

NOTE:

M.D.E. WATER QUALITY CERTIFICATION NO. 22-102-0227 HAS BEEN ISSUED FOR THIS PROJECT. EXPIRATION DATE: 1-12-99. WETLANDS MITIGATION PLAN IS TO BE PROVIDED FOR THIS PROJECT. 0.846 AC (36,850 SF) OF WETLANDS ARE DISTURBED AT THE WESLEY LANE ROAD CROSSING. THE MITIGATION PLAN SHALL PROVIDE FOR A 2:1 MITIGATION AREA OF 1.692 AC (73,700 SF). ONE NONWATER WETLANDS AND WATERWAYS PERMIT NO. 91-NT-0572 HAS BEEN ISSUED EFFECTIVE JUNE 30, 1993, EXPIRATION JANUARY 6, 1995. DUE TO THE REDUCTION IN PAVEMENT WIDTH ON WESLEY LANE THE WETLAND DISTURBANCE HAS BEEN REDUCED FROM THE 39,000 SF ALLOWED IN THE PERMITS OBTAINED FOR THIS PROJECT.

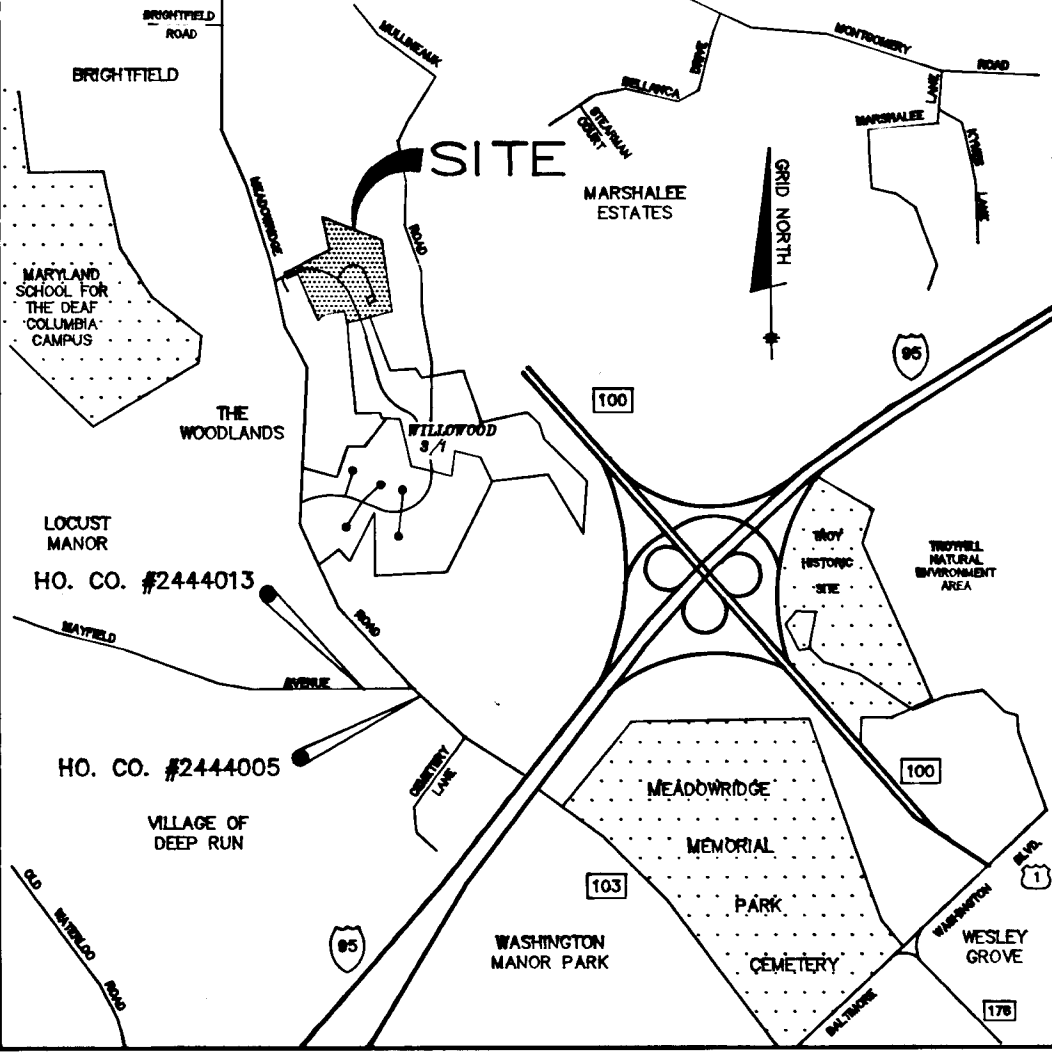
CENTERLINE CURVE DATA						
Q STA.	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
3+30.47	1140.44	470.00'	773.95'	507.10'	N 61°12'39" W	94°20'50"
12+49.61	1246.74	1750.00'	81.07'	40.54'	N 12°42'32" W	02°39'15"
17+19.61	264.37'	125.00'	264.37'	221.74'	N 72°20'40" W	121°10'43"

STREET LIGHT LEGEND			
ROAD	Q STATION	OFFSET	TYPE
WESLEY LANE	5 + 75	15.5' LEFT	100 WATT HIGH PRESSURE SODIUM VAPOR TRADITIONAIRE POST TOP MOUNTED ON 14 FOOT BLACK FIBERGLASS POLE
CAMBRIA TERRACE	1 + 98	16.5' LEFT	
	3 + 50	16.5' LEFT	
	8 + 98	16.5' RIGHT	

BENCH MARKS	
HO. CO. #2444005	ELEV. 271.249
CONC. MONUMENT 0.5' BELOW SURFACE, ON THE WEST SIDE OF MEADOWRIDGE RD. SOUTH OF MAYFIELD RD.	
N 495580.271	E 863126.170
HO. CO. #2444013	ELEV. 268.109
CONC. MONUMENT AT SURFACE, 17.1' NORTH OF CENTERLINE OF WESLEY AVE.	
N 495646.964	E 862542.349

CENTERLINE CONTROL DATA			
ROAD	Q STA.	NORTH	EAST
WESLEY LANE	0+00	499883.4696	861714.2092
	2+87.78	499974.2399	861987.2925
	PC 3+30.47	499987.7007	862027.8034
	PT 11+04.42	499955.6823	862632.0132
	PC 12+49.61	499479.8450	862675.9722
CAMBRIA TERRACE	0+00	499861.8323	862520.1534
	PC 1+19.23	499943.0484	862607.4496
	PT 3+83.60	499876.9965	862814.9718
	6+99.44	499567.7827	862879.3169
	7+77.44	499551.8919	862802.9528
9+18.44	499629.4614	862866.4820	

- NOTE:**
- SEE GRADING PLAN FOR PAVEMENT AND TOP OF CURB ELEVATIONS NOT SHOWN ON THIS PLAN.
 - SEE SHEET 4 FOR STRUCTURE SCHEDULE.
 - THE STORM DRAIN CONNECTION AND SWM FACILITY PROVIDED IN WILLOWOOD 3/1 (F-92-82) WILL BE CONSTRUCTED IN CONJUNCTION WITH THIS PROJECT.
 - SEE SHEET 4 FOR 72" CULVERT SPECIFICATION AND DETAIL.
 - SEE TYPICAL ROAD SECTION (SHEET 2) FOR SIDEWALK DIMENSIONS IN PARKING AREA.
 - PRIVATE MAINTENANCE WITHIN COUNTY RIGHT-OF-WAY SHALL INCLUDE ROUTINE MAINTENANCE SUCH AS LITTER REMOVAL, RESTRIPIPING, ETC. THE COUNTY SHALL BE RESPONSIBLE FOR PAVEMENT RESURFACING AND STRUCTURAL (E.G. CURB & GUTTER) REPAIR.
 - ALL SIDEWALK RAMPS WILL COMPLY WITH ADA CRITERIA.
 - DEPARTMENT OF PUBLIC WORKS APPROVED WAIVER TO ALLOW THE SUBSTANDARD HORIZONTAL CURVE AND TYPICAL SECTION FOR WESLEY LANE.
- THOMAS C. RICE
ZONED R-SC



GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County.
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (410) 792-7272 at least five (5) working days prior to the start of work.
- The contractor shall notify 'Site Utility' at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Project Background: Location: Tax Map 37 - Parcels 77 & 80 Zoning: R-50 Section 4 Total Tract Area: 21.99 Ac. Section Area: 16.36 Ac. Number of Proposed Lots: 45 Date Preliminary Plan Approved: October 23, 1991 DPZ Reference #: P-91-11
- Traffic control devices, markings, and signs 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.
- Topography taken from field run survey by Land Design, Inc., 1989.
- Howard County monuments 2444005 and 2444013 used for horizontal and vertical datum (NAD 83).
- Light poles and fixtures for street lights shall be in accordance with latest Howard County Design Manual, Volume III, Roads and Bridges.
- Water and Sewer for this subdivision is provided in Willowood 3/1, Contract No. 14-325B-D.
- Stormwater Management is infiltration, public in Willowood 3/1.
- Existing utilities were located by record drawings and field run survey by Land Design, Inc., 1991.
- Floodplain Study compiled by TSA Group, Inc., 5/92.
- Wetlands Delineation Study compiled by EXPLORATION RESEARCH, INC.
- NOISE STUDY COMPILED BY LAND DESIGN, INC.
- CENTERLINE AS SHOWN ON PLAN REFERS TO CENTERLINE OF RIGHT-OF-WAY, CENTERLINE OF PAVEMENT AND BASELINE FOR CONSTRUCTION EXCEPT FROM 6+84.718 TO 6+24.94 WHERE THE PAVEMENT CENTERLINE DIFFERS DUE TO THE TRANSITION AND OFFSET OF ROADWAY WITHIN THE RIGHT-OF-WAY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John Cammer
CHIEF, BUREAU OF CONSTRUCTION DIVISION
9/9/93 DATE

Andrew M. Danek
CHIEF, BUREAU OF HIGHWAYS
9-8-93 DATE

Paul J. Sporn
CHIEF, BUREAU OF ENGINEERING
9/2/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Gina Surramani
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
9/22/93 DATE

NO.	DATE	REVISION
1	3/4/94	REVISE SIDEWALK TO 4' W/5' PAD EVERY 200'. REVISE US DE WETLANDS LINE DELETE MITIGATION 1 NOISE HAZARD NOTE, REVISE PAR. B, O.S. LOTS 93-194 AND LANDSCAPED BUFFER, REVISE STORM DRAINAGE COMPS.
2	5/24/95	REVISE E-1 (ENDWALL) TO I-10 (TYPE X GATE INLET)

TSA GROUP, INC.
planning • architecture • engineering
8480 Baltimore National Pike • Elliott City, Maryland 21043 • (410)460-6100

John Cammer

SHEET INDEX	
No.	DESCRIPTION
1.	ROAD PLAN
2.	ROAD PROFILES & DETAILS
3.	DRAINAGE AREA MAP & STORM DRAIN PROFILES
4.	STORM DRAIN PROFILE AND DETAILS
5.	GRADING PLAN
6.	SEDIMENT & EROSION CONTROL PLAN
7.	SEDIMENT & EROSION CONTROL NOTES & DETAILS
8.	PLANTING PLAN

OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP 9030 RED BRANCH ROAD SUITE 250 COLUMBIA, MARYLAND 21045 (410) 740-3323

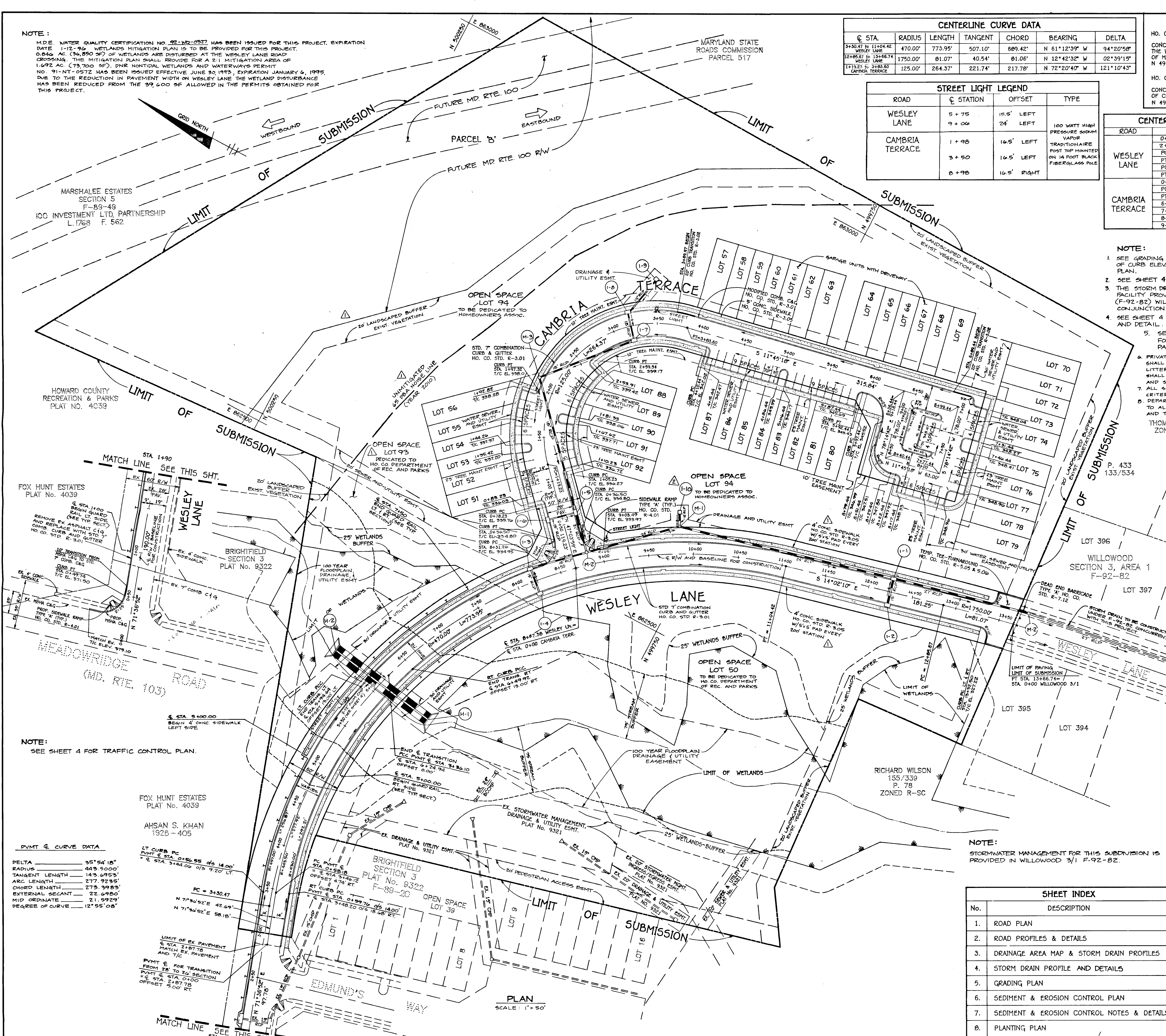
PROJECT: BRIGHTFIELD SECTION 4 LOTS 50-94 AND PARCEL B

LOCATION: TAX MAP 37 - PARCELS 77 & 80 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: PLAN OF WESLEY LANE AND CAMBRIA TERRACE 5-09-22 P-91-11 F-09-20

DATE: MAY 15, 1992 PROJECT NO. 0340
JUNE 15, 1993

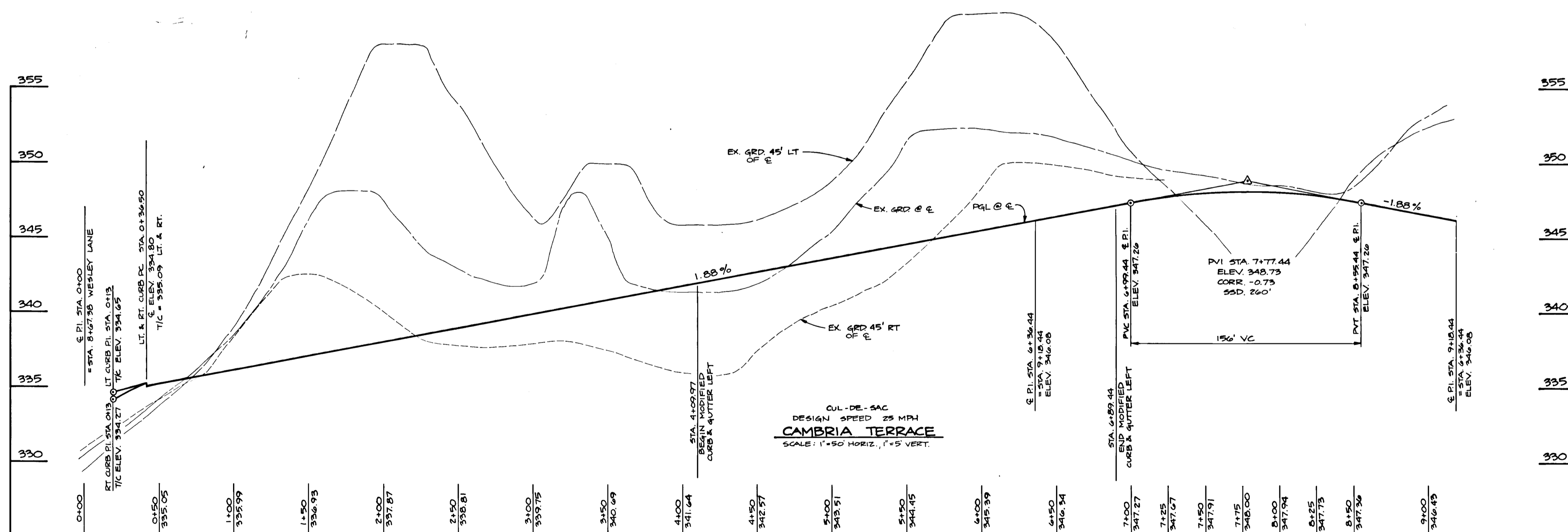
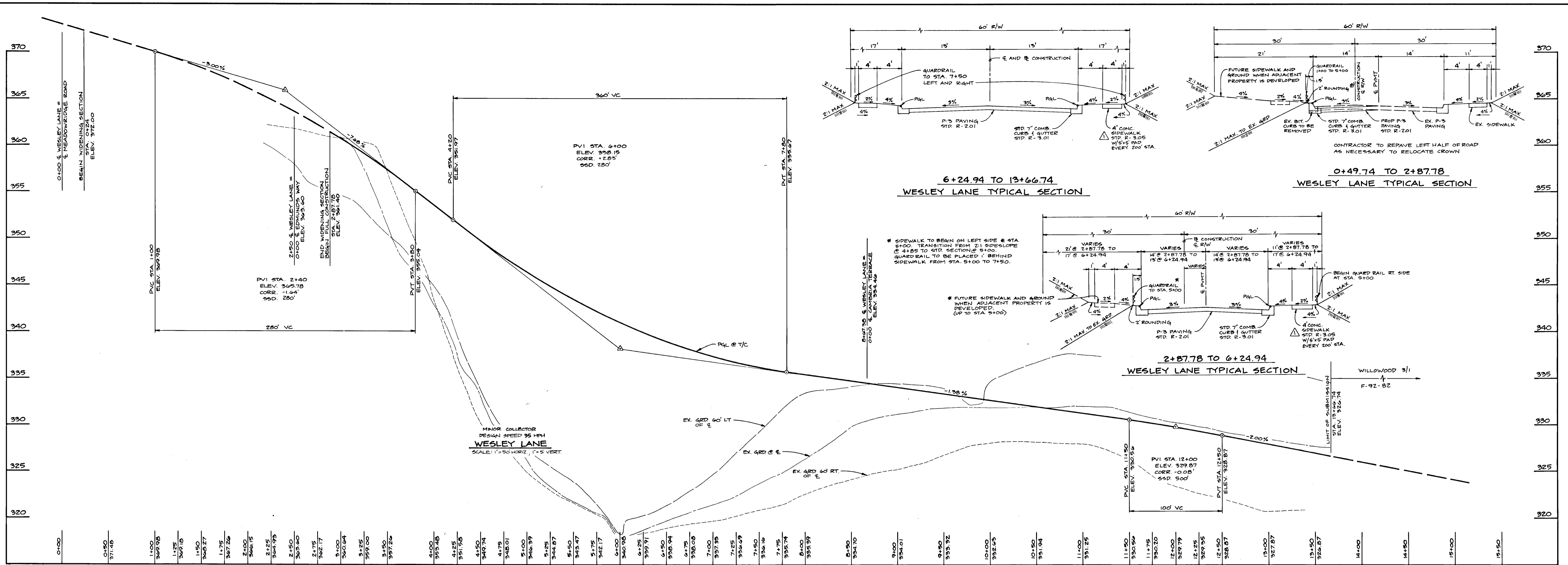
DES: JME/DRK DRN: DRK/DBT SCALE: AS SHOWN DRAWING 1 OF 8



NOTE:
SEE SHEET 4 FOR TRAFFIC CONTROL PLAN.

PVMT & CURVE DATA	
DELTA	35°54'18"
RADIUS	443.5000'
TANGENT LENGTH	143.6953'
ARC LENGTH	277.9235'
CHORD LENGTH	279.3985'
EXTERNAL SECANT	22.6980'
MID ORDINATE	21.5929'
DEGREE OF CURVE	12°55'08"

1382



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John J. ...
 CHIEF, BUREAU OF ENGINEERING
 DATE: 9/9/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Gina ...
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 9/22/93

NO.	DATE	REVISION
3/4/94		REVISE SIDEWALK TO 4' W/5'x6" PAD EVERY 200'. REVISE GS DBA ABOVE LINE PER LETE MITIGATION (NOISE HEARD NOTE, REVISE PAR 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 AND LANDSCAPED BUFFER, REVISE STORM DRAINAGE DITCH).

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410)485-8105

OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP, 9030 RED BRANCH ROAD, SUITE 250, COLUMBIA, MARYLAND 21045 (410) 740-3923

PROJECT: BRIGHTFIELD SECTION 4, LOTS 90-94 AND PARCEL B

LOCATION: TAX MAP 37 - PARCELS 77 & 80, 1st ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

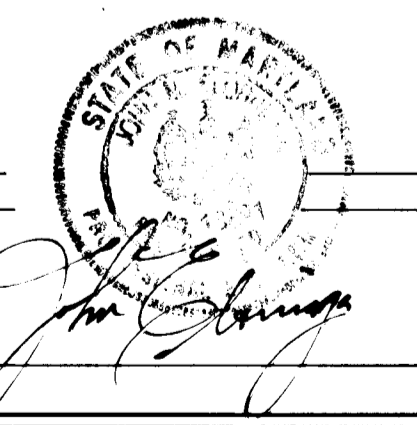
TITLE: ROAD PROFILES & DETAILS
 5-89-22 P-91-11 F-89-20

DATE: MAY 15, 1992
 JUNE 15, 1993

PROJECT NO. 0340

SCALE: AS SHOWN

DRAWING 2 OF 2



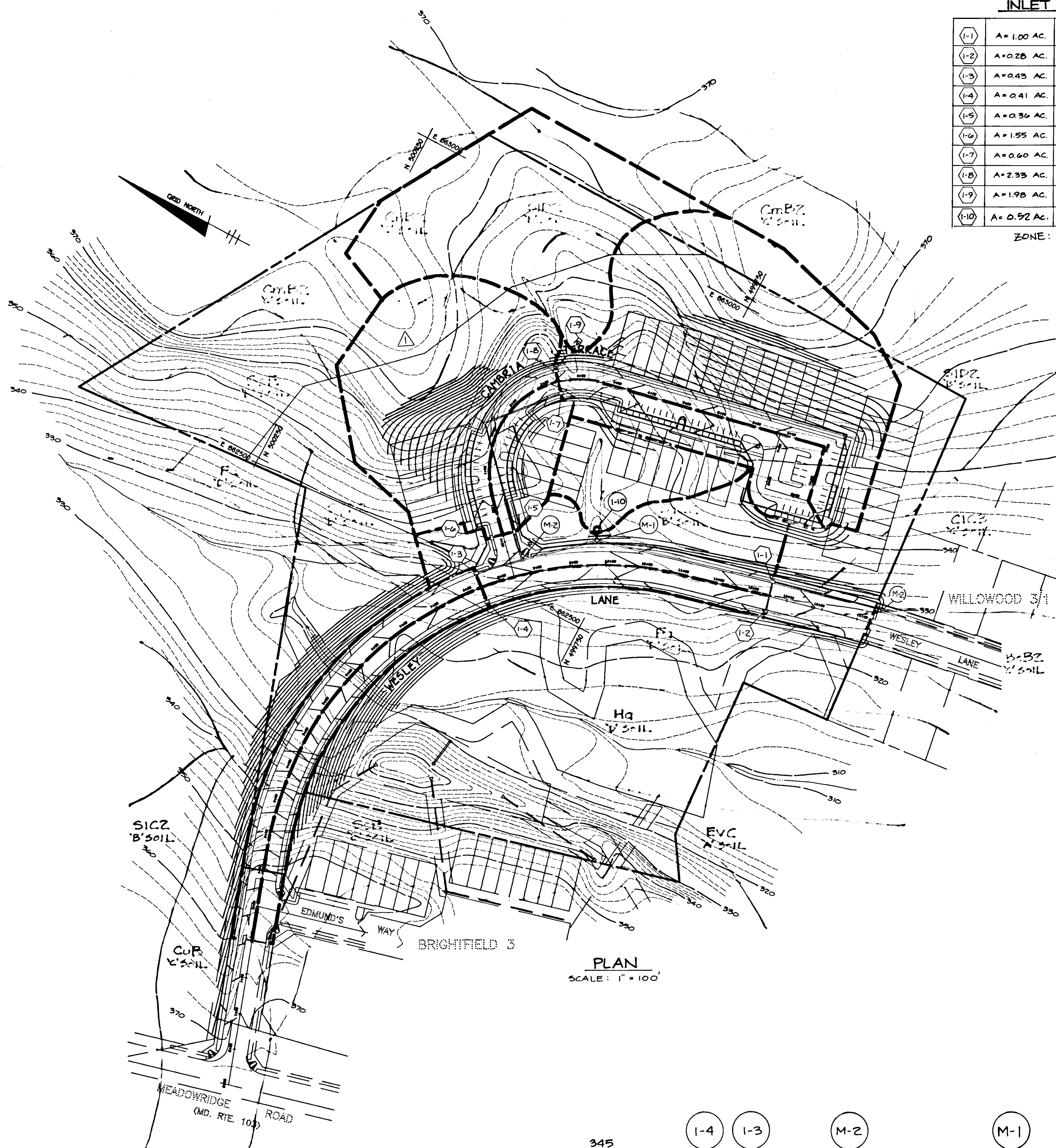
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INLET DATA

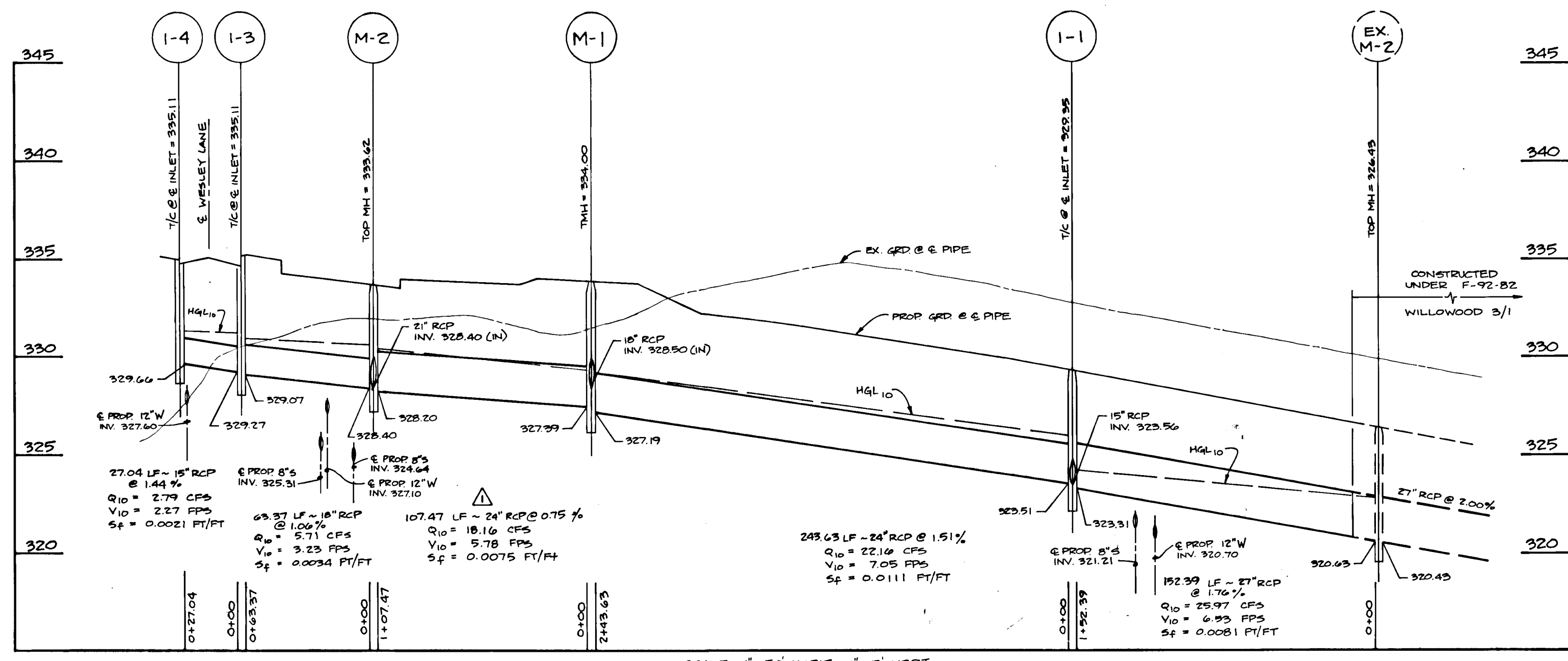
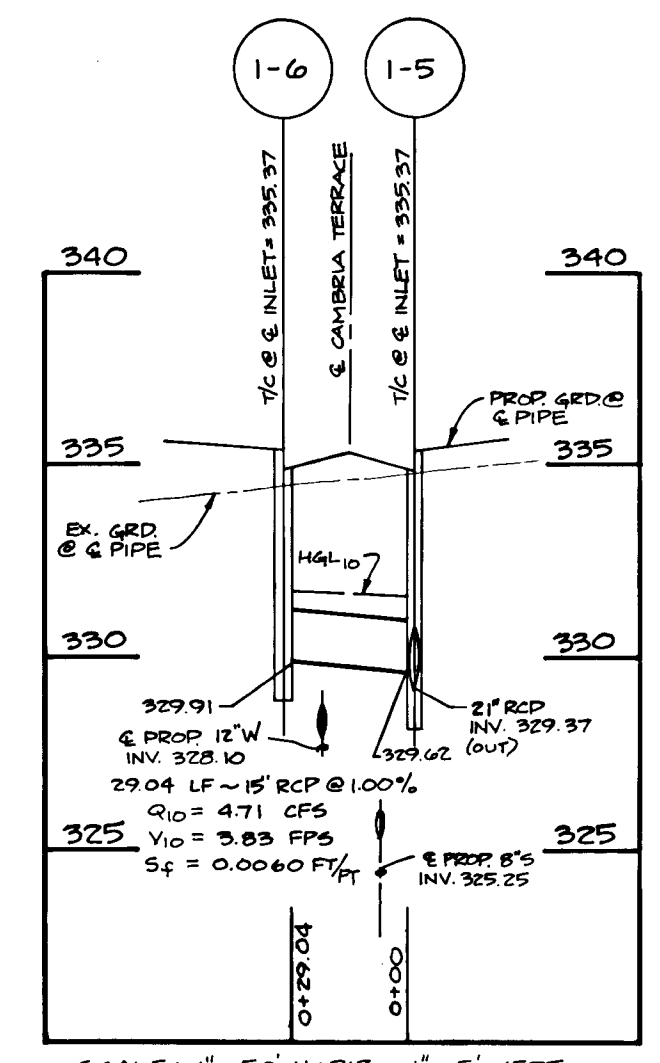
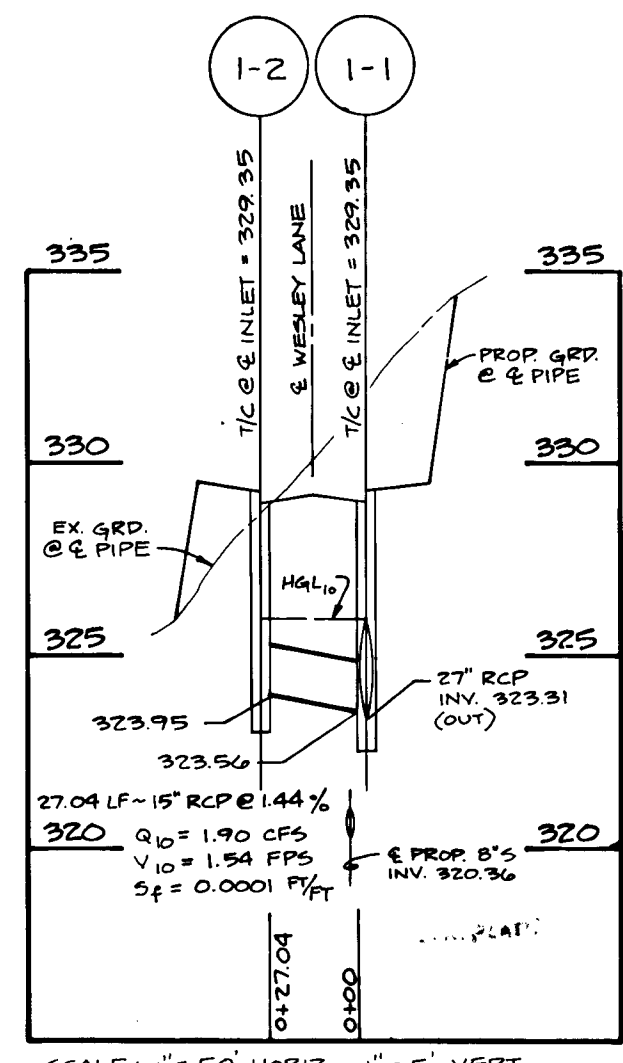
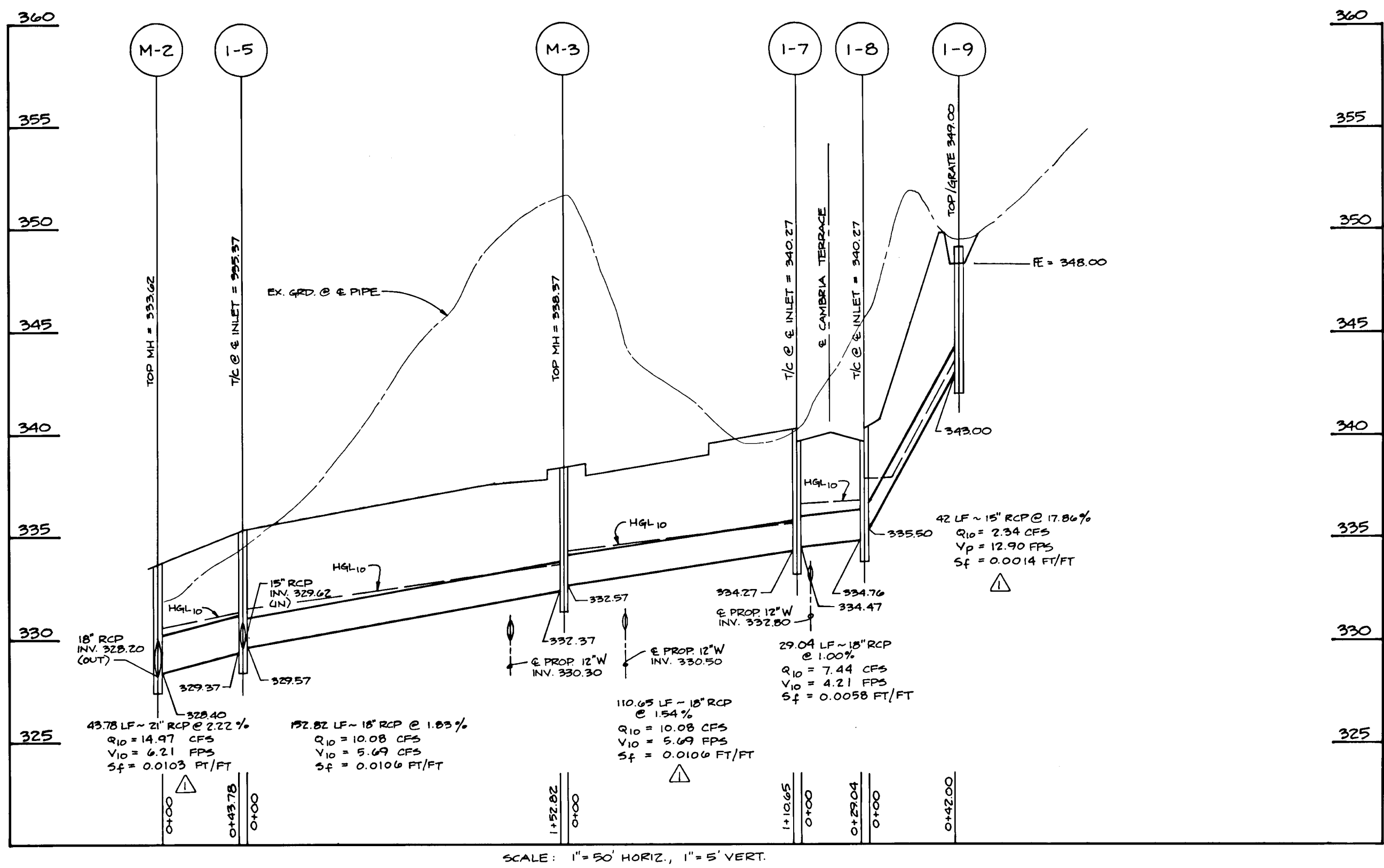
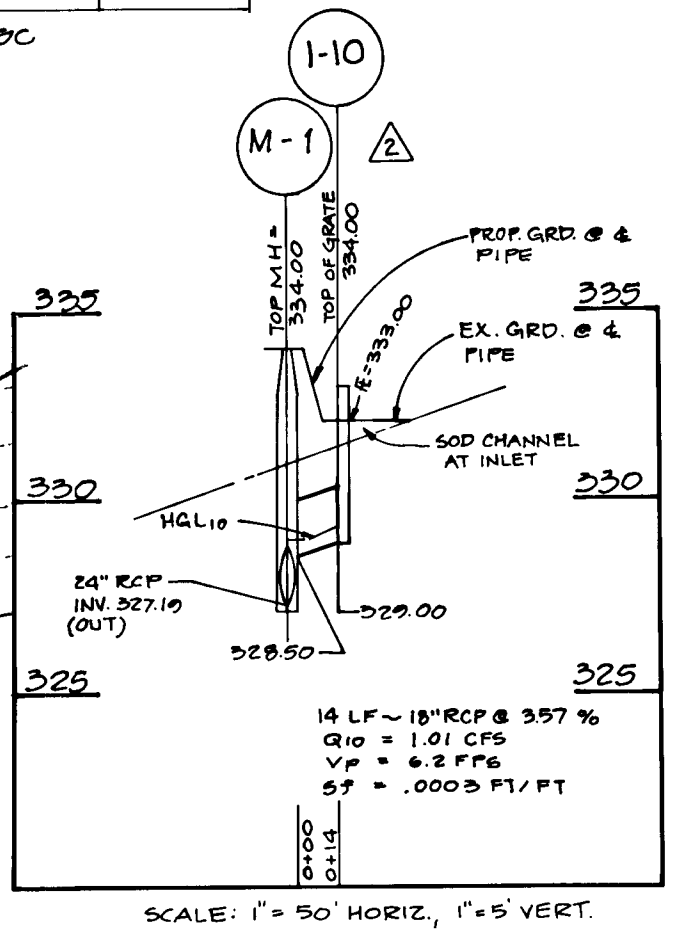
(1-1)	A=1.00 AC.	C=0.48	30% IMP
(1-2)	A=0.28 AC.	C=0.80	80% IMP
(1-3)	A=0.43 AC.	C=0.80	80% IMP
(1-4)	A=0.41 AC.	C=0.80	80% IMP
(1-5)	A=0.36 AC.	C=0.66	60% IMP
(1-6)	A=1.95 AC.	C=0.40	25% IMP
(1-7)	A=0.60 AC.	C=0.77	75% IMP
(1-8)	A=2.33 AC.	C=0.39	25% IMP
(1-9)	A=1.98 AC.	C=0.20	10% IMP
(1-10)	A=0.92 AC.	C=0.30	20% IMP

ZONE: R9C

- NOTES:**
- ALL STORM DRAIN BEDDING SHALL BE CLASS C.
 - ALL STORM DRAIN PIPE SHALL BE CLASS 4 REINFORCED CONCRETE.



PLAN
SCALE: 1"=100'



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Doucette
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 9/8/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Gina Surmanjic
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 9/22/93

NO.	DATE	REVISION
1	3/4/94	REVISE SIDEWALK TO 4' W/5" R/W EVERY 200', REVISE GS DRAIN HOPE LINE, DELETE MITIGATION / NOISE HAZARD NOTE
2	5/24/95	REVISE E-1 (ENDWALL) TO 1-10 (TYPE K GRATE INLET)

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Millcott City, Maryland 21045 • (410)460-8100

OWNER/DEVELOPER: **LIMITED PARTNERSHIP**
 9030 RED BRANCH ROAD
 SUITE 250
 COLUMBIA, MARYLAND 21045
 (410) 740-3323

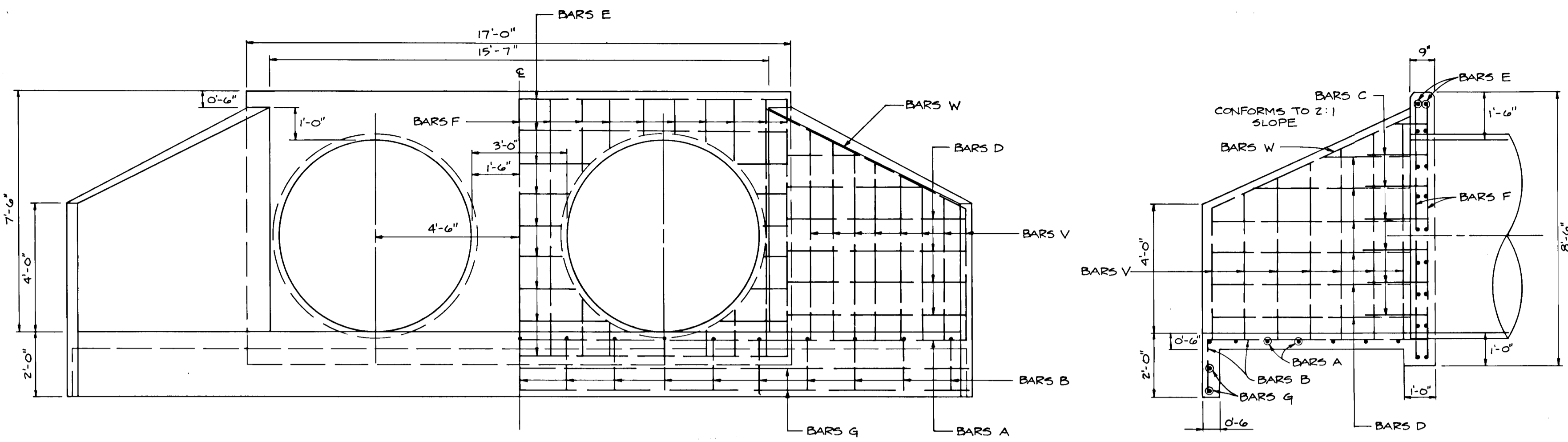
PROJECT: **BRIGHTFIELD SECTION 4**
 LOCATION: TAX MAP 37 - PARCELS 77 & 80
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **DRAINAGE AREA MAP & STORM DRAIN PROFILES**
 5-89-22 P-91-11 F-89-20

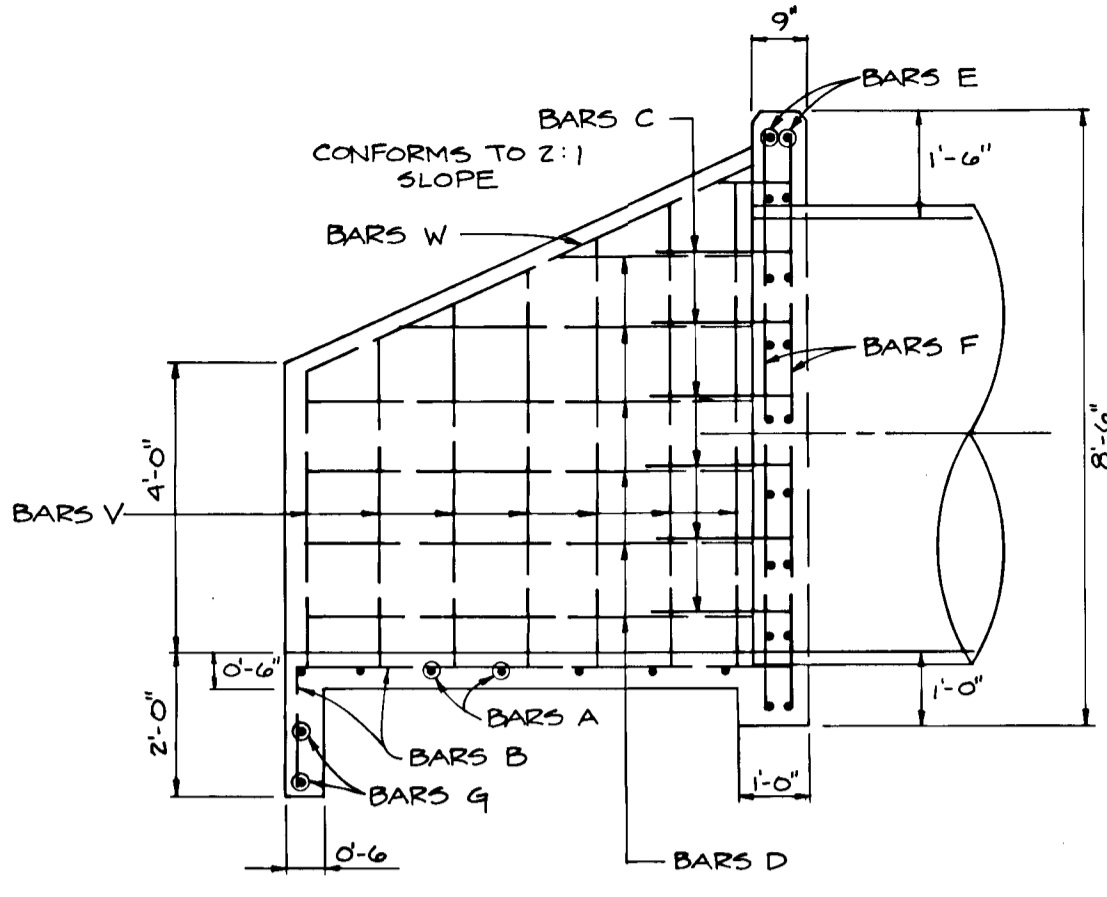
DATE: MAY 15, 1992
 JUNE 15, 1993

PROJECT NO. 0340
 SCALE: AS SHOWN
 DRAWING 3 OF 8

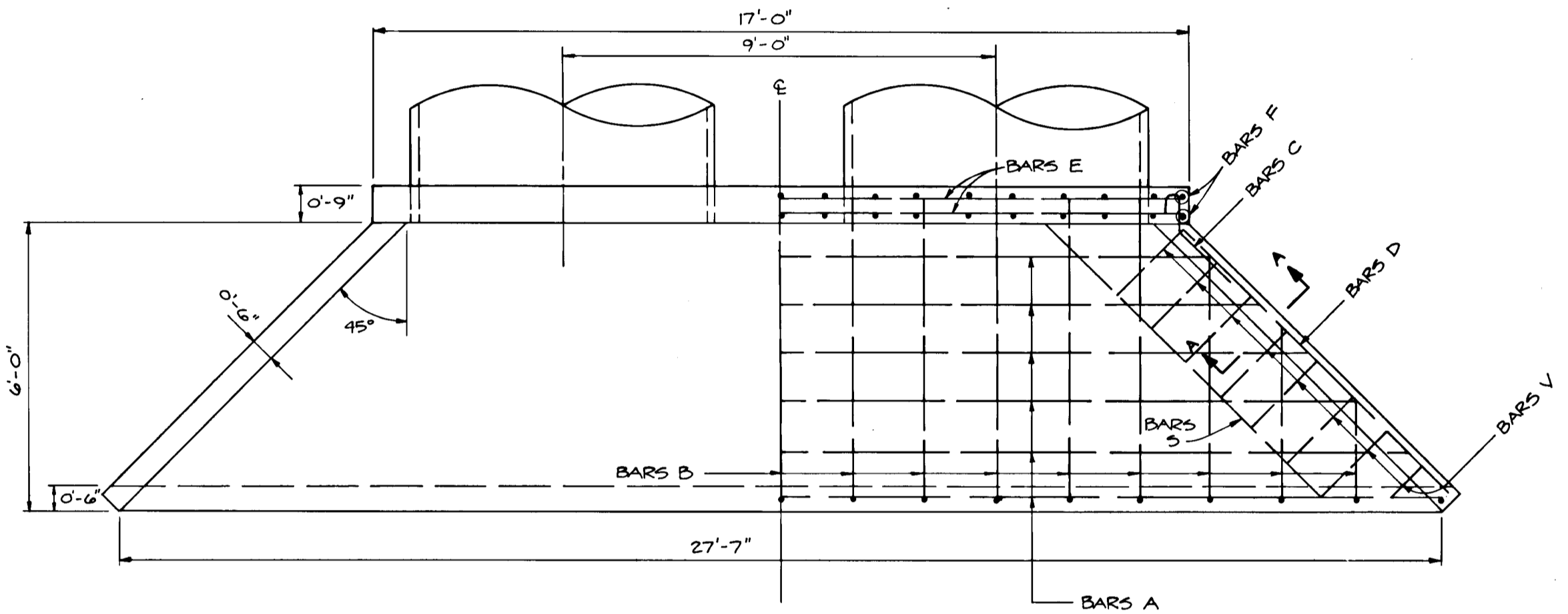
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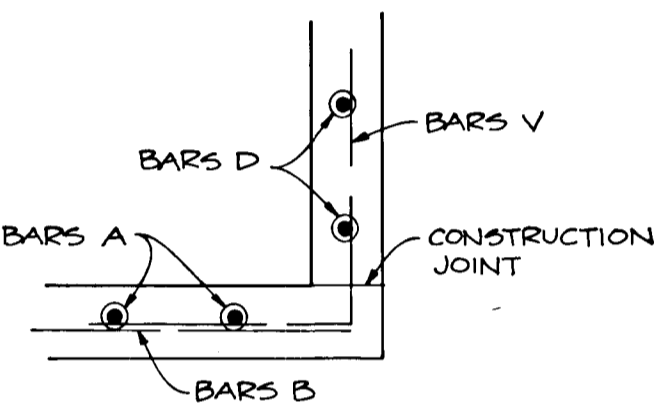
ELEVATION
SCALE: 3/8" = 1'-0"



WING WALL ELEVATION
SCALE: 3/8" = 1'-0"

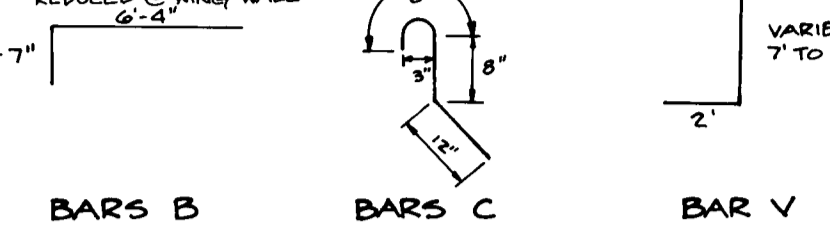


PLAN
SCALE: 3/8" = 1'-0"



SECTION A-A
NOT TO SCALE

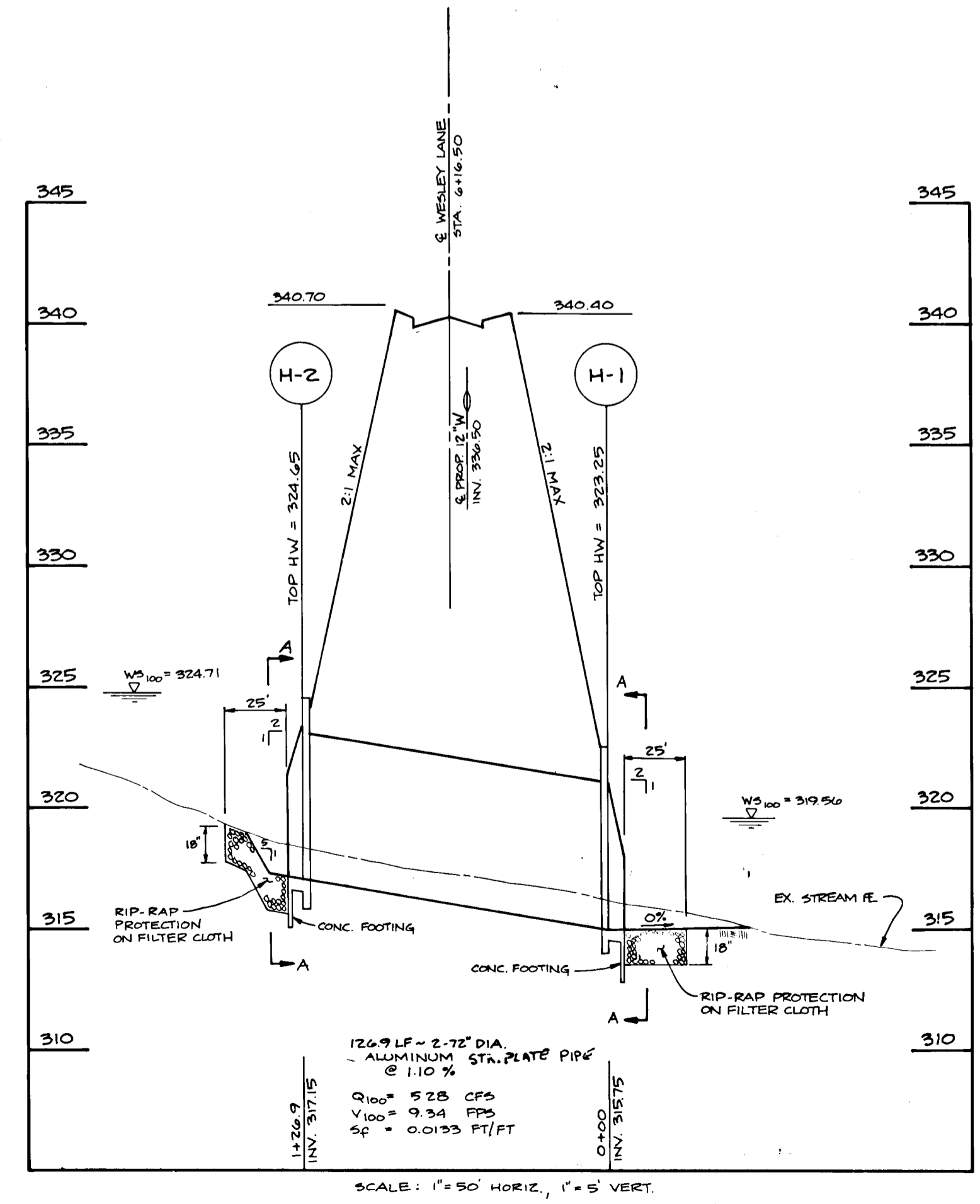
BAR	SIZE	SPACING	NO	LENGTH
A	# 4	12" O.C.	6	16'-6" TO 27'-1"
B	# 3	18" O.C.	17	7'-11" #
C	# 4	12" O.C.	14	2'-4"
D	# 3	12" O.C.	12	8'-0" REDUCED @ WALL SLOPE
E	# 5	12" O.C.	18	16'-8" REDUCED @ PIPE CORNERS
F	# 5	12" O.C.	38	8'-0" REDUCED @ PIPE CORNERS
G	# 3	12" O.C.	2	27'-1"
S	# 4	AS SHOWN	2	8'-0" ±
V	# 4	12" O.C.	16	
W	# 5	AS SHOWN	2	8'-0" ±



- NOTE:
1. ALL CONCRETE SHALL BE MIX NO. 3.
 2. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A61 GRADE 60.
 3. ALL EXPOSED CORNERS ARE TO BE CHAMFERED 3/4".
 4. THE ALUMINUM PIPE IN CONTACT WITH CONCRETE MUST BE COATED WITH ZINC CHROMATE PRIMER.

STRUCTURE SCHEDULE						
No.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	HO. CO. STD.
I-1	A-10	15' LT. STA. 12+25 WESLEY LANE	323.56 - 15' 323.31 - 27'	323.31	329.35	SD 4.02
I-2	A-5 W/DEFLECTORS	15' RT. STA. 12+25 WESLEY LANE	---	323.95	329.35	SD 4.01 & SD 4.83
I-3	A-5 W/DEFLECTORS	15' LT. STA. 8+20 WESLEY LANE	329.27	329.07	335.11	SD 4.01 & SD 4.83
I-4	A-5 W/DEFLECTORS	15' RT. STA. 8+20 WESLEY LANE	---	329.66	335.11	SD 4.01 & SD 4.83
I-5	A-5 W/DEFLECTORS	14' RT. STA. 0+80 CAMBRIA TERR.	329.62 - 15' 329.57 - 21'	329.37	335.37	SD 4.01 & SD 4.83
I-6	A-10	14' LT. STA. 0+80 CAMBRIA TERR.	---	329.91	335.37	SD 4.02
I-7	A-5 W/DEFLECTORS	14' RT. STA. 3+20 CAMBRIA TERR.	---	334.47	340.27	SD 4.01 & SD 4.83
I-8	A-10	14' LT. STA. 3+20 CAMBRIA TERR.	---	335.50	340.27	SD 4.02
I-9	K W/GRATE (MODIFIED)	47' LT. STA. 3+48 CAMBRIA TERR.	---	343.00	349.00	SD 4.12 & 4.13
M-1	MANHOLE	30+27 LT. STA. 9+85.05 WESLEY LANE	327.59 - 24" 328.90 - 18"	327.19	334.00	0 5.12
M-2	MANHOLE	14' LT. STA. 8+83.97 WESLEY LANE	---	328.20	333.62	0 5.12
M-3	MANHOLE	20' LT. STA. 2+08.78 CAMBRIA TERR.	---	332.57	338.37	0 5.12
H-1	HEADWALL	66' RT. STA. 8+20 WESLEY LANE	---	345.75	323.25	SEE DETAIL
H-2	HEADWALL	61' LT. STA. 8+05 WESLEY LANE	---	317.15	324.65	SEE DETAIL
I-10	K W/GRATE	44.77' LT. STA. 9+85.05 WESLEY LANE	---	329.00	334.00	SD 4.12 & 4.13

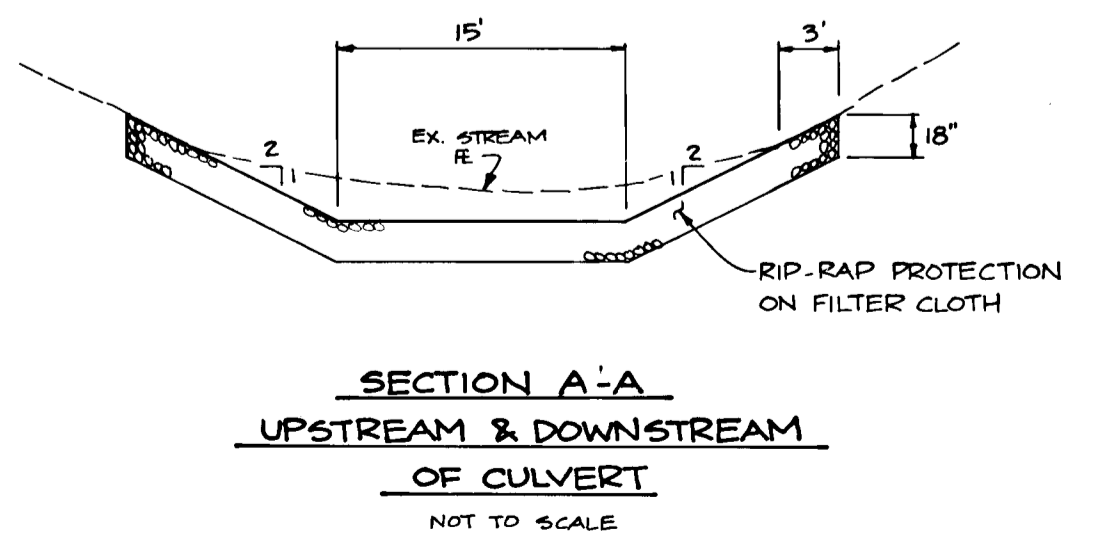
- UNLESS OTHERWISE NOTED:
1. ALL STORM DRAIN BEDDING SHALL BE CLASS C.
 2. ALL STORM DRAIN PIPE SHALL BE CLASS 4 REINFORCED CONCRETE.
 3. ALL INLETS ARE ON GRADE. TOP ELEVATION GIVEN IS AT THE E. OF INLET.



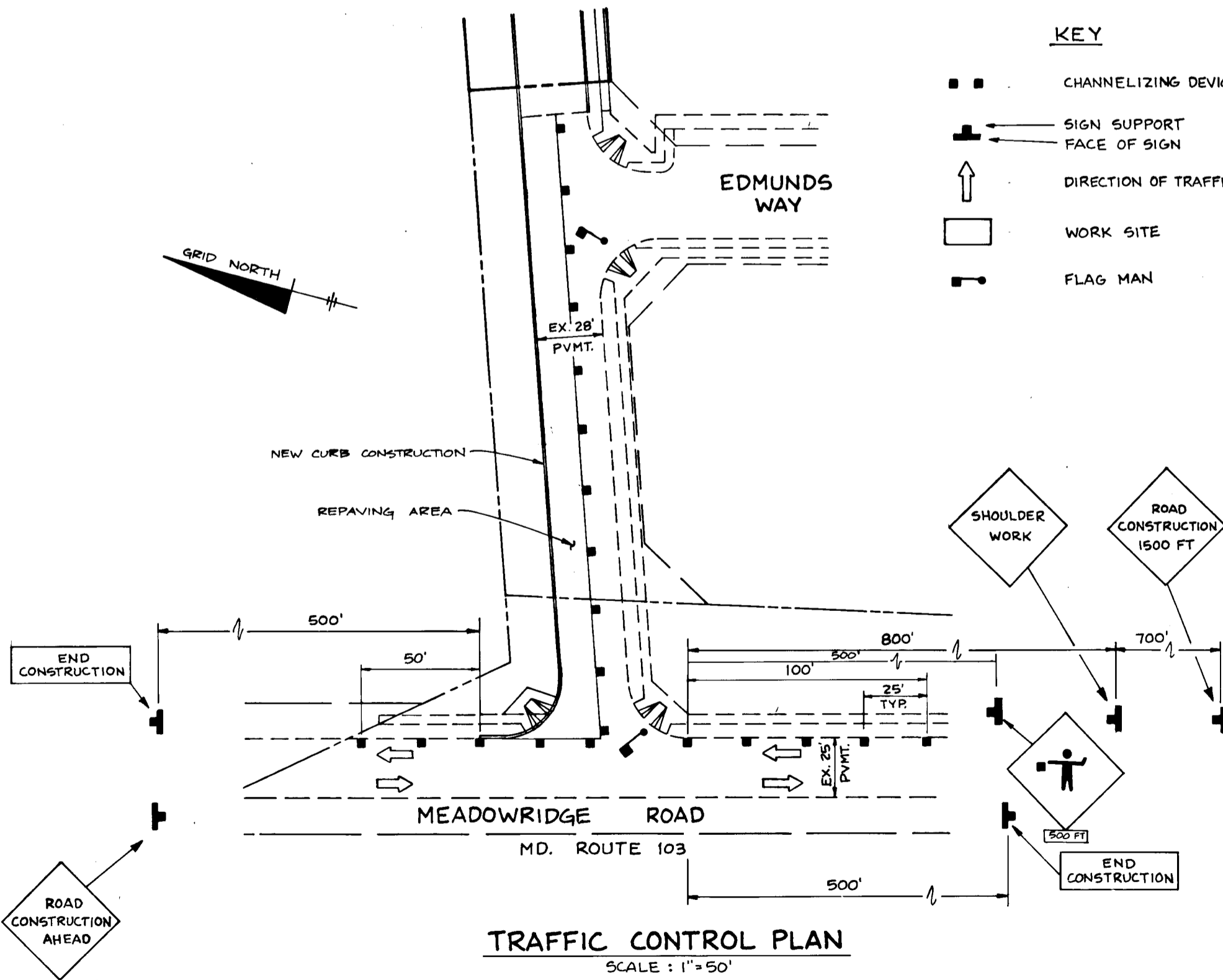
SCALE: 1" = 50' HORIZ., 1" = 5' VERT.

72" DIA. ALUMINUM STRUCTURAL PLATE PIPE
9" x 2 1/2" CORRUGATION
0.100 INCH METAL THICKNESS
DESIGNED FOR H5-20 LIVE LOAD MAX. FILL 25'
PRODUCT DISTRIBUTOR:
NORWOOD OF MARYLAND INC.
1450 GRIMM ROAD
SEVERN, MD 21144
(301) 551-8880

- STANDARD SPECIFICATIONS
1. AASHTO M219 AND ASTM B746 (CONDUIT, PIPE)
 2. ASTM B209 (MATERIAL)
 3. ASTM B789 (INSTALLATION)
 4. ASTM B790 (DESIGN)
 5. AASHTO STANDARD BRIDGE DESIGN SPECIFICATIONS, SECTION 12 (DESIGN)
- * ALTERNATIVE ALUMINUM CORRUGATED METAL PIPE MAY BE USED IF LOADING REQUIREMENTS ARE SATISFIED.



SECTION A-A
UPSTREAM & DOWNSTREAM
OF CULVERT
NOT TO SCALE



TRAFFIC CONTROL PLAN
SCALE: 1" = 50'

- NOTES:
1. CONTRACTOR TO PROVIDE TRAFFIC CONTROL DURING THE NEW CURB AND REPAVING CONSTRUCTION OF WESLEY LANE AND THE INTERSECTION IMPROVEMENTS AT MEADOWRIDGE ROAD.
 2. THE PLAN AS SHOWN IS A MINIMUM REQUIREMENT FOR TRAFFIC CONTROL. ADDITIONAL CONTROL DEVICES SHALL BE PLACED, AT THE EXPENSE OF THE CONTRACTOR, AS DIRECTED BY THE COUNTY OR STATE INSPECTORS.
 3. TWO LANES OF TRAFFIC ARE TO BE MAINTAINED ON WESLEY LANE BETWEEN 4 PM AND 9 AM.
 4. ALL TRAFFIC CONTROL SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chieftain
 CHIEF, LAND DEVELOPMENT DIVISION
 APPROVED: *Andrew M. Janelko*
 CHIEF, BUREAU OF HIGHWAYS
 APPROVED: *Paul D. Seaton*
 CHIEF, BUREAU OF ENGINEERING

9/9/93
DATE
9-8-93
DATE
9/2/93
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Gina Trunnicci
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

9/22/93
DATE

NO	DATE	REVISION
5/24/95		REVISE E-1 (ENDWALL) TO I-10 (TYPE K GRATE INLET)

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 485-6105

OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP
 9030 RED BRANCH ROAD SUITE 250
 COLUMBIA, MARYLAND 21045
 (410) 740-9323

PROJECT: BRIGHTFIELD SECTION 4
 LOTS 50-94 AND PARCEL B

LOCATION: TAX MAP 37 - PARCELS 77 & 80
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: STORM DRAIN PROFILE AND DETAILS
 5-89-22 P-91-11 F-89-20

DATE: MAY 15, 1992
 JUNE 15, 1993

PROJECT NO. 0340

SCALE: AS SHOWN

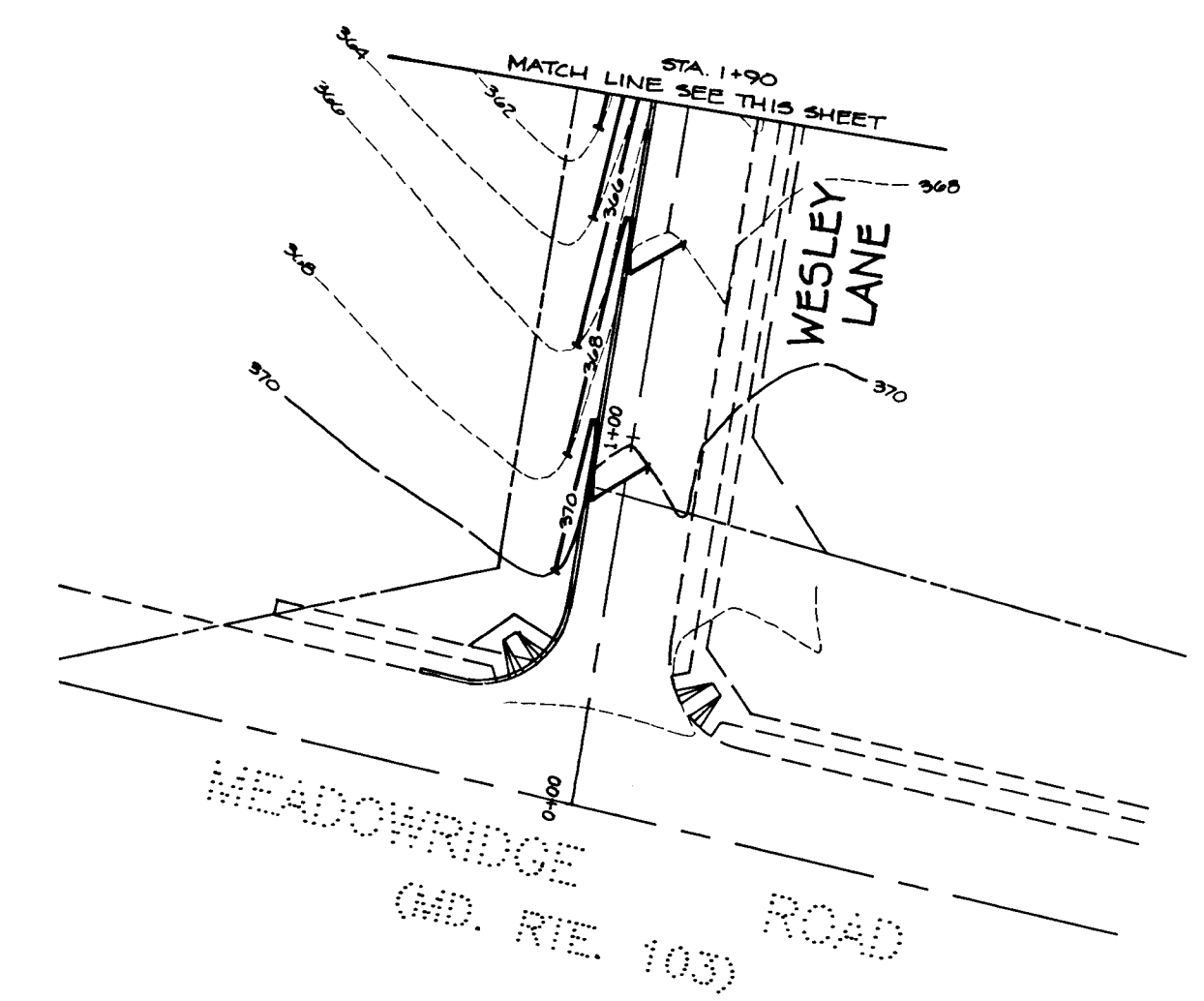
DRAWING 4 OF 8

DES: JME DRN: DBT

1382



MARYLAND STATE
ROADS COMMISSION
PARCEL 517



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT 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.
 THE CORGAN/ADLER L.P. GENERAL PARTNER
 BY: THE ADLER CORPORATION
David B. Adler, PRESIDENT 5/15/92
 100 INVESTMENT LIMITED PARTNERSHIP DATE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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 HEREBY CERTIFY THAT THE DEVELOPER SHALL PROMOTE THE HOWARD SOIL CONSERVATION DISTRICT WITHIN 30 DAYS OF COMPLETION OF THE PLAN.
John M. Elorriaga 5/15/92
 ENGINEER: JOHN M. ELORRIAGA, P.E. # 16891 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
John M. Elorriaga 7/13/93
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Peltason 7/13/93
 HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chris Dammons 9/9/93
 CHIEF, DEVELOPMENT DIVISION DATE
Andrew M. Duncker 9-8-93
 CHIEF, BUREAU OF HIGHWAYS DATE
Paul D. Eason 9/9/93
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Carla Swannery 9/22/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

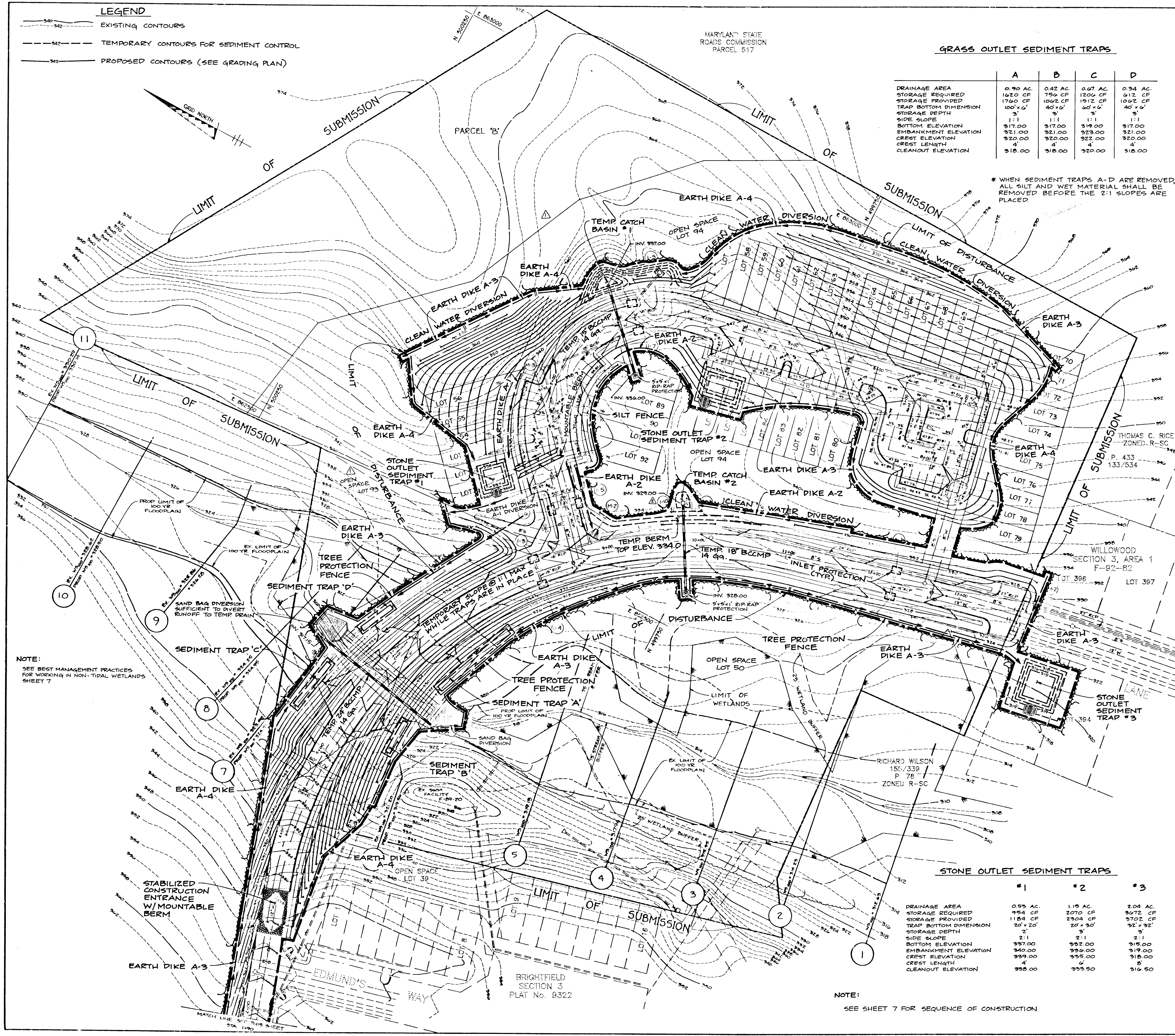
3/9/94	REVISE SIDEWALK TO 4' W/5' PAD EVERY 200'; REVISE GS DBA NOISE LINE DELETE PAVIMENT AND NOISE HEARD NOTE.	
5/11/95	REVISE PAR. D, D, D, LOTS 75, 76, 77 AND LANDSCAPED BUFFER; REVISE STORM DRAINAGE COMPS.	
	REVISE E4 (ENDWALL) TO H10 (TYPE K GORME INLET)	
NO	DATE	REVISION

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OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP 9030 RED BRANCH ROAD SUITE 250 COLUMBIA, MARYLAND 21045 (410) 740-3323	PROJECT: BRIGHTFIELD SECTION 4 LOTS 50-94 AND PARCEL B
LOCATION: TAX MAP 37 - PARCEL 77 & 80 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: GRADING PLAN 5-89-22 P-91-11 F-89-20
DATE: MAY 15, 1992 JUNE 15, 1993	PROJECT NO. 0240
DES: JME	DRN: DRK/OBT
SCALE: 1" = 50'	DRAWING 5 OF 8

NOTE:
SEE BEST MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS SHEET 7.

1382



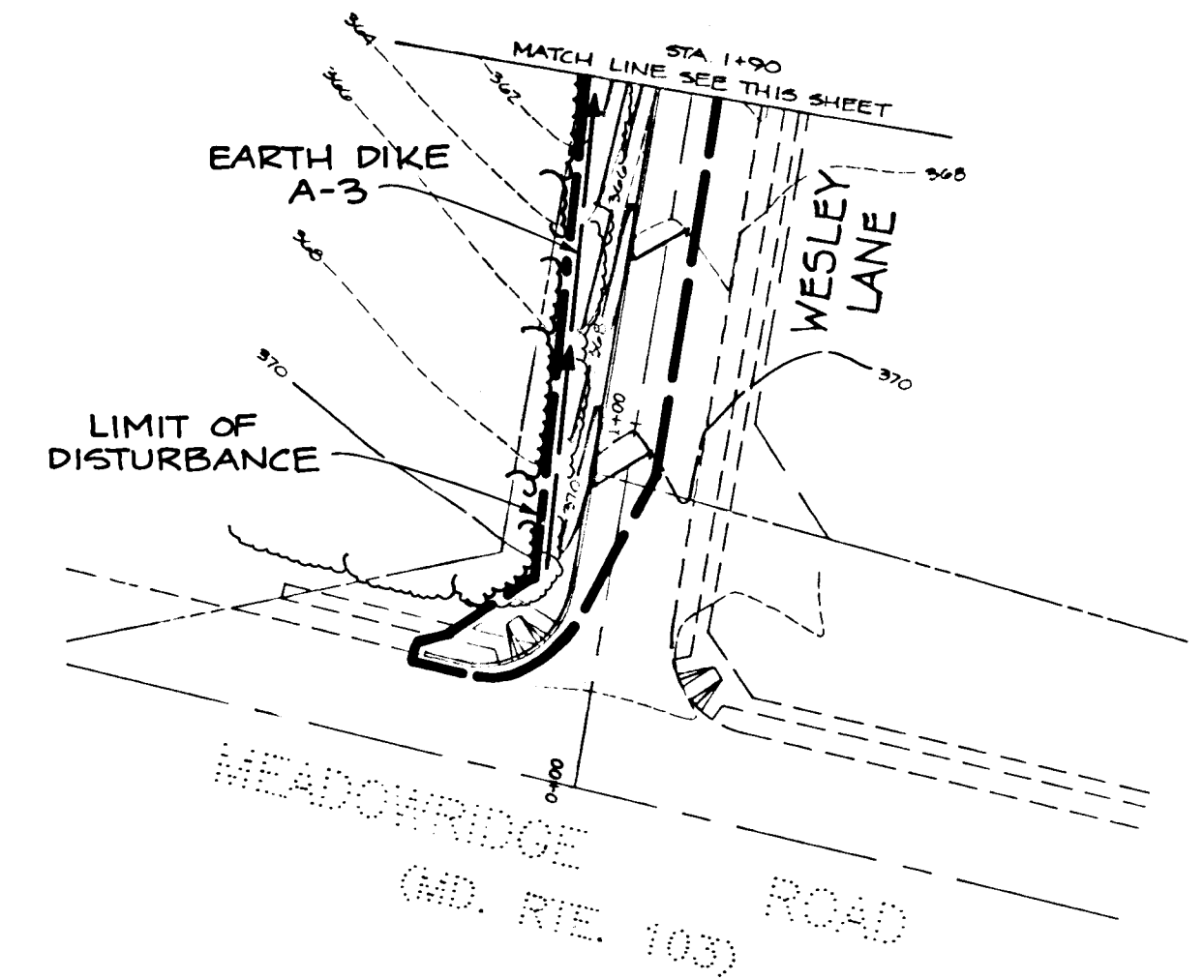
LEGEND
 --- 340 --- 342 --- EXISTING CONTOURS
 --- 342 --- TEMPORARY CONTOURS FOR SEDIMENT CONTROL
 --- 342 --- PROPOSED CONTOURS (SEE GRADING PLAN)

MARYLAND STATE
 ROADS COMMISSION
 PARCEL 517

GRASS OUTLET SEDIMENT TRAPS

	A	B	C	D
DRAINAGE AREA	0.90 AC	0.42 AC	0.67 AC	0.34 AC
STORAGE REQUIRED	1620 CF	756 CF	1206 CF	612 CF
STORAGE PROVIDED	1760 CF	1062 CF	1512 CF	1062 CF
TRAP BOTTOM DIMENSION	100' x 4'	60' x 4'	60' x 4'	40' x 4'
STORAGE DEPTH	3'	3'	3'	3'
SIDE SLOPE	1:1	1:1	1:1	1:1
BOTTOM ELEVATION	317.00	317.00	319.00	317.00
EMBANKMENT ELEVATION	321.00	321.00	323.00	321.00
CREST ELEVATION	320.00	320.00	322.00	320.00
CREST LENGTH	4'	4'	4'	4'
CLEANOUT ELEVATION	318.00	318.00	320.00	318.00

* WHEN SEDIMENT TRAPS A-D ARE REMOVED, ALL SILT AND WET MATERIAL SHALL BE REMOVED BEFORE THE 2:1 SLOPES ARE PLACED.



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT 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.
 THE CORP./PARTNER/ L.P. GENERAL PARTNER
 BY: THE ADJER CORPORATION
 David B. Allen, PRESIDENT, 5/15/92 DATE
 100 INVESTMENT LIMITED PARTNERSHIP

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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.
 JOHN M. ELORRAGA, P.E. # 1F891, 5/15/92 DATE
 ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 JAMES M. VETTER, 7/18/93 DATE
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 JOHN L. KUBITZ, 7/13/93 DATE
 U.S. SOIL CONSERVATION SERVICE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 ALAN DAMAN, 9/9/93 DATE
 CHIEF, LAND DEPARTMENT DIVISION
 CHRISTOPHER M. DONOHUE, 9-8-93 DATE
 CHIEF, BUREAU OF HIGHWAYS
 PHILIP J. GOSMAN, 9/2/93 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 GINA SUMMANJIC, 7/22/93 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO	DATE	REVISION
1	3/4/94	REVISE SHEET 10 TO 4' WIDE PAD EVERY 2ND REVISE 0.5 GRA NOTE LINE, DELETE HYDRAULIC WISE HAZARD NOTE, REVISE PAR 8.0.5 LOTS 93 & 94 AND LANDSCAPED BUFFER, REVISE STORM DRAINAGE CHMP.
2	5/24/95	REVISE E-1 TO 1-10

STONE OUTLET SEDIMENT TRAPS

	#1	#2	#3
DRAINAGE AREA	0.85 AC	1.15 AC	2.04 AC
STORAGE REQUIRED	954 CF	2070 CF	3672 CF
STORAGE PROVIDED	1184 CF	2304 CF	3702 CF
TRAP BOTTOM DIMENSION	20' x 20'	20' x 30'	32' x 32'
STORAGE DEPTH	2'	2'	2'
SIDE SLOPE	2:1	2:1	2:1
BOTTOM ELEVATION	337.00	332.00	315.00
EMBANKMENT ELEVATION	340.00	336.00	319.00
CREST ELEVATION	339.00	335.00	318.00
CREST LENGTH	4'	6'	8'
CLEANOUT ELEVATION	335.00	333.50	316.50

NOTE:
 SEE SHEET 7 FOR SEQUENCE OF CONSTRUCTION

NOTE:
 SEE BEST MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS SHEET 7

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OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP 9030 RED BRANCH ROAD SUITE 250 COLUMBIA, MARYLAND 21045 (410) 740-3323	PROJECT: BRIGHTFIELD SECTION 4 LOTS 50-94 AND PARCEL B LOCATION: TAX MAP 37 - PARCEL 77 & 80 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE: SEDIMENT AND EROSION CONTROL PLAN 5-07-92 P-9-11 F-09-20 DATE: MAY 15, 1992 JUNE 15, 1993 PROJECT NO. 0540 SCALE: 1" = 50' DRAWING 6 OF 8
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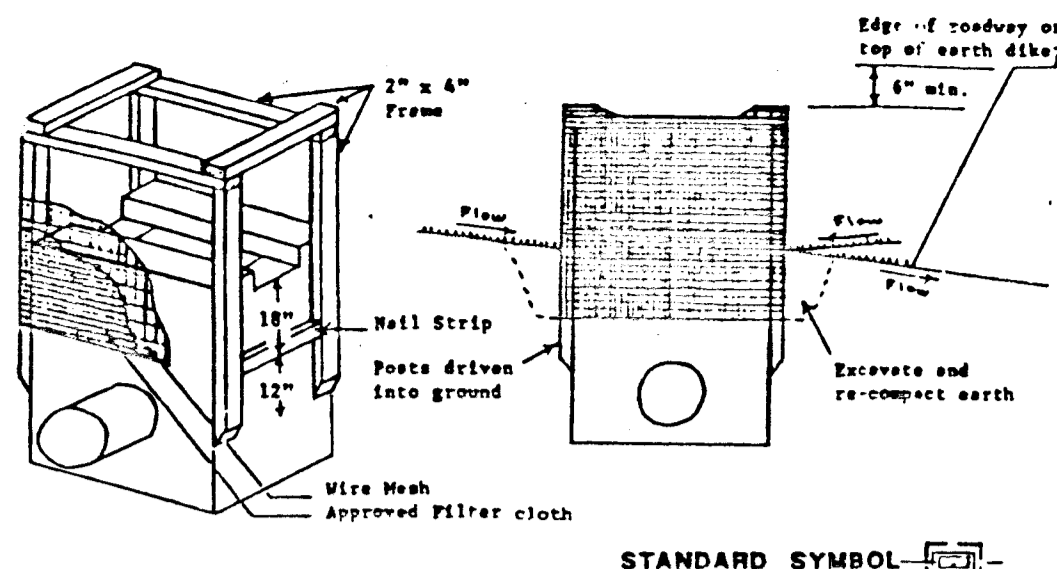
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SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
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 AND REVISIONS THEREOF.
3. 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 AND ALL SLOPES GREATER THAN 3:1, B) 14 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 SEEDINGS (SEC. 51) SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 58) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING TYPES 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
TOTAL AREA OF SITE 16.37 ACRES
AREA DISTURBED 5.60 ACRES
AREA TO BE ROOFED OR PAVED 3.10 ACRES
AREA TO BE VEGETATIVELY STABILIZED 25.00 ACRES
TOTAL CUT (EXC. OF TOPSOIL) 32,000 CU YDS
TOTAL FILL 32,000 CU YDS
OFFSITE WASTE/BORROW AREA LOCATION TO BE DETERMINED
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 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.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

BEST MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS

- 1) No access fill, construction material or debris are to be stockpiled or stored in the wetlands or buffer.
2) Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of the nontidal wetland.
3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material or any other deleterious substance. If additional backfill is required, use Clean material free of waste metal products, unsightly debris, toxic material or any other deleterious substance.
4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to the nontidal wetlands or buffer.
5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands in excess of nontidal wetlands lost under the original structure or fill.
6) Rectify any nontidal wetlands temporarily impacted by any proposed repair and maintenance activity as per the approved specification plan.
7) All stabilization in the wetland and buffer shall be of the following recommended species: Annual Ryegrass (Lolium multiflorum), Winter (Setaria fabiana), Sorghum (Sorghum sp.), Oats (Avena sp.), and/or Rye (Secale cereale). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Division. Kentucky 31 fence shall not be utilized in the wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
8) After installation has been completed, make post construction grades and elevations of nontidal wetlands the same as the original grades and elevations in temporarily impacted areas.
9) To protect important aquatic species, in-stream work is prohibited as determined by the classification of the stream as follows: Class I waters - in stream work may not be conducted during the period of March 1 through June 15, inclusive, during any year.

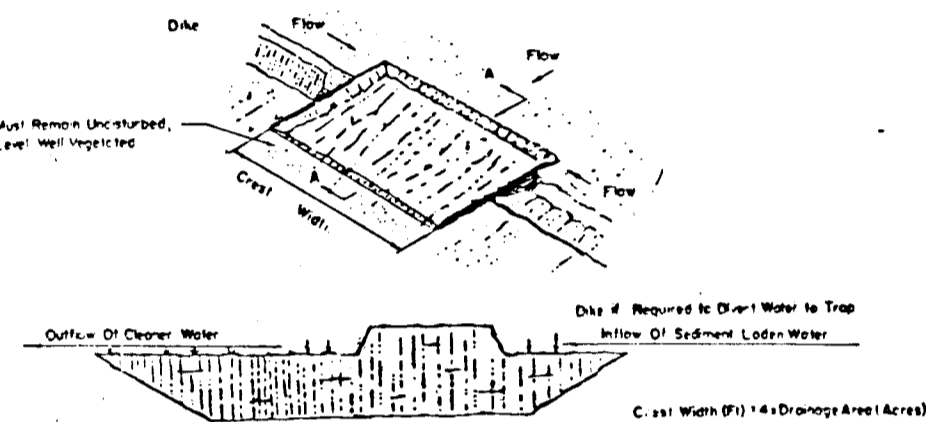


STANDARD SYMBOL

Construction Specifications

- I. Materials
A. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fall. Impounded against it.
C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, 20, 40-65, to allow sufficient passage of water and removal of sediment.
D. Stone is to be 2" in size and clean, since fines would clog the cloth.

YARD INLET PROTECTION DETAIL

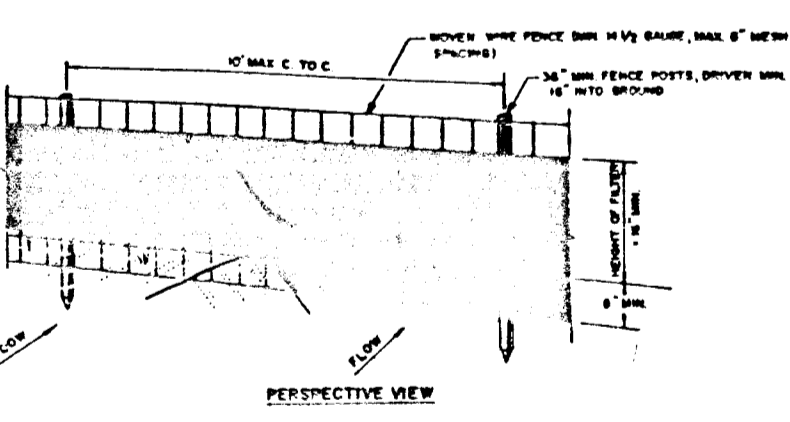


EXCAVATED GRASS OUTLET SEDIMENT TRAP

CONSTRUCTION SPECIFICATION FOR STA-11

- 1. Volume of sediment storage shall be 1000 cubic feet per acre of contributory drainage area.
2. Minimum crest width shall be 4 ft.
3. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap.
4. The structure shall be inspected after each rain and repaired made as needed.
5. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
6. The sediment trap, shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
7. All cut slopes shall be 1:1 or flatter.
Maximum Drainage Area: 5 Acres

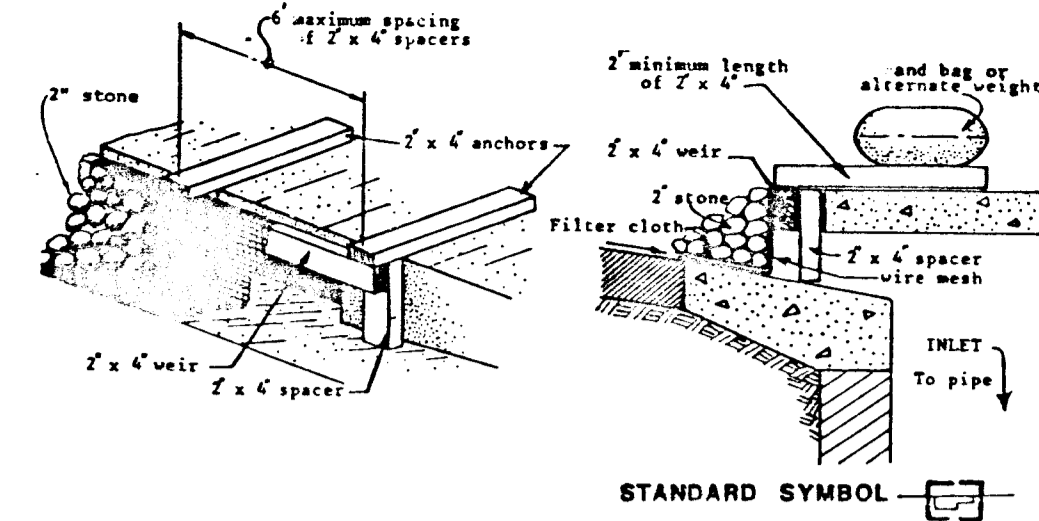
GRASS OUTLET SEDIMENT TRAP



CONSTRUCTION NOTES FOR APPLICATION SILT FENCE

- 1. When wire fence is to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to wooden frame with wire ties or staples.
3. When two sections of filter cloth are used, the overlap shall be 6" and the overlap shall be secured with staples.
4. Maintenance shall be performed as required by the manufacturer's instructions.

EARTH DIKE

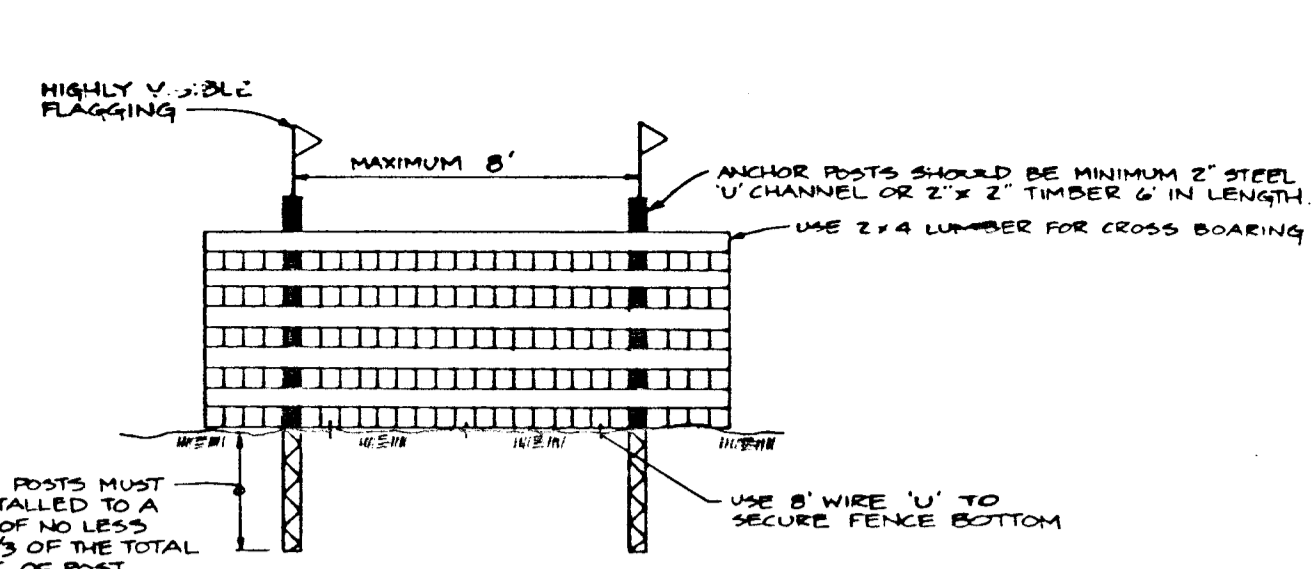


STANDARD SYMBOL

Curb Inlet Protection

- 1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" wire (measuring throat length plus 2") as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-65 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" wire.
3. Securely nail the 2" x 4" wire to 8" long vertical spacers to be located between the wire and inlet face (max. 6" spacers).
4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the wire at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sashbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CURB INLET PROTECTION DETAIL



TREE PROTECTION FENCE

- 1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLATION.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT 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.

THE COSCAN/ADLER L.P., GENERAL PARTNER BY: THE ADLER CORPORATION David B. Adler PRESIDENT 5/15/92 DATE 100 INVESTMENT LIMITED PARTNERSHIP

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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. DEVELOPER THAT HE HAS APPROVED THE HOWARD SOIL CONSERVATION DISTRICT'S PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. Jan 7/13/93

John M. Elorriaga ENGINEER: JOHN M. ELORRIAGA, P.E. # 16891 5/15/92 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL. Jan 7/13/93

John W. Hatcher U.S. SOIL CONSERVATION SERVICE 7/13/93 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. John P. Roberts HOWARD S.C.D. 7/13/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, LAND DEVELOPMENT DIVISION 9/9/93 DATE
Chief, BUREAU OF HIGHWAYS 9-8-93 DATE
Chief, BUREAU OF ENGINEERING 9/5/93 DATE

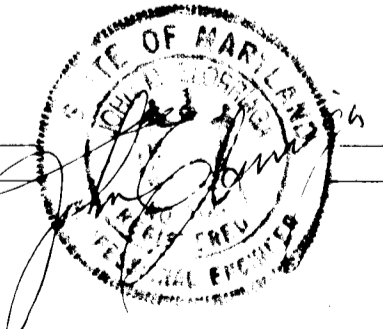
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 9/20/93 DATE

NO DATE REVISION

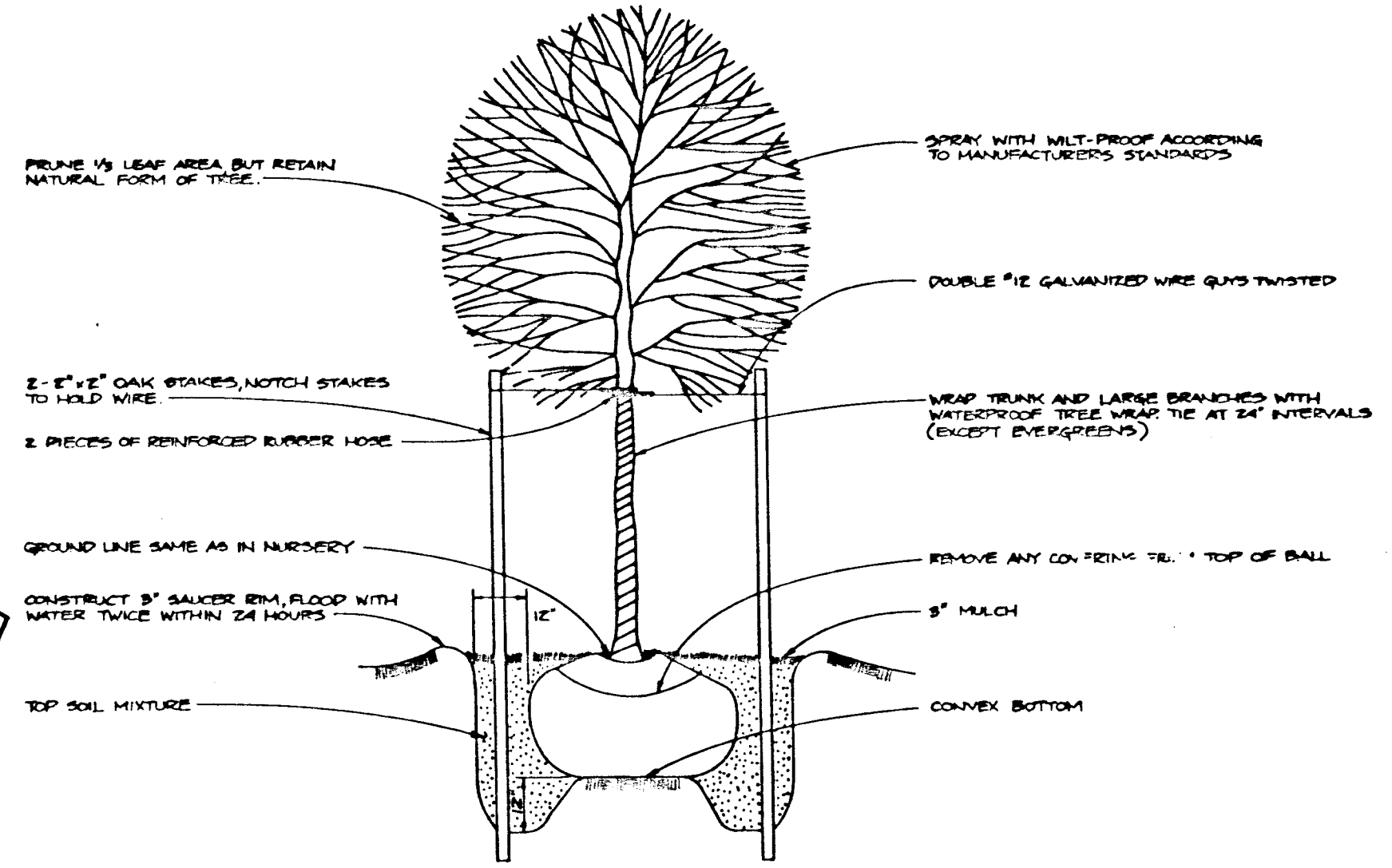
TSA GROUP, INC.

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8400 Baltimore National Pike • Millersville City, Maryland 21045 • (410) 460-8100
OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP 9030 RED BRANCH ROAD SUITE 250 COLUMBIA, MARYLAND 21045 (410) 740-3323
PROJECT: BRIGHTFIELD SECTION 4 LOTS 50-94 AND PARCEL B
LOCATION: TAX MAP 37-PARCELS 77 & 80 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: SEDIMENT & EROSION CONTROL NOTES & DETAILS 5-89-22 P-91-11 F-89-20
DATE: MAY 15, 1992 PROJECT NO. 0340
JUNE 15, 1993
DES: JME DRN: DBT SCALE: NO SCALE DRAWING 7 OF 8

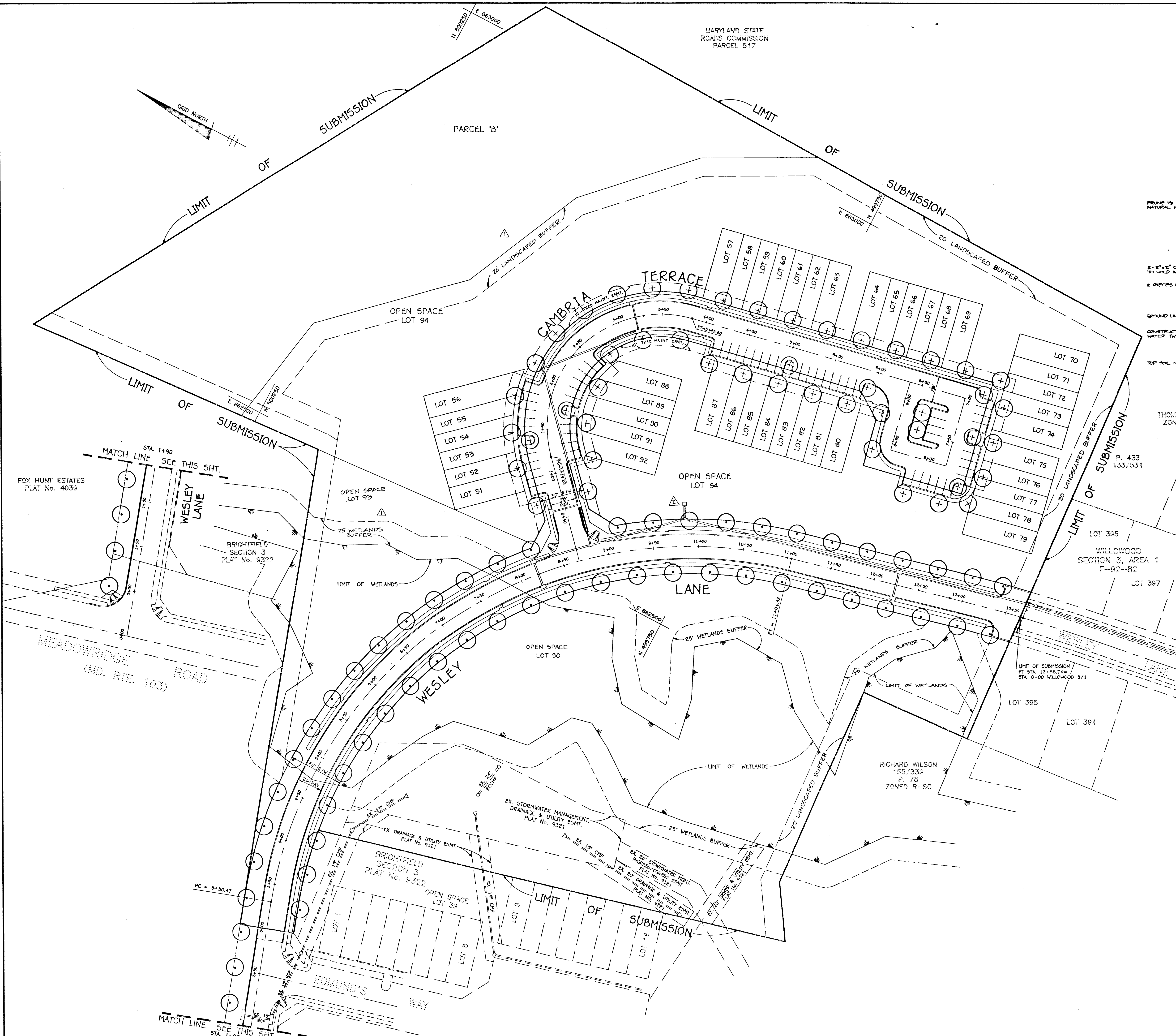


MARYLAND STATE
ROADS COMMISSION
PARCEL 517

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
○	58	QUERCUS BURZA Red Oak	2 1/2" MINIMUM CALIPER D&B FULL HEAD
+	48	ACER RUBRUM Red Maple	2 1/2" MINIMUM CALIPER D&B FULL HEAD
TOTAL 106			



TREE PLANTING DETAIL
NO SCALE



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Mark ... CHIEF, LAND DEVELOPMENT DIVISION
Richard M. ... CHIEF, BUREAU OF HIGHWAYS
Paul ... CHIEF, BUREAU OF ENGINEERING

9/6/93 DATE
 9-8-93 DATE
 9/9/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Gina Swinmory CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

9/22/93 DATE

NO	DATE	REVISION
1	5/4/94	REVISE SIDEWALK TO 8' W/WD PAPERWORK ESM; REVISE GS DBA ROSE LINE, DELETE MITIGATION (NOISE HAZARD) NOTE, REVISE P&E B, GS LOTS 99, 94 AND LANDSCAPED BUFFER, REVISE STORM DRAINAGE, GEMPS
2	5/24/95	REVISE E-1 TO 110

TSA GROUP, INC.
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OWNER/DEVELOPER: 100 INVESTMENT LIMITED PARTNERSHIP 9030 RED BRANCH ROAD SUITE 250 COLUMBIA, MARYLAND 21045 (410) 740-3323	PROJECT: BRIGHTFIELD SECTION 4 LOTS 50-94 AND PARCEL 1B
LOCATION: TAX MAP 37 - PARCELS 77 & 80 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: PLANTING PLAN 5-89-22 P-91-11 F-89-20
DES: JME	DRN: DRK/DBT
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SCALE: 1" = 50'	DRAWING 8 OF 8

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