

VILLAGE OF LONGREACH

SECTION 4 AREA 2

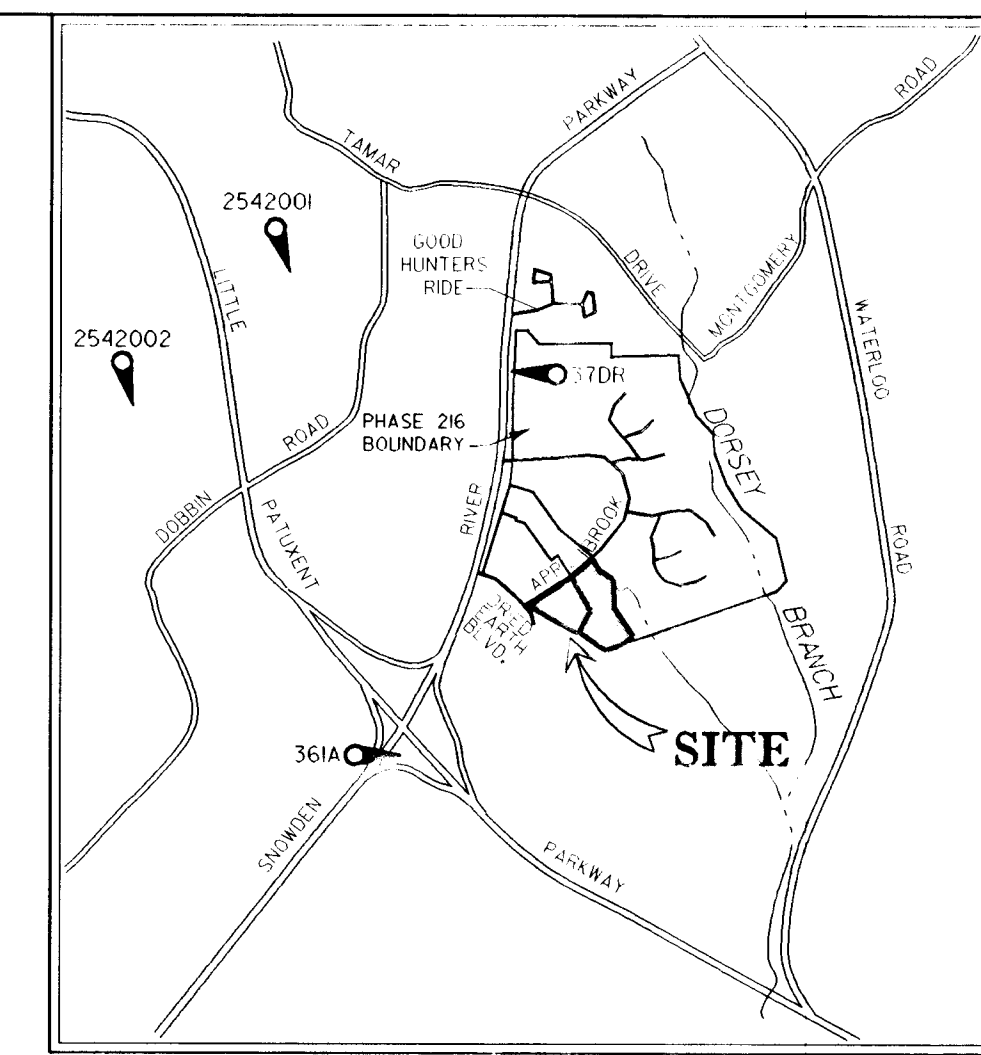
LOTS E1-E98 & F1-F59

RESUBDIVISION OF PARCELS E & F

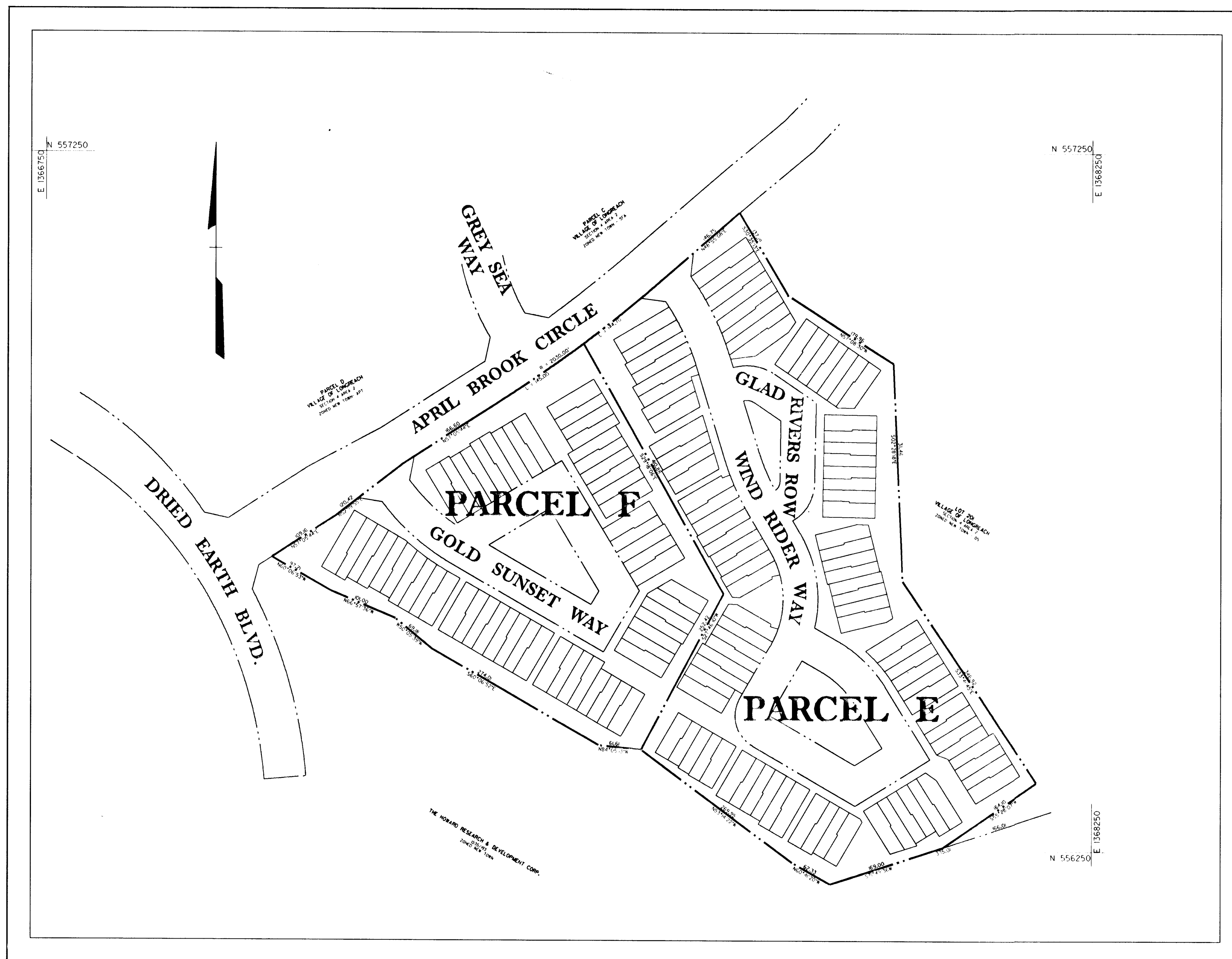
6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SHEET INDEX	
NO.	PLAN
1 OF 10	COVER SHEET
2 OF 10	ROAD CONSTRUCTION PLAN & PROFILE
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7 OF 10	MASS GRADING PLAN
8 OF 10	SEDIMENT CONTROL PLAN
9 OF 10	SEDIMENT CONTROL DETAILS
10 OF 10	WATER QUALITY FACILITY PLAN



LOCATION MAP



PLAN VIEW

SCALE: F100'

BENCHMARK

DESCRIPTION
STATION 370R (1/4" REBAR)
STATION 361A (CONCRETE MONUMENT)
STATION 264300K (CONCRETE MONUMENT)
ELEV. 437.461 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON B&E TRANSMISSION LINE'S 1060' S.W. OF DOBBIN ROAD

BENCHMARK

DESCRIPTION
STATION 361A (CONCRETE MONUMENT)
STATION 264300K (CONCRETE MONUMENT)
ELEV. 437.461 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175 3' FROM CURB AND 5.7' FROM GUARDRAIL END

BENCHMARK

DESCRIPTION
STATION 264300K (CONCRETE MONUMENT)
ELEV. 437.461 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON B&E TRANSMISSION LINE'S 1060' S.W. OF DOBBIN ROAD

BENCHMARK

DESCRIPTION
STATION 254200H (CONCRETE MONUMENT)
ELEV. 426.971 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON B&E TRANSMISSION LINE'S 1060' S.W. OF DOBBIN ROAD

GENERAL NOTES

- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVER(S) HAVE BEEN APPROVED.
- EXISTING ZONING IS NEW TOWN PER 10-93 COMPREHENSIVE ZONING.
- TOPOGRAPHY SHOWN HEREON IS TAKEN FROM AERIAL MAPS DATED 1963 FROM HOWARD RESEARCH & DEVELOPMENT CORP., SUPPLEMENTED BY CLARK, FINEROCK & SACKETT, INC. SEC & GRADING PLAN DATED 8/94 AND FIELD DATA BY DAFT McCUNE & WALKER 9/94.
- THIS PROPERTY IS LOCATED WITHIN THE HOWARD COUNTY METROPOLITAN DISTRICT.
- PUBLIC WATER AND SEWER SYSTEMS TO BE MADE AVAILABLE AND UTILIZED.
- ALL OPEN SPACE TO BE GRANTED TO COLUMBIA ASSOCIATION OR H.O.A.
- HORIZONTAL DATUM: NAD 83 / VERTICAL DATUM: NGVD 29
- SEE COUNTY FILE NOS.: S-93-16, P-94-16, F-95-25, *24-3355-D, 20-3352-D, DEED REF. L. 1535 F. 103, FDP PHASE 216, SP-95-02, SP-95-04
- SEE ARMY CORP OF ENGINEERS PERMIT 94-NT-0527
- WETLANDS SHOWN HAVE BEEN DETERMINED BY FIELD DELINEATION BY KIDDE CONSULTANTS AND SURVEYED BY FISHER, COLLINS AND CARTER, AND BY FIELD DELINEATION BY GTA AND SURVEYED BY GUTSCHICK, LITTLE & WEBER.
- FLOODPLAIN STUDY FOR TRIBUTARIES TO DORSEY RUN PREPARED BY CLARK FINEFROCK & SACKETT, INC. FLOODPLAIN STUDY F-95-25 FOR DORSEY RUN TAKEN FROM PREVIOUSLY APPROVED STUDY BY PERDUM & JESCHKE, DATED MARCH 1987.
- GEOTECHNICAL REPORT PREPARED BY ROBERT B. BALTER, INC.
- TRAFFIC STUDY PREPARED BY WELLS & ASSOCIATES, DATED JULY 28, 1993.
- BOUNDARY SURVEY PREPARED BY DAFT, McCUNE, & WALKER, INC. OCT 1994
- SWM QUANTITY CONTROLS PROVIDED BY F-95-25 IN ADJACENT OPEN SPACE.
- SWM QUALITY WILL BE PROVIDED IN ADJACENT OPEN SPACE.
- ALL LANDSCAPING FOR THIS PROJECT WILL BE PROVIDED AND BONDED WITH THE SITE DEVELOPMENT PLAN ACCORDING TO THE APPROVAL OF HRD'S ALTERNATIVE COMPLIANCE METHODS. THE ONLY EXCEPTION IS THE LANDSCAPING AND PLANTINGS AROUND THE STORMWATER MANAGEMENT POND SHOWN AND BONDED WITH THIS FINAL PLAN. SEE SHEET 10.
- SIDEWALKS AND SIDEWALK RAMP SHALL BE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS

Andrew M. Savelle 7-20-95
CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE

John Dammann 7/21/95
CHIEF, CIVIL DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Jim Surranjic 7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH

SECTION 4 AREA 2

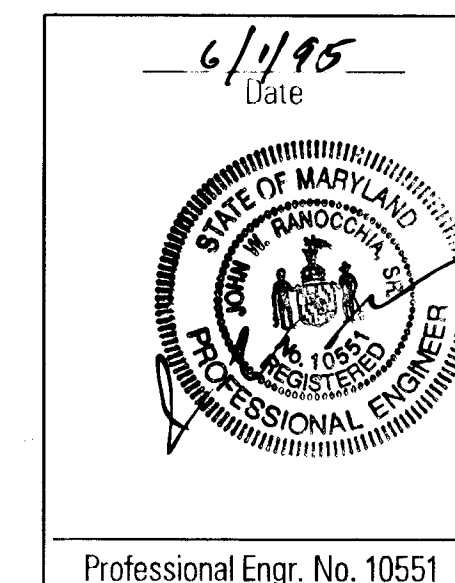
OWNER / DEVELOPER:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DMJM
Daft-McCune-Walker, Inc.
200 East Pennsylvania Avenue
Potosi, Maryland 21286
(410) 296-3333
Fax 296-4705
A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

SECTION 4, AREA 2, E1-E98 & F1-F59
TAX MAP 37 PARCELS E&F
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

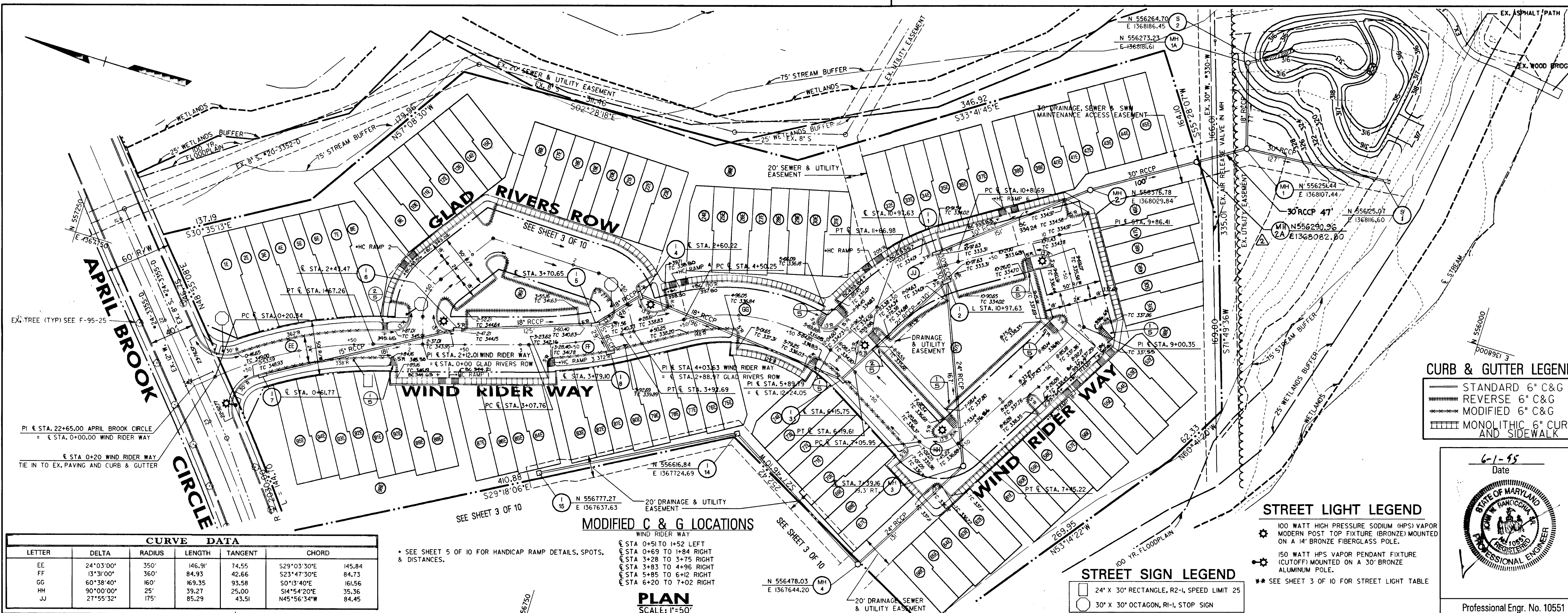
COVER SHEET

Des By	CEV	Scale	AS SHOWN	Proj No.	94020B
Dim By	NB	Date	MAY 95		
Chk By	JWR	Approved	JWR		1 OF 10



Professional Engr. No. 10551

100



APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Richard M. Douko 7-20-95
 CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
Richard M. Douko
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Anna Summerville 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10/27/95 1 ADD HC RAMP, REV EX. HC RAMP ELEV. ADJUST R. DALL SW INTERSECTION
 12/12/95 2 REV. PLAN, MH 1 TO MH 2
 Date No. Revision Description

VILLAGE OF LONGREACH

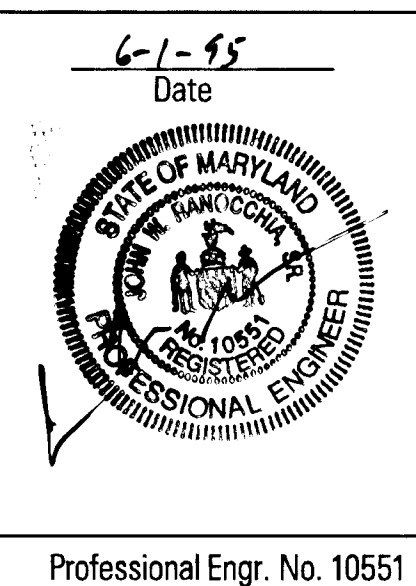
SECTION 4 AREA 2
 OWNER / DEVELOPER:
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 THE ROUSE BUILDING
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 COLUMBIA, MARYLAND 21044

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CURB & GUTTER LEGEND
 STANDARD 6" C&G
 REVERSE 6" C&G
 MODIFIED 6" C&G
 MONOLITHIC 6" CURB AND SIDEWALK

STREET LIGHT LEGEND
 100 WATT HIGH PRESSURE SODIUM (HPS) VAPOR MODERN POST TOP FIXTURE (BRONZE) MOUNTED ON A 1 1/2" BRONZE FIBERGLASS POLE.
 150 WATT HPS VAPOR PENDANT FIXTURE (CUT-OFF) MOUNTED ON A 30" BRONZE ALUMINUM POLE.
 ** SEE SHEET 3 OF 10 FOR STREET LIGHT TABLE

STREET SIGN LEGEND
 24" X 30" RECTANGLE, R-1, SPEED LIMIT 25
 30" X 30" OCTAGON, R-1, STOP SIGN



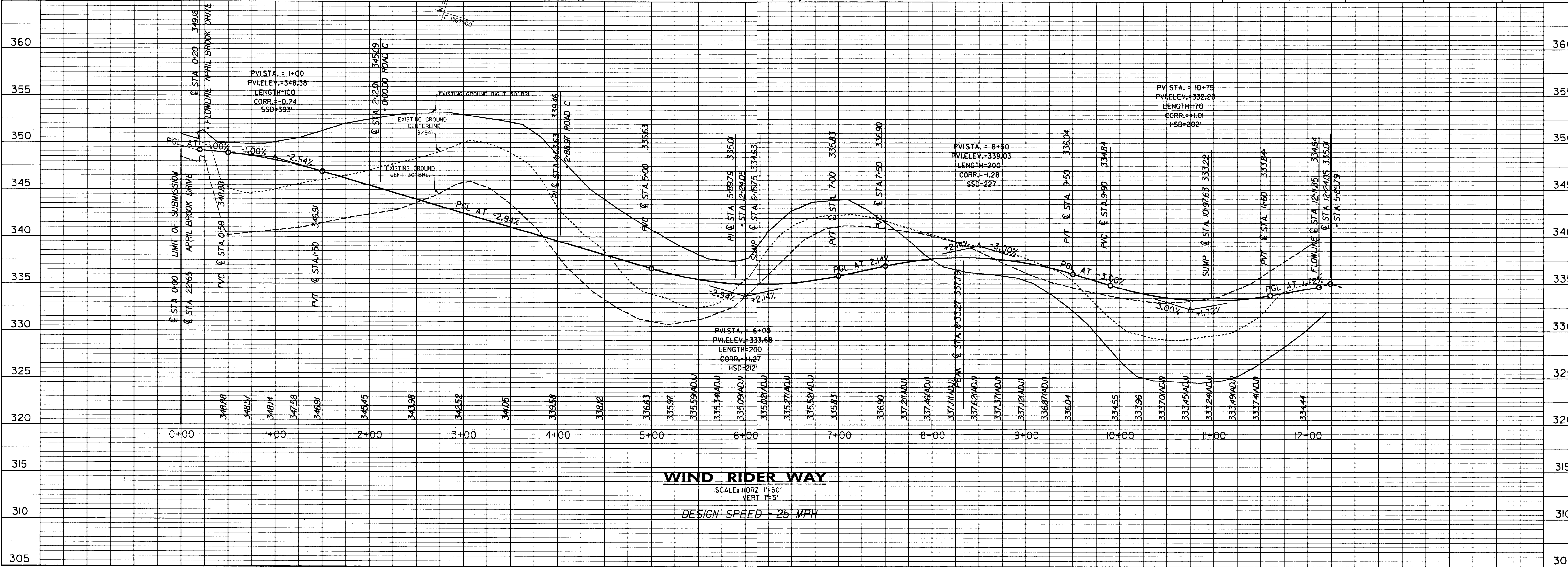
CURVE DATA

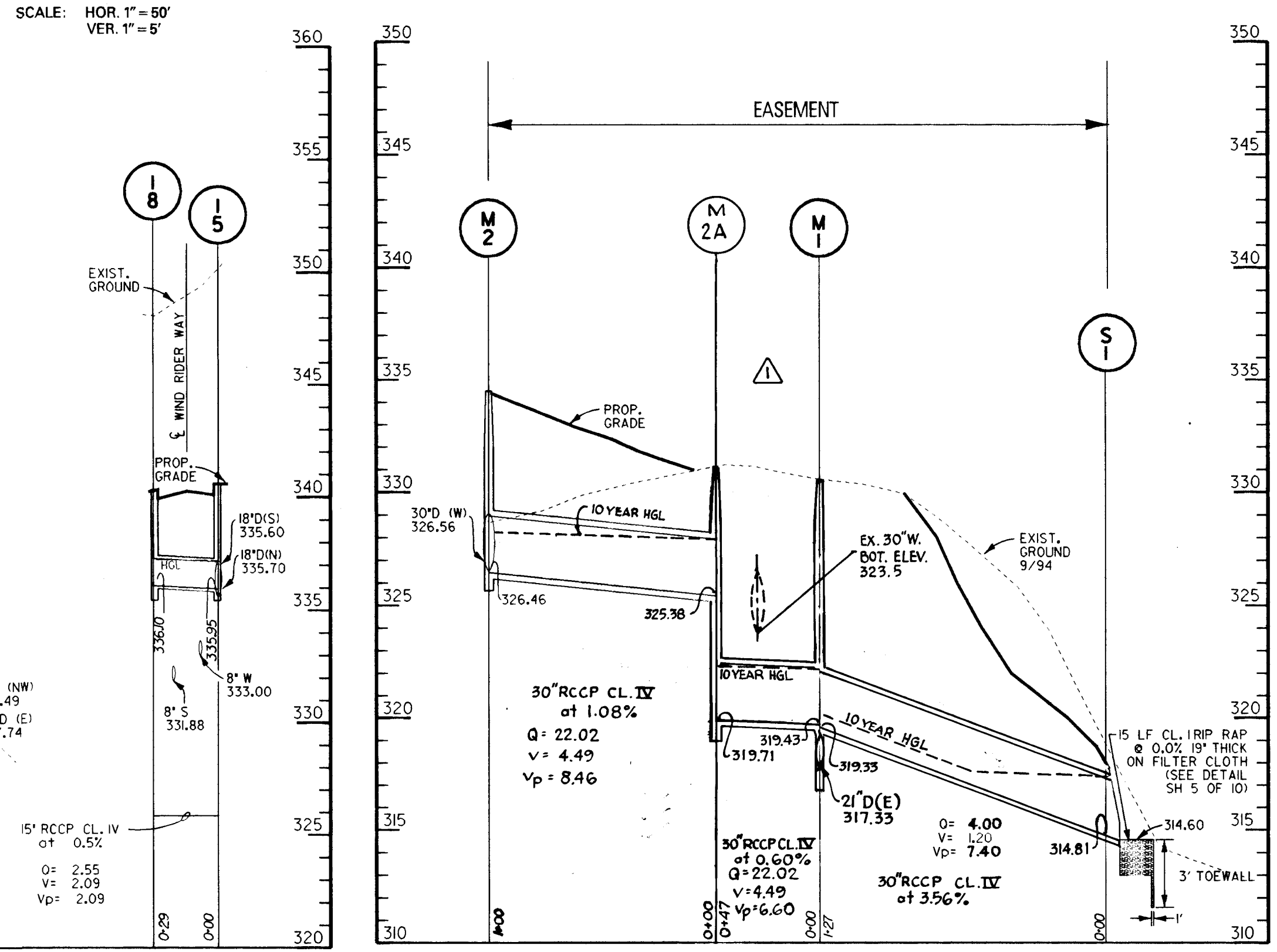
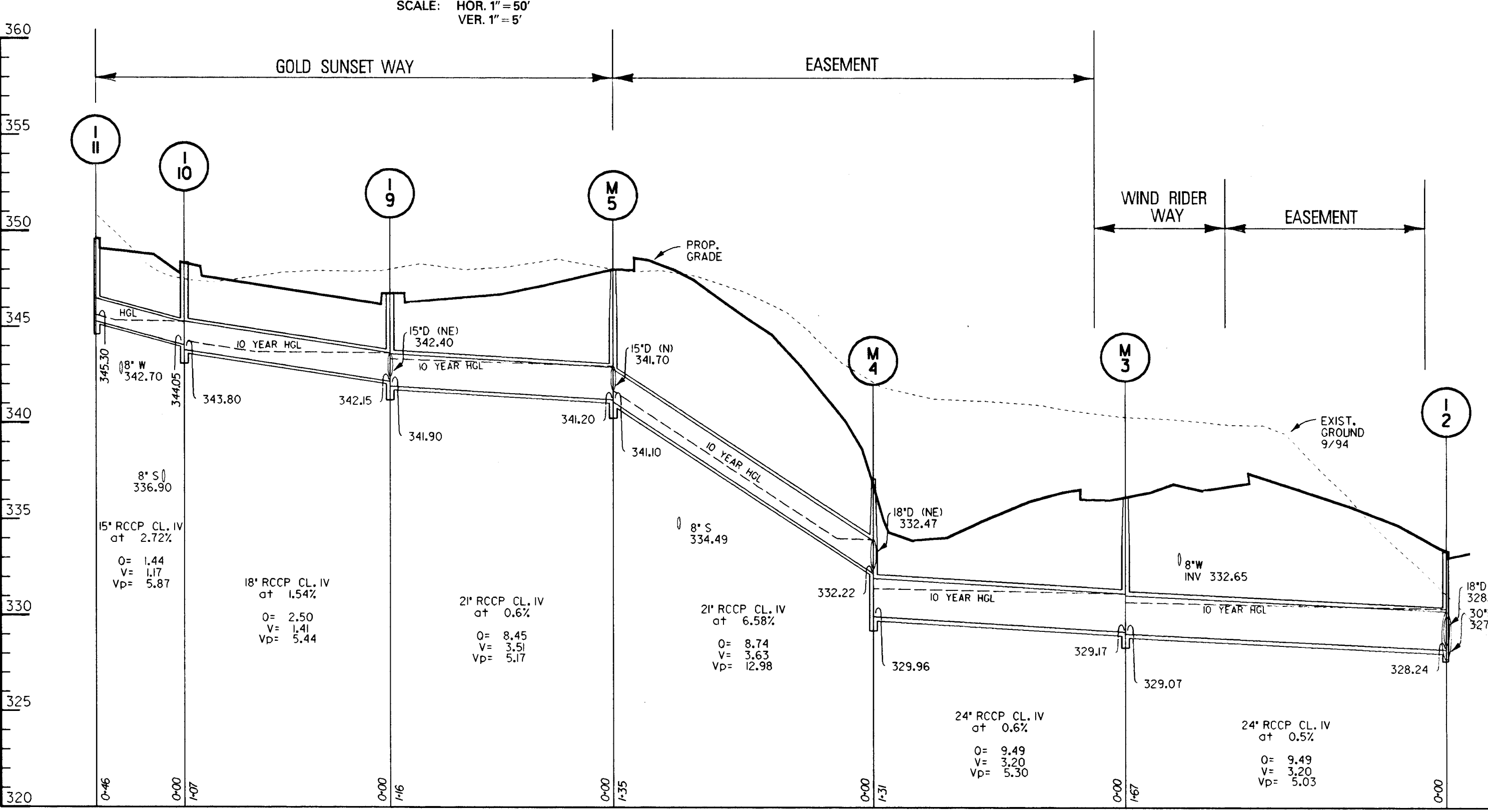
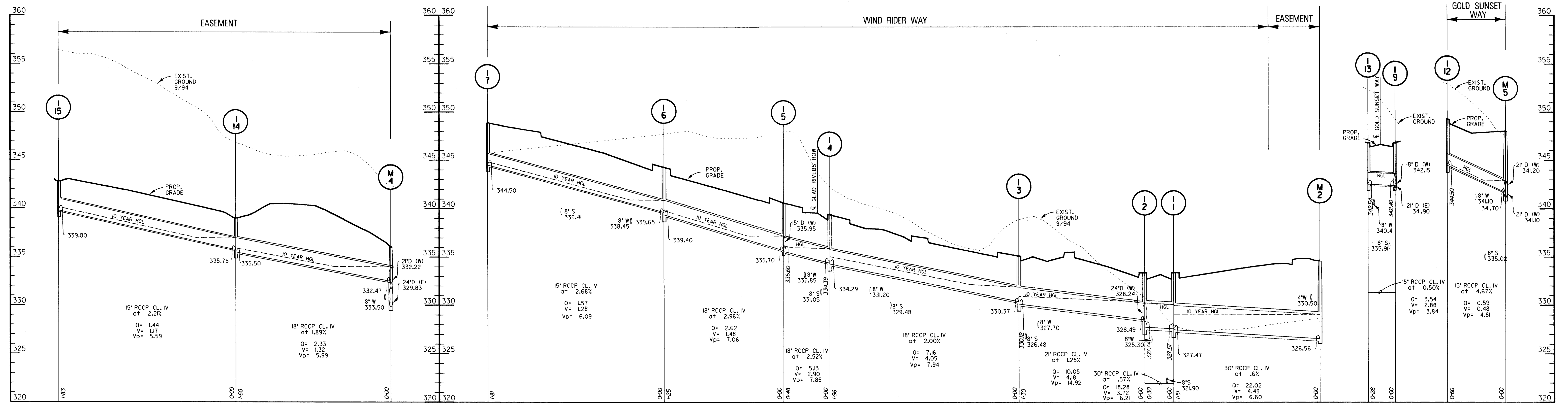
LETTER	DELTA	RADIUS	LENGTH	TANGENT	CHORD	
EE	24°03'00"	350'	146.91'	74.55'	329'03'30"E	145.84'
FF	13°30'00"	360'	84.93'	42.66'	S23°47'30"E	84.73'
GG	60°38'40"	160'	169.35'	93.58'	S0°13'40"E	161.56'
HH	90°00'00"	25'	39.27'	25.00'	S14°54'20"E	35.36'
JJ	27°55'32"	175'	85.29'	43.51'	N45°56'34"W	84.45'

MODIFIED C & G LOCATIONS
 * SEE SHEET 5 OF 10 FOR HANDICAP RAMP DETAILS, SPOTS, & DISTANCES.
 WIND RIDER WAY
 STA 0+51 TO 1+52 LEFT
 STA 0+69 TO 1+84 RIGHT
 STA 3+28 TO 3+75 RIGHT
 STA 3+83 TO 4+96 RIGHT
 STA 5+85 TO 6+42 RIGHT
 STA 6+20 TO 7+02 RIGHT

PLAN
 SCALE: 1"=50'

100





STORM DRAIN PROFILES

SCALE: HOR. 1" = 50'
VER. 1" = 5'

STRUCTURE SCHEDULE

NO.	TYPE	SIZE	INV. OUT	DETAIL NO.	LOCATION
1	END SECTION	30"	314.44	HO CO SD 5.51	N 556123.93, E 1368120.08
2	END SECTION	18"	315.00	HO CO SD 5.51	N 556264.70, E 1368186.45

MANHOLE SCHEDULE

NO.	TYPE	INV. OUT	TOP ELEV.	DETAIL NO.	LOCATION
1	5' SHALLOW	317.33	329.27	HO CO G 5.13	N 556291.44, E 1368107.49
1A	4' SHALLOW	315.07	319.55	HO CO G 5.12	N 556273.23, E 1368181.61
2	5' STANDARD	326.46	334.30	HO CO G 5.13	N 556375.78, E 1368029.84
3	4' STANDARD	329.07	336.58	HO CO G 5.12	E STA 7+39.08 R 19.29
4	4' SHALLOW	329.96	336.00	HO CO G 5.12	N 556478.03, E 1367644.20
5	4' STANDARD	341.10	348.20	HO CO G 5.12	N 556545.54, E 1367527.78
2A	5' SHALLOW	319.71	331.20	HO CO G 5.13	N 556290.96, E 1368082.80

INLET SCHEDULE

NO.	TYPE	Q	INV. OUT	TOP ELEV. +	DETAIL	LOCATION
1	A-5	4.29	327.47	333.31	HO CO SD 4.01	CL STA 10+97.63
2	A-5	1.00	327.74	333.31	HO CO SD 4.01	CL STA 10+97.63
3	A-5	2.55	330.29	335.02	HO CO SD 4.01	CL STA 6+95.75
4	A-5	1.63	334.29	339.37	HO CO SD 4.01	CL STA 2+60.22
5	A-5	0.51	335.60	340.53	HO CO SD 4.01	CL STA 3+70.65
6	A-5	0.75	339.40	344.26	HO CO SD 4.01	CL STA 2+43.47
7	A-5	1.56	344.50	348.84	HO CO SD 4.01	CL STA 0+61.77
8	A-5	1.50	336.10	340.28	HO CO SD 4.01	CL STA 3+79.10
9	A-5	2.40	341.90	346.73	HO CO SD 4.01	CL STA 2+93.91
10	A-10	0.87	343.80	348.33	HO CO SD 4.02	CL STA 1+86.88
11	A-10	1.01	345.30	349.52	HO CO SD 4.02	CL STA 1+49.15
12	A-5	0.37	344.50	349.19	HO CO SD 4.01	CL STA 4+29.73
13	A-5	2.40	342.54	346.73	HO CO SD 4.01	CL STA 2+93.91
14	S-GRATE	0.75	336.00	339.00	HO CO SD 4.22	N 556616.84, E 1367724.69
15	S-GRATE	0.97	339.80	342.80	HO CO SD 4.22	N 556777.27, E 1367637.63

* NOTE: ELEVATION REPRESENT TOP OF CURB & HEADPIECE FOR A-5 & A-10 INLETS

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Richard M. Chavel 7/20/95
 CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
Mark Damm 7/21/95
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Gina Swinney 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE

12/12/95 Rev. PROFILE, S-1 TO M-2
 Date No. Revision Description

VILLAGE OF LONGREACH

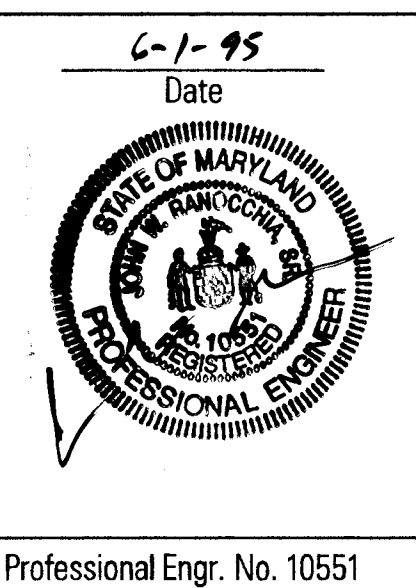
SECTION 4 AREA 2
 OWNER /DEVELOPER:
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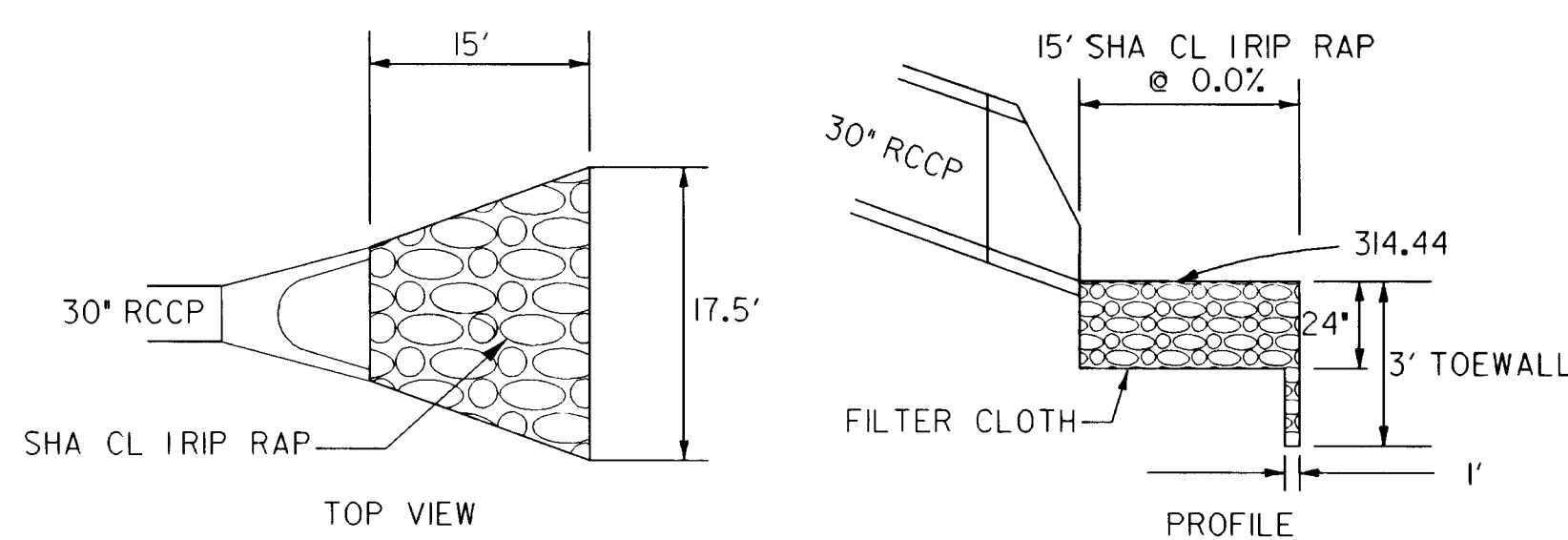
SECTION 4, AREA 2, E1-E98 & F1-F59
 TAX MAP 37 PARCELS E&F
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

STORM DRAIN PROFILES

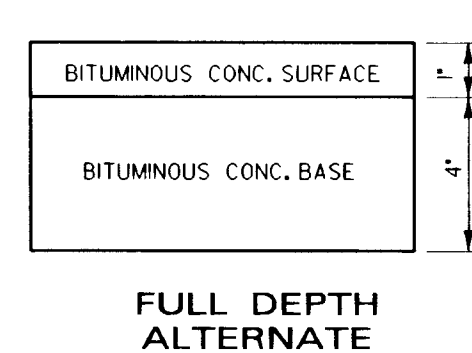
Des By CEV Scale AS NOTED Proj. No. 94020B
 Dwn By NB Date JUNE 95
 Chk By JWR Approved JWR 4 OF 10



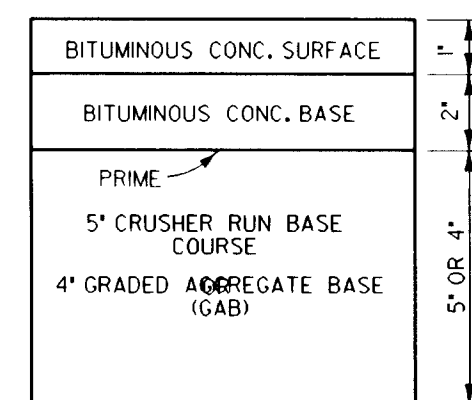
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RIPRAP OUTLET PROTECTION FOR S-1
NOT TO SCALE



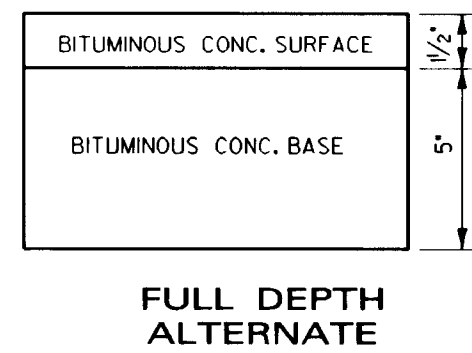
FULL DEPTH ALTERNATE



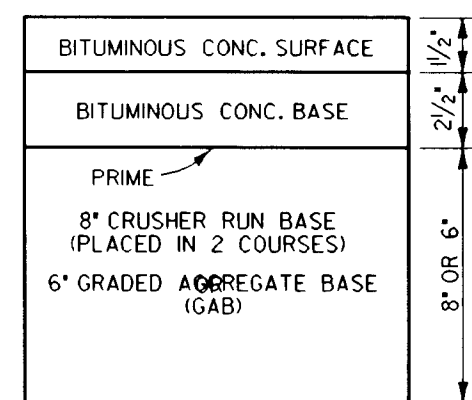
GRANULAR BASE ALTERNATE

PAVING SECTION P-1 (FOR PARKING AREAS)

NO SCALE



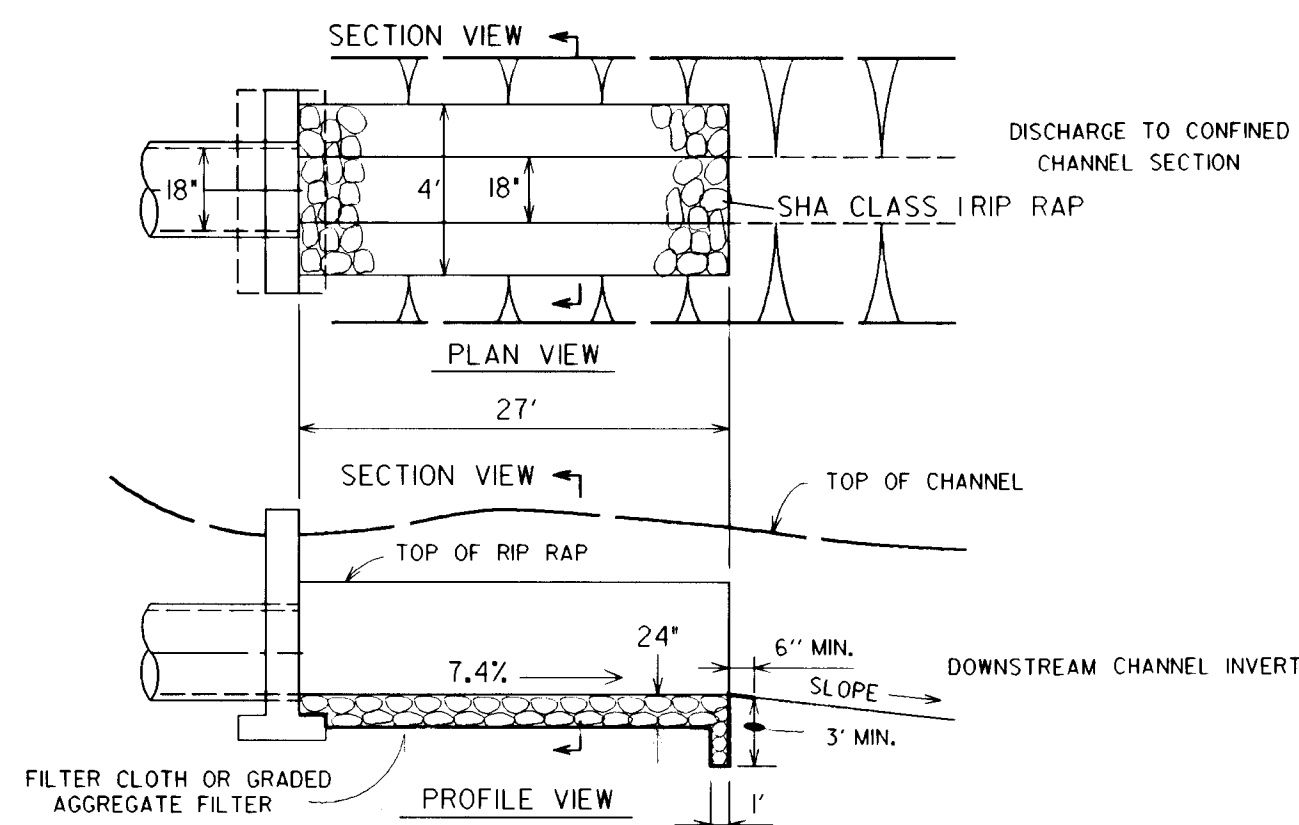
FULL DEPTH ALTERNATE



GRANULAR BASE ALTERNATE

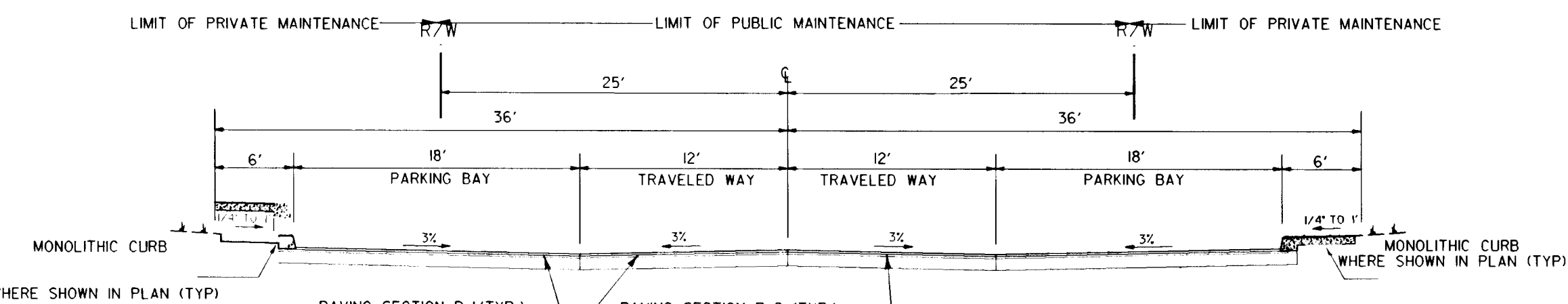
PAVING SECTION P-2 (FOR PUBLIC ROADS)

NO SCALE



RIPRAP OUTLET PROTECTION II

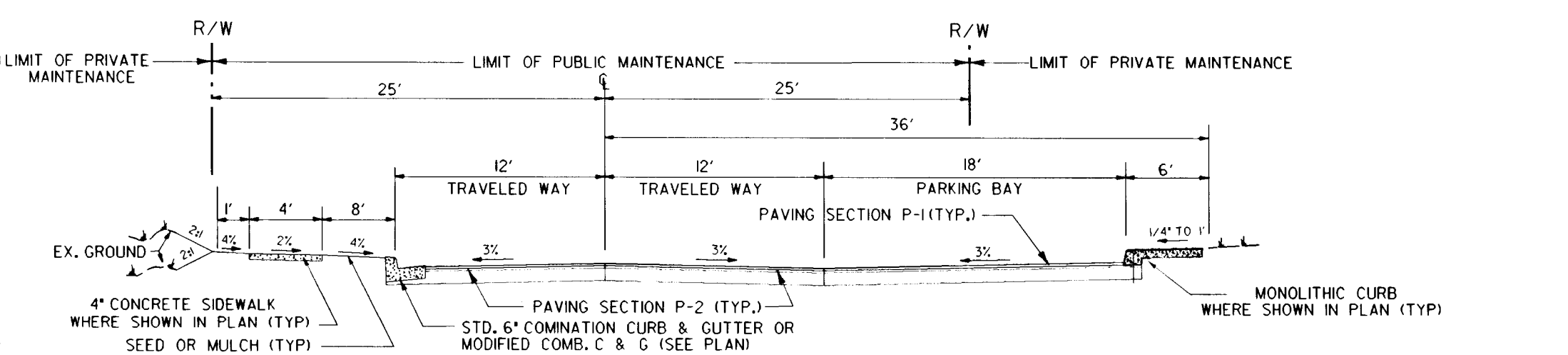
MAXIMUM DEPTH OF FLOW OR DISCHARGE DEPTH, WHICH SLOPE TO VARY FROM 2H AT PIPE OUTLET TO EXISTING CHANNEL BOTTOM AT END OF APRON



TYPICAL FULL SECTION PARKING ADJACENT TO PUBLIC ROADS

GOLD SUNSET WAY: STA. 0+65 TO STA. 3+73, STA. 5+56 TO 6+00
WIND RIDER WAY: STA. 0+59 TO STA. 3+29, STA. 5+05 TO 5+85, STA. 7+57 TO 12+24
GLAD RIVERS ROW: STA. 0+00 TO STA. 2+89

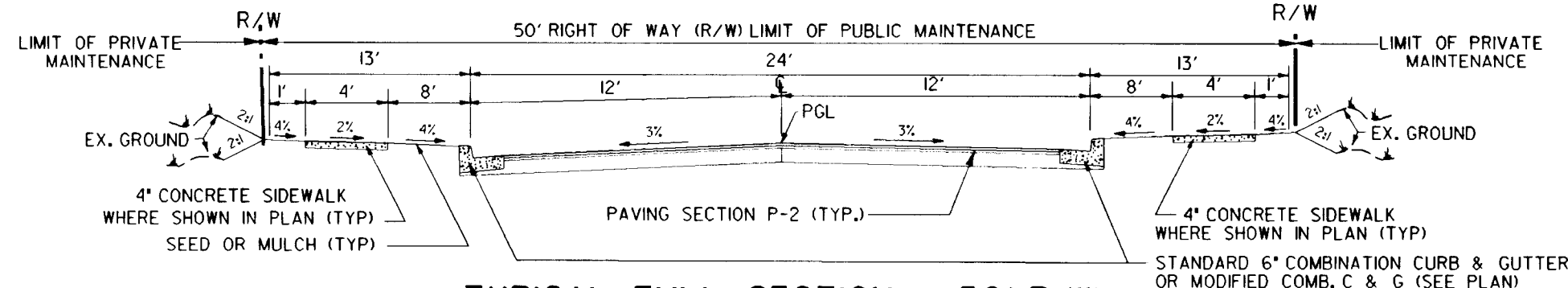
NOT TO SCALE
25 MPH DESIGN SPEED
CLASSIFICATION: CUL-DE-SAC (UNDER 600' IN LENGTH)



TYPICAL FULL SECTION PARKING ADJACENT TO PUBLIC ROADS ON ONE SIDE

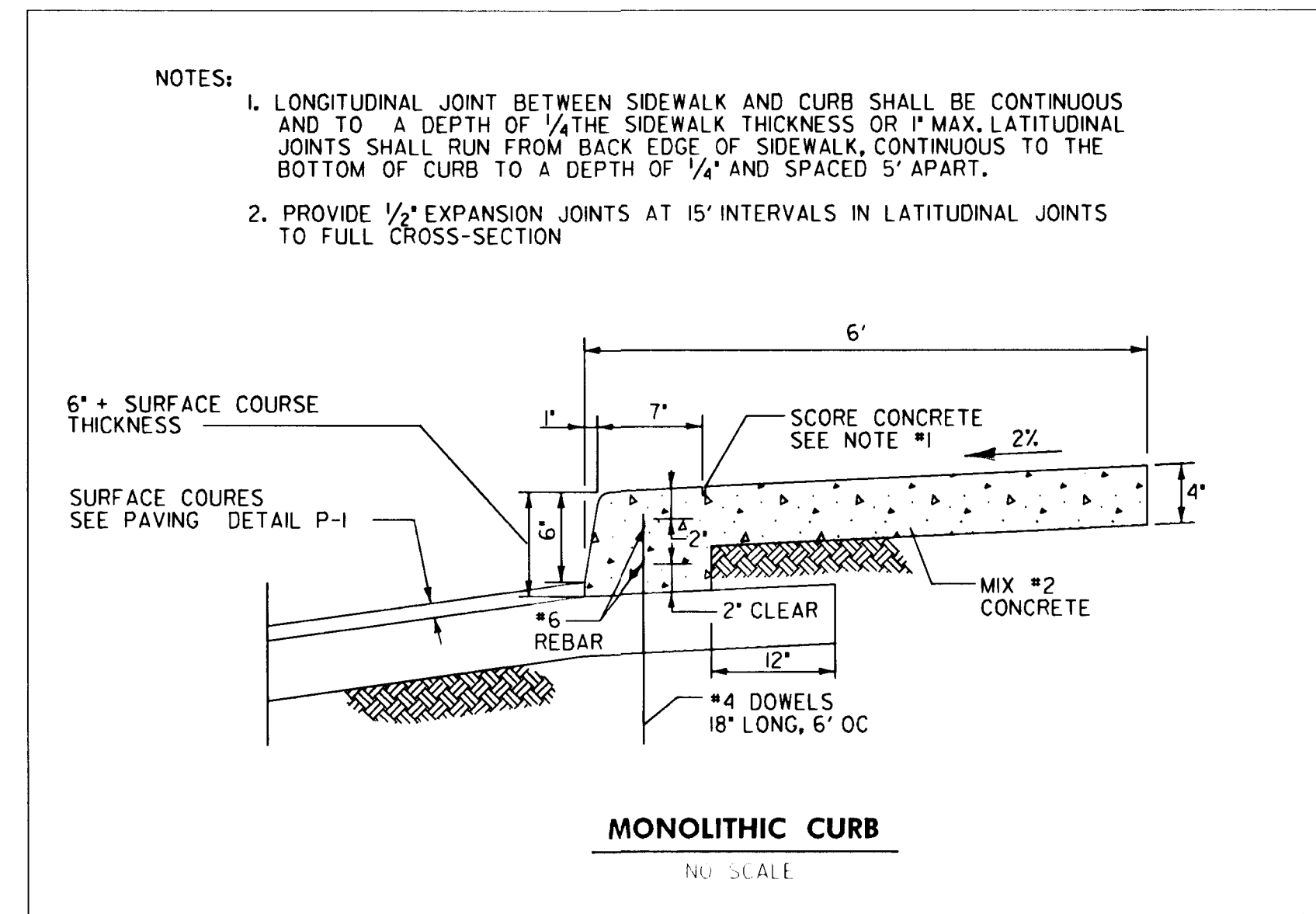
GOLD SUNSET WAY: STA. 3+73 TO 5+56, STA. 6+00 TO 7+91
WIND RIDER WAY: STA. 0+00 TO STA. 0+59, STA. 3+29 TO 5+05, STA. 5+85 TO 7+57

NOT TO SCALE
25 MPH DESIGN SPEED
CLASSIFICATION: CUL-DE-SAC (UNDER 600' IN LENGTH)



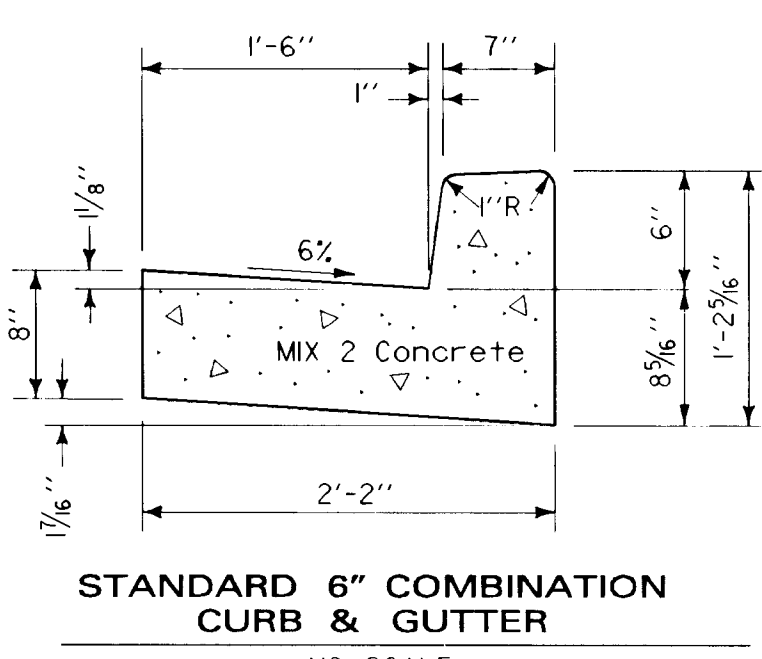
TYPICAL FULL SECTION - 50' R/W ENTRANCE TO ROADS A&B

NOT TO SCALE
CLASSIFICATION: CUL-DE-SAC (UNDER 600' IN LENGTH)
DESIGN SPEED: 25 MPH
ZONING: NEW TOWN



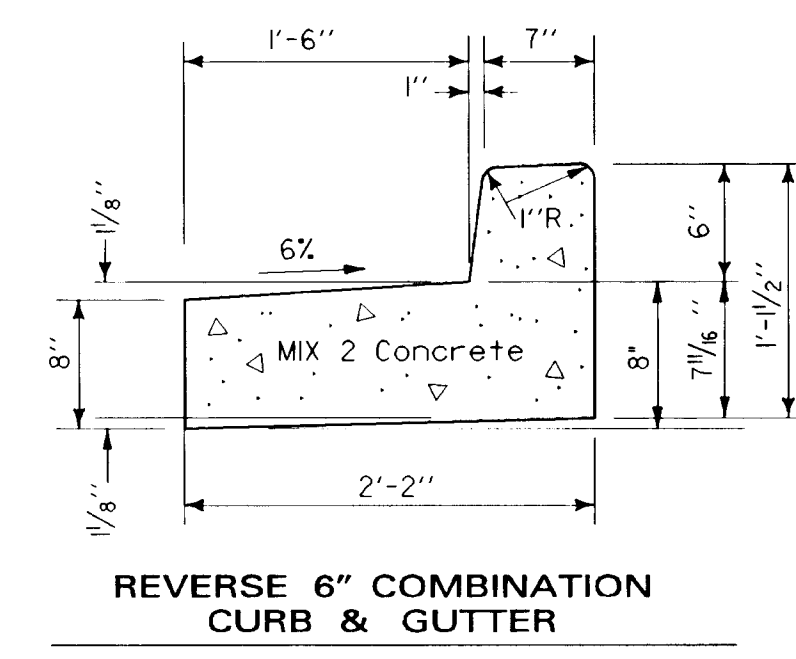
MONOLITHIC CURB

NO SCALE



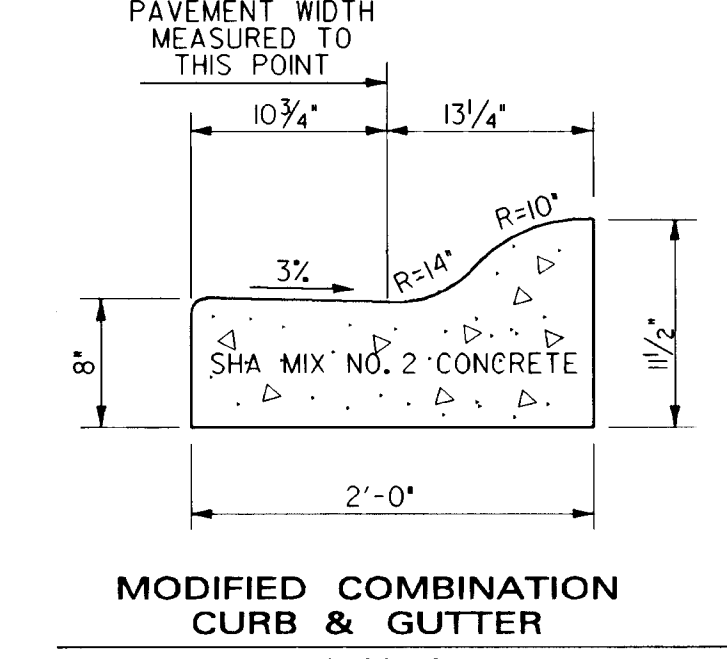
STANDARD 6" COMBINATION CURB & GUTTER

NO SCALE



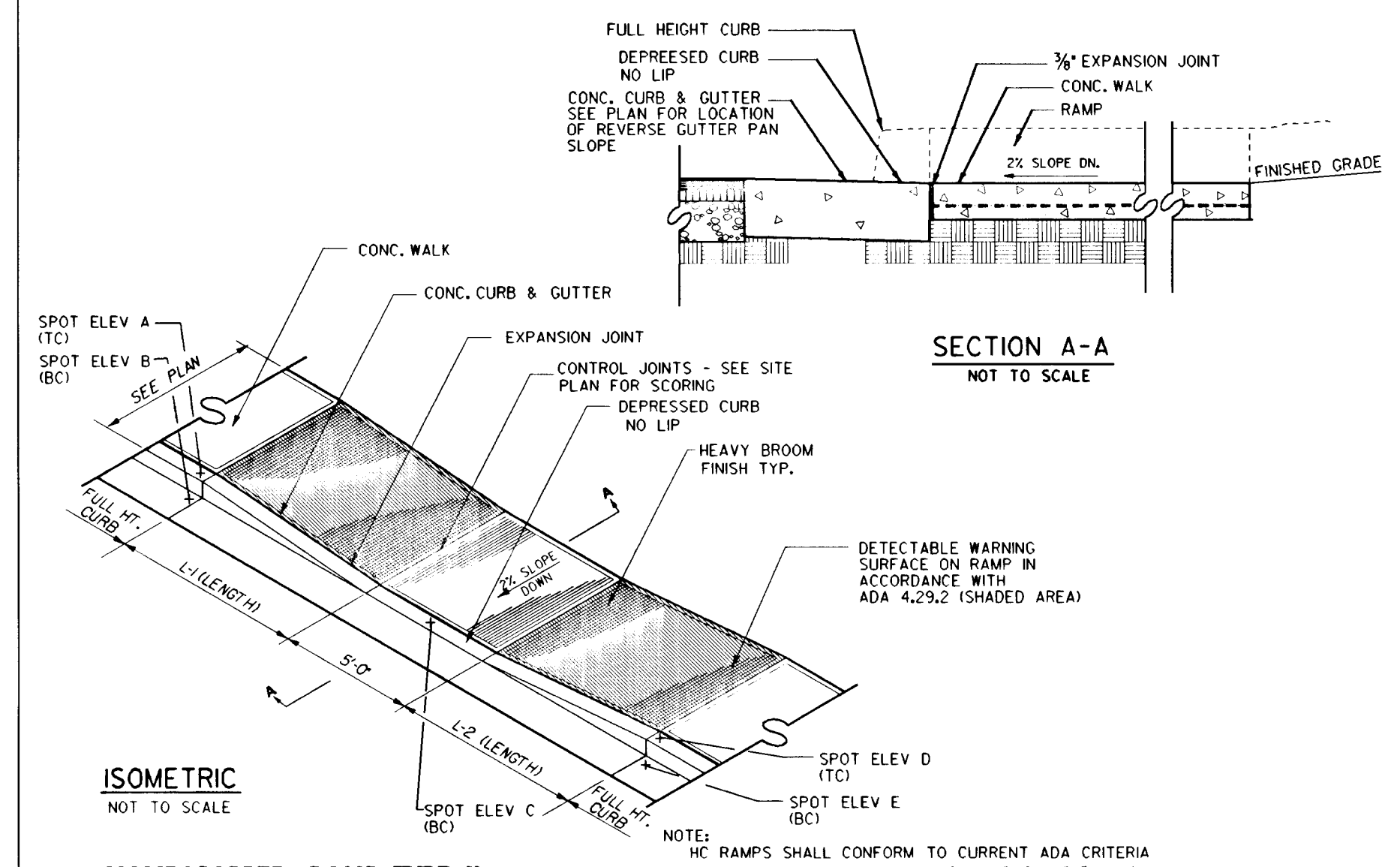
REVERSE 6" COMBINATION CURB & GUTTER

NO SCALE



MODIFIED COMBINATION CURB & GUTTER

NO SCALE



HANDICAPPED RAMP TYPE II

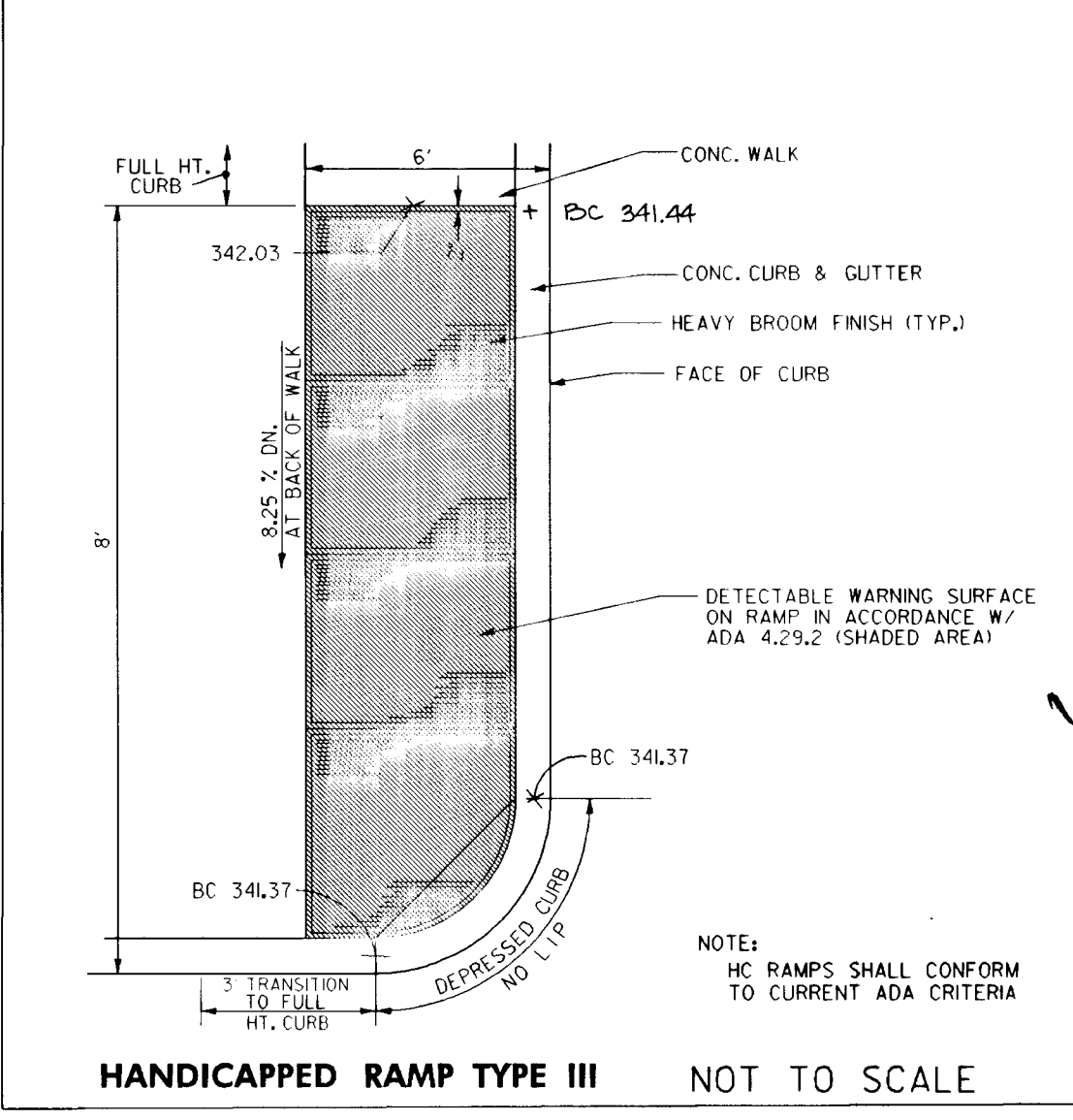
NOT TO SCALE

HANDICAPPED RAMP CHART

STATION	HC RAMP NO.	TYPE	L-1	L-2	SPOT ELEV. A (TC)	SPOT ELEV. B (BC)	SPOT ELEV. C (TC)	SPOT ELEV. D (BC)	SPOT ELEV. E (TC)	SPOT ELEV. F (BC)
2+25.15	1	III	8'	10'	344.87	344.87	344.87	344.87	344.87	344.87
2+35.65	1	III	8'	10'	344.87	344.87	344.87	344.87	344.87	344.87
0+56.31	2	III	10'	8'	344.04	344.04	344.04	344.04	344.04	344.04
3+26.85	3	III	SEE HC							
4+52.53	4	III	10'	8'	338.26	338.26	338.26	338.26	338.26	338.26
4+66.09	4	III	10'	8'	337.70	337.70	337.70	337.70	337.70	337.70
4+46.34	5	III	8'	8'	339.78	339.78	339.78	339.78	339.78	339.78
10+25.48	6	III	6'	10'	339.90	339.90	339.90	339.90	339.90	339.90
8+95.59	7	III	8'	8'	337.08	337.08	337.08	337.08	337.08	337.08
8+54.60	8	III	8'	8'	338.00	338.00	338.00	338.00	338.00	338.00

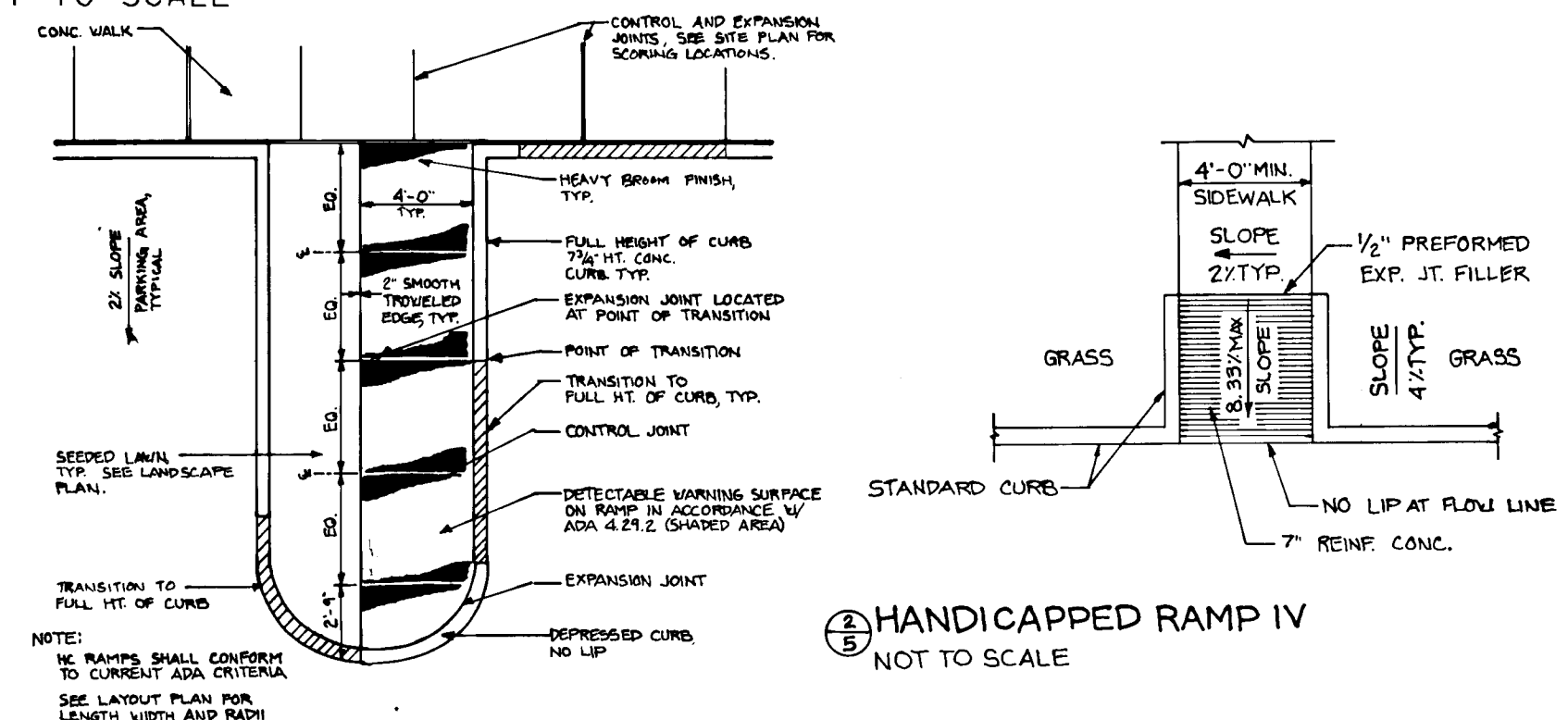
HC SURFACE PARKING SPOT ELEVATIONS

STATION	LEP/RIGHT	12' OFFSET (R/O)	30' OFFSET (R/O)
2+25.15	R	344.87	344.87
2+46.15	R	343.85	344.21
3+10.85	R	341.50	341.42
3+23.85	R	341.31	341.66
4+31.71	L	337.44	338.20
4+66.09	L	337.44	337.80
4+46.34	R	337.33	337.68
8+65.10	R	337.11	337.47
8+13.04	R	336.82	337.18
9+06.04	R	336.64	337.05
10+10.48	R	333.88	334.24
10+37.40	R	333.47	333.83
11+35.34	R	333.21	333.57
11+60.34	R	333.40	333.84
0+45.91	L	343.24	343.56
0+72.41	L	342.72	343.02



HANDICAPPED RAMP TYPE III

NOT TO SCALE

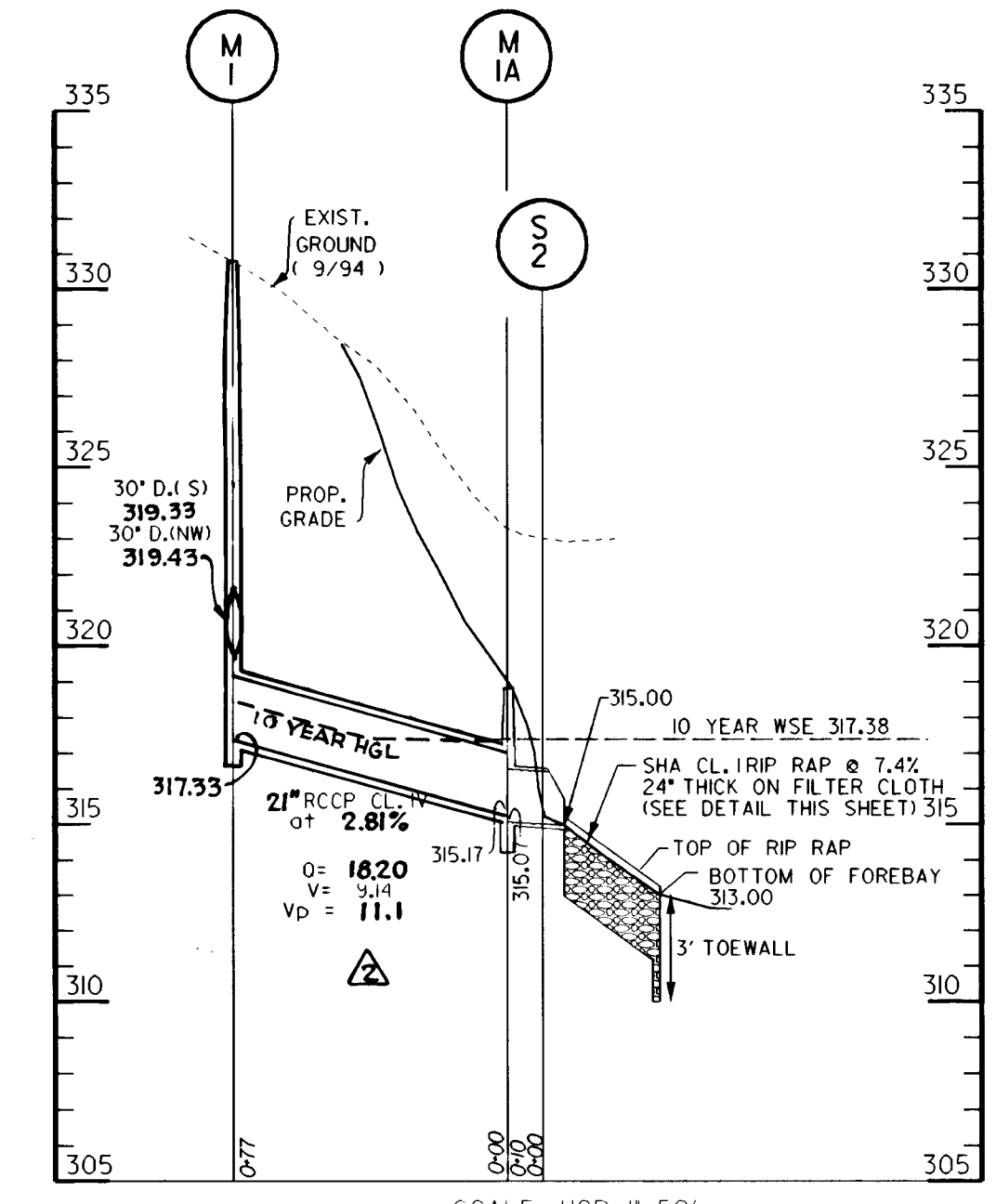


HANDICAPPED RAMP I

NOT TO SCALE

HANDICAPPED RAMP IV

NOT TO SCALE



SCALE: HOR. 1"=50'
VER. 1"=5'

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Andrew M. Danziger 7-20-95
CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE

John D. ... 7/21/95
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Anna Surman 7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10/27/95	1	REV. HC RAMP CHART, ADD HC RAMP DETAILS.
12/12/95	2	REV. PROFILE M-1A TO M-1
Date	No.	Revision Description

VILLAGE OF LONGREACH

SECTION 4 AREA 2

OWNER / DEVELOPER:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10276 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

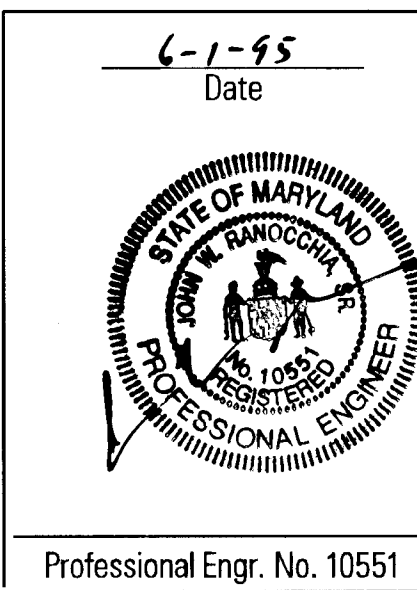
DMT&A
Darr McCune Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

SECTION 4, AREA 2, E1-E98 & F1-F59
TAX MAP 37 PARCELS E&F
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

ROAD CONSTRUCTION DETAILS

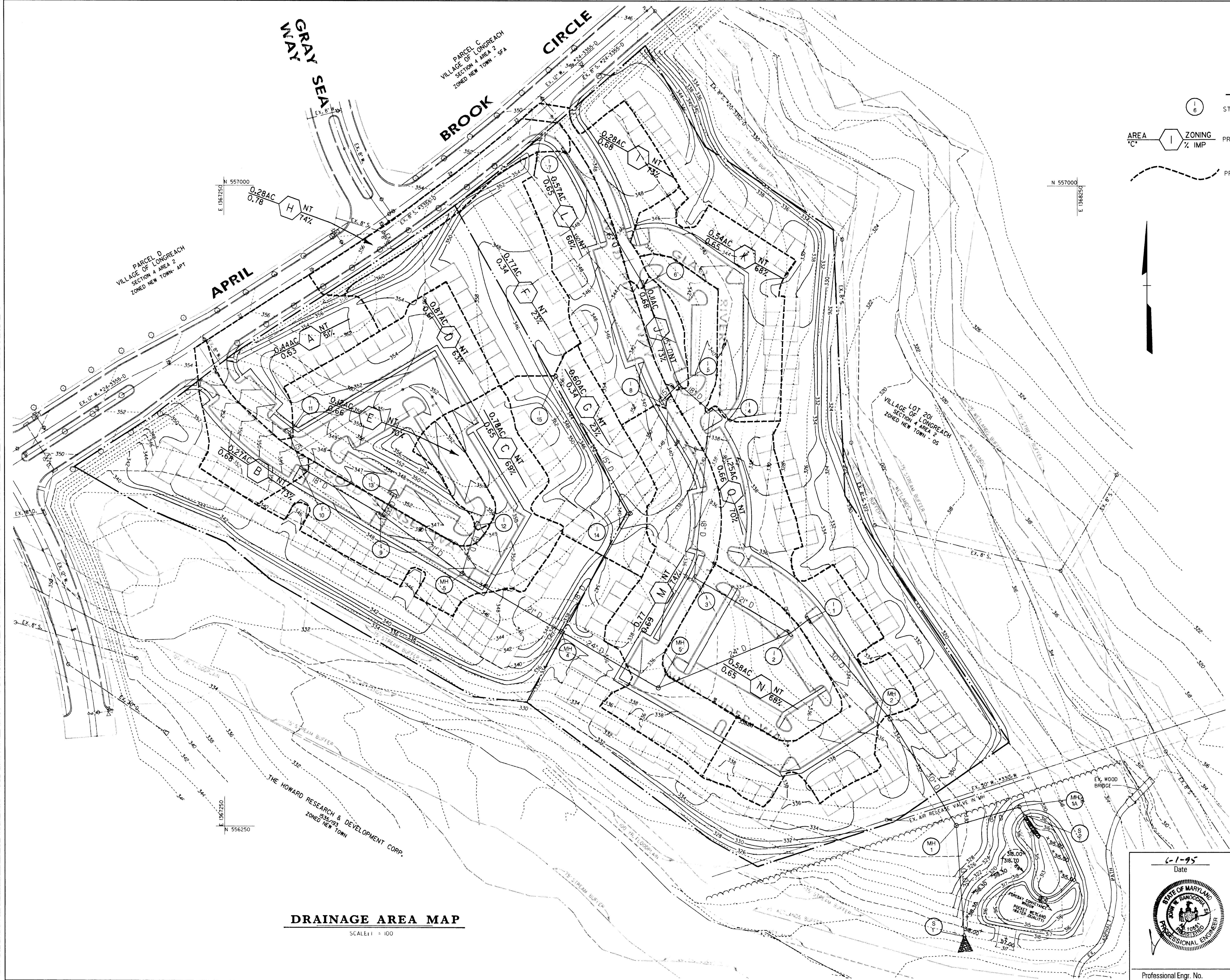
Des By	CEV	Scale	AS NOTED	Proj. No.	94020B
Drn By	NB	Date	MAY 95		
Chk By	JWR	Approved	JWR		5 OF 10



Professional Engr. No. 10551

1001

100



LEGEND

STRUCTURE LABEL

AREA ZONING
% IMP

PROPOSED DRAINAGE AREA DESIGNATION

PROPOSED DRAINAGE AREA LIMIT

PARCEL D
VILLAGE OF LONGREACH
SECTION 4 AREA 2
ZONED NEW TOWN APT

PARCEL C
VILLAGE OF LONGREACH
SECTION 4 AREA 2
ZONED NEW TOWN 5F4

LOT 201
VILLAGE OF LONGREACH
SECTION 4 AREA 2
ZONED NEW TOWN 05

DRAINAGE AREA MAP
SCALE: 1" = 100'

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Robert M. Danke 7-20-95
CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
John J. ... 7/21/95
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Gina ... 7/25/95
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH
SECTION 4 AREA 2
OWNER /DEVELOPER:
THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DPM
Dat: McCune-Walker, Inc.
Towson, Maryland 21286
(410) 296-3833
Fax: 296-4706

A Team of Land Planners,
Landscape Architects,
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Environmental Professionals

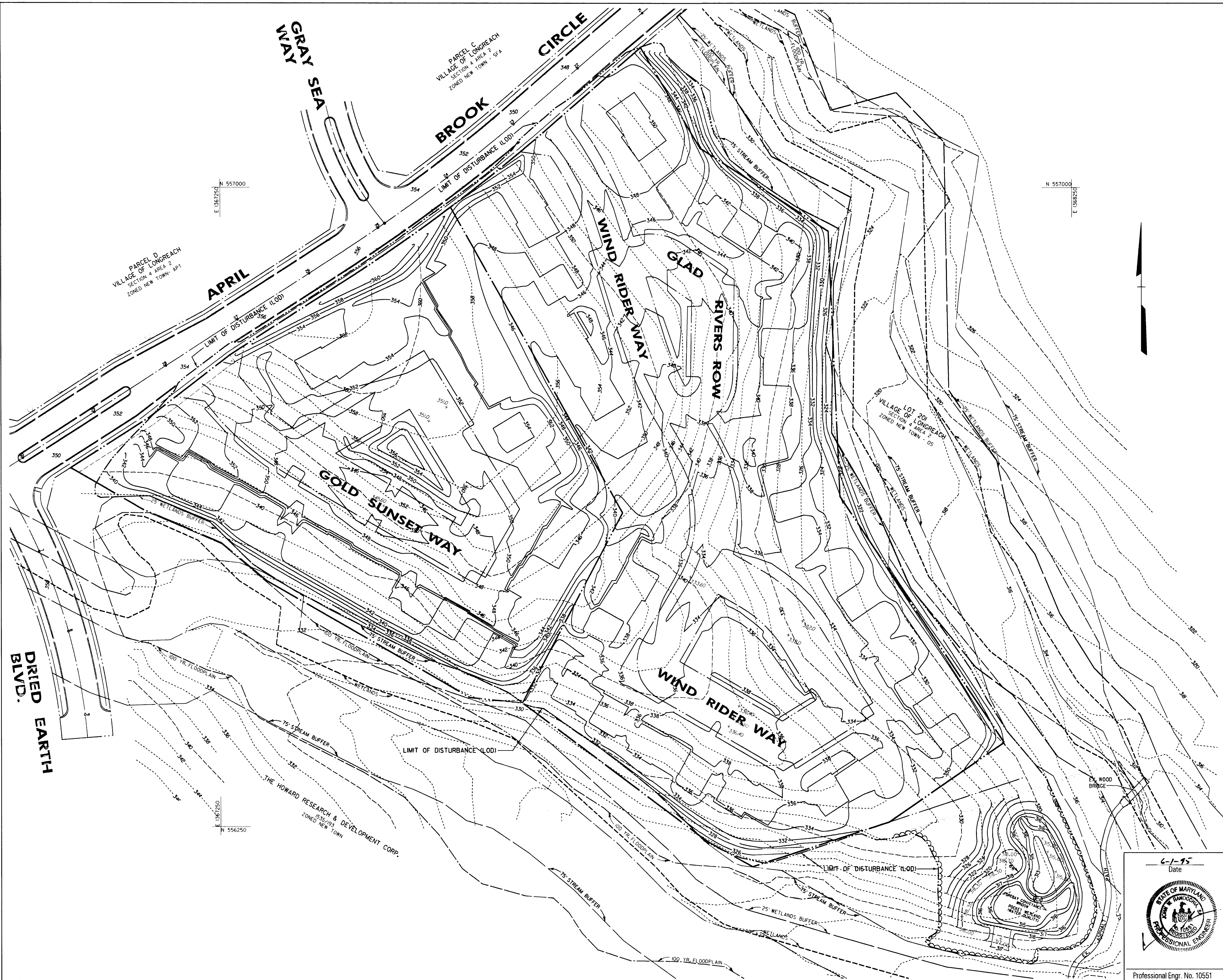
SECTION 4, AREA 2, E1-E98 & F1-F59
TAX MAP 37 PARCELS E&F
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
DRAINAGE AREA MAP

Des By	CEV	Scale	1" = 50'	Proj. No.	94020B
Drn By	CEV	Date	MAY 95		
Chk By	JWR	Approved	JWR		6 OF 10

6-1-95
Date

Professional Engr. No.



APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Andrew M. Daniels 7-20-95
 CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
John C. ... 7/21/95
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Gina ... 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH
 SECTION 4 AREA 2
 OWNER / DEVELOPER:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DMW
 Dan McCune-Walker, Inc.
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
 Towson, Maryland 21286
 (410) 296-3833
 Fax: 296-4705

SECTION 4, AREA 2, E1-E98 & F1-F59
 TAX MAP 37 PARCELS E&F
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
MASS GRADING PLAN

Des By	Scale 1" = 50'	Proj. No. 94020B
Drn By CEV	Date JUNE 95	7 OF 10
Chk By JWR	Approved JWR	

6-1-95
 Date

Professional Engr. No. 10551

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- TP — TP — TREE PROTECTION FENCE
- SS — SS — SUPER SILT FENCE
- S — S — SILT FENCE
- — — — — EXISTING DA
- · · · · · INTERIM DA
- — — — — PROPOSED DA
- — — — — LIMIT OF DISTURBANCE (LOD)
- IP (INLET PROTECTION)
- SCE STABILIZED CONSTRUCTION ENTRANCE
- — — — — MOUNTABLE BERM
- *2 STONE CHECK DAM

D.A. TO 450' SSF ±
EX. = 0.12 Ac ±
INT. = 0.10 Ac ±
PROP. = 0.10 Ac ±

TO IP (COMBINED)
EX. = 0.00 Ac ±
INT. = 0.00 Ac ±
PROP. = 6.81 Ac ±

D.A. TO 1010' SSF ±
EX. = 7.59 Ac ±
INT. = 7.15 Ac ±
PROP. = 2.42 Ac ±

D.A. TO 1040' SSF ±
EX. = 4.08 Ac ±
INT. = 4.36 Ac ±
PROP. = 2.28 Ac ±

D.A. TO 120' SF ±
EX. = 0.06 Ac ±
INT. = 0.17 Ac ±
PROP. = 0.17 Ac ±

D.A. TO 340' SF ±
EX. = 0.64 Ac ±
INT. = 0.12 Ac ±
PROP. = 0.12 Ac ±

D.A. TO 140' SF ±
EX. = 0.17 Ac ±
INT. = 0.64 Ac ±
PROP. = 0.64 Ac ±

SEQUENCE OF OPERATIONS

1. OBTAIN A GRADING PERMIT
2. NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS (303-855) A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
3. INSTALL TREE PROTECTION FENCE
4. CLEAR AND GRUB FOR AND INSTALL SEDIMENT AND EROSION CONTROL MEASURES OR DEVICES.
5. STABILIZE ALL NONACTIVE GRADED SURFACES WITH TEMPORARY SEEDING.
6. INSTALL UTILITIES. INLETS ARE TO BE PROTECTED UPON INSTALLATION.
7. FINE GRADE ALL ROAD SURFACES. INSTALL CURBS AND GUTTERS. APPLY ROAD SUBBASE.
8. PAVE ROAD AND PARKING LOT. STRIPE PARKING LOT.
9. WITH THE PRIOR PERMISSION OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SEDIMENT CONTROL DIVISION, REMOVE SEDIMENT CONTROL STRUCTURES, FINE GRADE AND STABILIZE THESE AREAS.

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (303-2431).
2. 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.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RESTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DYES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3%
 - B. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE
4. 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.
5. 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 (SECTION 501, 502, SECTION 541, TEMPORARY SEEDING (SECTION 501, AND MULCHING (SECTION 501). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
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:

TOTAL AREA OF SITE	11.6 ACRES
AREA TO BE ROOFED OR PAVED	12.6 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.3 ACRES
TOTAL CUT	5250 CUBIC YARDS
TOTAL FILL	5250 CUBIC YARDS
OFF-SITE WASTE/BORROW AREA LOCATION	N/A
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
10. 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.

HOWARD COUNTY SEDIMENT CONTROL GENERAL NOTES

Developer Certification
 "We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a certificate of attendance of a department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 Signature of Developer: *Gregory R. Mar* Date: 6-5-95
 Signature of Engineer: *Gregory R. Mar* Date: 6-5-95

"I certify that this plan for pond construction, erosion and sediment control represents a practicable and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
 Signature of Engineer: *John W. Rencovich, Sr.* Date: 6-1-95
 Signature of U.S. Soil Conservation District: *John K. Robertson* Date: 6/12/95

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Richard M. Daniels 7-20-95
 CHIEF, BUREAU OF HIGHWAYS DATE
 CHIEF, BUREAU OF ENGINEERING DATE
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Uma Summery 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH
SECTION 4 AREA 2

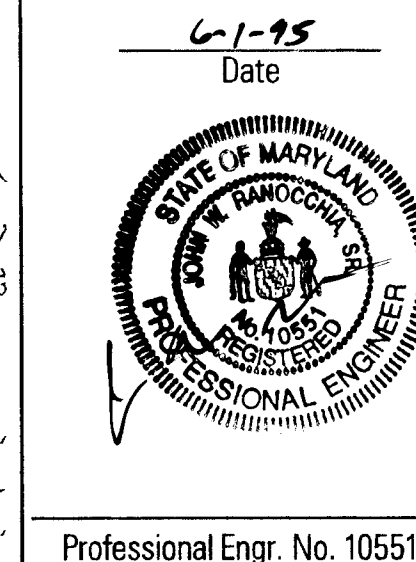
OWNER /DEVELOPER:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DMW
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SECTION 4, AREA 2, E1-E98 & F1-F59
 TAX MAP 37 PARCELS E&F
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

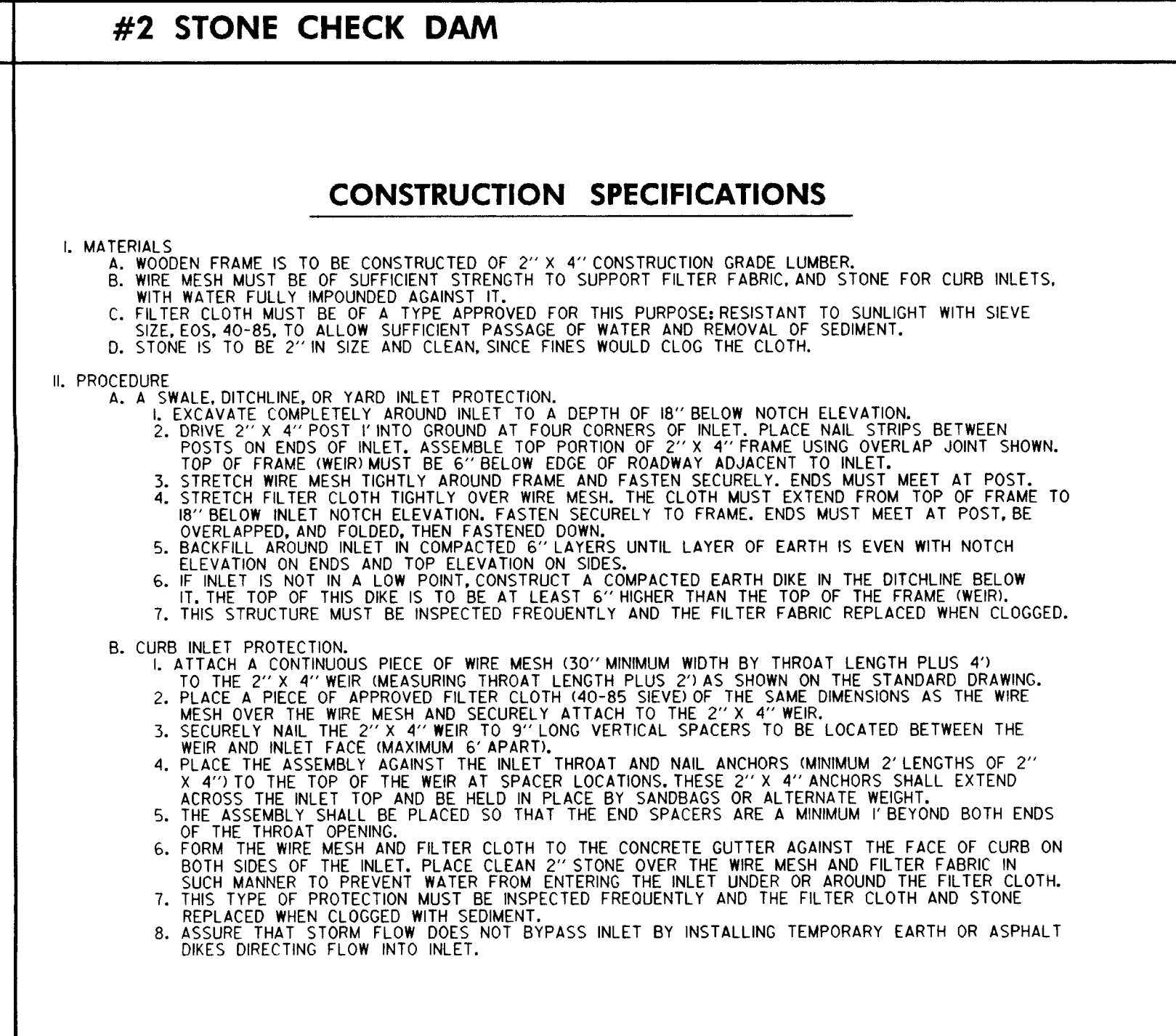
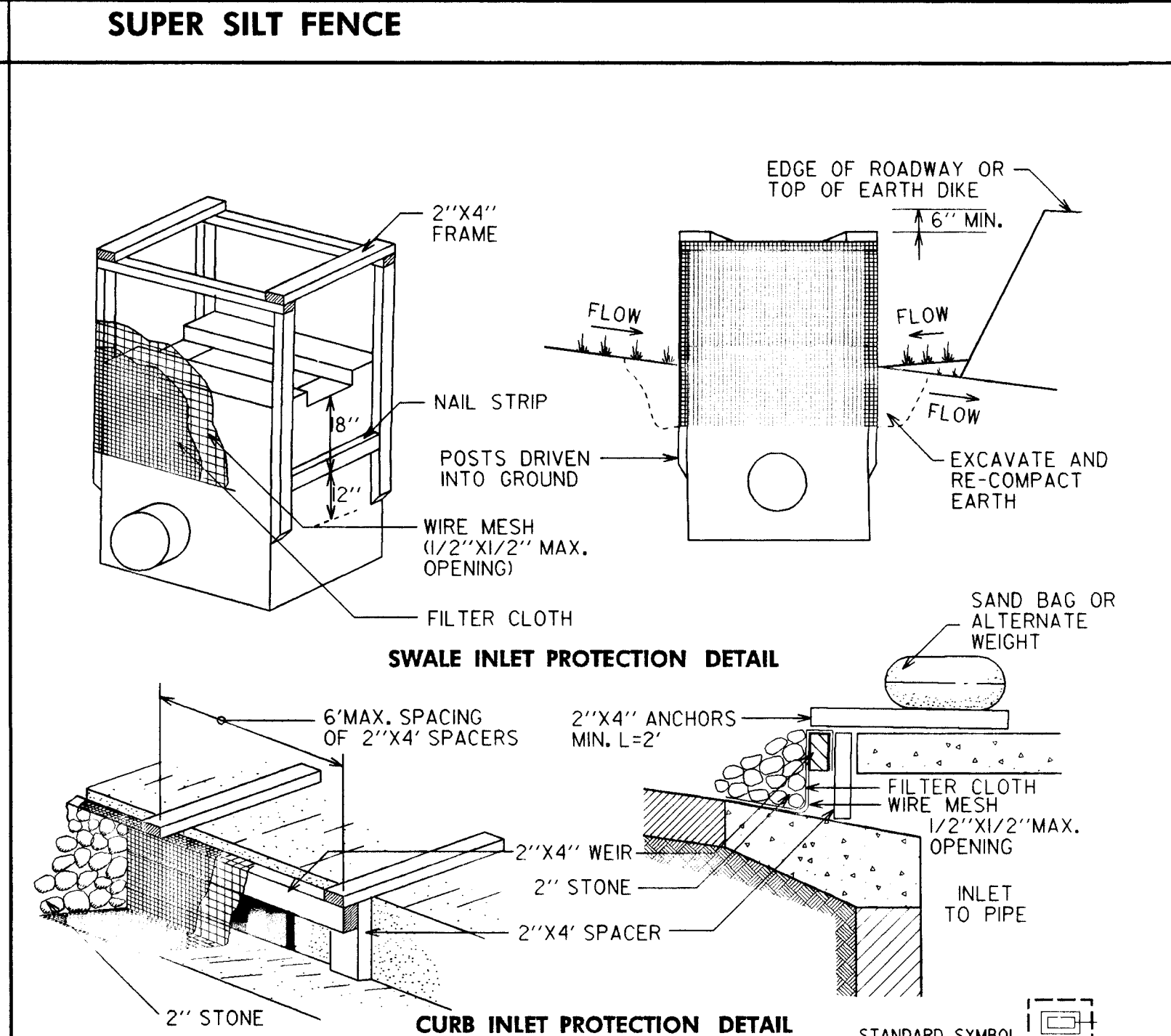
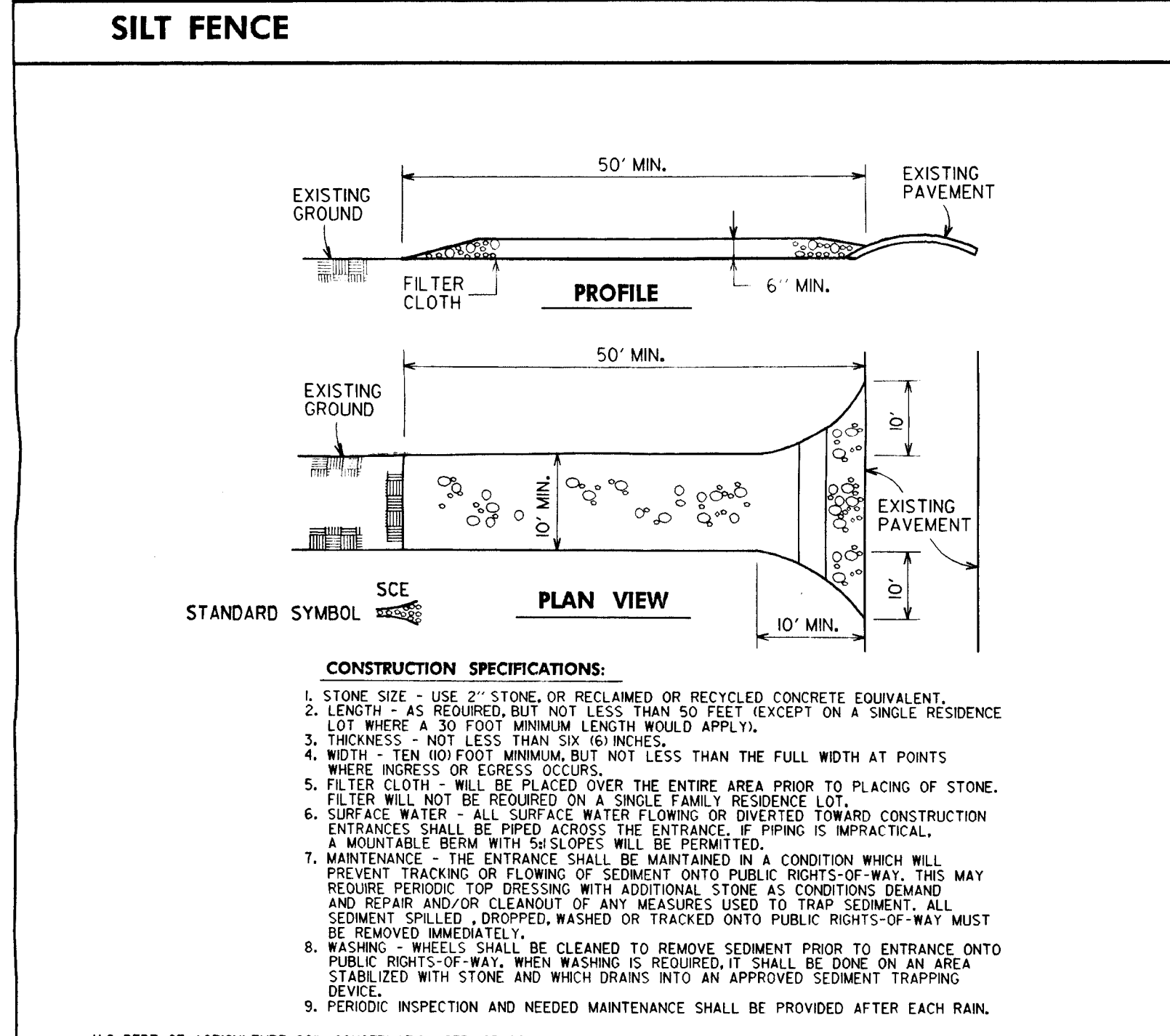
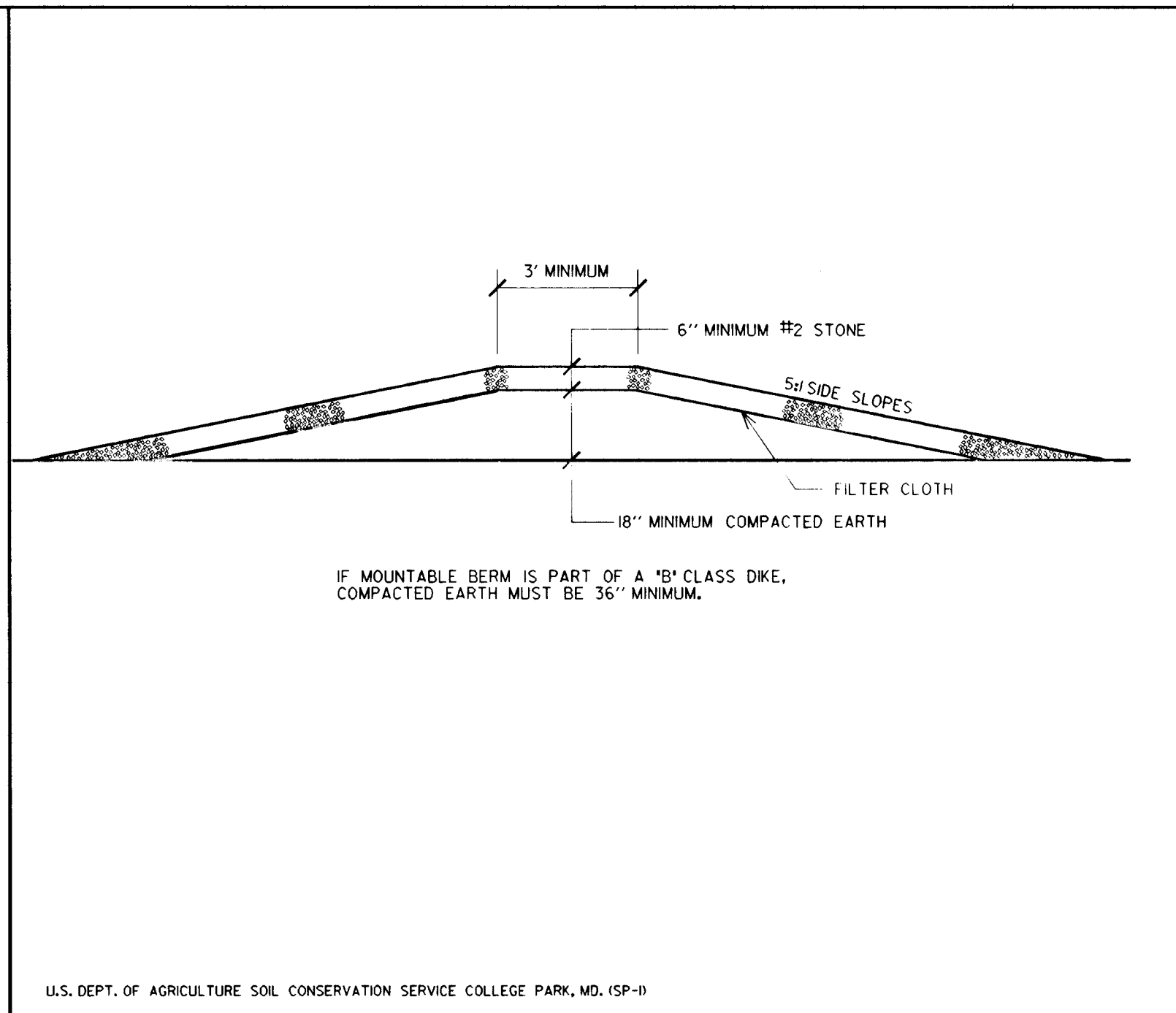
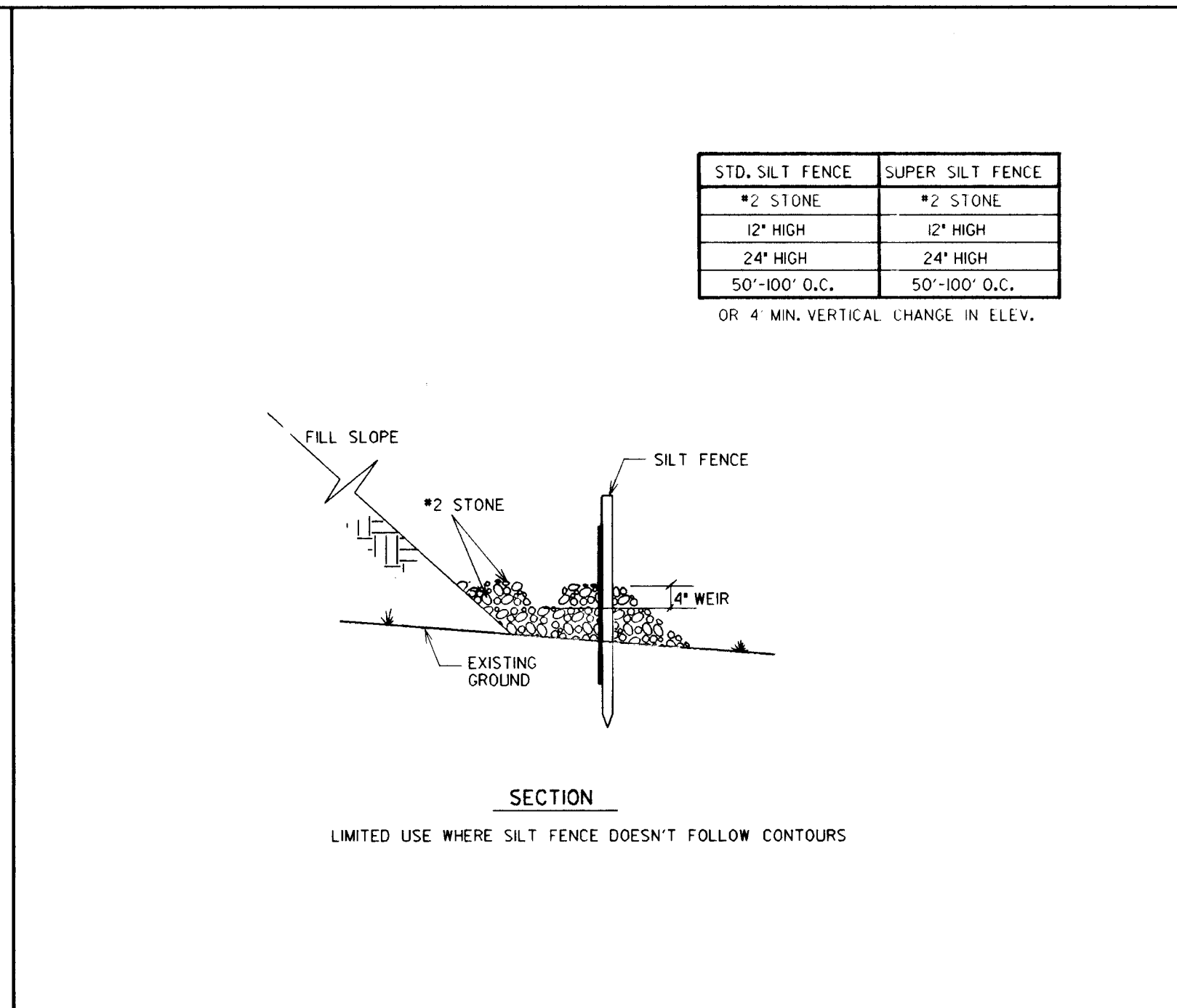
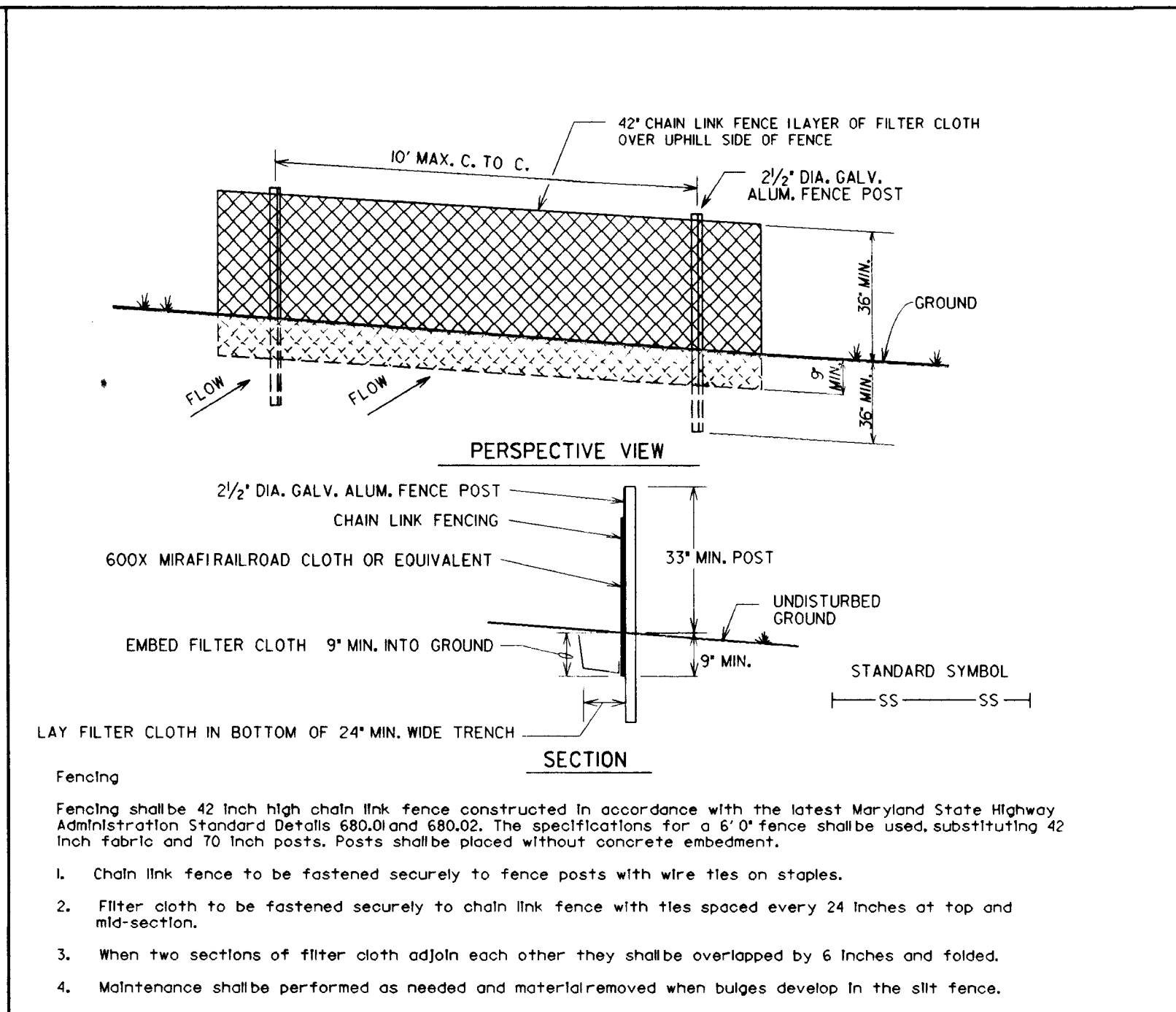
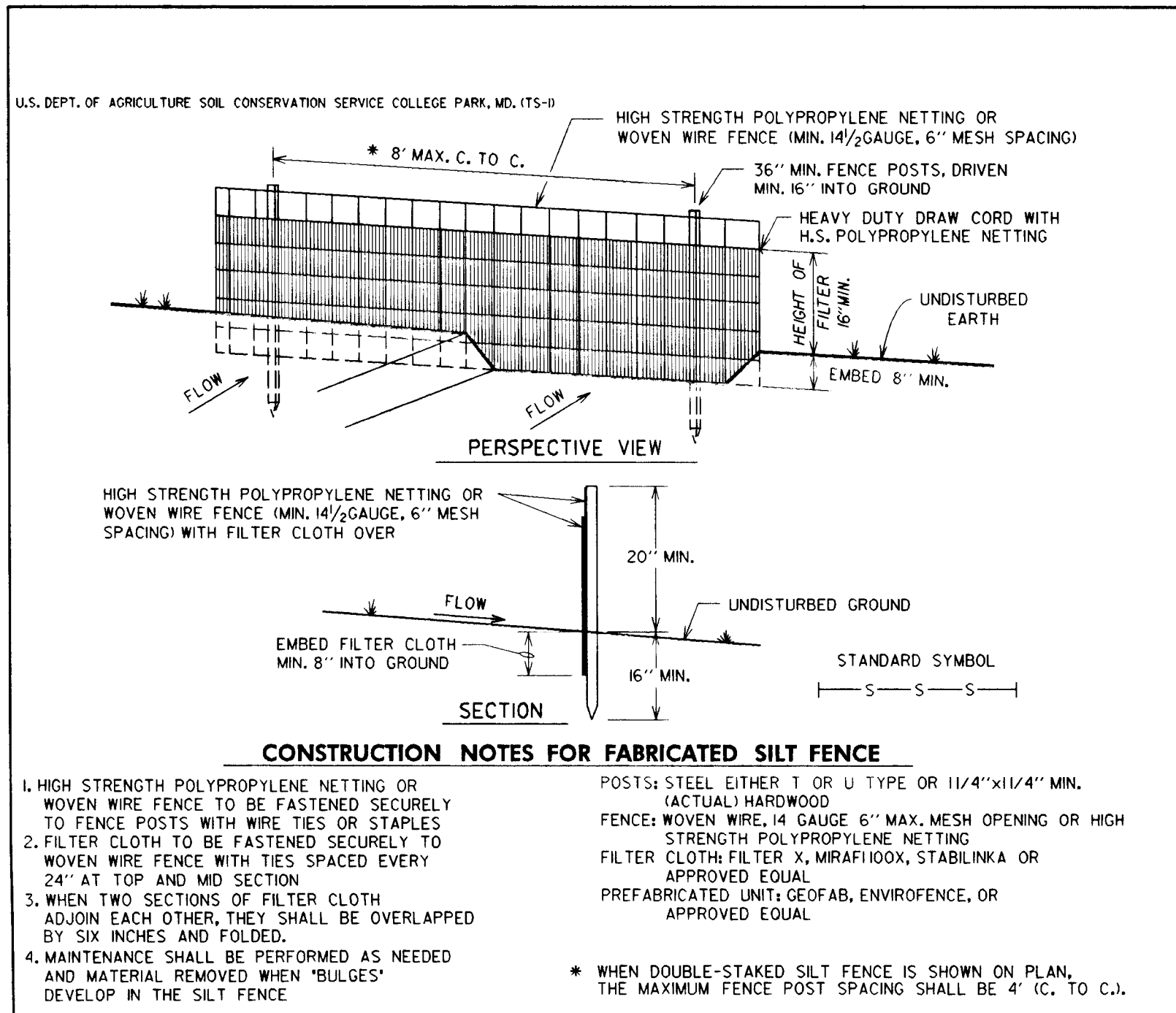
SEDIMENT CONTROL PLAN

Des By	CRW	Scale	1" = 50'	Proj. No.	94020B
Drn By	CEV	Date	JUNE 95		
Chk By	JWR	Approved			8 OF 10



Professional Engr. No. 10551

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MOUNTABLE BERM DETAIL

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

Approved: *John B. B. B.* 6/2/95
 HOWARD COUNTY, M.D.

Reviewed for: HOWARD COUNTY, M.D.
 and meets the requirements of the
 USDA NATIONAL BEST MANAGEMENT PRACTICE

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Andrew M. Daniels 7-20-95
 CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
John Danum 7/21/95
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Gina Summerville 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE

SEEDING NOTES

Permanent Seeding Notes
 Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeds Preparation - Loosen upper 3 inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

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./1,000 sq. ft.) and 1,000 lbs. per acre 10-20-10 fertilizer (4 lbs./1,000 sq. ft.) before seeding. Harrow or disk into upper 3 inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1,000 sq. ft.).
 2. **Acceptable** - Apply 2 tons per acre dolomitic limestone (92 lbs./1,000 sq. ft.) and 1,000 lbs. per acre 10-10-10 fertilizer (23 lbs./1,000 sq. ft.) before seeding. Harrow or disk into upper 3 inches of soil.

Seeding - For the periods March through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1,000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 lbs./1,000 sq. ft.) of weeping lovegrass. During the period of October 16 through February 28, protect site by Option III - 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./1,000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after applications using mulch anchoring tool or 20 gallons per acre 15 gal./1,000 sq. ft.) of emulsified asphalt on flat areas. On slopes 3 feet or higher, use 348 gallons per acre (8 gal./100 sq. ft.) for anchoring.

Maintenance - Inspect all seeding area and make needed repairs, replacements and reseed.

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

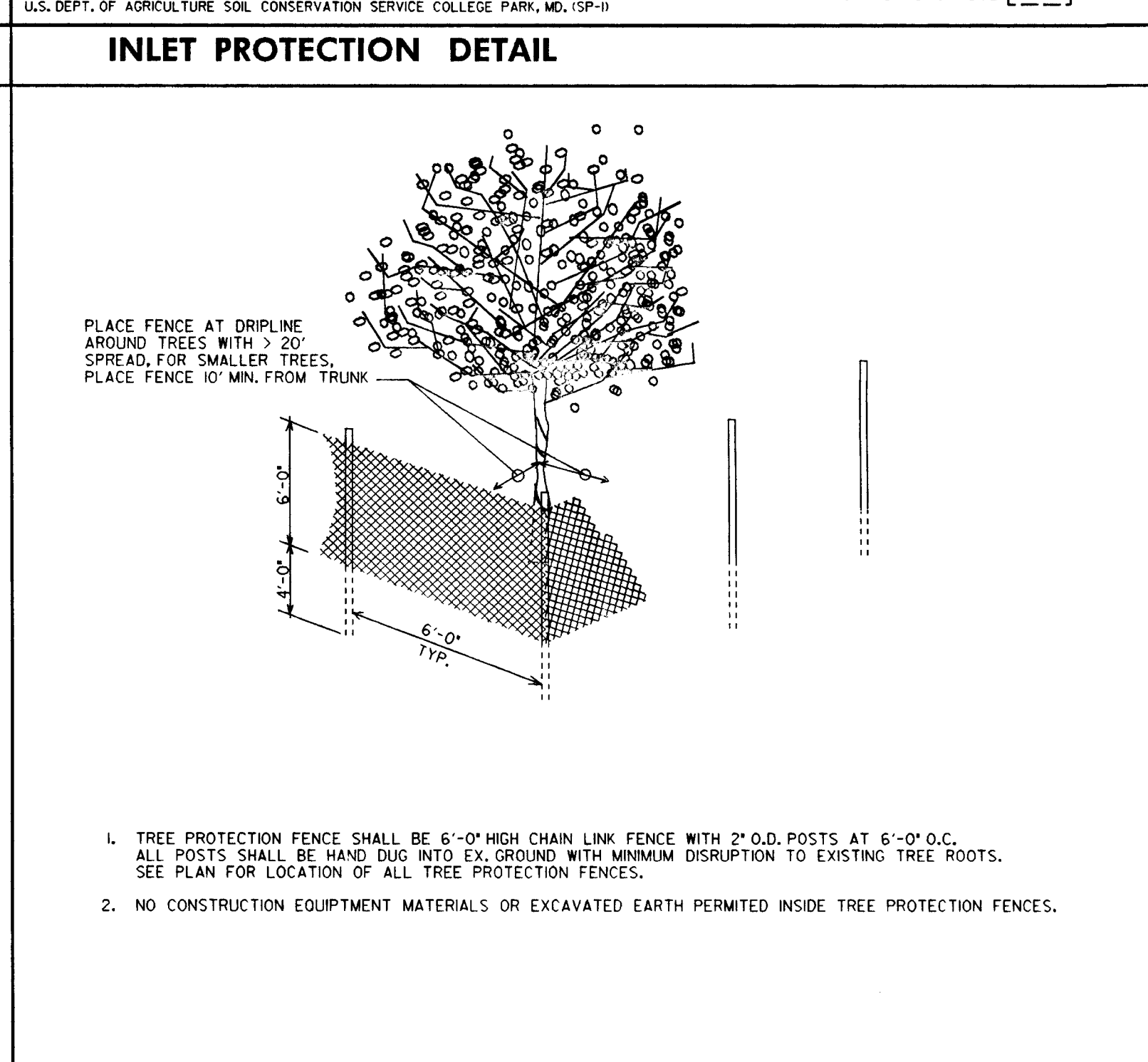
Seeds Preparation - Loosen upper 3 inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

Soil Amendments - Apply 600 lbs. per acre 10-10-10 fertilizer (4 lbs./1,000 sq. ft.).

Seeding - For the periods March through April 30, and August 1 through October 15, seed with 2 1/2 bushels per acre of annual ryegrass (32 lbs./1,000 sq. ft.). For the period May 1 through August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1,000 sq. ft.). For the period November 15 through 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./1,000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after applications using mulch anchoring tool or 20 gallons per acre 15 gal./1,000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./100 sq. ft.) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for additional rates and methods not covered.



VILLAGE OF LONGREACH
 SECTION 4 AREA 2

OWNER /DEVELOPER:
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DMTA
 Dan McCune-Walker, Inc.
 Towson, Maryland 21286
 (410) 286-3333
 Fax: 286-4708

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

SECTION 4, AREA 2, E1-E9B & F1-F59
 TAX MAP 37 PARCELS E&F
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL DETAILS

Des By CRW Scale 1" = 50' Proj. No. 94020B
 Dwn By CEV Date JUNE 95
 Chk By JWR Approved JWR 9 OF 10

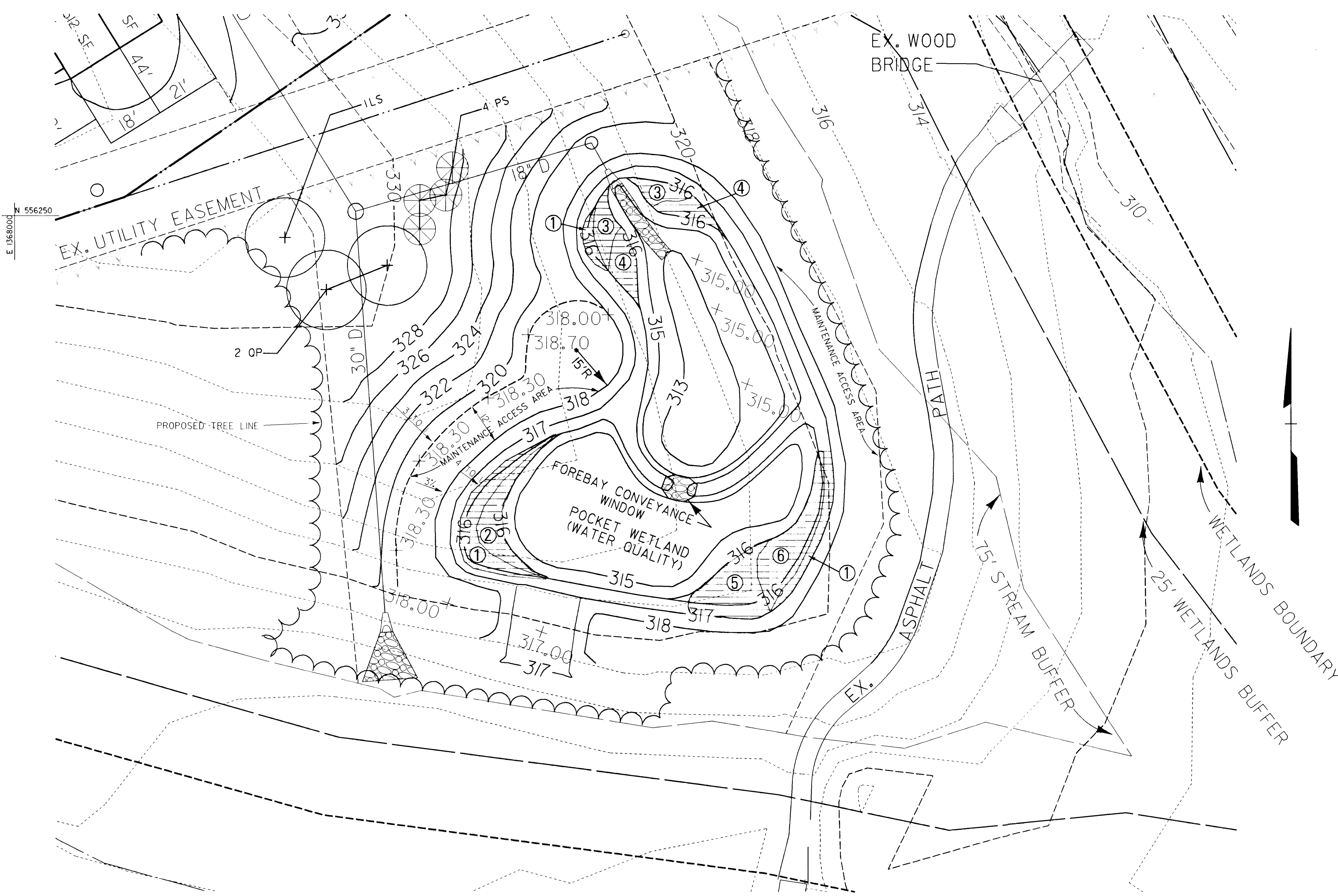
Professional Engr. No. 10551

Professional Engr. No. 10551

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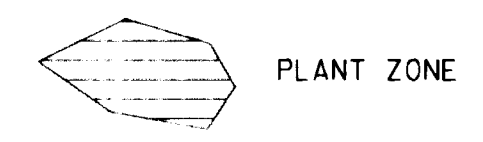
Wed May 31 17:55:44 1995 /usr/940201/940201.dwg F-95-126

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ZONE	SPECIES	ROOT	SPACING	QUANTITY
1.	SAURURUS CERNUJUS	1 GAL. CONT	2' O.C.	126
2.	RANUNCULUS FLABELLARIIS	TUBER	2' O.C.	88
3.	IRIS PSEUDACORUS	TUBER	2' O.C.	88
4.	IRIS VERSICOLOR	TUBER	2' O.C.	100
5.	SAGITTARIA LATIFOLIA	TUBER	2' O.C.	100
6.	PONTEDERIA CORDATA	TUBER	2' O.C.	100

① ZONE NUMBER



TREES
 1 LS - LIQUIDAMBAR STYRACIFLUA (SWEET GUM)
 4 PS - PINUS STROBUS (WHITE PINE)
 2 OP - QUERCUS PALUSTRIS (PIN OAK)



APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Andrew M. Daniels 7-20-95
 CHIEF, BUREAU OF HIGHWAYS DATE

CHIEF, BUREAU OF ENGINEERING DATE
John Damm 7/21/95
 CHIEF, LAND DEVELOPMENT DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Gina Surramani 7/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH

SECTION 4 AREA 2

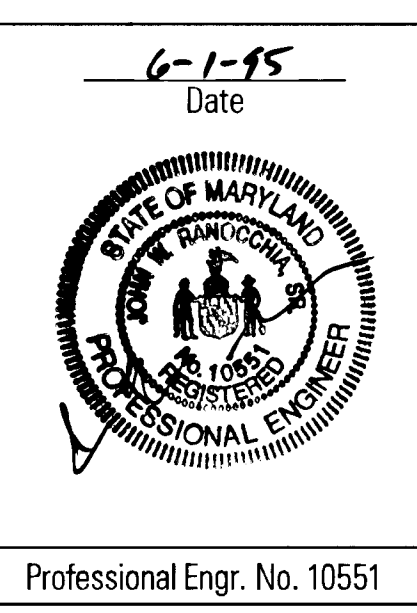
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SECTION 4, AREA 2, E1-E98 & F1-F59
 TAX MAP 37 PARCELS E&F
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

WATER QUALITY FACILITY PLANS

Des By	RCP	Scale	1" = 20'	Proj. No.	94020B
Dwn By	CEV	Date	JUNE 95		
Chk By	JWR	Approved	JWR		10 OF 10



Professional Engr. No. 10551

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