering
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 7-12-85 Date
 Chief, Division of Land Development & Zoning Administration

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 583-3400		
DESIGNED	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS AND NOTES & PAVING DETAILS	SCALE
DRAWN	JLS	AS-SHOWN
CHECKED	K/W	DRAWING
DATE	JLS	3 OF 4
	7-10-85	JOB NO.
		81-060
		FILE NO.
		81-060-D

Reviewed for Howard S.E.D. Name and meets Technical Requirements
[Signature] 7-10-85 Date
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 7/12/85 Date
 Approved

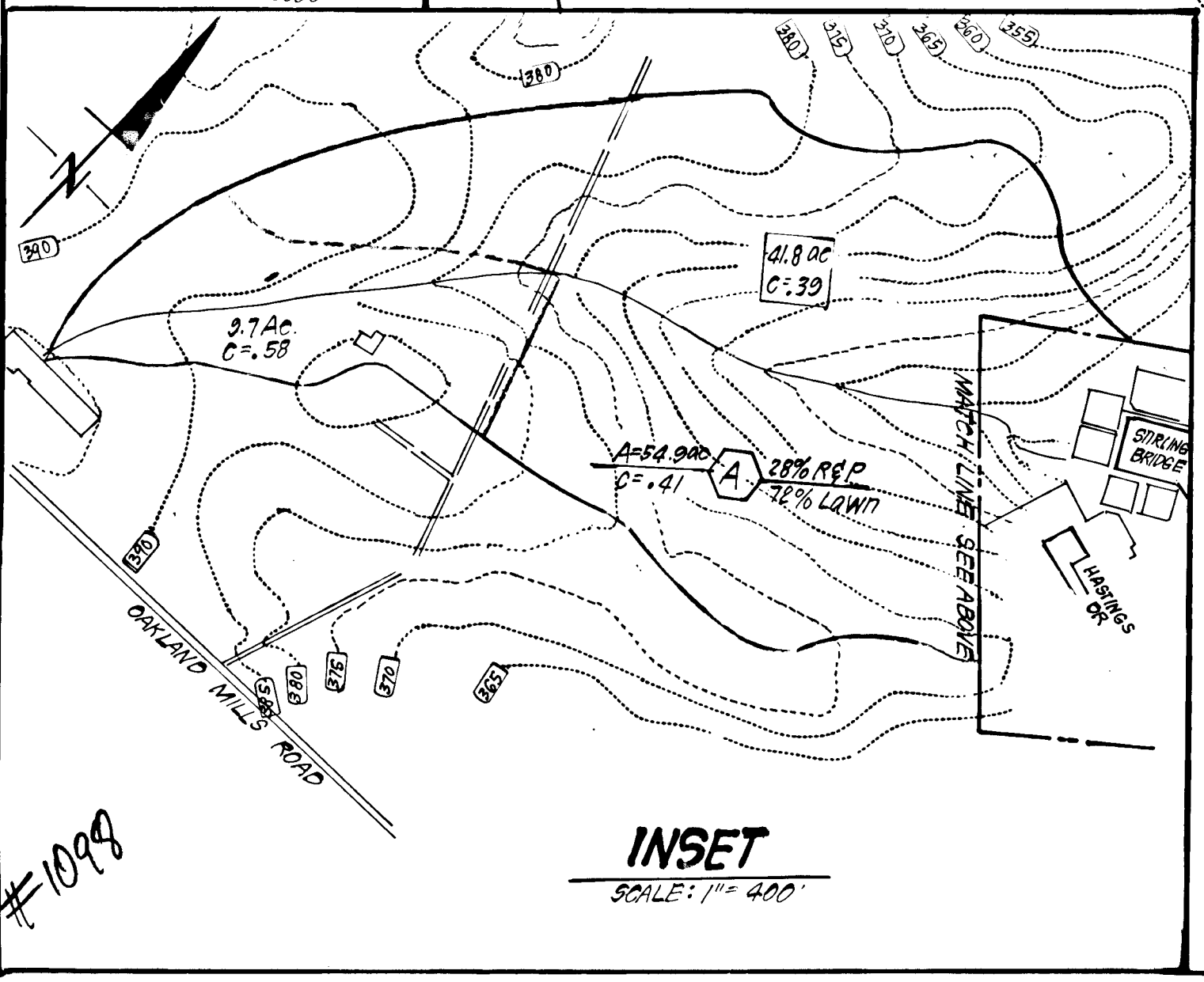
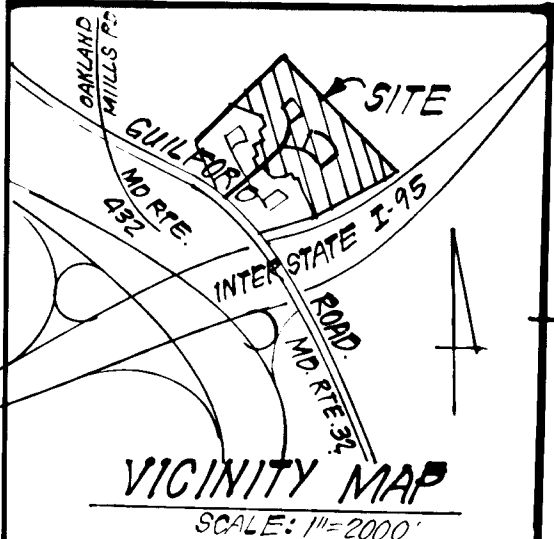
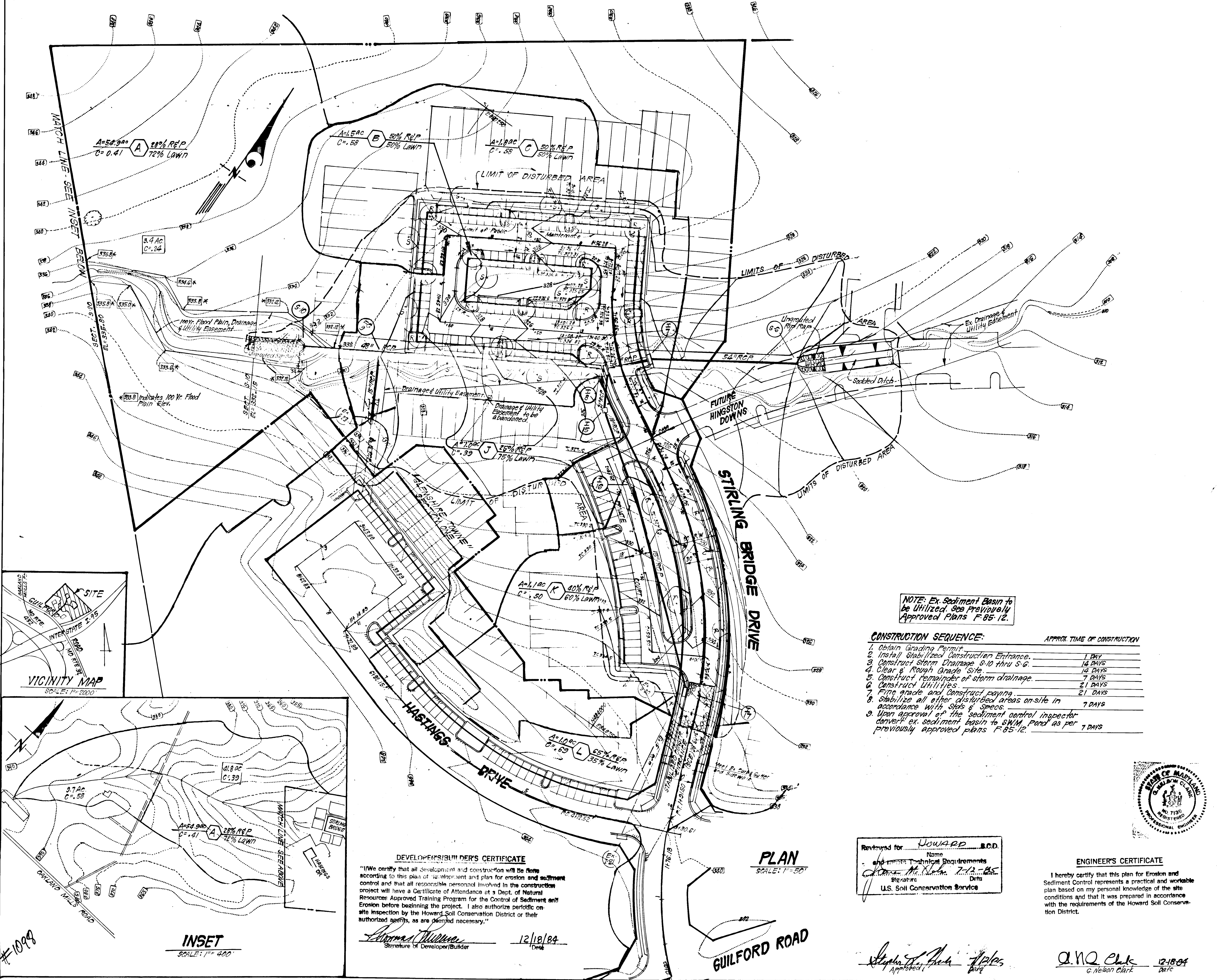
ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 7-18-84 Date
 S. Nelson Clark



#1098



NOTE: Ex. Sediment Basin to be Utilized. See Previously Approved Plans F-85-12.

CONSTRUCTION SEQUENCE:

CONSTRUCTION SEQUENCE	APPROX. TIME OF CONSTRUCTION
1. Obtain Grading Permit.	1 DAY
2. Install Stabilized Construction Entrance.	14 DAYS
3. Construct Storm Drainage S-10 thru S-6.	12 DAYS
4. Clear & Rough Grade Site.	7 DAYS
5. Construct remainder of storm drainage.	21 DAYS
6. Construct Utilities.	21 DAYS
7. Fine grade and Construct paving.	7 DAYS
8. Stabilize all other disturbed areas on-site in accordance with Specs & Specs.	7 DAYS
9. Upon approval of the sediment control inspector, divert ex. sediment basin to SWM. Fund as per previously approved plans F-85-12.	7 DAYS

NOTE: SEE SHEET 3 FOR SEDIMENT & EROSION CONTROL NOTES & DETAILS.

AS-BUILT SURVEY CERTIFIED BY
DONALD B. SACKETT, MD. P.E. No.
6059 ON 3-16-88

DEVELOPER/BUILDER'S CERTIFICATE
"I certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
Thomas Williams
Signature of Developer/Builder
12/18/84
Date

Reviewed for HOWARD S.C.D.
Name
and STATE Technical Requirements
John A. ...
Signature Date
U.S. Soil Conservation Service

ENGINEER'S CERTIFICATE
I hereby 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.
John W. Mueschman
Signature
12-18-84
Date
G. Nelson Clark
G. Nelson Clark



APPROVED: Department of Public Works
John W. Mueschman
Chief, Bureau of Engineering
7-15-85
Date

APPROVE: Howard County Office of Planning & Zoning
John W. Mueschman
Chief, Division of Land Development & Zoning Administration
7-12-85
Date

CLARK • FINEROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11314 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED VLS	ROAD CONSTRUCTION PLANS SEDIMENT EROSION CONTROL PLAN AND DRAINAGE AREA MAP GLENSHIRE TOWNE SECTION TWO 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: BLUE HOME 385 11120 New Hampshire Drive Silver Spring, Md. 20904	SCALE AS SHOWN
DRAWN K/W		DRAWING 4 OF 4
CHECKED VLS		JOB NO. 81-060
DATE 7-10-85		FILE NO. 81-060 D