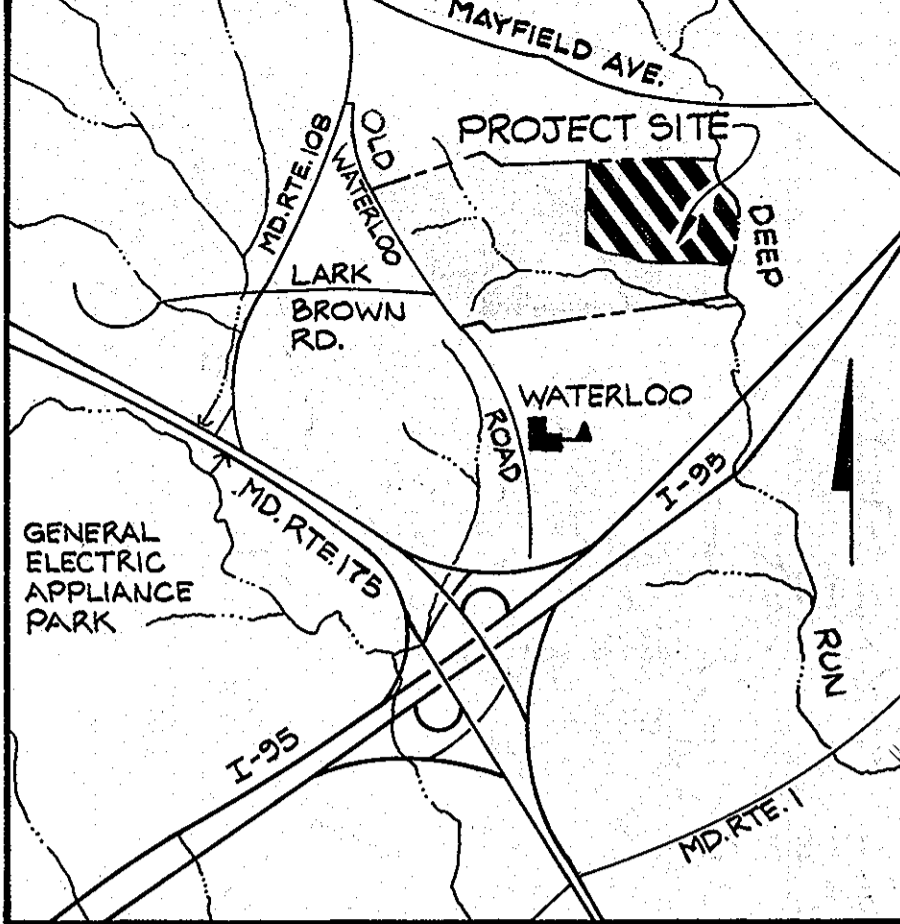
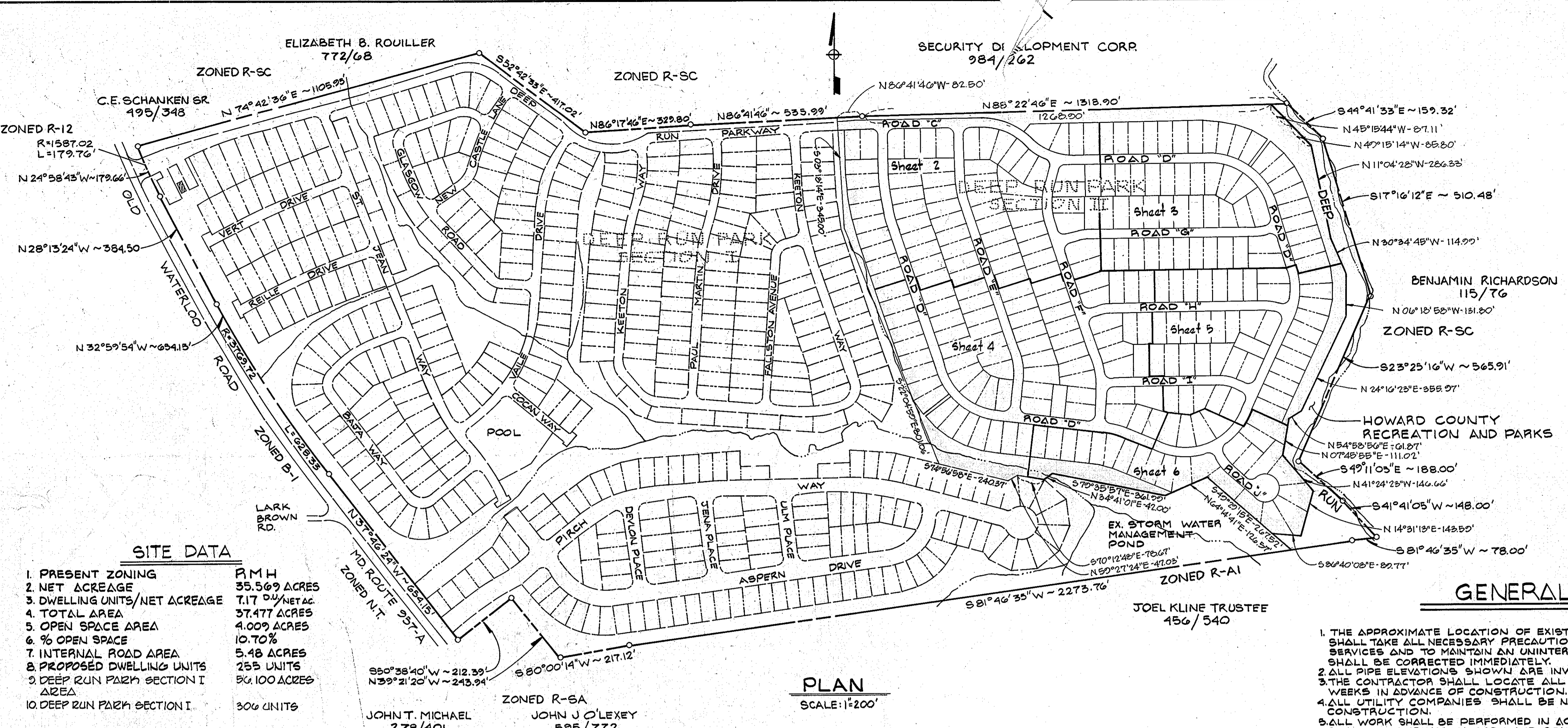


SHEET INDEX	
NO.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN (1"=50')
3.	"
4.	"
5.	"
6.	PLAN & LOT AREA SCHEDULE
7.	SITE DETAILS
8.	ROAD DETAILS
9.	ROAD PROFILES Rds. C#D
10.	" " Rds. D,E,#J
11.	" " Rds. F,G,H,#I
12.	DRAINAGE AREA MAP
13.	STORM DRAIN & SWALE PROFILES
14.	"
15.	"
16.	WATER AND SEWER DETAILS
17.	WATER AND SEWER PROFILES
18.	"
19.	"
20.	SEDIMENT CONTROL OVERALL PLAN
21.	SEDIMENT CONTROL NOTES & DETAILS
22.	SEDIMENT CONTROL PLAN 50 Scale
23.	"
24.	LANDSCAPE DETAILS
25.	SITE DETAILS



SITE DATA	
1. PRESENT ZONING	RMH
2. NET ACREAGE	35.569 ACRES
3. DWELLING UNITS/NET ACREAGE	7.17 DU/NET AC.
4. TOTAL AREA	37.477 ACRES
5. OPEN SPACE AREA	4.009 ACRES
6. % OPEN SPACE	10.70%
7. INTERNAL ROAD AREA	5.48 ACRES
8. PROPOSED DWELLING UNITS	255 UNITS
9. DEEP RUN PARK SECTION I AREA	36.100 ACRES
10. DEEP RUN PARK SECTION I	306 UNITS

NOTE: For continuation of Site Data see sheets 6 & 7.

- GENERAL NOTES**
1. THE APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING MAINS AND SERVICES AND TO MAINTAIN AN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE CORRECTED IMMEDIATELY.
 2. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 3. THE CONTRACTOR SHALL LOCATE ALL THE EXISTING UTILITIES A MINIMUM OF TWO FEET IN ADVANCE OF CONSTRUCTION.
 4. ALL UTILITY COMPANIES SHALL BE NOTIFIED 5 DAYS IN ADVANCE OF CONSTRUCTION.
 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 6. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3/2 FEET OF COVER.
 7. STORM WATER MANAGEMENT HAS BEEN PROVIDED IN THE EXISTING DRY POND FACILITY.
 8. ALL EXPOSED CONCRETE SHALL BE 3500 PSI WITH AIR ENTRAINMENT.
 9. ALL ROADWAY BOXES SHALL HAVE LOCKING COVERS.
 10. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
 11. ALL 6" AND 8" WATER MAINS SHALL BE CIP OR DIP CLASS.
 12. ALL 2" WATER LINES SHALL BE PVC.
 12. ALL WATER HOUSE CONNECTIONS SHALL BE 3/4" DIAMETER UNLESS OTHERWISE NOTED.
 13. ALL VALVES SHALL BE STRAPPED TO TEES WHERE APPLICABLE, IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
 14. BURYLINE ELEVATIONS ON THE FIRE HYDRANTS SHALL BE SET TO THE ELEVATION SHOWN ON THE PLANS.
 15. ALL SEWER MAINS SHALL BE CBPX, VCPX, ACP CLASS 2400 ON PVC SDR 35 UNLESS OTHERWISE NOTED.
 16. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
 17. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF THE EXTERIOR MANHOLE WALLS.
 18. ALL FIRE HYDRANTS SHALL BE SET 2'-0" BACK OF THE EDGE OF THE CURB WITHOUT SIDEWALKS AND 4'-0" BACK OF THE EDGE OF THE CURB WITH SIDEWALKS UNLESS OTHERWISE NOTED.
 19. ALL 6"x2" REDUCERS SHALL BE HARNESSSED.

SITE DEVELOPMENT PLAN

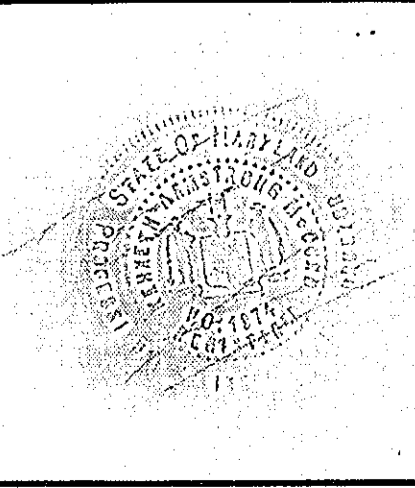
DEEP RUN PARK

SECTION II

LEGEND

STREET LIGHT	
LIMIT OF FLOOD PLAIN	
WOODS LINE	
PROPERTY LINE	
EXISTING CONTOUR	
MAIL BOX	
CHAIN LINK FENCE	
PROPOSED DITCH	
EXISTING STREAM	
TOT LOTS (LIMIT OF PLAY AREA)	
PROPOSED CONTOUR	
CONCRETE SIDEWALK	
HANDICAP RAMP	
6" PERFORATED UNDERDRAIN	
STONE TRENCH COLLECTOR	
TEST PIT	
BORING	

WHITMAN, REQUARDT AND ASSOCIATE'S ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* 1-10-83 DATE
 APPROVED: * FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* 1-7-83 DATE
 Chief, Bureau of Engineering: *[Signature]* 1-7-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Planning Director: *[Signature]* 1-13-83 DATE
 Chief, Division of Land Development and Zoning Administration: *[Signature]* 1-13-83 DATE

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 TITLE SHEET
 SHEET 1 OF 25
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED

* Public Water and Sewer Allocations will be granted in accordance with Section 18.122b of the Howard County Code.

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 10-6-82
[Signature]



Note: For offsite plan of swale from 57, see drainage area map, sheet 12

E 861.550
N 404.750

- Notes
1. For Curve Data see sheet 3.
 2. For Road Details see sheets 7 & 8.
 3. All paving 30' wide, outside curb to outside curb.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82

PLAN
Scale: 1" = 30'

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, Jr. M.D. P.H. COUNTY HEALTH OFFICER 3/83 1-10-83 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James E. Neuman DIRECTOR 1-7-82 DATE
John R. Quinn CHIEF, BUREAU OF ENGINEERING 1-7-83 DATE

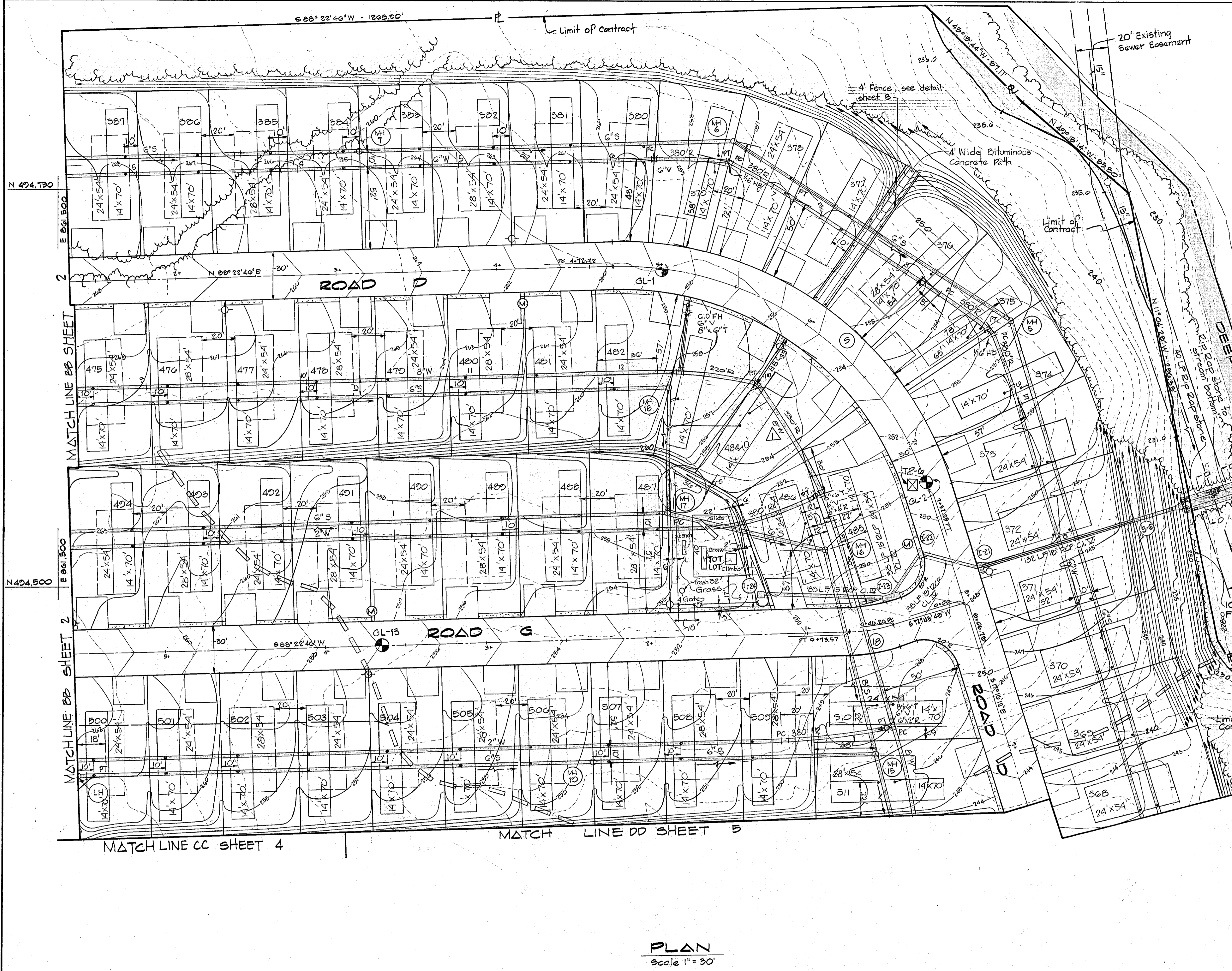
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Hamph. PLANNING DIRECTOR 1-13-83 DATE
William M. Murchman CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

No.	Revisions	Date
1	Changed 2" Water	3/21/83

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
SITE PLAN
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL B
DATE: 4/28/82
SCALE: AS NOTED

SHEET
2
OF
25



No.	PC	PT	Radius	Arc	Δ	Tan	Chord	Chd. Bearing
1	24+02.11	24+37.37	1200.00	35.26'	01°41'01"	17.63'	35.26'	N87°32'16"E
2	21+03.22	20+43.70	200.00'	100.48'	45°58'22"	84.84'	156.21'	S68°38'03"E
3	20+43.70	30+43.17	200.00'	105.48'	30°12'55"	54.00'	104.20'	S60°45'21"E
4	0+00.00	0+55.00	200.00'	55.00'	15°25'23"	27.68'	54.83'	S88°44'32"E
12	20+60.24	31+84.51	735.00'	224.27'	17°28'59"	113.02'	223.41'	N10°21'43"W
13	1+26.70	2+70.57	501.00'	152.87'	17°28'59"	77.04'	152.28'	S10°21'43"E
15	0+23.56	2+02.58	200.00'	116.03'	33°14'21"	59.70'	114.41'	S02°29'02"E
17	5+29.53	6+30.04	100.00'	20.51'	17°28'59"	15.38'	30.40'	S70°35'17"W
5	4+72.72	7+32.25	200.00'	259.53'	74°21'02"	151.67'	241.70'	S54°26'43"E
18	0+46.26	0+13.57	100.00'	27.31'	15°30'55"	13.74'	27.23'	S88°33'17"W
10	18+72.08	19+27.16	200.00'	55.08'	15°44'46"	27.72'	54.91'	N76°17'10"W
11	22+74.45	23+01.60	200.00'	227.15'	65°04'21"	127.50'	218.13'	N51°38'23"W
14	7+46.19	8+43.20	200.00'	87.01'	24°55'39"	44.21'	86.83'	S08°38'25"E
16	6+66.89	7+41.61	250.00'	80.72'	13°12'40"	40.54'	80.54'	S10°20'48"E
17	7+41.61	8+13.16	250.00'	71.56'	11°42'48"	35.90'	71.48'	S00°01'58"E
21	5+29.53	5+71.02	100.00'	30.51'	17°28'59"	15.38'	30.40'	S70°35'17"W
23	4+14.38	4+29.28	200.00'	14.90'	04°16'09"	7.46'	14.90'	S88°14'42"W

- Notes:
- 1) For road details see sheets 7 & 8.
 - 2) All paving 30' wide, outside curb to outside curb.

Offsite Improvements
 ≈ 58 LF Rip Rap Stone

Howard County
 Recreation and Parks Plots 4040 & 4050

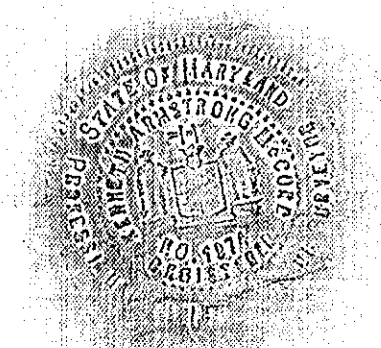
120' Existing
 Sewer Easement
 Liber 608 Folio 44

100 Year
 Flood Plain

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-6-82

PLAN
 Scale 1" = 30'

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord
 KENNETH A. MCCORD P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer
 DATE 1-10-83
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND
 STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director
 DATE 1-7-83
 Chief Bureau of Engineering
 DATE 1-7-83

APPROVED: HOWARD COUNTY OFFICE OF
 PLANNING AND ZONING
 Planning Director
 DATE 1-13-83
 Chief, Division of Land Development
 and Zoning Administration
 DATE 1-13-83

No.	Revisions	Date
1	Changed 8' Water	3/21/83

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 SITE PLAN
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37 PARCEL 163
 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED

SHEET
 3
 OF
 25

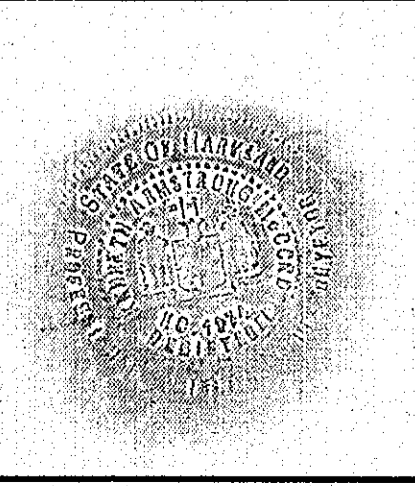


No	Revisions	Date
1	Called out Ex. G's	3/21/83
2	Add Concrete Encasement notes	3/30/83

PLAN
Scale: 1" = 30'

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-6-82

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. McCORD P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, M.D., D.P.H. 1-10-83
COUNTY HEALTH OFFICER DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. N. Jones 1-13-83
DIRECTOR DATE
CHIEF BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Harris 1-13-83
PLANNING DIRECTOR DATE
William M. ... 1-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
PARCEL B
DATE: 4/23/82

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
SITE PLAN
SCALE: AS NOTED

SHEET
4
OF
25



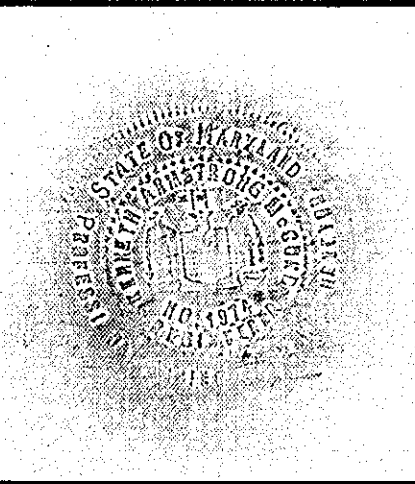
CURVE DATA								
No.	PC	PT	Radius	Δrc	Δ	Tan	Chord	Chd Bearing
6	0+25.67	10+27.71	20000	131.20°	27°49'15"	68.48'	120.58'	S 01°27'55" W
7	10+27.71	10+27.71	20000	10.08°	02°52'15"	5.04'	10.08'	S 21°58'30" W
20	0+40.24	0+70.91	100.00	38.67°	27°09'15"	15.56'	38.43'	N 80°32'30" W
22	0+69.91	1+13.61	100.00	43.71°	28°02'30"	22.21'	43.36'	N 70°05'30" W

- Notes:**
- For road details see sheets 7 and 8.
 - All roads 30' wide outside curb to outside curb.
 - For Δ Inlet Detail see sheet 2, and for Howard County standard Detail 9D-4.01 see sheet 15 these plans.
 - For MH-1 detail see Howard County Standard Detail G 5.01 sheet 15.
 - For 'D' Inlet detail see Howard County Standard Detail 9D 4.11 sheet 15.
 - For Precast Structure Detail see sheet 14 these plans.
 - Δ-5 curb inlets are 2.5' wide, inside width, and are offset 16.17' Road E to inlet E. Δ-10 curb inlets are 3.5' wide, inside width, and are offset 16.67' Road E to inlet E.

STORM DRAIN STRUCTURE SCHEDULE						
Struc.	Type	Location	Top El.	Inv. In	Inv. Out	Remarks
I-1	Δ-10	22+48.46 Rd. D Lt.	237.93	230.80	229.40	
I-2	Δ-10	22+58.05 Rd. D Rt.	238.20	231.41	231.10	
I-3	Δ-10	09+16.26 Rd. E Rt.	237.50	233.24	232.25	W/deflectors
I-4	D	08+30.44 Rd. E Rt.	232.83	---	230.75	25' offset
I-5	Δ-10	09+16.26 Rd. E Lt.	237.50	---	232.83	W/deflectors
I-6	Δ-5	19+15.37 Rd. D Lt.	229.57	223.42	222.20	
I-7	Δ-10	10+13.50 Rd. D Rt.	229.58	224.18	223.75	
I-8	Δ-10	6+38.00 Rd. F Rt.	230.42	223.57	224.80	W/deflectors
I-9	D	See Plan	236.83	---	231.75	
I-10	Δ-5	15+20.50 Rd. D Rt.	230.12	---	225.90	
I-11	Δ-5	7+06.71 Rd. F Lt.	236.17	230.30	229.99	W/deflectors
I-12	Δ-5	4+45.25 Rd. I Rt.	234.20	---	230.60	W/deflectors
I-13	Δ-5	See Plan	226.97	---	221.50	
I-14	Δ-5	13+23.31 Rd. D Lt.	237.27	231.07	230.20	W/deflectors
I-15	Δ-10	13+23.28 Rd. D Rt.	237.34	231.78	231.40	
I-16	D	See Plan	237.50	---	233.42	25' offset
I-17	Δ-5	0+39.17 Rd. I Rt.	237.10	---	232.00	W/deflectors
I-18	Δ-10	10+38.75 Rd. D Rt.	241.18	236.43	236.00	
I-19	D	See Plan	243.00	---	238.92	25' offset
I-20	Δ-5	0+41.60 Rd. H Rt.	241.02	---	238.77	W/deflectors
I-21	Δ-5	7+88.67 Rd. D Lt.	240.09	242.04	239.20	W/deflectors
I-22	Δ-5	7+68.62 Rd. D Rt.	240.79	249.34	242.80	W/deflectors
I-23	Δ-10	0+40.07 Rd. G Rt.	248.83	244.24	244.00	W/deflectors
I-24	D	See Plan	250.00	---	245.00	25' offset
I-25	Δ-10	0+85.92 Rd. D Lt.	230.42	---	228.20	
MH1	standard	See Plan	234.30	232.18	229.00	
S-1	24" Precast	See Plan	---	223.60	---	
S-2	24" Precast	See Plan	---	218.60	---	
S-3	15" Precast	See Plan	---	213.50	---	
S-4	18" Precast	See Plan	---	217.20	---	
S-5	18" Precast	See Plan	---	224.94	---	
S-6	18" Precast	See Plan	---	228.00	---	
S-7	15" Precast	See Plan	---	263.66	---	

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-6-82

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 Joyce M. Boyd, M.D. Dr. P.H.
 COUNTY HEALTH OFFICER 1-10-83 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Gene F. Nemy
 DIRECTOR 1-7-83 DATE
 Chief, Bureau of Engineering 1-7-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Thomas J. Harris, Jr.
 PLANNING DIRECTOR 1-13-83 DATE

William M. Whelan
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

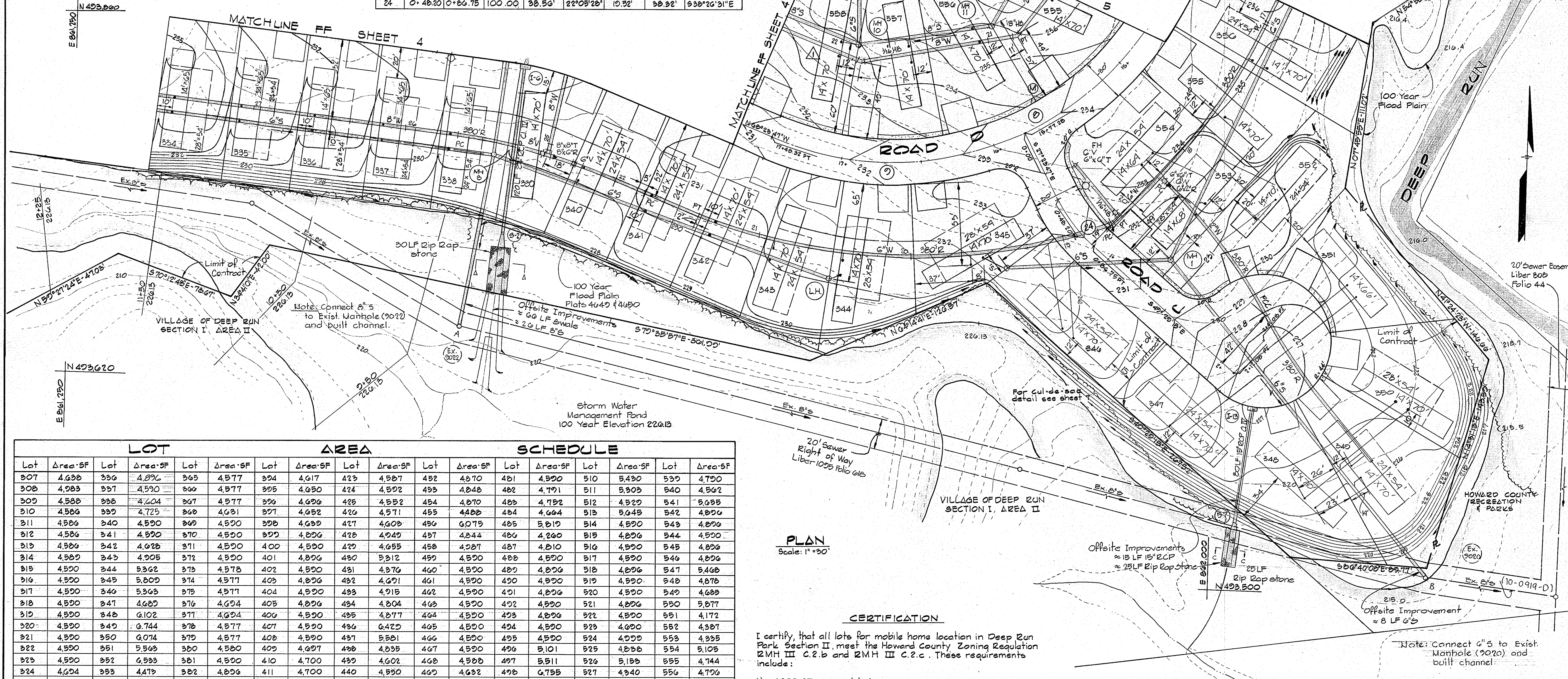
No.	Revisions	Date
1	Changed SD Inverts	3/21/83

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 SITE PLAN
 SHEET 5 OF 25
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37 PARCEL 163
 DATE: 4/25/82
 SCALE: AS NOTED

- Notes:
 1) For road details see sheets 7&8.
 2) All roads 30' wide outside curb to outside curb.

CURVE DATA									
No.	PC	PT	Radius	Δc	Δ	Tan.	Chord	Chd. Bearing	
8	14+40.51	15+77.28	200.00	136.77'	37°10'31"	71.16'	134.12'	S 43°00'44"W	
9	15+77.28	17+48.32	200.00	171.04'	42°00'00"	91.15'	165.88'	S 81°06'19"W	
24	0+48.20	0+86.75	100.00	38.56'	22°05'28"	19.32'	38.32'	S 38°26'31"E	



LOT		AREA		SCHEDULE	
Lot	Area-SF	Lot	Area-SF	Lot	Area-SF
307	4,638	336	4,896	365	4,577
308	4,983	337	4,590	366	4,977
309	4,588	338	4,604	367	4,977
310	4,586	339	4,725	368	4,631
311	4,586	340	4,590	369	4,590
312	4,586	341	4,590	370	4,590
313	4,586	342	4,628	371	4,590
314	4,586	343	4,905	372	4,590
315	4,590	344	5,362	373	4,578
316	4,590	345	5,809	374	4,577
317	4,590	346	5,363	375	4,577
318	4,590	347	4,689	376	4,694
319	4,590	348	6,102	377	4,694
320	4,590	349	6,744	378	4,577
321	4,590	350	6,074	379	4,577
322	4,590	351	5,563	380	4,580
323	4,590	352	6,583	381	4,590
324	4,694	353	4,473	382	4,896
325	4,694	354	4,745	383	4,590
326	4,775	355	4,669	384	4,590
327	4,631	356	6,461	385	4,896
328	4,516	357	4,590	386	4,590
329	4,516	358	4,590	387	4,590
330	4,516	359	4,590	388	4,896
331	4,578	360	4,590	389	4,587
332	4,896	361	4,590	390	4,453
333	4,590	362	4,590	391	5,882
334	4,896	363	4,590	392	4,655
335	4,590	364	4,572	393	4,949

PLAN
Scale: 1" = 30'

CERTIFICATION

I certify, that all lots for mobile home location in Deep Run Park Section II, meet the Howard County Zoning Regulation ZMH III C.2.b and ZMH III C.2.c. These requirements include:

- 4000 SF minimum lot size
 - 45' average width of lot at the mobile home location
 - Building / Mobile Home setbacks:
 - A) 30' from E. of internal private street
 - B) 5' from side lot line
 - C) 10' from rear lot line
 - D) 50' from differently zoned district
 - E) 20' from another building / mobile home
 - 20% Open Space*
- Kenneth A. McCord*
KENNETH A. McCORD 4-28-82 DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-6-82

AREA TABULATION

1) Lot Area	27,083 Ac.
2) Open Space including tot lots	4,009 Ac.
3) Road Area	5,485 Ac.
Total	37,477 Ac.

* 20% + Open Space is provided in the composite of Deep Run Park Sections I & II, Village of Deep Run Sections I & II and Open Space Parcel C, Now owned by Howard County Recreation and Parks. See the detailed analysis on sheet 7.

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
Kenneth A. McCord
 KENNETH A. McCORD P.E. 1974

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, M.D.
 COUNTY HEALTH OFFICER 1-12-83 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Shirley F. Newman
 DIRECTOR 1-7-83 DATE
William E. Davis
 CHIEF, BUREAU OF ENGINEERING 1-7-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Harris
 PLANNING DIRECTOR 1-13-83 DATE

John W. Muschman
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

No.	Revisions	Date
1	Changed 8" Water	3/21/83

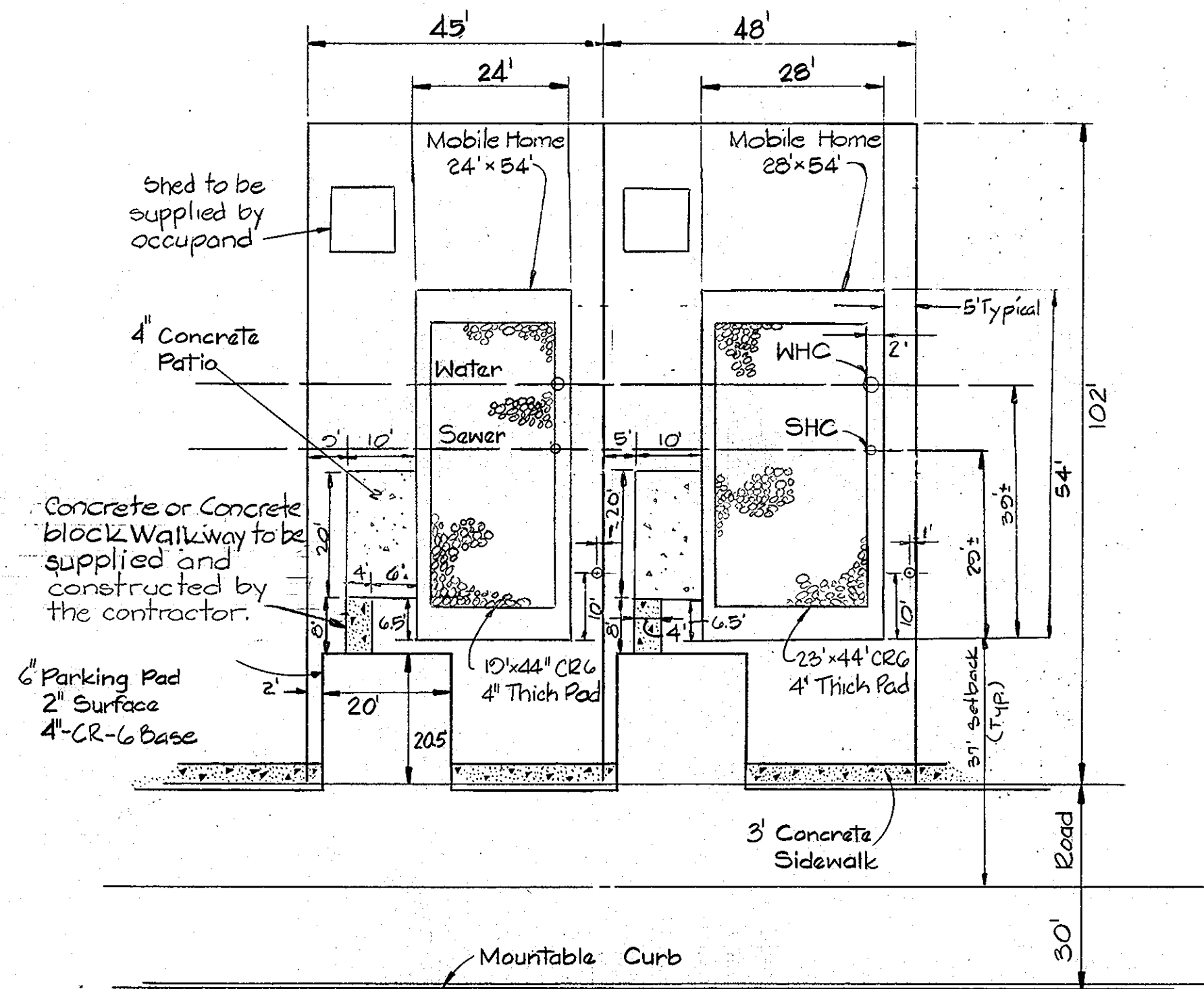
OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 SITE PLAN

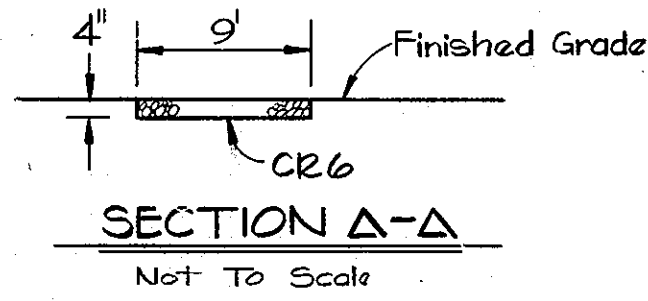
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37 PARCEL B
 DATE: 4/28/82

SCALE: AS NOTED

SHEET
 6
 OF
 25

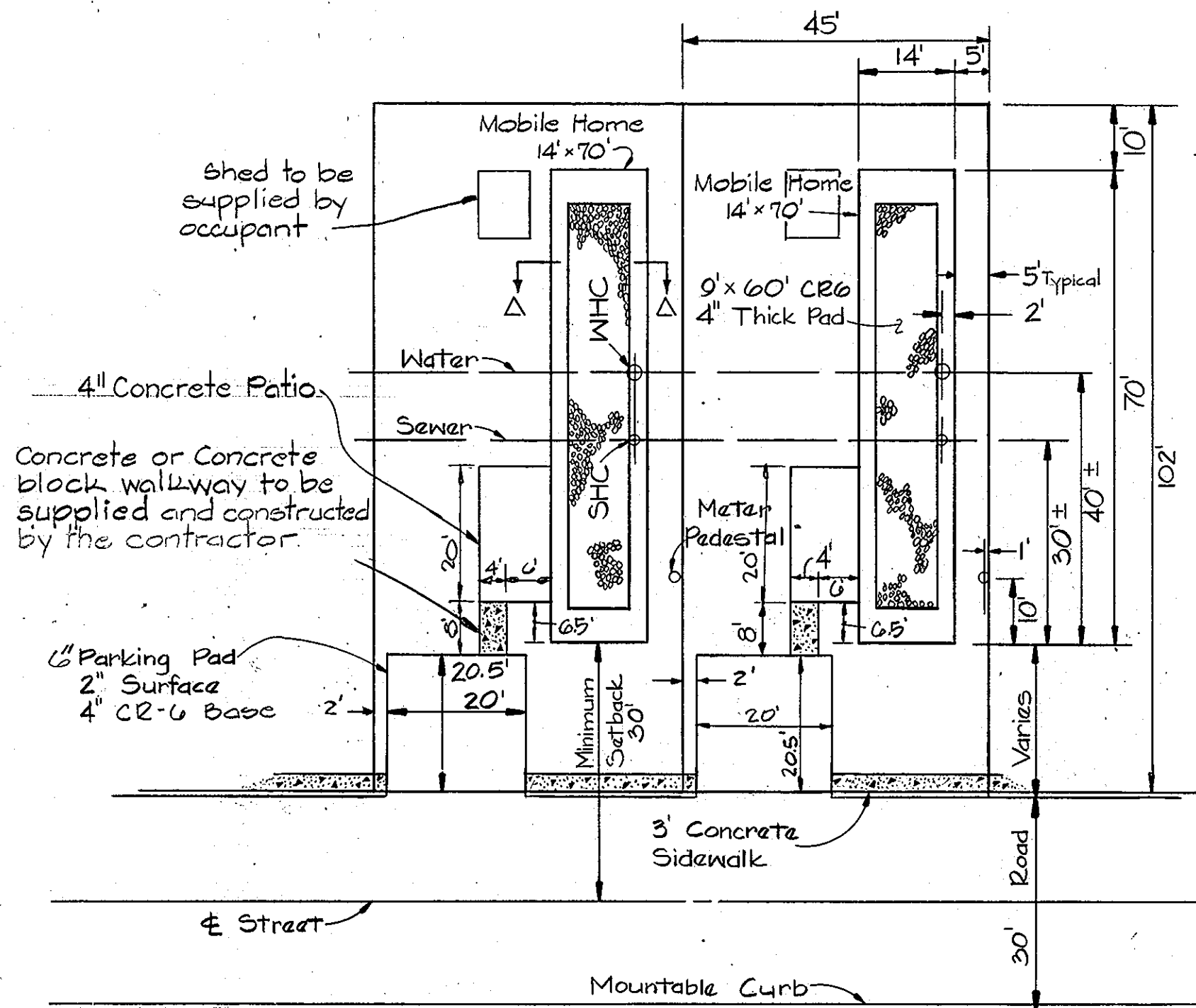


TYPICAL LOT LAYOUT
DOUBLE MOBILE HOME
24 FT WIDE & 28 FT WIDE
Scale 1" = 20'

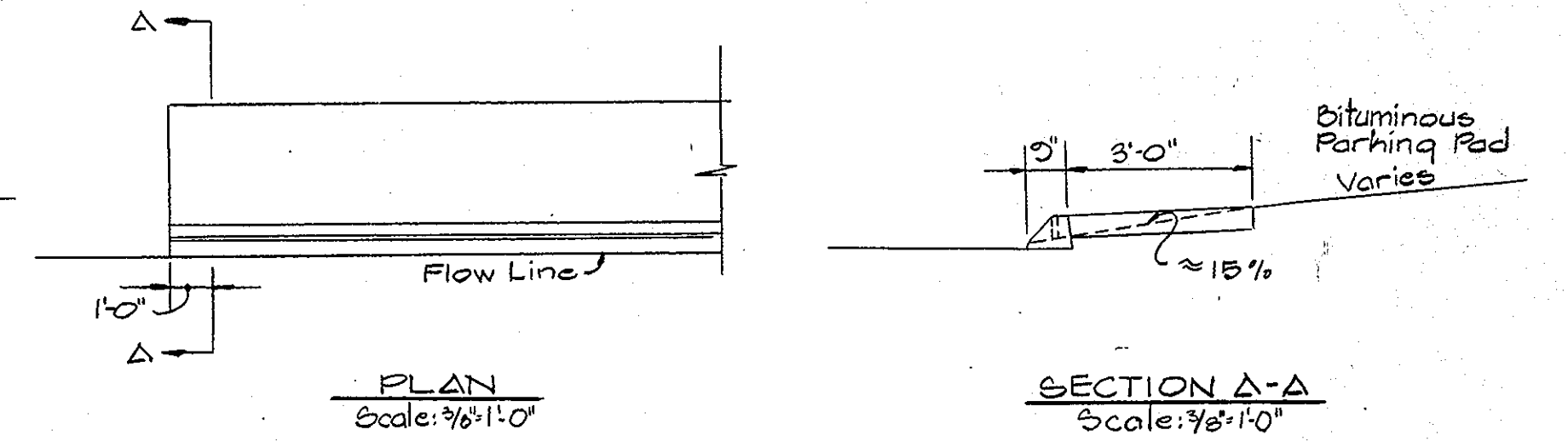


NOTES

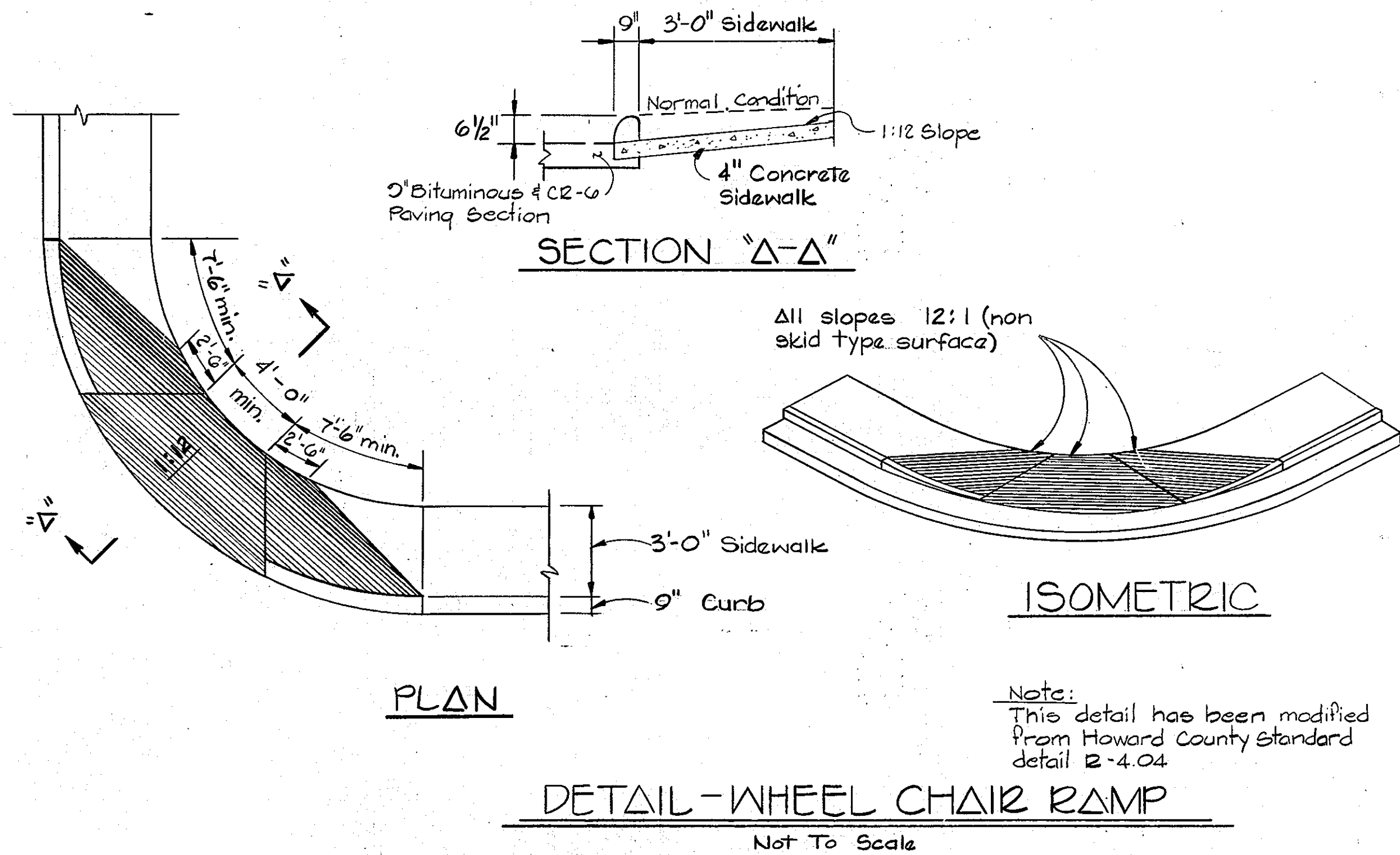
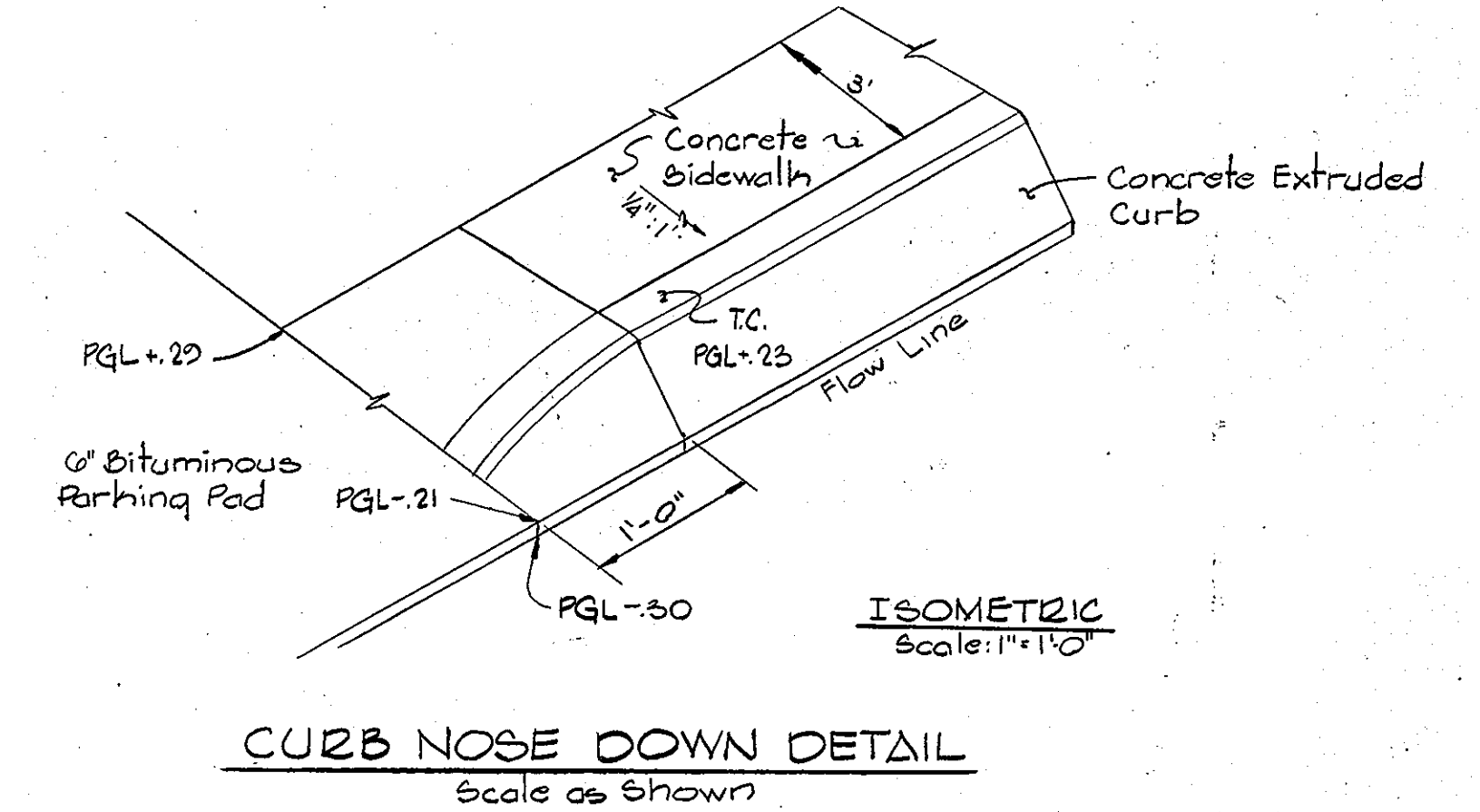
- 1) BITUMINOUS PARKING PAD TO BE 20' WIDE x 17.5' DEEP WITHOUT SIDEWALK.
- 2) ITE PEDESTAL MODEL MH-P-B-2, 42" MP-200 PANEL, PEDESTAL TO BE BURIED 34" AND SET IN CONCRETE.
- 3) MAXIMUM MOBILE HOME COVERAGE WILL BE 40% OF LOT AREA.
- 4) SHOWN ON THE SITE PLAN ARE THE MAXIMUM SIZE OF DOUBLE AND SINGLE MOBILE HOMES ALLOWED ON EACH PARTICULAR LOT.



TYPICAL LOT LAYOUT
SINGLE MOBILE HOME
Scale 1" = 20'

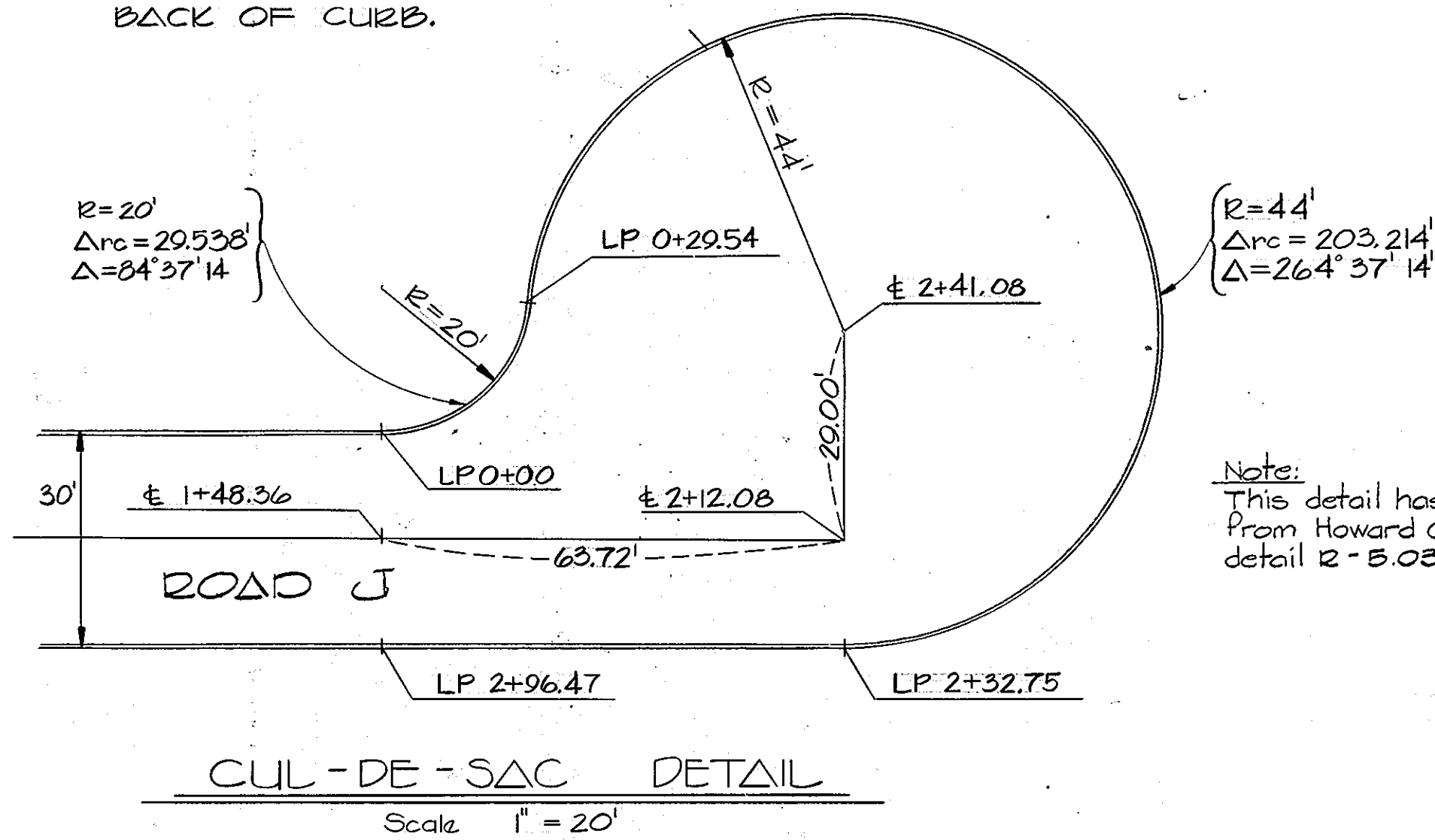


Note: This detail should serve as a guide subject to changes by the Inspector - Architect.



DETAIL - WHEEL CHAIR RAMP
Not To Scale

- NOTES
- 1) RADIUS DIMENSIONS ARE TO BACK OF CURB.
 - 2) LINEAR PROFILE (LP) STATIONS FOLLOW BACK OF CURB.



CUL-DE-SAC DETAIL
Scale 1" = 20'

TOTAL OPEN SPACE TABULATION

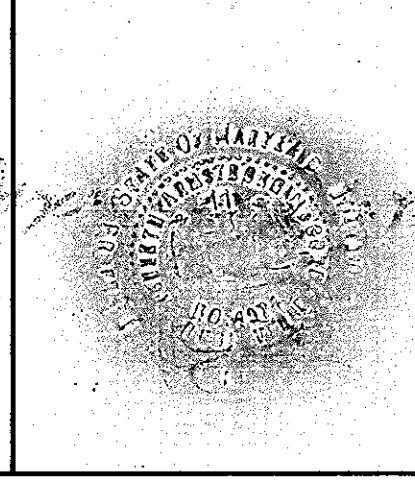
Parcel 103 of Tax Map 37 was subdivided into 3 Parcels, A, B and C. Parcel A was further subdivided into the Village of Deep Run Section I Areas I & II. Parcel B became Deep Run Park Sections I & II. Parcel C was dedicated to Howard County Recreation and Parks as Flood Plain open space. The following table shows the division of land among the sections and parcels.

	DEEP RUN PARK SECTION I	DEEP RUN PARK SECTION II	VILLAGE OF DEEP RUN SECTION I-I	VILLAGE OF DEEP RUN SECTION I-II	PARCEL C	TOTAL
LOTS	* 34.018	27.923	0.563	5.972	—	74.536 Ac.
OPEN SPACE	** 13.606	*** 4.007	1.105	4.719	2.074	25.516 Ac.
ROADWAY	5.476	5.489	3.287	1.855	—	15.103 Ac.
TOTAL	56.100	37.477	10.958	12.540	2.074	119.158 Ac.
% OPEN	24.3%	10.7%	10.1%	37.6%	100%	

* Includes office lot
** Includes pool and tot lots
*** Includes tot lots
Total Open Space Percentage = $\frac{25.516}{119.158} = 21.4\%$

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
[Signature]

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
[Signature]
KENNETH A. McCORD PE 1074

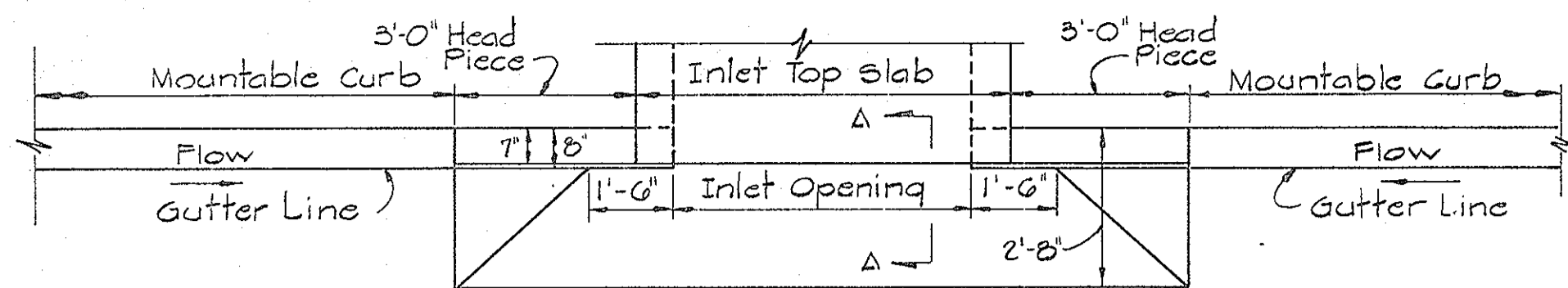


APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[Signature] COUNTY HEALTH OFFICER 1-13-83 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DIRECTOR 1-7-83 DATE
[Signature] CHIEF, BUREAU OF ENGINEERING 1-7-83 DATE

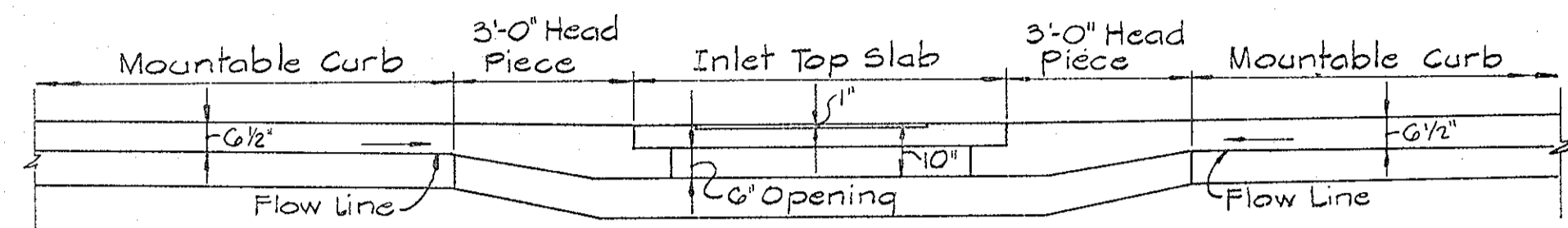
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] PLANNING DIRECTOR 1-13-83 DATE
[Signature] CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

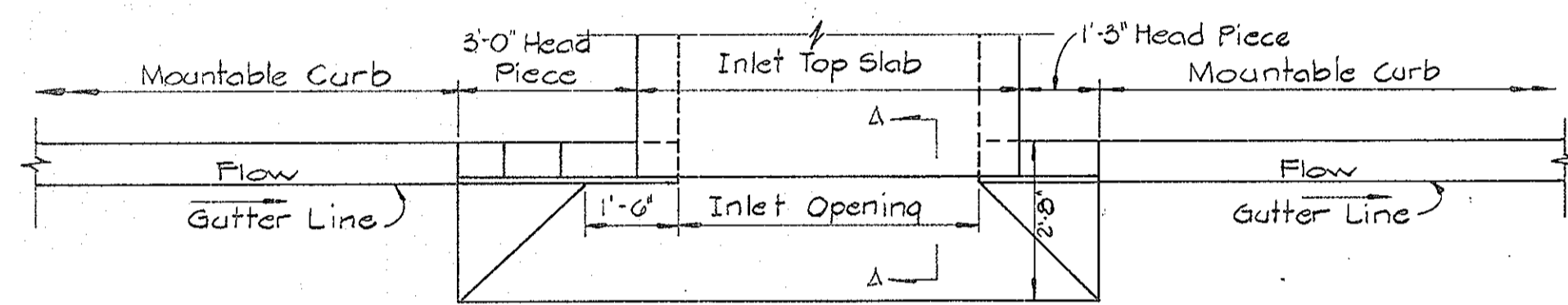
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
PARCEL B
DATE: 4/28/82
SCALE: AS NOTED



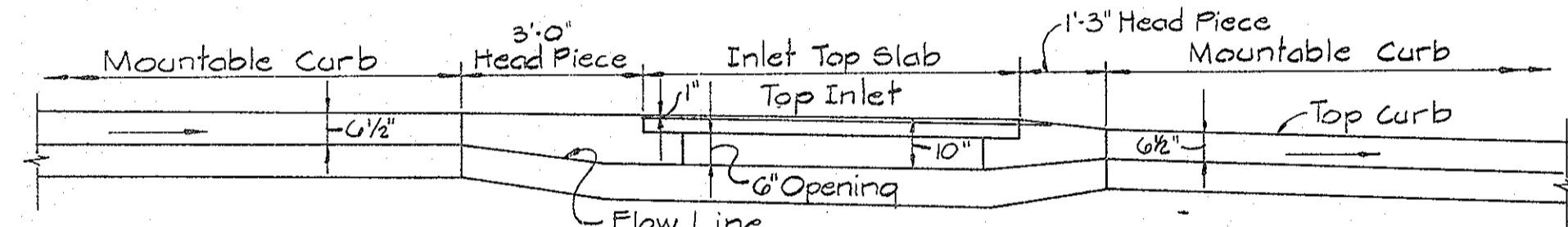
PLAN



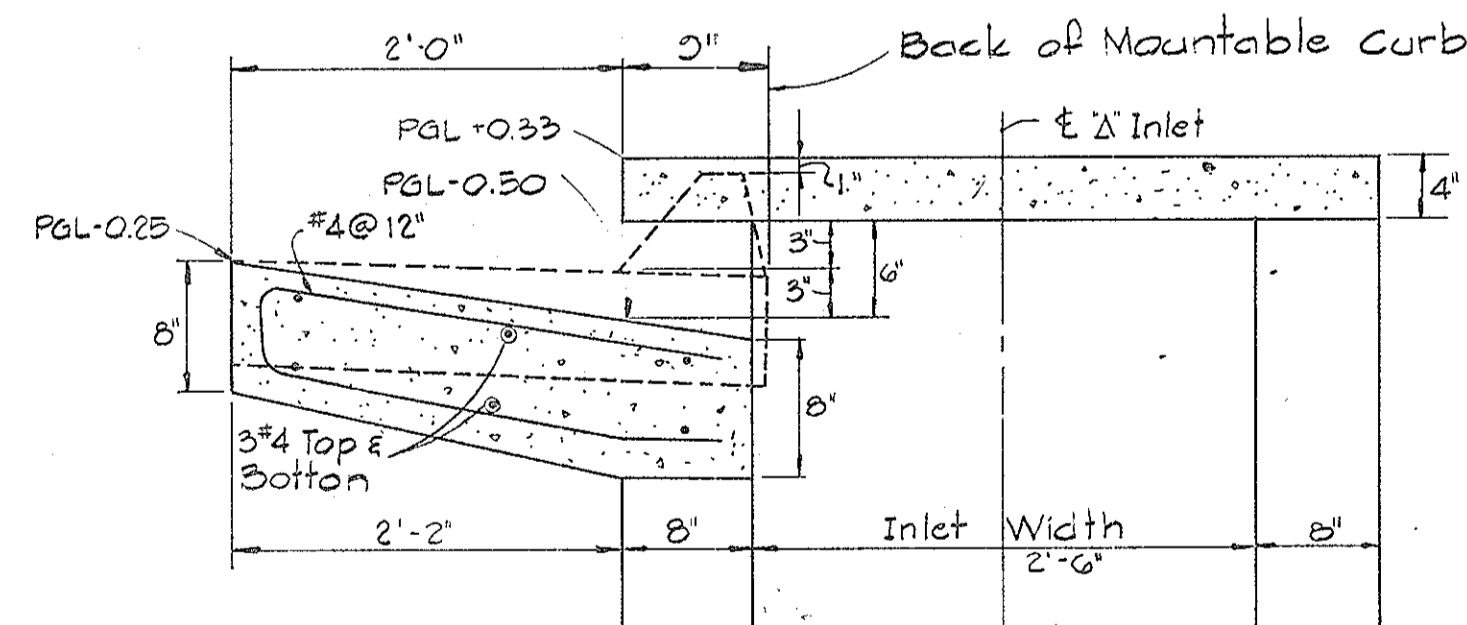
SECTION ALONG FLOW LINE
SUMPED 'A' INLETS - MOUNTABLE CURB
Scale: 3/8" = 1'-0"



PLAN



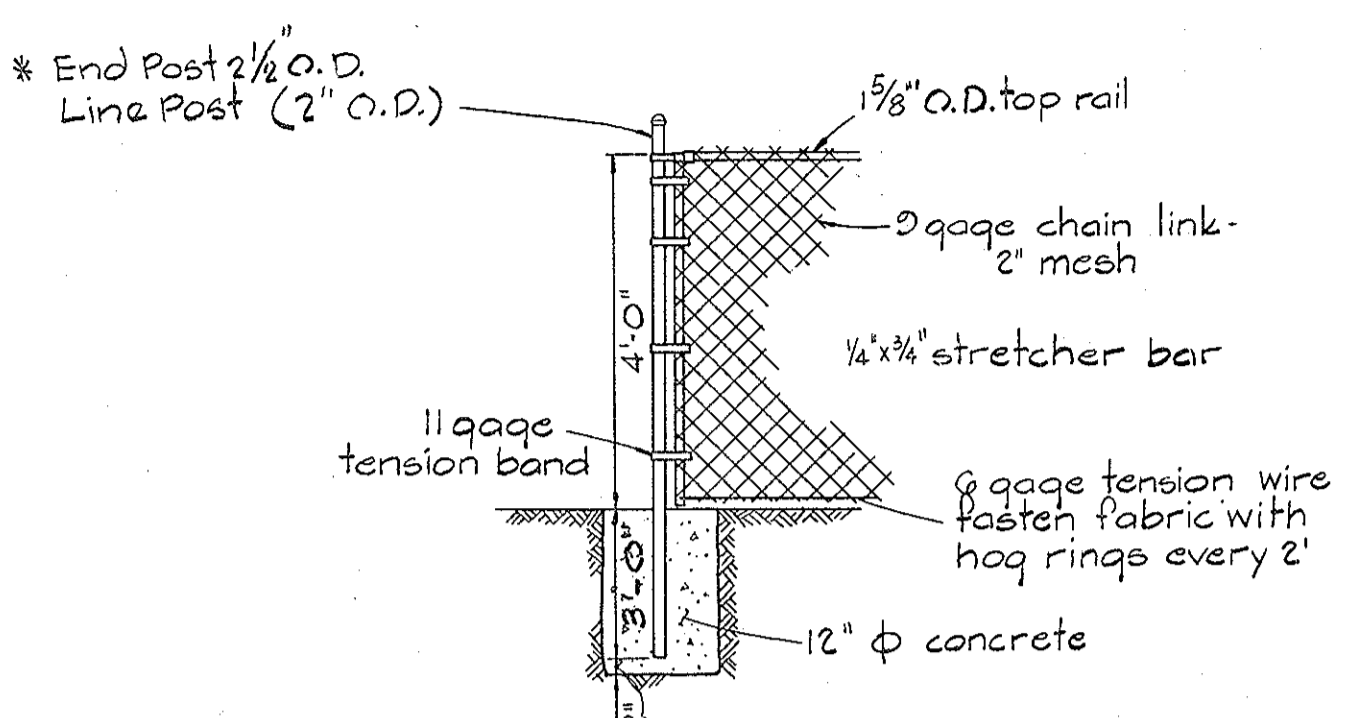
SECTION ALONG FLOW LINE
'A' INLET - MOUNTABLE CURB
Scale: 3/8" = 1'-0"



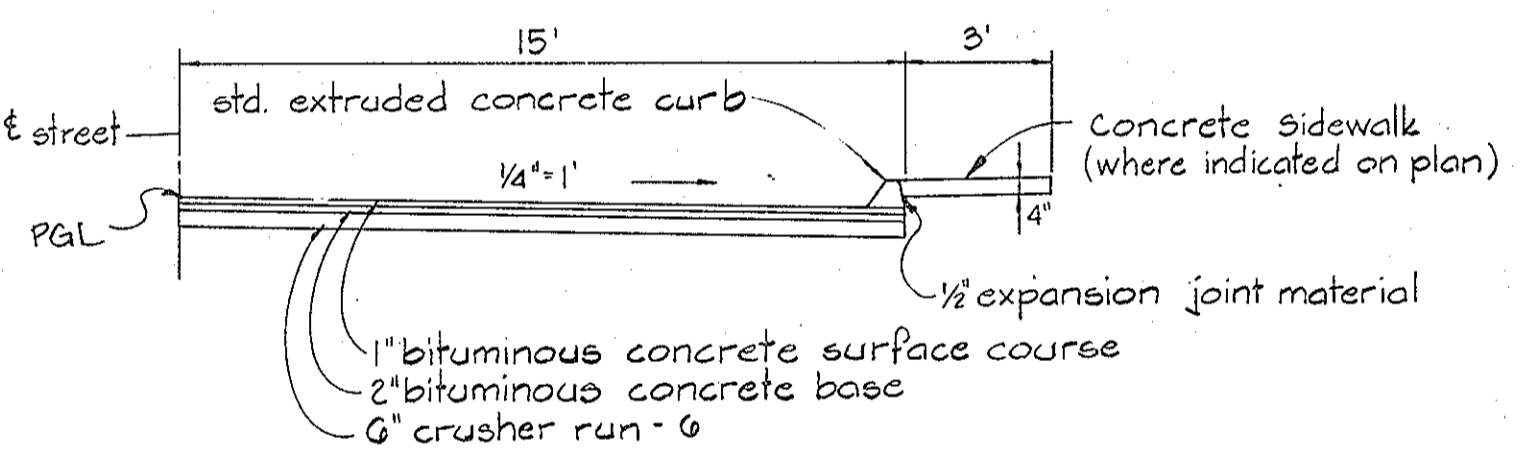
Note: For 'A' Inlet dimension and structural details see Howard County Standard Detail SD-4.01

SECTION 'A-A'
'A' INLET - MOUNTABLE CURB
Scale: 1" = 1'-0"

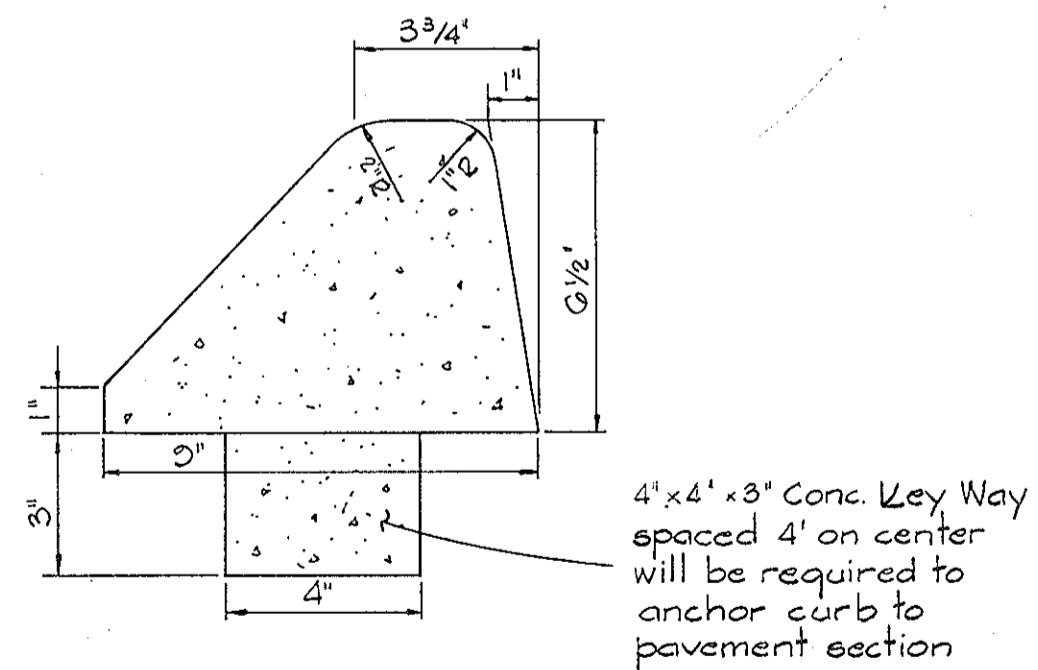
- Notes
- 1) All posts, fence fabric, rails, stretcher bars, clamps and component parts shall be galvanized steel.
 - 2) 10' spacing between posts.
 - 3) Wire fabric to be attached to line posts with 9 gage tie wires at 14" on center maximum.
 - 4) Bottom of fabric to be 2" maximum above ground.
 - 5) Fabric to have knuckled, selvage edges at top and bottom of 4' fence.
 - 6) All concrete to be 3500 p.s.i.



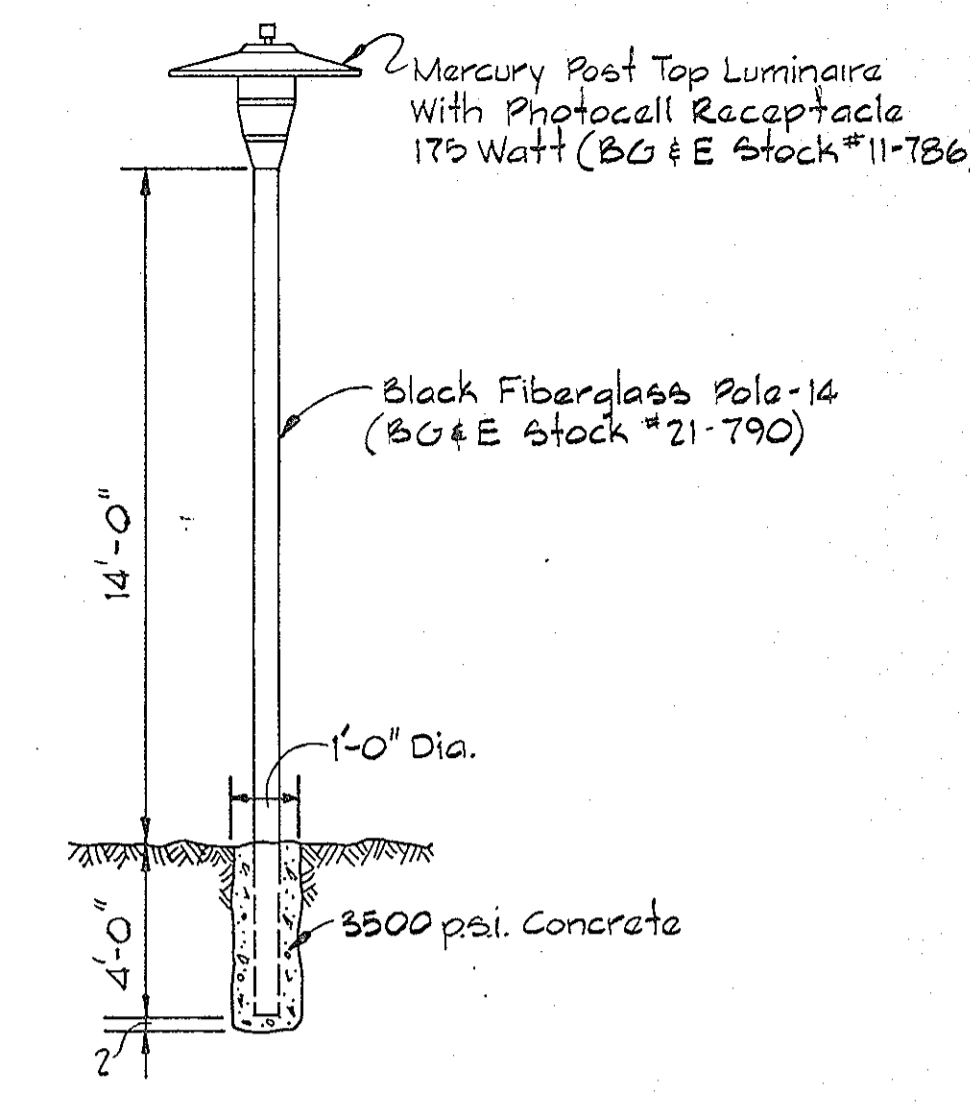
4' FENCE DETAIL
Scale: 1/2" = 1'-0"



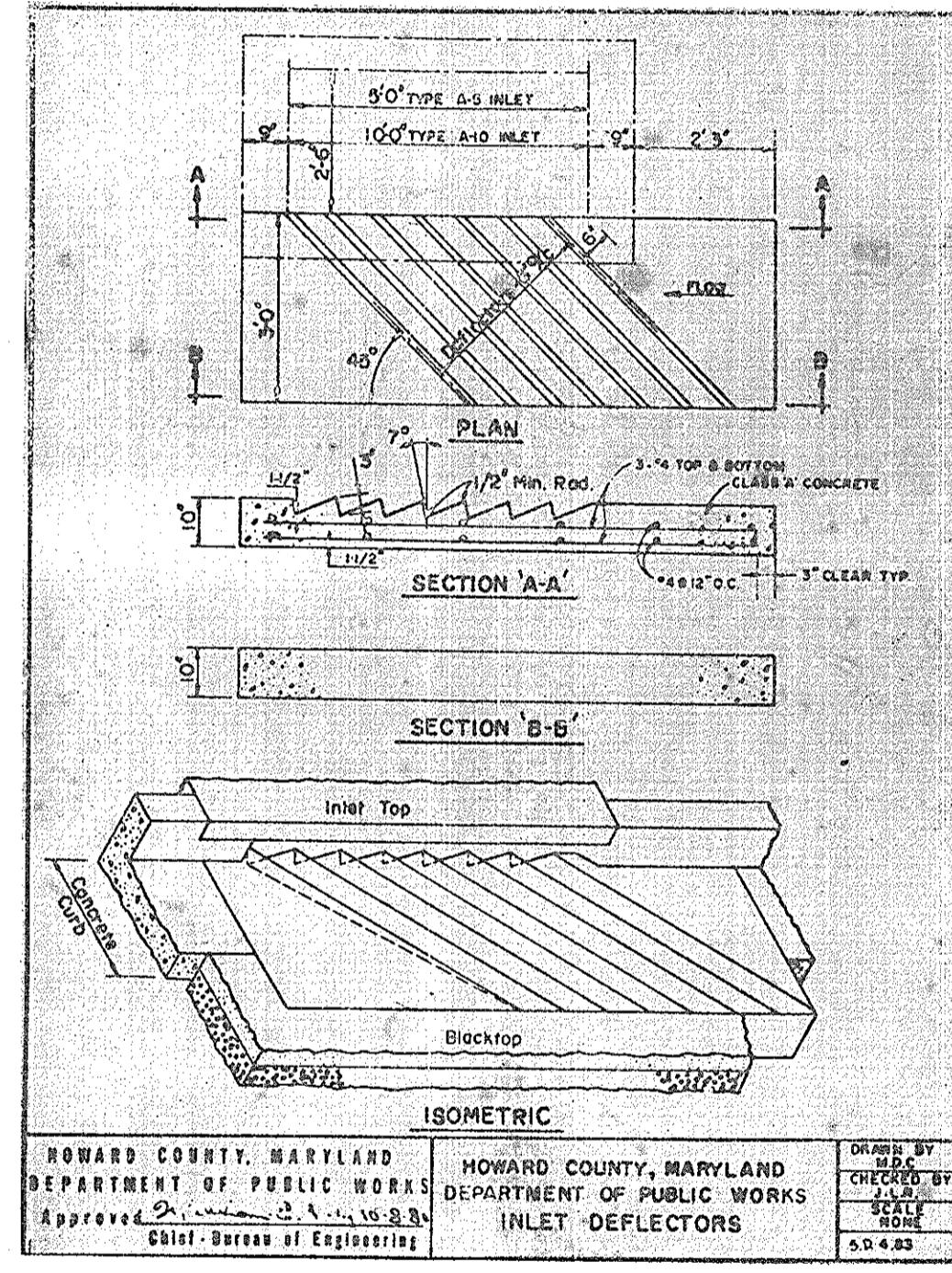
STANDARD PAVING SECTION
Scale: 1" = 1'-0"



EXTRUDED CONCRETE CURB
Scale: 1/4" = 1'



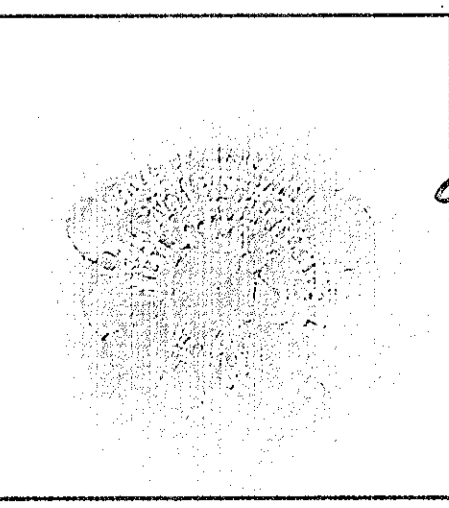
STREET LIGHTING
DETAIL
No Scale



ESTIMATE OF QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITIES
Earthwork:			
1	Cut (includes stripping under fill and undercut)	C.Y.	146,000
2	Fill (includes replace stripping under fill and topsoil)	C.Y.	110,000
3	Material excess for disposal	C.Y.	36,000
4	Seed and mulch yard areas	Ac.	21.5
5	Bituminous concrete road way (9')	S.Y.	26,550
6	Bituminous concrete parking pads (6')	S.Y.	9,970
7	Concrete patios (4')	S.Y.	5,670
8	CR-6 mobile home pads (4')	S.Y.	15,300
9	3' wide concrete walk	S.Y.	1,710
10	Standard Δ-5 inlet	Ea.	3
11	Standard Δ-5 inlet with deflectors	Ea.	7
12	Standard Δ-10 inlet	Ea.	6
13	Standard Δ-10 inlet with deflectors	Ea.	4
14	Type 'D' inlet	Ea.	5
15	Standard storm drain manhole	Ea.	1
16	15' precast concrete outlet structure	Ea.	2
17	18' precast concrete outlet structure	Ea.	3
18	24' precast concrete outlet structure	Ea.	2
22	15" RCP class IV	L.F.	901
23	18" RCP class IV	L.F.	570
24	21" RCP class IV	L.F.	92
25	24" RCP class IV	L.F.	268
27	6" Riprap outfall protection (14" Thick)	S.Y.	230
28	8" Riprap outfall protection (20" Thick)	S.Y.	100
29	150lb Riprap (slope protection at W&S crossings)	S.Y.	30
30	Standard extruded concrete curb	L.F.	10,065
31	Clearing	A.C.	34.7
32	Mail Boxes	Ea.	16
33	Street Lights	Ea.	36
34	Water Pedestal w/Meter Box	Ea.	255
35	8" Ductile Iron Pipe Cl. 52	L.F.	3,295
36	6" Ductile Iron Pipe Cl. 52	L.F.	4,580
37	2" P.V.C. (Potable water pipe)	L.F.	5,920
38	6" Fire Hydrants W/6" D.I. Leads	Ea.	10
39	Water House Connections	Ea.	255
40	8" Sanitary Sewer Pipe	L.F.	1,785
41	6" Sanitary Sewer Pipe	L.F.	11,920
42	Sanitary Sewer Manholes (Precast)	Ea.	41
43	Sanitary Sewer Lampholes	Ea.	15
44	Type 'B' drop Manholes	Ea.	1
45	Sewer House Connections	Ea.	255
46	Landscaping	Ea.	
47	Playground Equipment	Ea.	
48	4' Fence	L.F.	1,110
49	4' Wide Bituminous Concrete pathways (4')	S.Y.	92
50	6" Underdrains	L.F.	1,000
51	M.S.H.A. #6 Stone	C.Y.	600
SEDIMENT CONTROL			
52	Earth Dikes (Perimeter & Diversion)	L.F.	6,200
53	Sediment Trap Excavation	C.Y.	2,900
54	M.S.H.A. #2 Stone	C.Y.	90
55	Bill Fence	L.F.	200
56	30" CMP	L.F.	31

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
[Signature]

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
[Signature]
KENNETH A. McCORD P.E. 1074

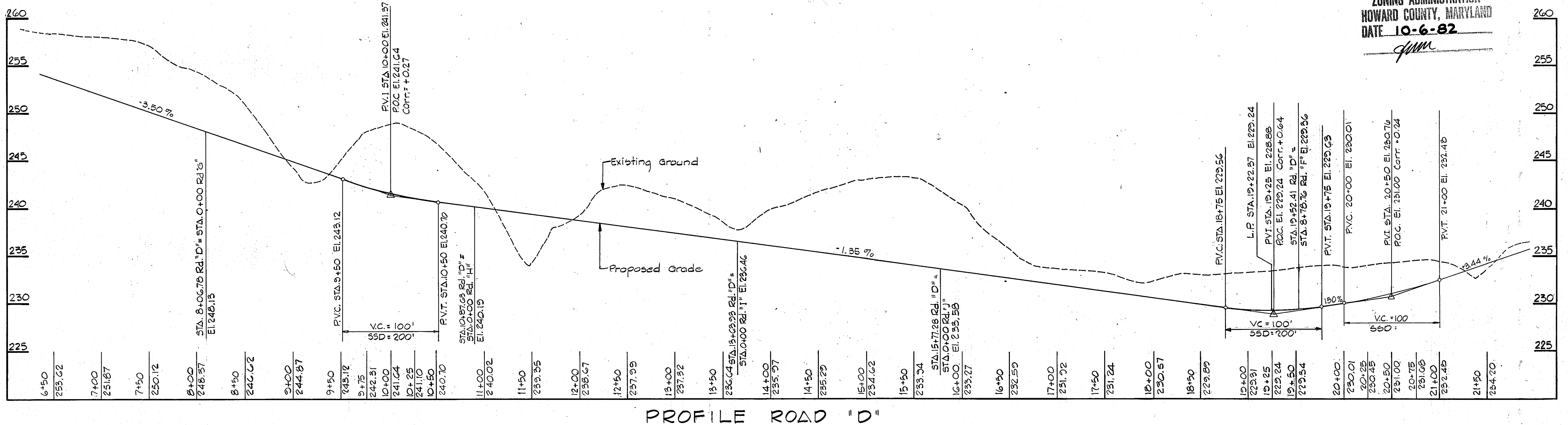
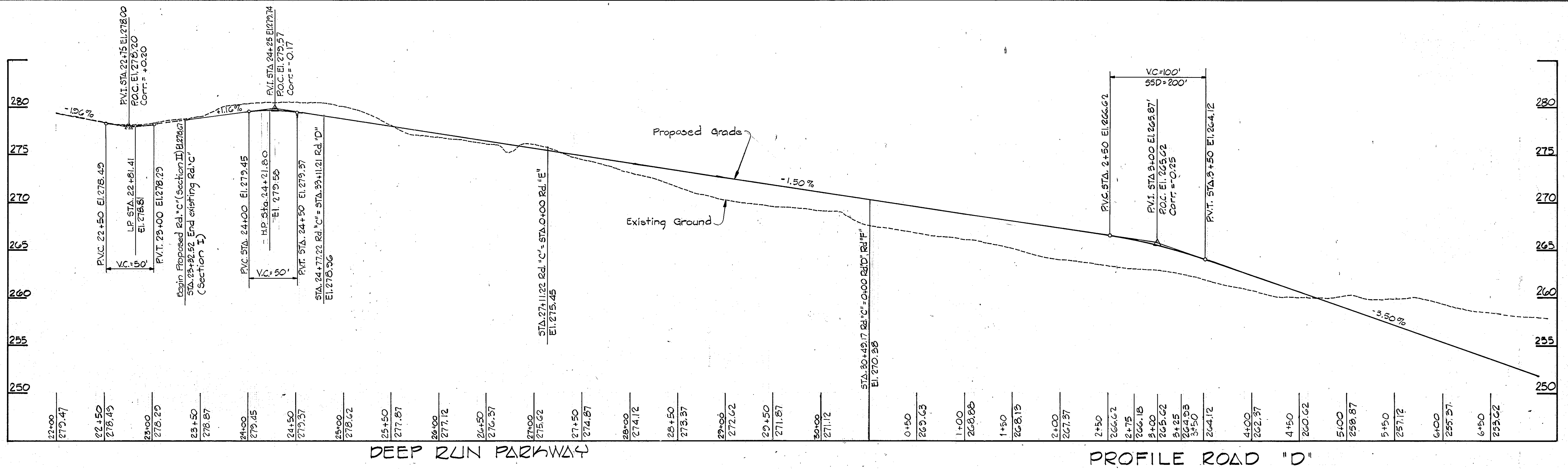


APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 1-10-82
COUNTY HEALTH OFFICER DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 1-7-83
DIRECTOR DATE
[Signature] 1-7-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 1-13-83
PLANNING DIRECTOR DATE
[Signature] 1-13-83
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
ROAD DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 87
PARCEL B
DATE: 4/28/82
SCALE: AS NOTED
SHEET 8 OF 25
SDP-82-126 9-2-82



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-6-82
[Signature]

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
[Signature]
 KENNETH A. McCORD PE 1074

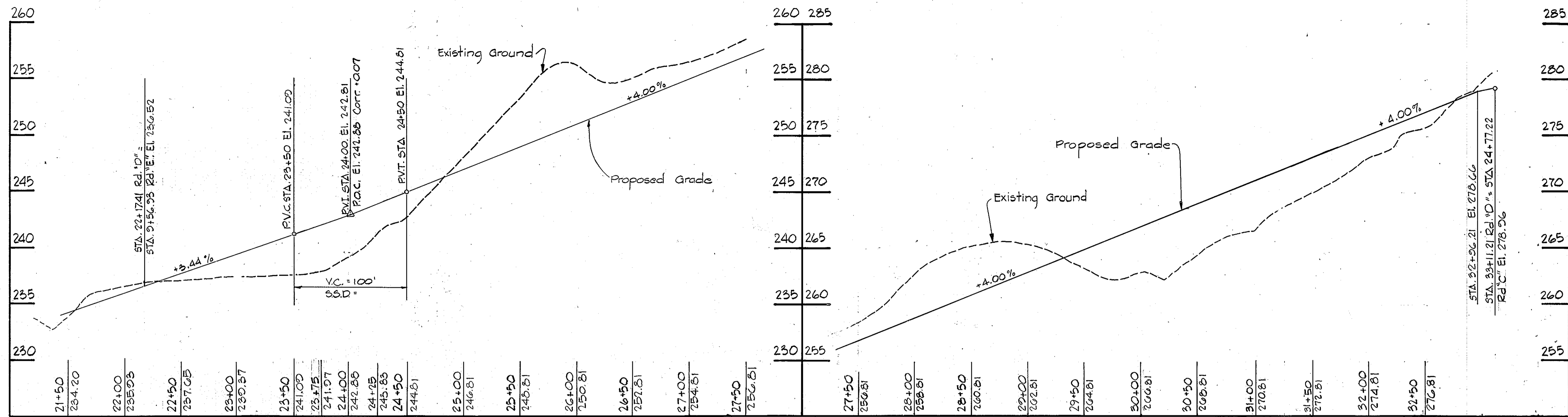


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[Signature] 1-10-83
 COUNTY HEALTH OFFICER DATE
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 1-7-83
 DIRECTOR DATE
[Signature] 1-7-83
 CHIEF, BUREAU OF ENGINEERING DATE

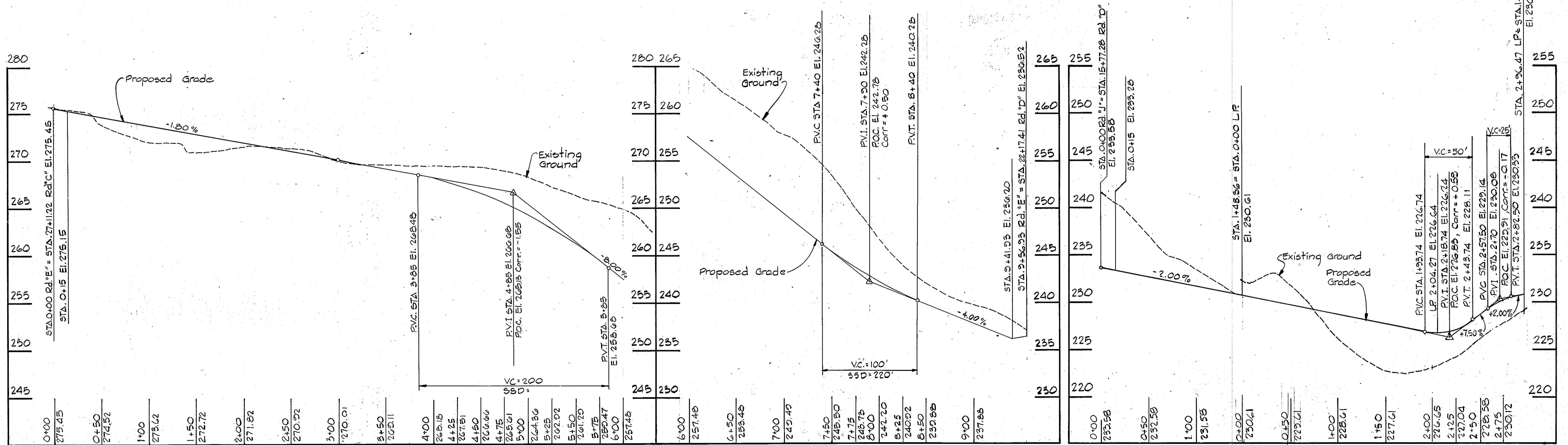
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 1-13-83
 PLANNING DIRECTOR DATE
[Signature] 1-13-83
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5002
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 ROAD PROFILE
 DEEP RUN PARKWAY & Rd. D
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37 PARCEL 163
 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED
 SHEET 9 OF 25



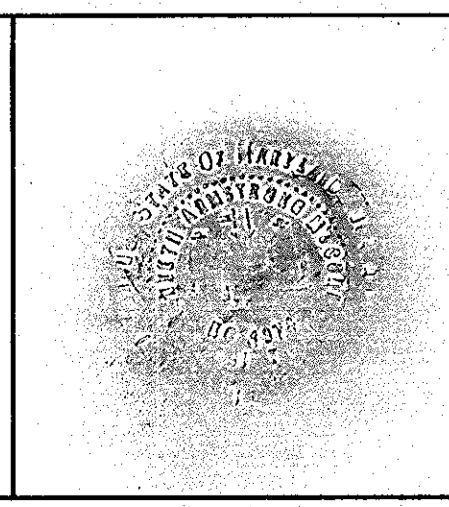
PROFILE ROAD "D"



PROFILE ROAD "E"

PROFILE ROAD "J"

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
Kenneth A. McCord
 KENNETH A. MCCORD P.E. 1974



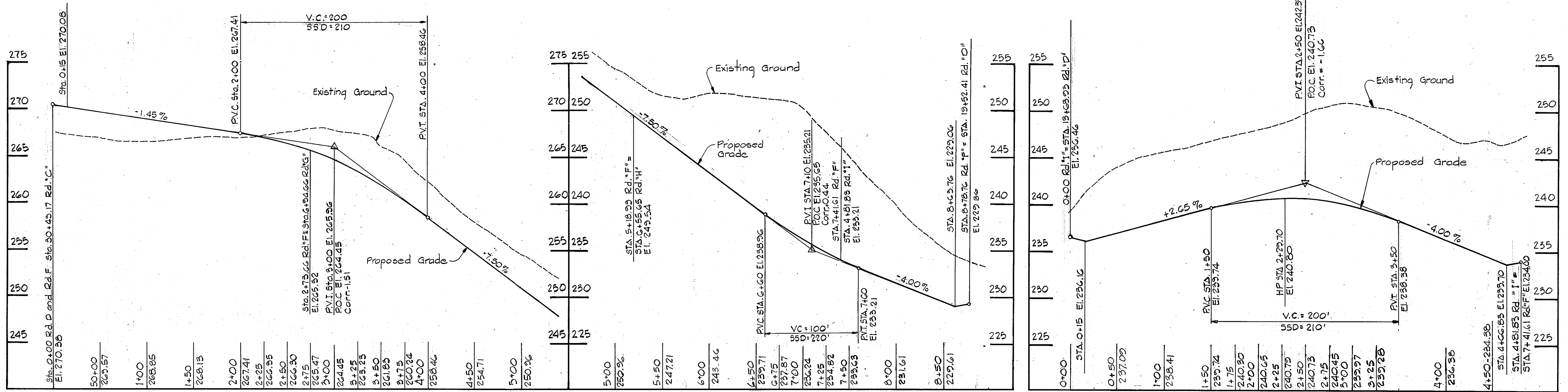
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Reed, M.D., P.E.
 COUNTY HEALTH OFFICER 1-12-83
 DATE
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Shirley F. Nemmer
 DIRECTOR 1-7-83
 DATE
William S. Kelly
 CHIEF, BUREAU OF ENGINEERING 1-7-83
 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Edward J. Amis
 PLANNING DIRECTOR 1-13-83
 DATE
Phillip M. Murchison
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83
 DATE

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

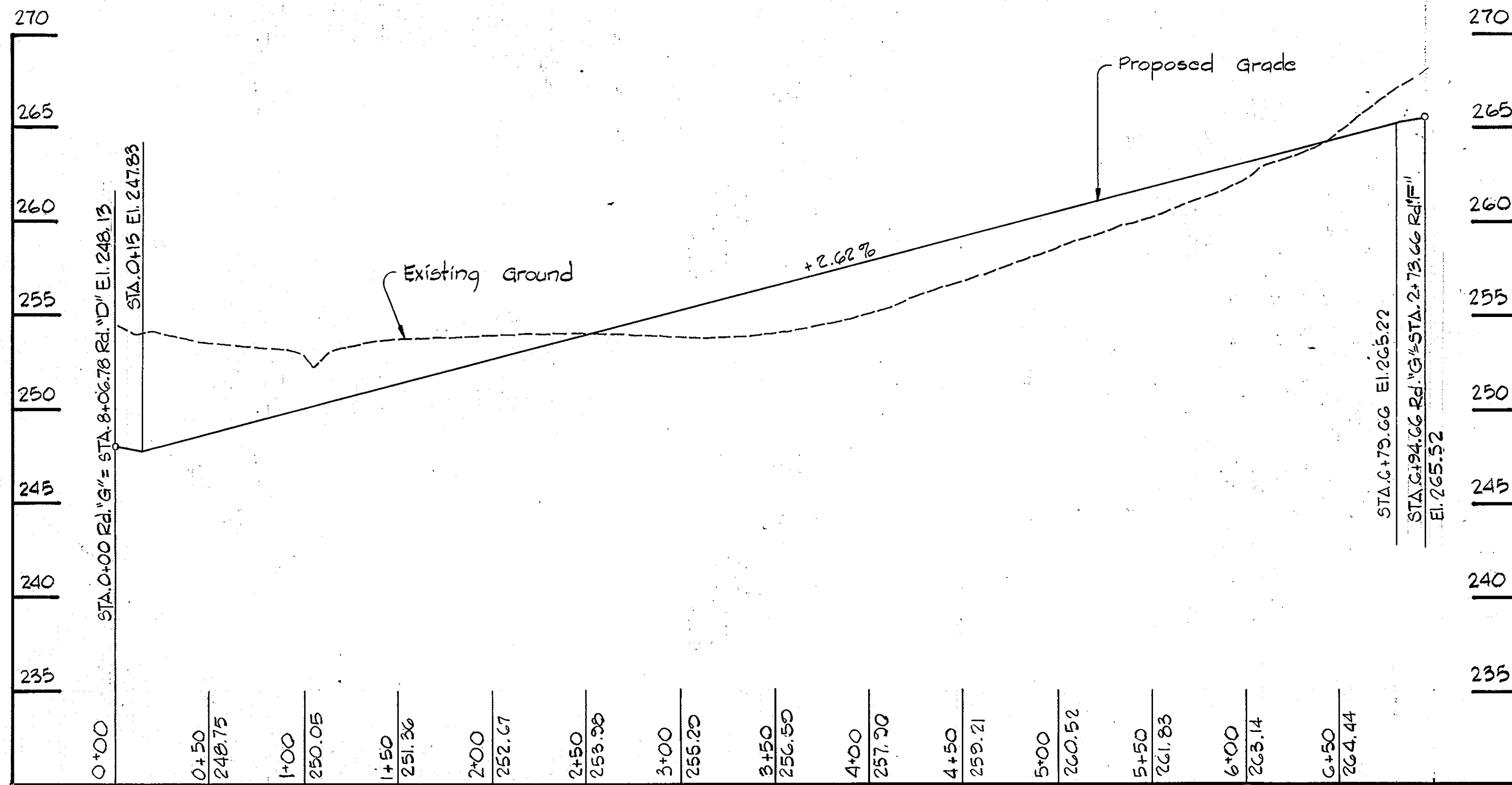
SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 ROAD PROFILE RD. D, E, J
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37
 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED

SHEET
 10
 OF
 25

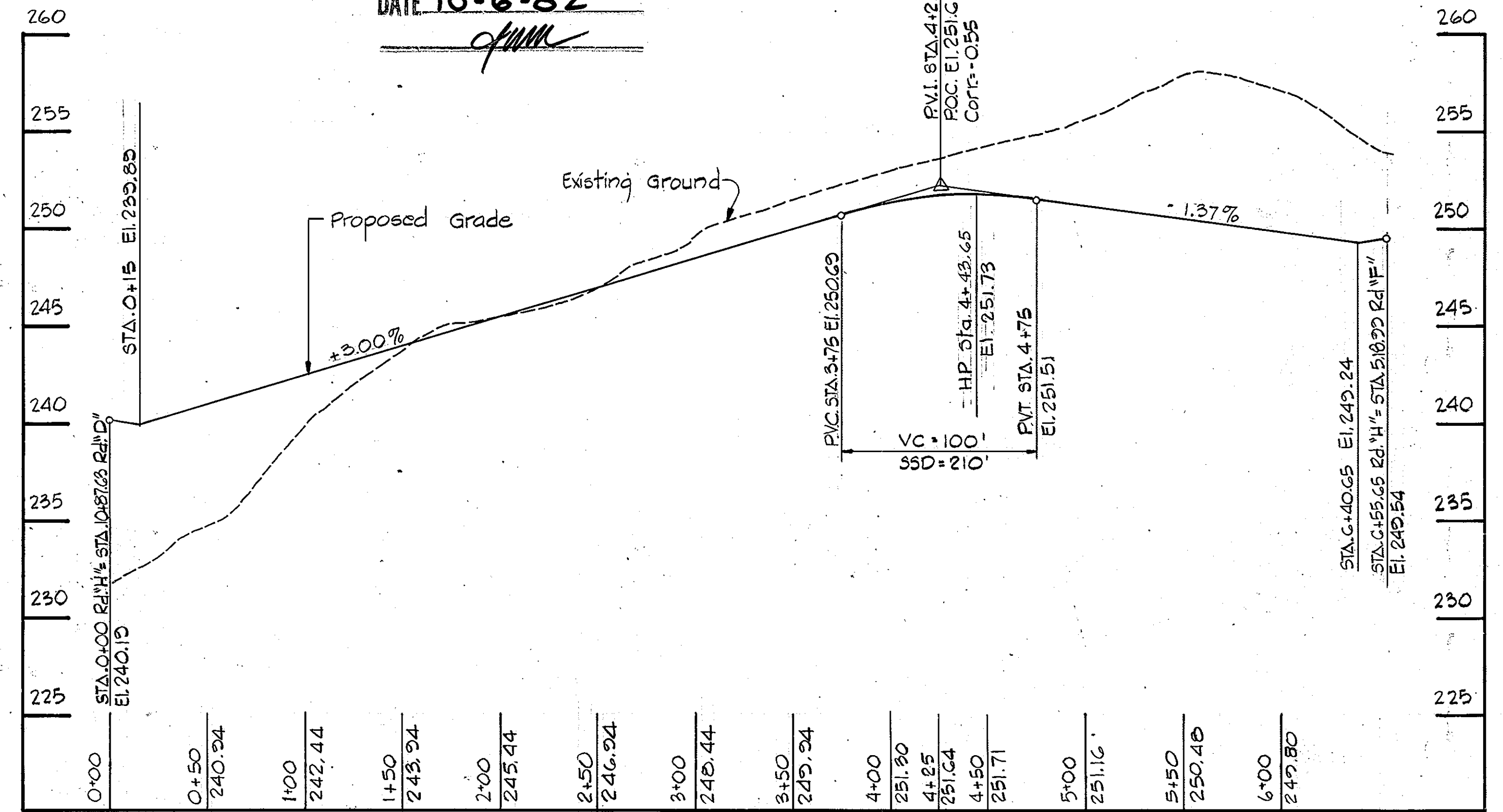


PROFILE ROAD "F"

PROFILE ROAD "I"



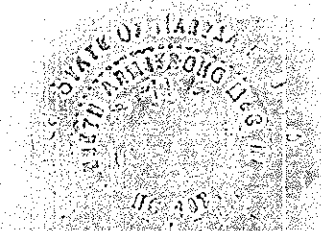
PROFILE ROAD "G"



PROFILE ROAD "H"

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-6-82

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord
 KENNETH A. MCCORD P.E. 1074



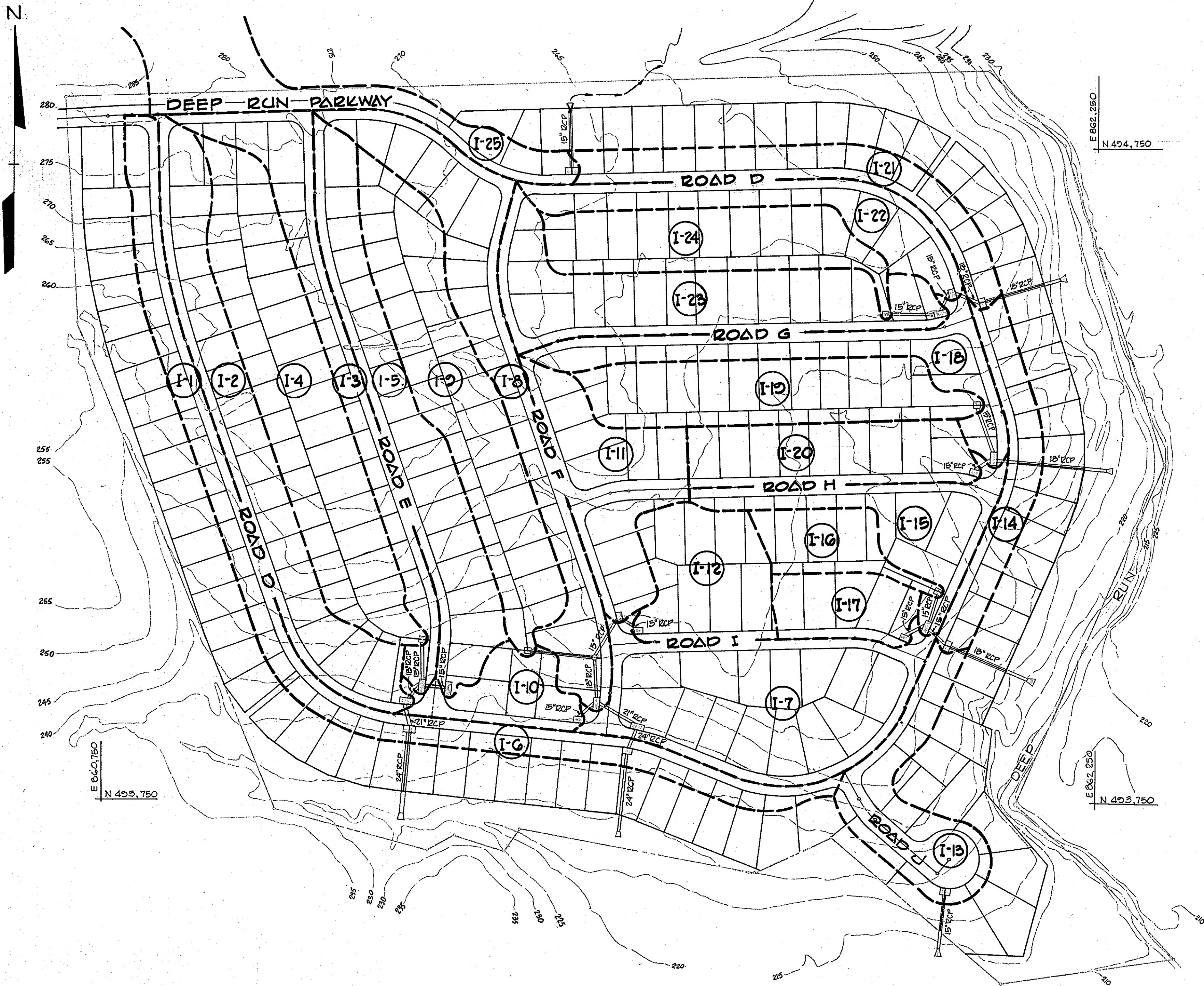
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 JAMES M. DODD, M.D., Dr. P.E. 1-10-83
 COUNTY HEALTH OFFICER DATE
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 W. F. NUNN 1-7-83
 DIRECTOR DATE
 W. S. ROSS 1-7-83
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DONALD L. HARRIS 1-13-83
 PLANNING DIRECTOR DATE
 J. M. MURPHY 1-13-83
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5002
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 ROAD PROFILE F, G, H, I
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37
 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED

SHEET
 11
 OF
 25

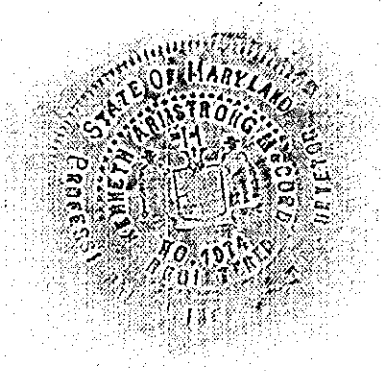


INLET AREA DATA			
INLET	AREA (ACRES)	PERCENT IMPERVIOUS (%)	RUNOFF COEFFICIENT
I-1	1.05	56	0.62
I-2	1.70	34	0.45
I-3	1.11	58	0.64
I-4	2.11	20	0.35
I-5	1.54	37	0.48
I-6	0.58	57	0.65
I-7	2.05	37	0.48
I-8	1.55	43	0.53
I-9	1.90	20	0.35
I-10	0.51	36	0.47
I-11	1.09	40	0.50
I-12	0.90	23	0.37
I-13	0.85	58	0.64
I-14	0.64	42	0.57
I-15	0.80	50	0.58
I-16	0.48	20	0.35
I-17	0.50	30	0.43
I-18	0.75	50	0.58
I-19	1.25	20	0.35
I-20	0.93	32	0.44
I-21	0.84	44	0.53
I-22	0.88	52	0.59
I-23	1.56	38	0.49
I-24	1.12	20	0.35
I-25	2.02	32	0.40

PLAN
1" = 100'

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd, M.D. P.H. 1-10-83
COUNTY HEALTH OFFICER DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Mark F. Neuman 1-7-83
DIRECTOR DATE
1-7-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Donald J. Harnish 1-13-83
PLANNING DIRECTOR DATE
John M. ... 1-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
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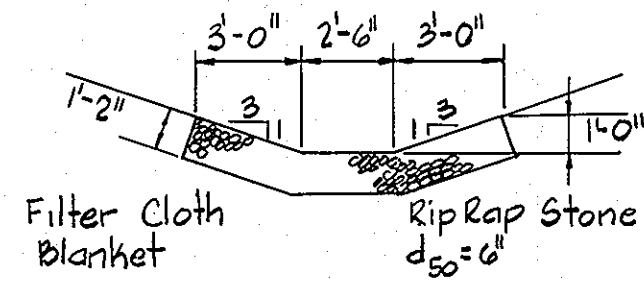
SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
DRAINAGE AREA MAP

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL 5
DATE: 4/28/82
SCALE: AS NOTED

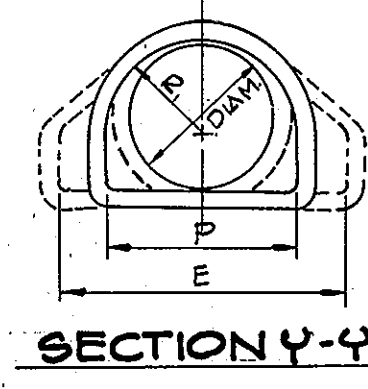
SHEET
12
OF
25

FLARED END SECTION - OUTLET

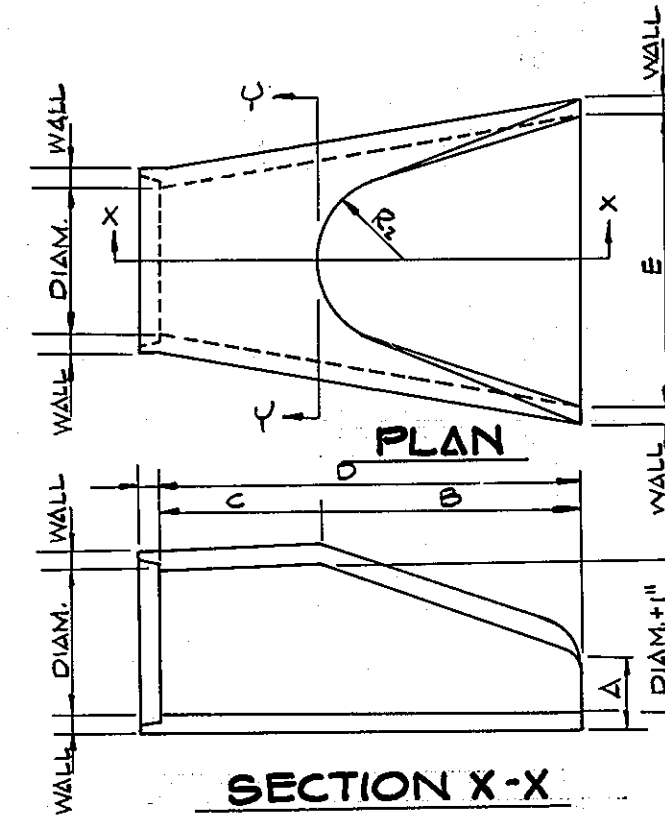
DIAM.	WALL	A	B	C	D	E	F	P	Q ₁	Q ₂	T
15	2 1/4	G	27	46	73	30	3:1	24 3/4	12 1/2	11	2
18	2 1/2	G	27	46	73	30	3:1	20	15 1/2	12	2 1/2
24	3	D 1/2	43 1/2	30	73 1/2	48	3:1	33 3/4	10 3/4	14	2 3/4



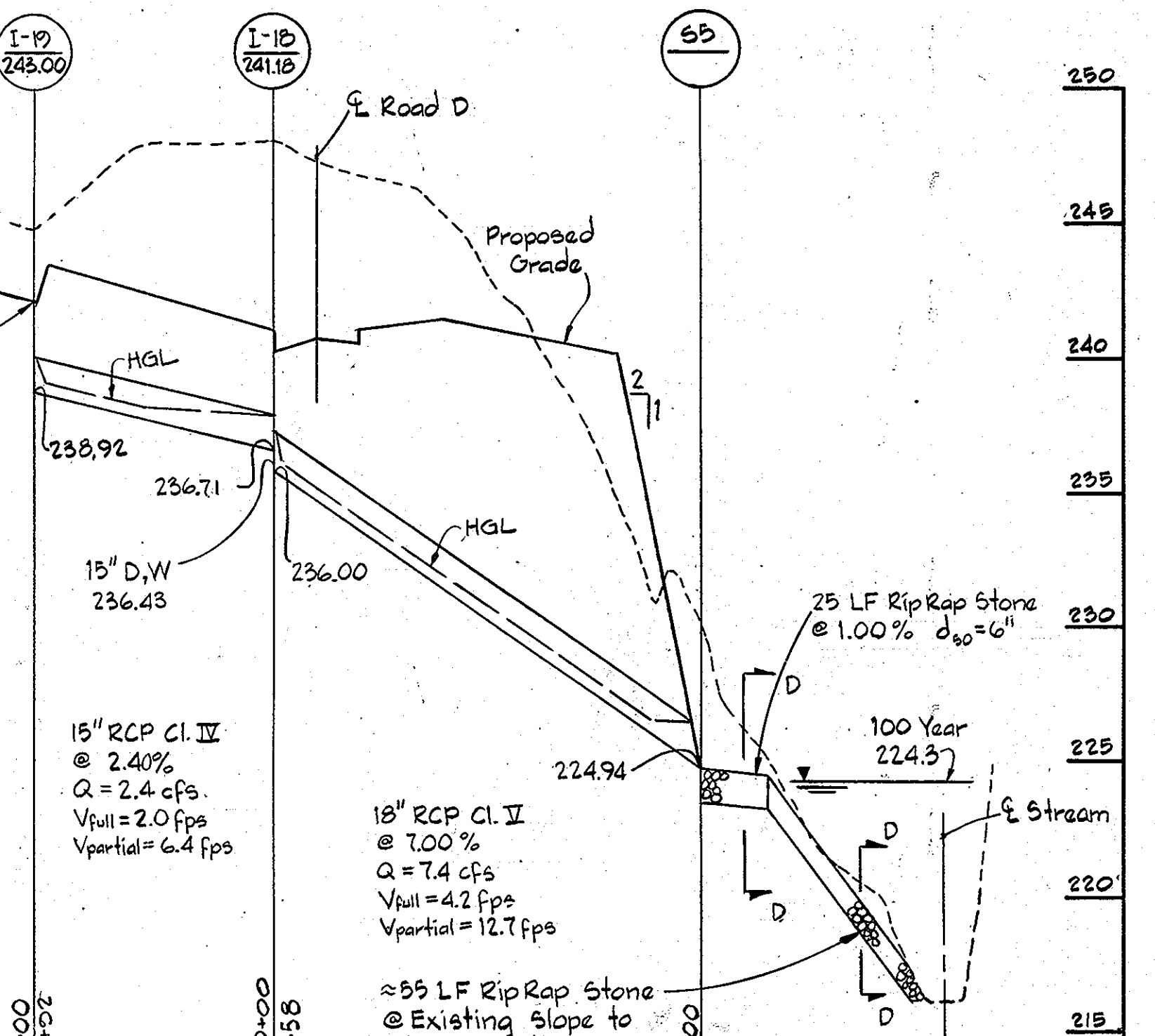
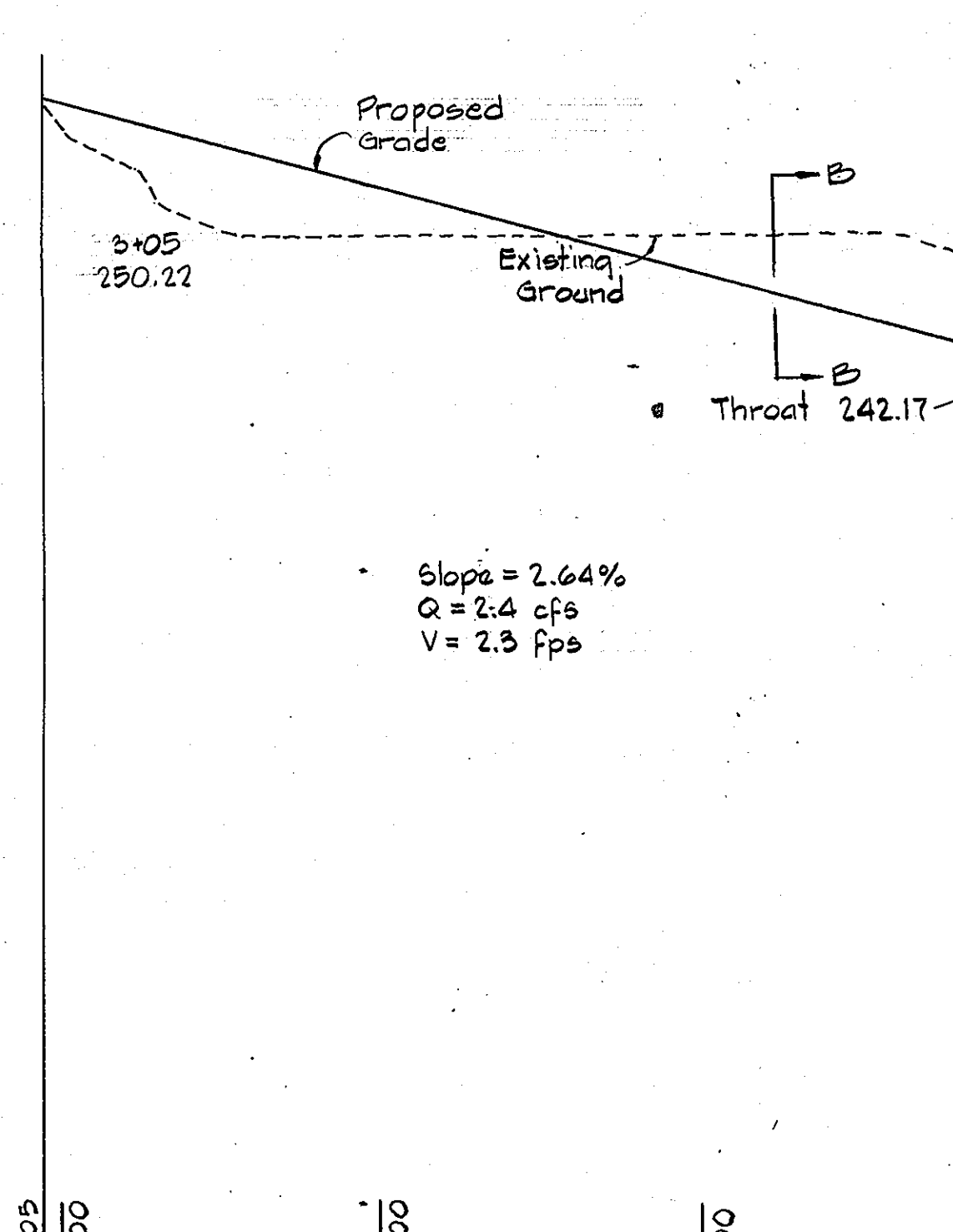
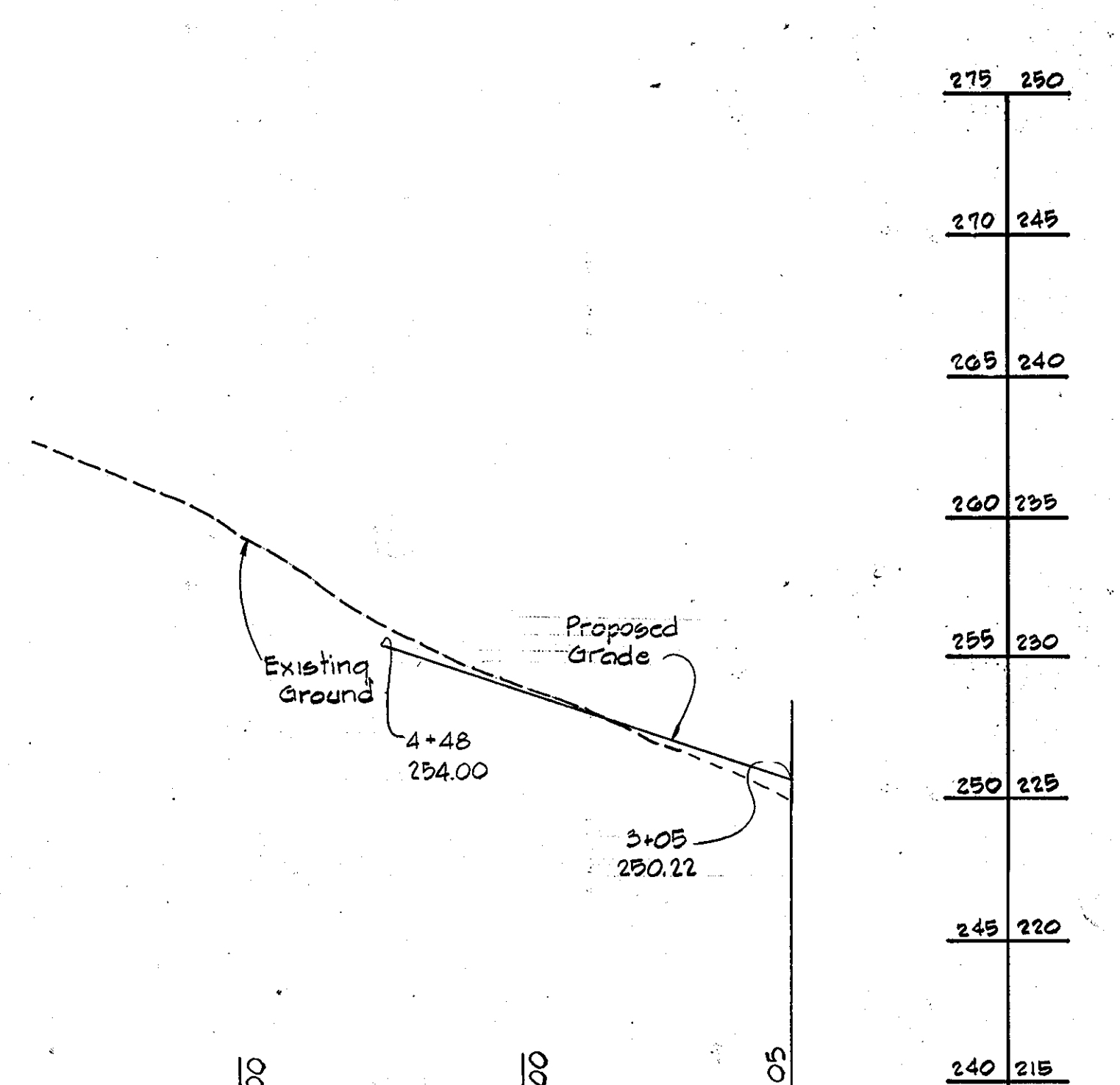
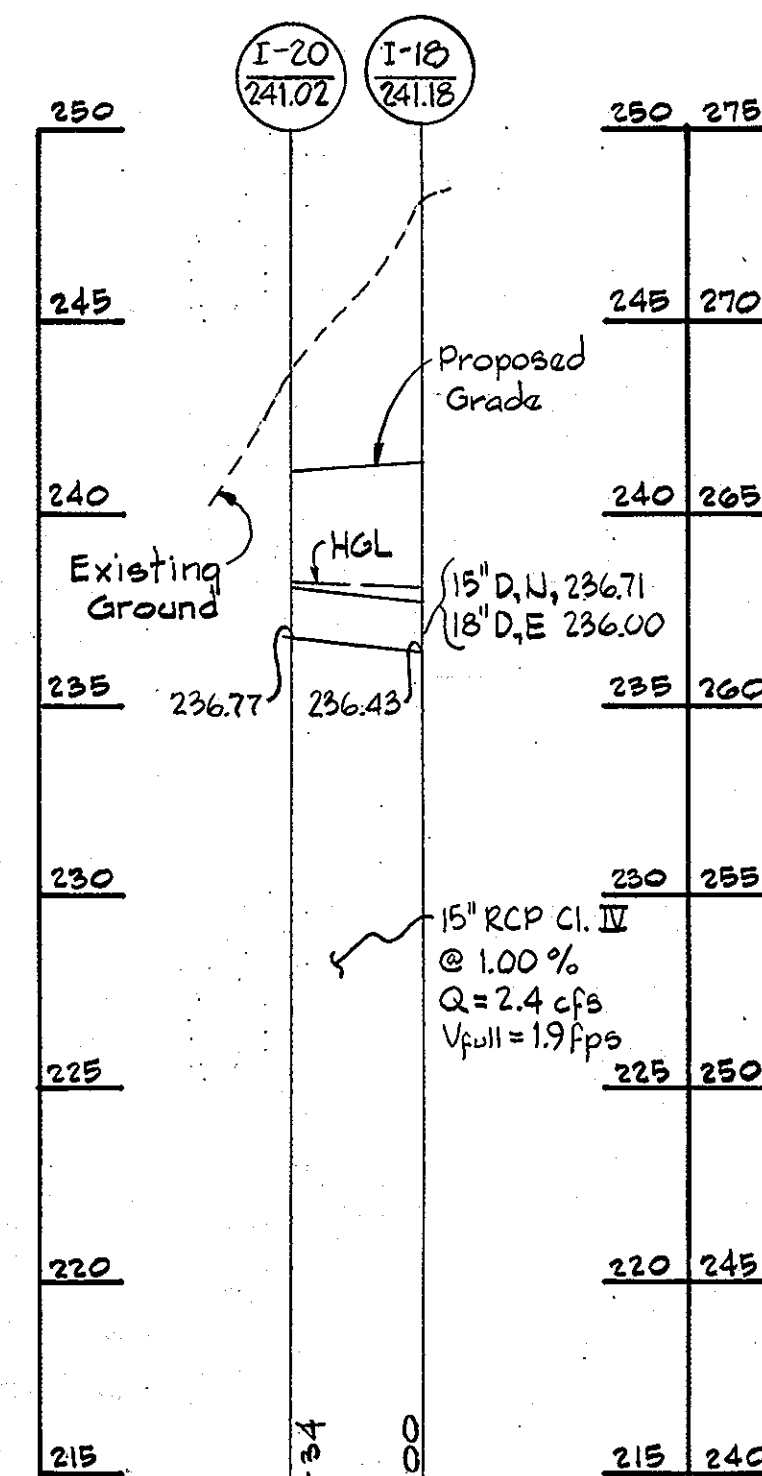
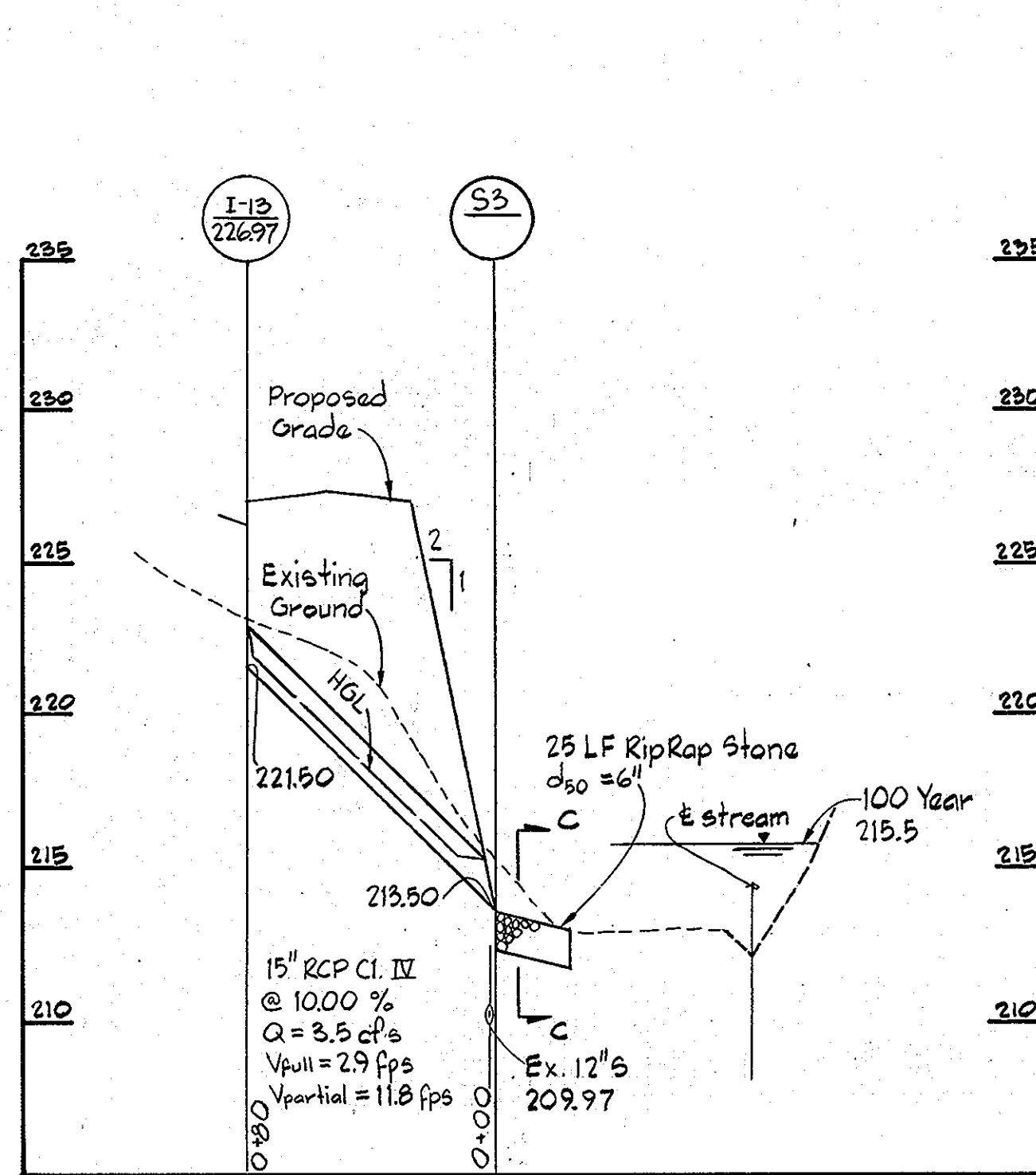
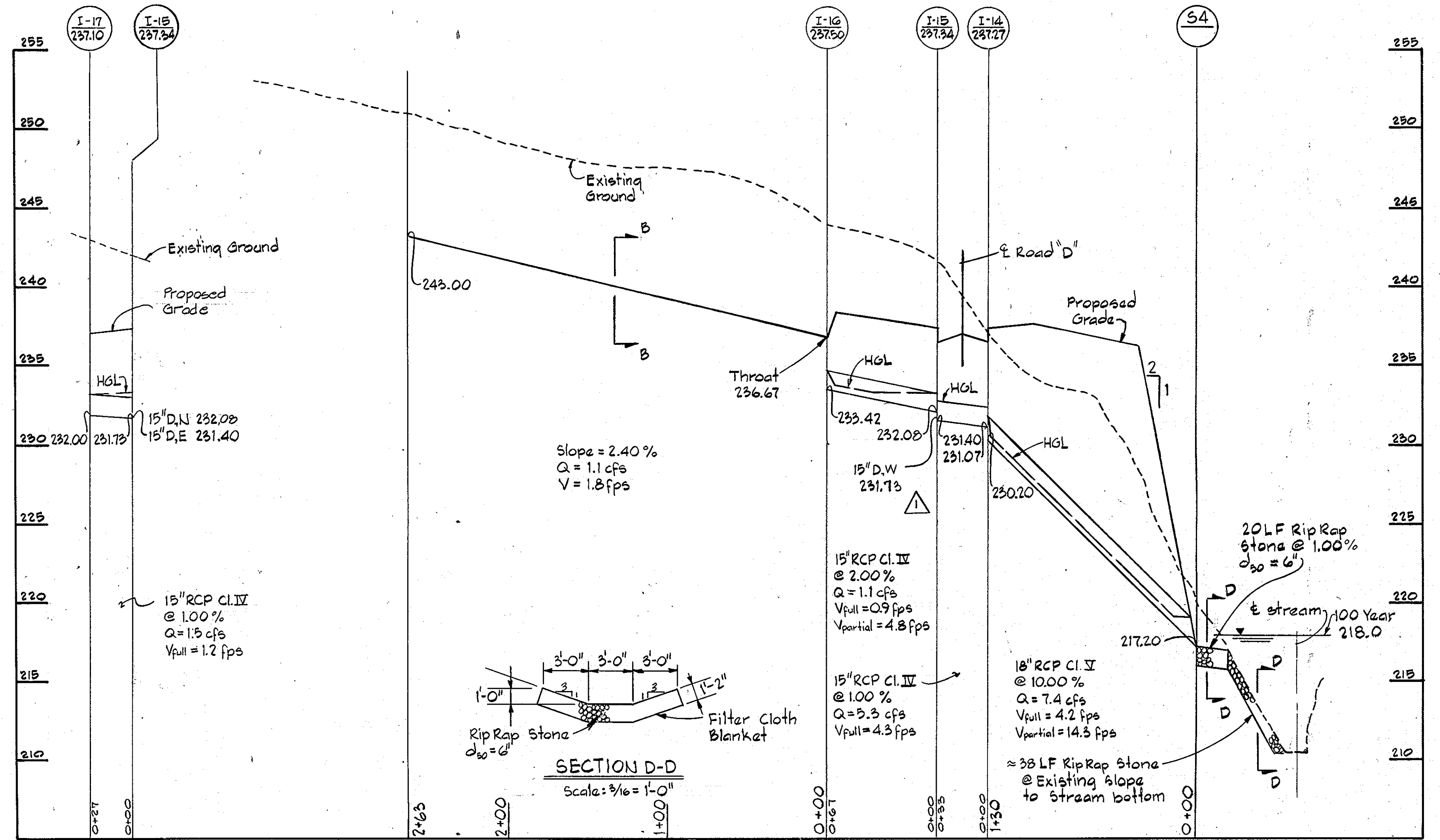
SECTION C-C
Scale: 3/16" = 1'-0"



FLARED END SECTION - OUTLET



SECTION X-X



PROFILE

Scale: Horz: 1" = 50'
Vert: 1" = 5'

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James P. Kelly 1-10-83
COUNTY HEALTH OFFICER
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William F. Newman 1-7-83
DIRECTOR
William F. Newman 1-7-83
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Donald J. Harp 1-13-83
PLANNING DIRECTOR
Arthur M. Newman 1-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

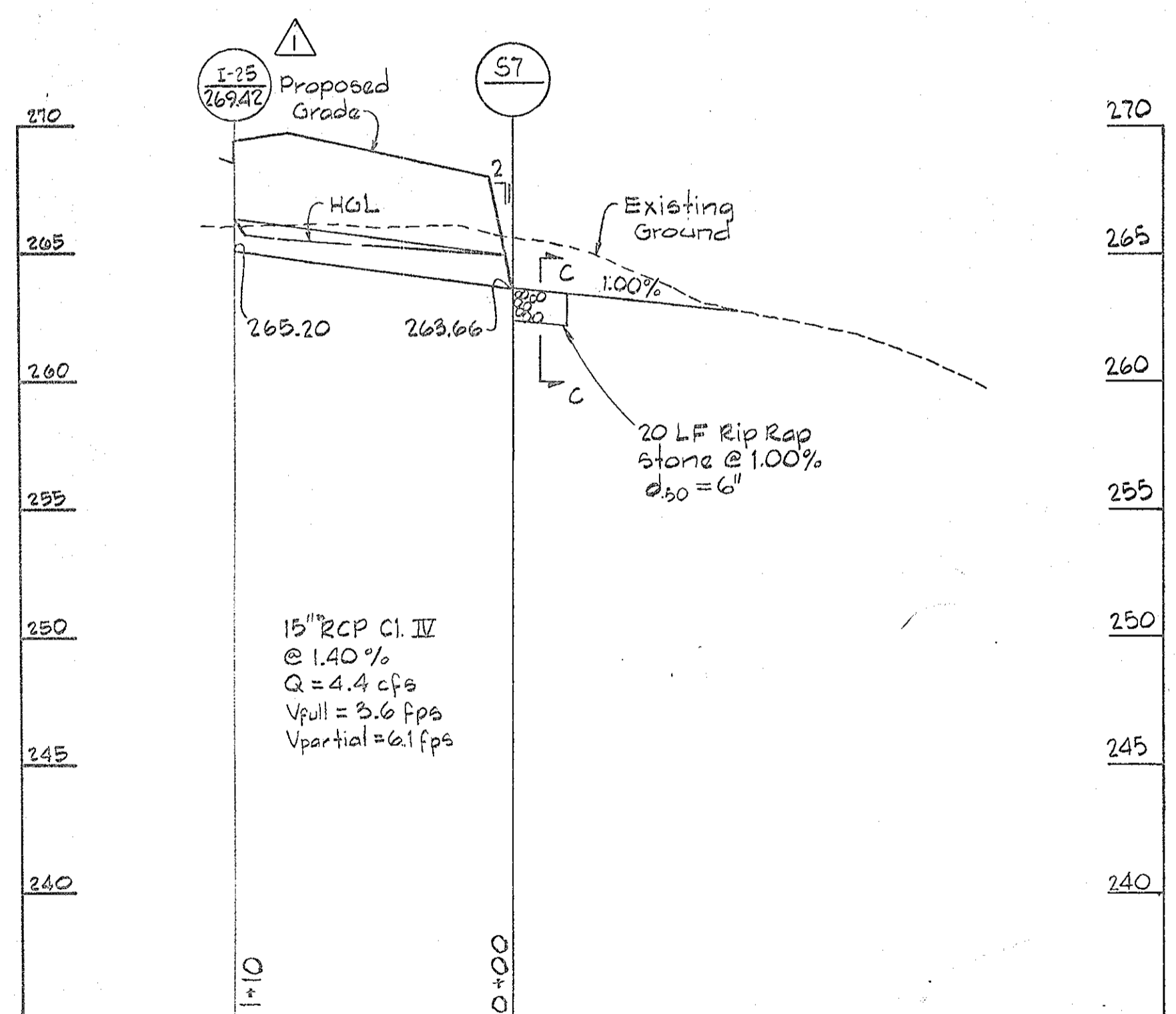
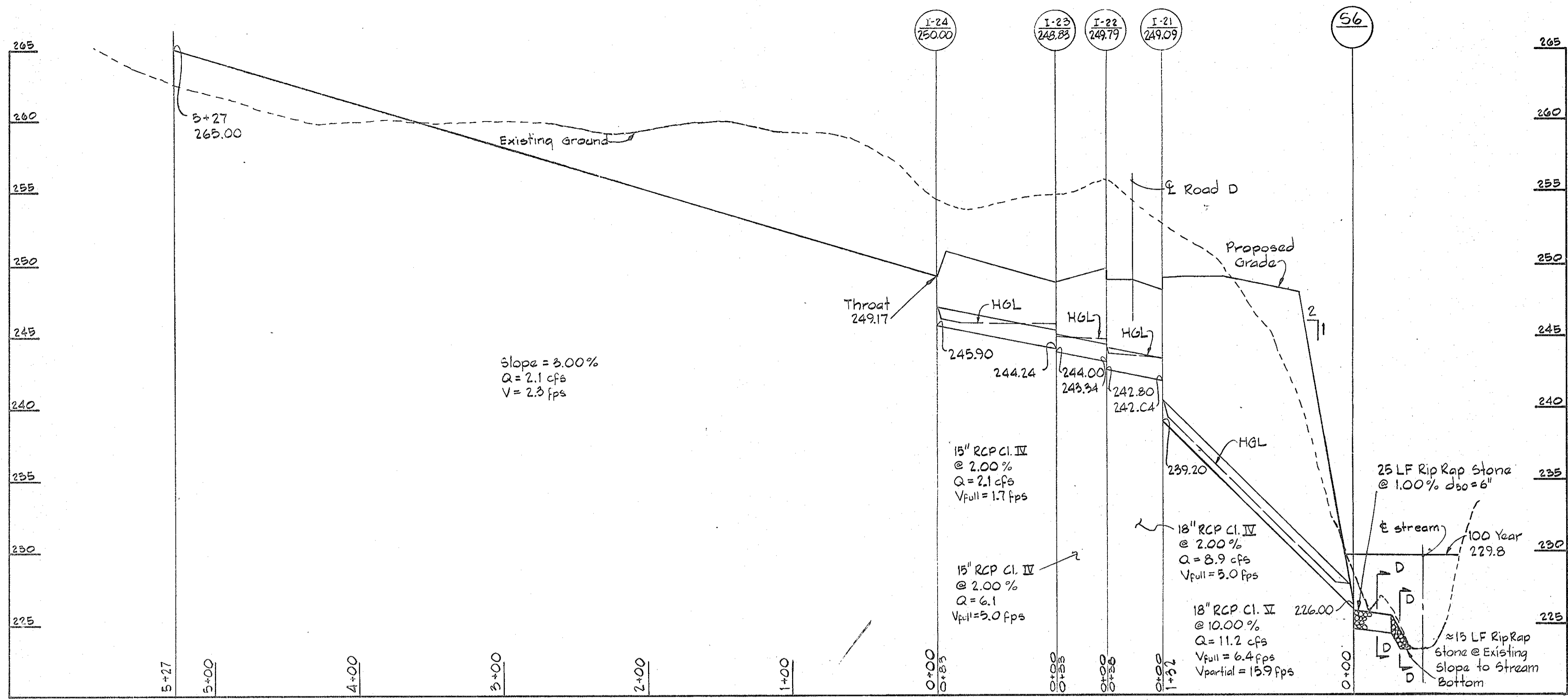
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
JMM

No.	Revisions	Date
1	Changed SD Elevation	3/21/83

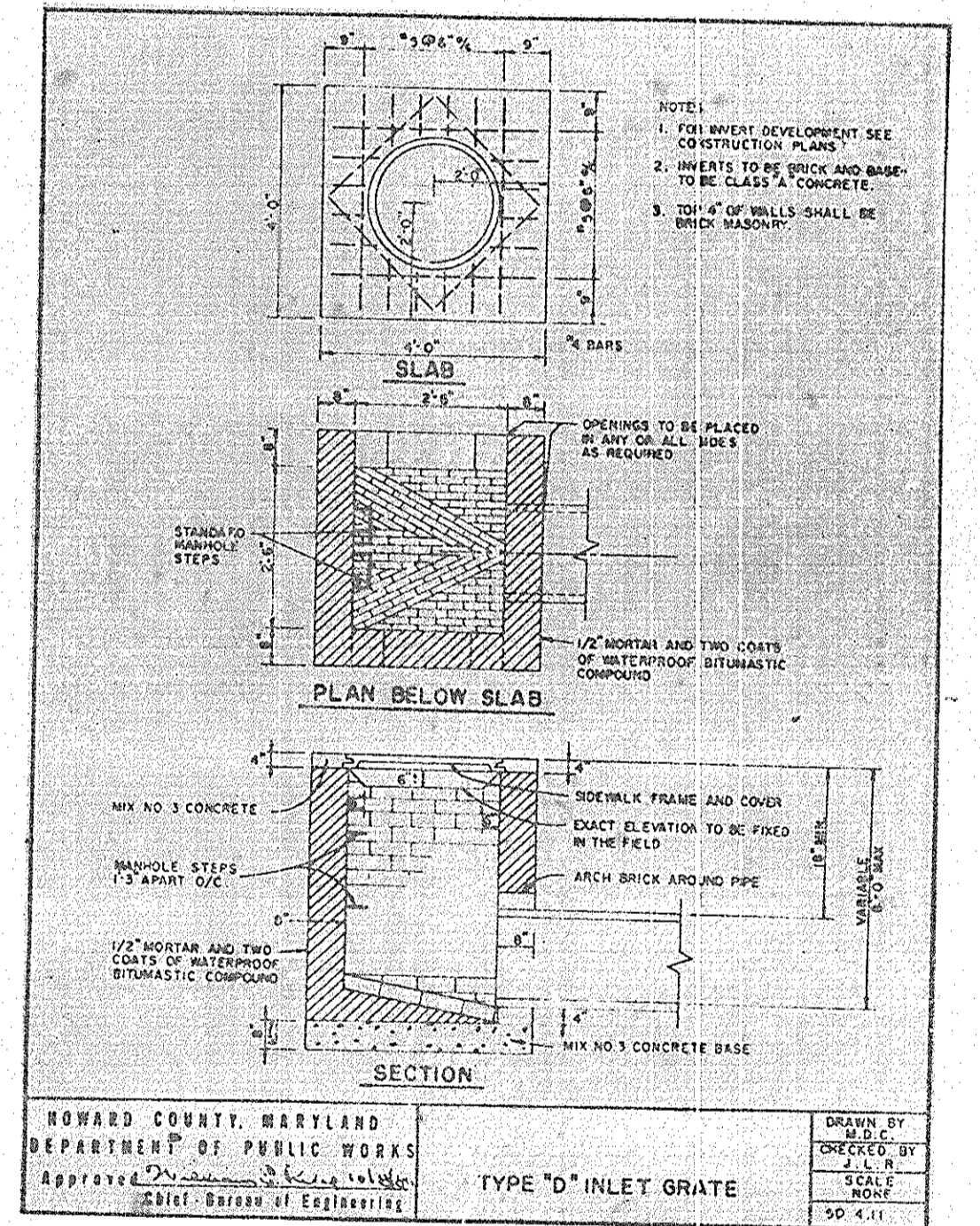
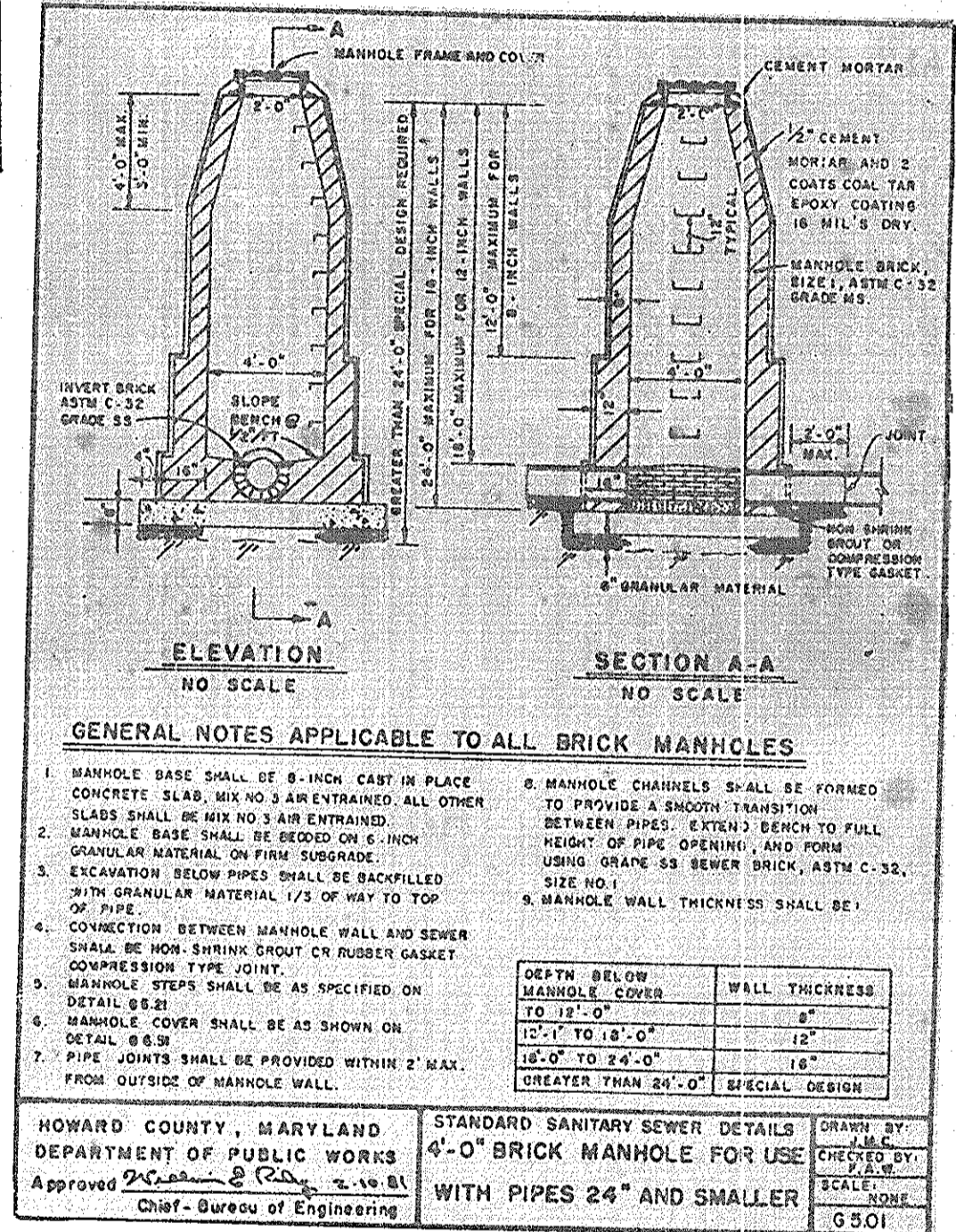
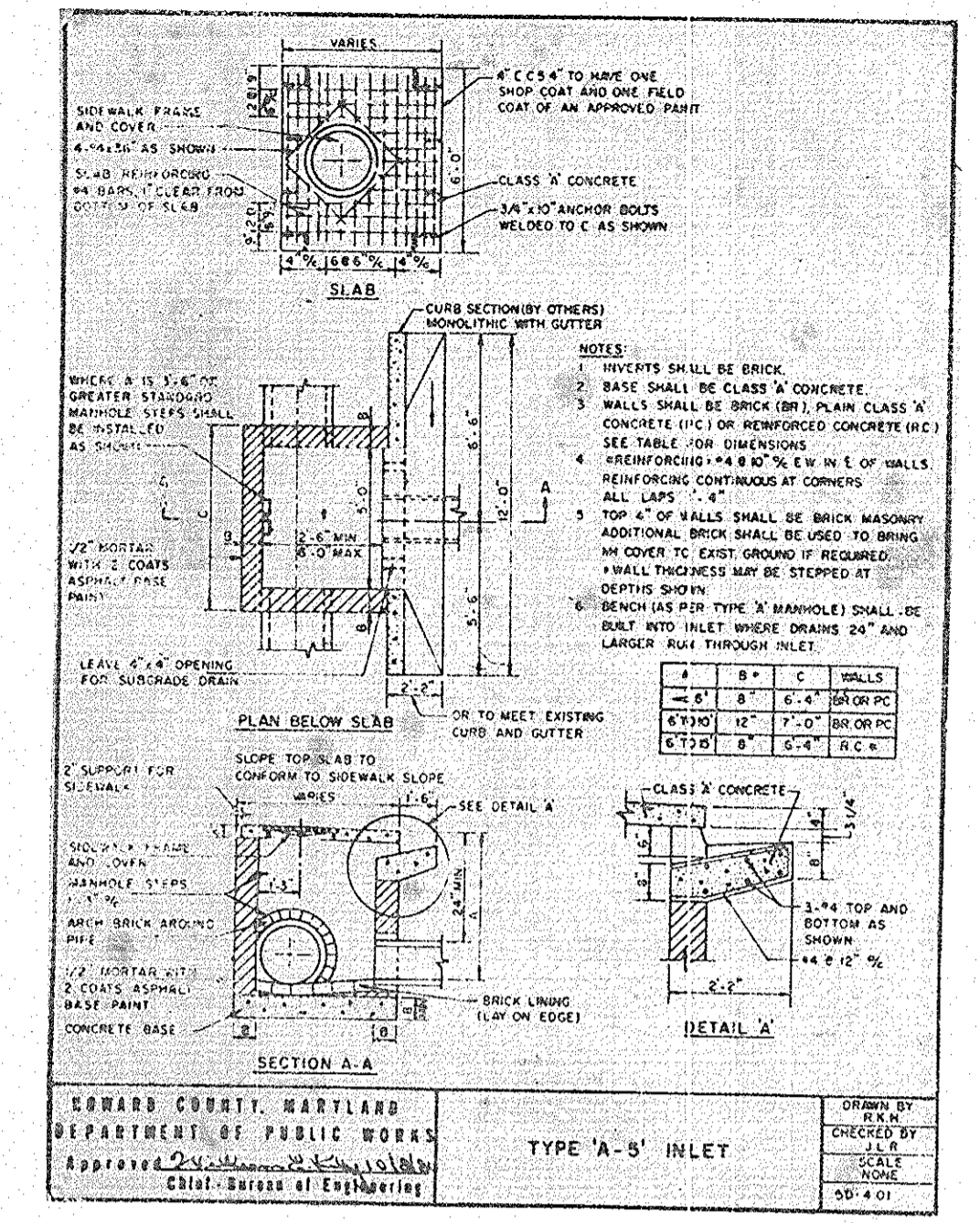
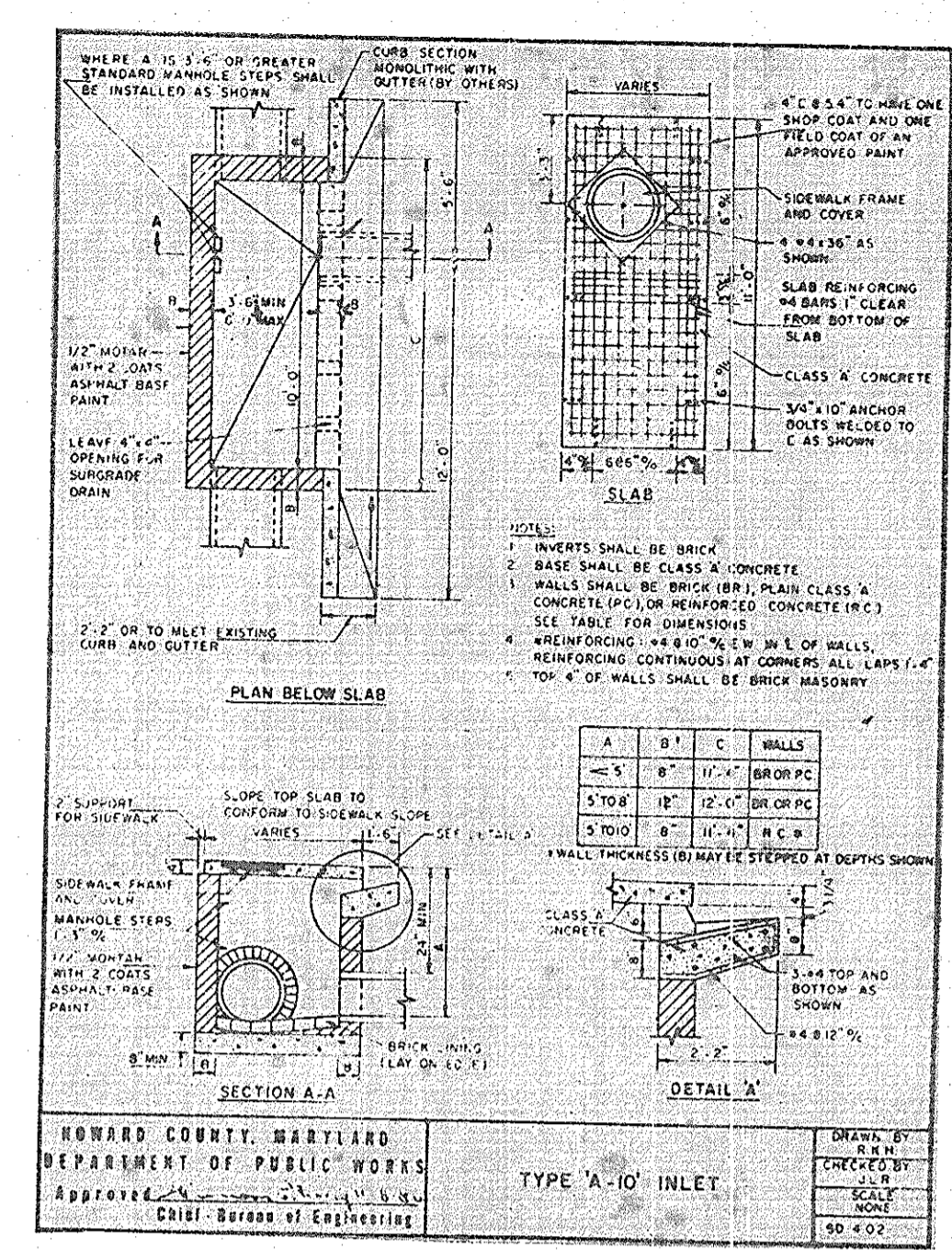
OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
STORM DRAIN AND SWALE PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
PARCEL B
DATE: 4/28/82
SCALE: AS NOTED

SHEET
14
OF
25

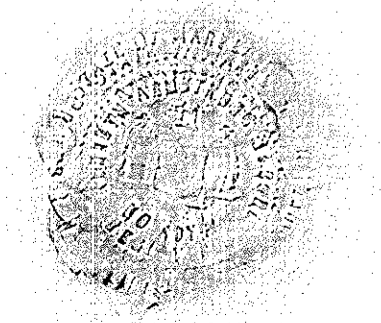


PROFILE
 Scale: Horiz.: 1"=50'
 Vert.: 1"=5'



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 10-6-82
 [Signature]

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord PE 1074



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 1-10-83
 COUNTY HEALTH OFFICER
 APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 1-7-83
 DIRECTOR
 [Signature] 1-7-83
 CHIEF, BUREAU OF ENGINEERING

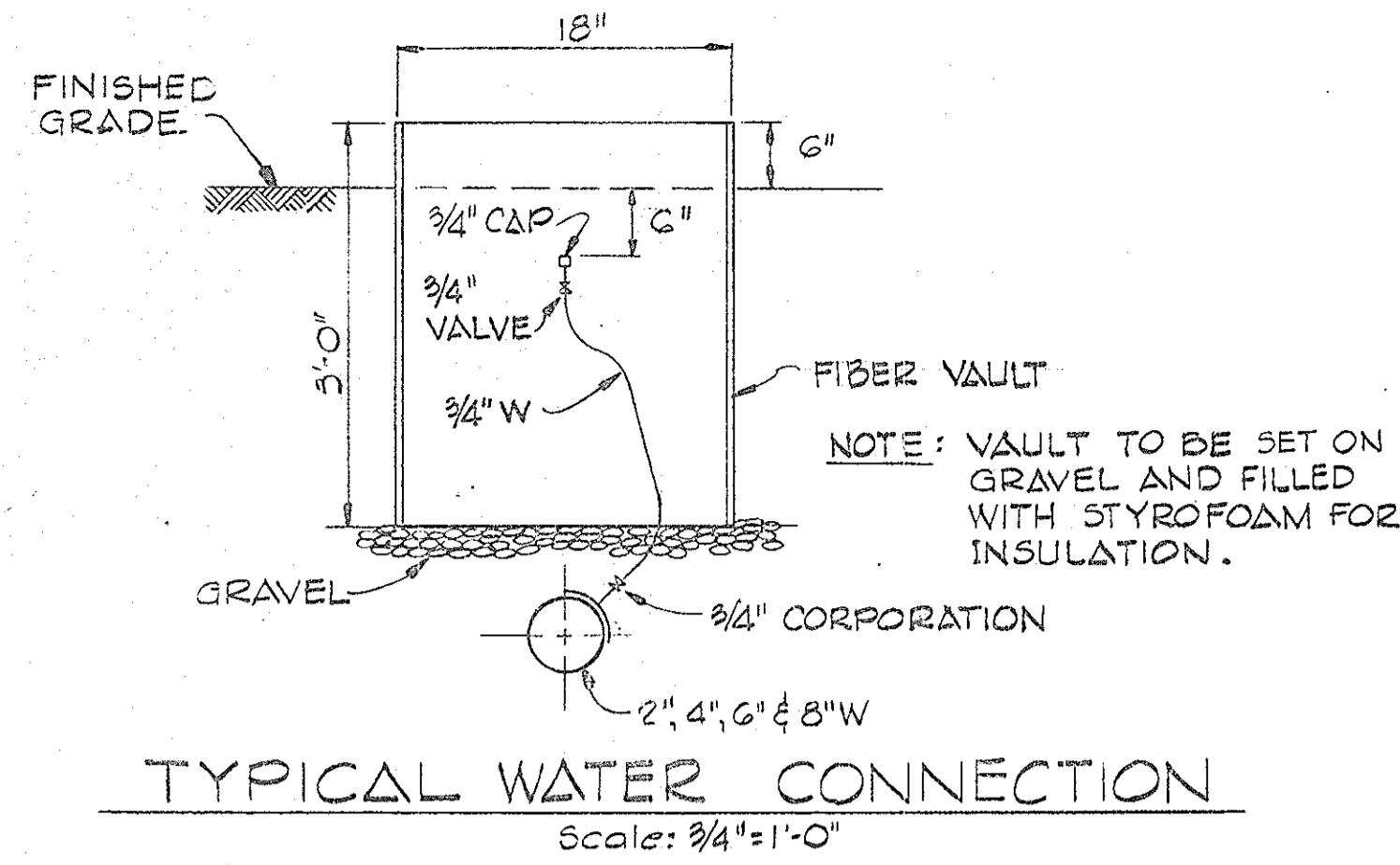
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 [Signature] 1-13-83
 PLANNING DIRECTOR
 [Signature] 1-13-83
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

No.	Revisions	Date
1	Changed Inlet Elevation	3/21/83

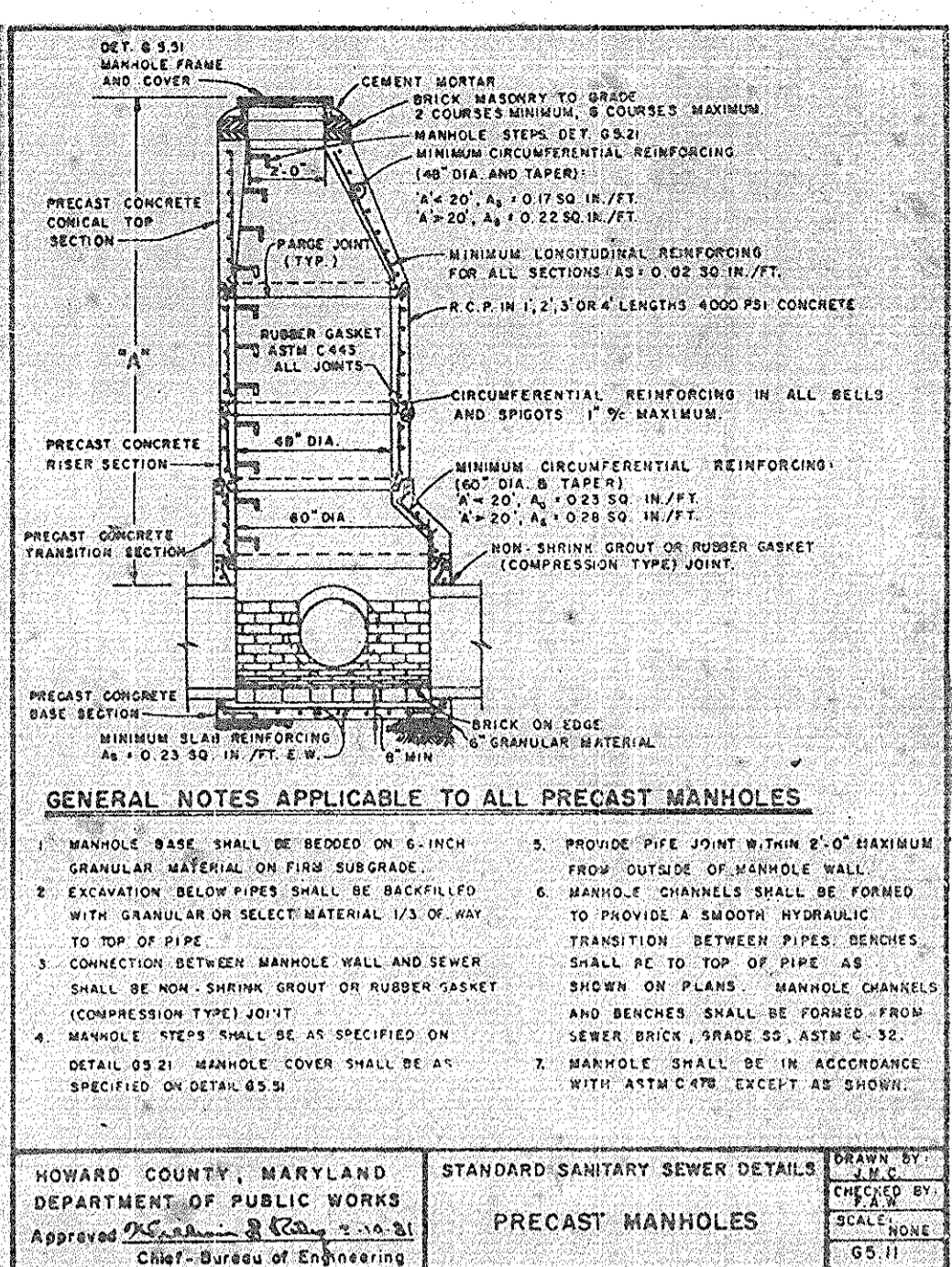
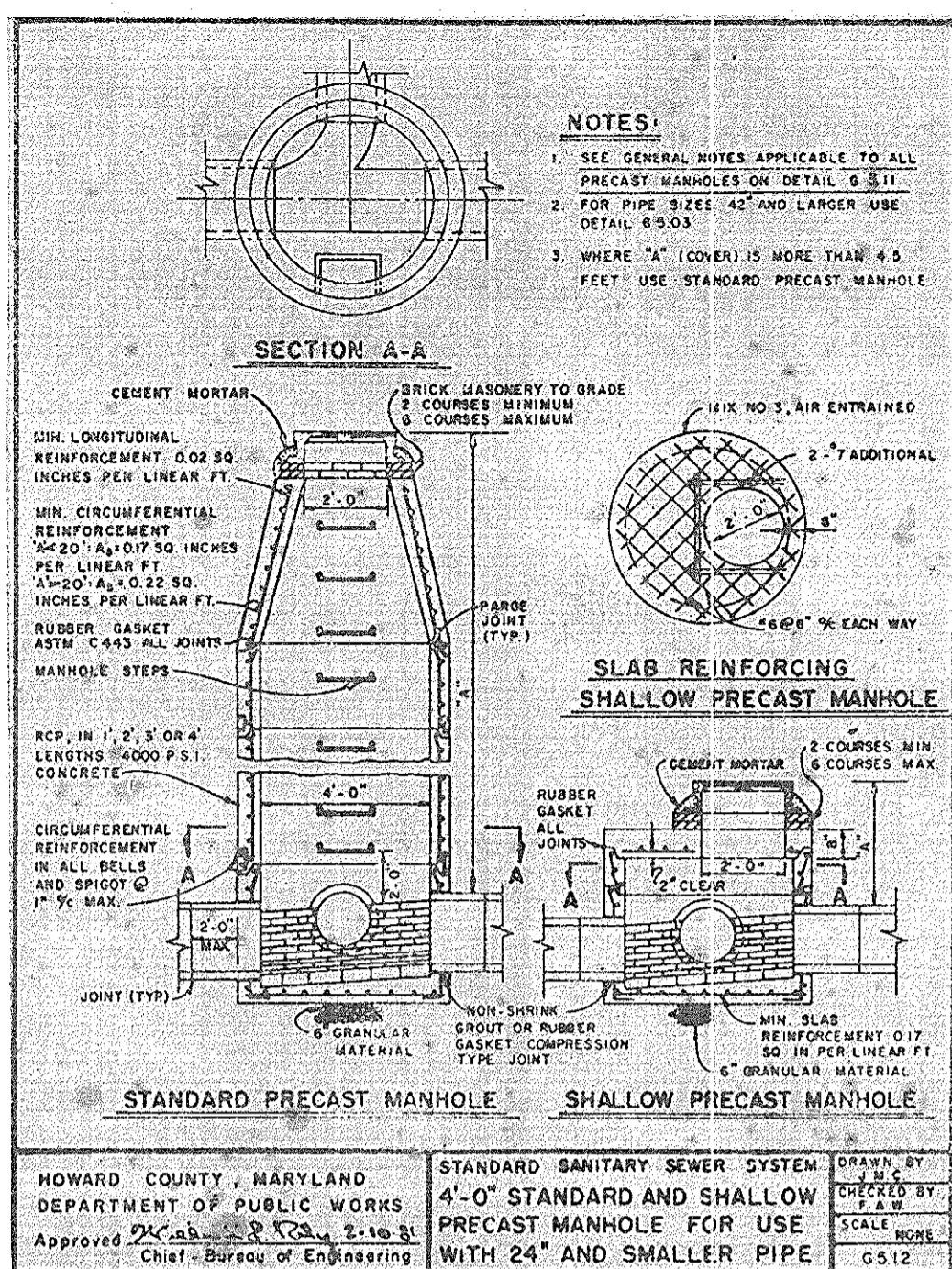
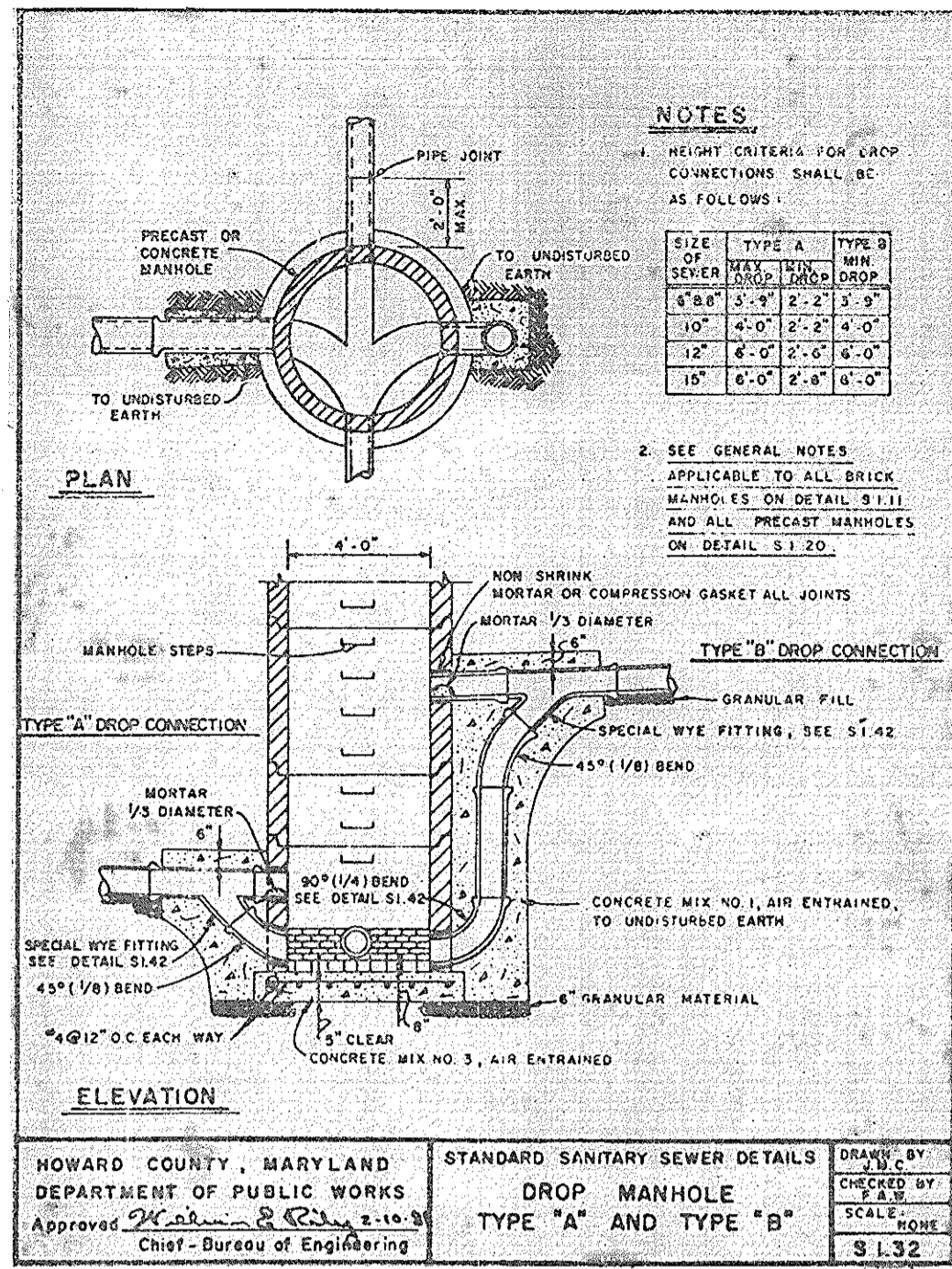
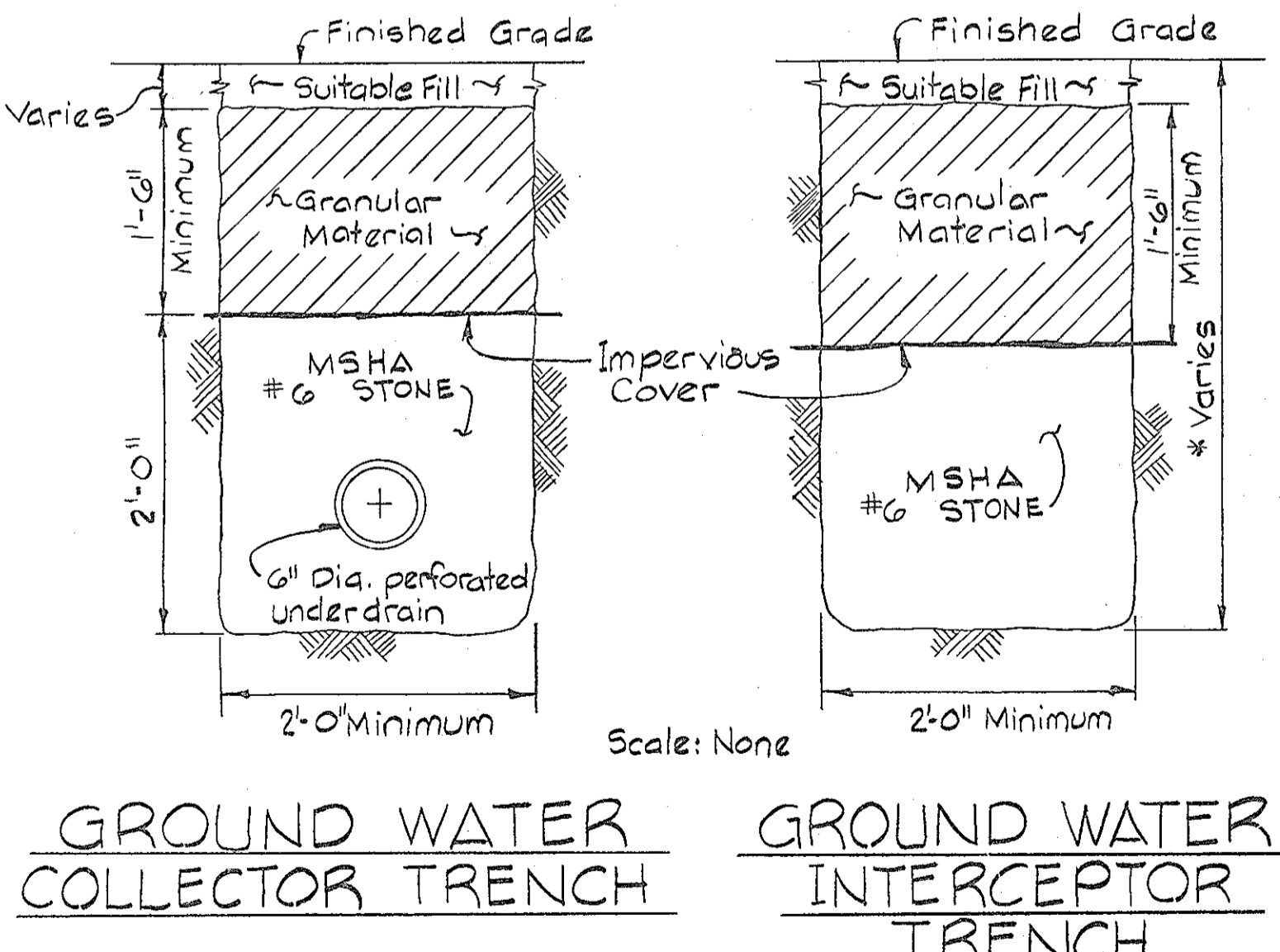
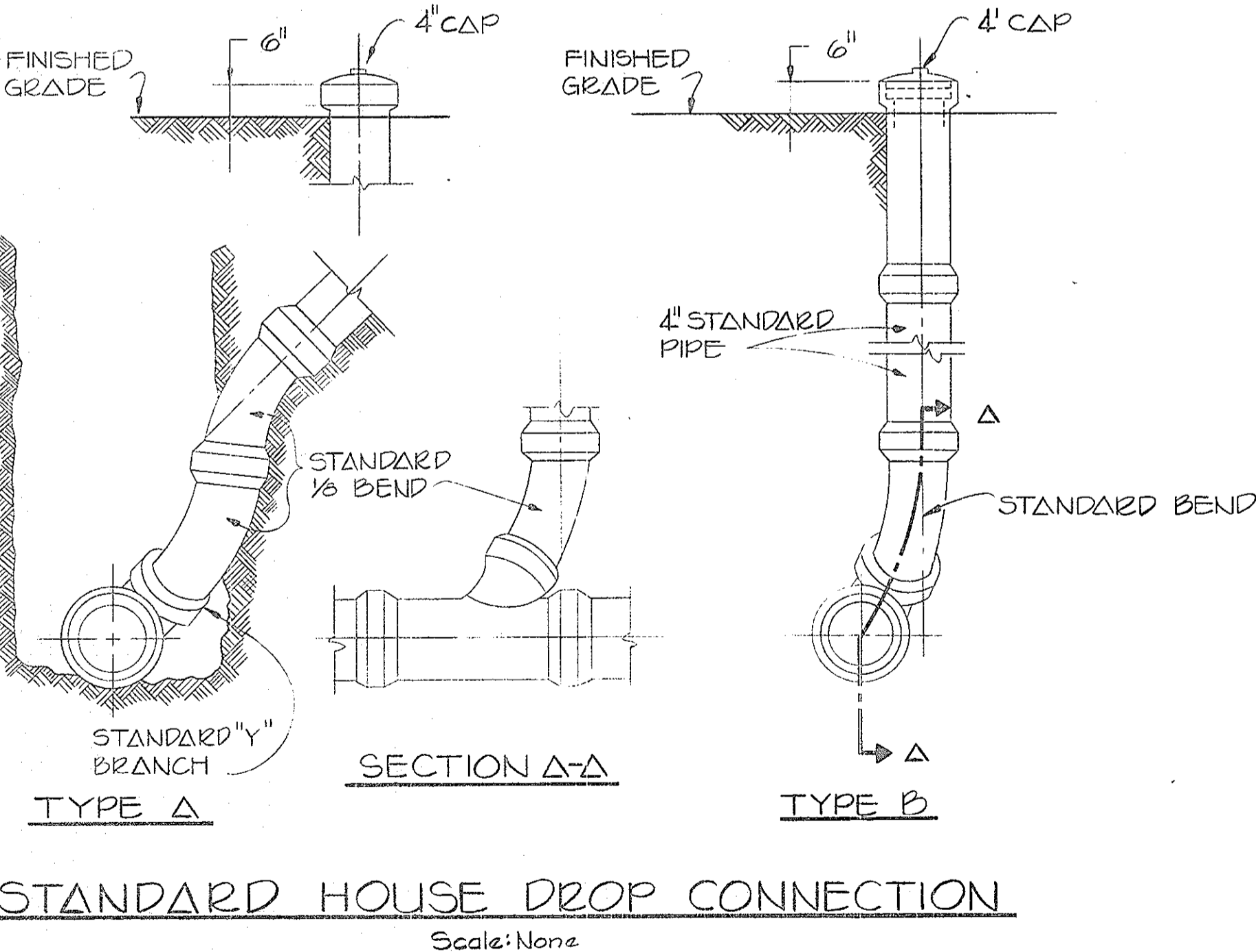
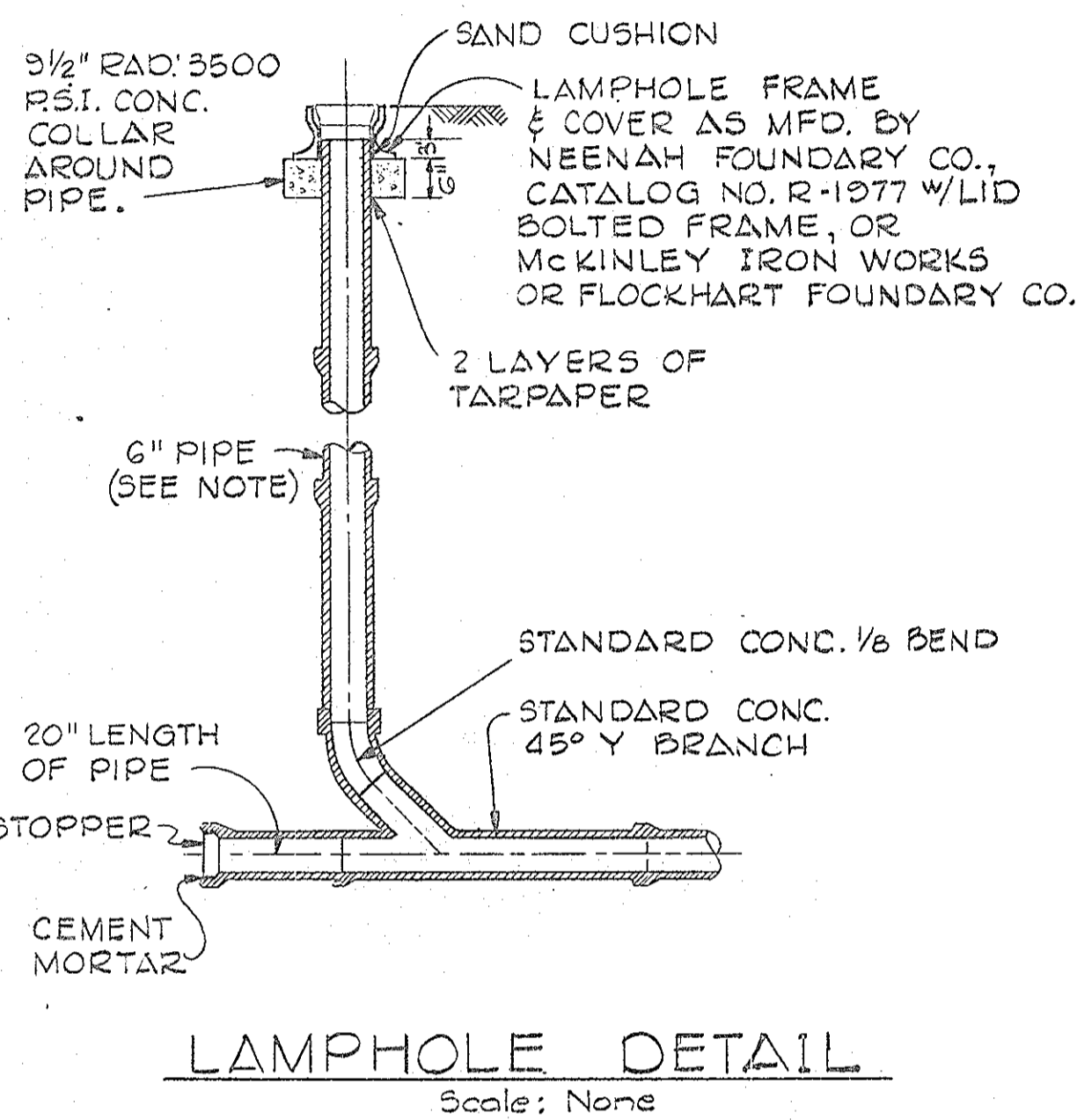
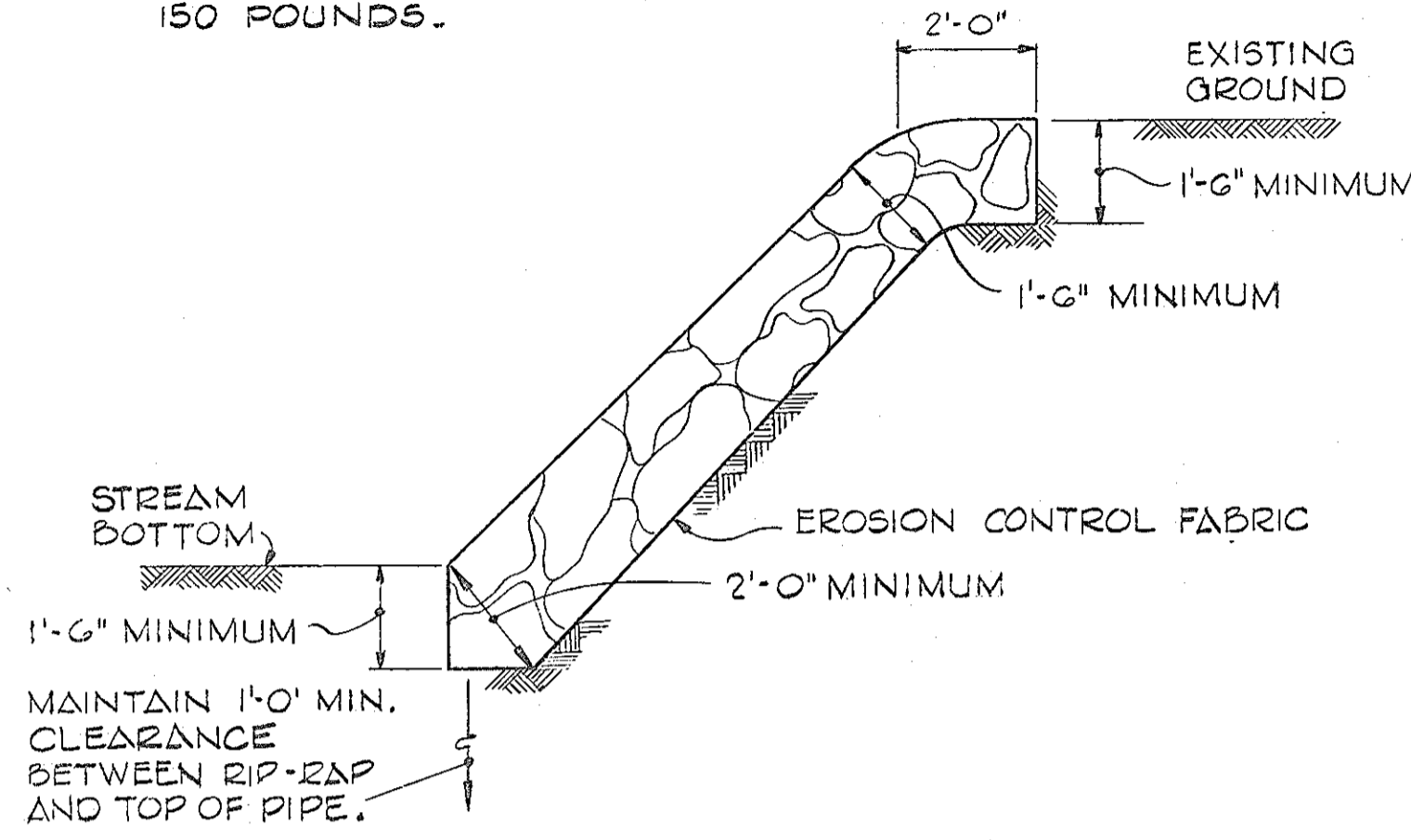
OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5092
 BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
 DEEP RUN PARK SECTION II
 STORM DRAIN AND SWALE PROFILES
 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37
 PARCEL B
 DATE: 4/28/82
 SCALE: AS NOTED

SHEET
 15
 OF
 25

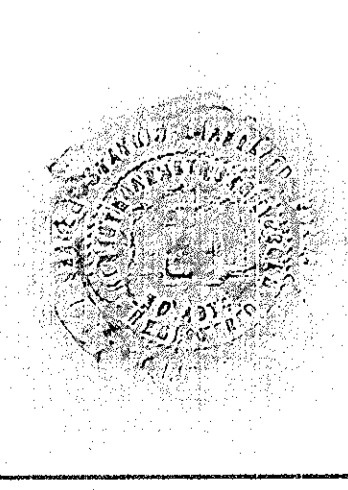


- NOTES:**
1. EROSION CONTROL FABRIC SHALL BE POLY FILTER-X AS MANUFACTURED BY CARTHAGE MILLS, INC. EROSION CONTROL DIVISION, 126 WEST 66TH STREET, CINCINNATI, OHIO; LAUREL EROSION CONTROL CLOTH AS MANUFACTURED BY LAUREL PLASTIC INC., MADISON, MAINE.
 2. RIP-RAP SHALL BE PLACED 6" MINIMUM EACH SIDE & SEWER OR AS SHOWN.
 3. RIP-RAP SHALL CONSIST OF DENSE ROCKS OF RANDOM SHAPES & SIZES, RESISTANT TO THE ACTION OF AIR AND WATER AND SUITABLE FOR BANK PROTECTION. ALL ROCKS SHALL WEIGH A MINIMUM OF 150 POUNDS.



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
KENNETH A. MCCORD PE 1074



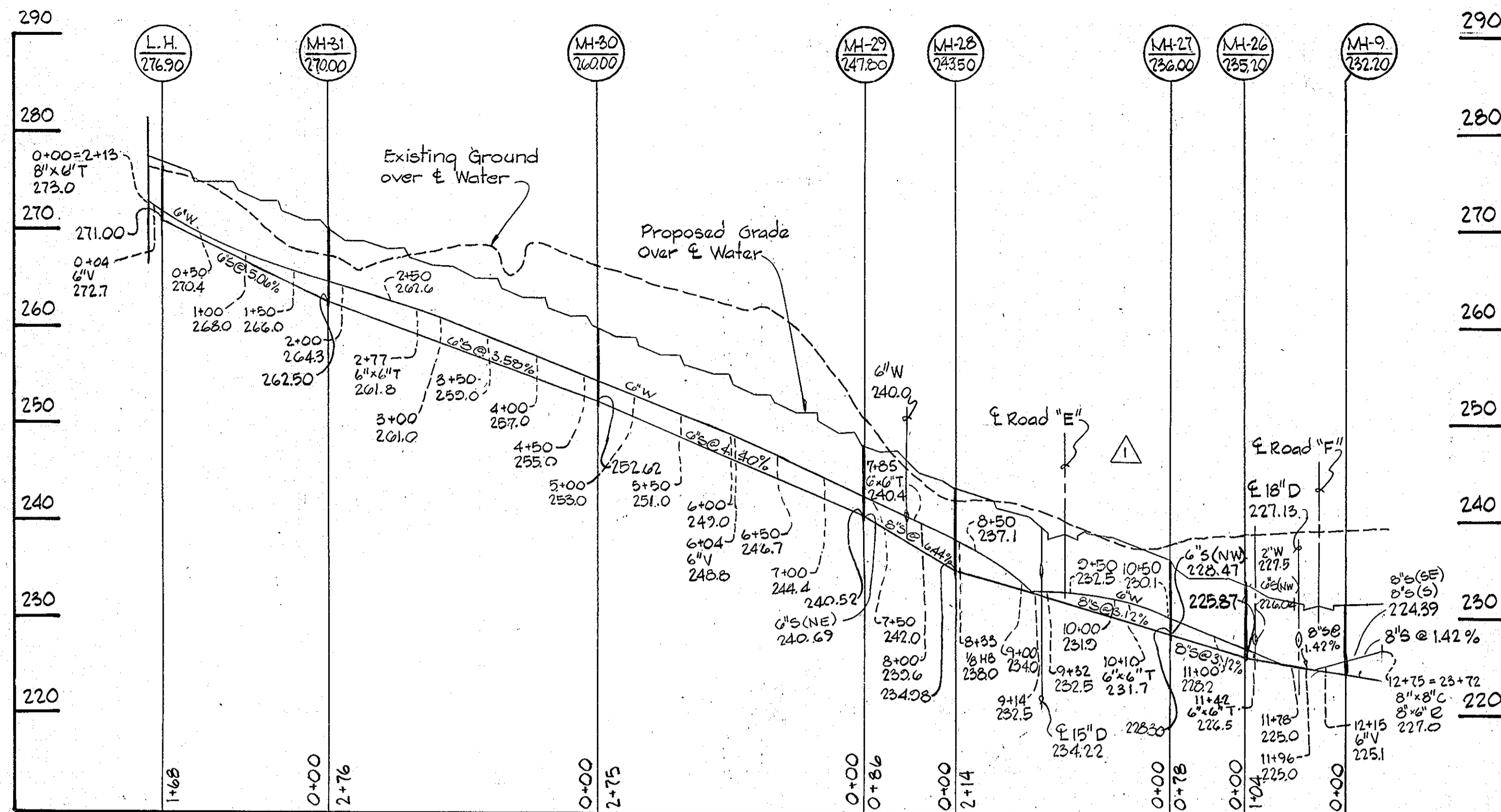
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
JAMES M. DEWITT, M.D. D.C. P.E. COUNTY HEALTH OFFICER 1-10-83 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
MURRAY F. NEUMYR DIRECTOR 1-7-83 DATE
D. SCHEINER S. RILEY CHIEF, BUREAU OF ENGINEERING 1-7-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
D. J. HAMMILL PLANNING DIRECTOR 1-13-83 DATE
D. J. HAMMILL CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

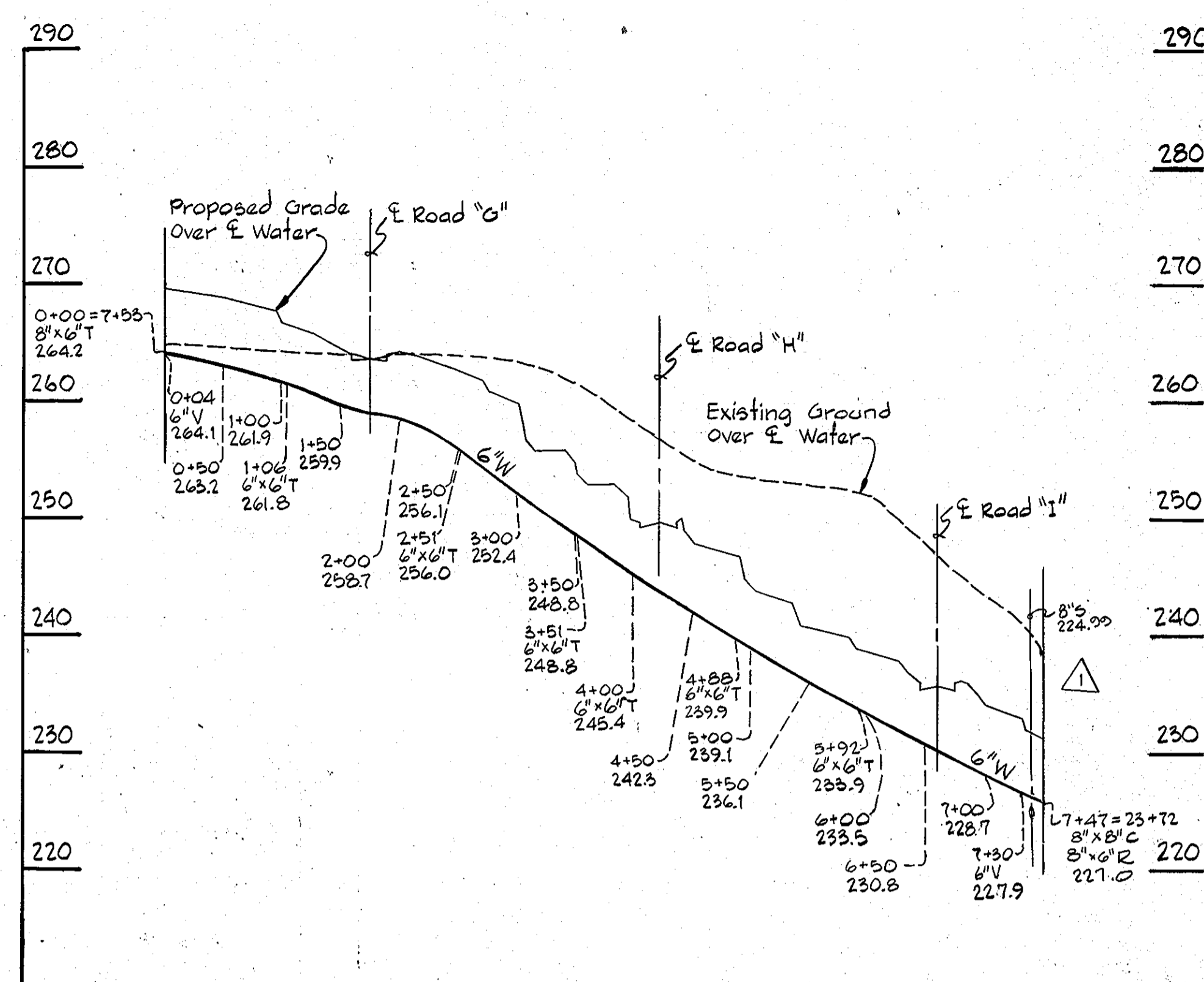
OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5092
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
WATER AND SEWER DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL B
DATE: 4/28/82
SCALE: AS NOTED

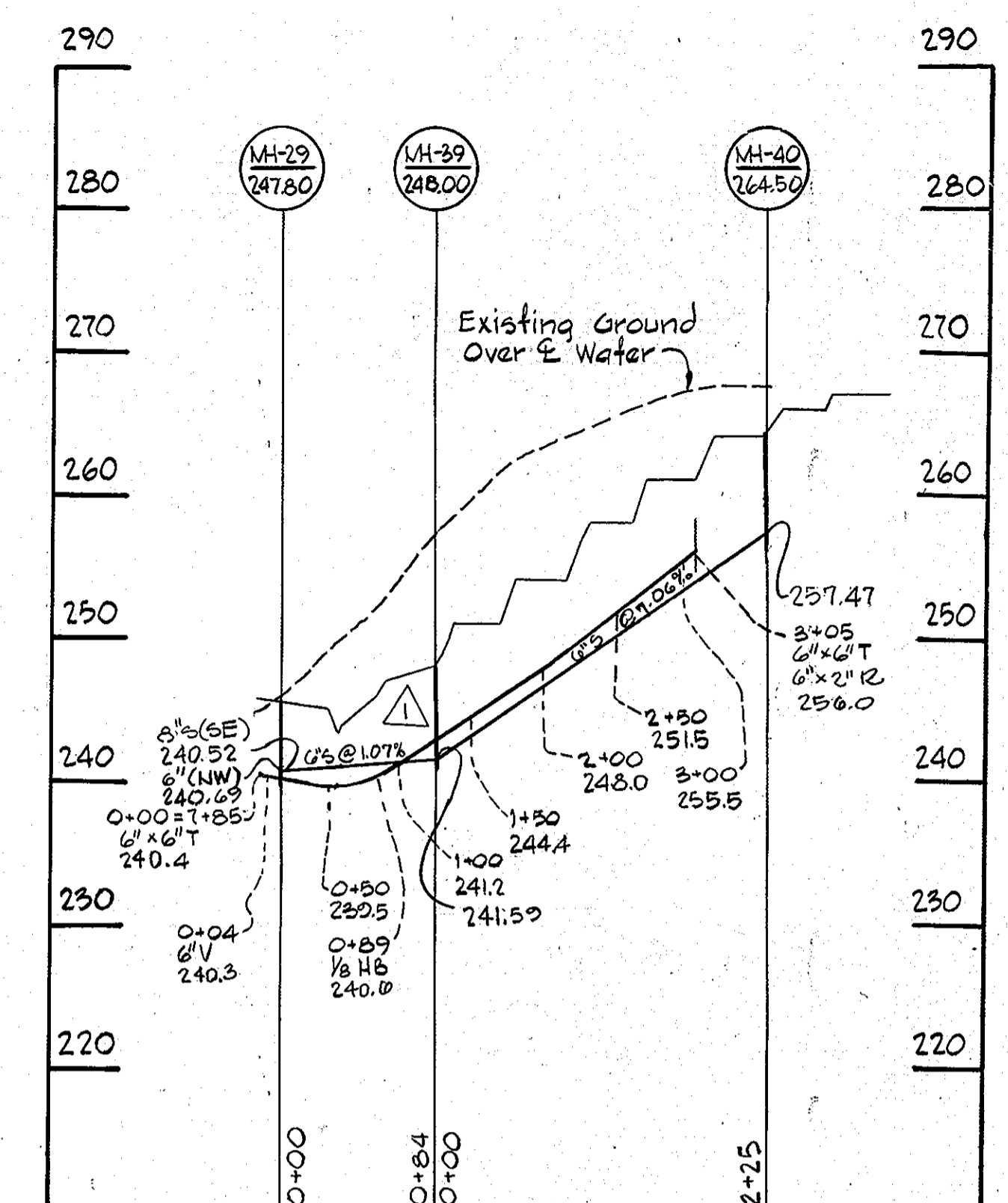
SHEET 16 OF 25



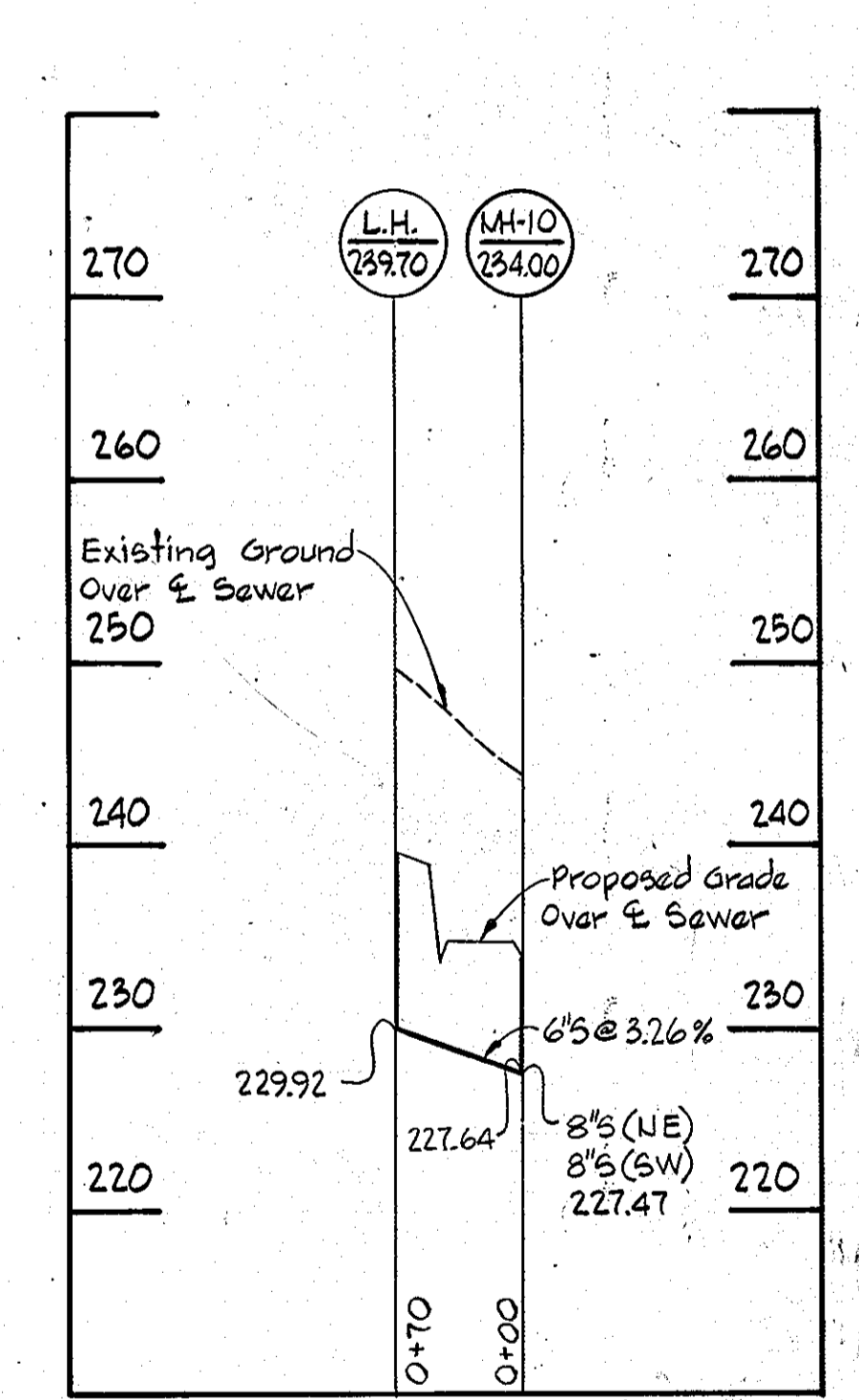
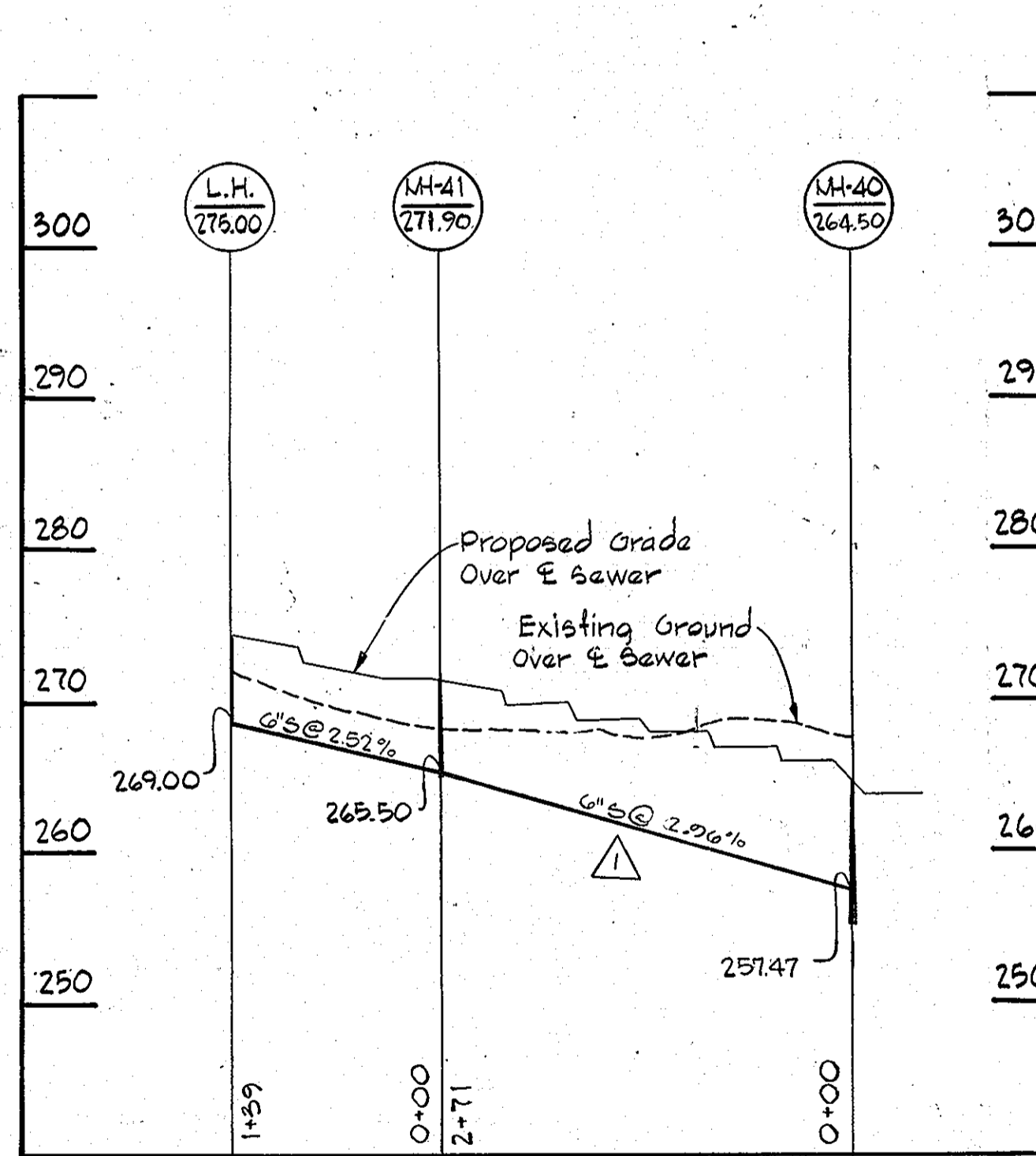
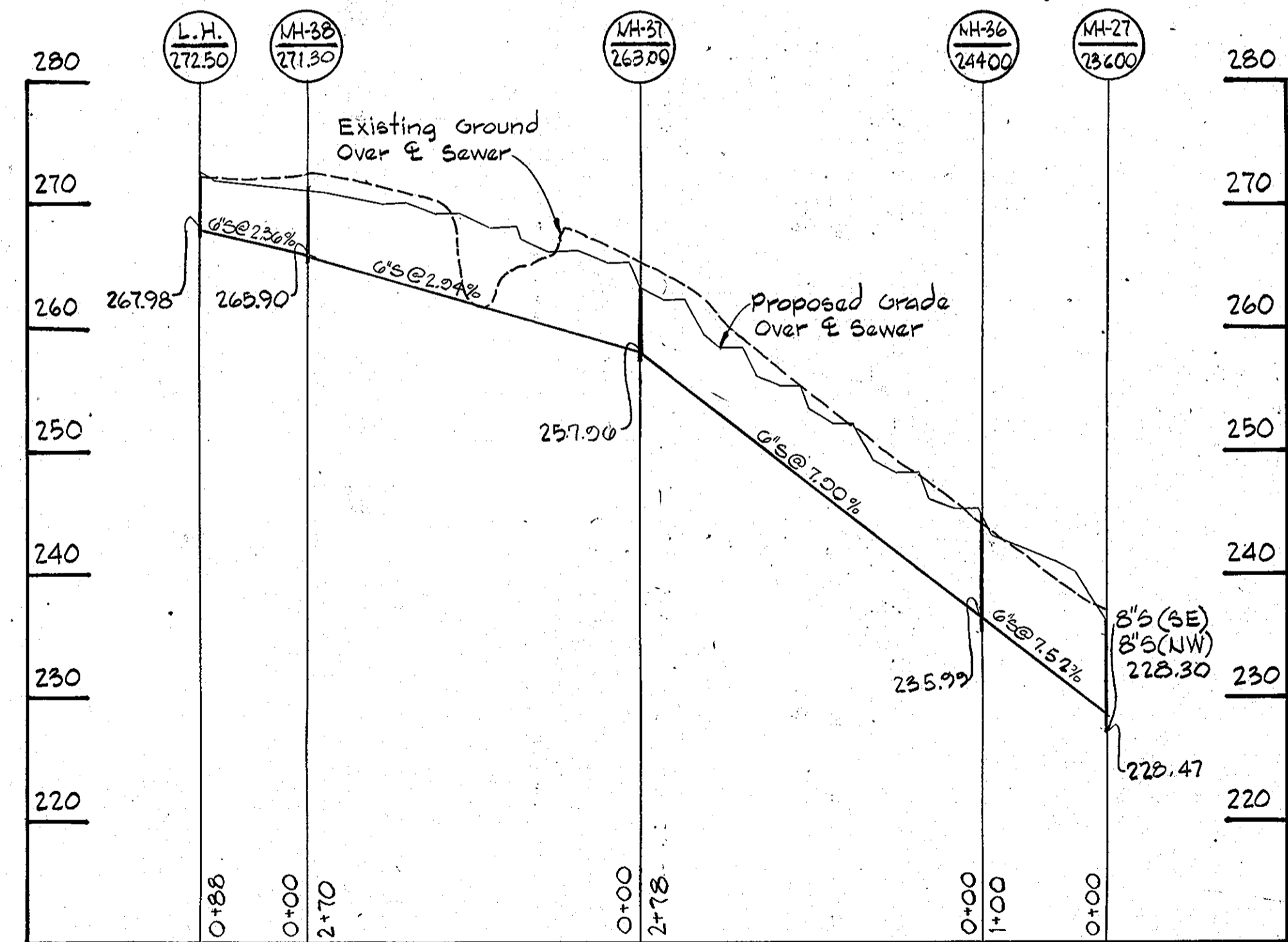
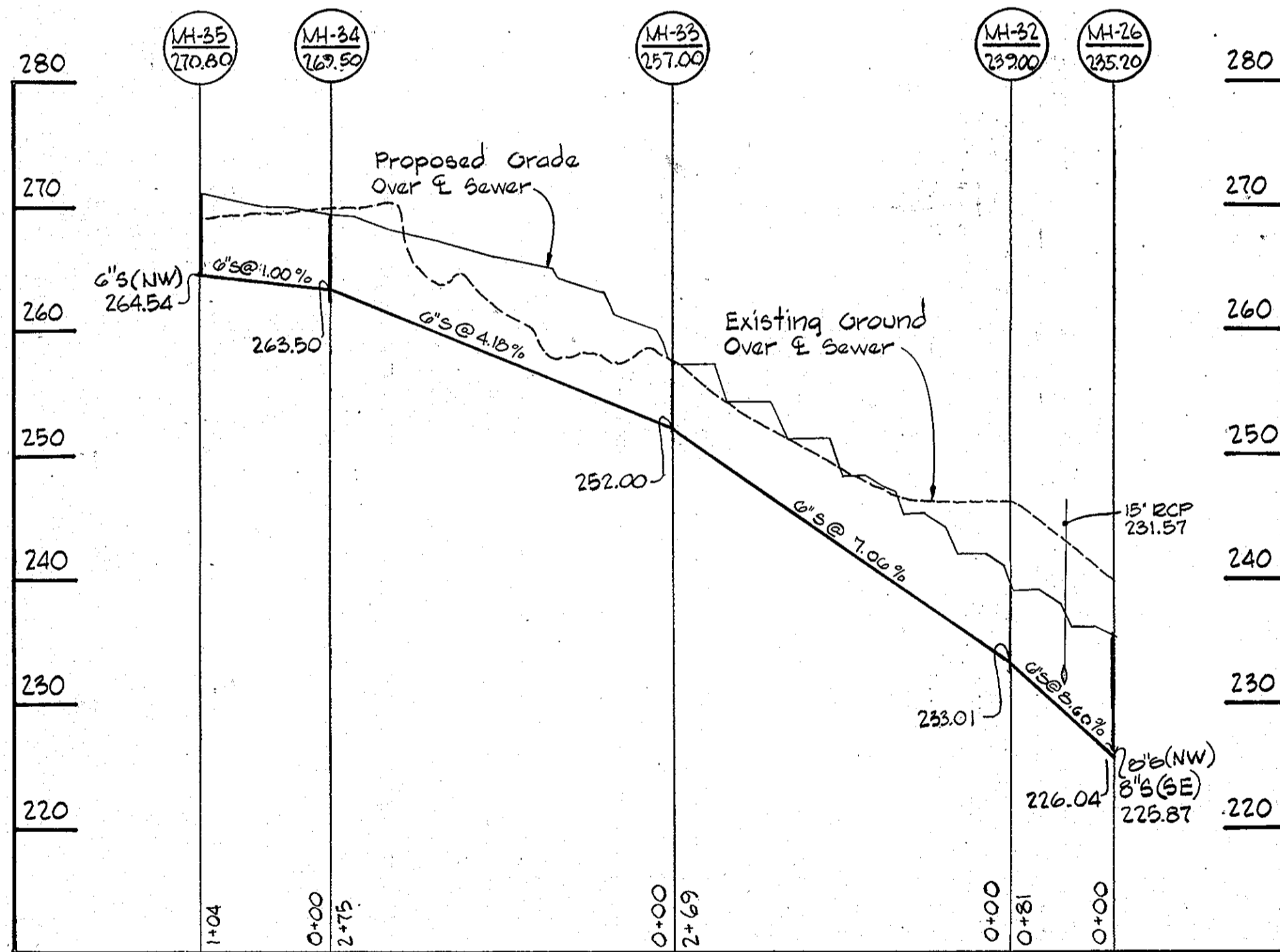
RIGHT ROAD "D"



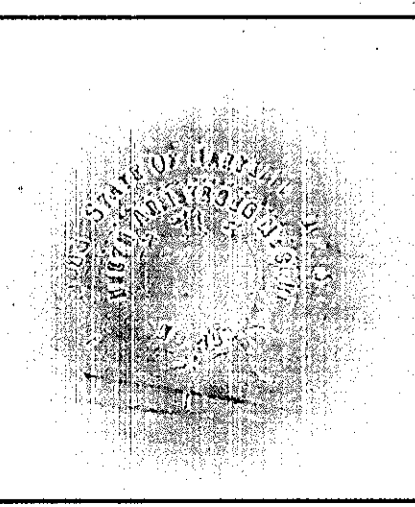
LEFT ROAD "F"



RIGHT ROAD "E"



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Jerry M. Boyd, M.D., P.E. 1-10-83 DATE
COUNTY HEALTH OFFICER
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. Nemmer 1-7-83 DATE
DIRECTOR
W. J. ... 1-7-83 DATE
CHIEF, BUREAU OF ENGINEERING

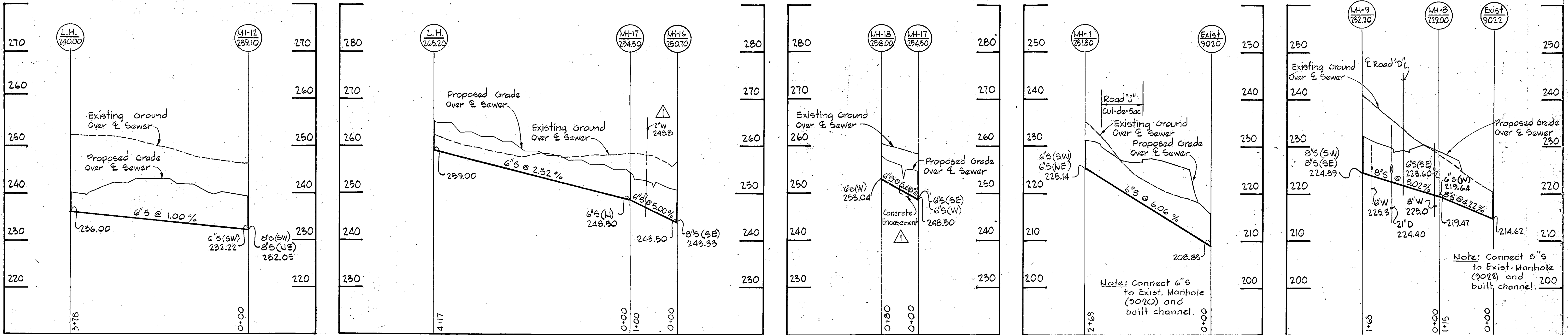
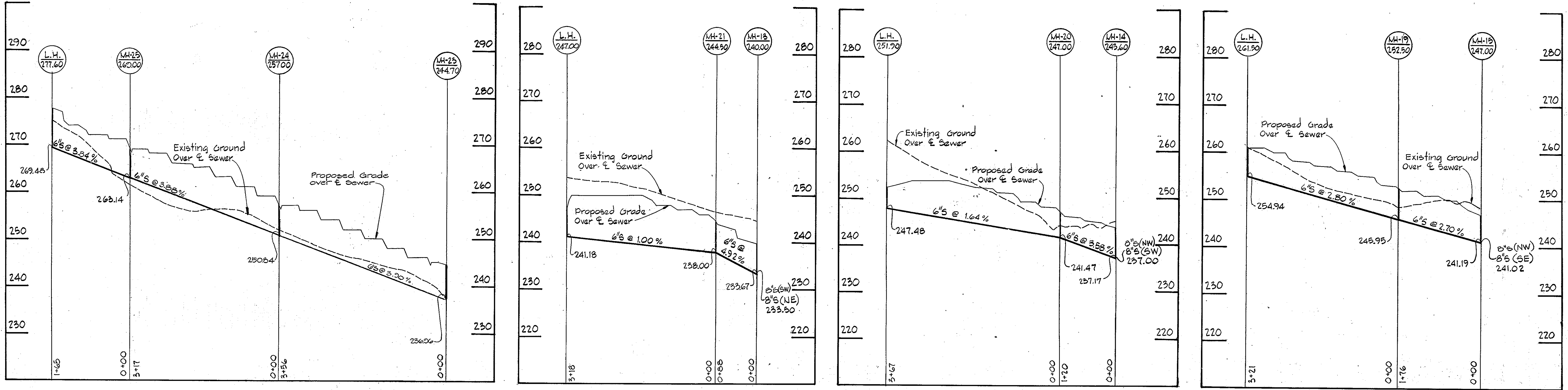
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James ... 1-13-83 DATE
PLANNING DIRECTOR
William ... 1-13-83 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
JMM

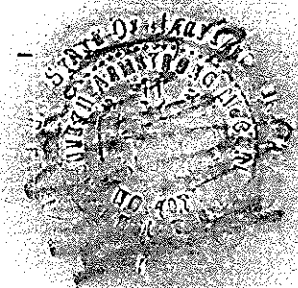
No	Revisions	Date
1	Changed slope percentages and added water & sewer crossings.	3/21/83

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
WATER AND SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 57
PARCEL B
DATE: 4/28/82
SCALE: Hor 1"=100'
Vert. 1"=10'
SHEET 17 OF 25



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James H. Boyd, M.D. Dir. 1-10-83 DATE
COUNTY HEALTH OFFICER
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. Nunn 1-7-83 DATE
DIRECTOR
Robert E. Riley 1-7-83 DATE
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Donald J. Herring 1-13-83 DATE
PLANNING DIRECTOR
Richard M. Marchman 1-13-83 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

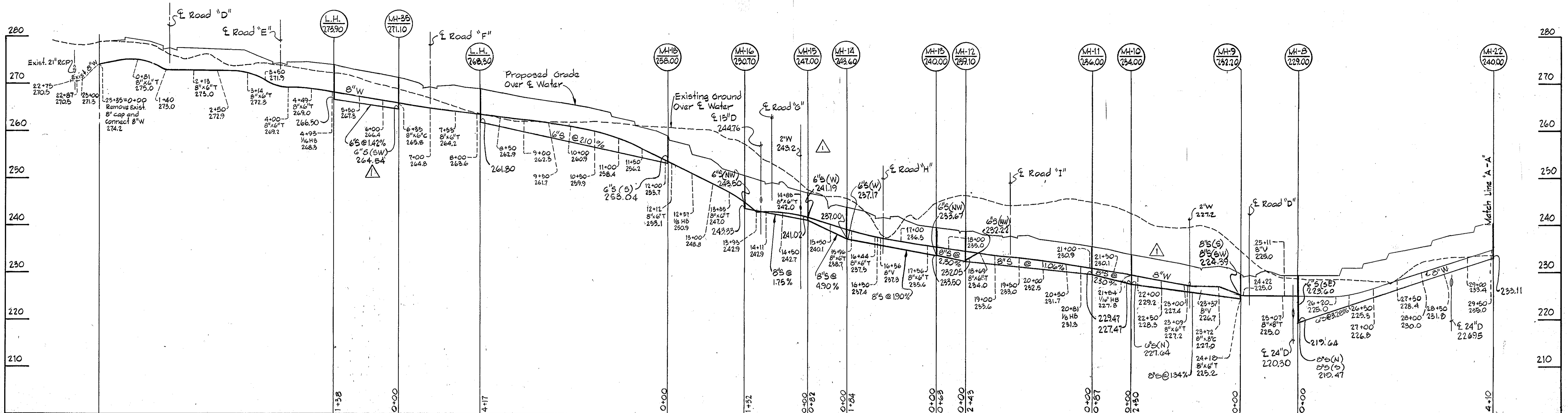
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-6-82
JMM

No.	Revisions	Date
1	Added Concrete Encasement and water crossing	3/21/83

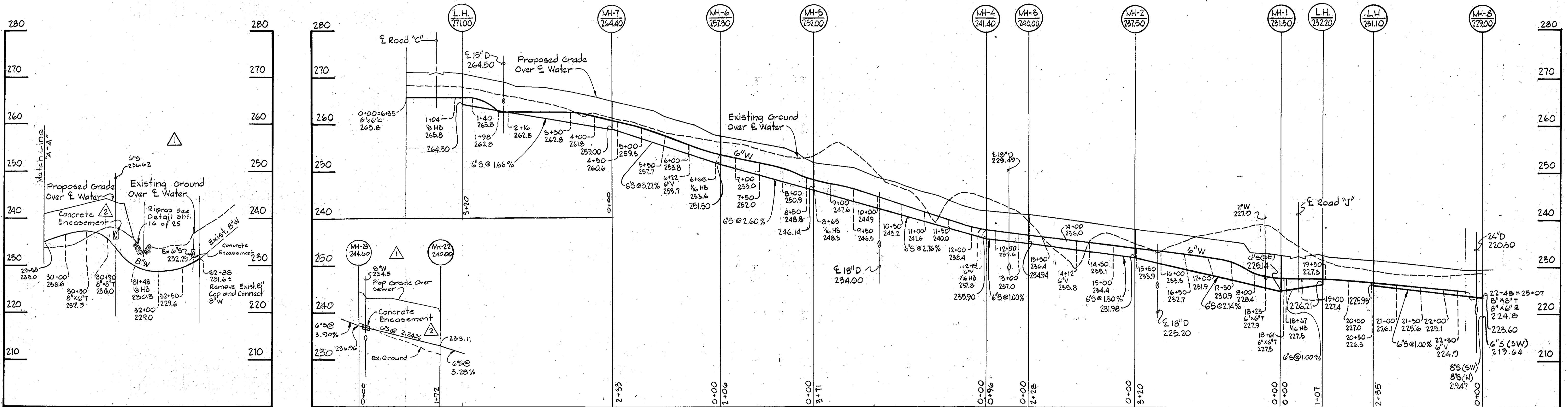
OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 8992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
WATER AND SEWER PROFILES
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
PARCEL B
DATE: 4/28/82
SCALE: Hor. 1"=100'
Vert. 1"=10'
SDP-82-126 7-2-82

SHEET
18
OF
25



RIGHT ROAD "D"



LEFT ROAD "D"

Note: For sewers crossing over water mains, protection shall be in the form of Bell Joint Clamp-style 60 as manufactured by Dresser Industries or approved equal for push-on type joints; Bell-Rock Sleeves-Style 126 by Dresser or approved equal for Mechanical Joints; or concrete encasement if sanitary sewer for a minimum of 10 feet each side of the crossing (all concrete encasement of sanitary sewers shall begin and end at a joint in the pipe). If a 20 foot length of water is centered under a sewer crossing where joints at each end are 10 feet from the sewer pipe then special protection is not required for either joint.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS

2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

Kenneth A. McCord
KENNETH A. MCCORD P.E. 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd, M.D., Dr. P.H.
COUNTY HEALTH OFFICER
DATE: 1-10-83

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Walter F. Nemej
DIRECTOR
DATE: 1-7-83
William S. Remy
CHIEF, BUREAU OF ENGINEERING
DATE: 1-7-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas J. Hamill
PLANNING DIRECTOR
DATE: 1-13-83

APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND

John M. ...
DATE: 1-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-6-82
JMM

No.	Revisions	Date
1	Added water, sewer & SD crossings. Changed water profile.	3/21/83
2	Add concrete encasement and note.	3/29/83

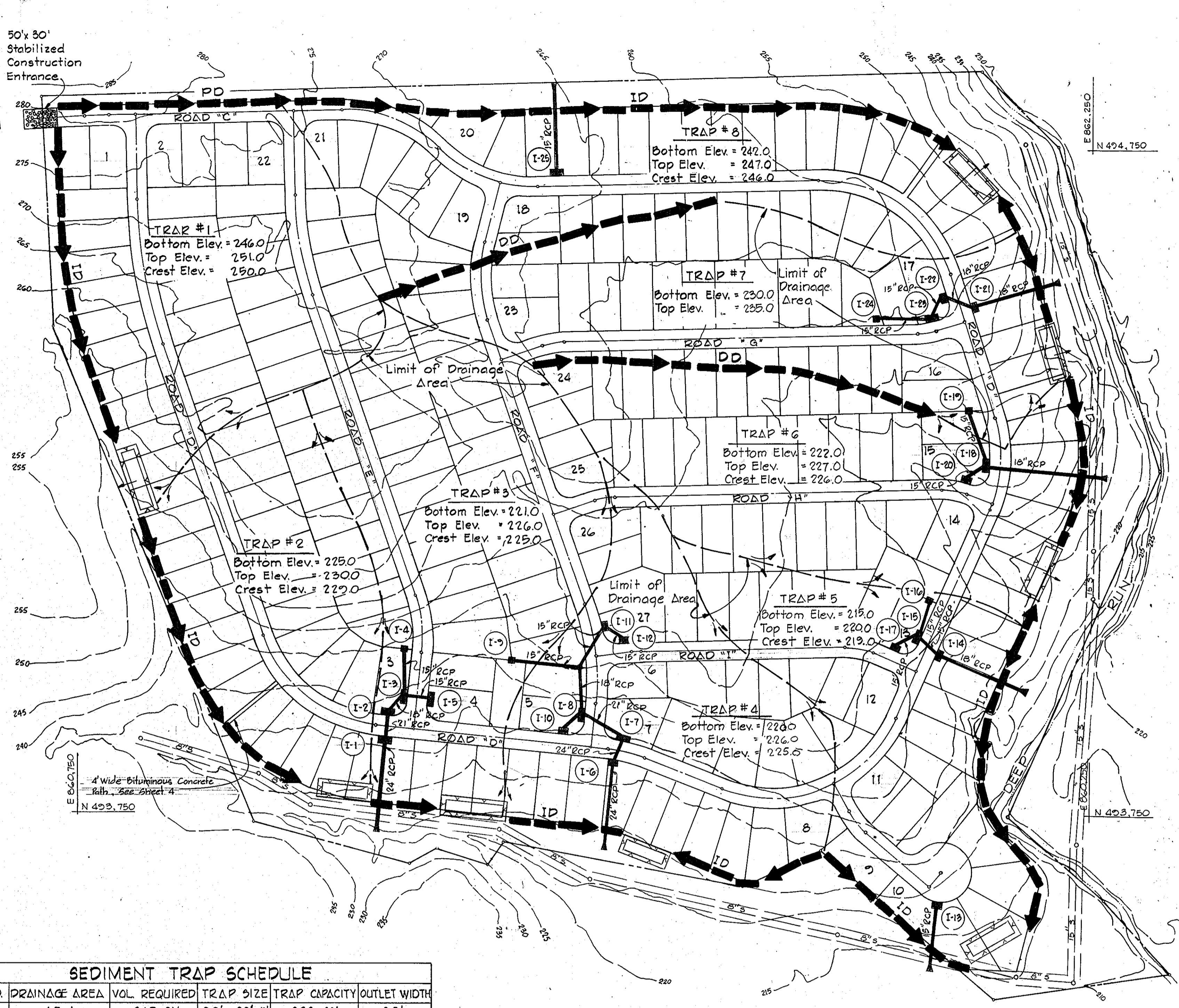
OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
WATER AND SEWER PROFILES

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 57
PARCEL B
DATE: 4/28/82

SCALE: Hor. 1"=100'
Vert. 1"=10'

SHEET
19
OF
25



SEEDING NOTES

- ALL SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED AND STABILIZED PRIOR TO ANY OTHER GRADING ON THE SITE.
- NO TEMPORARY SEDIMENT CONTROL STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.
- ALL AREAS EXCEPT SLOPES AS PER NOTE NO. 5 SHALL BE SEEDED AT THE RATE OF 80 lbs./ACRE: KENTUCKY 31 TALL FESCUE 60 lbs./ACRE AND KOREAN LESPEDEZA (SCARIFY AND INOCULATE) 20 lbs./ACRE. TOP LAYER OF SOIL SHALL BE LOOSENEED WITH "YORK RAKE" OR DISCING.
- SURFACE PREPARATION TO INCLUDE GROUND LIMESTONE OVER TOPSOIL SURFACE AREA AND COMMERCIAL FERTILIZER IN ACCORDANCE WITH SOIL TEST ANALYSIS. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE: DRAINAGE SWALES AND DITCHES SHALL BE MULCHED AND COVERED WITH A PERFORATED EROSION CONTROL BLANKET FOR THE FULL WIDTH OF THE SWALE OR DITCH. BLANKET SHALL BE JUTE MAT OVER STRAW OR EXCELSIOR MATTING. STABILIZATION OF SLOPES STEEPER THAN 3:1 SHALL BE PLANTED WITH KENTUCKY 31 TALL FESCUE 45 lb./ACRE AND CROWN VETCH (SCARIFY AND INOCULATE) 15 lb./ACRE INOCULANT FOR CROWN VETCH SHALL BE AT THE RATE OF 6.7 oz. POWDER OR LIQUID CULTURE PER 20 lbs. CROWN VETCH.
- APPLICATION METHODS: (HYDROSEED)
 - SEED, FERTILIZER, LIMESTONE AND MULCH MATERIAL SHALL BE PLACED BY THE FOLLOWING METHODS.
 - THE SEED AND FERTILIZER, OR THE SEED, FERTILIZER AND SUITABLE MULCH SHALL BE MIXED IN THE NEEDED AMOUNT OF WATER TO PRODUCE A SLURRY; APPLIED UNDER PRESSURE AT THE RATE SPECIFIED OR AS DIRECTED WITH HYDRAULIC EQUIPMENT APPROVED PRIOR TO USE.
 - WOOD CELLULOSE MULCH MAY BE APPLIED DURING OR AFTER SEEDING OPERATION. THE WOOD CELLULOSE MULCH IS TO BE INCORPORATED AS AN INTEGRAL PART OF THE SLURRY MIX, IT SHALL BE ADDED AFTER THE SEED AND FERTILIZER HAVE BEEN THOROUGHLY MIXED. LIME, WHEN APPLIED HYDRAULICALLY SHALL BE A SINGLE, SEPARATE OPERATION. WOOD CELLULOSE MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER ACRE.
 - ANY AREA INADEQUATELY COVERED SHALL BE RE-TREATED.

SEDIMENT CONTROL NOTES

- ALL SEDIMENT CONTROL PROCEDURES SHALL BE CARRIED OUT IN ACCORDANCE WITH APPROVED PLANS AND CRITERIA OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND ALSO THE U.S. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" (HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS").
- ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING IMMEDIATELY FOLLOWING ROUGH GRADING IN ACCORDANCE WITH PAGES 50.01 THROUGH 50.03 OF THE "STANDARDS AND SPECIFICATIONS".
- THESE SEDIMENT CONTROL DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF SEDIMENT CONTROL PRACTICES ONLY. FOR ALL OTHER PURPOSE CONSTRUCTION SEE THE "FINAL DEVELOPMENT PLANS".
- SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS OR AFTER RAINFALL.
- STABILIZATION OF THE PERIMETER DIKES WILL BE IN ACCORDANCE WITH PAGES 12.01 THROUGH 12.03 "STANDARDS AND SPECIFICATIONS".
- THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGE 16.03 OF "STANDARDS AND SPECIFICATIONS".
- STABILIZATION OF THE DIVERSION DIKES WILL BE IN ACCORDANCE WITH PAGE 10.01 THROUGH 10.03 "STANDARDS AND SPECIFICATIONS".
- STABILIZATION OF THE INTERCEPTOR DIKES WILL BE IN ACCORDANCE WITH PAGE 11.01 THROUGH 11.05 "STANDARDS AND SPECIFICATIONS".
- ALL STREETS SHOWN ON THIS PLAN ARE PRIVATE AND SHALL NOT BE DEDICATED FOR PUBLIC USE.

SEDIMENT CONTROL NOTES FOR PROJECT DEVELOPMENT

- SEDIMENT CONTROL DEVICES WILL BE MAINTAINED IN FUNCTIONING CONDITIONS UNTIL ALL AREAS ARE STABILIZED AND APPROVAL FOR REMOVAL HAS BEEN OBTAINED FROM THE SEDIMENT CONTROL INSPECTOR.

LEGEND

DIVERSION DIKE	DD
INTERCEPTOR DIKE	ID
PERIMETER DIKE	PD
STABILIZED CONSTRUCTION ENTRANCE	SCE
EXISTING GROUND	300
LIMIT OF DRAINAGE AREA	---
PROPOSED GROUND	300
SILT FENCE	S

SEQUENCE OF CONSTRUCTION OPERATION

- NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS 48 HOURS BEFORE ANY WORK BEGINS.
- CONSTRUCT STONE CONSTRUCTION ENTRANCE PRIOR TO ANY GRADING OPERATIONS; CONSTRUCT THE SEDIMENT CONTROL MEASURES: SEDIMENT TRAPS, DIVERSION AND INTERCEPTOR DIKES.
- STABILIZE ALL SEDIMENT CONTROL MEASURES AS PER "SEDIMENT CONTROL NOTES". DIVERSION AND INTERCEPTOR DIKES SHALL UTILIZE TOPSOIL AT SITE.
- CLEAR AND GRUB REMAINING AREAS.
- STRIP AND STOCKPILE TOPSOIL FROM THE ENTIRE SITE.
- BEGIN ROUGH GRADING OF SITE. ALL TOE OF SLOPES FOR THE GRADING SHALL BE PLACED AT A MINIMUM OF 5 FEET FROM THE TOP OF ALL SEDIMENT TRAPS OR 5 FEET FROM THE TOE OF THE PERIMETER/DIVERSION DIKES.
- INSTALL STORM DRAINAGE SYSTEM AND BLOCK STORM DRAIN INLETS EXCEPT NO. 4, 9, 16, 19, 24 ("I" TYPES) AND CONSTRUCT STORM INLETS SEDIMENT TRAPS. DIVERSION DIKE SHALL FUNCTION CONTINUOUSLY AND REINSTALL IMMEDIATELY AFTER INSTALLATION OF STORM DRAIN OUTFALL. BLOCK (SEE DETAIL) EACH INLET WITH 1" EXTERIOR PLYWOOD HELD IN PLACE WITH SANDBAGS.
- INSTALL REMAINING UNDERGROUND UTILITIES; SEE "SPECIAL NOTE".
- COMPLETE ROAD CONSTRUCTION INCLUDING PAVING; DO NOT REMOVE SEDIMENT MEASURES.
- STABILIZE AND SEED ALL REMAINING DISTURBED AREAS. REMOVE INLET BLOCK AFTER STABILIZATION HAS BEEN COMPLETED.
- REMOVE SEDIMENT TRAP ONLY AFTER THE DRAINAGE AREA CONTRIBUTING TO IT HAS BEEN GRADED AND STABILIZED.

* SPECIAL NOTE: INSTALL STORM DRAIN INLET SEDIMENT TRAPS AS DESIGNATED UNDER NO. 7 (SEQUENCE).

IMPERVIOUS & REVEGATED AREAS

Impervious Areas		
Roadways		5.485 Ac.
Sidewalk	4920 LF @ 3' wide	0.939 Ac.
Parking Pad	147 @ 17.5' x 20'	2.198 Ac.
	108 @ 20.5' x 20'	
Patios	255 @ 10' x 20'	1.171 Ac.
Mobile Homes	say 128 @ 14' x 10'	0.658 Ac.
	127 @ 24' x 34'	
Total		15.851 Ac.
Disturbed Areas		
Over Fill		14.08 Ac.
Under Cut		18.61 Ac.
Perimeter	5200 LF @ 3'	0.60 Ac.
Total		35.29 Ac.
% Impervious		~ 45 %
Area to be revegated		19.44 Ac.

SEDIMENT TRAP SCHEDULE

TRAP NO.	DRAINAGE AREA	VOL. REQUIRED	TRAP SIZE	TRAP CAPACITY	OUTLET WIDTH
1	4.7 Ac.	317 C.Y.	90' x 20' x 5'	333 C.Y.	28"
2	9.7 Ac.	245 C.Y.	90' x 15' x 5'	250 C.Y.	22"
3	4.7 Ac.	312 C.Y.	85' x 20' x 5'	315 C.Y.	28"
4	3.5 Ac.	236 C.Y.	65' x 20' x 5'	241 C.Y.	21"
5	4.1 Ac.	271 C.Y.	75' x 20' x 5'	278 C.Y.	25"
6	4.7 Ac.	312 C.Y.	85' x 20' x 5'	315 C.Y.	28"
7	4.9 Ac.	329 C.Y.	90' x 20' x 5'	333 C.Y.	29"
8	4.7 Ac.	316 C.Y.	85' x 20' x 5'	315 C.Y.	28"

PLAN
Scale: 1" = 100'

CERTIFICATION BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
 Signature: *Paul A. ...*
 DATE: 4/28/82

CERTIFICATION BY THE ENGINEER
 "I 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 WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Signature: *Kenneth A. McCord*
 DATE: 4/28/82

RESPONSIBLE PERSONNEL CERTIFICATION
 "I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
 Signature: *Paul A. ...*
 DATE: 4/28/82

REVIEWED FOR HOWARD COUNTY S.C.D. NAME: *James M. ...*
 AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE: *James M. ...* DATE: 4-23-82
 U.S. SOIL CONSERVATION SERVICE
 APPROVED: *James M. ...* DATE: 4-23-82
 HOWARD S.C.D.

WHITMAN REQUARDT AND ASSOCIATES ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Signature: *Kenneth A. McCord*
 KENNETH A. MCCORD P.E. 1974

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Signature: *James M. ...*
 COUNTY HEALTH OFFICER
 DATE: 1-13-83

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: *James M. ...*
 DIRECTOR
 DATE: 1-7-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Signature: *James M. ...*
 PLANNING DIRECTOR
 DATE: 1-13-83

Signature: *James M. ...*
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE: 4-13-83

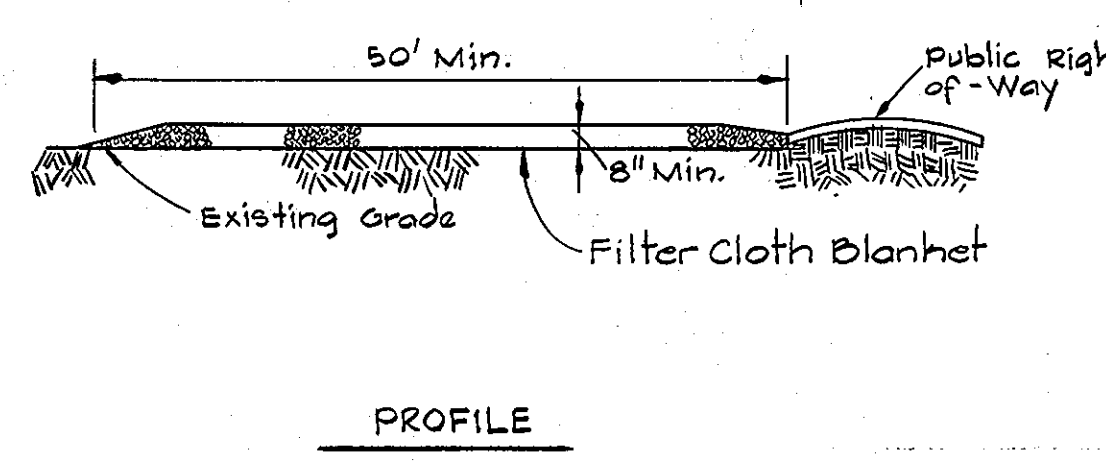
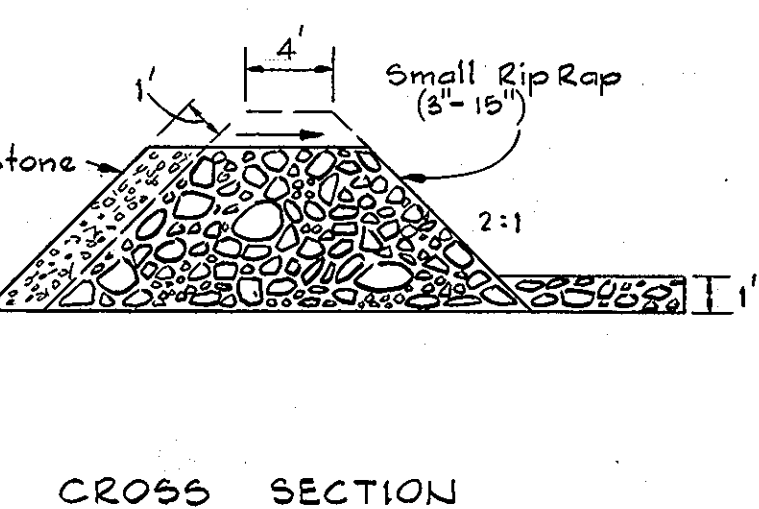
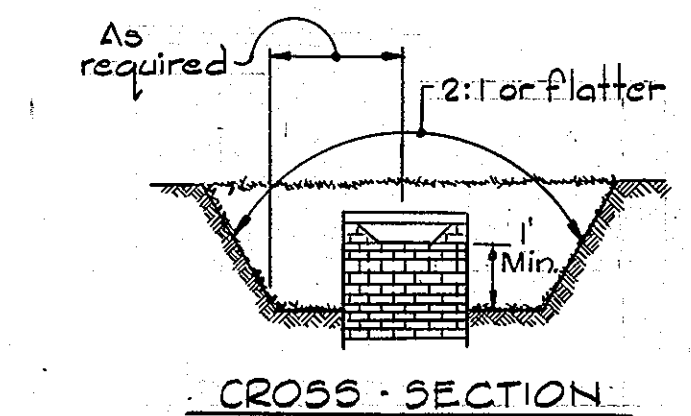
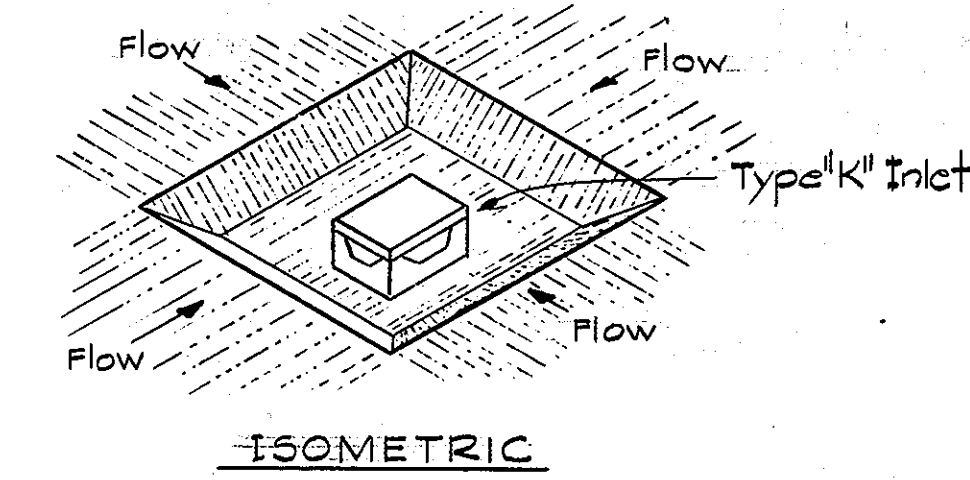
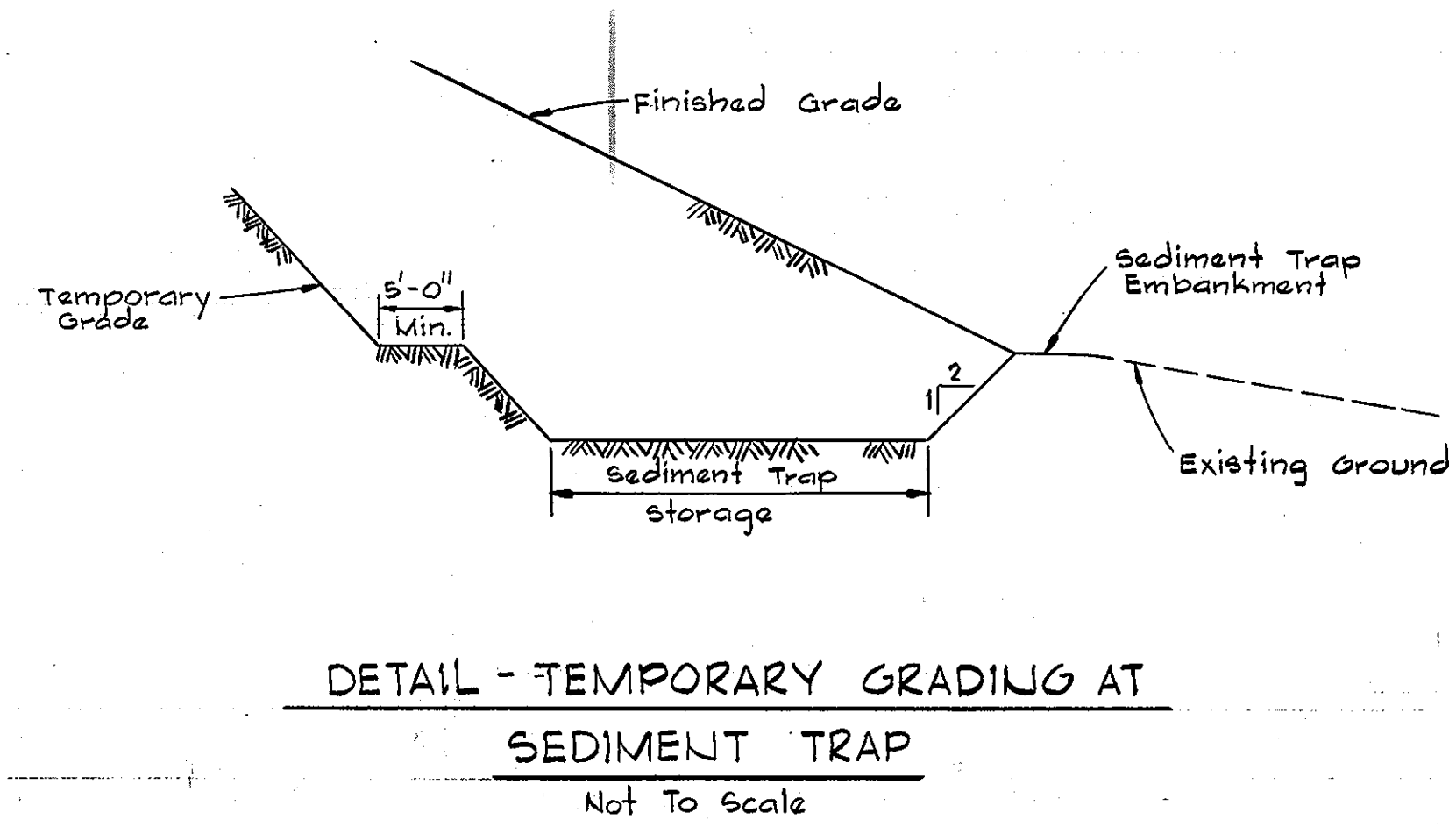
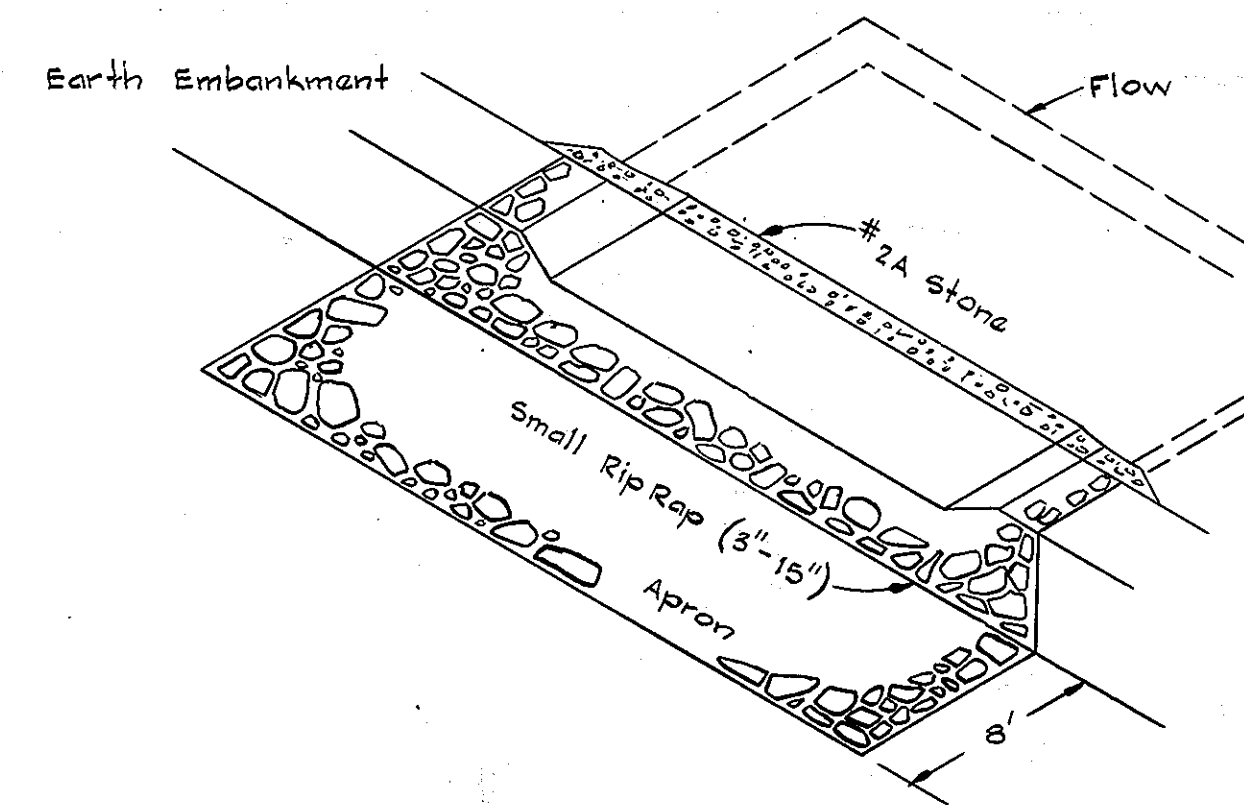
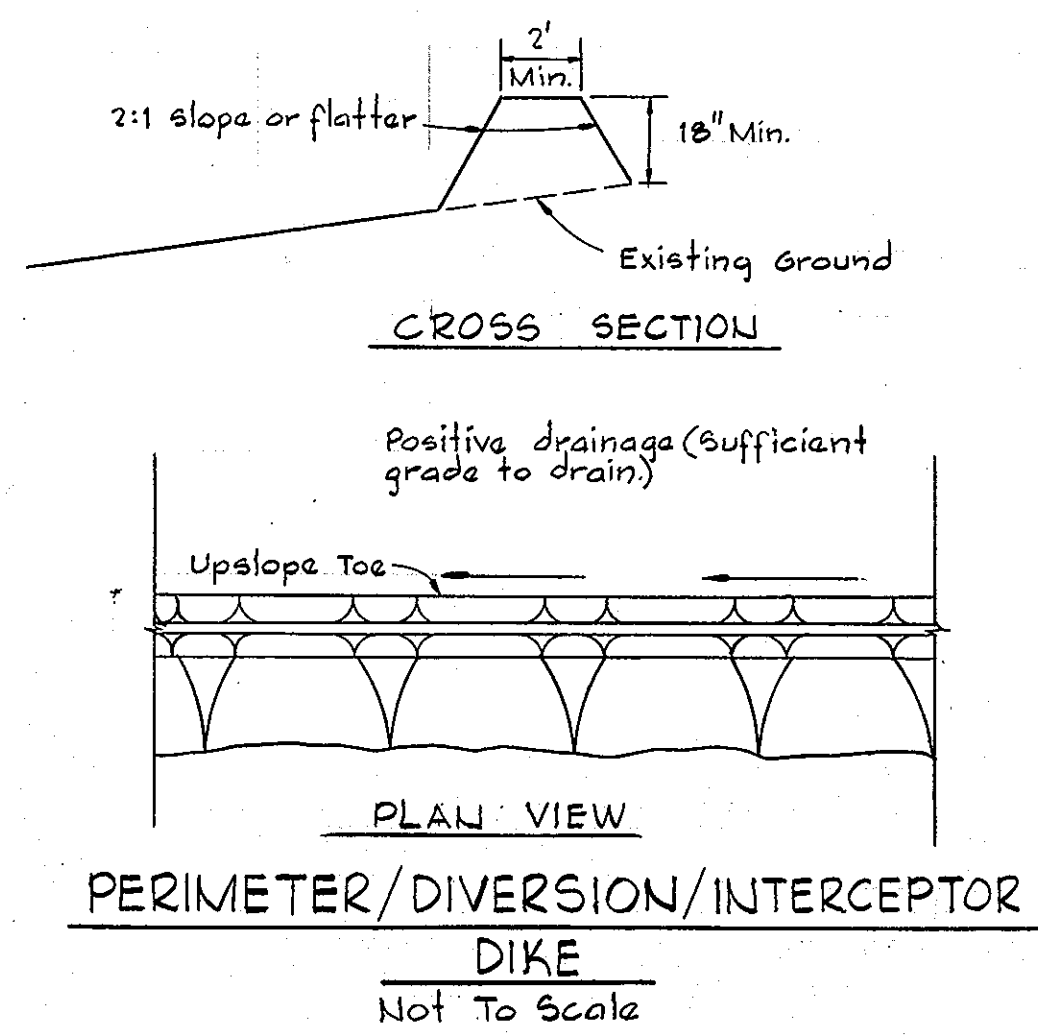
APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 10-6-82
 Signature: *James M. ...*

SITE DEVELOPMENT PLAN DEEP RUN PARK SECTION II SEDIMENT CONTROL

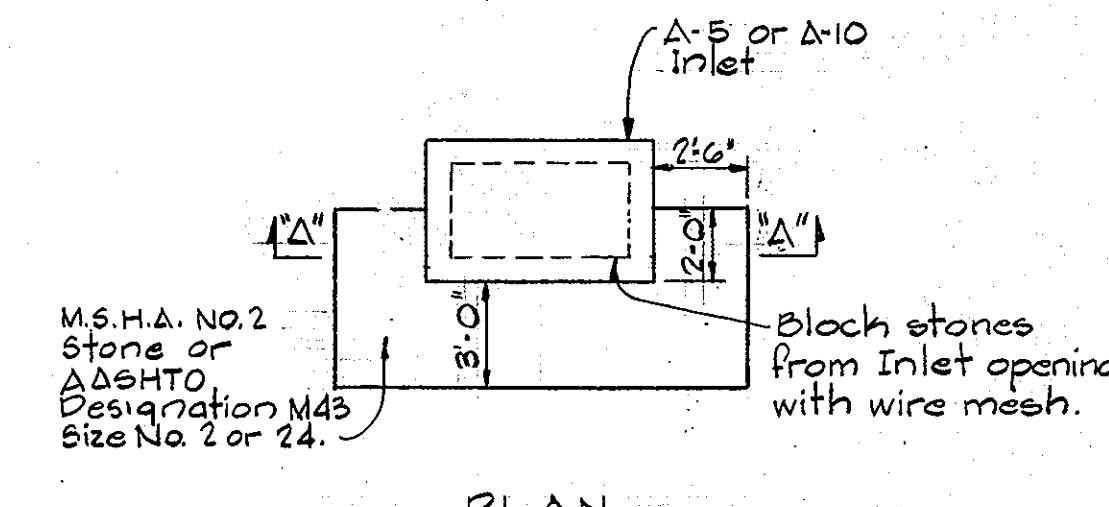
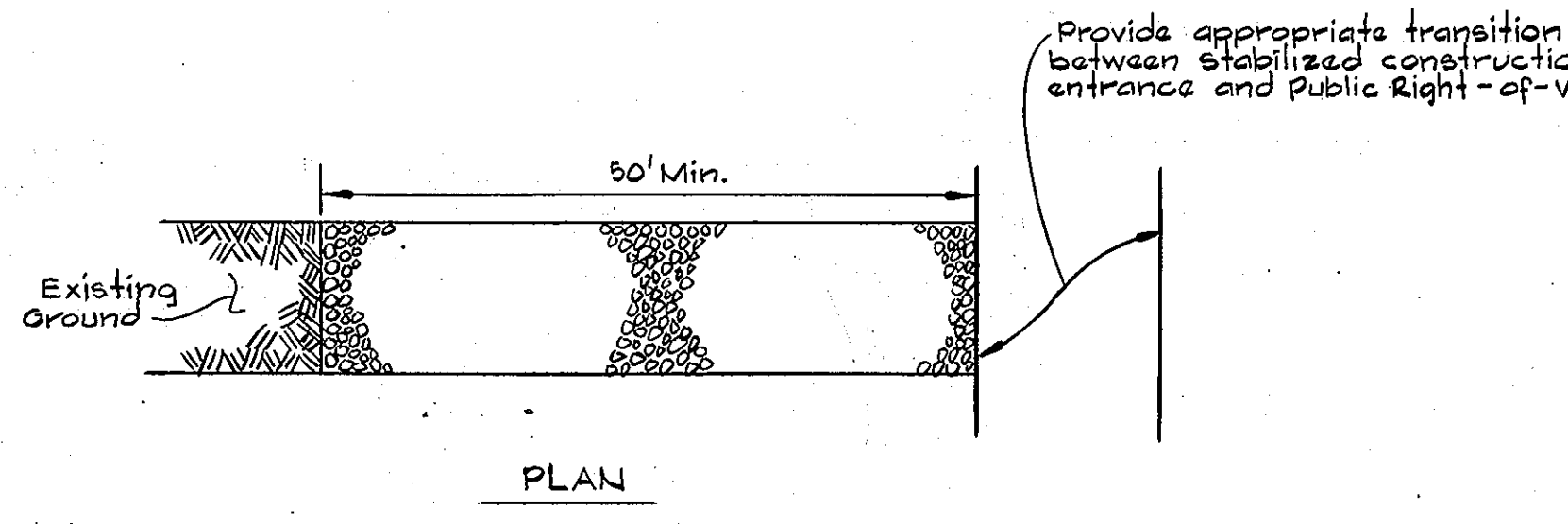
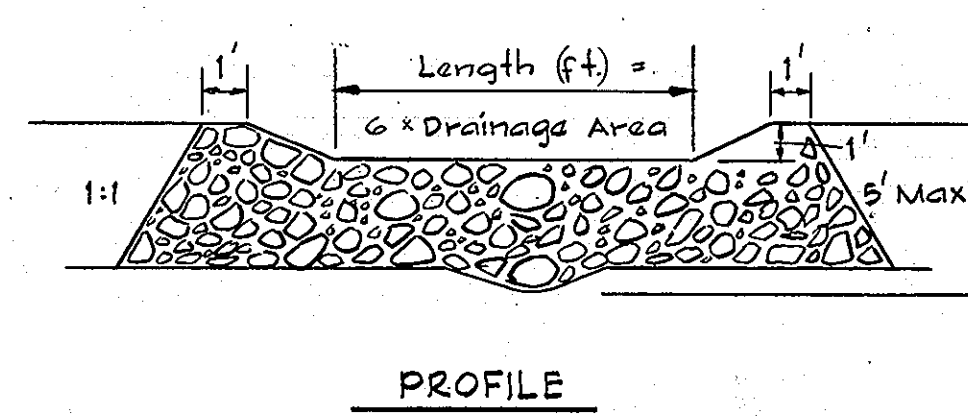
OWNER AND DEVELOPER
 FOURTH DEEP RUN ASSOCIATES
 P.O. BOX 5992
 BALTIMORE, MARYLAND 21208

FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 TAX MAP 37
 PARCEL B
 DATE: 4/28/82

SCALE: AS NOTED

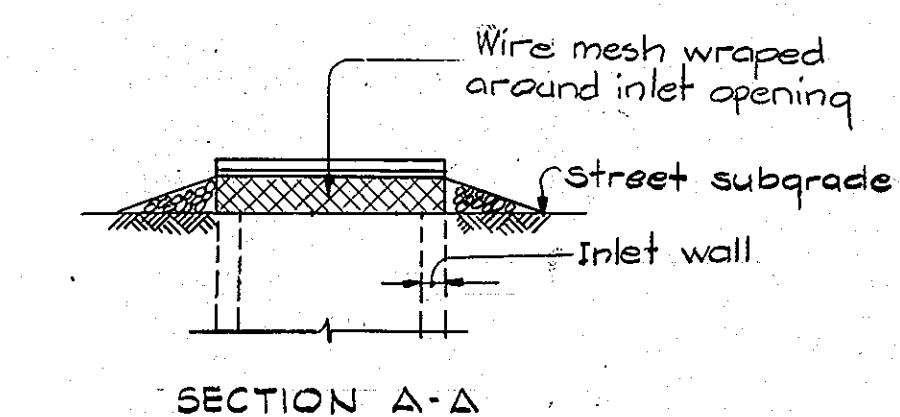


STORM INLET SEDIMENT TRAP DETAIL
Not To Scale



STONE SEDIMENT TRAP
Not To Scale

STABILIZED CONSTRUCTION FENCE
Not To Scale



BLOCKED INLET DETAIL
Not To Scale

- CONSTRUCTION SPECIFICATIONS - (INTERCEPTOR DIKE)**
- ALL DIKES SHALL BE MACHINE COMPACTED.
 - ALL INTERCEPTOR DIKES SHALL HAVE POSITIVE DRAINAGE TO OUTLET.
 - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - INTERCEPTOR DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHEN EITHER THE INTERCEPTOR DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
 - STABILIZATION, AS SPECIFIED BY THE PLANS, SHALL BE: (1) IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS FOR GRASSED WATERWAY, AND THE AREA TO BE STABILIZED SHALL BE THE CHANNEL (FLOW AREA); OR (2) THE FLOW AREA SHALL BE LINED WITH STONE THAT MEETS MSHA SIZE NO. 2 OR AASHTO M43 SIZE NO. 2 OR 24 WHICH IS PLACED IN A 3 INCH THICK LAYER AND PRESSED INTO THE SOIL. THE AREA COVERED BY THE STONE SHALL BE AS SHOWN ON STANDARD DRAWING DD-1.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED.

- CONSTRUCTION SPECIFICATIONS - (PERIMETER DIKE)**
- ALL DIKES SHALL BE MACHINE COMPACTED.
 - ALL PERIMETER DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED UPLAND AREA SHALL OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
 - B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
 - STABILIZATION, WHEN REQUIRED SHALL BE DONE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS FOR GRASSED WATERWAY. THE MINIMUM AREA TO BE STABILIZED SHALL BE THE CHANNEL FLOW AREA.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

- CONSTRUCTION SPECIFICATIONS - (DIVERSION DIKE)**
- ALL DIKES SHALL BE MACHINE COMPACTED.
 - ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
 - B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
 - STABILIZATION, AS SPECIFIED BY THE PLANS, SHALL BE: (1) IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS FOR GRASSED WATERWAY, AND THE AREA TO BE STABILIZED SHALL BE THE CHANNEL (FLOW AREA); OR (2) THE FLOW AREA SHALL BE LINED WITH STONE THAT MEETS MSHA SIZE NO. 2 OR AASHTO M43 SIZE NO. 2 OR 24 WHICH IS PLACED IN A 3 INCH THICK LAYER AND PRESSED INTO THE SOIL. THE AREA COVERED BY THE STONE SHALL BE AS SHOWN ON THE DRAWING ABOVE.

- CONSTRUCTION SPECIFICATIONS (PIPE OUTLET SEDIMENT TRAP)**
- CONSTRUCTION SPECIFICATIONS NOTES 1 THROUGH 7 OF STONE OUTLET SEDIMENT TRAP ARE APPLICABLE.
 - ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
 - AT LEAST THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH 1/2-INCH DIAMETER HOLES SPACED 8 INCHES VERTICALLY AND 10 - 12 INCHES HORIZONTALLY.
 - FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN 4-INCH LAYERS. MINIMUM OF TWO FEET OF HAND-COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.

- CONSTRUCTION SPECIFICATIONS - (STONE OUTLET SEDIMENT TRAP)**
- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
 - THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL.
 - THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
 - SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
 - THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
 - ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
 - THE CRUSHED STONE USED IN THE OUTLET SHALL MEET AASHTO DESIGNATION M43, SIZE NO. 2 OR 24 OR ITS EQUIVALENT SUCH AS MSHA NO. 2. GRAVEL, MEETING THE ABOVE GRADATION MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. CRUSHER RUN IS NOT ACCEPTABLE.

- CONSTRUCTION SPECIFICATIONS (STABILIZED CONSTRUCTION ENTRANCE)**
- STONE SIZE - USE MSHA SIZE NO. 2 (2-1/2" TO 1") OR AASHTO DESIGNATION M43 SIZE NO. 2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
 - LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
 - THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
 - WIDTH - NOT LESS THAN FULL WIDTH OF PROPOSED PAVING.
 - WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER-COURSE THROUGH USE OF SAND BAGS, GRAVEL, OR OTHER APPROVED METHODS.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Paul A. Wemmer 4/28/82
SIGNATURE OF DEVELOPER DATE

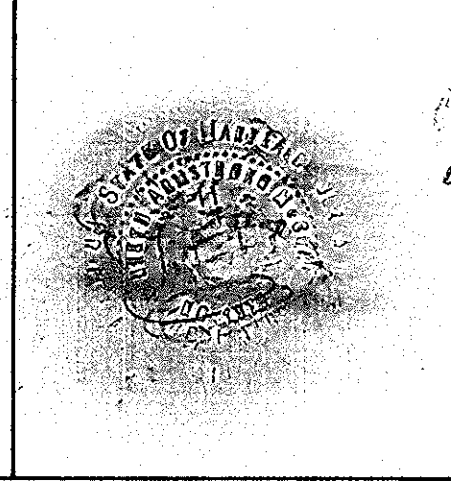
CERTIFICATION BY THE ENGINEER
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Kenneth A. McCord 4/28/82
SIGNATURE OF ENGINEER DATE

RESPONSIBLE PERSONNEL CERTIFICATION
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
Paul A. Wemmer 4/28/82
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR *Howard* S.C.D. NAME
AND MEETS TECHNICAL REQUIREMENTS.
James M. Adams DATE 4-23-82
SIGNATURE DATE
UP. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
James M. Adams DATE 4/23/82
APPROVED DATE
HOWARD S.C.D.

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21208
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1974



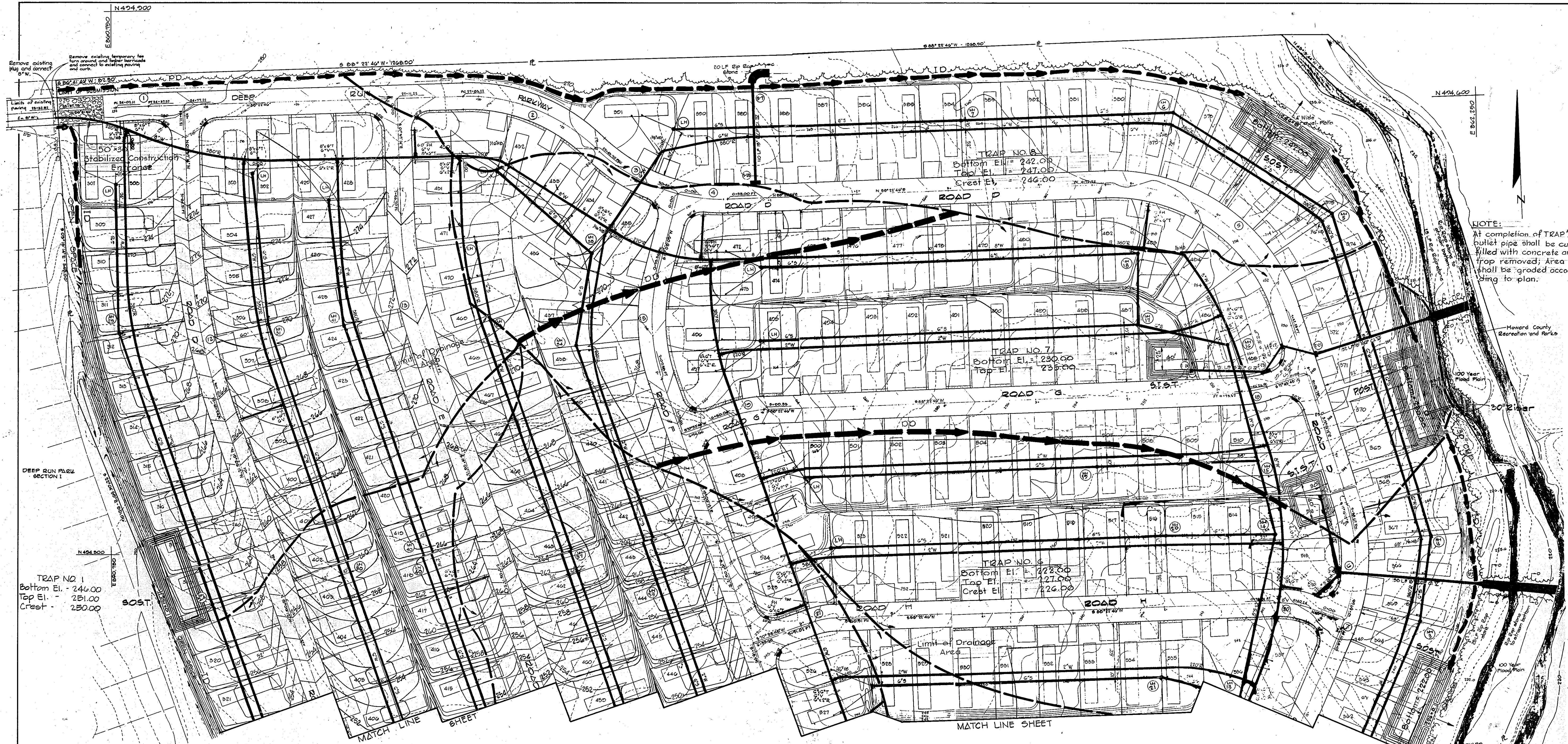
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James M. Adams 4-10-83
COUNTY HEALTH OFFICER DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph E. Neuner 1-17-83
DIRECTOR DATE
William E. Reilly 1-1-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James M. Adams 4-13-83
PLANNING DIRECTOR DATE
William E. Reilly 1-13-83
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
James M. Adams

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5002
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
SEDIMENT CONTROL
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
PARCEL B
DATE: 4/28/82
SCALE: AS NOTED
SHEET 21 OF 25



NOTE:
At completion of TRAP #7, outlet pipe shall be cut, filled with concrete and trap removed; Area shall be graded according to plan.

SEDIMENT CONTROL NOTES FOR PROJECT DEVELOPMENT
1. Sediment control devices will be maintained in functioning conditions until all areas are stabilized and approval for removal has been obtained from the Sediment Control Inspector.

PLAN
Scale: 1"=50'

P.O.S.T. - Pipe Outlet Sediment Trap
S.O.S.T. - Stone Outlet Sediment Trap
S.I.S.T. - Stone Inlet Sediment Trap

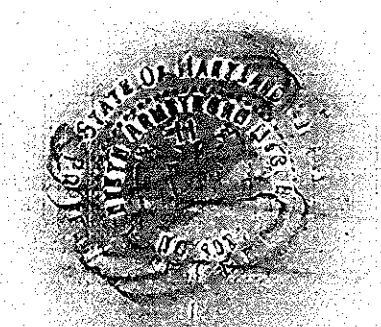
CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Paul A. Wemmer 4/28/82
SIGNATURE OF DEVELOPER DATE

CERTIFICATION BY THE ENGINEER
"I 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."
Kenneth A. McCord 4/28/82
SIGNATURE OF ENGINEER DATE

RESPONSIBLE PERSONNEL CERTIFICATION
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
Paul A. Wemmer 4/28/82
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR Howard S.C.D. NAME
AND MEETS TECHNICAL REQUIREMENTS.
James M. Helm DATE 12-23-82
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE APPROVED *[Signature]* DATE 12-23-82
HOWARD S.C.D.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1974



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Jane M. Boyd 1-13-83
COUNTY HEALTH OFFICE 235.
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
F. N. Neuman 1-7-83
DIRECTOR DATE
William B. Kelly 1-7-83
CHIEF, BUREAU OF ENGINEERING DATE

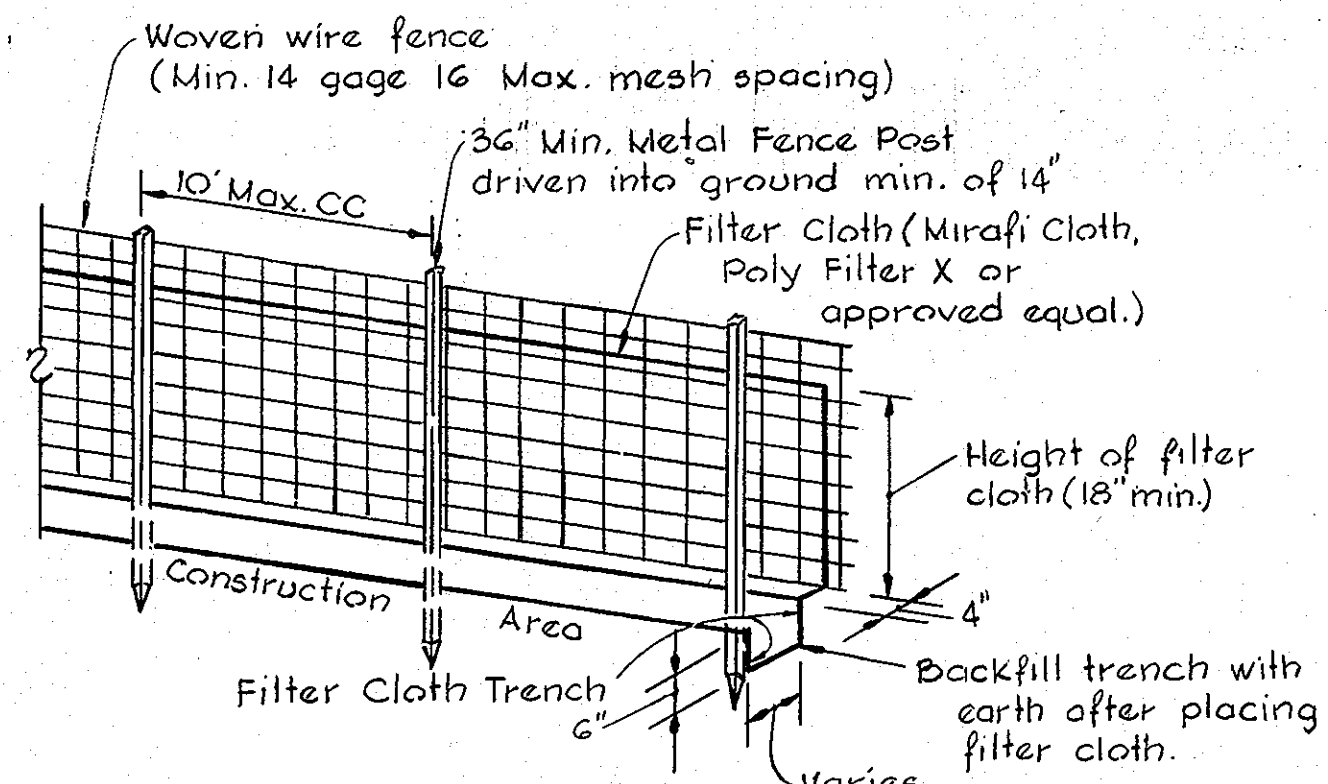
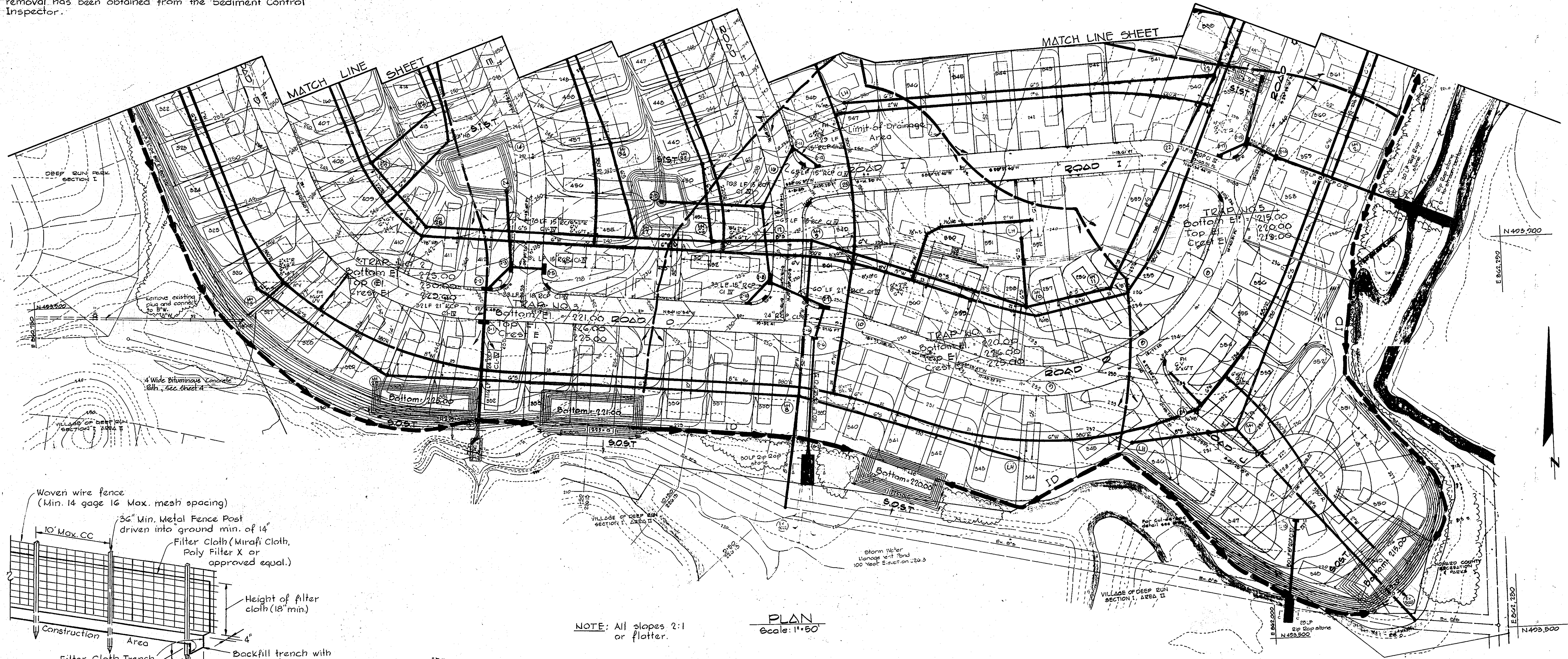
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 1-13-83
PLANNING DIRECTOR DATE
[Signature] 1-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
[Signature]

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5002
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
SEDIMENT CONTROL
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL B
DATE: 4/28/82
SCALE: AS NOTED
SHEET 22 OF 25

SEDIMENT CONTROL NOTES FOR PROJECT DEVELOPMENT
 1. Sediment control devices will be maintained in functioning conditions until all areas are stabilized and approval for removal has been obtained from the Sediment Control Inspector.

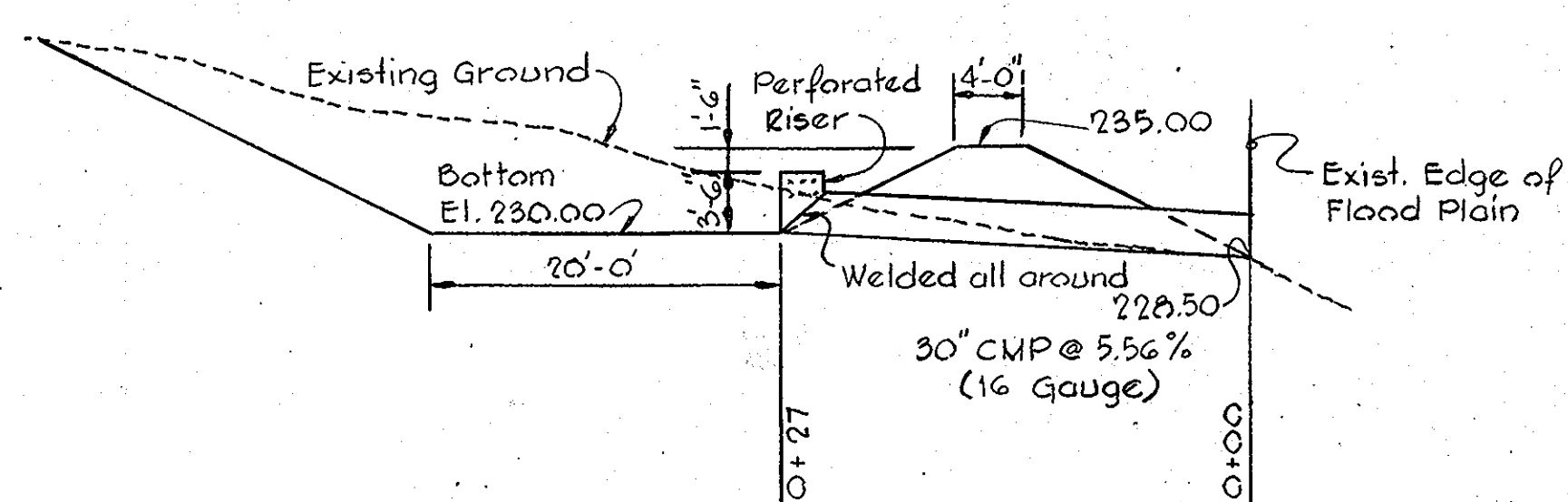


- NOTES:**
- (1) Woven wire fence to be fastened securely to fence post by use of wire ties
 - (2) Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24"x24"
 - (3) Silt fence may be placed in lieu of straw bales.

SILT FENCE DETAIL
 Not to scale

NOTE: All slopes 2:1 or flatter.

PLAN
 Scale: 1"=50'



SECTION THRU RISER
 Scale: 1"=10'

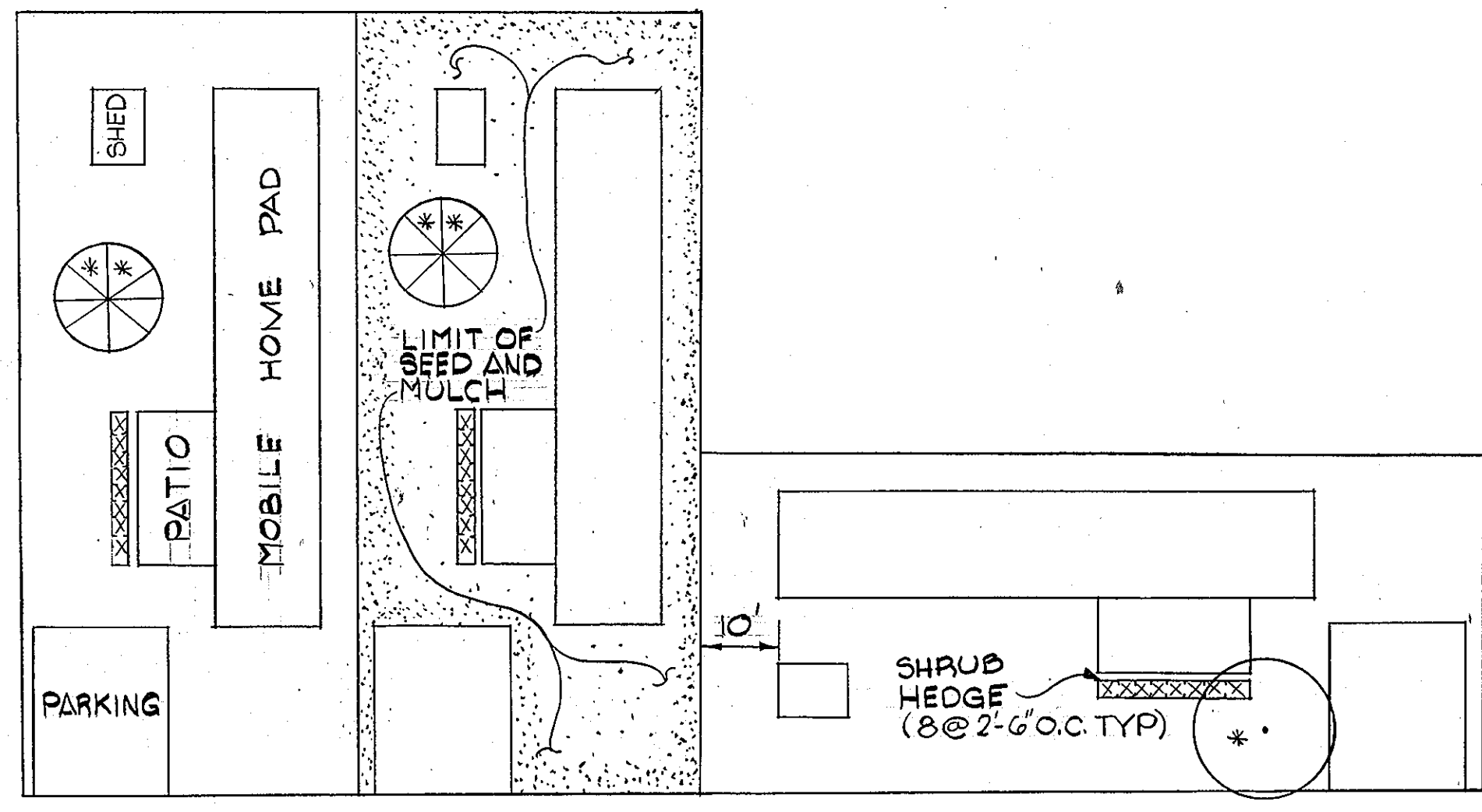
STORM INLET SEDIMENT TRAP SCHEDULE					
INLET NO.	DRAINAGE AREA	VOLUME REQUIRED	TRAP CAPACITY	TRAP SIZE	BOTTOM ELEV.
I-4	2.1 Ac.	141 CY	148 CY	40(Avg)X50X2'	237.00
I-9	1.9 Ac.	127 CY	133 CY	40'X45'X2'	234.00
I-16	0.5 Ac.	33 CY	37 CY	25'X20'X2'	234.07
I-15	1.3 Ac.	87 CY	89 CY	40'X30'X2'	240.17
I-24	1.1 Ac.	74 CY	74 CY	40(Avg)25X2'	247.17

P.O.S.T. - Pipe Outlet Sediment Trap
 S.O.S.T. - Stone Outlet Sediment Trap
 S.I.S.T. - Stone Inlet Sediment Trap

CERTIFICATION BY THE DEVELOPER I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. <i>Paul A. DeWanna</i> 4/28/82 SIGNATURE OF DEVELOPER DATE		CERTIFICATION BY THE ENGINEER I 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 REQUIREMENT OF THE HOWARD SOIL CONSERVATION DISTRICT. <i>Kenneth A. McCord</i> 4/28/82 SIGNATURE OF ENGINEER DATE		RESPONSIBLE PERSONNEL CERTIFICATION I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. <i>Paul A. DeWanna</i> 4/28/82 SIGNATURE OF DEVELOPER DATE		REVISED FOR <u>HOWARD</u> S.C.D. NAME AND MEET TECHNICAL REQUIREMENTS <i>James M. Selva</i> DATE 12-23-82 SIGNATURE DATE U.S. SOIL CONSERVATION SERVICE APPROVED <u>HOWARD S.C.D.</u> DATE 12-23-82	
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WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 SAINT PAUL STREET BALTIMORE, MARYLAND 21218 <i>Kenneth A. McCord</i> KENNETH A. MCCORD P.E. 1974		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. <i>James M. Selva</i> 1-10-83 COUNTY HEALTH OFFICER DATE		APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>Thomas A. Harris</i> 1-13-83 PLANNING DIRECTOR DATE		APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 10-6-82 <i>[Signature]</i>		SITE DEVELOPMENT PLAN DEEP RUN PARK SECTION II SEDIMENT CONTROL OWNER AND DEVELOPER FOURTH DEEP RUN ASSOCIATES P.O. BOX 5992 BALTIMORE, MARYLAND 21208 FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND TAX MAP 37 PARCEL B DATE: 4/28/82 SCALE: AS NOTED		SHEET 23 OF 25
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PLANT LIST				
Code	Botanical & Common Name	Amt	Size	Remarks
①	CANOPY TREES Acer saccharum - Sugar Maple	11	2 1/2" - 3" Cal.	See Notes
②	Fraxinus pennsylvanica Marshall's Seedless	7	2 1/2" - 3" Cal.	
③	Gleditsia triacanthos inermis - Thornless Honey Locust	7	2 1/2" - 3" Cal.	
④	Quercus acutissima - Sawtooth Oak	7	2 1/2" - 3" Cal.	
⑤	Quercus borealis - Northern Red Oak	6	2 1/2" - 3" Cal.	Multi-Stemmed
⑥	EVERGREEN TREES: Picea abies - Norway Spruce	4	8' - 10'	
⑦	FLOWERING TREES: Amelanchier Canadensis - Shadblo	55	6' - 8'	See Notes
⑧	Cercis Canadensis - American Redbud	55	6' - 8'	
⑨	Cornus Florida - Dogwood	45	6' - 8'	
⑩	Koeleria paniculata - Golden-rain Tree	80	6' - 8'	
⑪	SHRUBS: Abelia x grandiflora - Glossy Abelia	600	15' - 18'	75 Lots Container
⑫	Ilex crenata convexa - Convexleaf Japanese Holly	400	15' - 18'	50 Lots Container
⑬	Ilex crenata compacta - Compact Japanese Holly	440	15' - 18'	55 Lots Container
⑭	Photinia x Fraseri - Red Photinia	600	15' - 18'	75 Lots Container

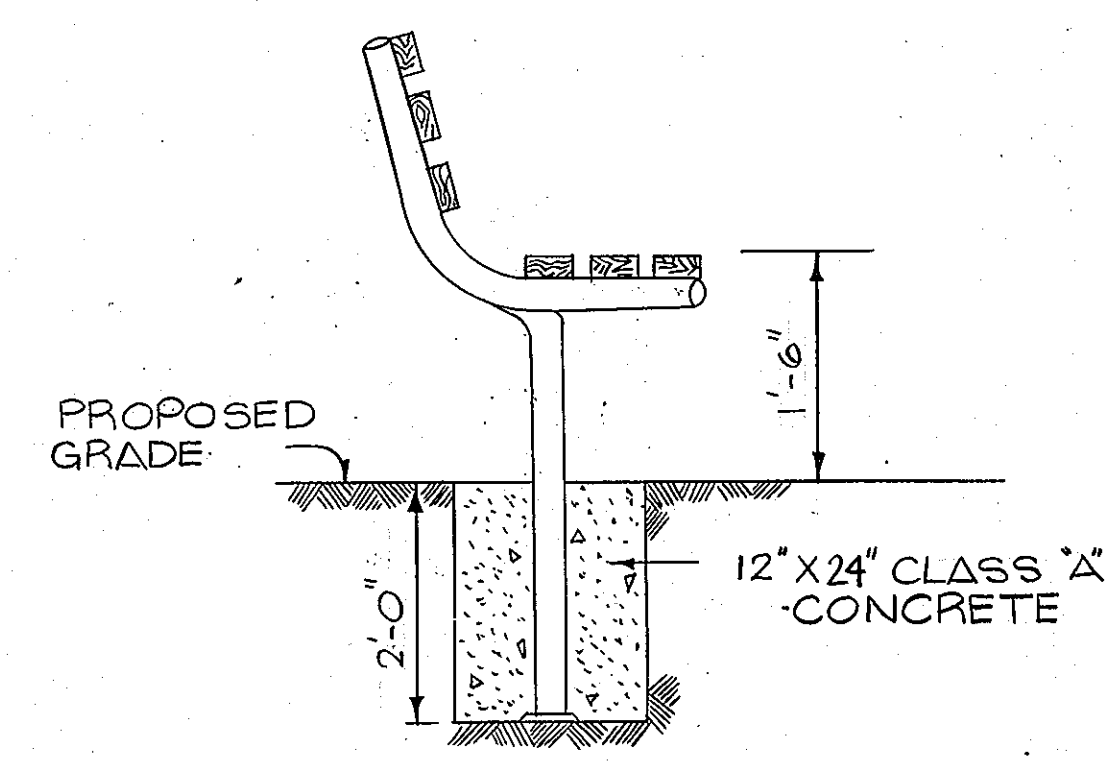


TYPICAL LOT LANDSCAPING
SCALE: 1" = 20'

Note:
See Plant List
** Flowering Trees
* Canopy Tree

*Notes: Planting shall be done as follows -

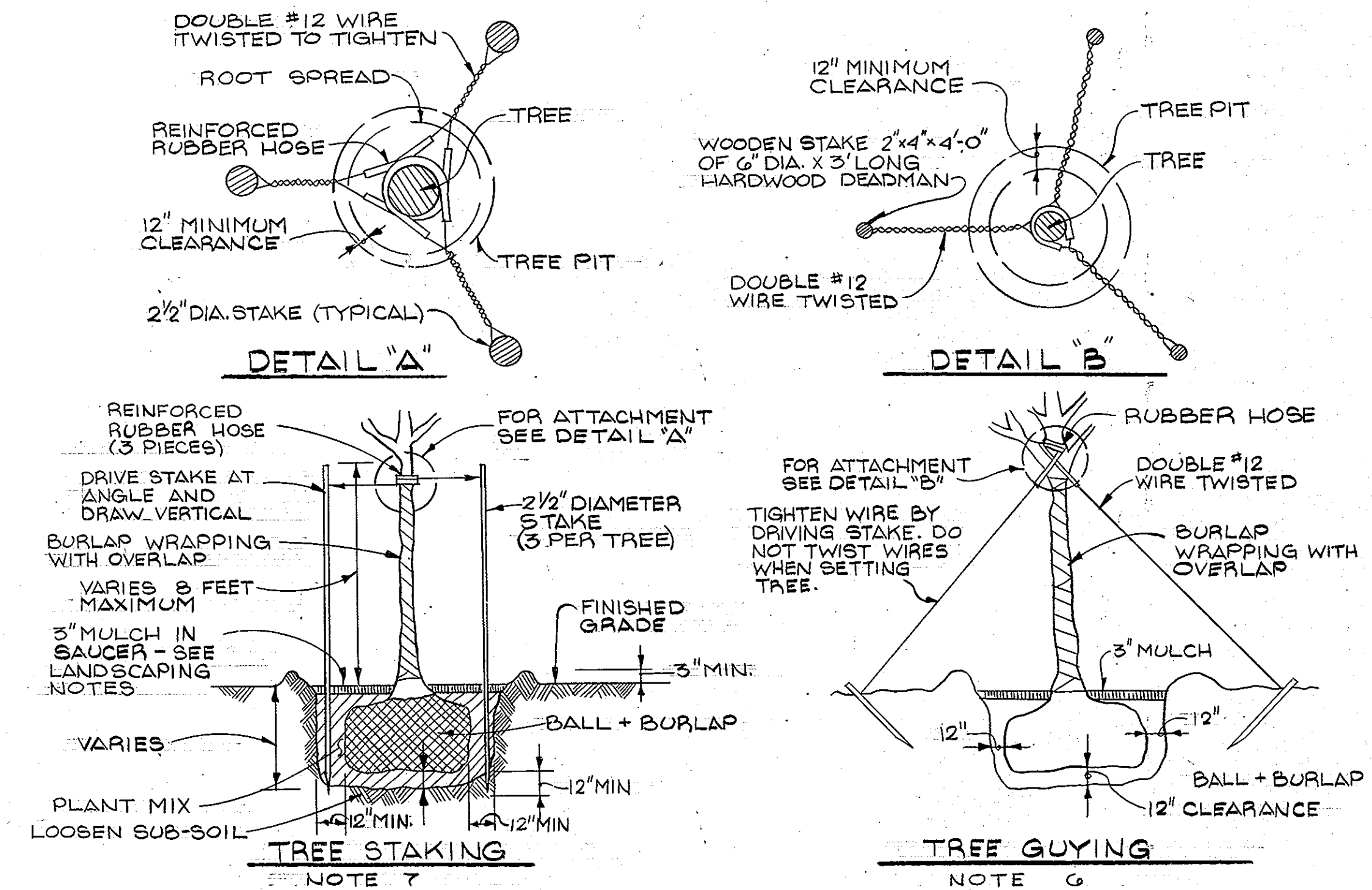
- ① Lots - 345, 346, 347, 351, 354, 485, 497, 498, 510, 539, 554
 - ② Lots - 513, 525, 526, 537, and three Tot Lots
 - ③ Lots - 412, 452, 454, 547, 549, 550, 561
 - ④ Lots - 308, 380, 391, 428, 430, 435, 472
 - ⑤ All lots shall be planted with flowering trees except lots shown ① - ④ inclusive.
 - ⑥ See Typical Lot Landscaping this sheet.
 - ⑦ 6/ Northern Red Oak
4/ Norway Spruce
3/ Flowering trees (all same species)
- To be planted along Deep Run Parkway. See Sheet 2 of 25.



FOOTING DETAIL FOR PERMANENT BENCH
NO SCALE

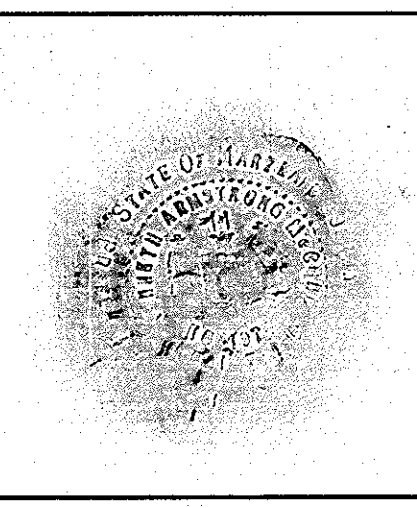
LANDSCAPING NOTES

1. PLANTS SHALL CONFORM TO LATEST EDITION OF USA STANDARD FOR NURSERY STOCK.
2. ALL PLANTS SHALL BE BALLED AND BURLAPPED AT DIGGING FROM NURSERY.
3. PLANTING MIXTURE (BACKFILLING PLANT PITS)
DECIDUOUS - 4 PARTS TOPSOIL, 1 PART STABLE MANURE, 2# FERTILIZER (10-0-4)
EVERGREEN AND BROADLEAF - 4 PARTS TOPSOIL, 1 PART PEAT HUMUS, 2# FERTILIZER (10-0-4)
4. PLANT MIX SHALL BE DONE BY HAND OR MECHANICALLY.
5. SPREAD WOOD CHIP MULCH 3" IN DEPTH OVER ALL TREE AND SHRUB PLANTINGS.
6. TREE GUYING FOR LOW BRANCHING AND CONIFERS.
7. TREE STAKING FOR SHADE TREES.
8. TREES SHALL BE A MINIMUM OF 2 1/2 INCHES CALIPER WITHIN THE REQUIRED LANDSCAPE AREAS.



PLANTING DETAILS
NO SCALE

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD PE 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
J. P. ... 1-10-83
COUNTY HEALTH OFFICER
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 4-7-83
DIRECTOR
... 1-7-83
CHIEF, BUREAU OF ENGINEERING

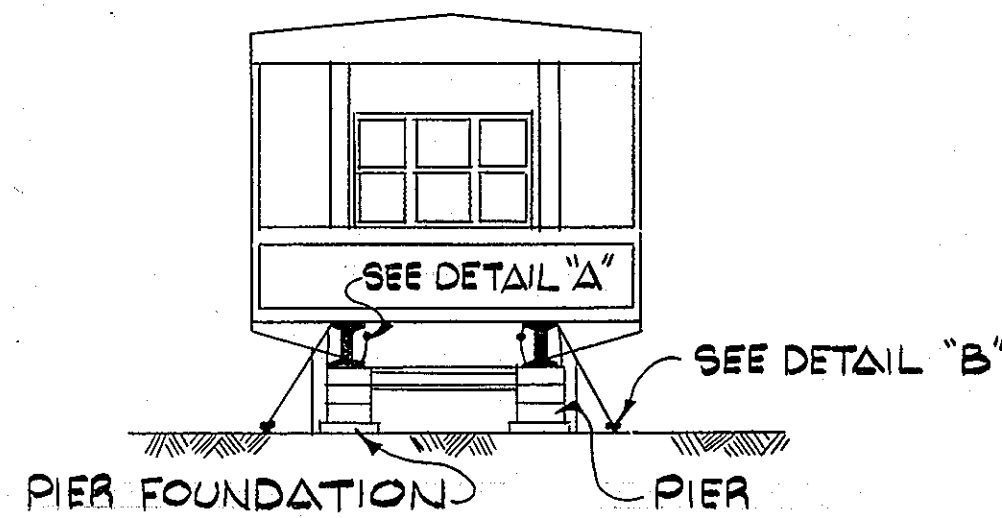
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
... 1-13-83
PLANNING DIRECTOR
... 1-13-83
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
LANDSCAPING DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37
PARCEL B
DATE: 4/28/82
SCALE: AS NOTED

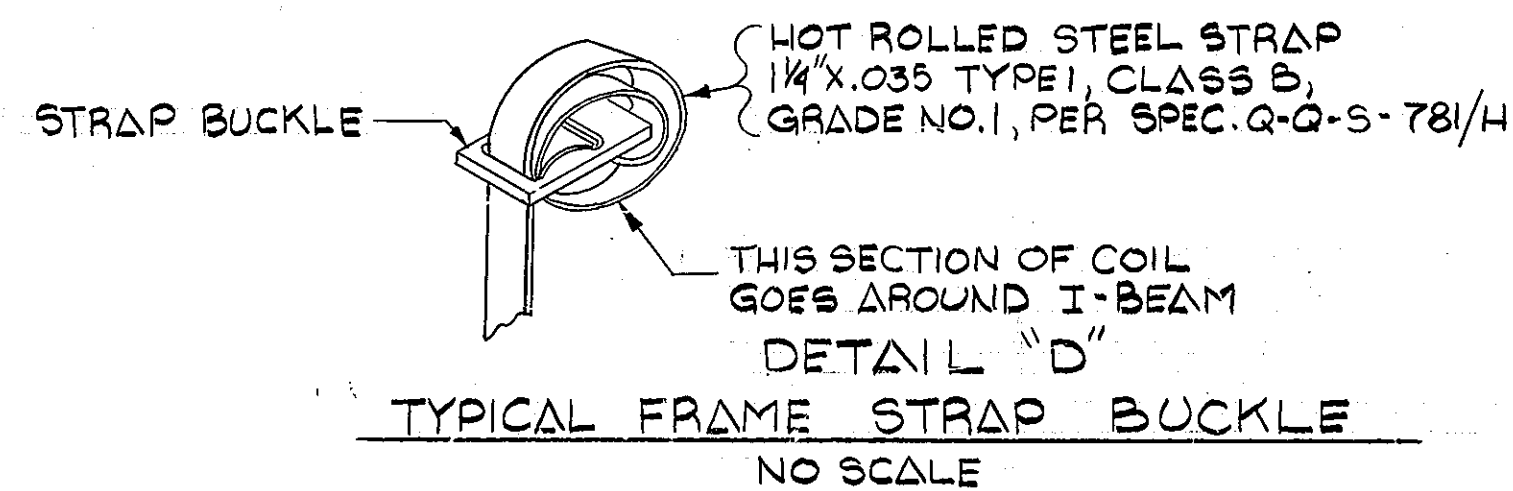
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24
OF
25



PIER FOUNDATION - TWO 4'x8'x16" SOLID MASONARY UNITS LAID PARALLEL TO THE MAIN BEAM ON COMPACTED SURFACE.

PIER - UN-DAMAGED 8'x8'x16" BLOCKS, SOLID OR OPEN CELLED BLOCKS SHALL BE PLACED WITH CELLS VERTICAL. WOODEN SHIMS MAY BE USED FOR LEVELING PURPOSES AND SHALL NOT OCCUPY MORE THAN ONE (1) INCH OF VERTICAL SPACE. IF PIER HEIGHT EXCEEDS THIRTY (30) INCHES, PIERS MUST BE AT LEAST 16'x16" LAID AS STATED.

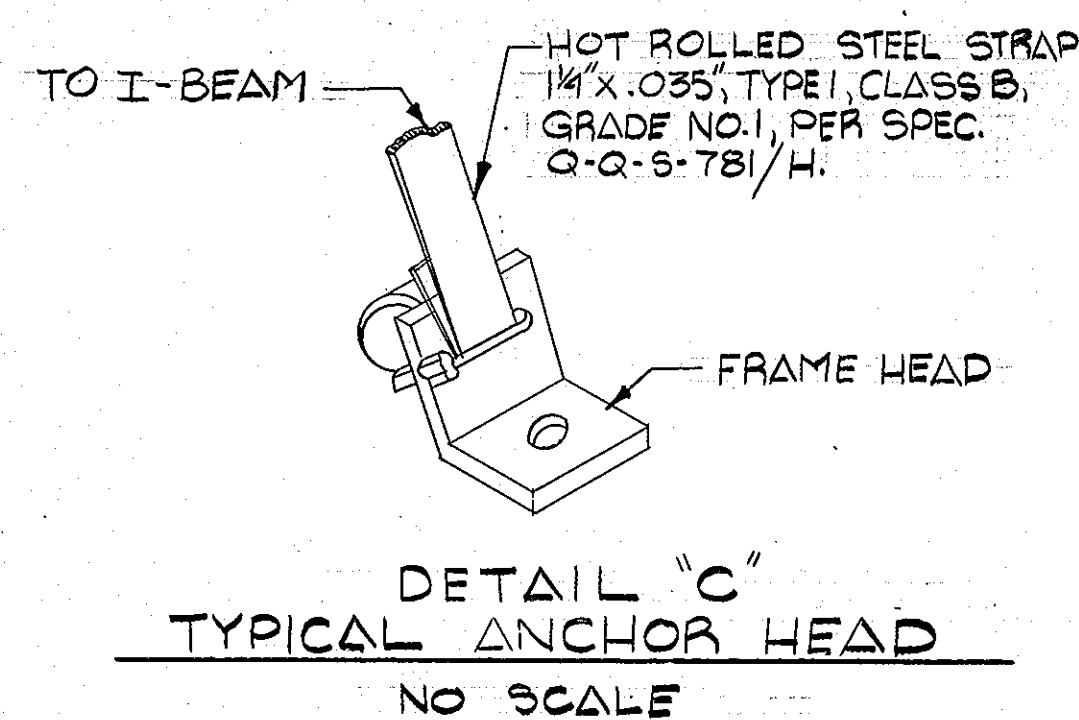
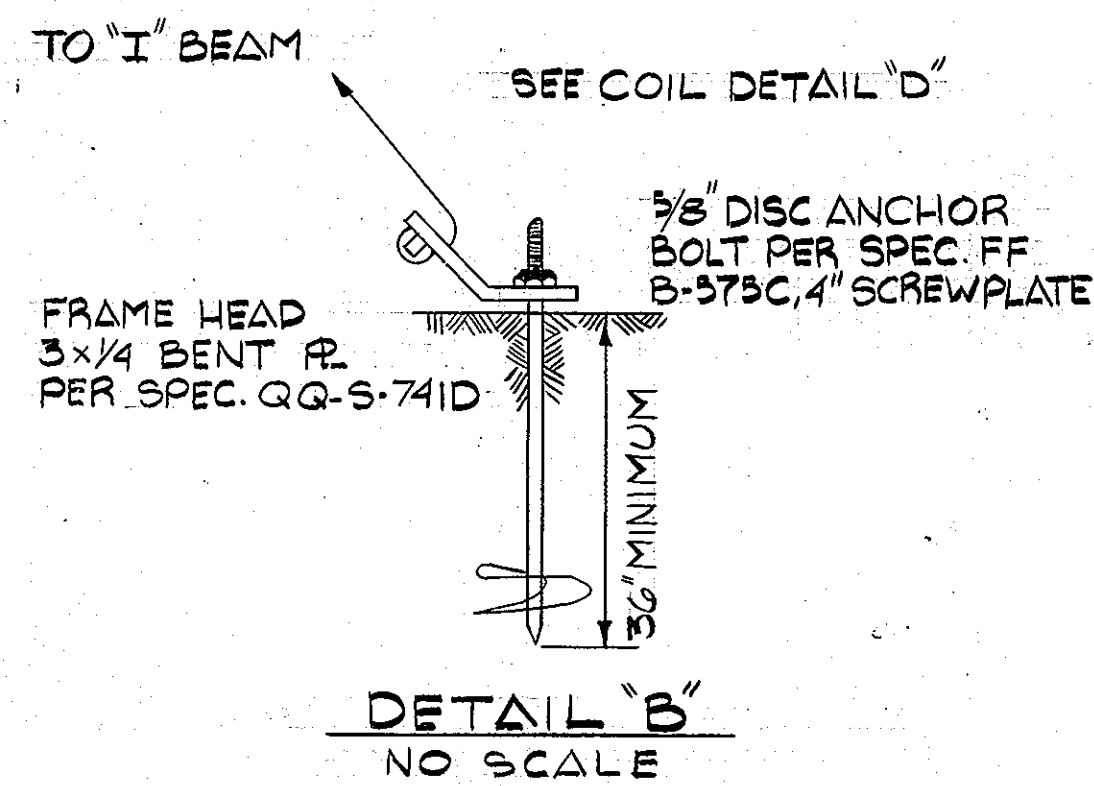
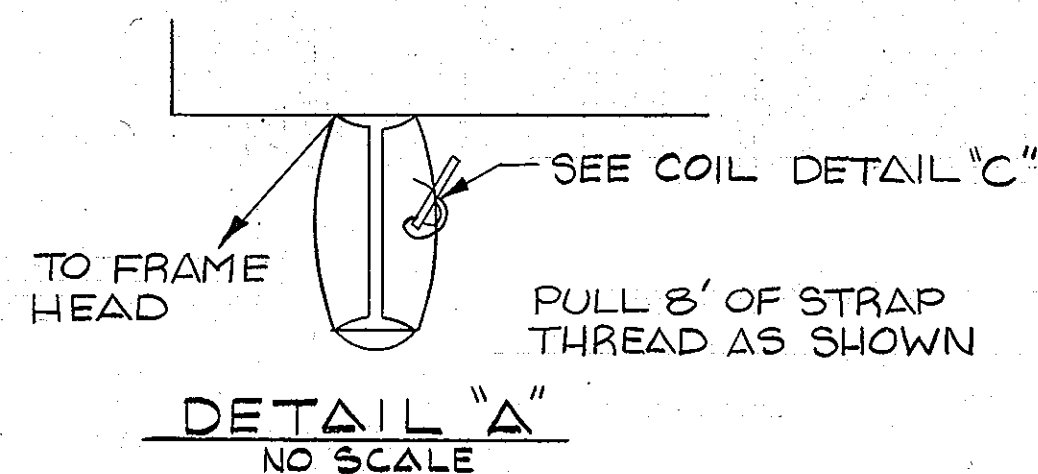
TYPICAL FRONT ELEVATION
NO SCALE



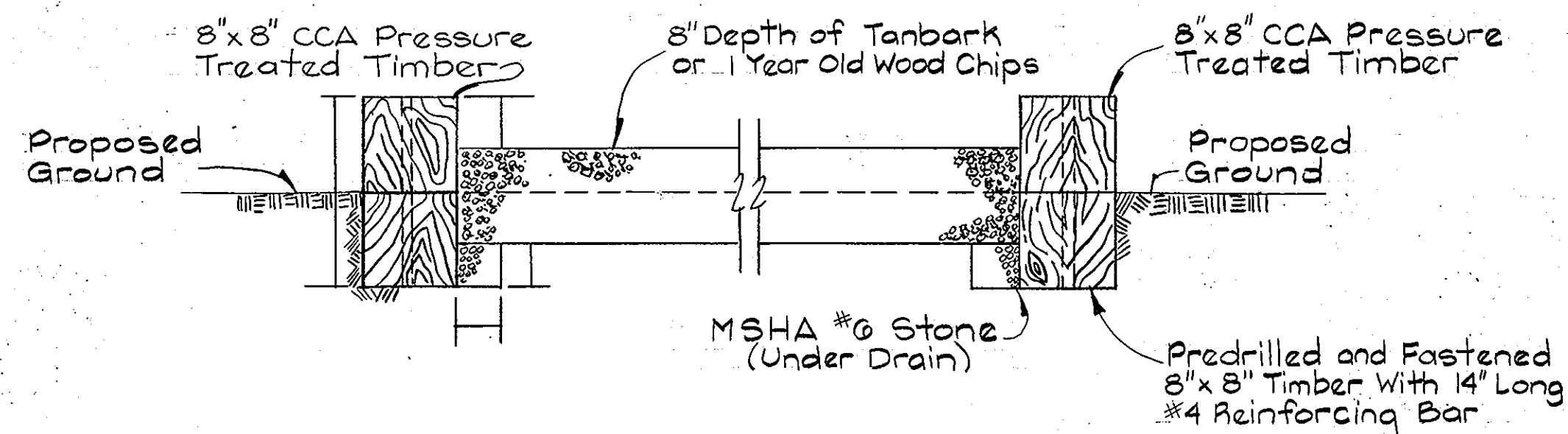
NOTE: THE MINIMUM NUMBER OF SUCH TIE-DOWNS SHALL BE EIGHT (8) WITH EACH HAVING A HOLDING POWER OF 3150 POUNDS.

NOT MORE THAN 12 FEET ON CENTERS BEGINNING FROM FRONT WALL; NOT MORE THAN 6 FEET OPEN-END SPACING SHALL BE PROVIDED AT THE REAR END OF THE MOBILE HOME UNLESS ADDITIONAL TIE-DOWNS ARE INSTALLED.

TIE-DOWNS EXPOSED TO WEATHERING SHALL BE RESISTANT TO WEATHERING DETERIORATION AT LEAST EQUIVALENT TO THAT PROVIDED BY A COATING OF ZINC ON STEEL OF NOT LESS THAN 0.30 OUNCES PER SQUARE FOOT OF SURFACE COATED.



NOT IN THIS CONTRACT



TOT-LOT DETAIL
Scale: 1"=1'-0"

TOT - LOT EQUIPMENT SCHEDULE
(ALTERNATE MANUFACTURES)

SLIDE:

- NO. 7617 MAINLINER SLIDE, 2'X14' GROUND SPACE, 6' HEIGHT, 12' LENGTH.
- 1. GAME TIME
900 ANDERSON ROAD
LITCHFIELD, MICHIGAN 49252
STAINLESS STEEL BEDRAIL, MODEL NO. 102-1, 6' HEIGHT, 12' LENGTH.
- 2. MIRACLE RECREATION EQUIPMENT COMPANY:
P.O. BOX 275, GRINNELL, IOWA 50112
SRS-612 SLIDE, 12' BEDWAY, 6' HIGH
- 3. PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101

CLIMBER:

- NO. 621-000 MINI-TREE CLIMBER, 5'-10" HIGH X 4' WIDE.
- 1. MEXICO FORGE
KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084
TURTLE (BUFF COLOR), GROUND SPACE 6' X 4'-5"
- 2. FORM INC.
12900 W. TEN MILE RD., SOUTH LYON, MICHIGAN 48178
CTW CASTLE TOWER - PERMANENT
- 3. PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101

CRAWL - THRU:

- 2RDCT UP/DOWN CRAWL THRU-PERMANENT 14' X 4' GROUND SPACE
- 1. PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101
RDCT, CRAWL THRU - PERMANENT 6' X 3' GROUND SPACE
- 2. PLAYGROUND CORPORATION OF AMERICA
29-24 40TH AVENUE, L.I.C., N.Y. 11101
NO. 1314 PULL TUNNEL, GROUND SPACE 30" X 8'
- 3. GAME TIME
900 ANDERSON ROAD
LITCHFIELD, MICHIGAN 49252

BENCH:

- NO. 532 WELDED STRAIGHT LEG BENCHES
- 1. GAME TIME
900 ANDERSON ROAD
LITCHFIELD, MICHIGAN 49252
6' CLASSIC BENCH 170-006
- 2. MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084
- 3. MODEL NO. 1236-2 WOODEN SLAT PARK BENCHES
MIRACLE RECREATION EQUIPMENT COMPANY
P.O. BOX 275, GRINNELL, IOWA 50112

LITTER RECEPTACLES:

- HOWARD H-3 SELF STANDING WITH CHAIN HOLES
- 1. UNITED METAL RECEPTACLE CORPORATION
14TH & LAUREL STREETS, POTTSVILLE, PA. 17901
SELF-CLOSING DOME 504-000
- 2. MEXICO FORGE
MANUFACTURED BY KILGORE CORPORATION
P.O. BOX 565, REEDSVILLE, PA. 17084
LITTER RECEPTACLES 7722-F WITH 22 GAL. PLASTIC
- 3. GAME TIME
900 ANDERSON ROAD, LITCHFIELD, MICHIGAN 49252

NOTE: INSTALLATION OF TOT-LOT AREA EQUIPMENT SHALL BE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P.E. 1074



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Bond, M.D. President
COUNTY HEALTH OFFICER J.M.S. 1-10-83 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter F. Jerny
DIRECTOR 1-7-83 DATE
William S. Remy
CHIEF BUREAU OF ENGINEERING 1-7-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
D. Roman G. Hamig, Jr. 1-13-83 DATE
PLANNING DIRECTOR
S. William M. Brown
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 1-13-83 DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-6-82
JMM

OWNER AND DEVELOPER
FOURTH DEEP RUN ASSOCIATES
P.O. BOX 5992
BALTIMORE, MARYLAND 21208

SITE DEVELOPMENT PLAN
DEEP RUN PARK SECTION II
SITE DETAILS
FIRST ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
TAX MAP 37 PARCEL B
DATE: 4/28/82
SCALE: AS NOTED

SHEET
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25