



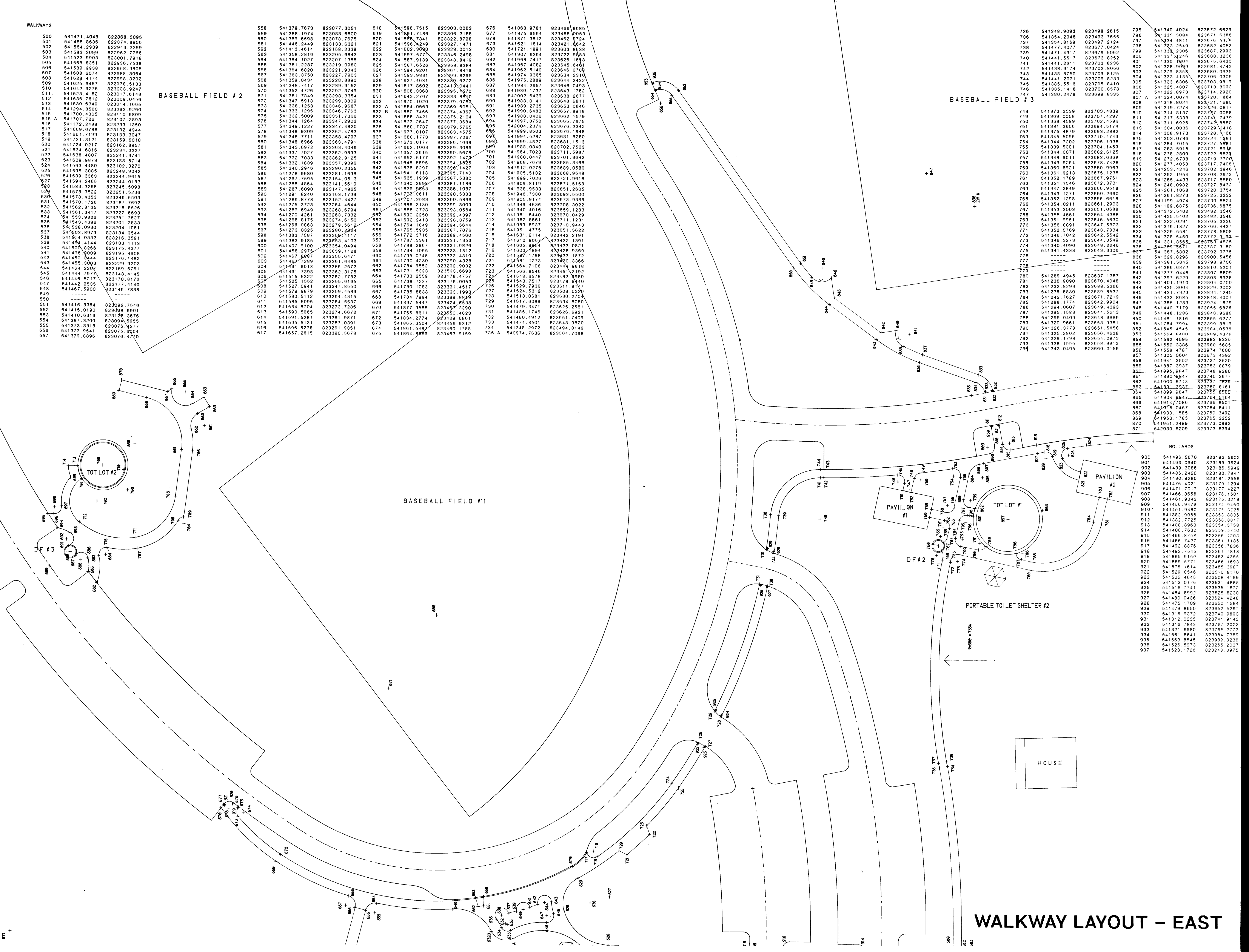
Westminster, Maryland 21157
 901-876-3383

January 25, 1992

SHEET
A-2

XXAL-92-A002

WALKWAY LAYOUT - EAST



WALKWAYS

500	541471.4048	822868.3095
501	541466.8636	822874.8956
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507	541608.2074	822988.3064
508	541628.4174	822998.3202
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510	541642.9275	823003.9247
511	541623.4162	823017.6148
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516	541172.2499	823293.1350
517	541669.8788	823182.4944
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519	541731.3121	823159.8018
520	541724.0217	823162.8957
521	541634.6816	823234.3337
522	541638.4807	823241.3741
523	541609.9873	823188.5714
524	541563.4480	823102.3270
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527	541594.2465	823244.0183
528	541583.3258	823245.5098
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531	541570.1726	823187.7692
532	541562.8135	823216.8526
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534	541553.9826	823251.7527
535	541543.9383	823201.8933
536	541538.0930	823204.1061
537	541603.8979	823184.9544
538	541601.0332	823216.3591
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540	541500.8266	823175.4377
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550	-----	-----
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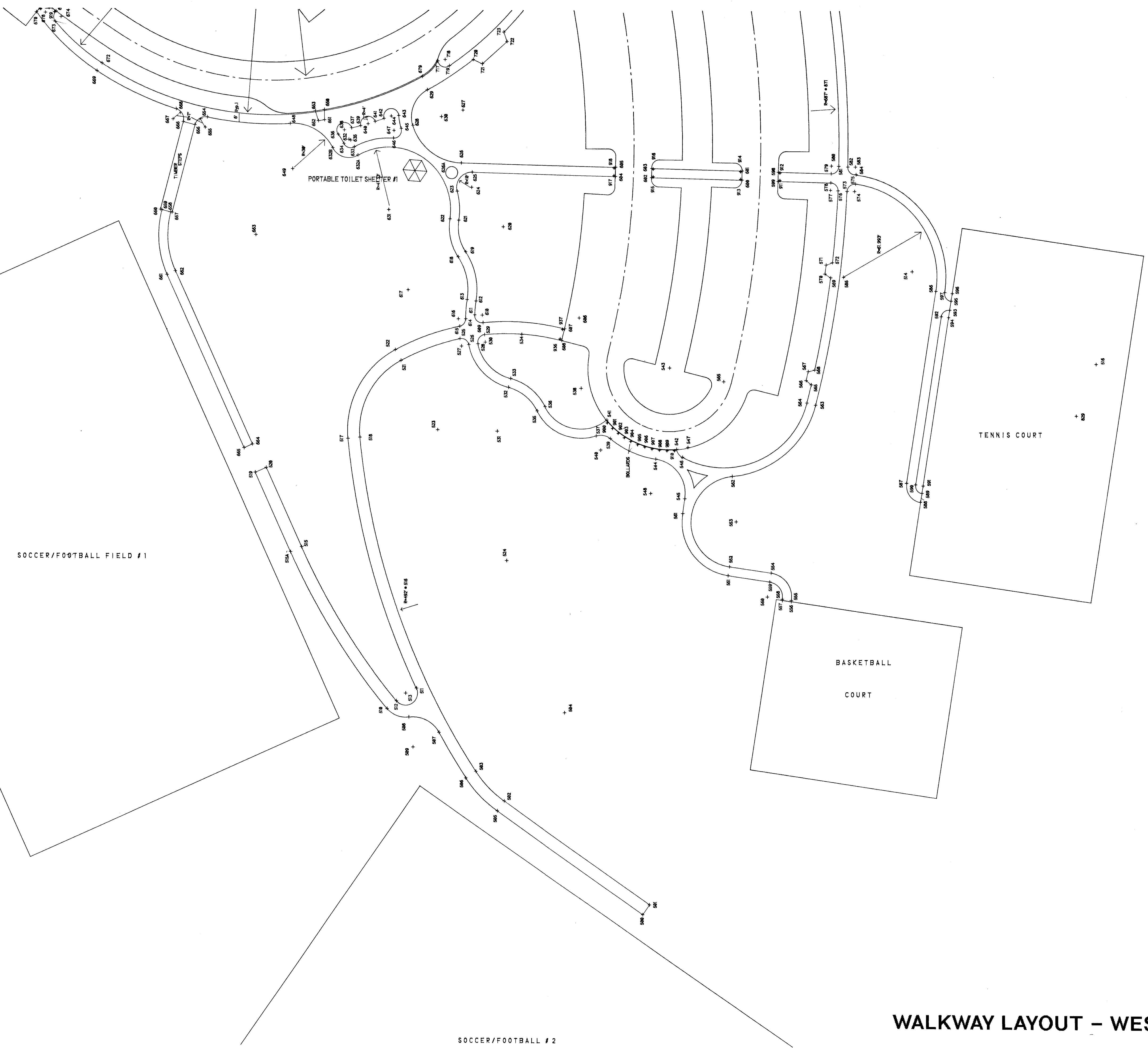
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716	541631.2114	823442.2191
717	541610.9058	823432.1391
718	541603.9994	823433.0821
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722	541564.7106	823444.9818
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730	541485.1746	823626.6921
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736	541438.9174	823703.8056
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742	541438.9174	823703.8056
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744	541441.2031	823709.8233
745	541323.6305	823703.9819
746	541385.1418	823700.8578
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748	541373.3539	823703.4839
749	541369.0058	823707.4297
750	541368.4598	823702.4596
751	541381.3606	823694.5174
752	541375.4879	

871 +



WALKWAY LAYOUT - WEST

XXAL-89-4003

ALPHA RIDGE PARK ♦ Construction Drawings
 CAPITAL PROJECT # N-3087
 HOWARD COUNTY * DEPARTMENT OF RECREATION & PARKS * DEPARTMENT OF PUBLIC WORKS



J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant

Westminster, Maryland 21157
 301-876-3383

January 25, 1992

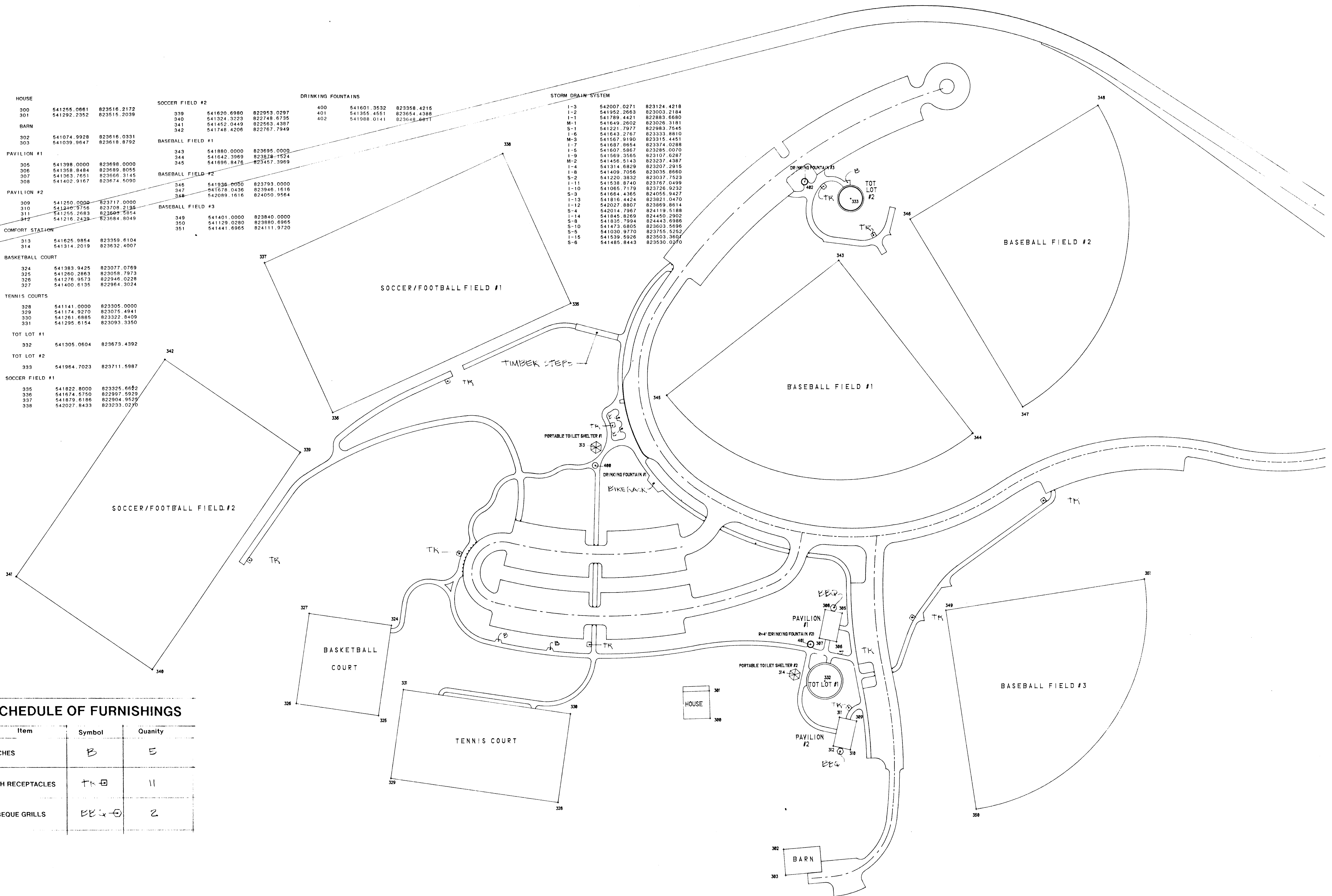
SHEET

A-3

HOUSE	541255.0661	823516.2172
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301	541292.2952	823515.2039
BARN		
302	541074.9928	823616.0331
303	541039.9647	823618.8792
PAVILION #1		
305	541398.0000	823698.0000
306	541358.8484	823689.8055
307	541383.7651	823666.3145
308	541402.9167	823674.5090
PAVILION #2		
309	541250.0000	823717.0000
310	541240.9756	823708.2135
311	541255.2883	823699.5854
312	541216.2438	823684.8049
COMFORT STATION		
313	541825.9854	823359.6104
314	541314.2019	823632.4007
BASKETBALL COURT		
324	541383.9425	823077.0769
325	541260.2863	823058.7973
326	541276.9573	822946.0228
327	541400.6135	822964.3024
TENNIS COURTS		
328	541141.0000	823305.0000
329	541174.9270	823075.4941
330	541261.6885	823322.8409
331	541295.6154	823093.3350
TOT LOT #1		
332	541305.0604	823673.4392
TOT LOT #2		
333	541964.7023	823711.5987
SOCCER FIELD #1		
335	541822.8000	823325.6622
336	541674.5750	822997.5929
337	541879.6186	822904.9529
338	542027.8433	823233.0230

DRINKING FOUNTAINS	400	541601.3532	823358.4216
401	541355.4511	823954.4388	
402	541988.0141	823648.8611	
BASEBALL FIELD #1			
343	541880.0000	823695.0000	
344	541642.3869	823818-1524	
345	541696.8476	823457.3969	
BASEBALL FIELD #2			
346	541935.0000	823793.0000	
347	541678.0436	823946.1616	
348	542089.1616	824050.9564	
BASEBALL FIELD #3			
349	541401.0000	823840.0000	
350	541129.0280	823880.6965	
351	541441.6965	824111.9720	

STORM DRAIN SYSTEM	I-3	542007.0271	823124.4218
I-2	541952.2663	823003.2184	
I-1	541789.4421	822883.6680	
M-1	541649.2602	823036.3181	
S-1	541221.7977	822983.7545	
I-6	541643.2767	823333.8810	
M-3	541587.9190	823315.4451	
I-7	541687.8654	823374.0288	
I-5	541607.5867	823285.0070	
I-9	541569.3565	823107.0267	
M-2	541456.5143	823237.4387	
I-4	541314.6829	823207.2915	
I-8	541408.7056	823035.8600	
S-2	541220.3832	823037.7523	
I-11	541538.8740	823767.0499	
I-10	541085.7179	823726.9232	
S-3	541064.4365	824055.9427	
I-13	541816.4424	823821.0470	
I-12	542027.8807	823869.8614	
S-4	542014.7967	824119.5188	
I-14	541845.8269	824450.2902	
S-8	541835.7984	824443.8986	
S-10	541473.6805	823603.6596	
S-5	541030.9770	823755.5252	
I-15	541539.5926	823503.3607	
S-6	541485.8443	823530.0270	



SCHEDULE OF FURNISHINGS

Item	Symbol	Quantity
BENCHES	B	5
TRASH RECEPTACLES	TK ⊕	11
BARBEQUE GRILLS	BB ⊕	2



Westminster, Maryland 21157
 301-876-3383

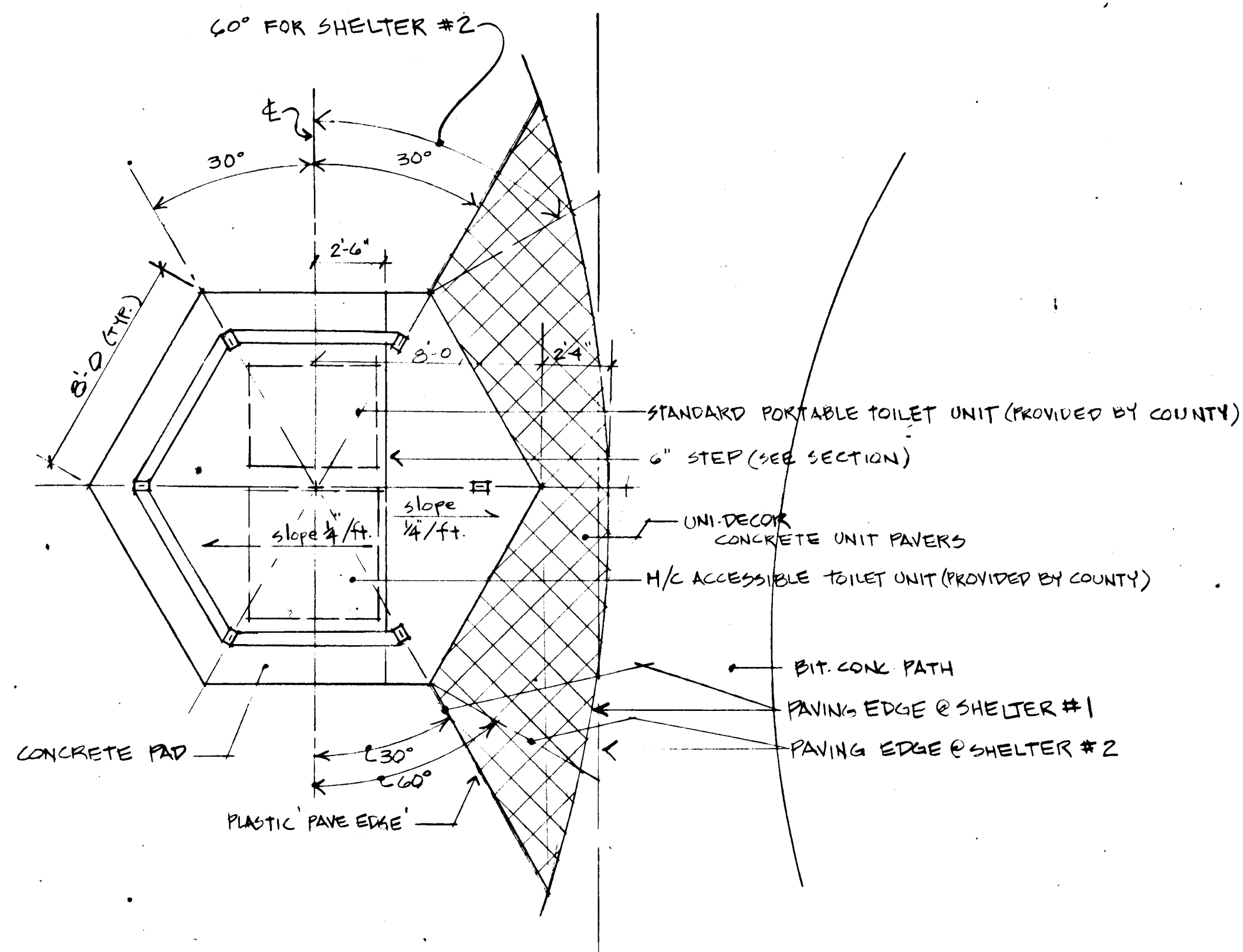
January 25, 1992

SHEET

A-4

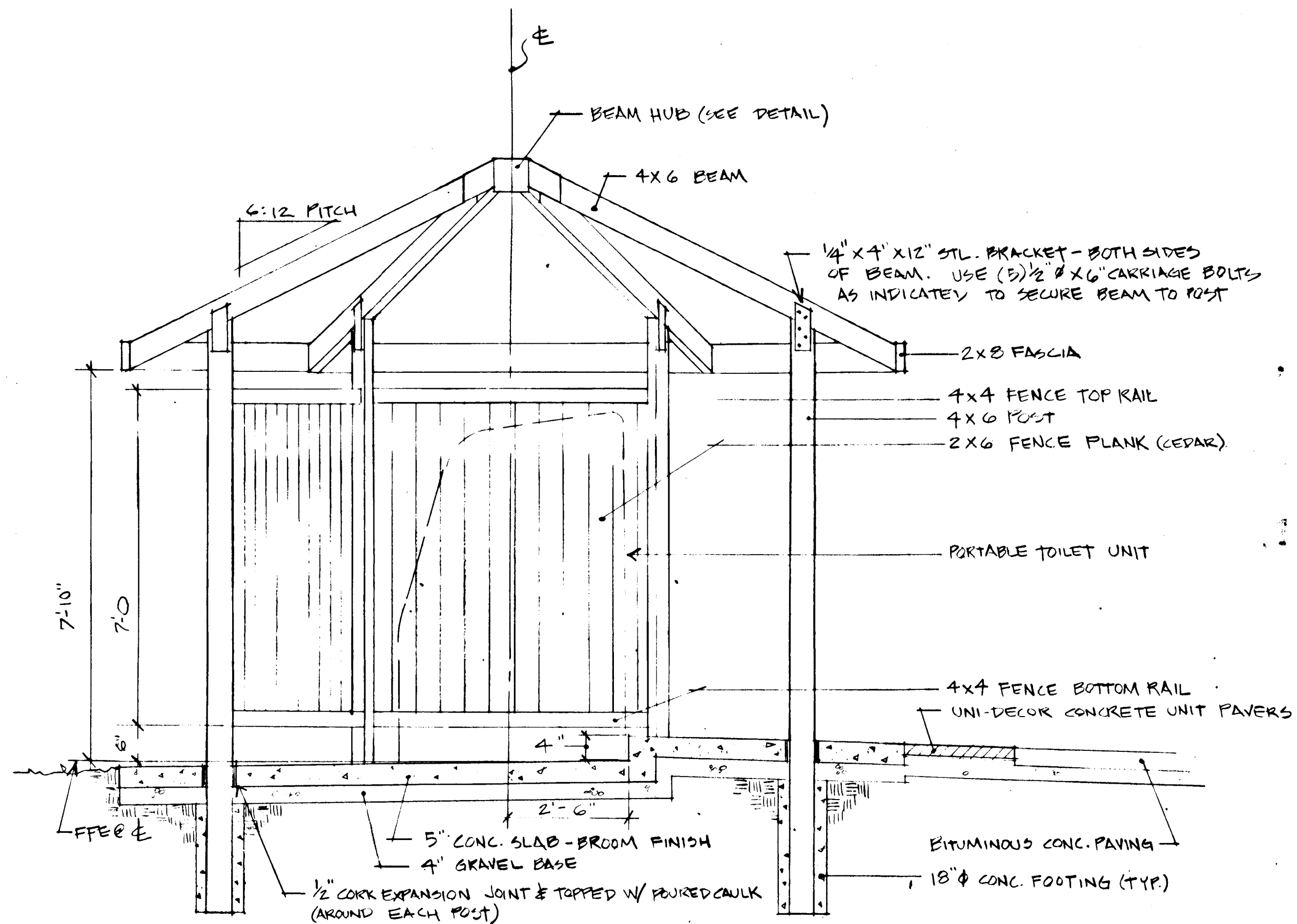
LAYOUT & LOCATIONS

XXAL-89-A003



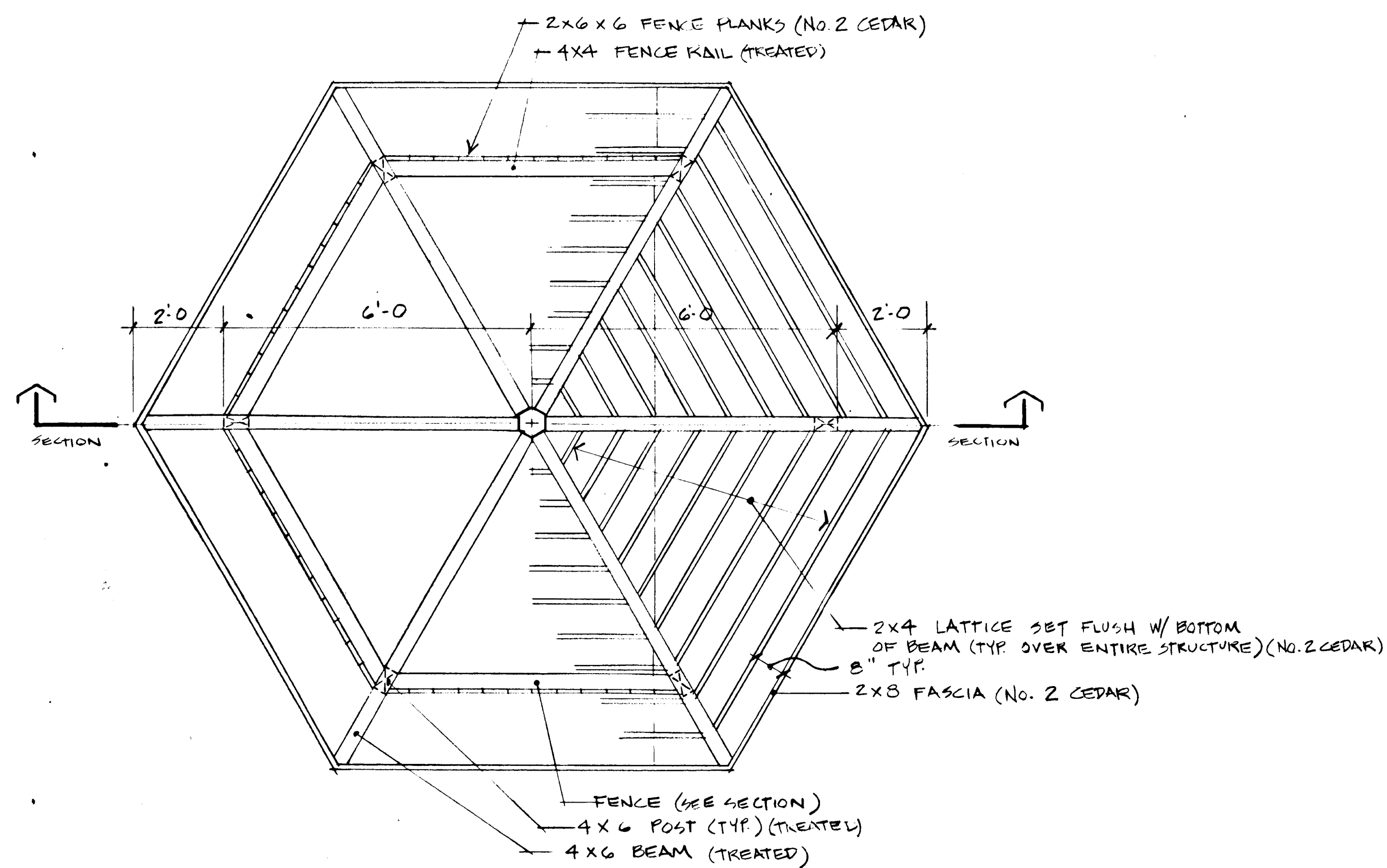
Paving Layout Plan

1/4" = 1'



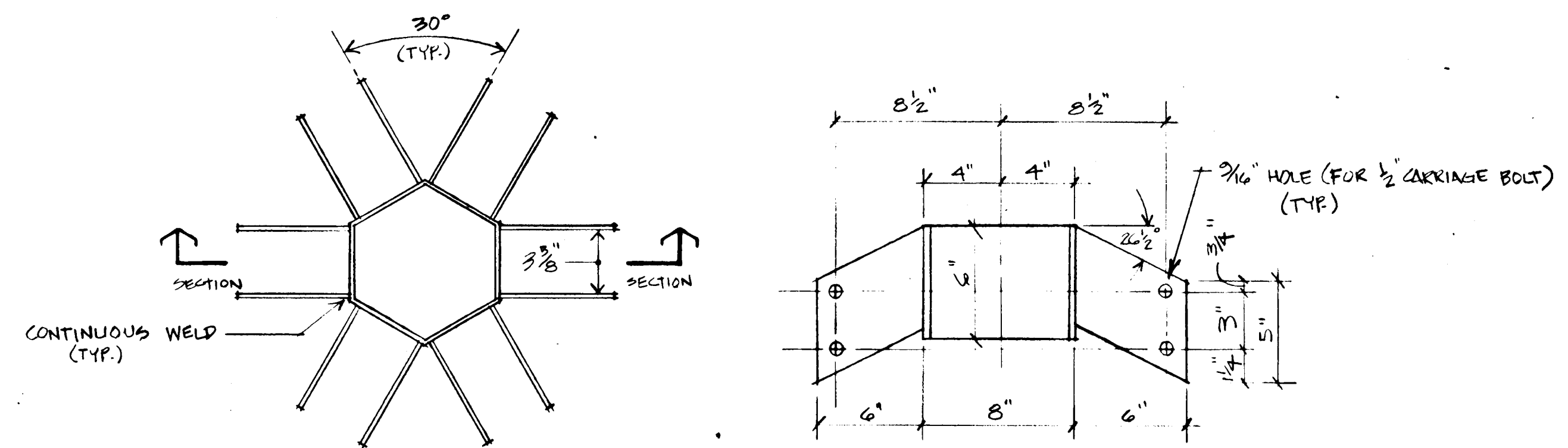
Section/Elevation

1/2" = 1'



Layout Plan

1/2" = 1'

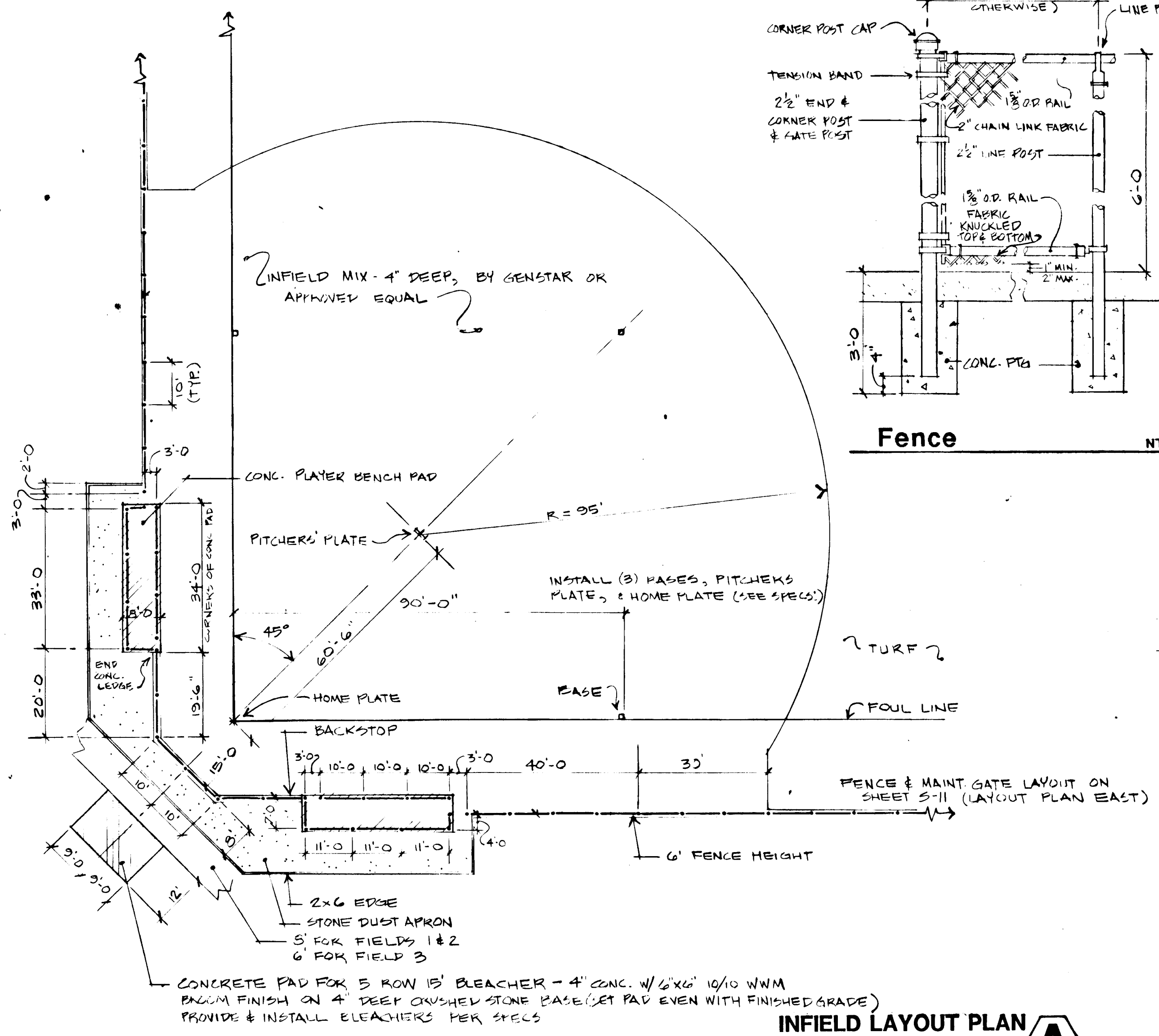


PLAN

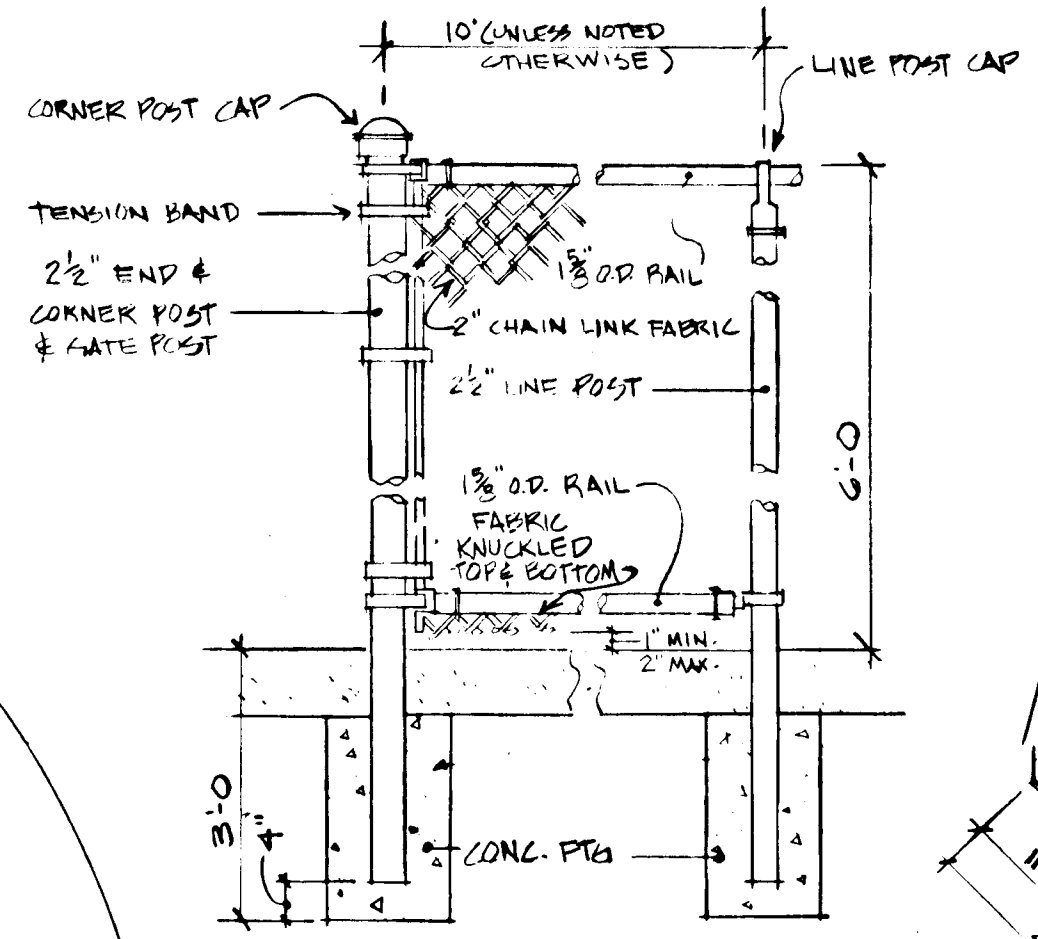
SECTION

Beam Hub

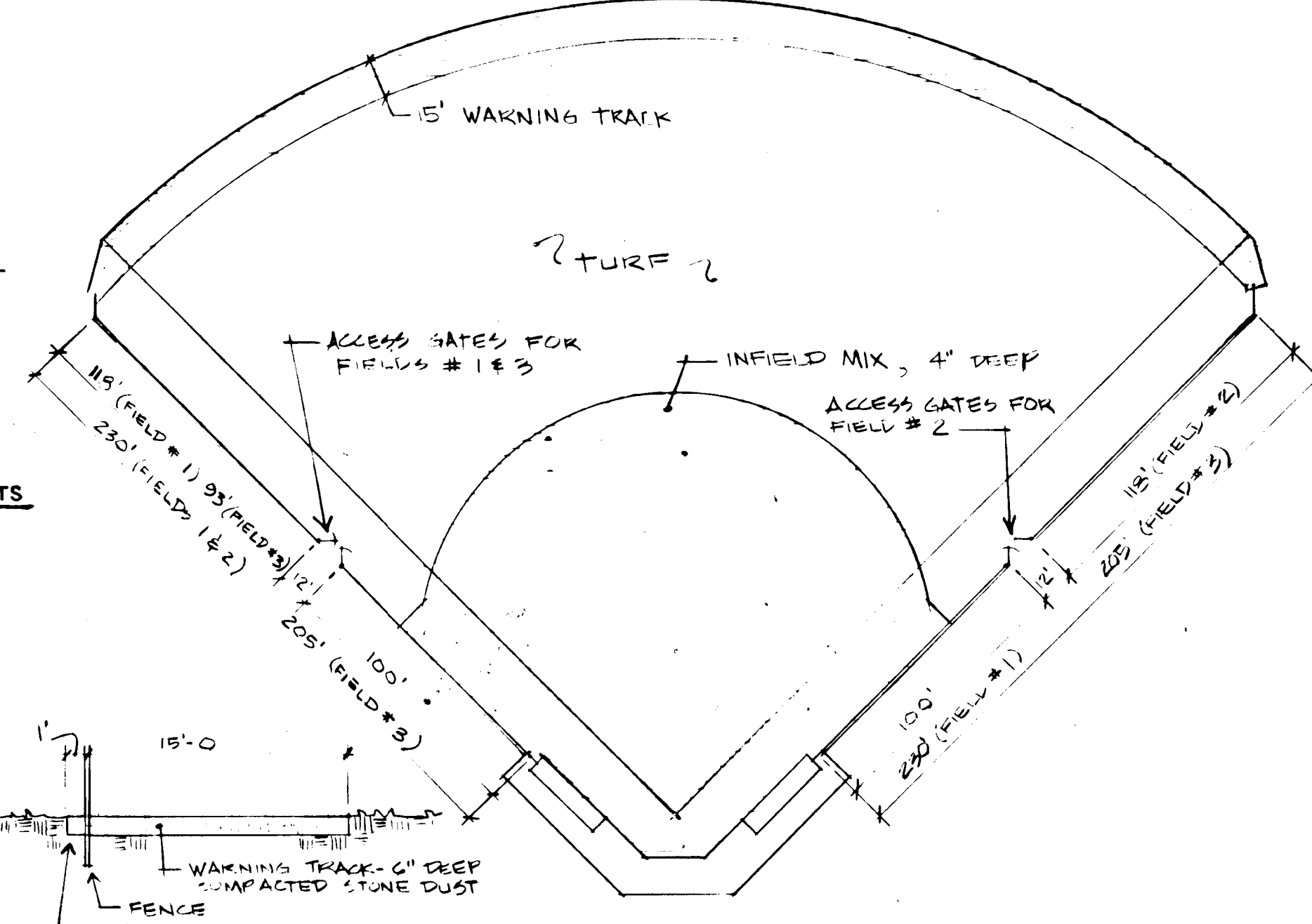
2" = 1'



INFIELD LAYOUT PLAN A
1" = 20'

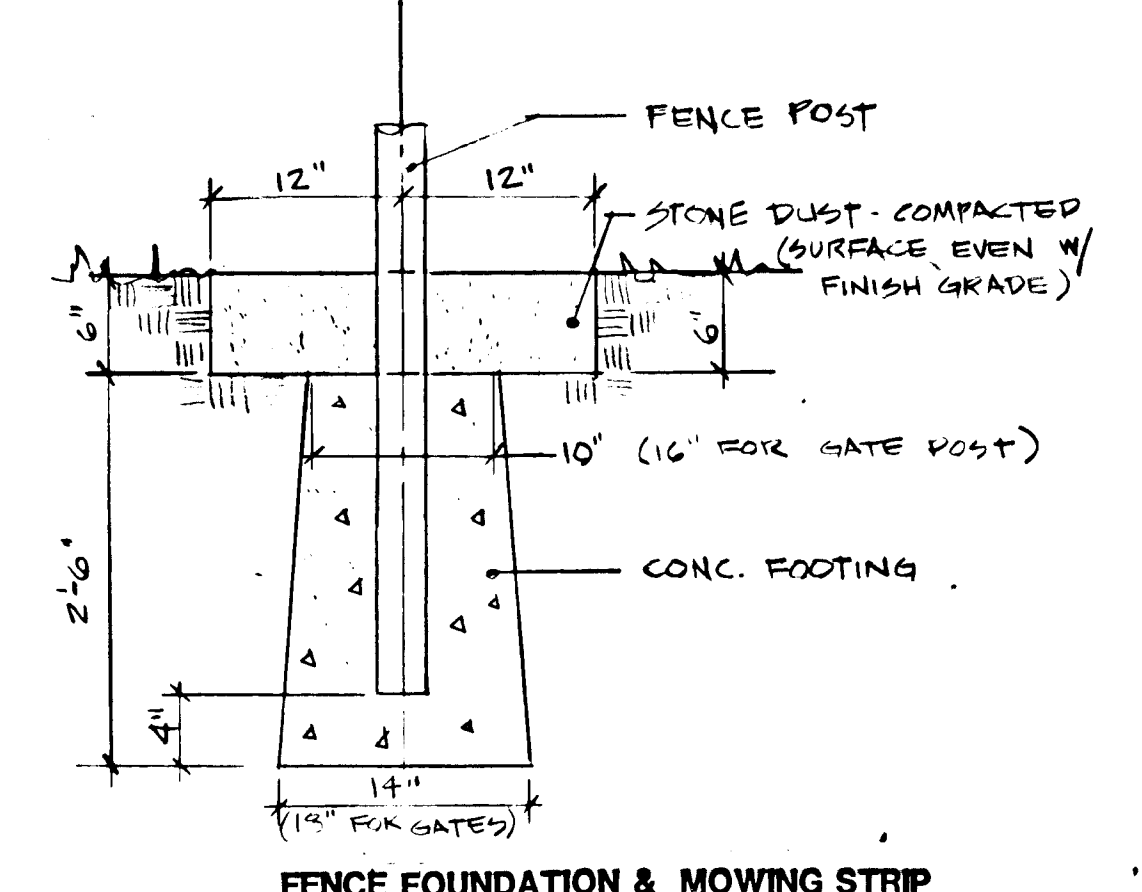


Fence NTS

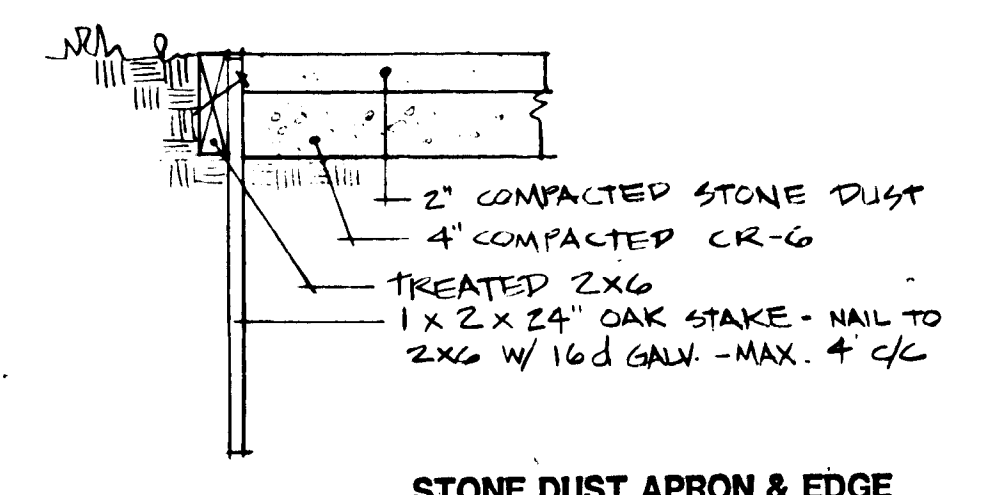


SECTION NTS

WARNING TRACK B
1" = 50'

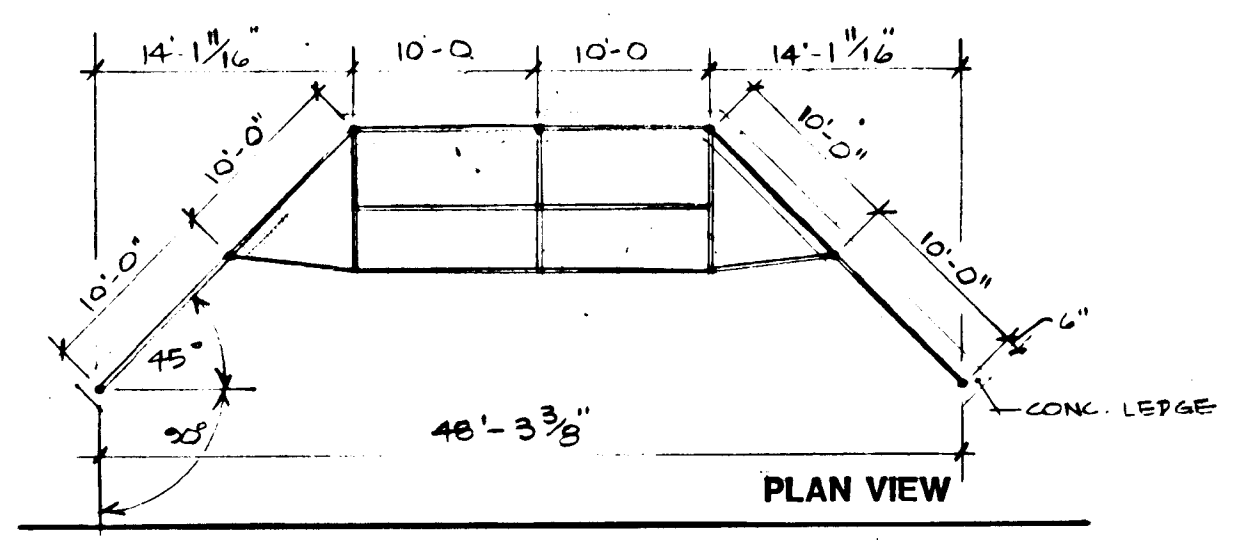


FENCE FOUNDATION & MOWING STRIP

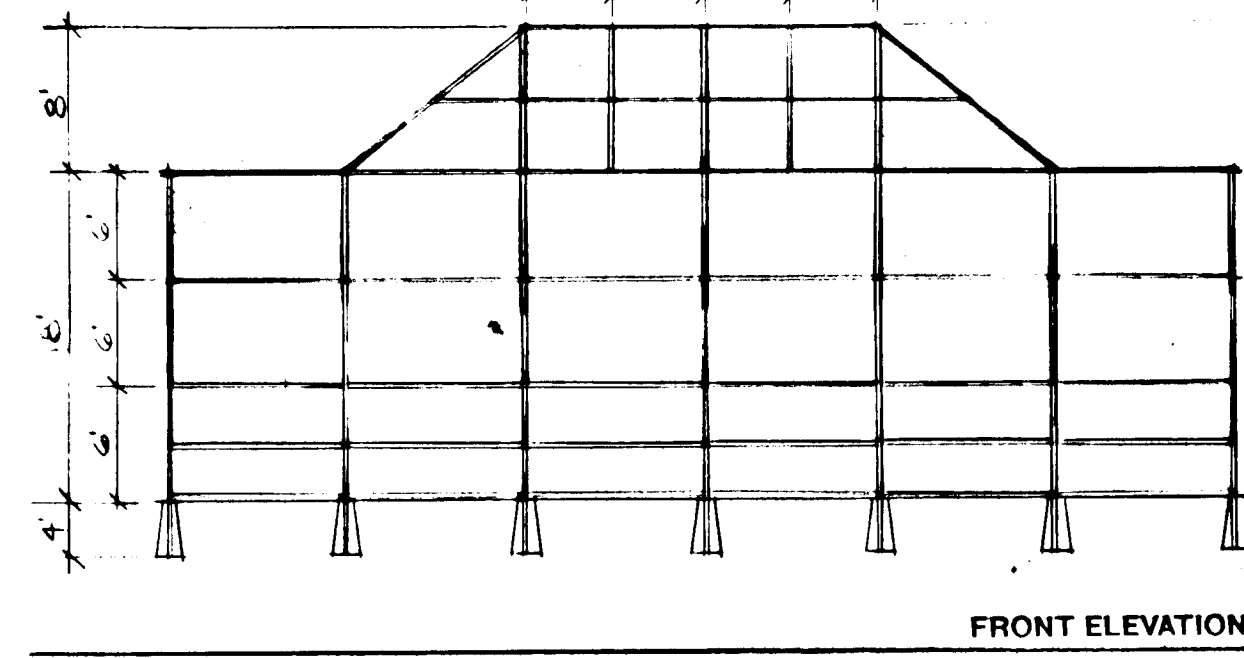


STONE DUST APRON & EDGE

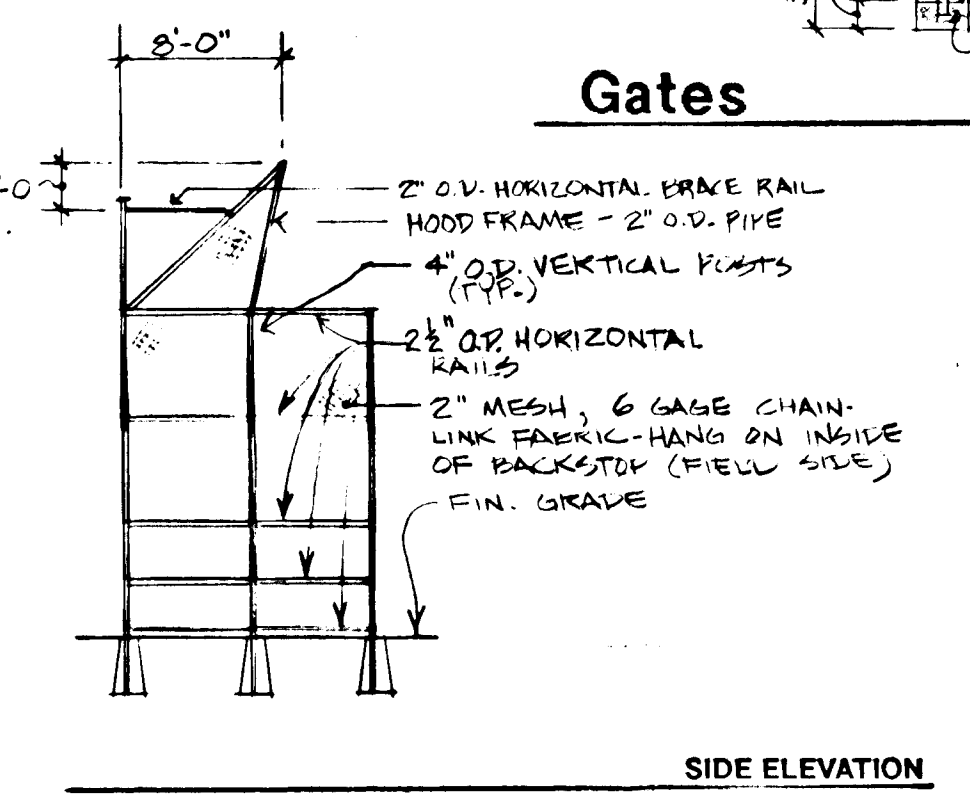
DETAILS C



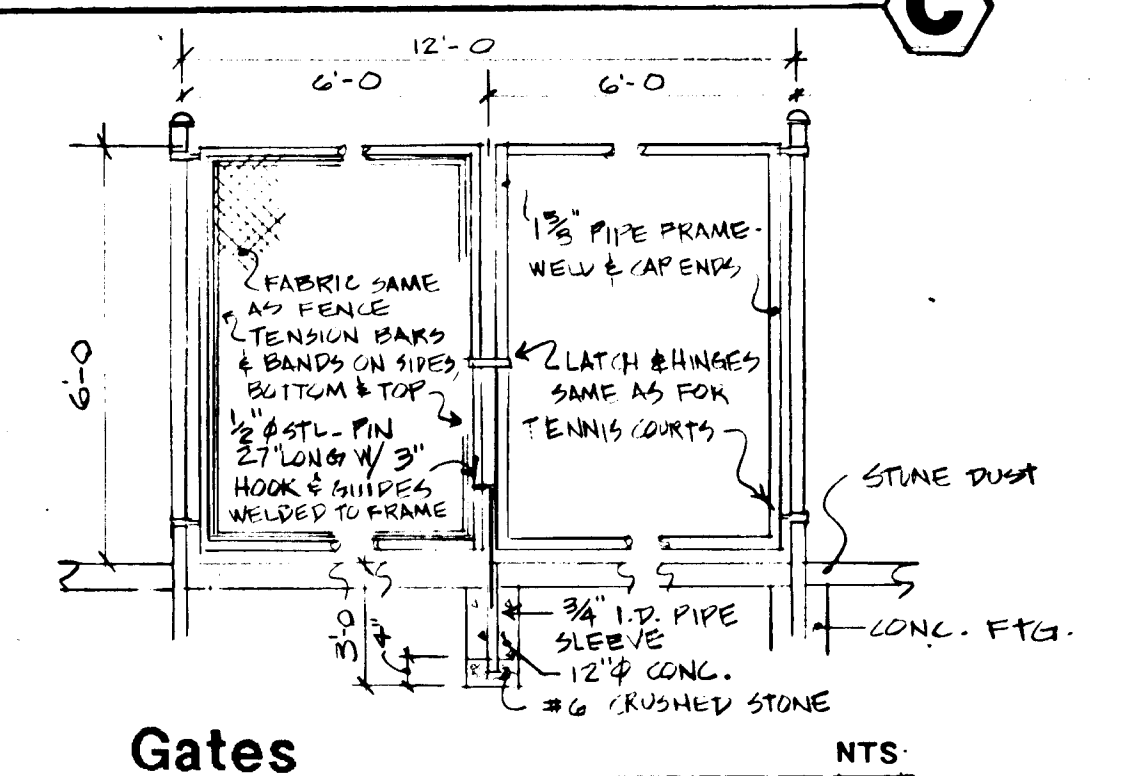
PLAN VIEW



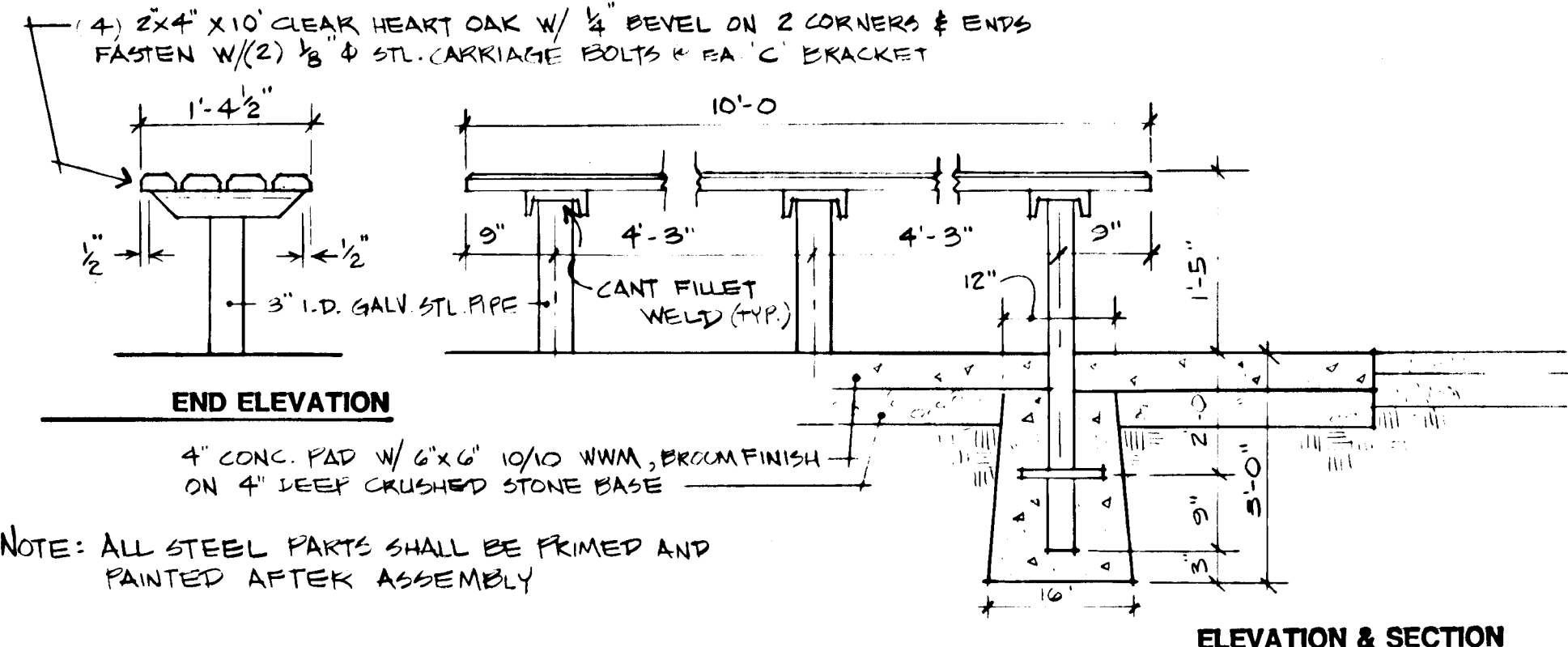
FRONT ELEVATION



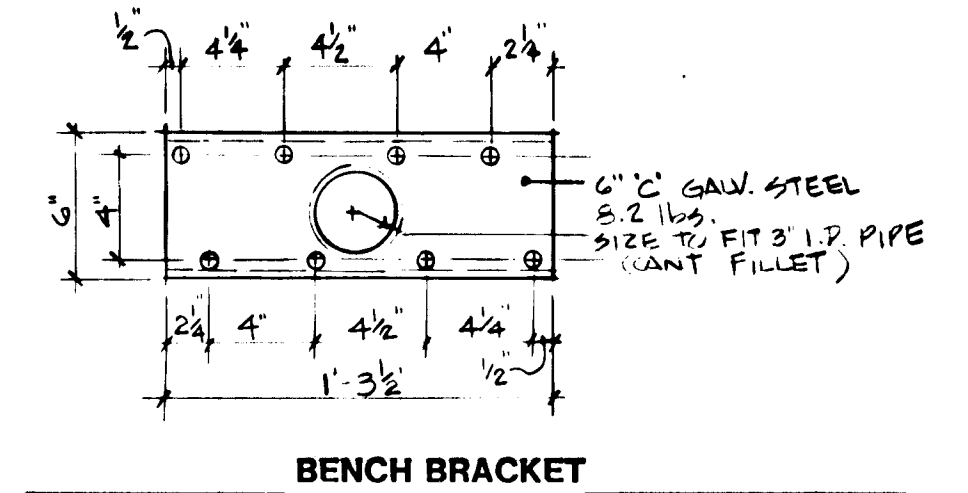
SIDE ELEVATION



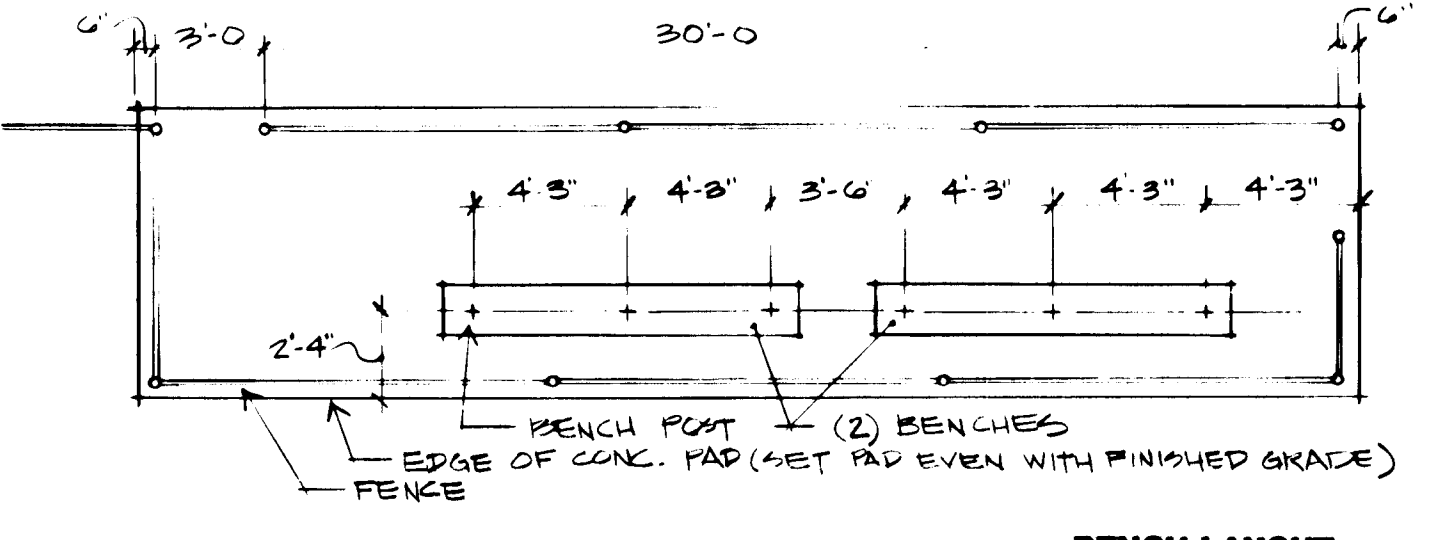
Gates NTS



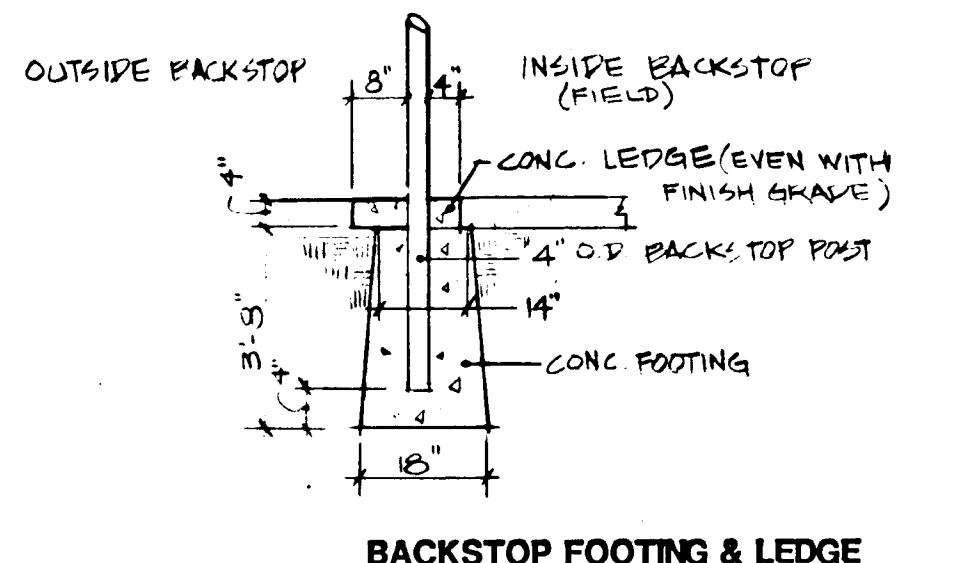
ELEVATION & SECTION



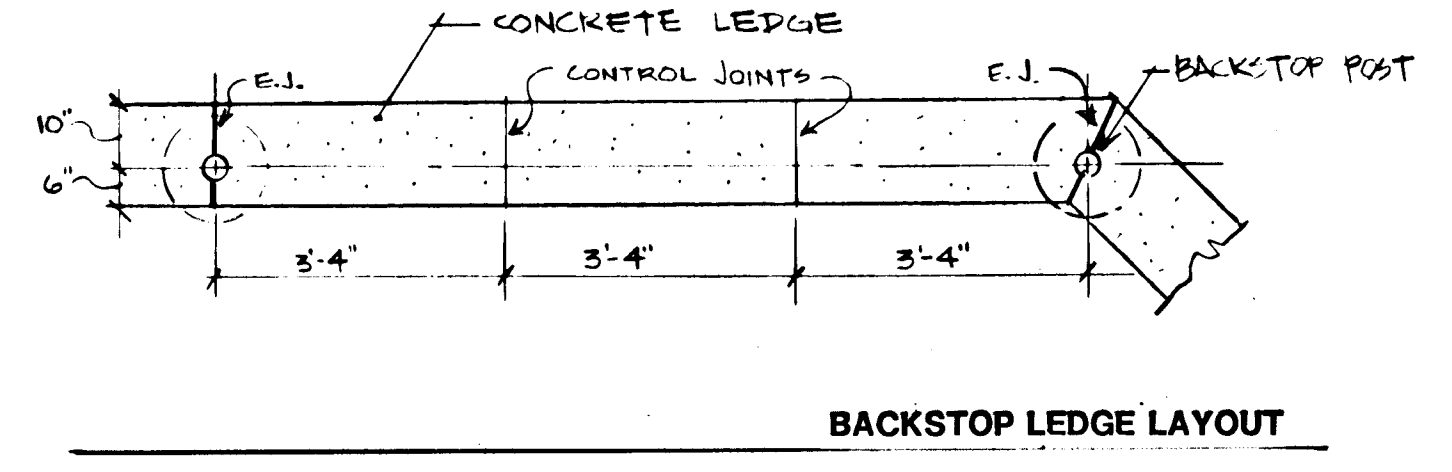
BENCH BRACKET



BENCH LAYOUT



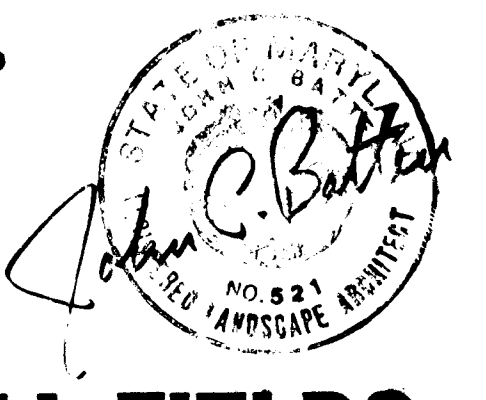
BACKSTOP FOOTING & LEDGE

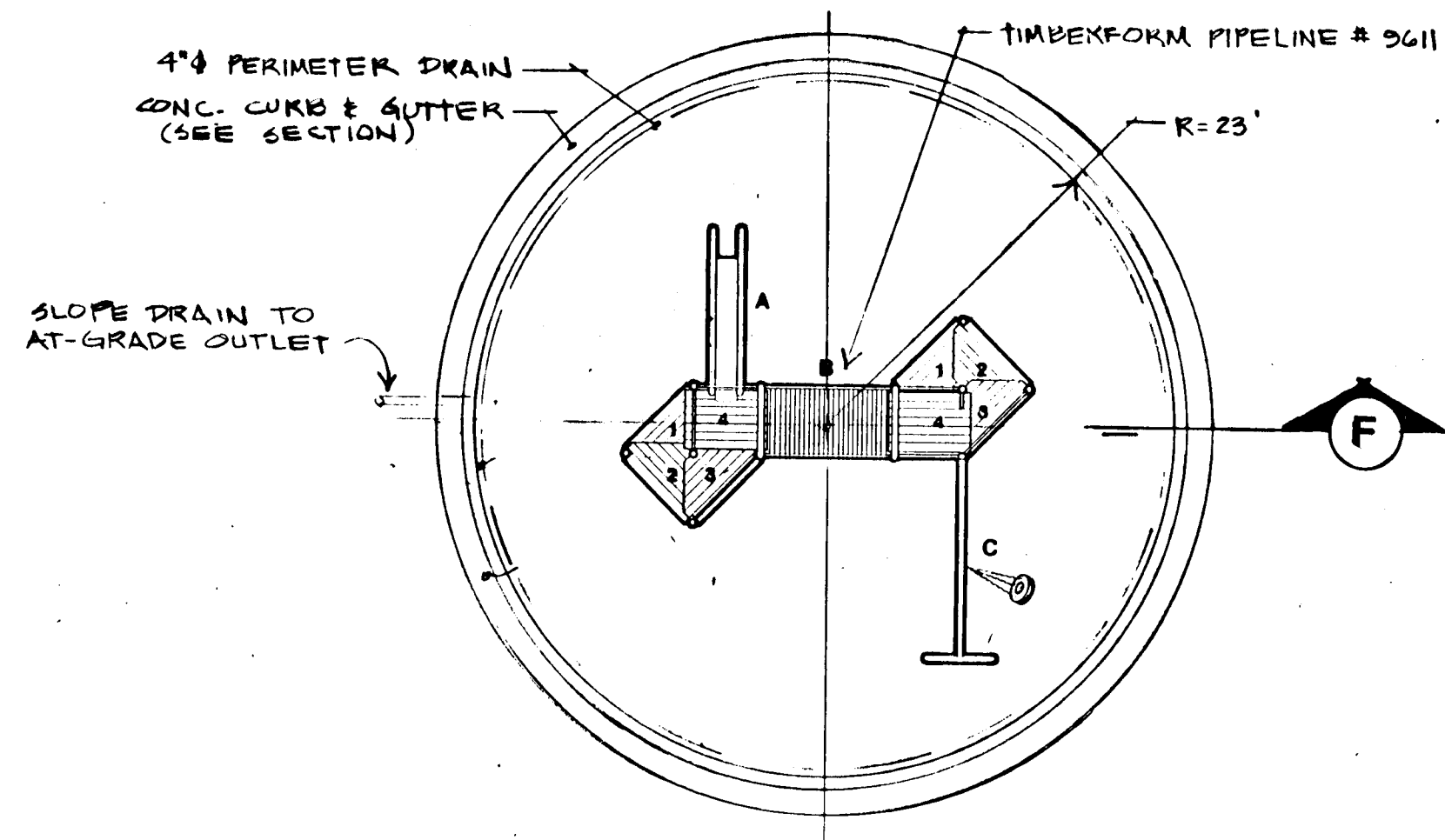


BACKSTOP LEDGE LAYOUT

BACKSTOP E
NTS

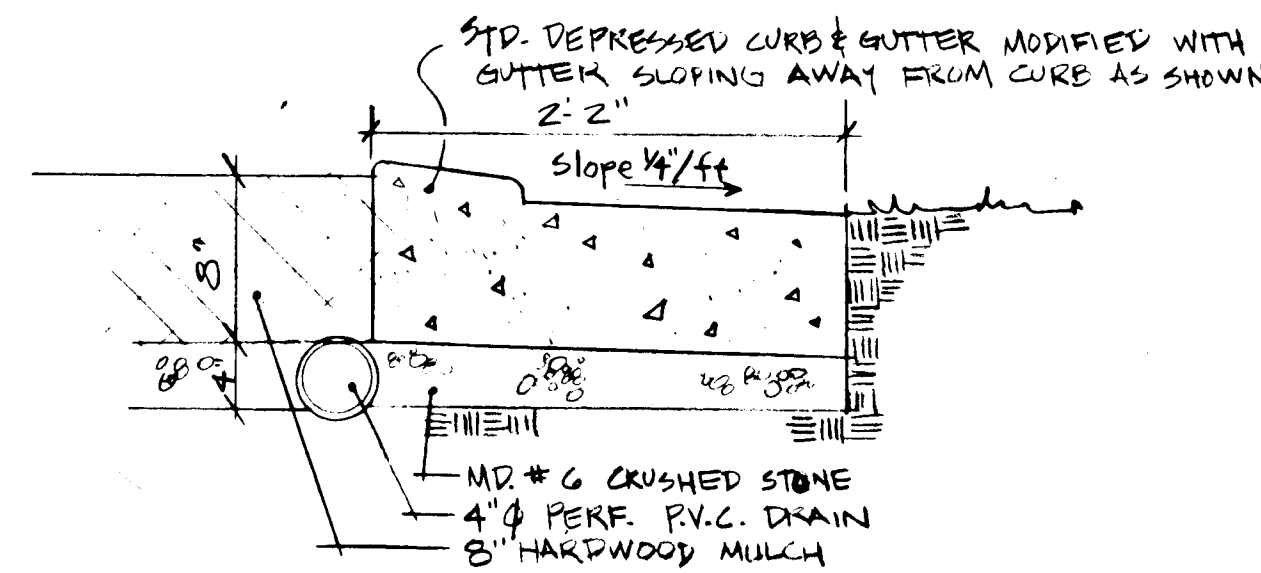
PLAYER BENCH & PAD D
NTS





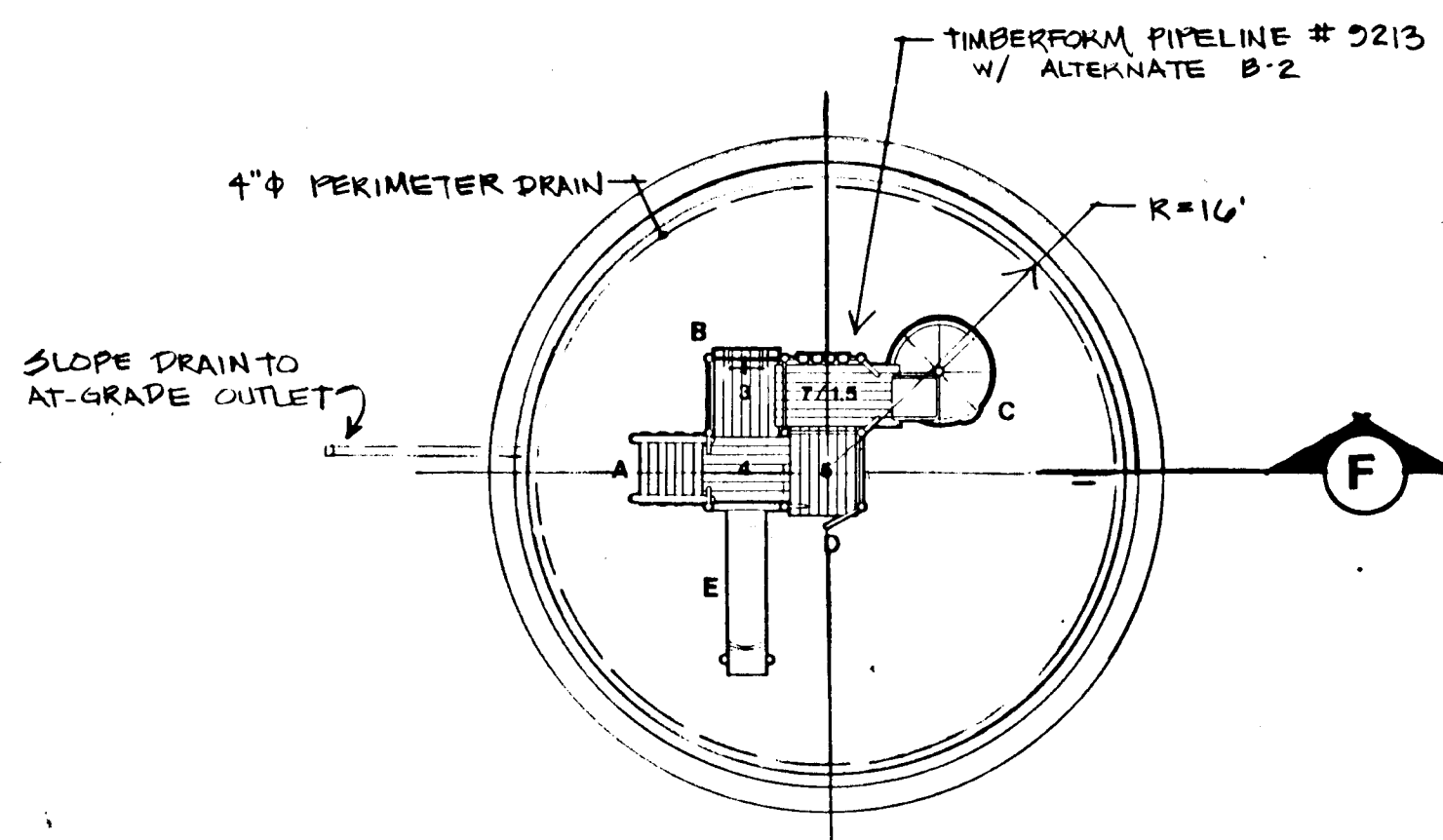
TOT LOT #1

1"=10'



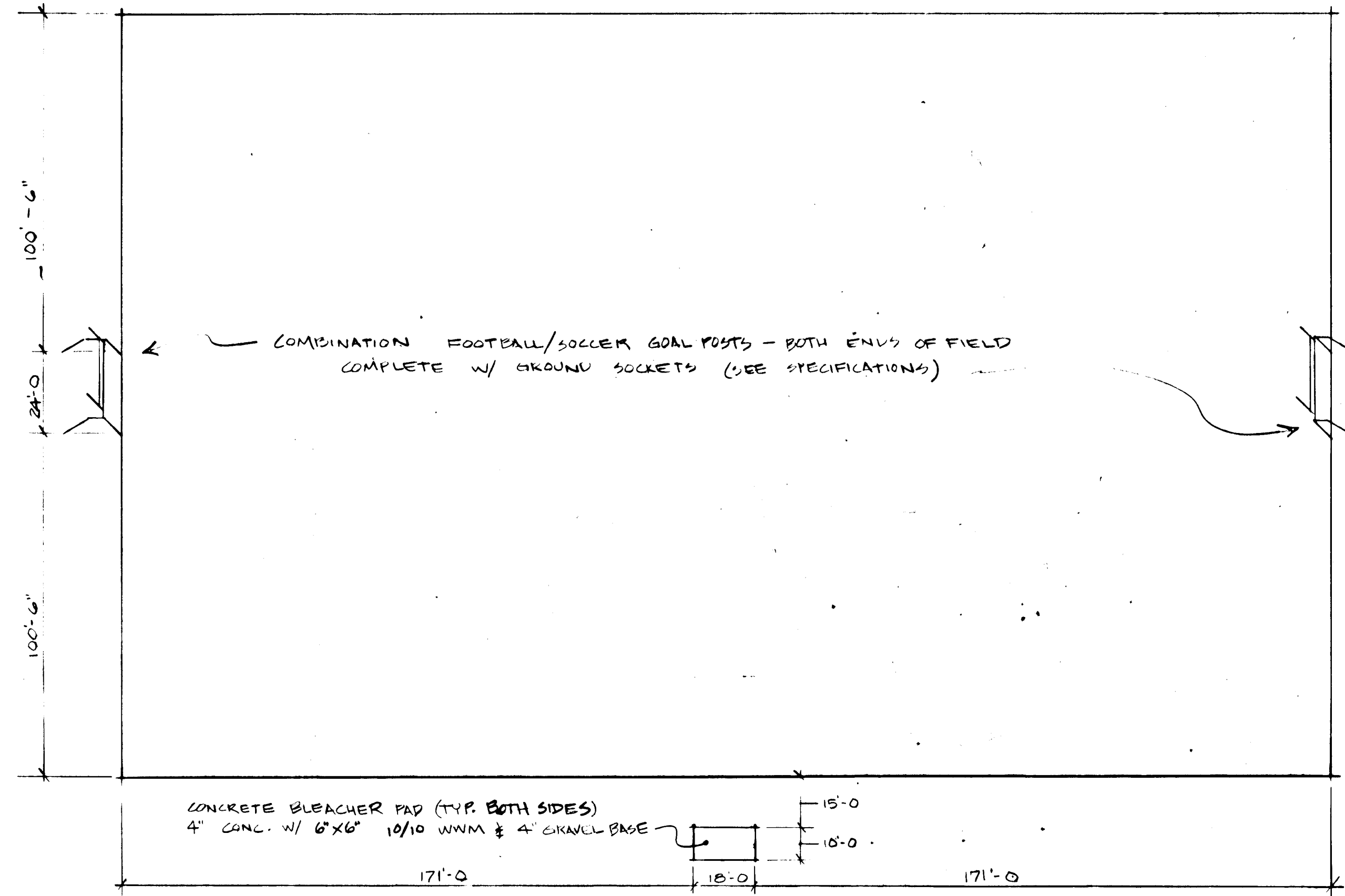
Section F

NTS



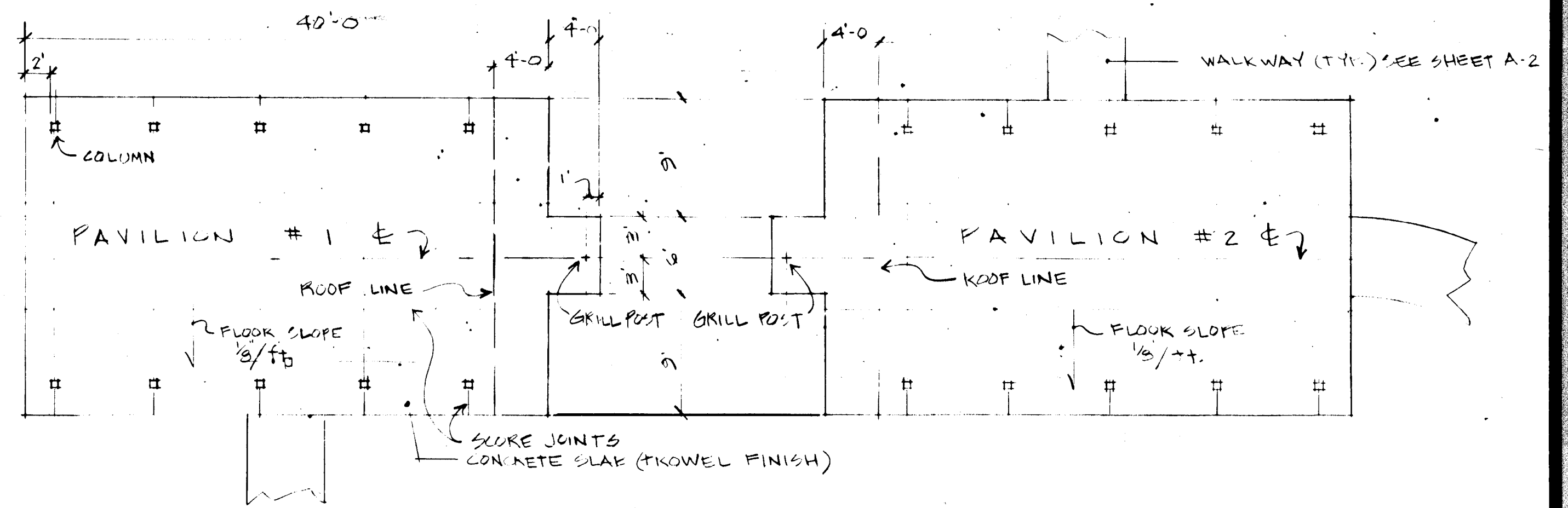
TOT LOT #2

1"=10'

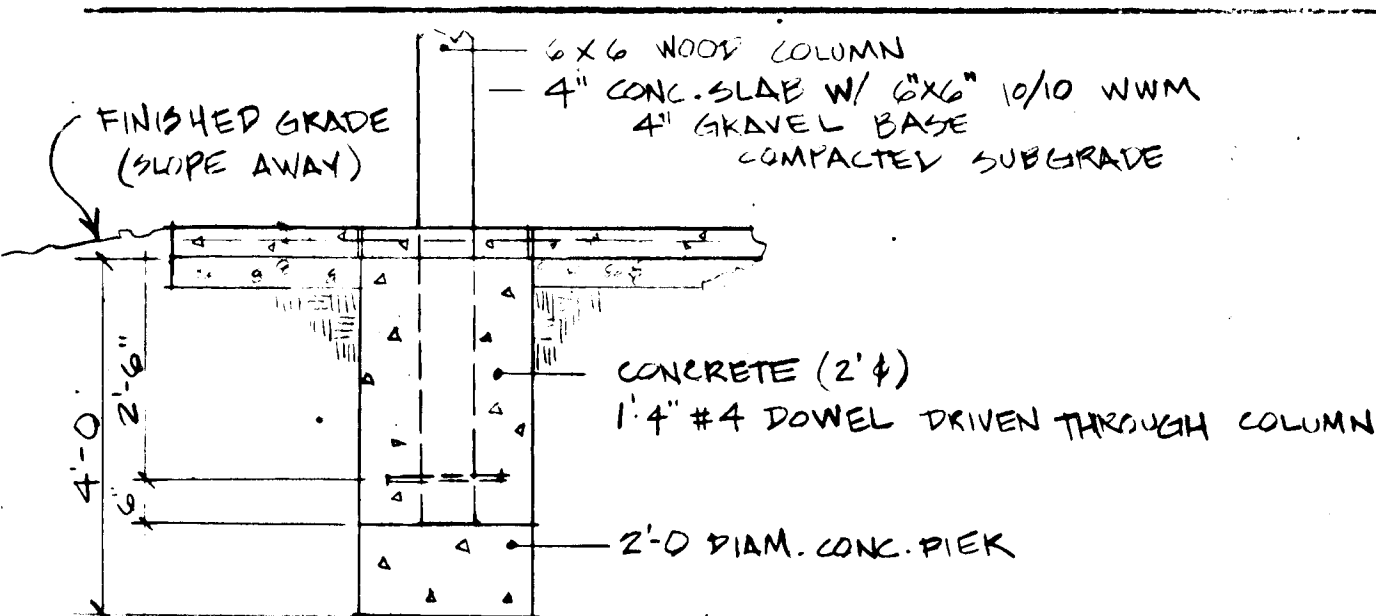


SOCCER FIELD

1"=30'



LAYOUT PLANS



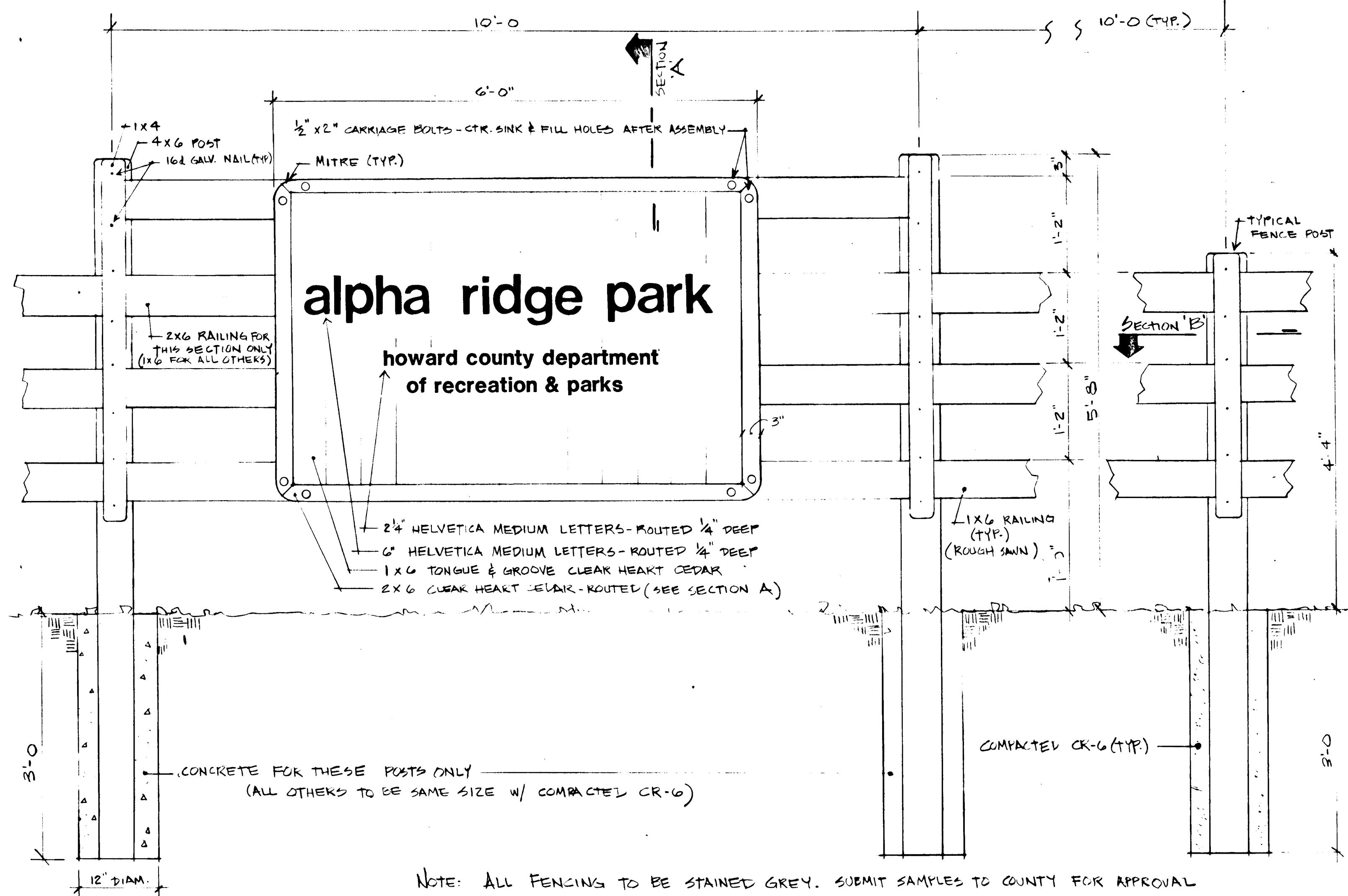
POST FOUNDATION & SLAB

NTS

PAVILIONS

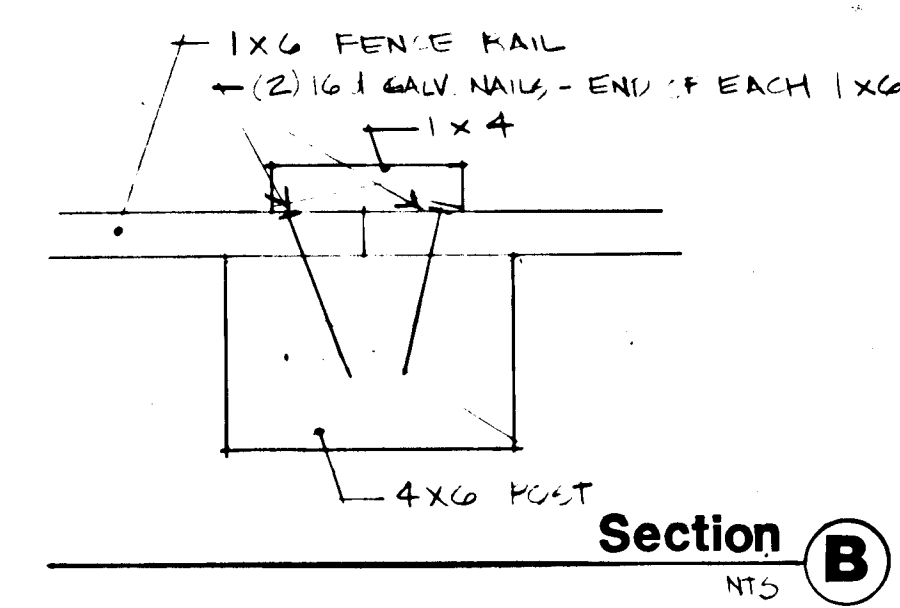
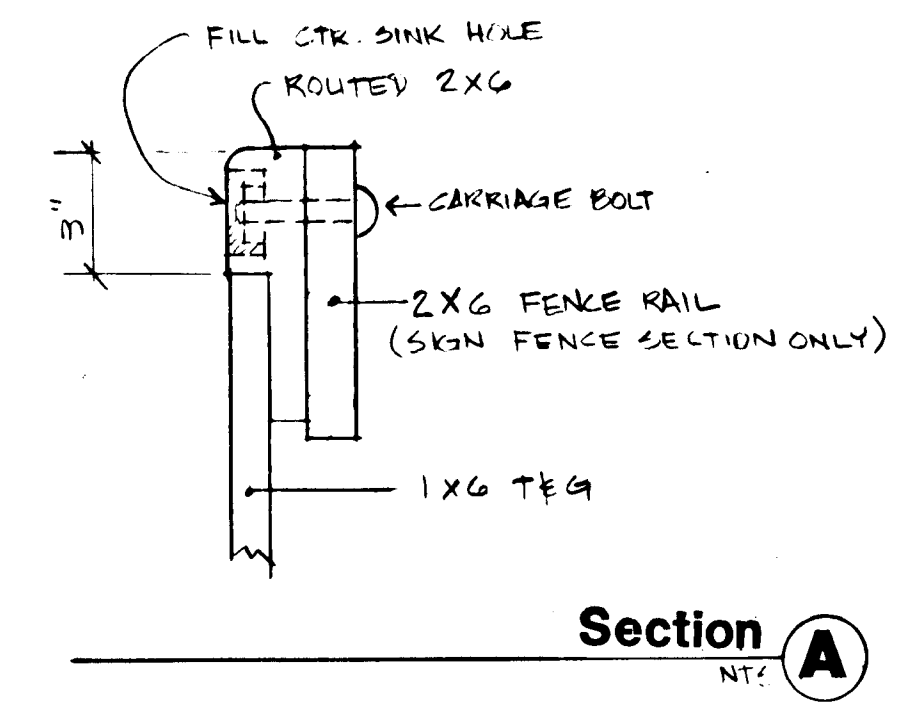
PAVILIONS • SOCCER FIELDS • TOT LOTS

XXAL-92-A007

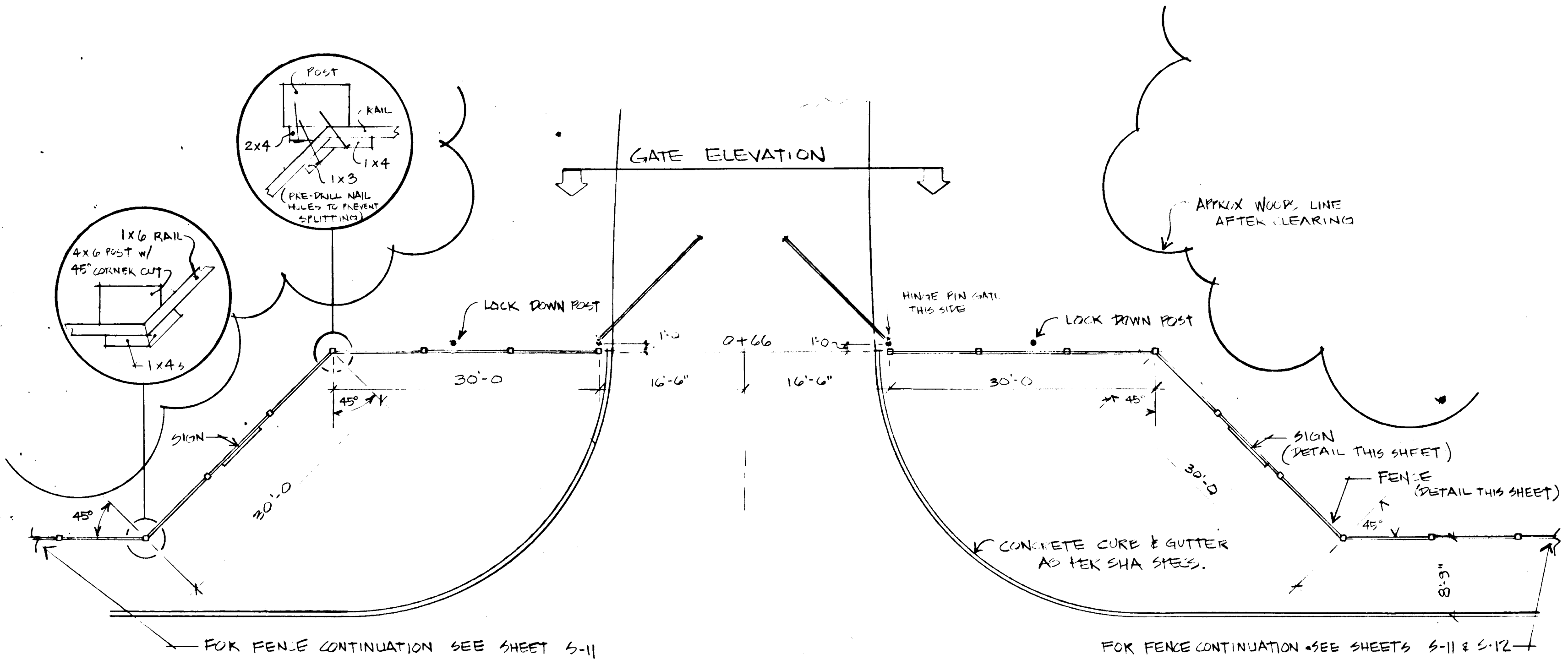
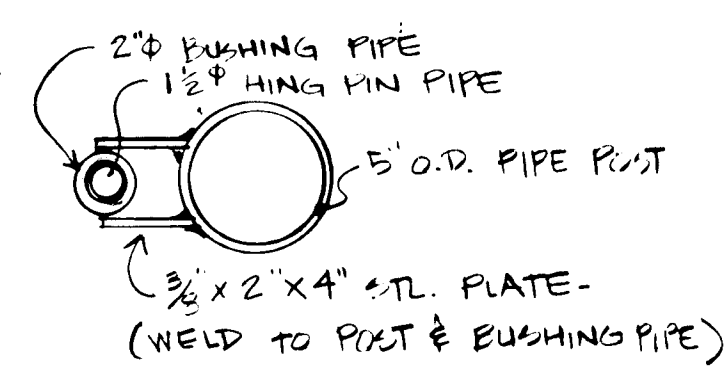
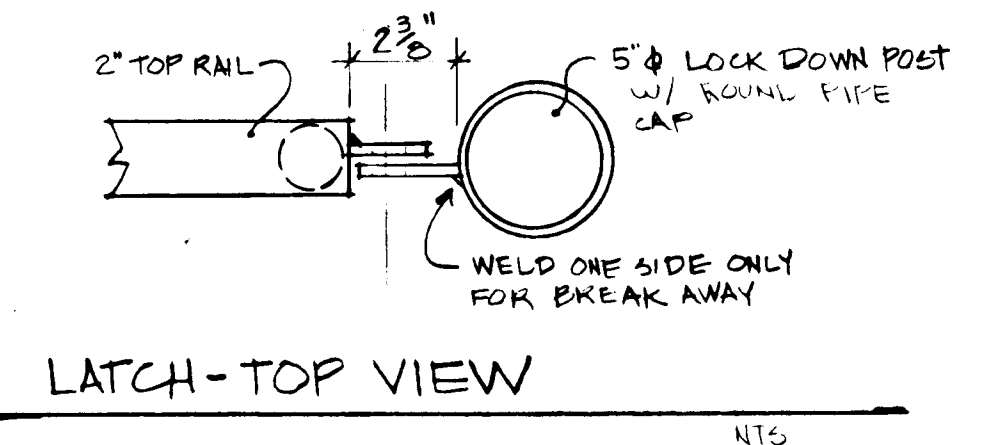
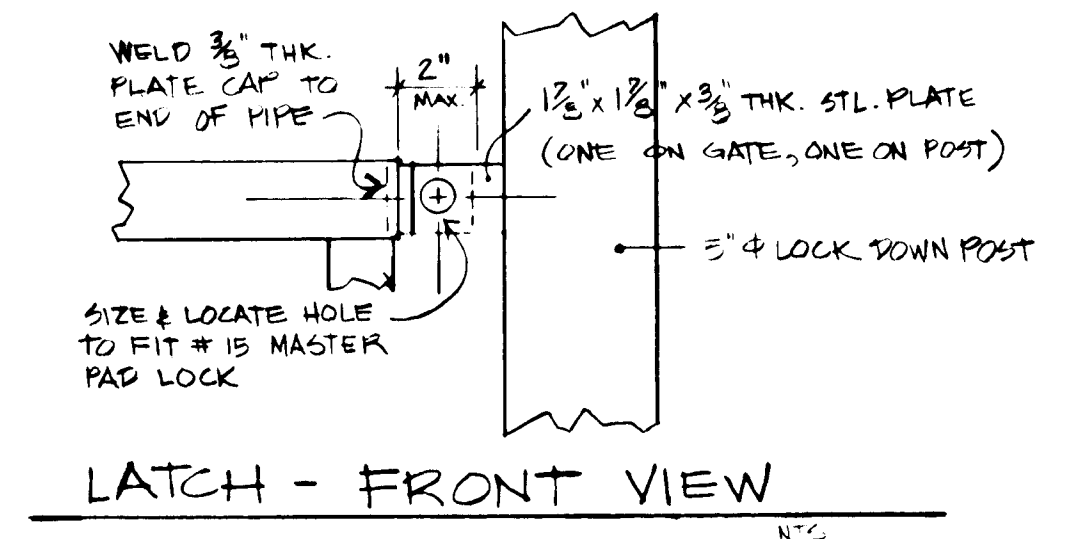
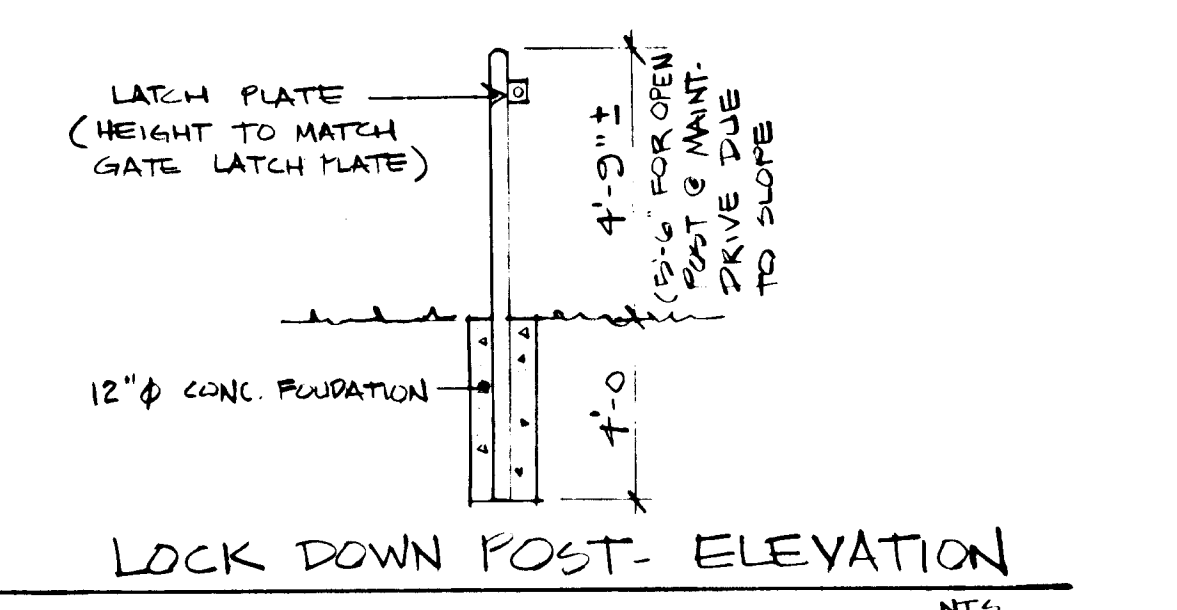


NOTE: ALL FENCING TO BE STAINED GREY. SUBMIT SAMPLES TO COUNTY FOR APPROVAL

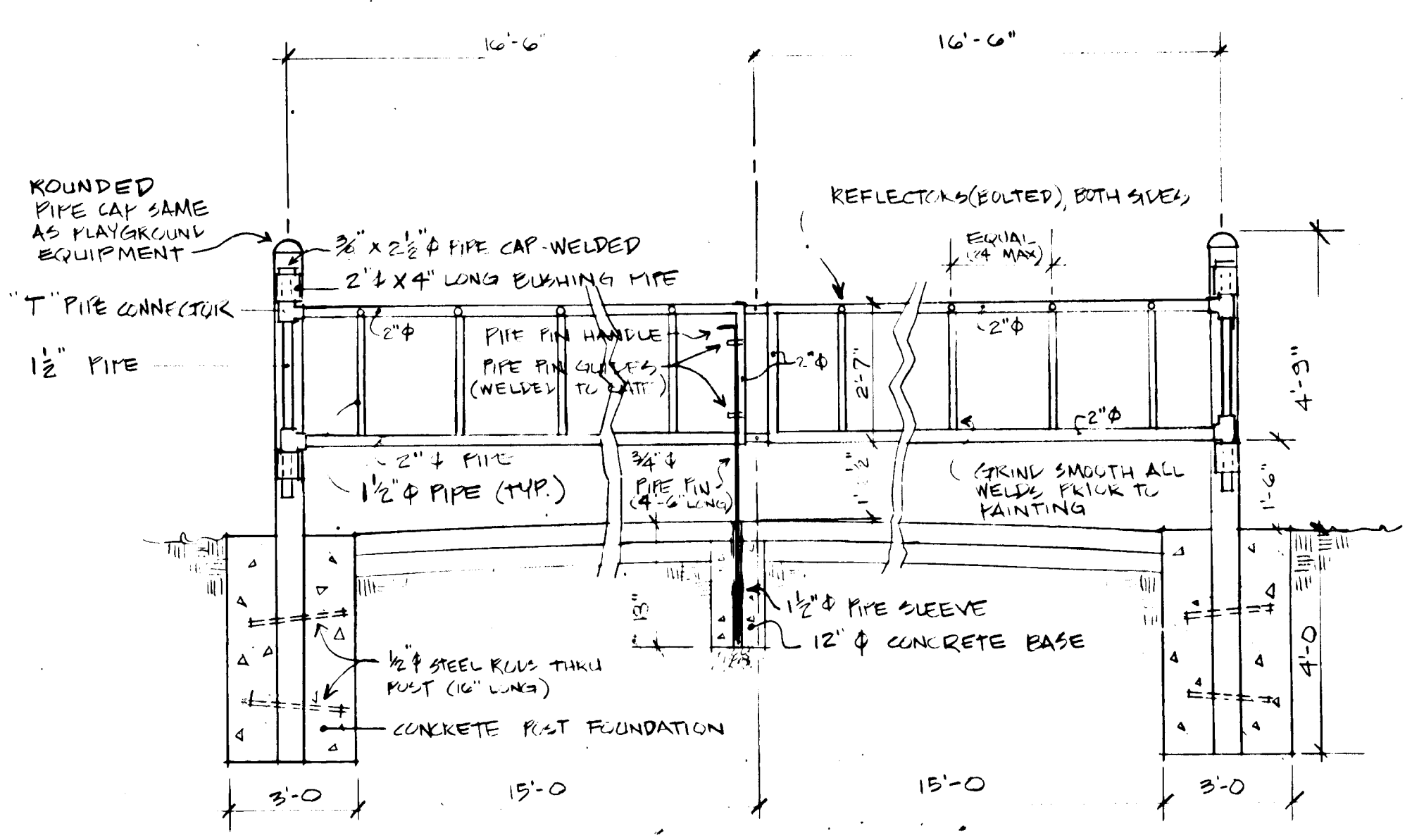
ENTRANCE SIGN & FENCE **B**



NOTES: ALL FENCE BOARDS TO BE ROUGH SAWN.
POSTS SHALL BE CCA TREATED.
SIGN BOARDS TO BE WESLEY CLEAR HEART CEDAR



ENTRANCE LAYOUT **A**



NOTES: CONTRACTOR TO PROVIDE SHOP DRAWINGS OF GATE FOR OWNER'S APPROVAL
GATE AT MAINTENANCE DRIVE TO BE SAME AS ABOVE - SINGLE GATE WITH (2) LOCK DOWN POSTS REQUIRED - ONE FOR CLOSED POSITION & ONE FOR OPENED.

SWING GATE **C**



ENTRANCE - SIGN, FENCE & GATE

XXAL-92-A009

ALPHA RIDGE PARK Construction Drawings
CAPITAL PROJECT # N-3087
HOWARD COUNTY * DEPARTMENT OF RECREATION & PARKS * DEPARTMENT OF PUBLIC WORKS

J. CHRISTOPHER BATTEN, INC.
Land Planning & Design Consultant

301-876-3383

January 25, 1992

SHEET

A-9

APPROVALS

HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____

APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

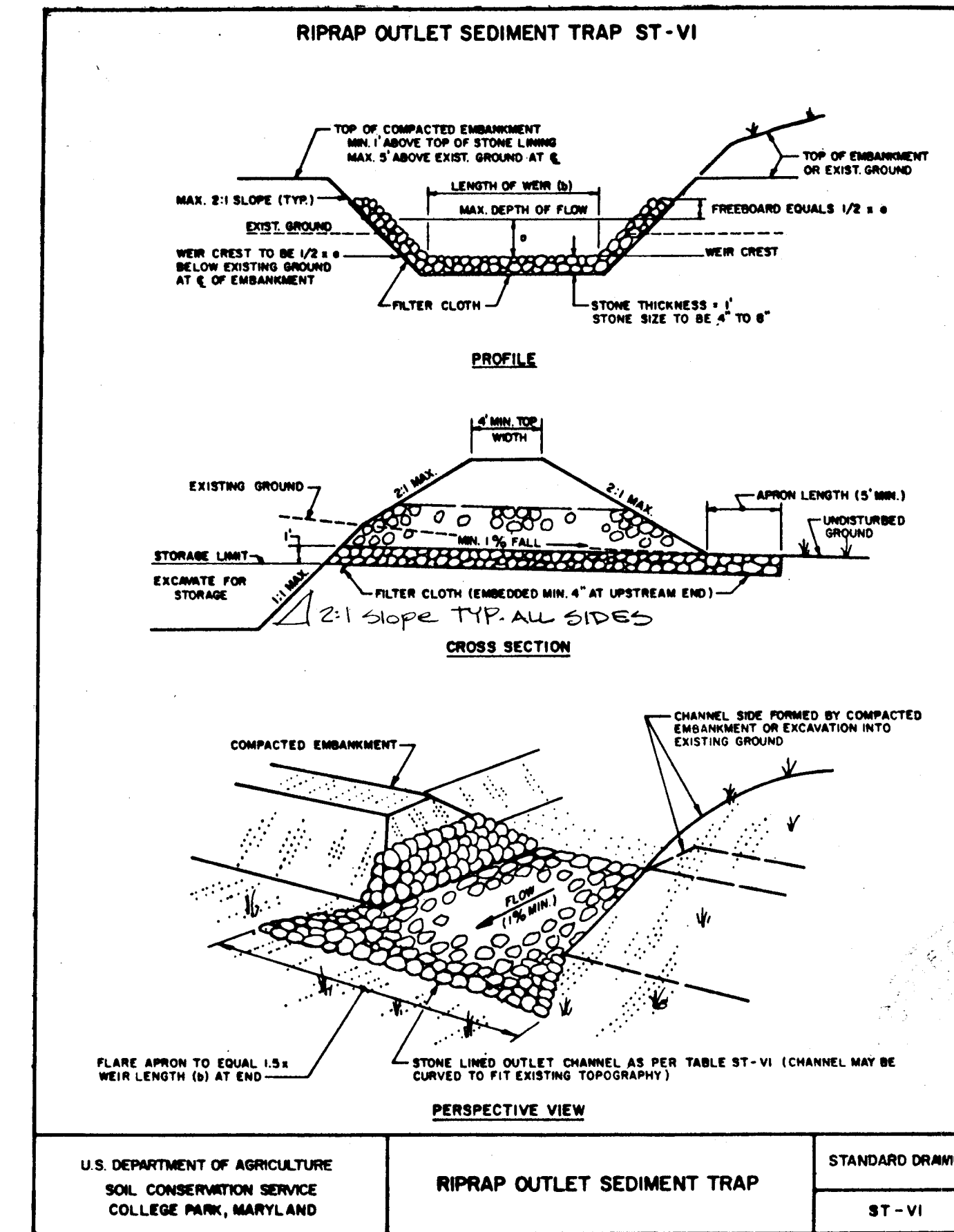
SEPTEMBER 21, 1989



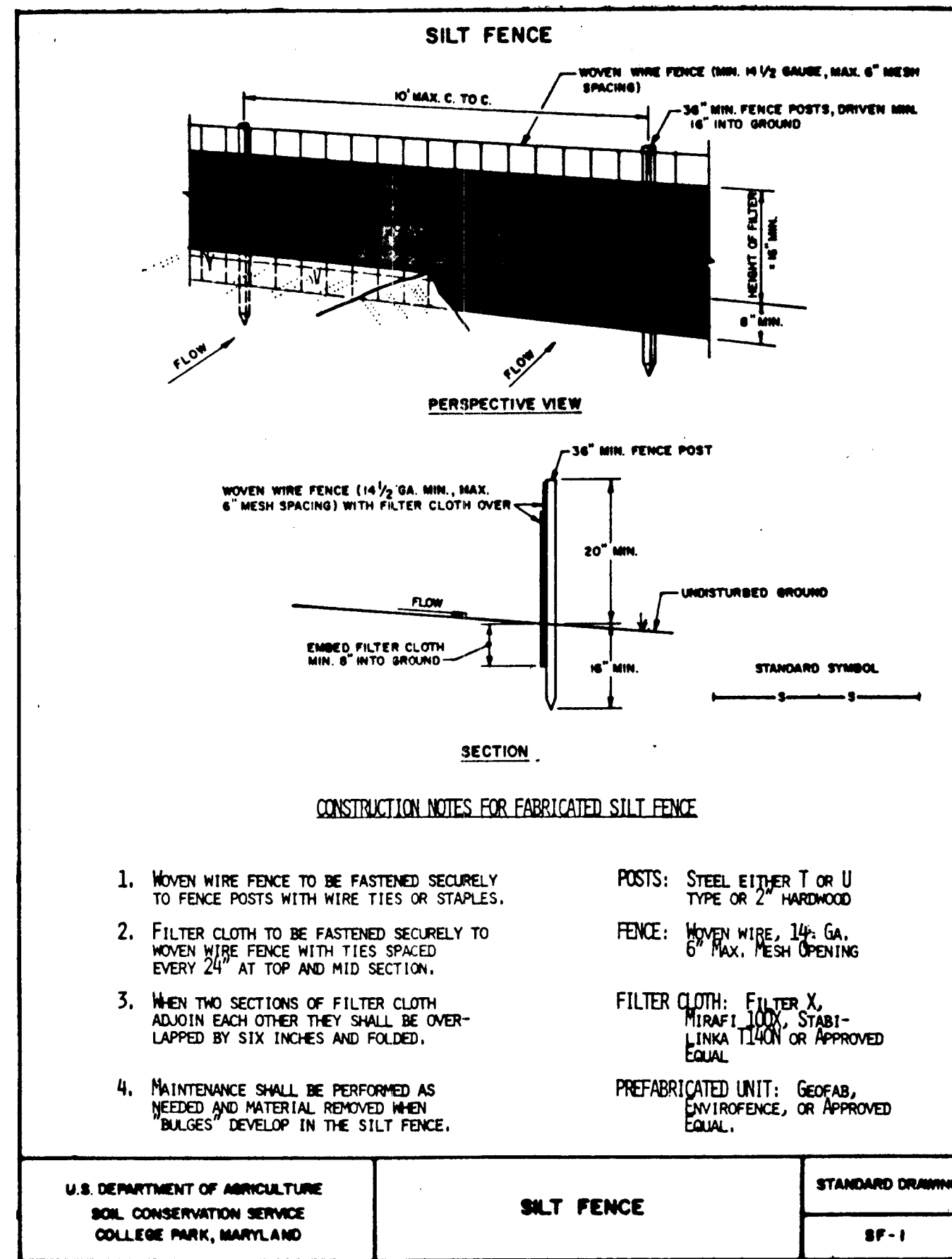
SHEET

D-1

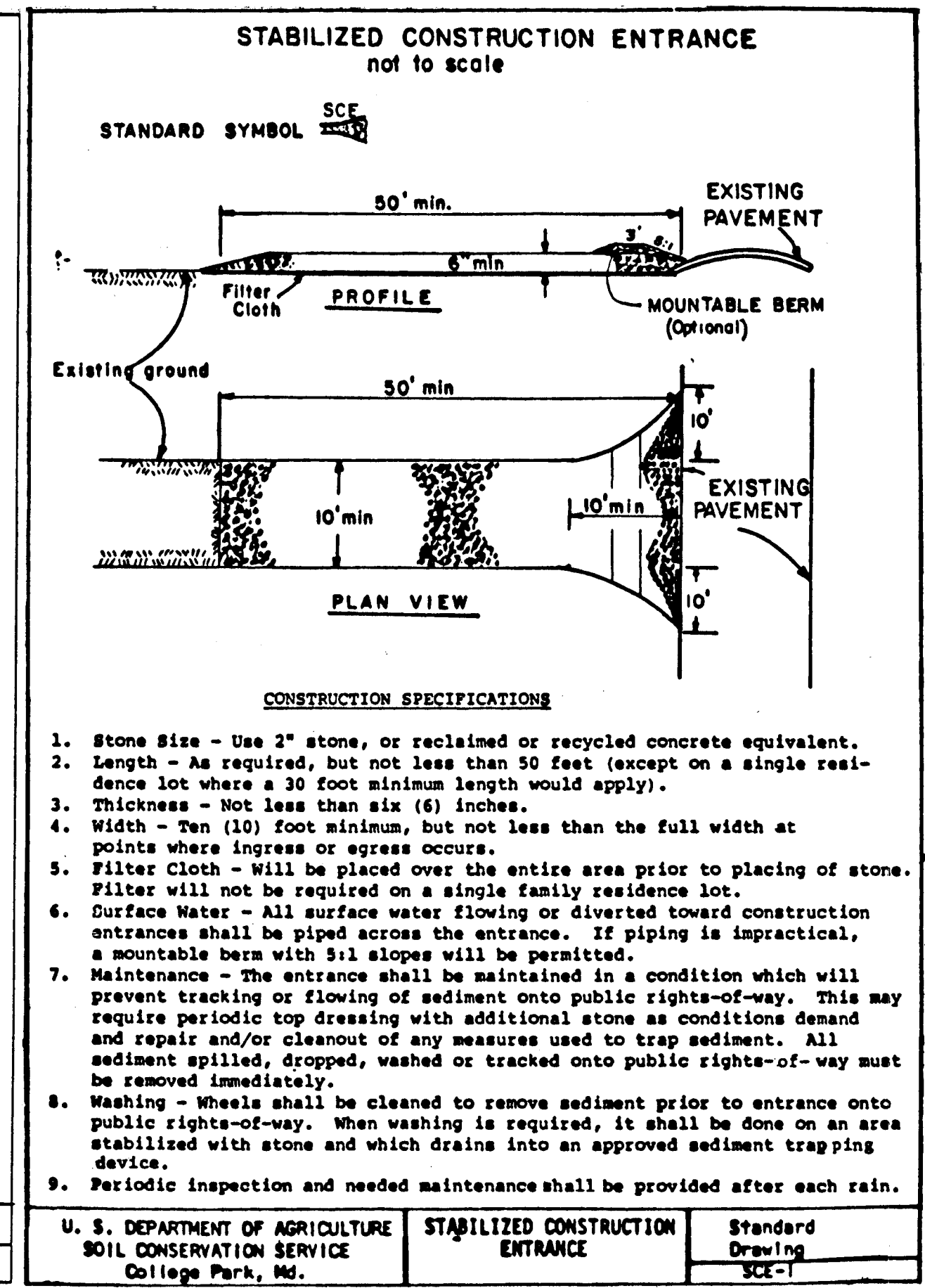
405 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3383



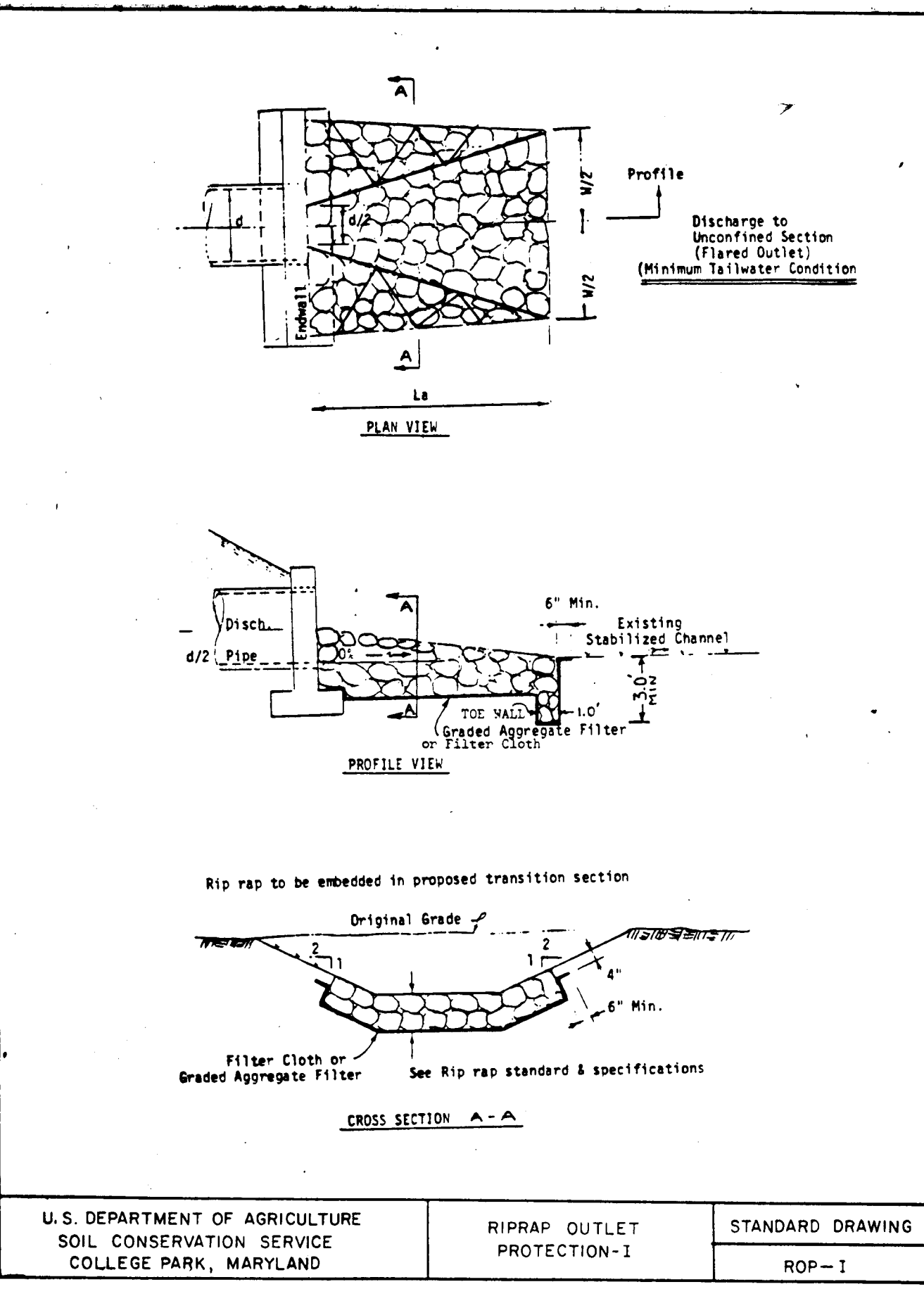
U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND
RIPRAP OUTLET SEDIMENT TRAP
 STANDARD DRAWING
 ST-VI



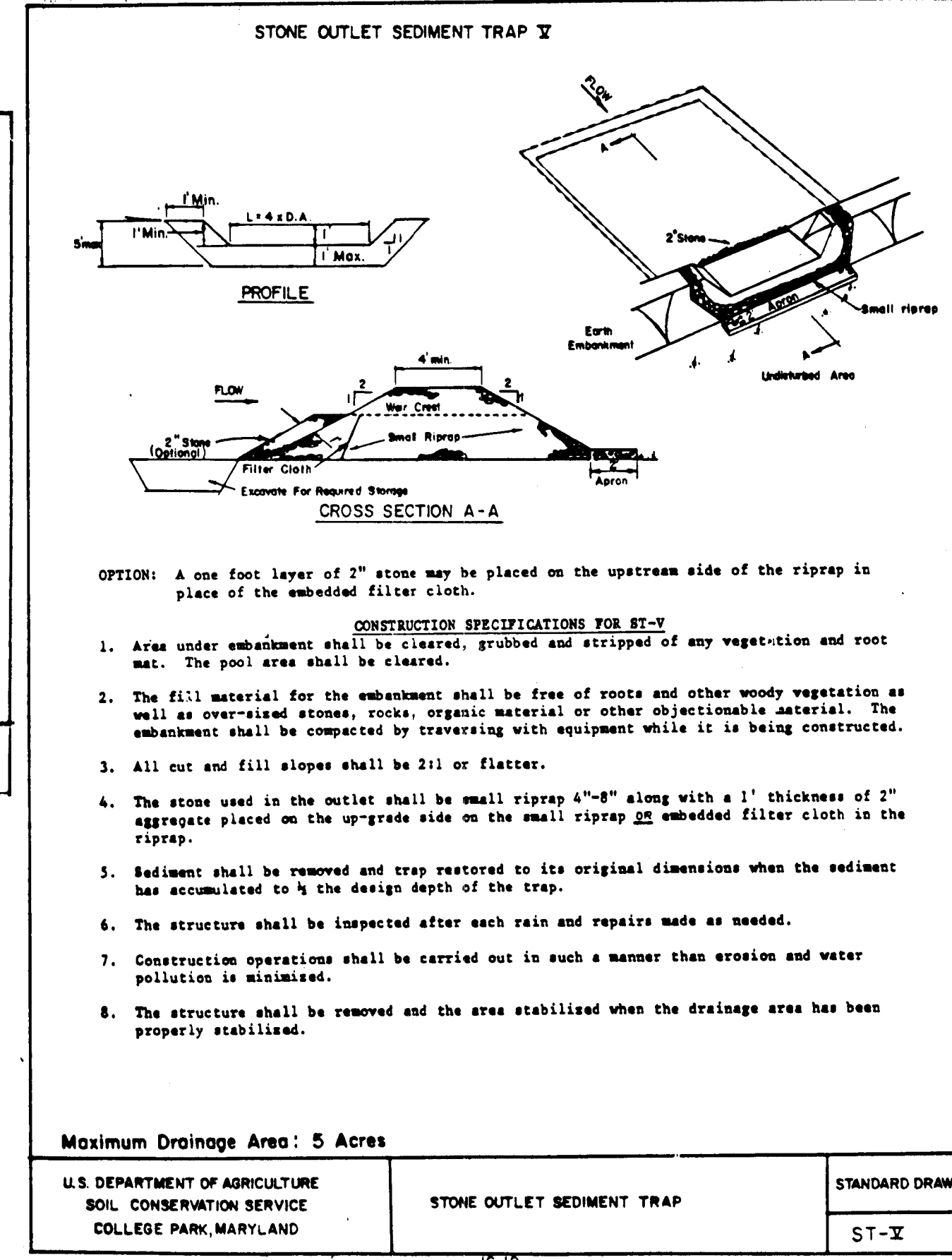
U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND
SILT FENCE
 STANDARD DRAWING
 SF-1



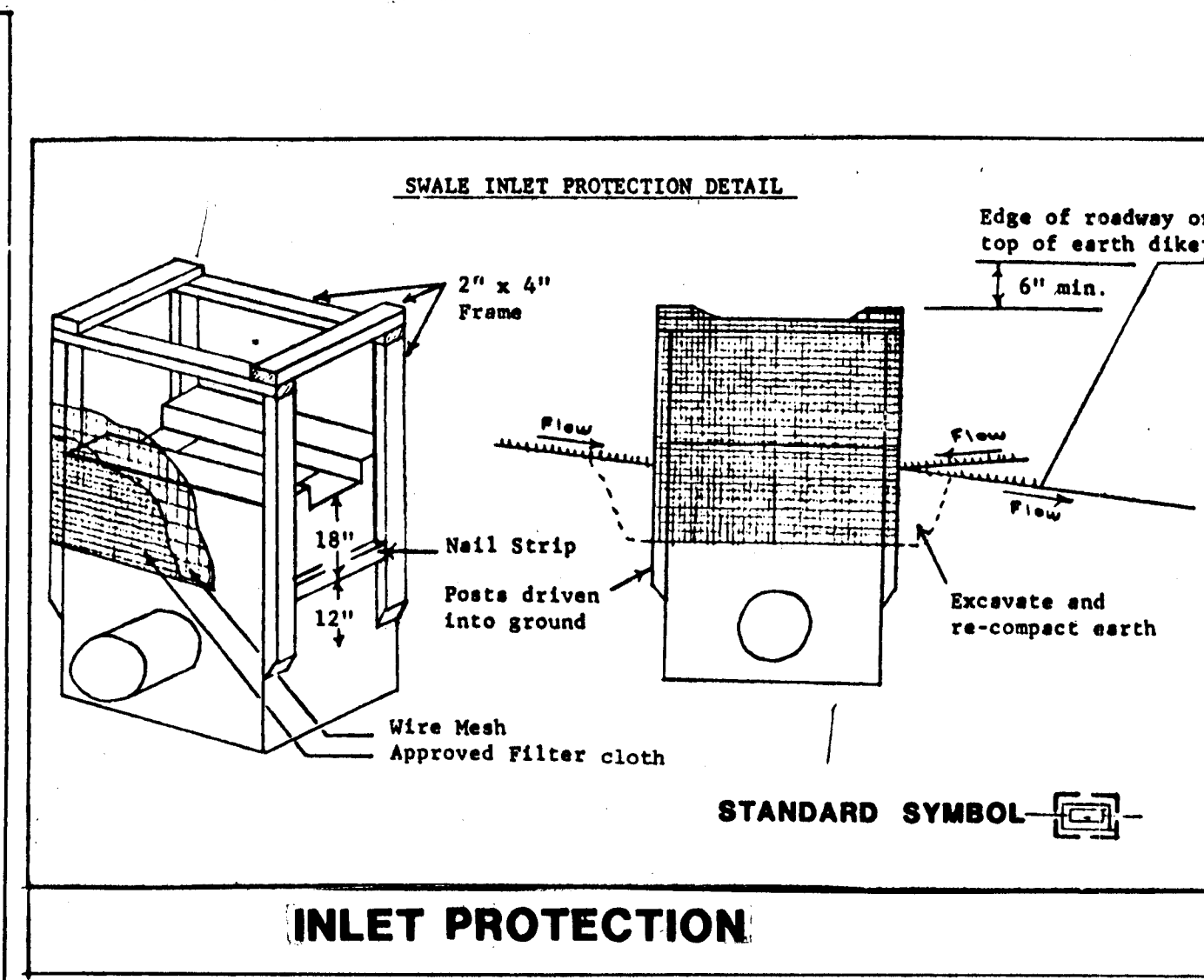
U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 College Park, Md.
STABILIZED CONSTRUCTION ENTRANCE
 Standard Drawing
 SCE-1



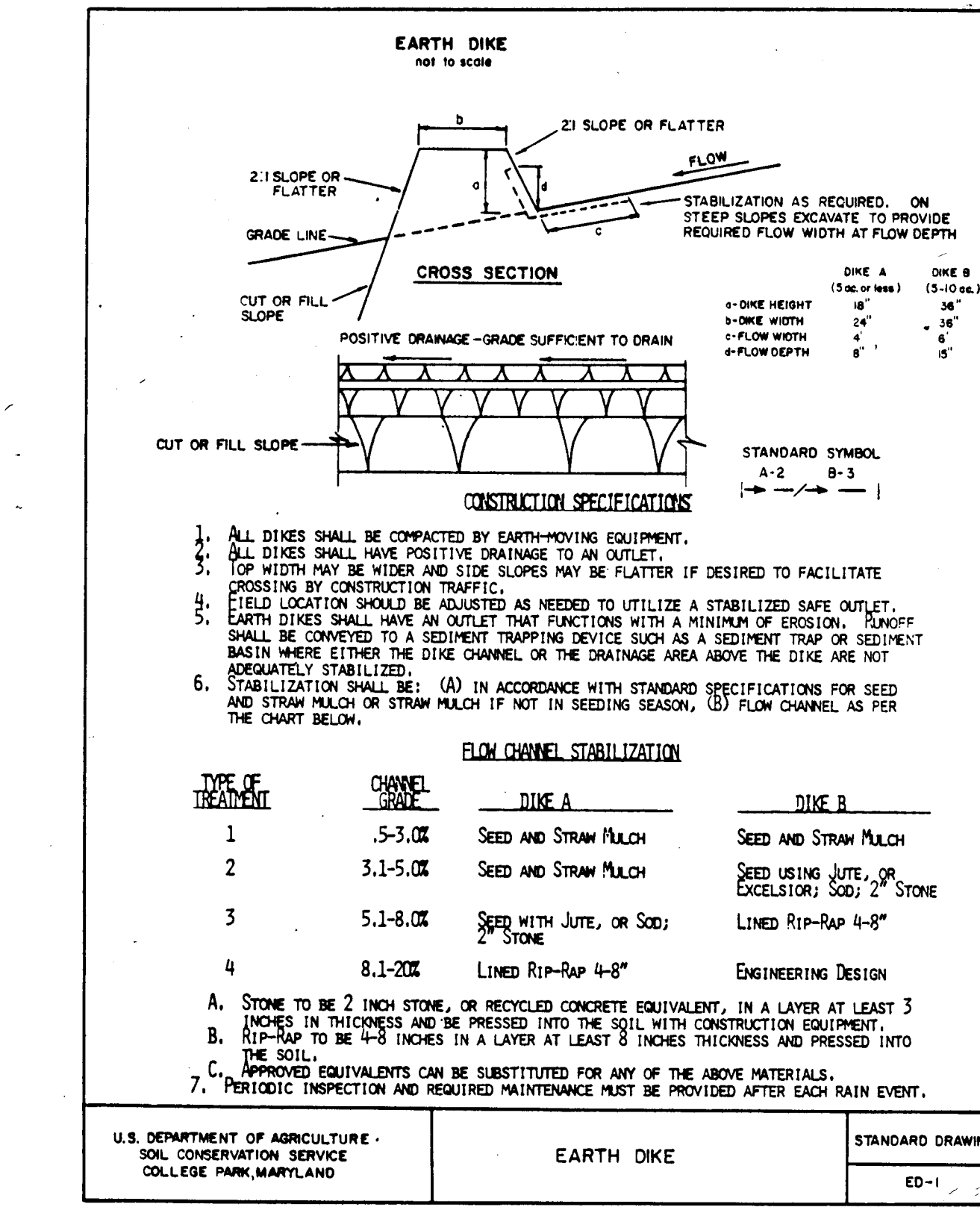
U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND
RIPRAP OUTLET PROTECTION-I
 STANDARD DRAWING
 ROP-1



U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND
STONE OUTLET SEDIMENT TRAP
 STANDARD DRAWING
 ST-X



INLET PROTECTION



U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND
EARTH DIKE
 STANDARD DRAWING
 ED-1

SEDIMENT CONTROL DETAILS

CERTIFICATION
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer _____ Date _____

"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."
 Signature of Landscape Architect _____ Date _____
 John C. Batten

Reviewed for HOWARD S.C.D. and meets Technical Requirements

U.S. Soil Conservation Service Date _____

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

Howard S.C.D. Date _____

APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____



APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

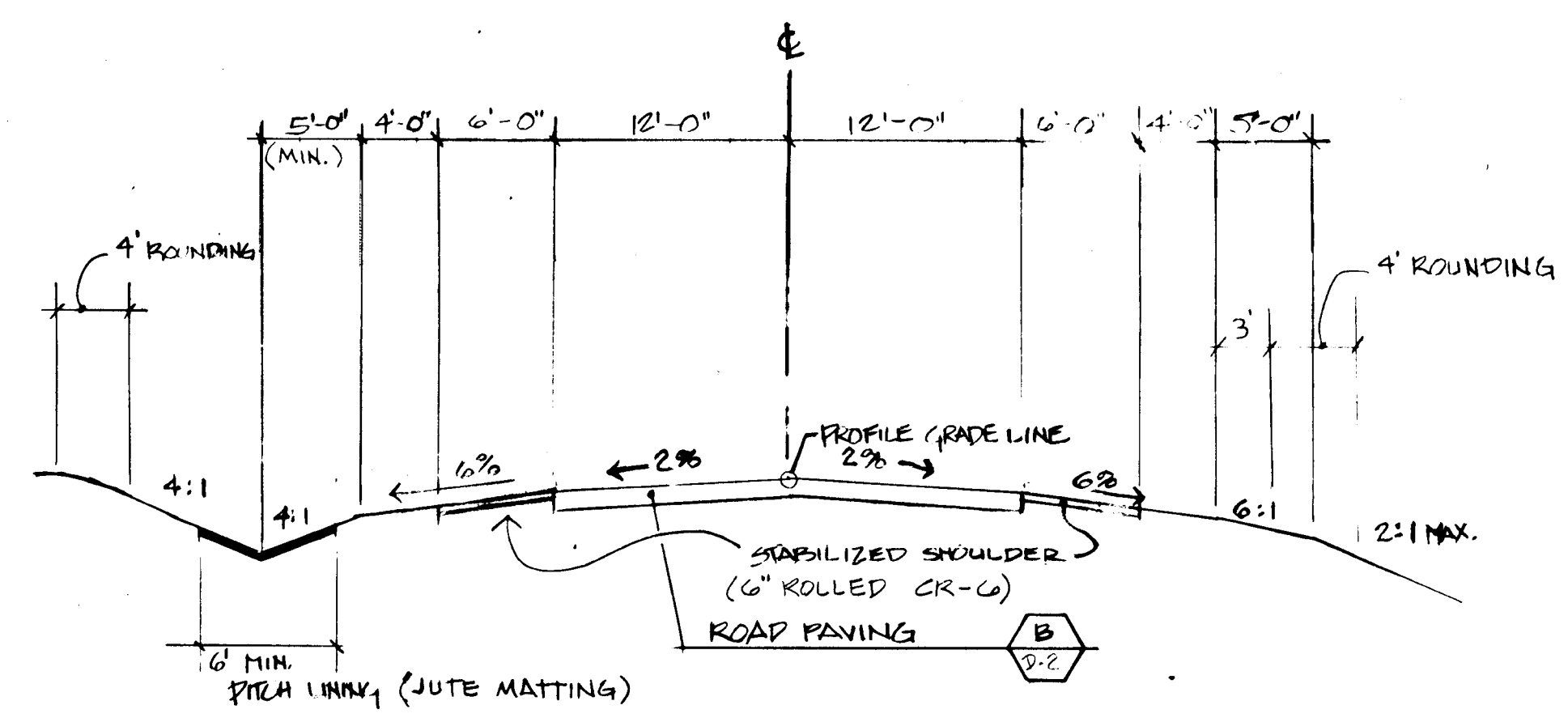
SEPTEMBER 21, 1989

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 405 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3383

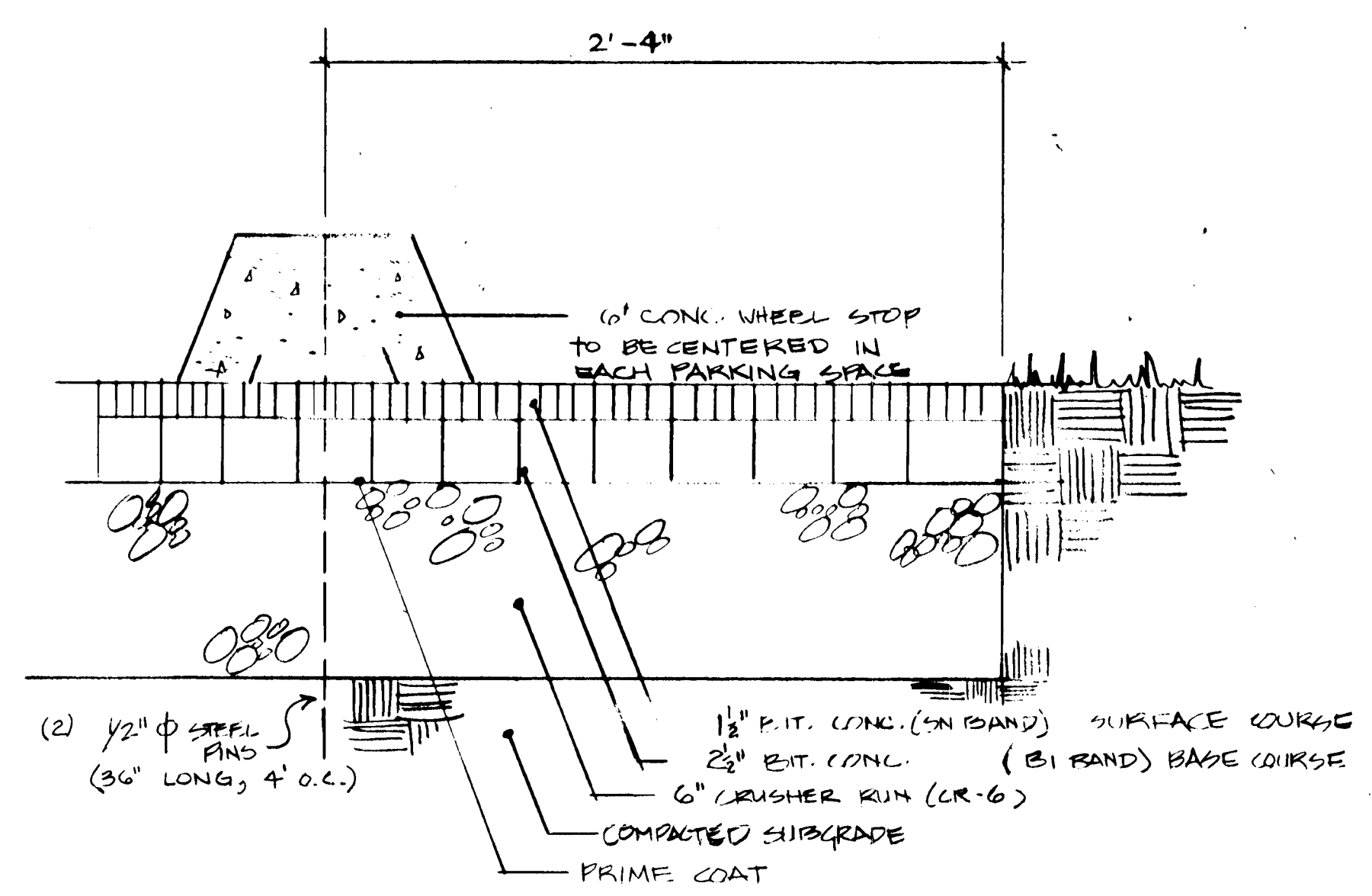
SHEET

D-2

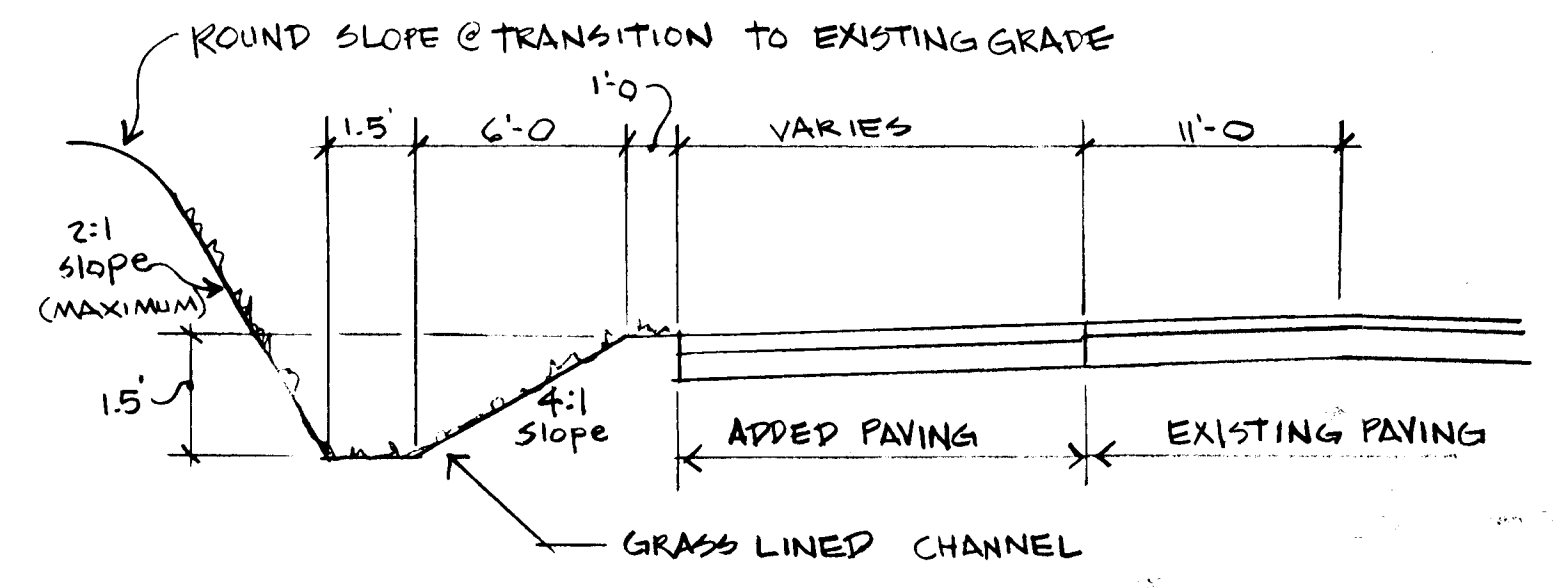
XXAL-89-0002



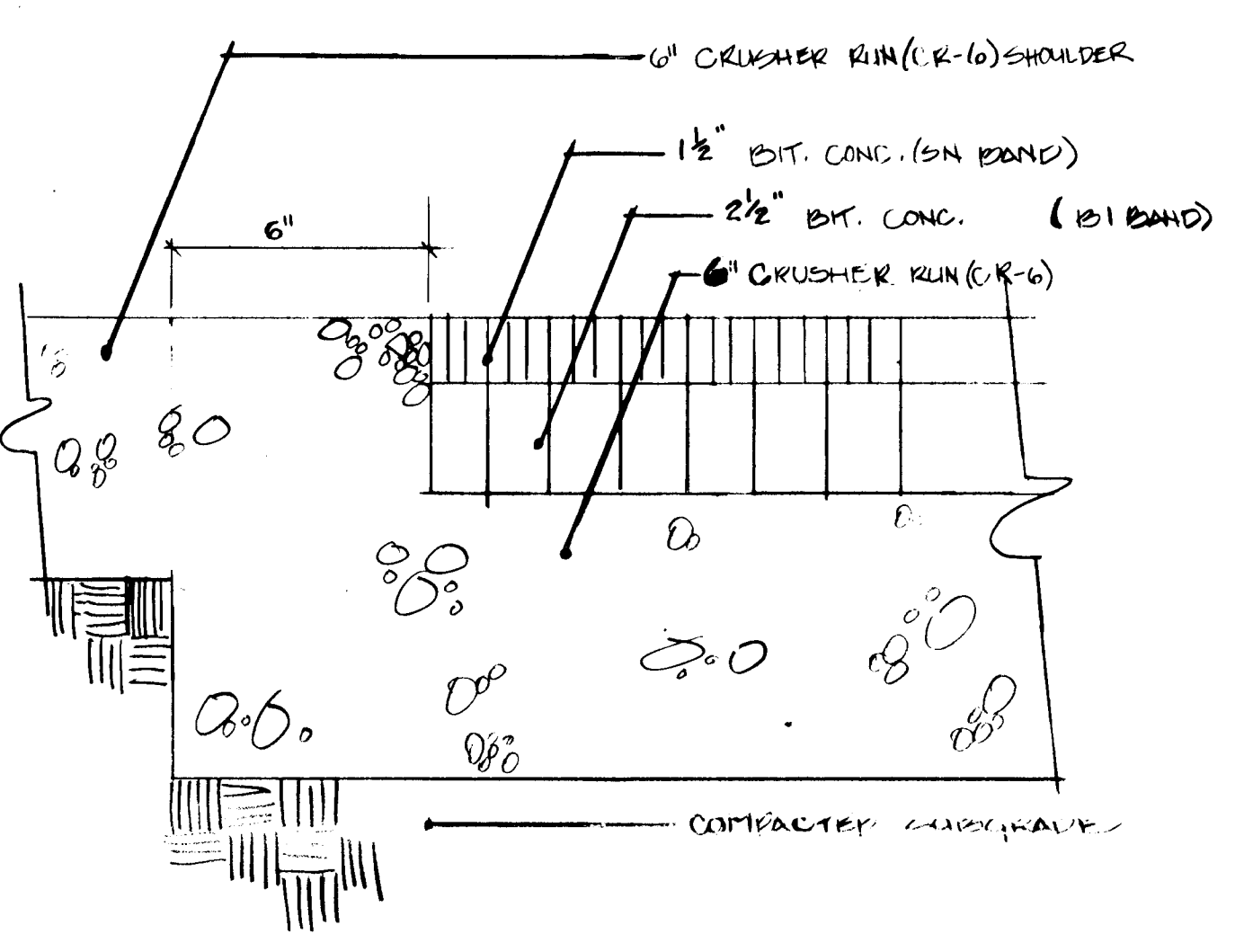
TYPICAL ROAD SECTION NTS **A**



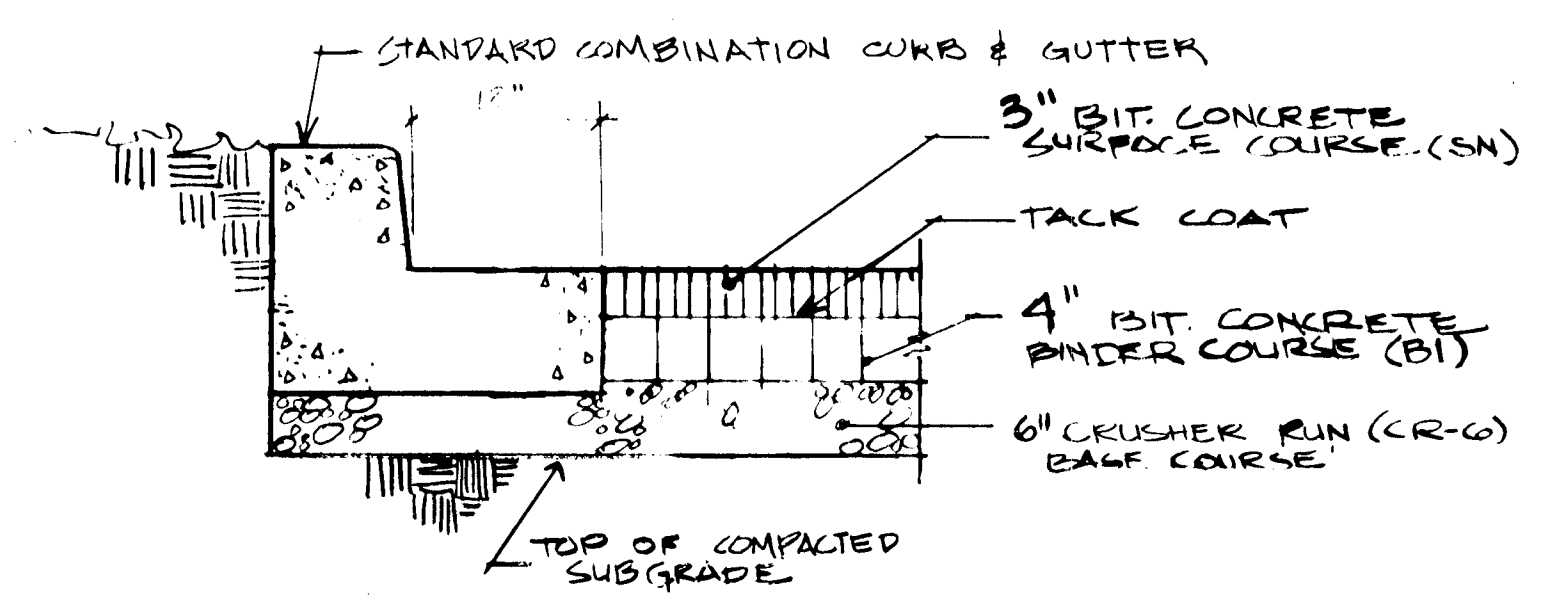
PARKING LOT PAVING & WHEEL STOPS Not to Scale **D**



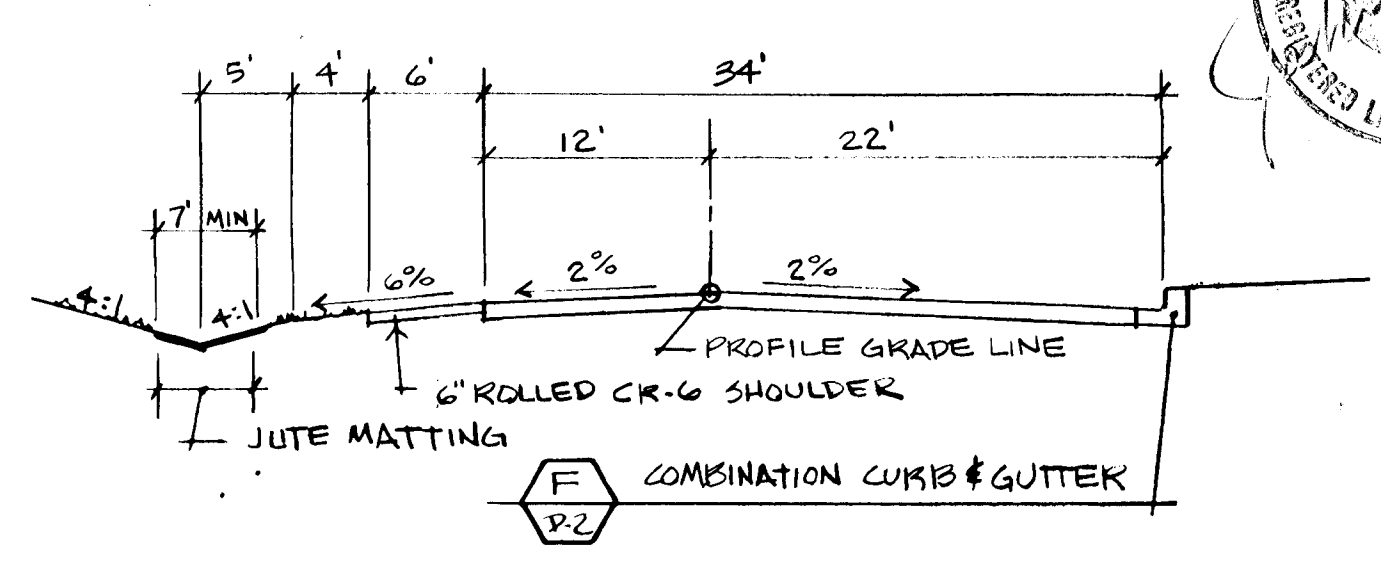
ROUTE 99 - CHANGE OF SPEED LANE (WEST) NTS **H**



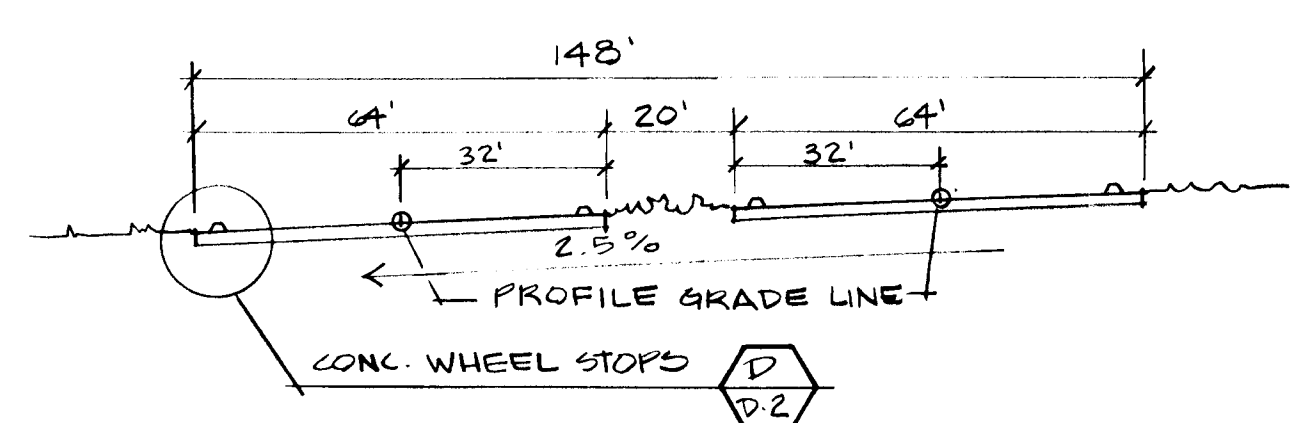
ROAD PAVING # 1 (FOR PARK ROADS & PARKING) Not to Scale **B**



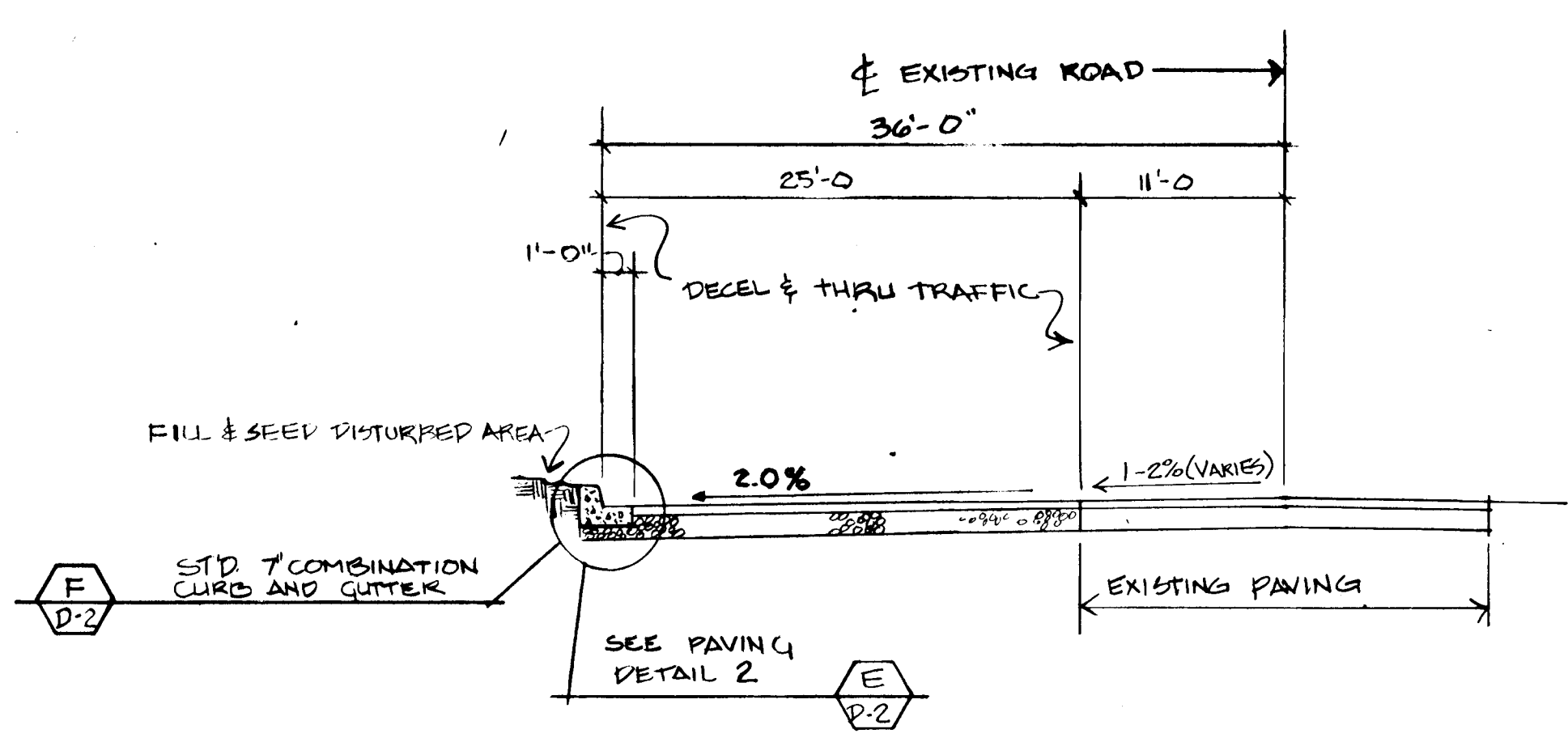
ROAD PAVING # 2 (FOR STATE HIGHWAY) Not to Scale **E**



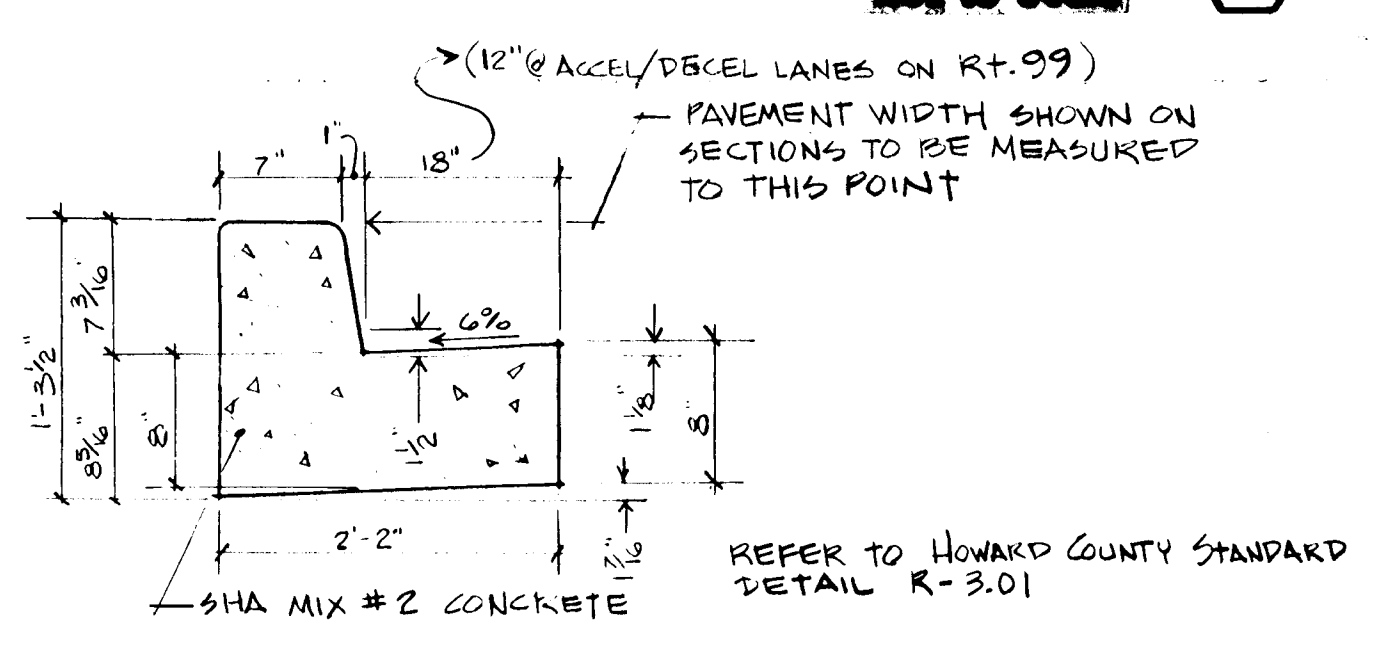
ROAD at DROP OFF/PICK UP NTS **I**



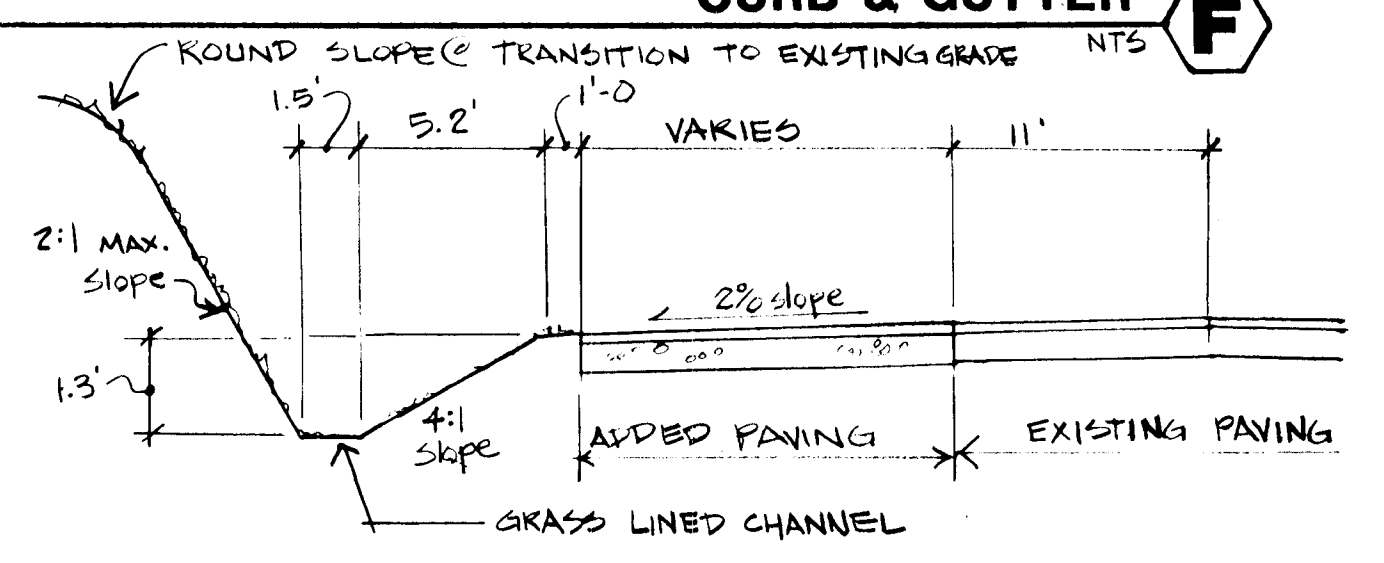
MAIN PARKING LOT NTS **J**



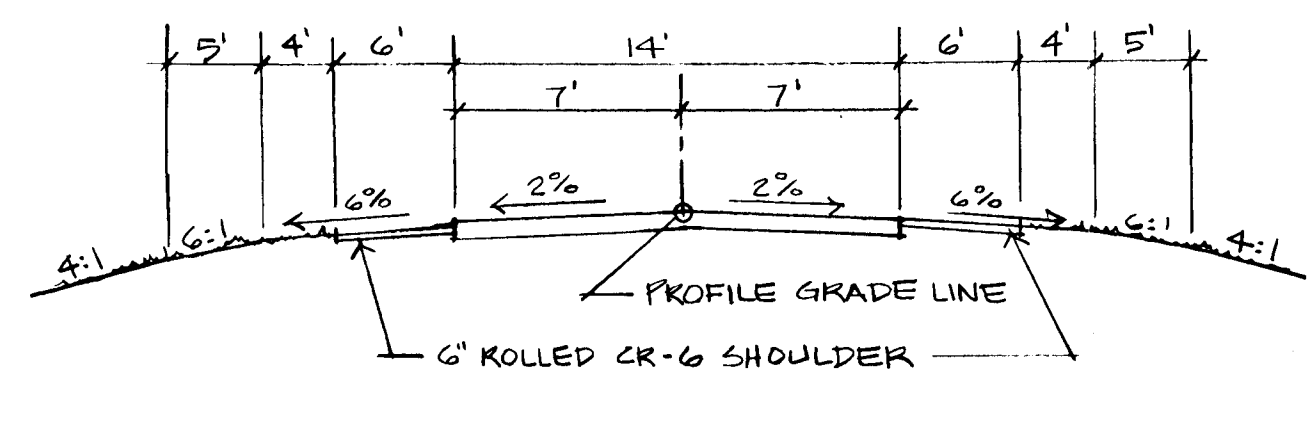
TYPICAL SECTION CHANGE OF SPEED LANE w/ CURBING NTS **C**



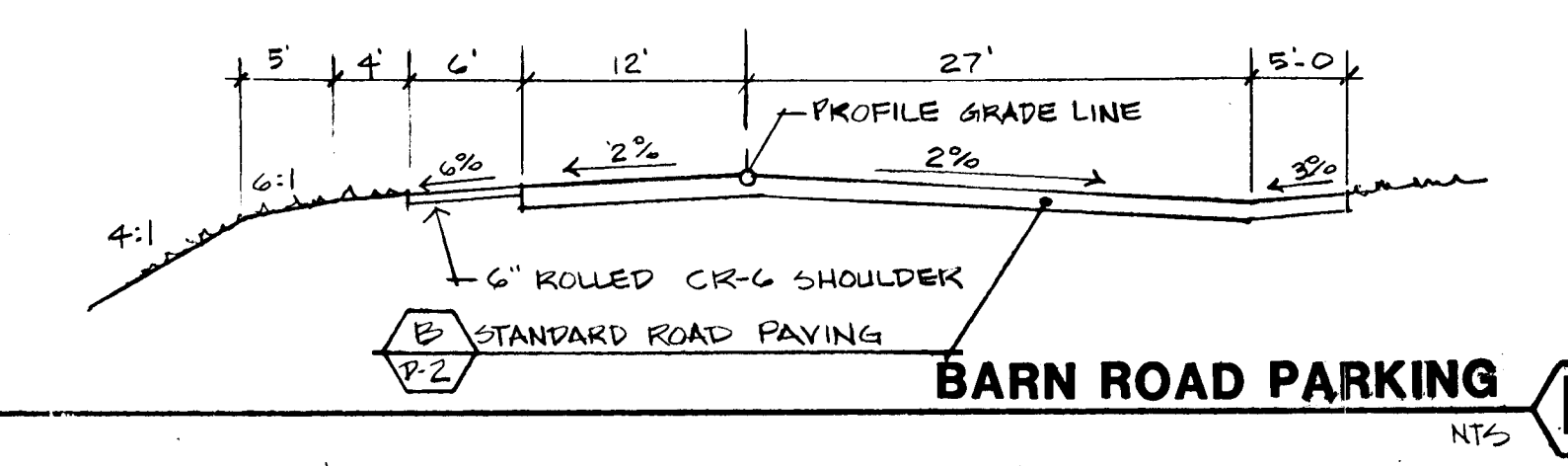
CURB & GUTTER NTS **F**



ROUTE 99 - CHANGE OF SPEED LANE (EAST) NTS **G**

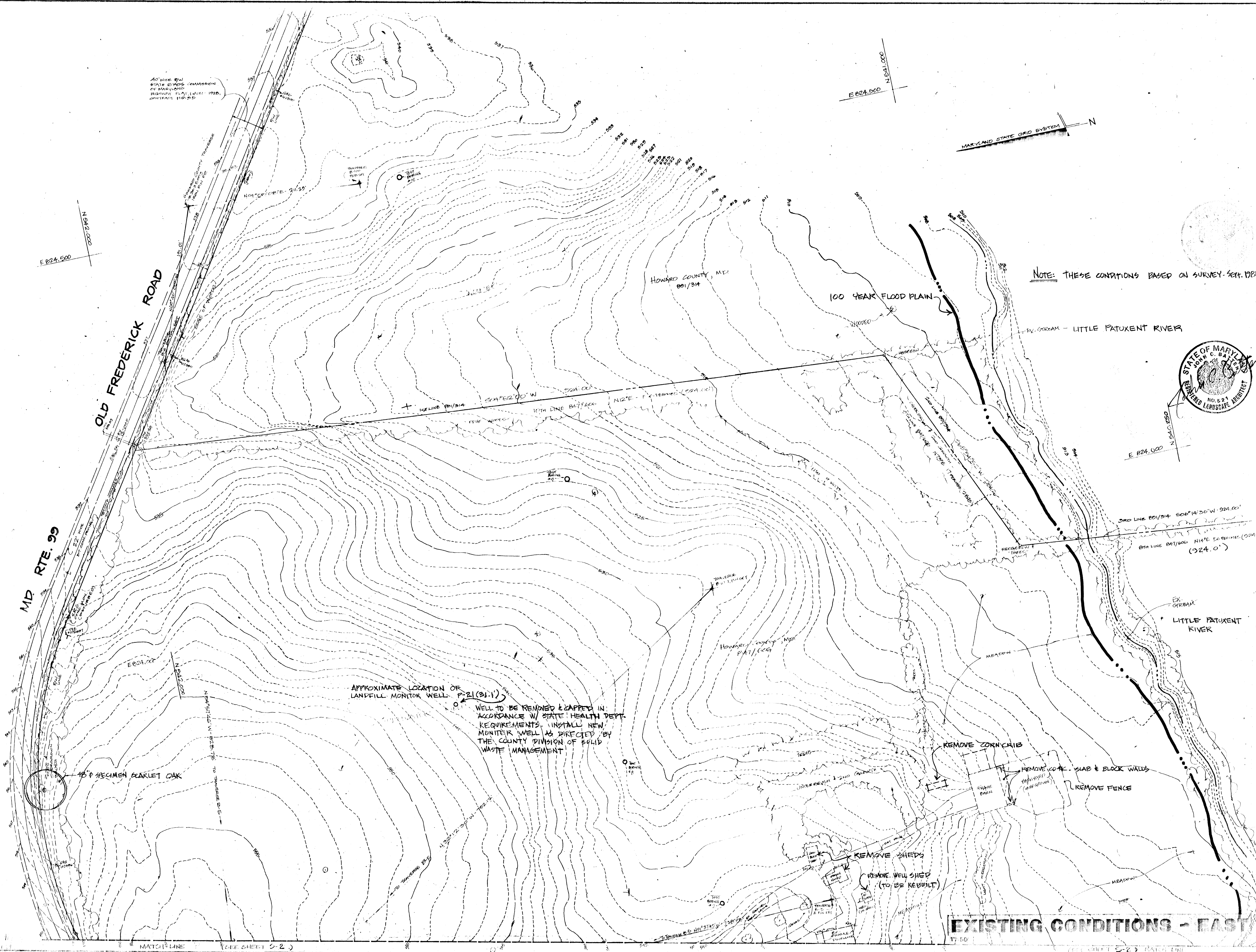


BARN/SERVICE ROAD NTS **K**



ROAD SECTIONS & DETAILS

APPROVALS	
HOWARD COUNTY	
DEPT. OF PUBLIC WORKS	
Director	Date
Chief, Bureau of Engineering	Date
DEPT. OF PLANNING & ZONING	
Director	Date
Chief, Division of Community Planning & Land Development	Date
BUREAU OF FACILITIES	
Chief	Date
BUREAU OF HIGHWAYS	
Chief	Date
ROADS, BRIDGES, STORM DRAINS DIVISION	
Chief	Date



APPROVAL STAMP
SITE DATA
OWNER: HOWARD COUNTY DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF: LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #123
ELECTION DISTRICT #13
GENESIS TRACT 6030
WATER: PRIVATE (WELL)
SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 23, 1988

SHEET
S-1

J. CHRISTOPHER BATTIN, INC.
Land Planning & Design Consultant
405 Mt. Airy Drive
Westminster, Maryland 21157
801-876-5053

EXISTING CONDITIONS - EAST

APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____
 9/25/88 R. Kelly 11-23-89

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

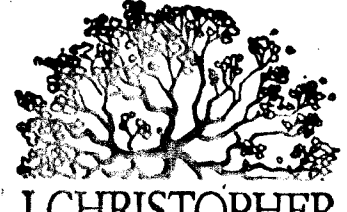
Chief _____ Date _____

APPROVAL STAMP

SITE DATA

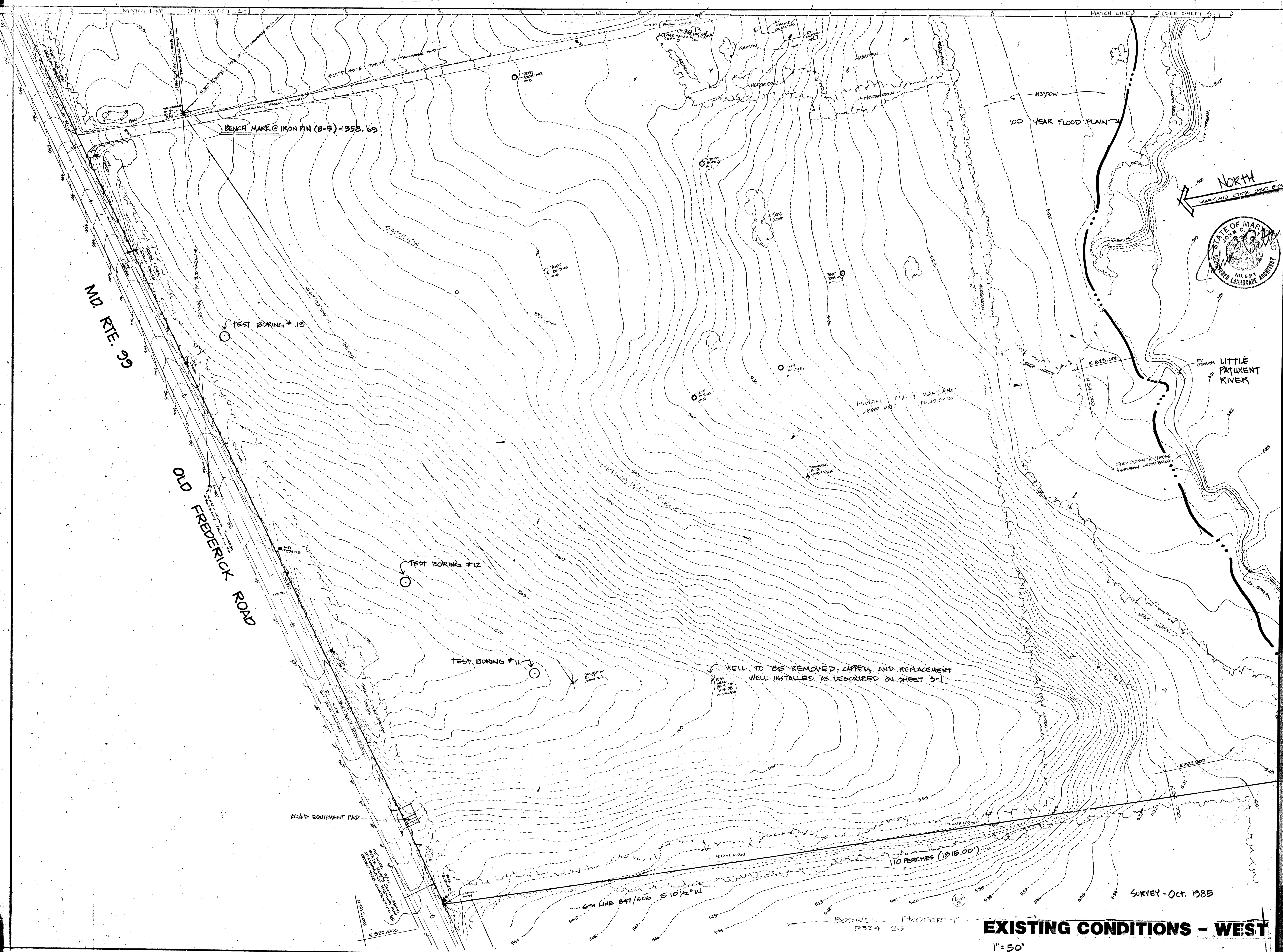
OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989



J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 407 Malcolm Drive
 Westminster, Maryland 21157
 301-876-5585

SHEET
S-2



EXISTING CONDITIONS - WEST
 1" = 50'

APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS
 Director _____ Date _____
 Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING
 Director _____ Date _____
 Chief, Division of Community Planning & Land Development _____ Date _____

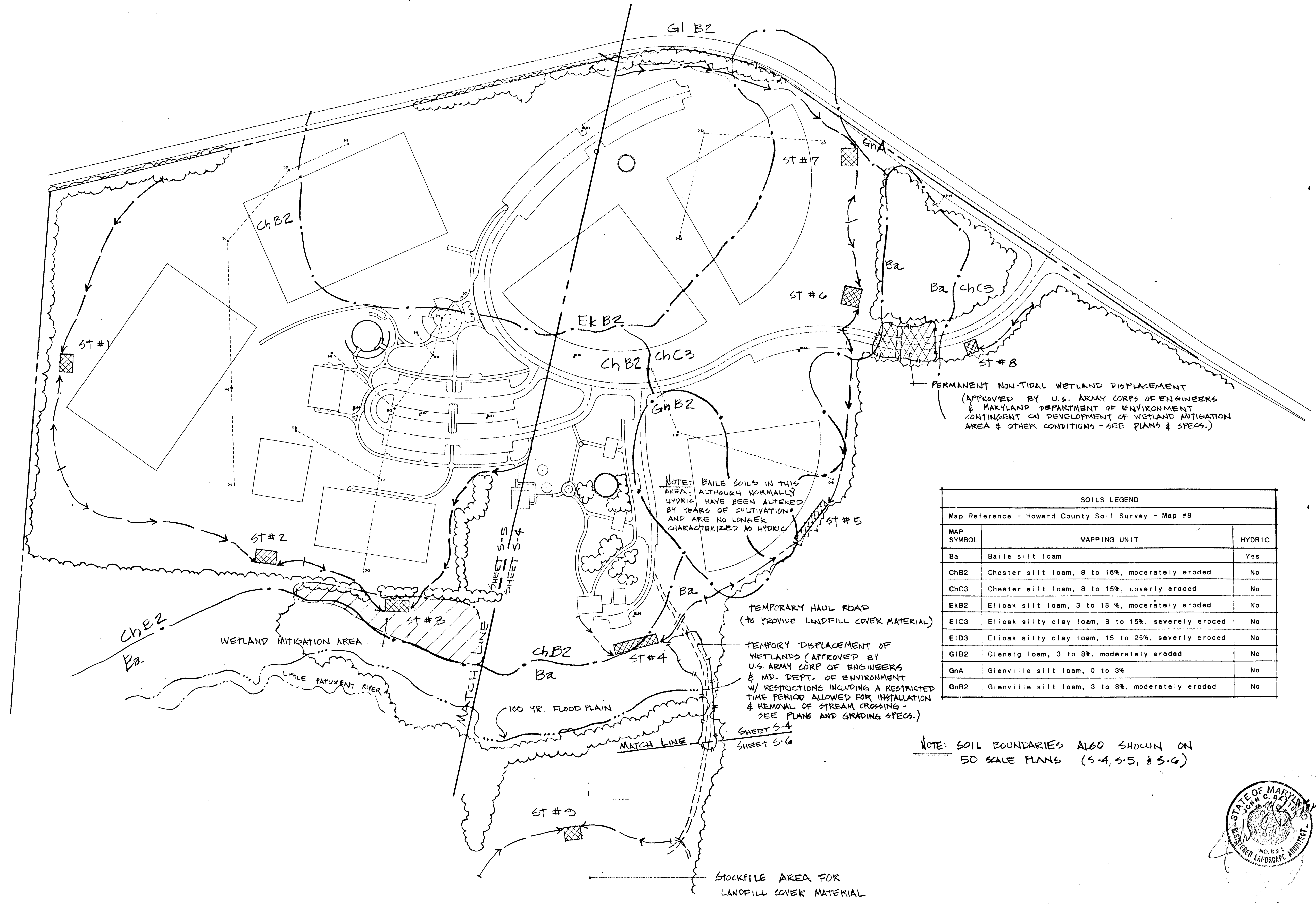
BUREAU OF FACILITIES
 Chief _____ Date _____
 BUREAU OF HIGHWAYS
 Chief _____ Date _____
 ROADS, BRIDGES, STRUCTURES DIVISION
 Chief _____ Date _____

APPROVAL STAMP

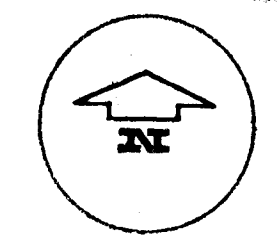
SITE DATA
 OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DED. REF. LETTER 842, FOLIO 600
 TAX MAP #18, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6830
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 408 Malcolm Drive
 Westminster, Maryland 21157
 801-874-3885



SEDIMENT CONTROL PLAN
 1" = 100'



SHEET
S-3

APPROVALS

HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

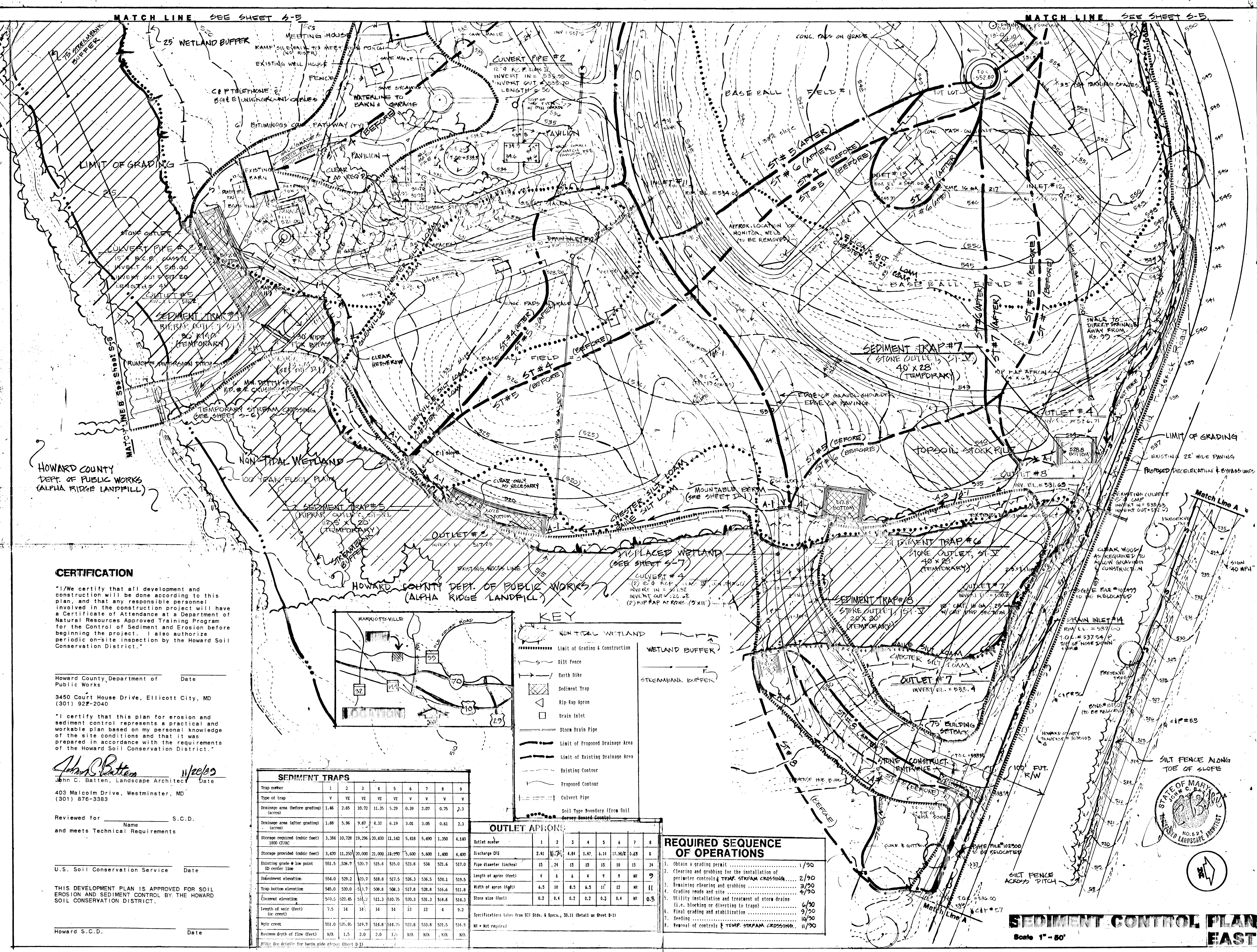
Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____



CERTIFICATION

"I/we certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Howard County Department of Public Works
3450 Court House Drive, Ellicott City, MD (301) 922-2040

"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."

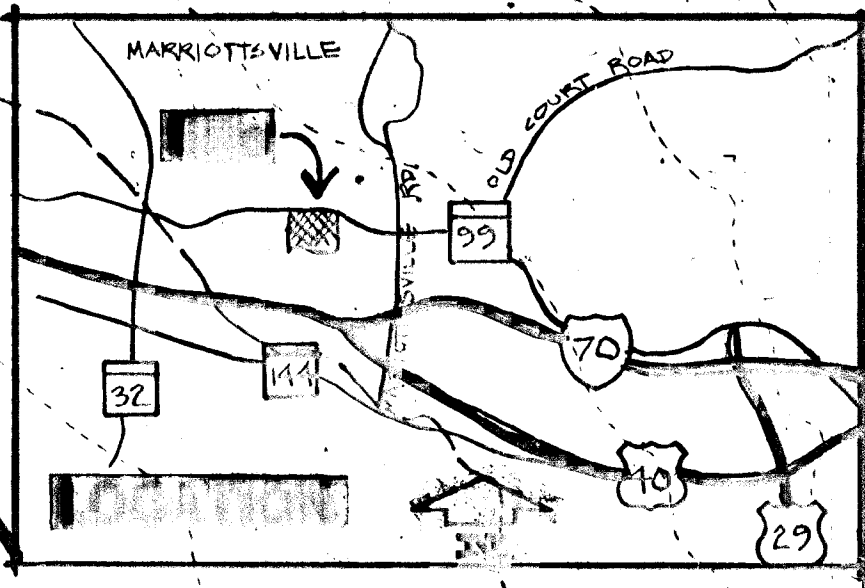
John C. Batten 11/22/03
John C. Batten, Landscape Architect

Reviewed for _____ S.C.D. Name _____ and meets Technical Requirements

U.S. Soil Conservation Service Date _____

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

Howard S.C.D. Date _____



KEY

- NON-TIDAL WETLAND
- Limit of Grading & Construction
- Silt Fence
- Barb Dike
- Sediment Trap
- Rip-Rap Apron
- Drain Inlet
- Storm Drain Pipe
- Limit of Proposed Drainage Area
- Limit of Existing Drainage Area
- Existing Contour
- Proposed Contour
- Culvert Pipe
- Soil Type Boundary (from Soil Survey Howard County)
- WETLAND BUFFER
- STREAMBANK BUFFER

SEDIMENT TRAPS

Trap number	1	2	3	4	5	6	7	8	9
Type of trap	V	VI	VI	VI	VI	V	V	V	V
Drainage area (before grading) (acres)	1.46	2.65	10.72	11.35	5.29	0.39	2.07	0.75	2.3
Drainage area (after grading) (acres)	1.88	5.96	9.87	4.32	6.19	3.01	3.05	0.61	2.3
Storage required (cubic feet) 1800 CF/AC	3,384	10,728	19,296	20,430	11,142	5,418	5,490	1,350	4,140
Storage provided (cubic feet)	3,400	11,250	20,000	21,000	11,250	5,600	5,600	1,400	4,400
Existing grade @ low point 2D center line	551.5	526.7	500.7	515.8	515.0	523.8	534	521.6	517.0
Ebbelowest elevation	554.0	529.2	523.7	518.8	517.5	526.3	536.5	524.1	519.5
Trap bottom elevation	545.0	520.0	513.7	508.8	508.3	517.0	528.8	516.6	511.8
Clearcut elevation	549.5	522.45	518.2	511.3	510.75	520.3	531.3	518.6	514.3
Length of weir (feet) (or crest)	7.5	14	14	14	14	12	12	4	9.2
Weir crest	551.0	525.95	519.7	514.8	514.25	522.8	533.8	521.5	516.9
Maximum depth of flow (feet)	N/A	1.5	2.0	2.0	1.5	N/A	N/A	N/A	N/A

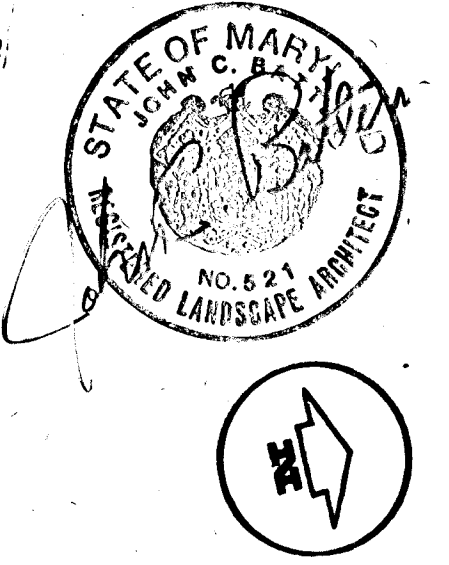
OUTLET APRONS

Outlet number	1	2	3	4	5	6	7	8
Discharge CFS	2.41	11.74	4.84	1.47	6.14	17.42	0.49	8
Pipe diameter (inches)	15	24	15	15	15	18	15	24
Length of apron (feet)	4	6	6	4	9	9	NR	9
Width of apron (feet)	6.5	10	6.5	6.5	11	12	NR	11
Stone size (feet)	0.2	0.4	0.2	0.2	0.2	0.4	NR	0.3

Specifications taken from SCS DES. 4 & Specs., 28.11 (Detail on Sheet B-11)
NR = Not required

REQUIRED SEQUENCE OF OPERATIONS

1. Obtain a grading permit	1/90
2. Clearing and grubbing for the installation of perimeter controls & TEMP. STREAM CROSSING	2/90
3. Remaining clearing and grubbing	3/90
4. Grading roads and site	4/90
5. Utility installation and treatment of storm drains (i.e. blocking or diverting to traps)	6/90
6. Final grading and stabilization	9/90
7. Seeding	10/90
8. Removal of controls & TEMP. STREAM CROSSING	11/90



SEDIMENT CONTROL PLAN EAST
Scale 1" = 50'

SITE DATA

OWNER: HOWARD COUNTY
DEPT. OF PUBLIC WORKS

PROPOSED IMPROVEMENT: PARK

DEED REF: LIBER 847, FOLIO 686

TAX MAP #10, PARCEL #23

ELECTION DISTRICT #3

CENSUS TRACT 6830

WATER: PRIVATE (WELL)

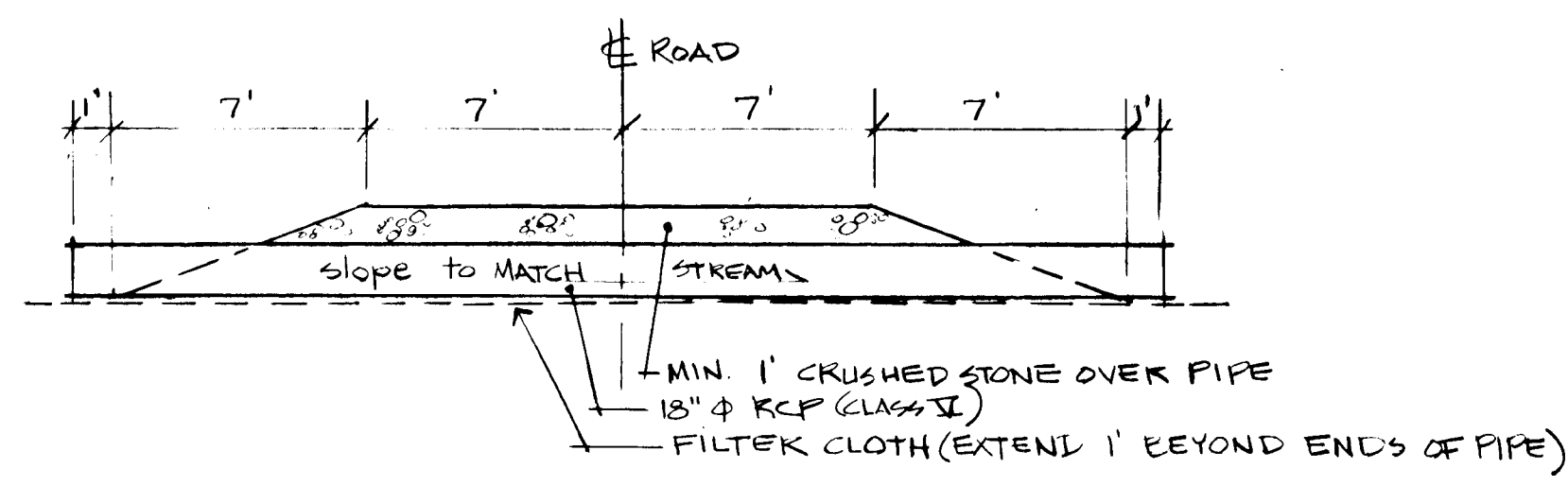
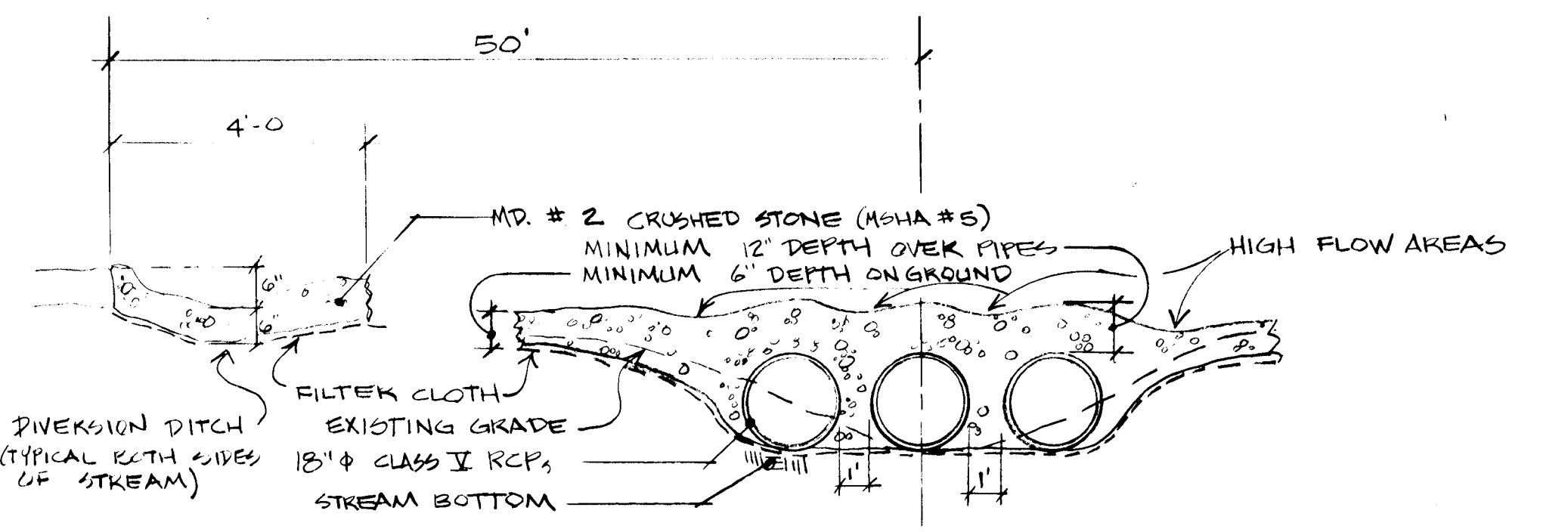
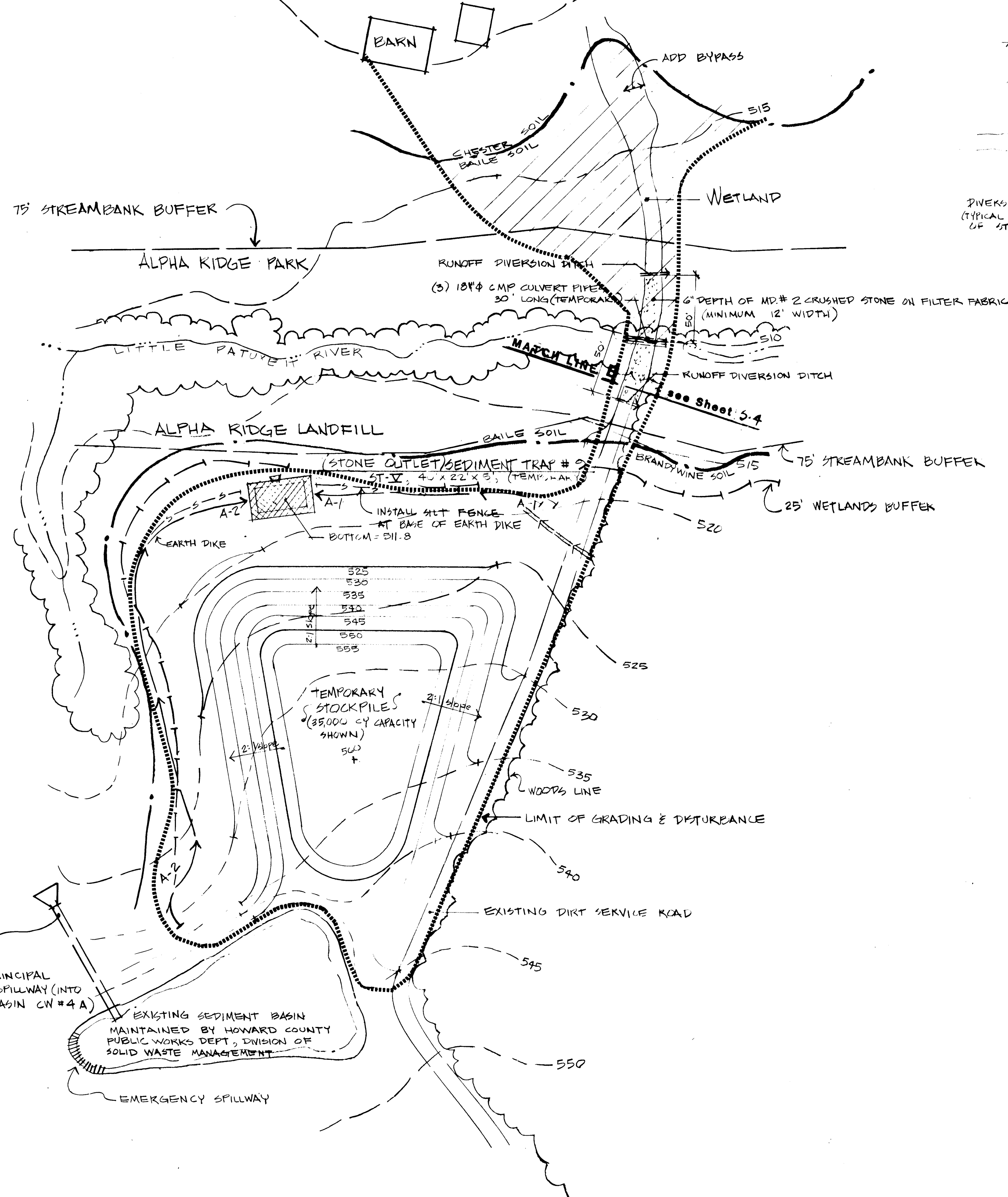
SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1999

J. CHRISTOPHER BATTEN, INC.
Land Planning & Design Consultant

405 Malcolm Drive
Westminster, Maryland 21157
301-876-5555

SHEET 5.4



NOTES: 1) INSTALLATION & REMOVAL WILL BE IN STRICT ACCORDANCE WITH SCS STANDARDS & SPECIFICATIONS
 2) ACCESS CULVERT MAY BE INSTALLED ONLY BETWEEN JUNE 16 & FEBRUARY 28



CERTIFICATION

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: _____ Date: _____
 HOWARD COUNTY DEPT. OF PUBLIC WORKS

"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."

Signature of Landscape Architect: *John C. Batten* / 11/27/89
 John C. Batten

Reviewed for HOWARD S.C.D. and meets Technical Requirements

U.S. Soil Conservation Service Date: _____

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

Howard S.C.D. Date: _____

APPROVALS
 HOWARD COUNTY:

DEPT. OF PUBLIC WORKS
 Director: _____ Date: _____
 Chief, Bureau of Engineering: _____ Date: _____

DEPT. OF PLANNING & ZONING
 Director: _____ Date: _____
 Chief, Division of Community Planning & Land Development: _____ Date: _____

BUREAU OF FACILITIES
 Chief: _____ Date: _____

BUREAU OF HIGHWAYS
 Chief: _____ Date: _____

ROADS, BRIDGES, STORM DRAINS DIVISION
 Chief: _____ Date: _____

APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989



SHEET
S-6

408 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3585

HAUL ROAD & STOCKPILE

1" = 50'

SEDIMENT CONTROL PLAN - HAUL ROAD & STOCKPILE

APPROVALS
 HOWARD COUNTY:

DEPT. OF PUBLIC WORKS

Director _____ Date _____
 Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____
 Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____

APPROVAL STAMP

SITE DATA

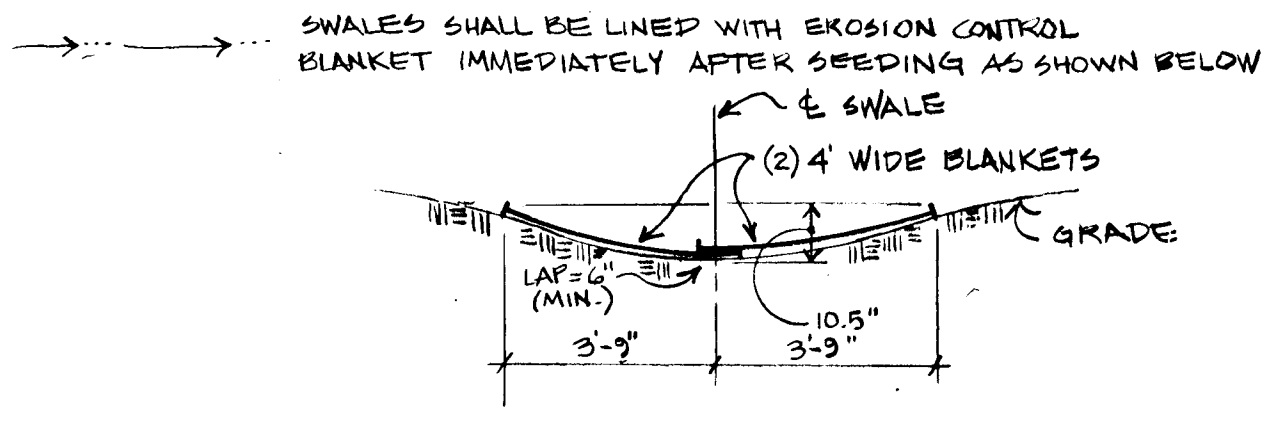
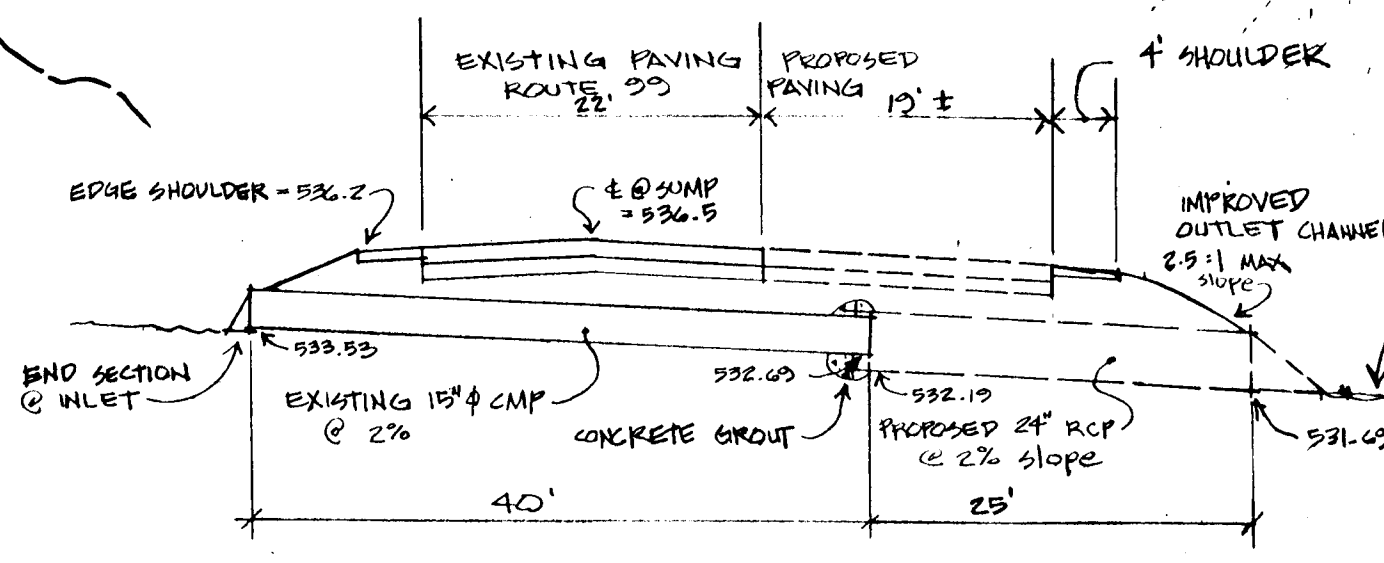
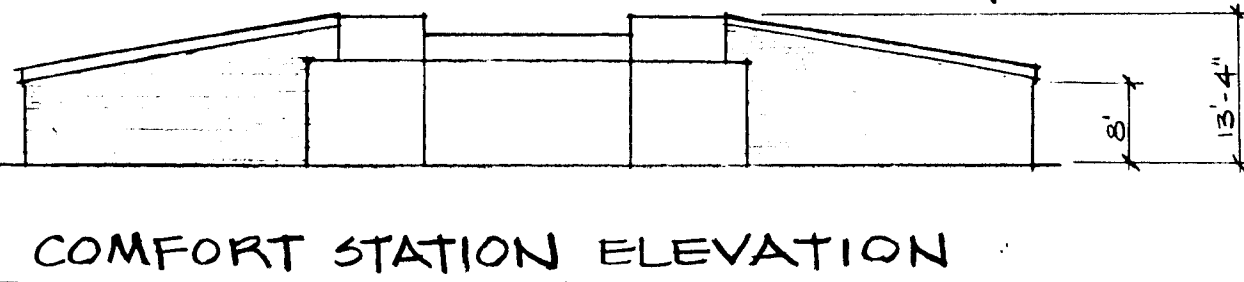
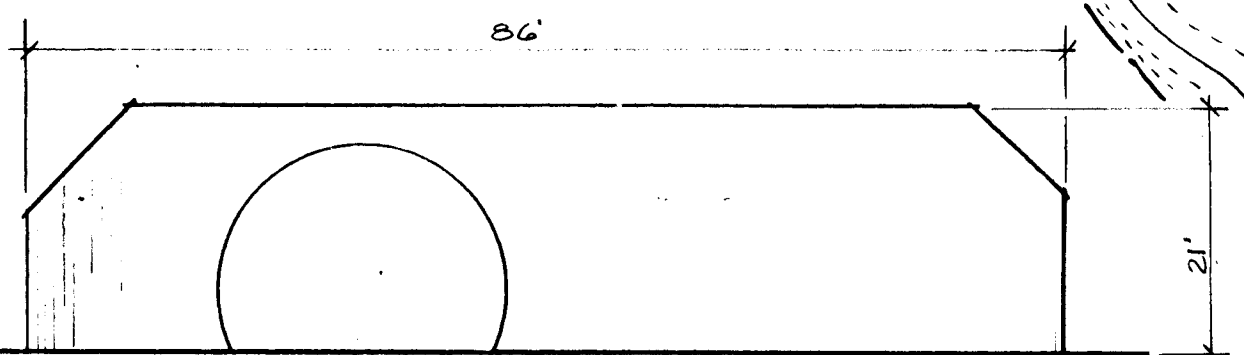
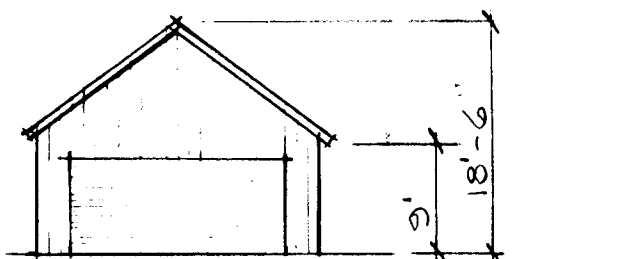
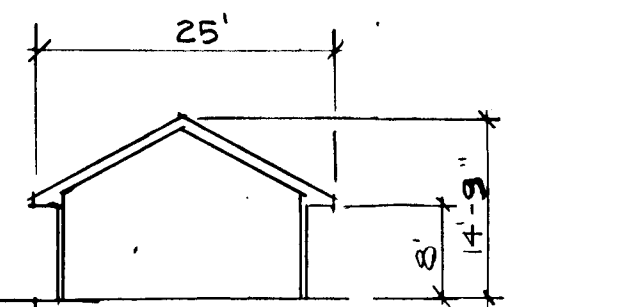
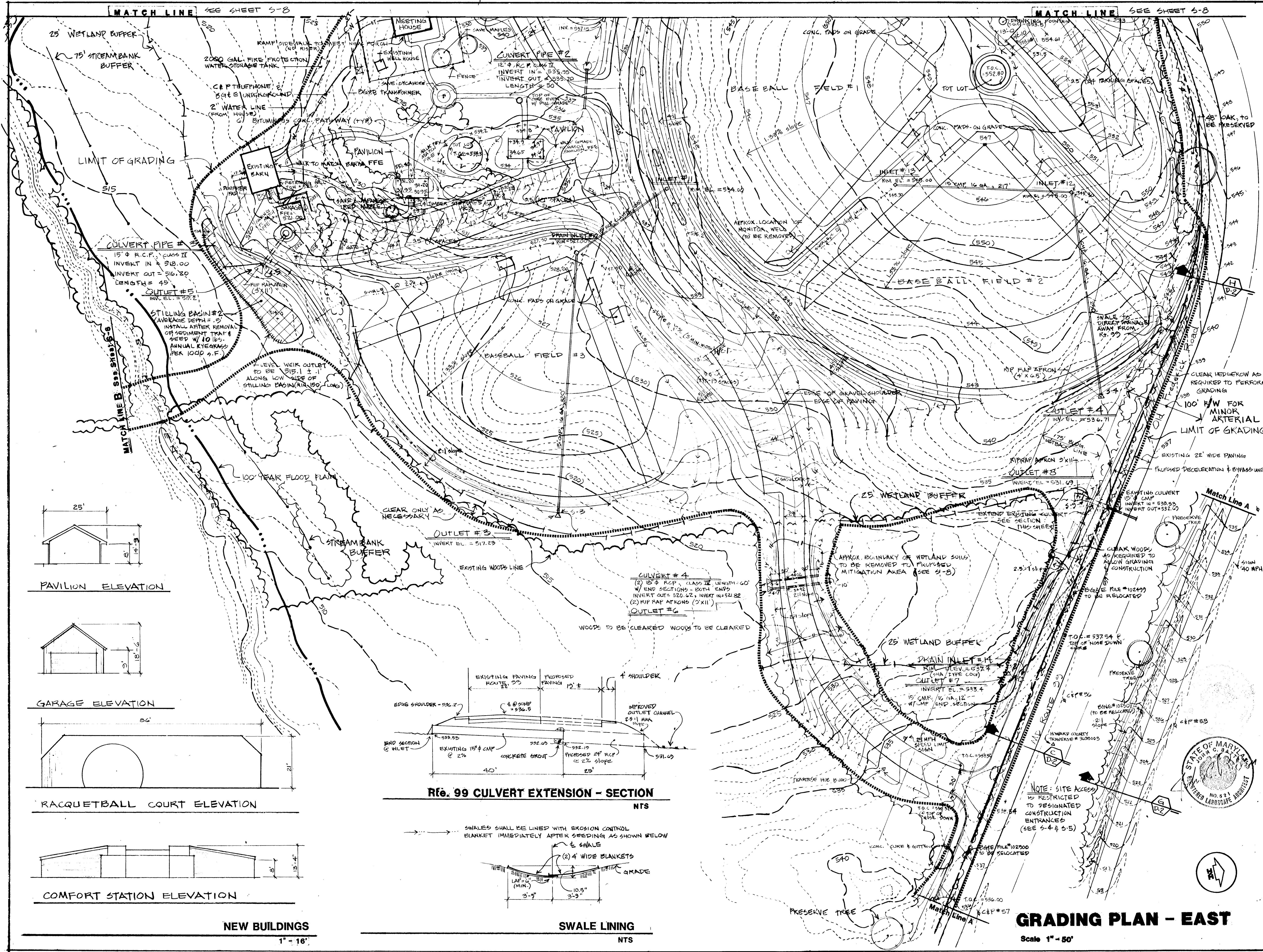
OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6830
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1999

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 405 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3585

SHEET

S-7



NEW BUILDINGS
 1" = 16'

SWALE LINING
 NTS

GRADING PLAN - EAST

Scale 1" = 50'

BOSWELL PROPERTY
8324-25

SDP #90-18
ALPHA RIDGE PARK

APPROVALS

HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community
Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____

APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
DEPT. OF PUBLIC WORKS
PROPOSED IMPROVEMENT: PARK
DEED REF. LIBER 847, FOLIO 606
TAX MAP #10, PARCEL #23
ELECTION DISTRICT #3
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SEPTEMBER 21, 1989

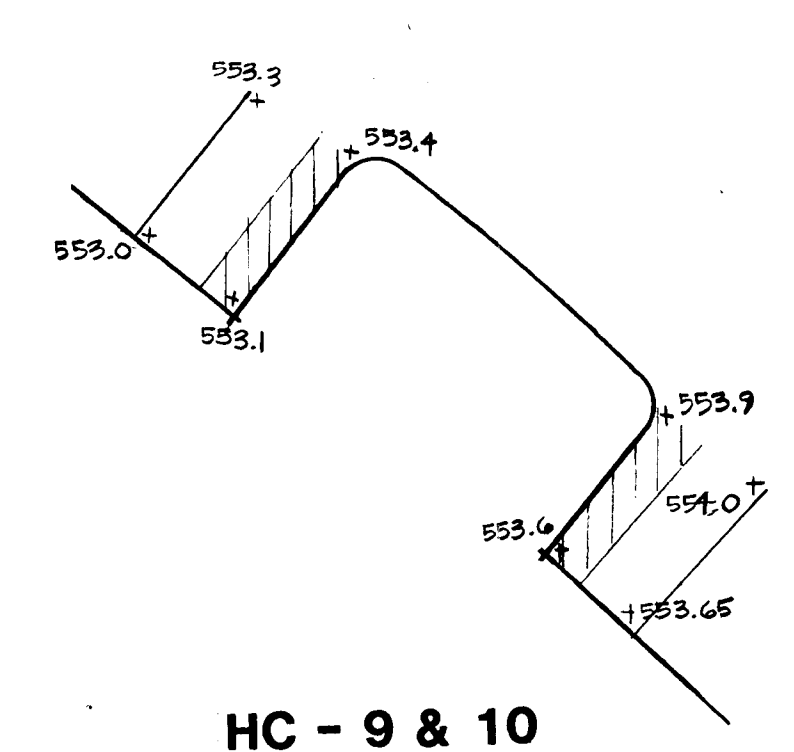
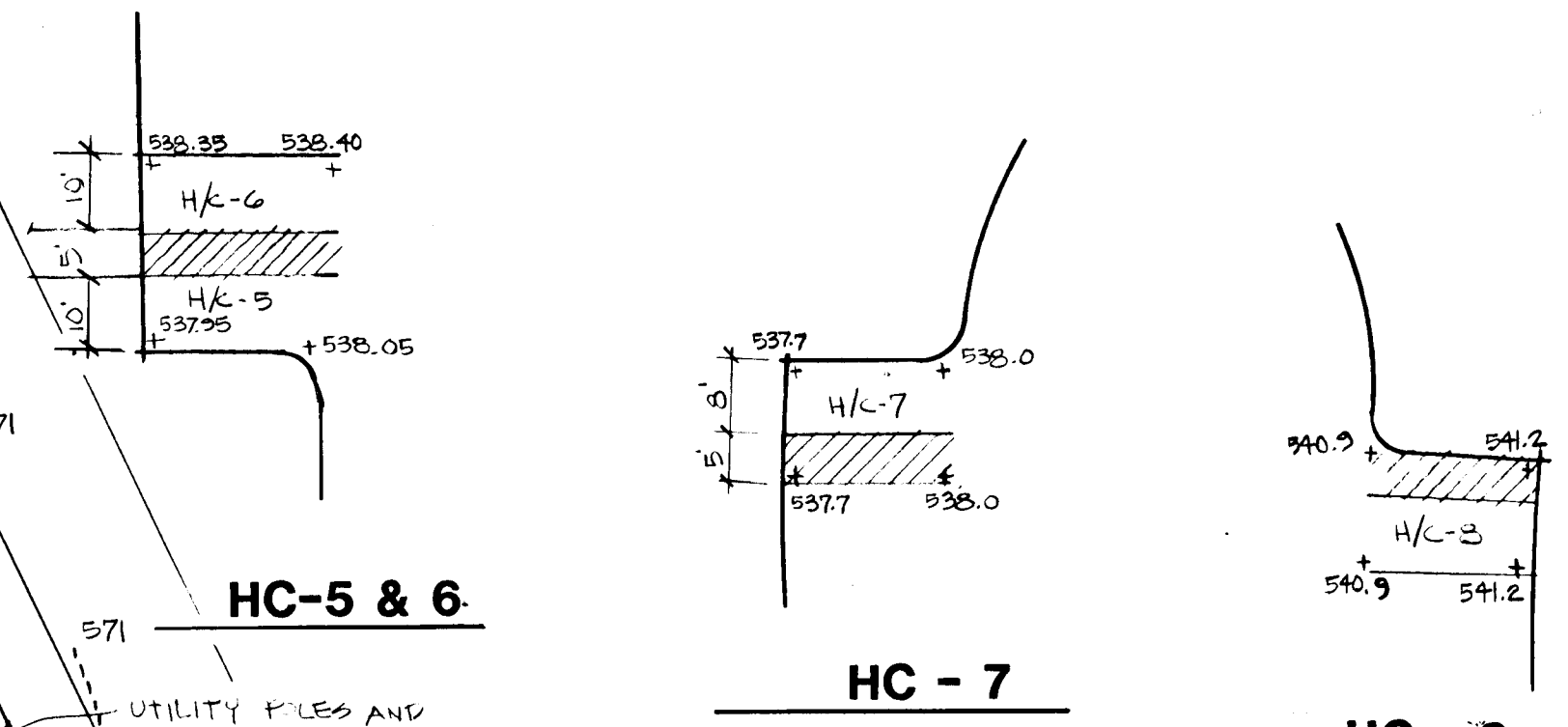
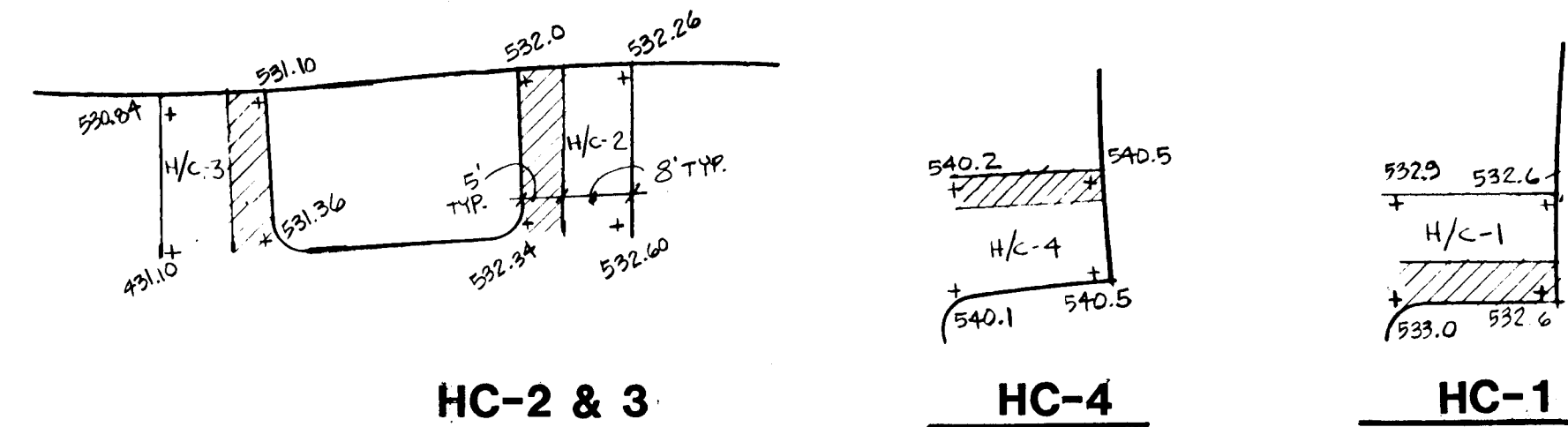
**J. CHRISTOPHER
BATTEN, INC.**
Land Planning &
Design Consultant

405 Malcolm Drive
Westminster, Maryland 21157
901-876-3585

SHEET

S-8

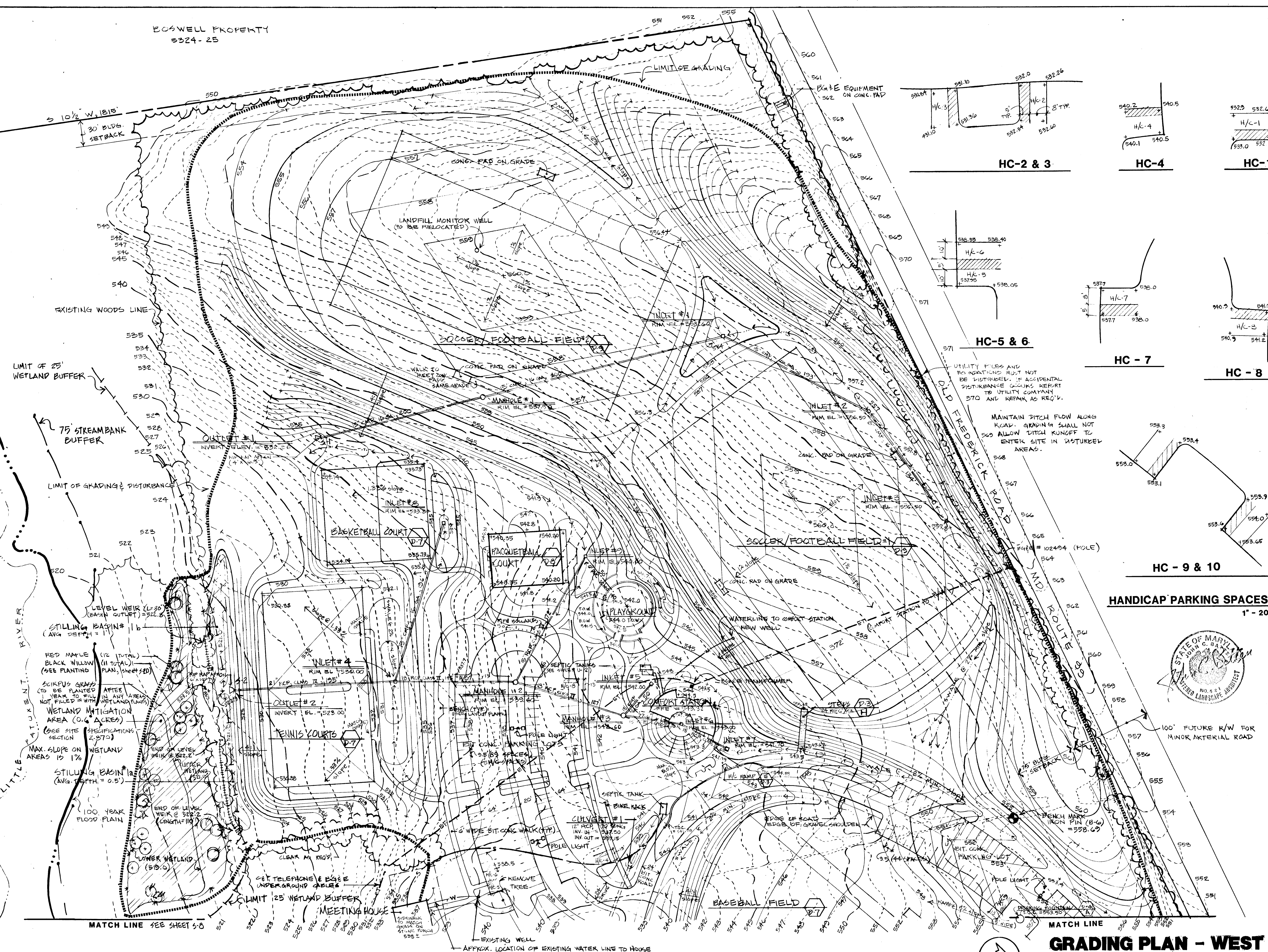
XXAL-89-5008



HANDICAP PARKING SPACES:
1" - 20"



GRADING PLAN - WEST
Scale 1" = 50'



WETLAND MITIGATION AREA (0.6 ACRES)
(SEE SITE SPECIFICATIONS SECTION 2.37D)

RED MAPLE (12 TOTAL)
BLACK WILLOW (11 TOTAL)
(SEE PLANTING PLAN, SHEET 50)

SCIRPUS GRASS TO BE PLANTED AFTER 1 YEAR TO FILL NOT FILLED WITH WETLAND PLANTS

MAX. SLOPE ON WETLAND AREAS IS 1%

STILLING BASIN #1 (AVG. DEPTH = 1')

STILLING BASIN #2 (AVG. DEPTH = 0.5')

100 YEAR FLOOD PLAN

LOWER WETLAND (513.0)

SET TELEPHONE & BSEE UNDERGROUND CABLES

LIMIT 25' WETLAND BUFFER

MEETING HOUSE

EXISTING WELL APPROX. LOCATION OF EXISTING WATER LINE TO HOUSE

UTILITY FILES AND INDICATIONS MUST NOT BE DISTURBED. IF ACCIDENTAL DISTURBANCE OCCURS REPORT TO UTILITY COMPANY 570 AND REPAIR AS REQ'D.

MAINTAIN DITCH FLOW ALONG ROAD. GRADING SHALL NOT ALLOW DITCH RUNOFF TO ENTER SITE IN DISTURBED AREAS.

HC-5 & 6

HC-7

HC-8

HC-9 & 10

MATCH LINE SEE SHEET S-8

MATCH LINE

APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS

Director _____ Date _____

Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES

Chief _____ Date _____

BUREAU OF HIGHWAYS

Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief _____ Date _____

APPROVAL STAMP

SITE DATA

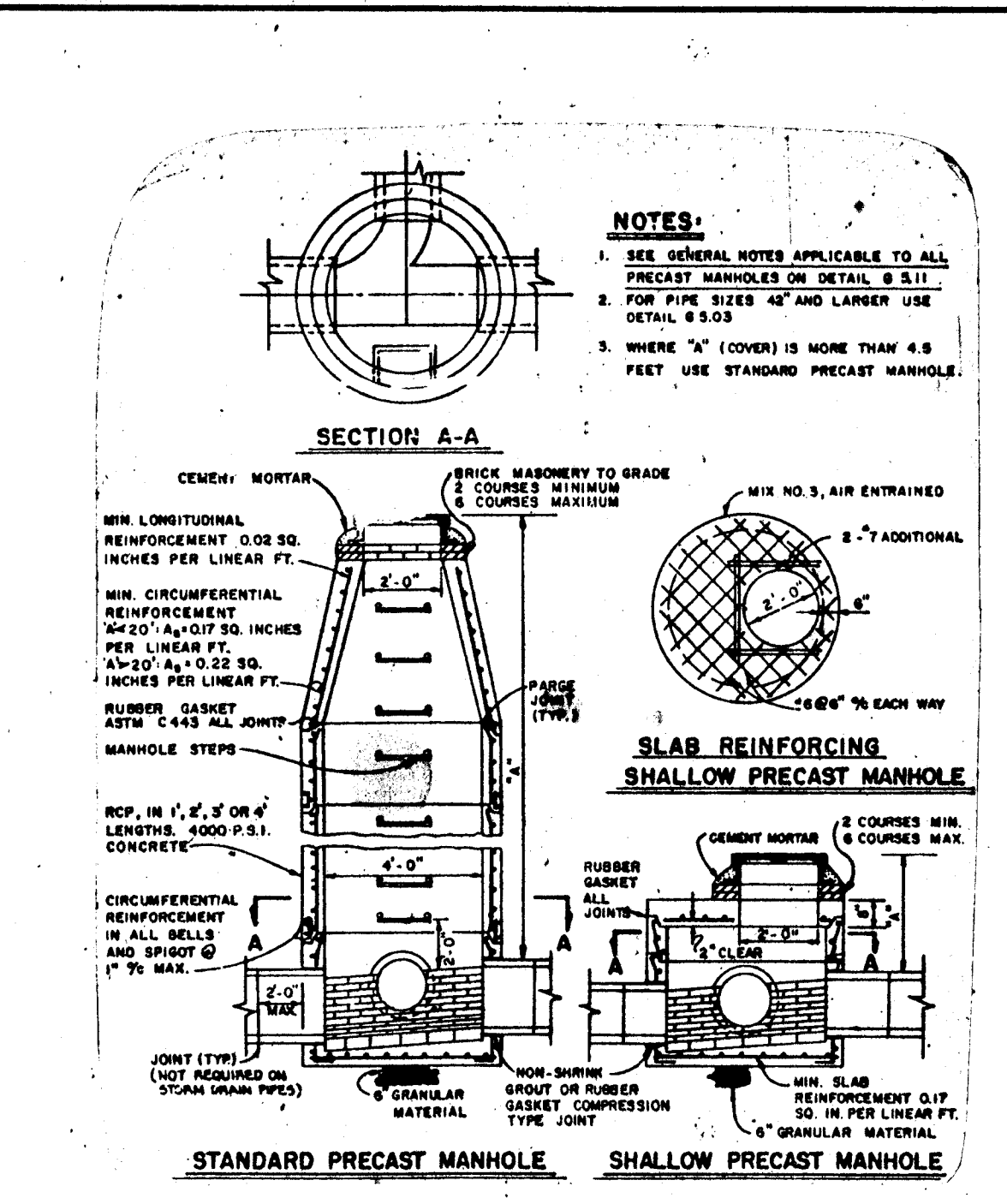
OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF. LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
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SEPTEMBER 21, 1989

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 403 Malcolm Drive
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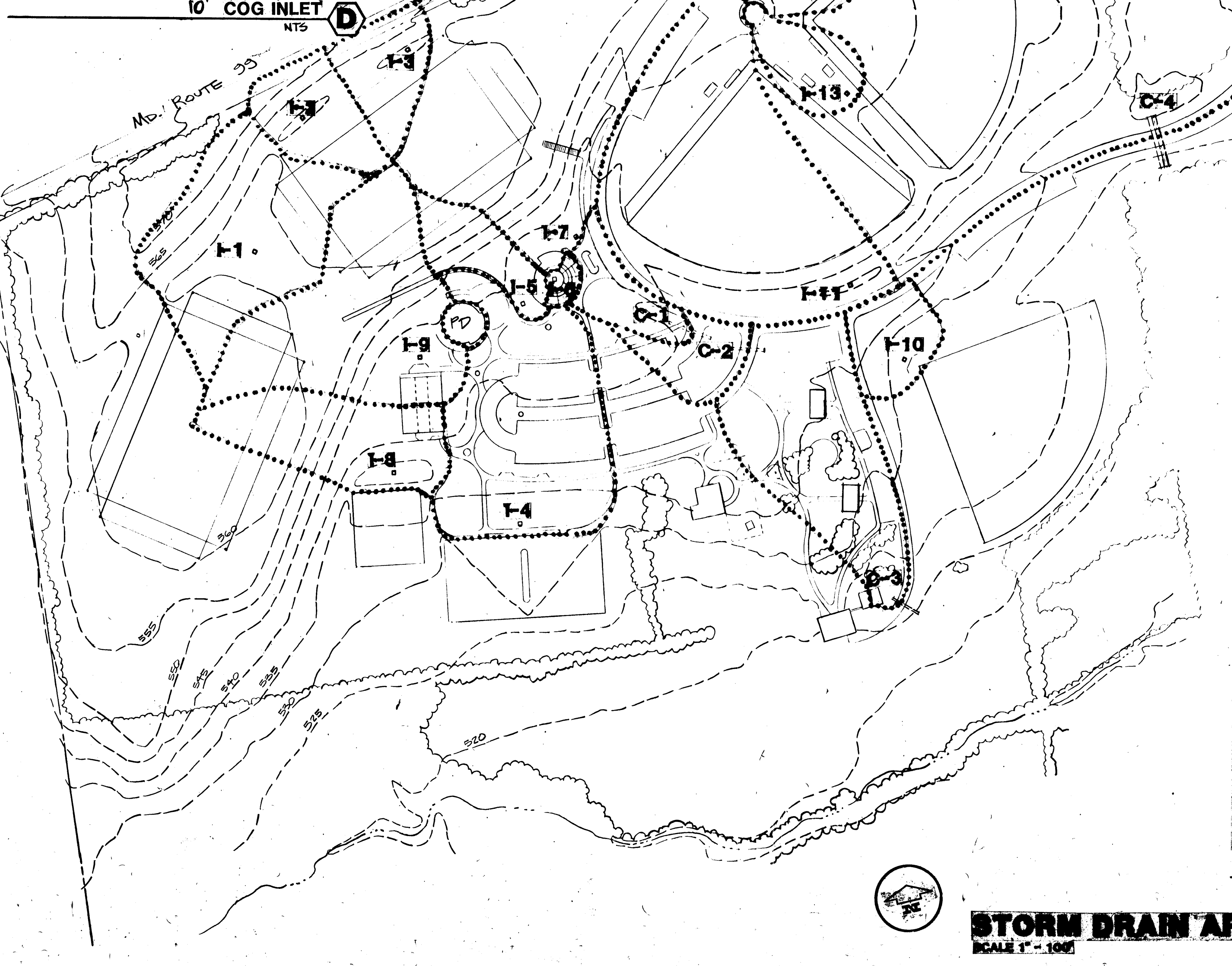
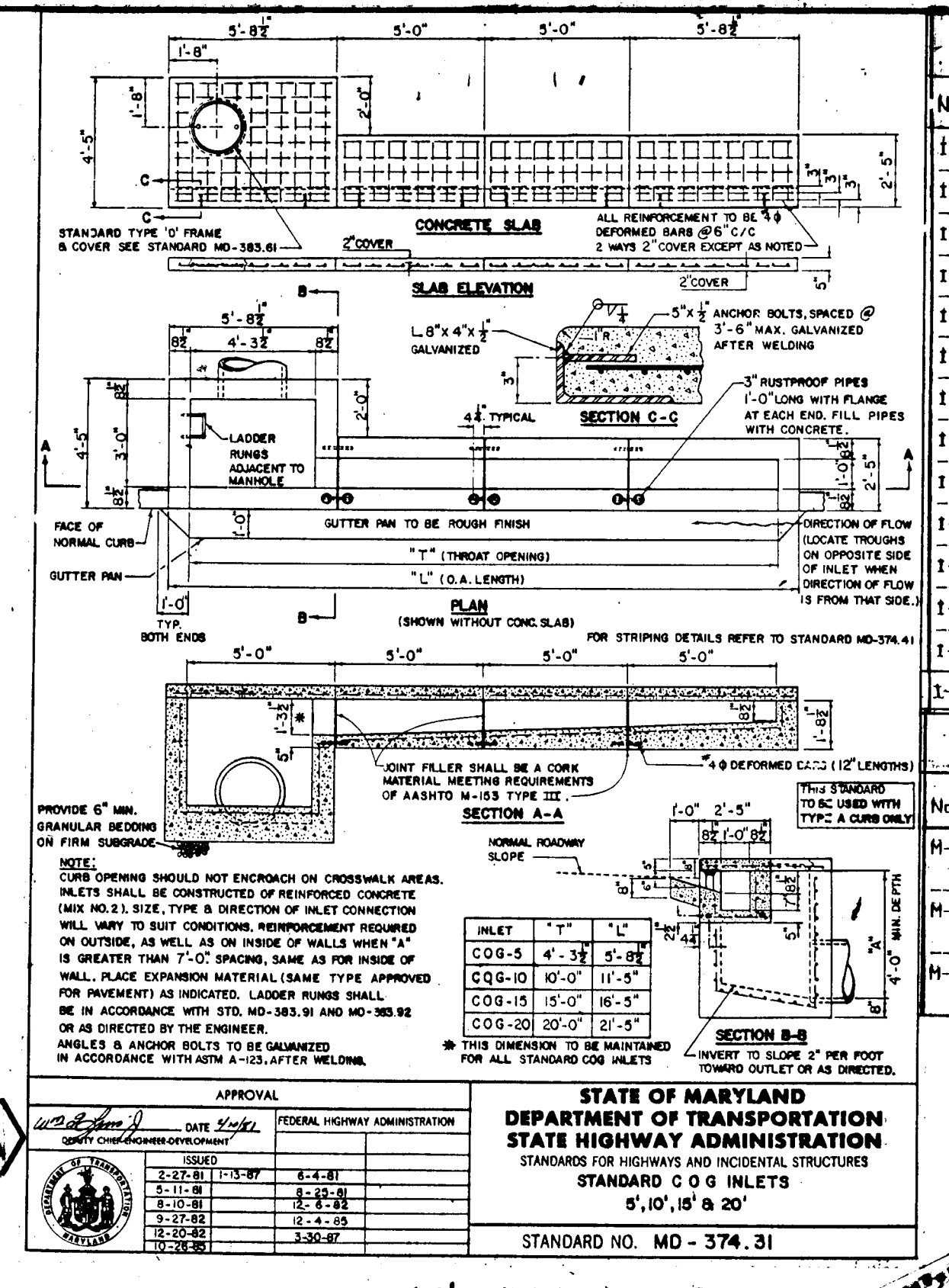
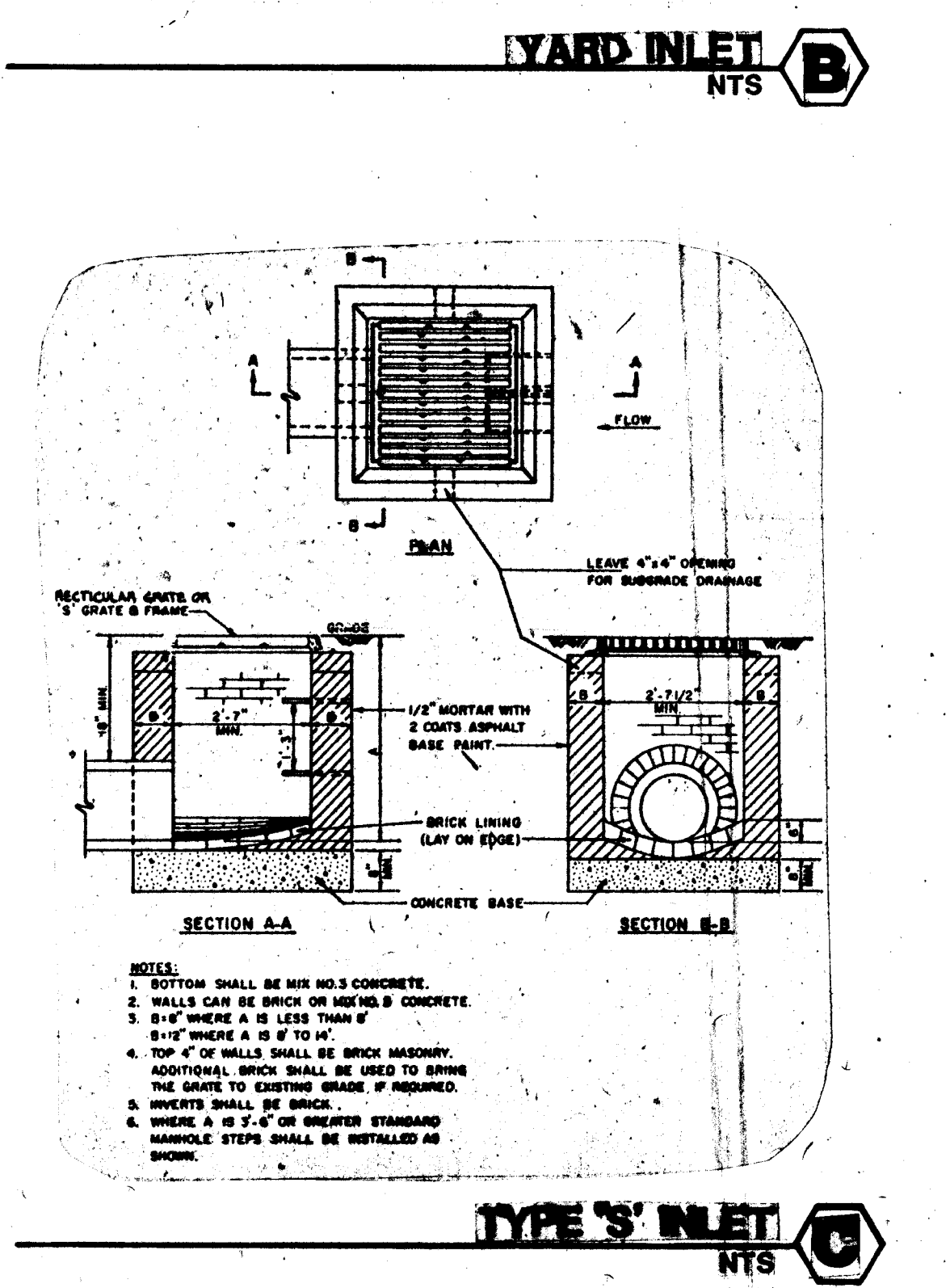
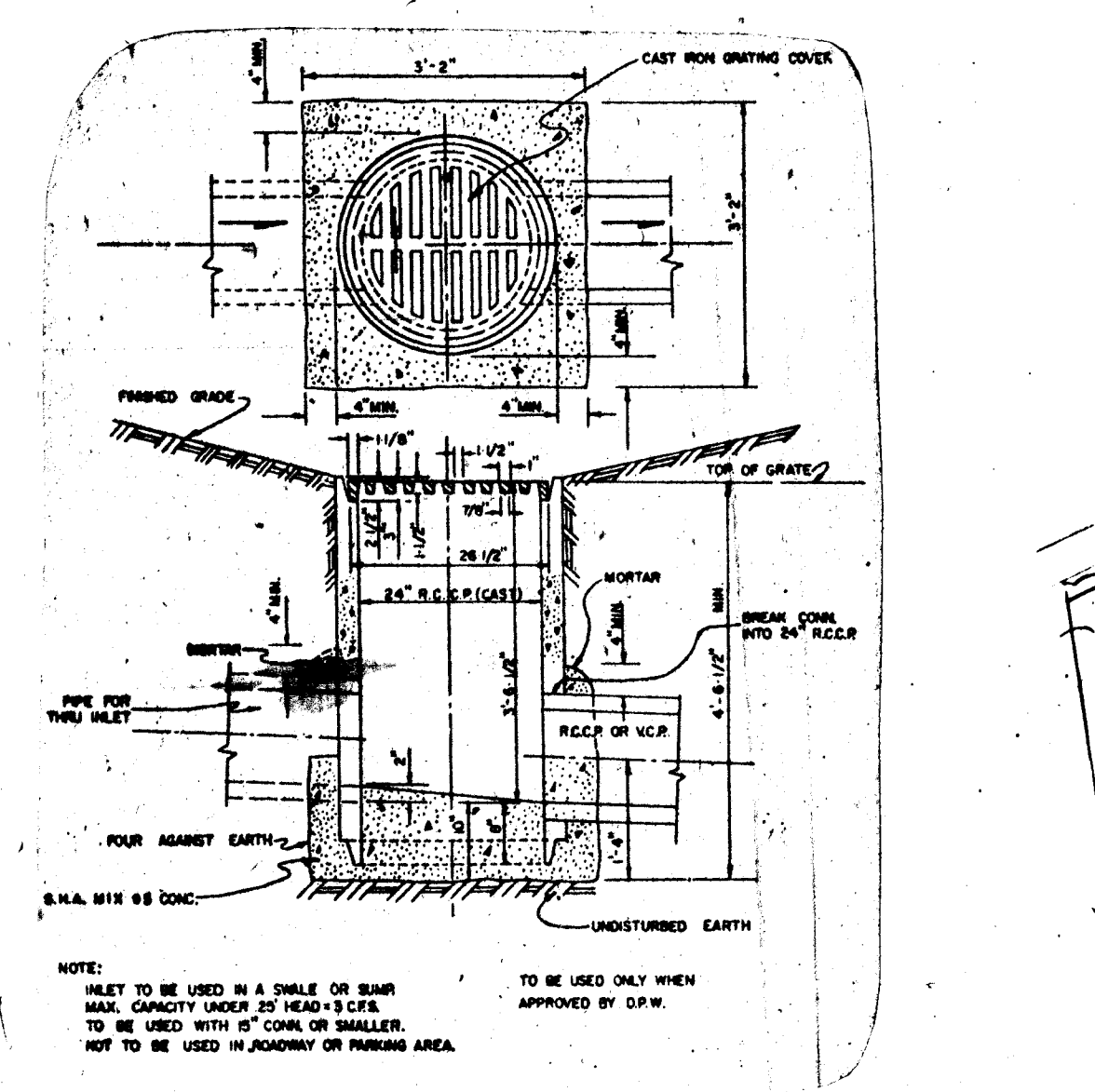
SHEET

S-9



MANHOLES

No.	Type	Size	Inv. Out	Rim Elev.
M-1	Standard Precast	12'-0"	546.09	557.20
M-2	Shallow Precast		534.85	539.40
M-3	Shallow Precast		536.27	542.60



INLET SCHEDULE

No.	Type	Size	Inv. Out	Rim Elev.
I-1	Yard Inlet	1.74	549.56	553.60
I-2	Yard Inlet	0.50	551.84	556.50
I-3	Yard Inlet	0.42	553.50	556.50
I-4	'g'	4.67	526.83	530.00
I-5	Yard Inlet	0.63	539.00	542.00
I-6	Yard Inlet	0.85	537.96	543.00
I-7	'B'	3.99	538.80	541.70
I-8	Yard Inlet	1.24	530.80	533.80
I-9	Yard Inlet	2.09	537.00	540.00
I-10	Yard Inlet	0.80	523.43	527.00
I-11	'S'	4.54	531.00	534.00
I-12	'Y'	1.71	539.54	545.00
I-13	'Y'	0.53	542.10	545.00
I-14	COG-10	0.46	533.5	537.0

MANHOLE SCHEDULE

No.	Type	Size	Inv. Out	Rim Elev.
M-1	Standard Precast	12'-0"	546.09	557.20
M-2	Shallow Precast		534.85	539.40
M-3	Shallow Precast		536.27	542.60

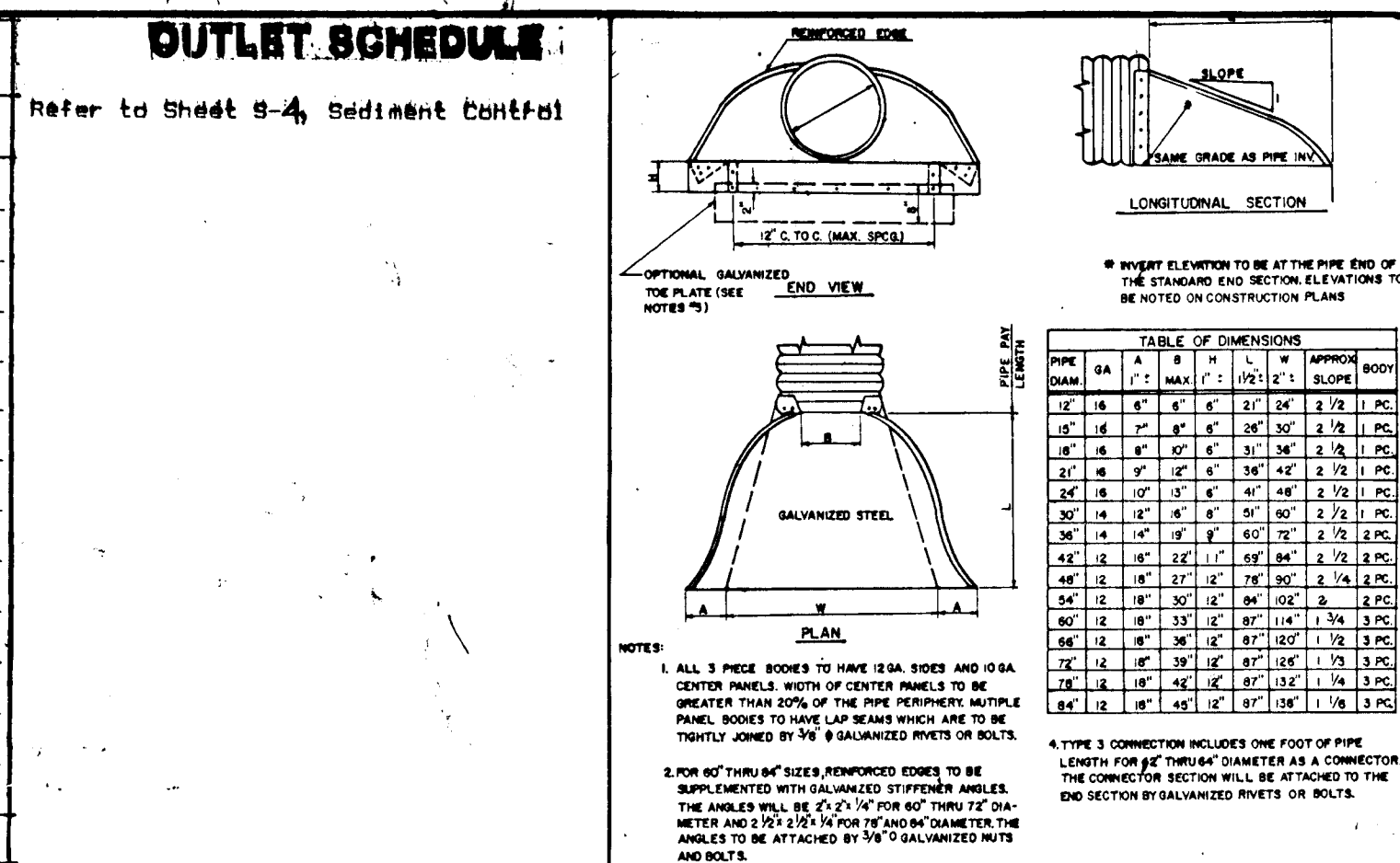
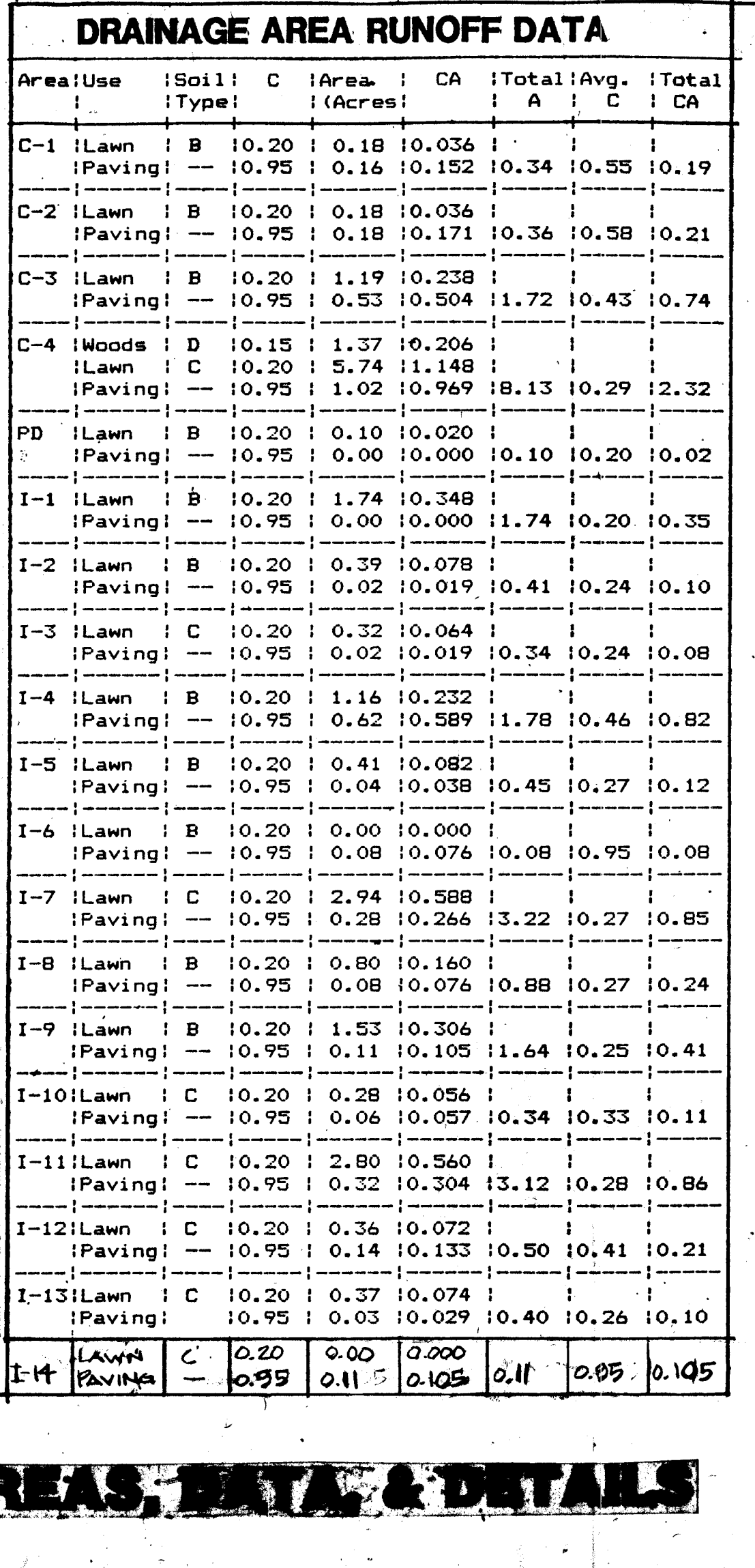
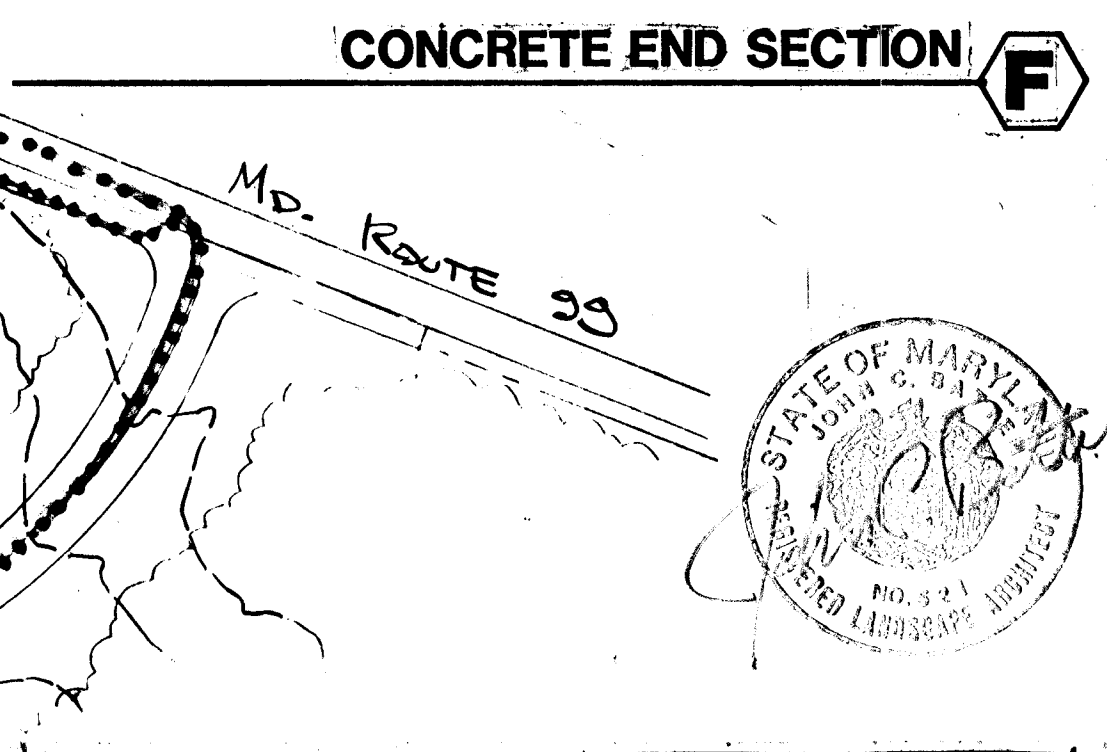
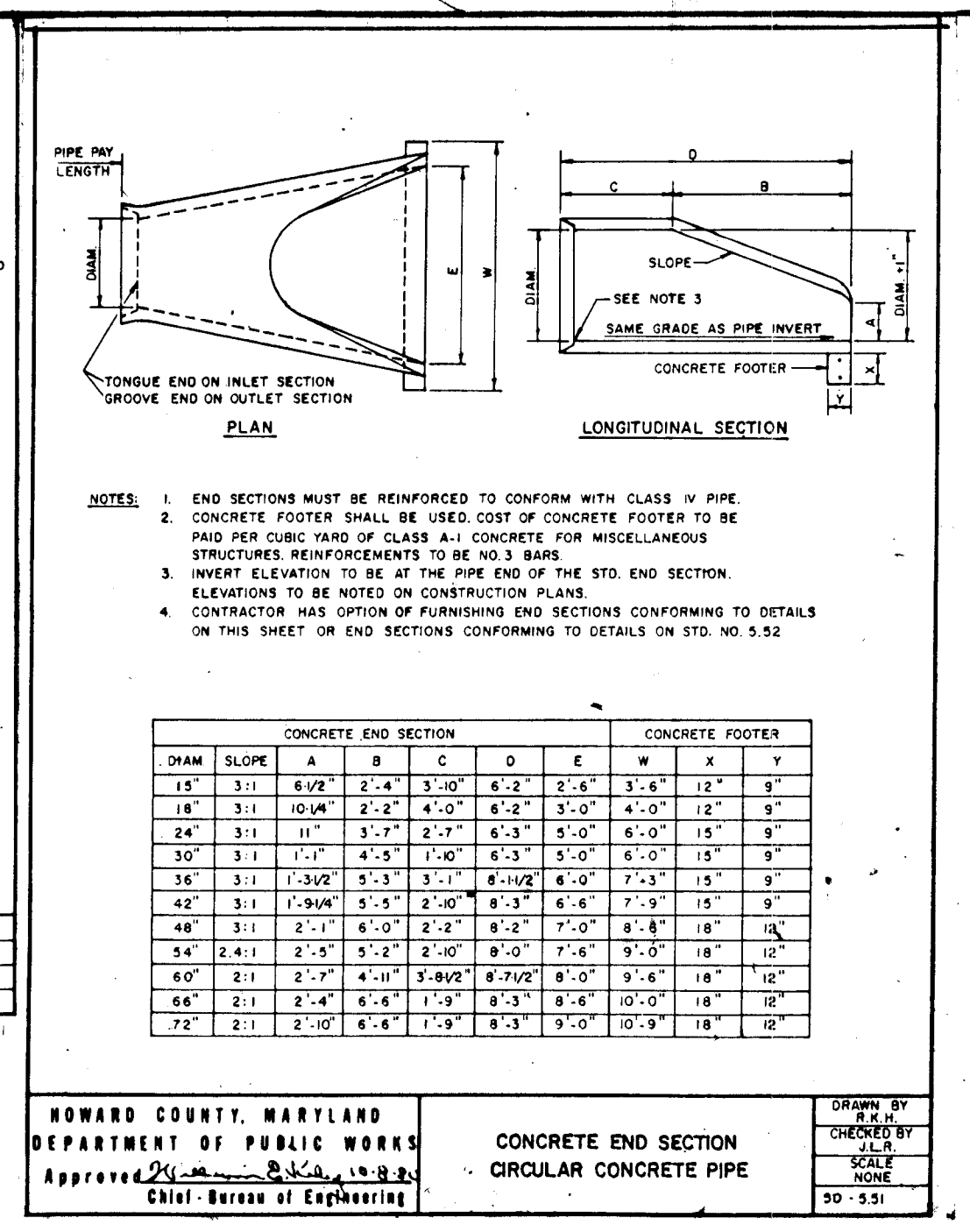


TABLE OF DIMENSIONS

PIPE DIA.	W	H	W	H	W	H	W	H	W	H
48"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"
60"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
72"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
84"	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"



APPROVALS

HOWARD COUNTY

DEPT. OF PUBLIC WORKS	Director	Date
Chief, Bureau of Engineering		Date
DEPT. OF PLANNING & ZONING	Director	Date
Chief, Division of Community Planning & Land Development		Date

BUREAU OF FACILITIES

Chief

Date

BUREAU OF HIGHWAYS

Chief

Date

ROADS, BRIDGES, STORM DRAINS DIVISION

Chief

Date

APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS

PROPOSED IMPROVEMENT: PARK

DEED REF: LIBER 847, FOLIO 606

TAX MAP #10, PARCEL #23

ELECTION DISTRICT #3

CENSUS TRACT 6030

WATER: PRIVATE (WELL)

SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989

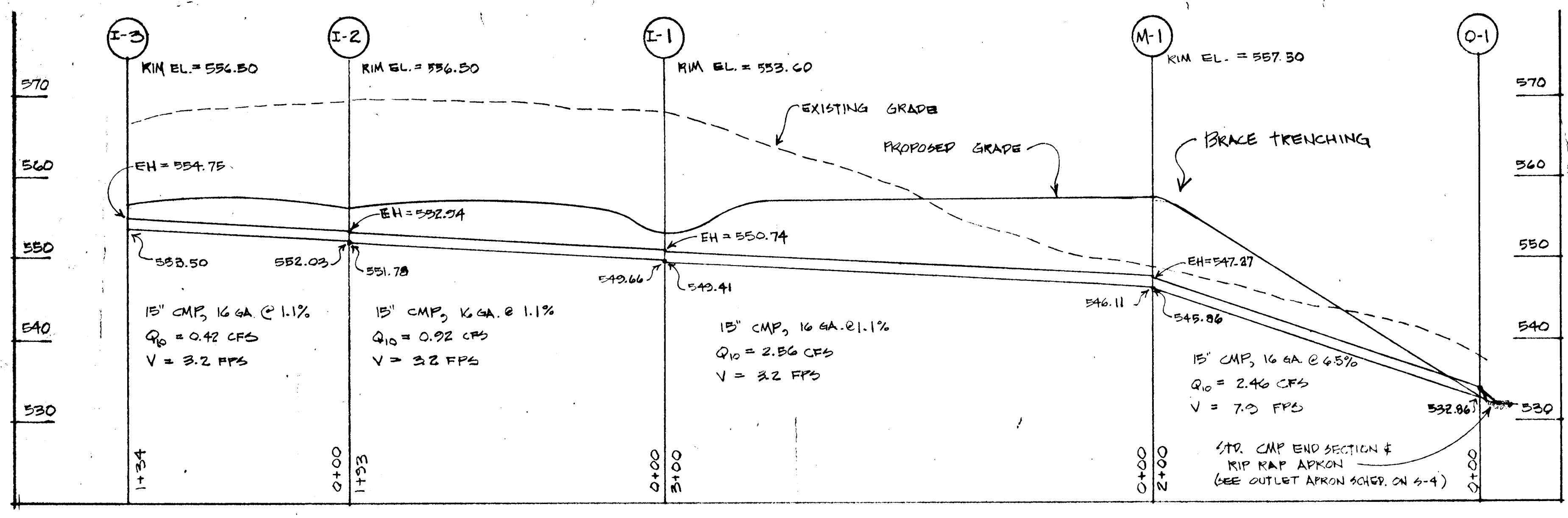


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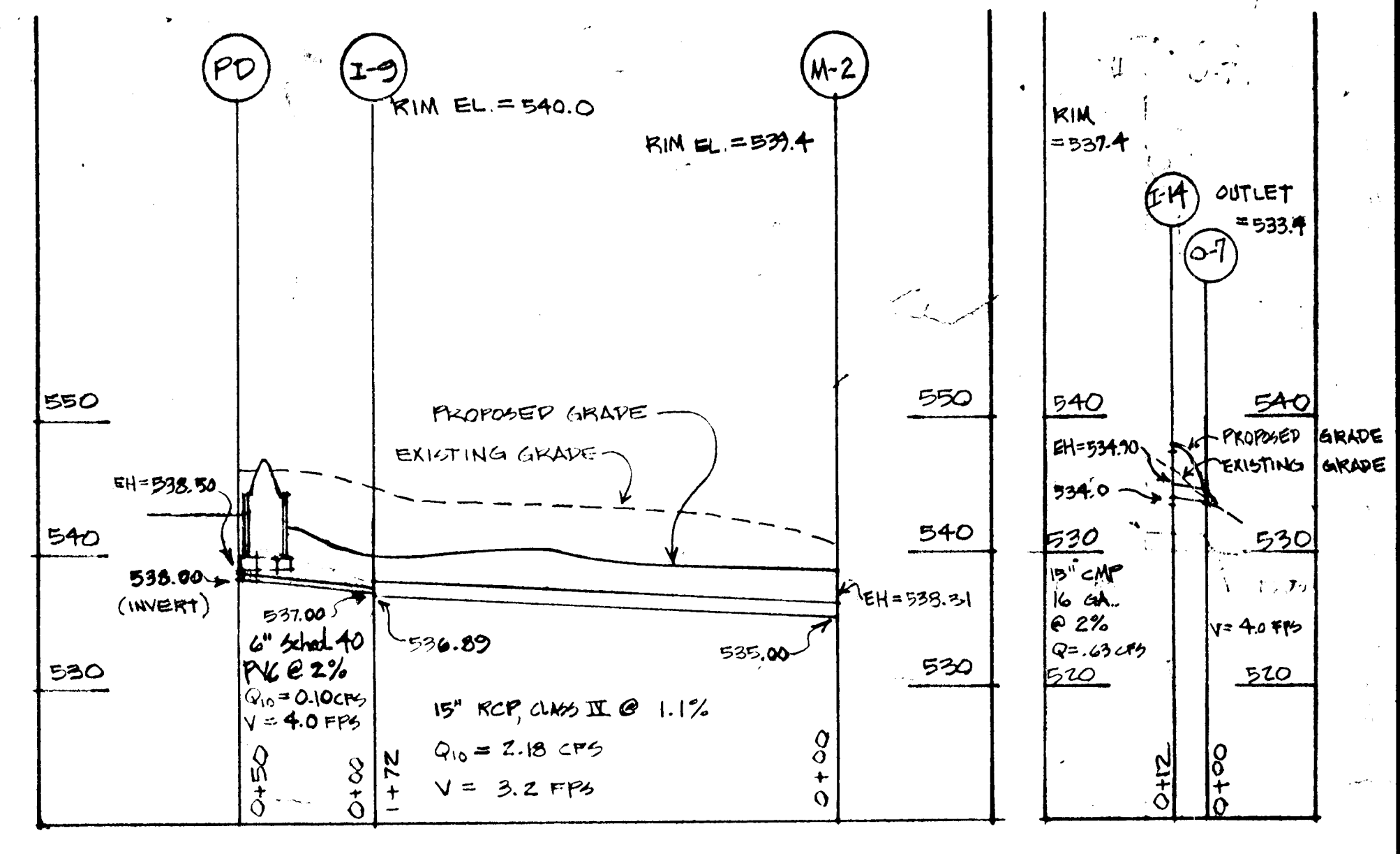
S-10

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 405 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3383

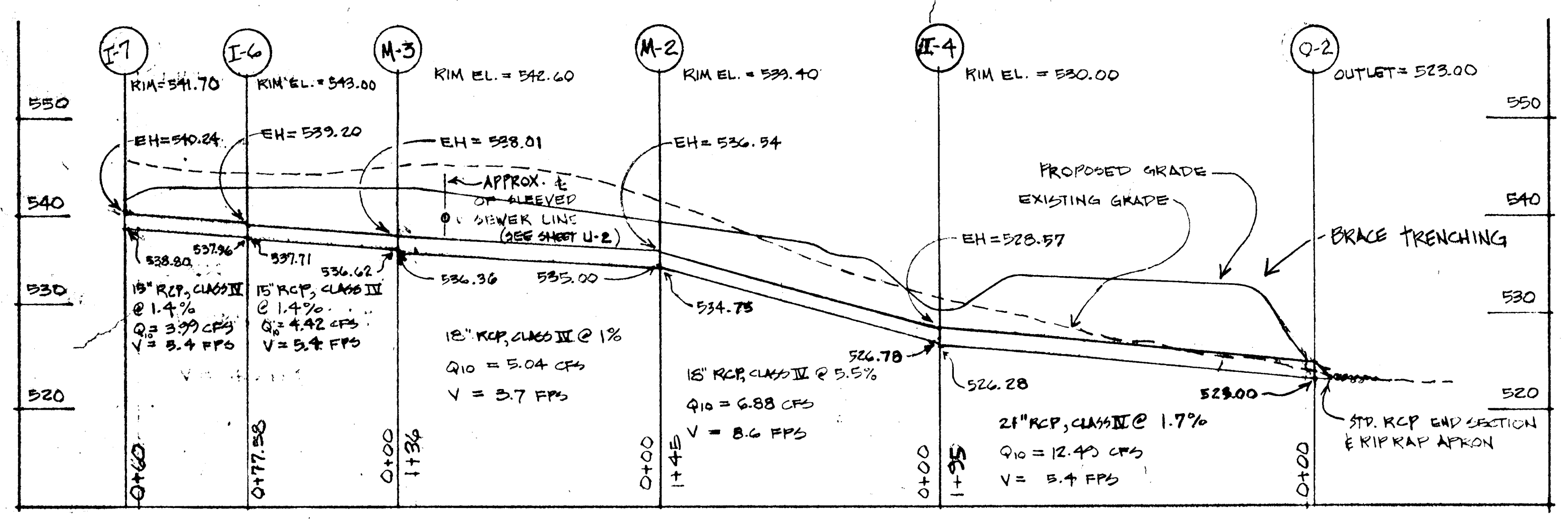
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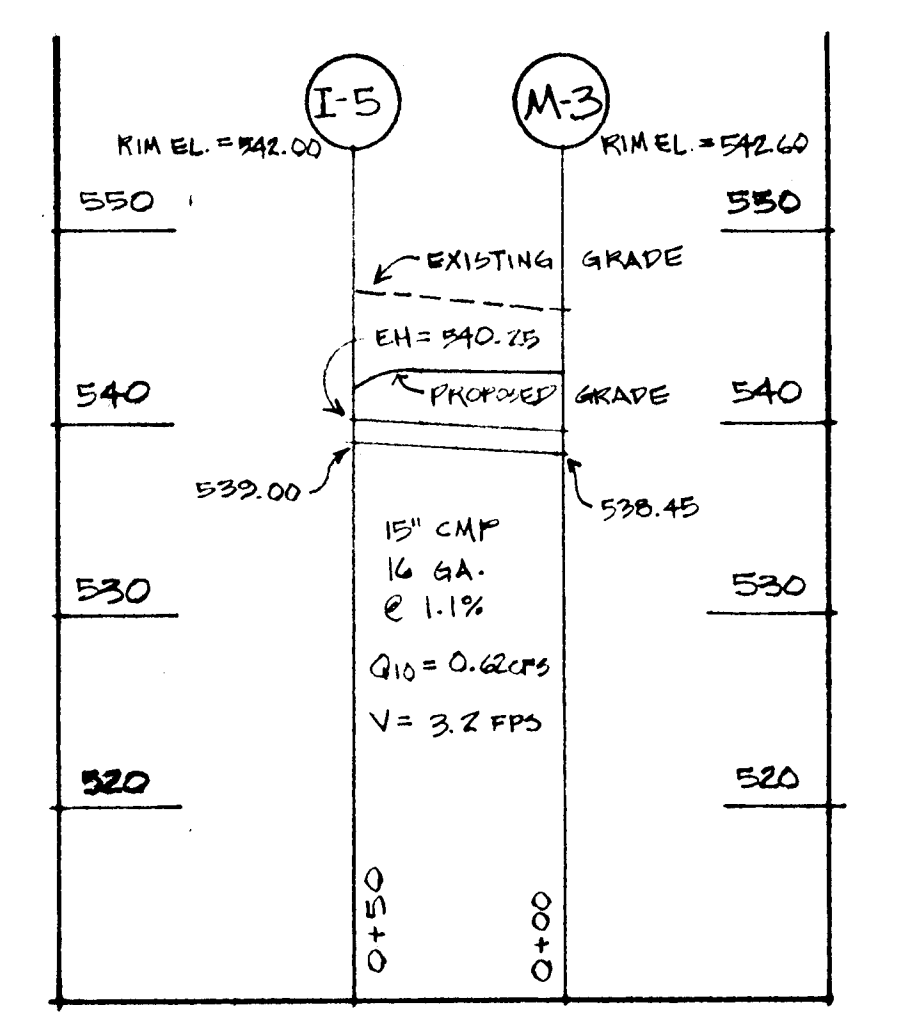
INLET 3 to OUTLET 1



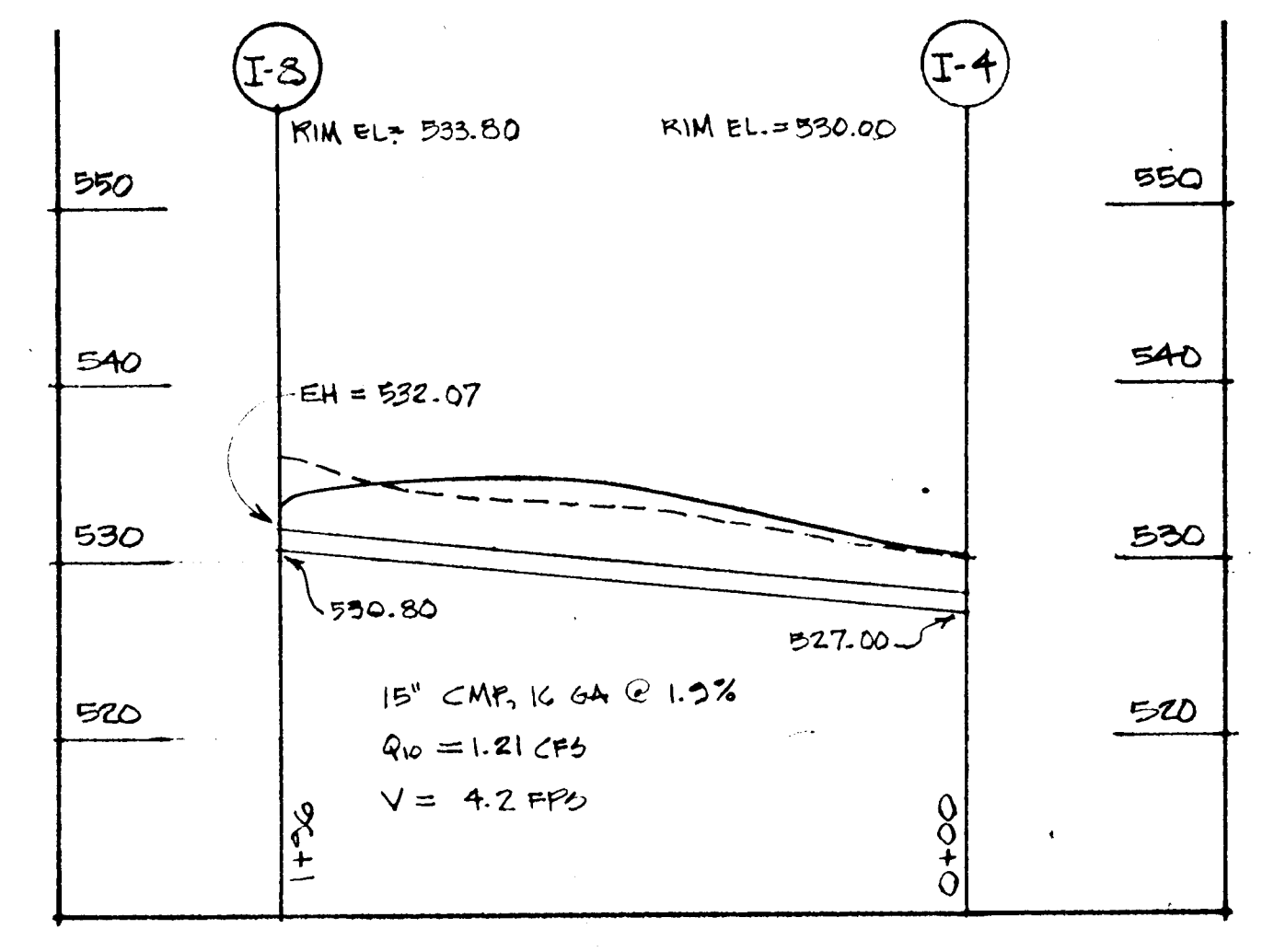
PERIMETER DRAIN to MANHOLE 2 I-14 to O-7



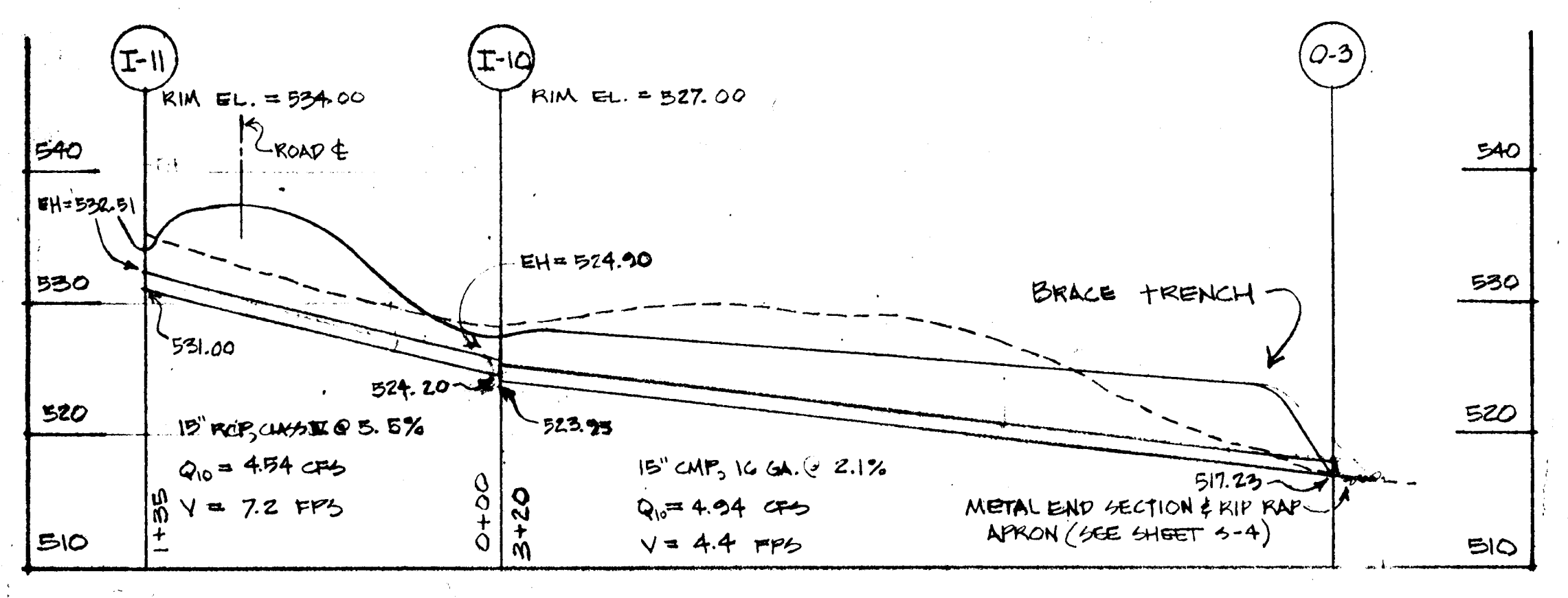
INLET 7 to OUTLET 2



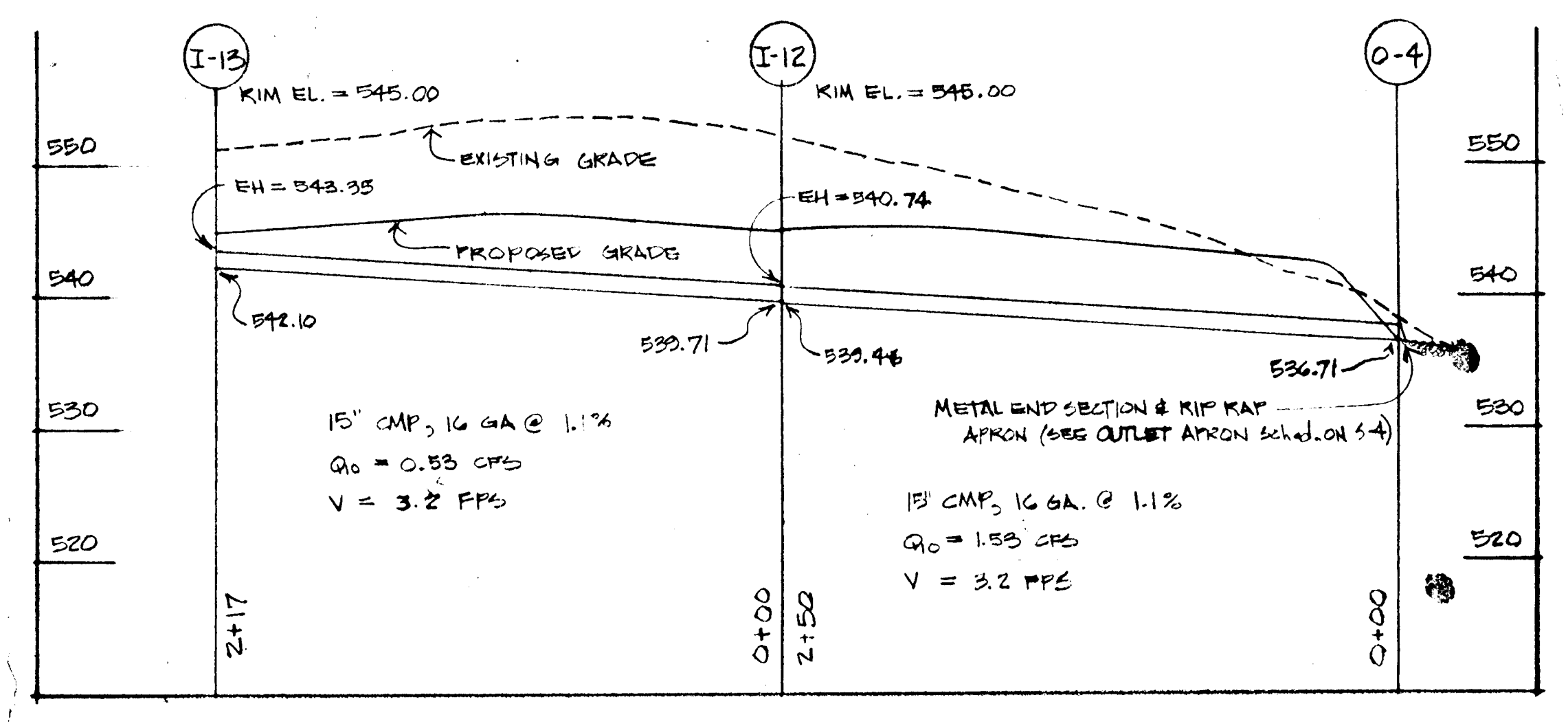
INLET 5 to MANHOLE 3



INLET 8 to INLET 4



INLET 11 to OUTLET 3



INLET 13 to OUTLET 4

NOTE HYDRAULIC GRADIENT IS ASSUMED TO BE AT OR BELOW THE PIPE CROWN IN ACCORDANCE W/ THE 'SIMPLIFIED' DESIGN METHOD SET FORTH IN THE HOWARD COUNTY DESIGN MANUAL.

STORM DRAIN PROFILES

SCALE Horiz. 1" = 50'
 VERT. 1" = 10'

NOTE: PROVIDE BRACING IN TRENCHES AS REQUIRED BY OSHA OR AS REQUIRED FOR SAFE CONSTRUCTION PRACTICE.

APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS
 Director _____ Date _____
 Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING
 Director _____ Date _____
 Chief, Division of Community Planning & Land Development _____ Date _____

BUREAU OF FACILITIES
 Chief _____ Date _____

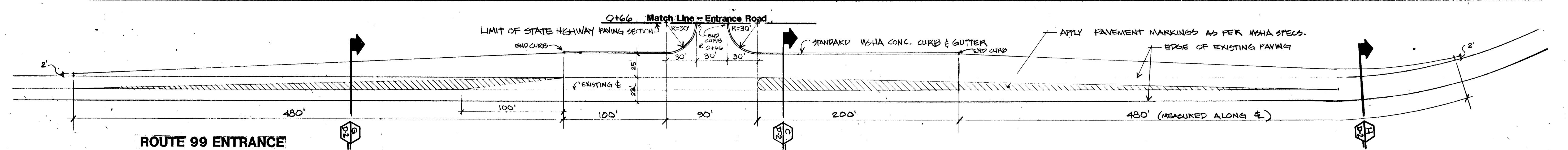
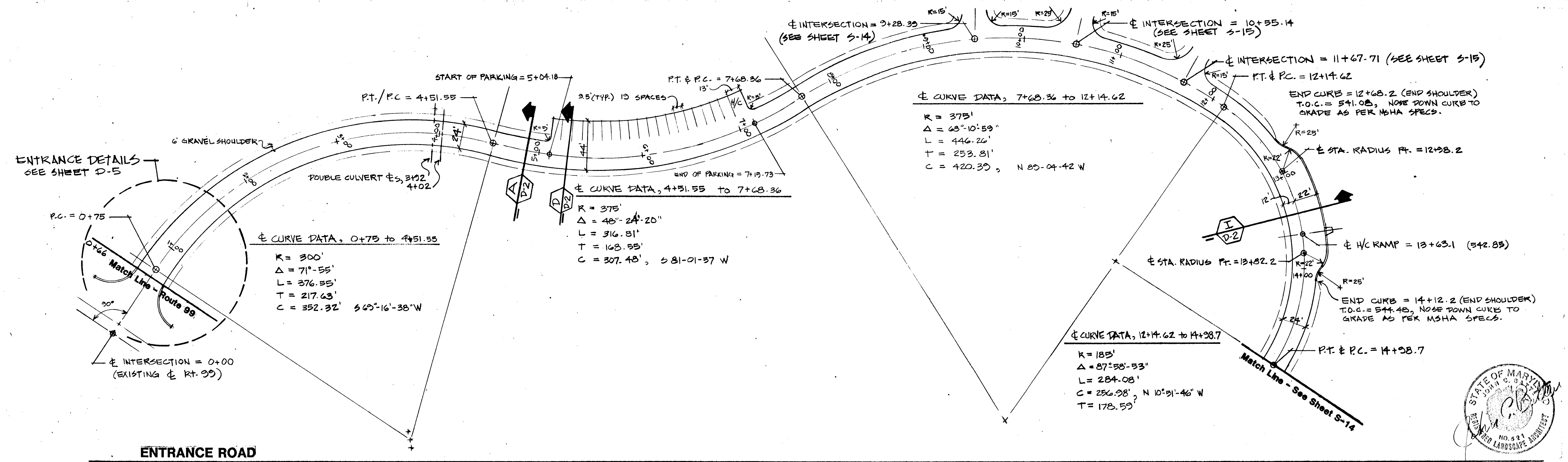
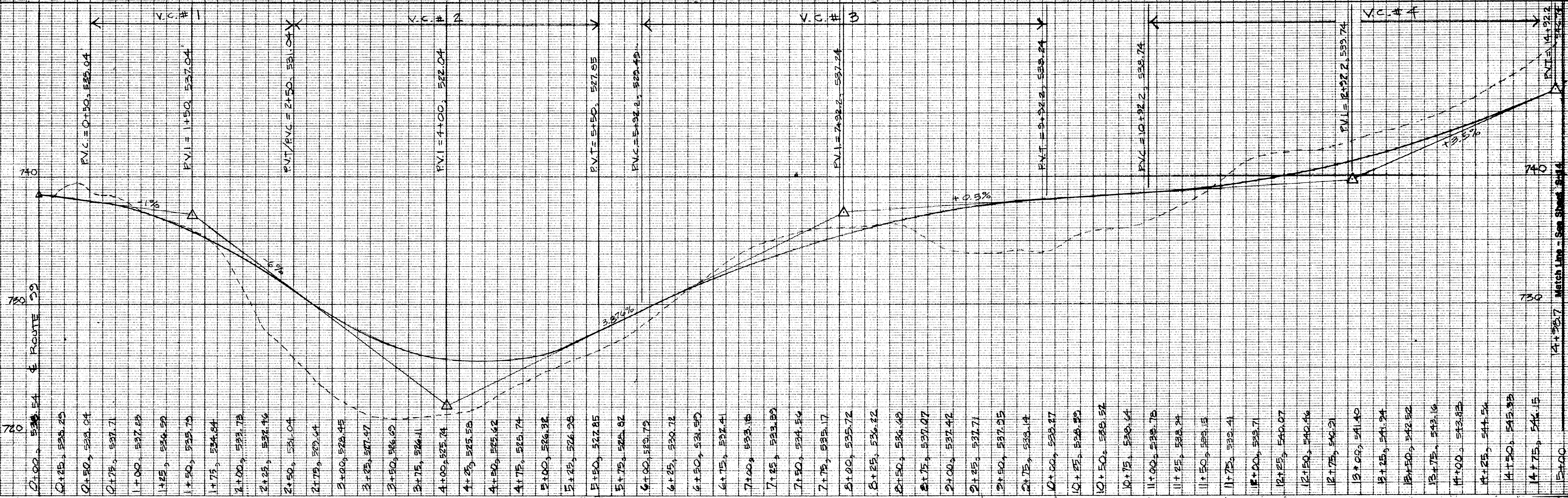
BUREAU OF HIGHWAYS
 Chief _____ Date _____

ROADS, BRIDGES, STORM DRAINS DIVISION
 Chief _____ Date _____

APPROVAL STAMP
SITE DATA
 OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF. LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989

SHEET
S-13
J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 405 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3385



NOTES: 1.) LAYOUT CO-ORDINATES FOR ROADS AND PARKING LOTS - SEE SHEET S-10
 2.) PAVING SECTIONS - SEE SHEET D-2
 3.) ALL EXISTING PAVING MARKINGS MUST BE ELIMINATED BY CONTRACTOR AS DIRECTED BY S.H.A. REPRESENTATIVE

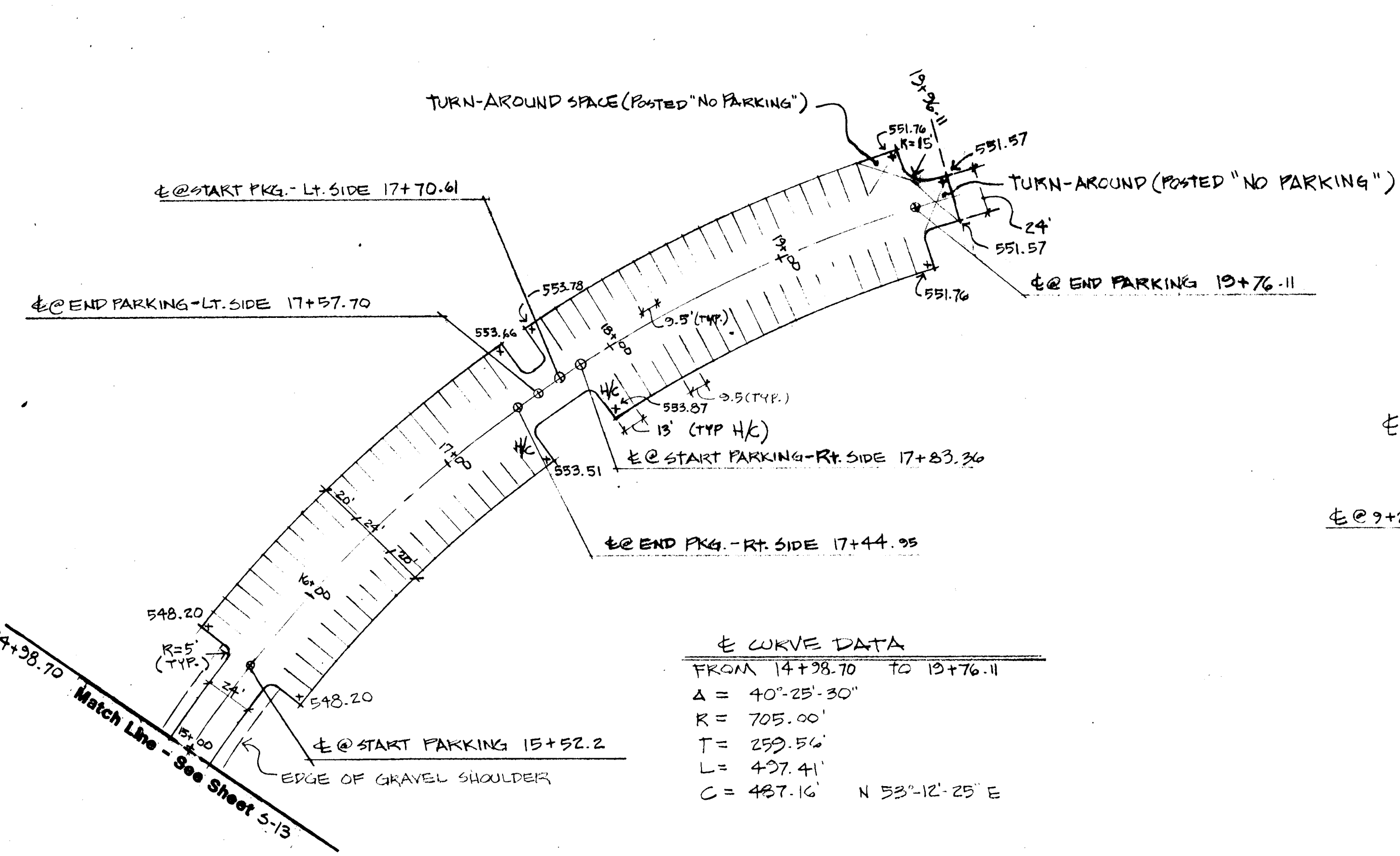
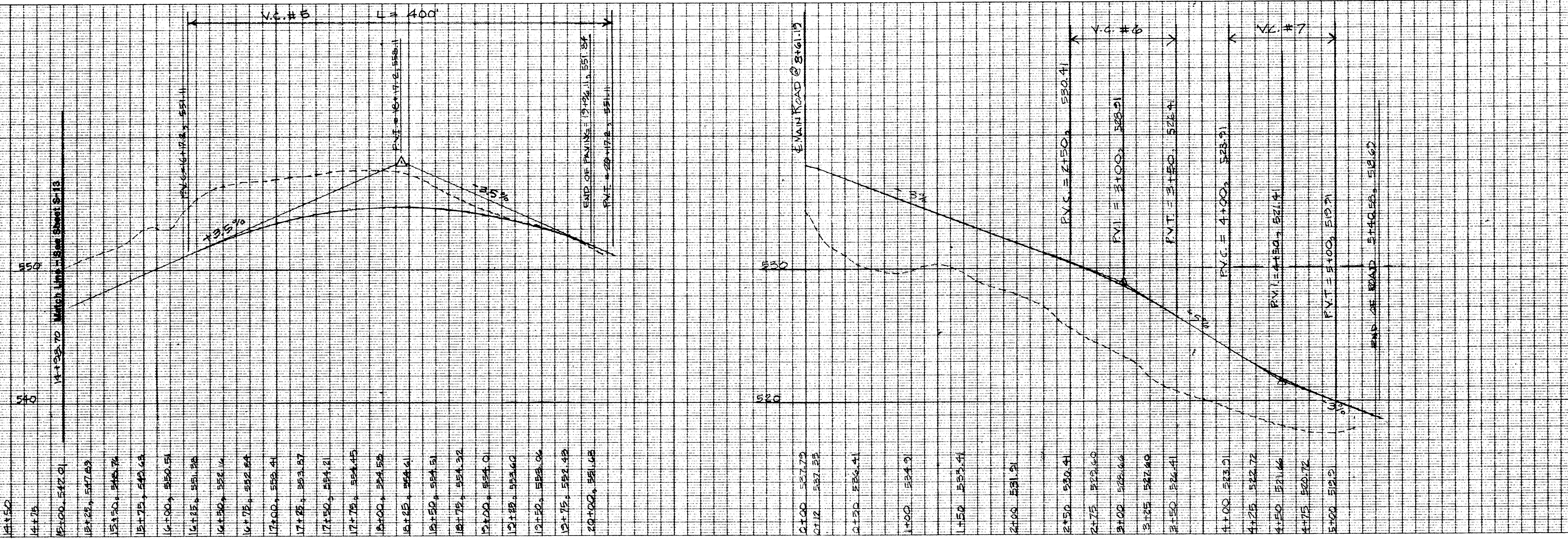
ROUTE 99 ENTRANCE & MAIN ROAD 0-00 TO 14-98.7 ROAD PROFILE

SCALES: Profile Horiz. 1" = 50' PLAN 1" = 50'
 Vert. 1" = 4'

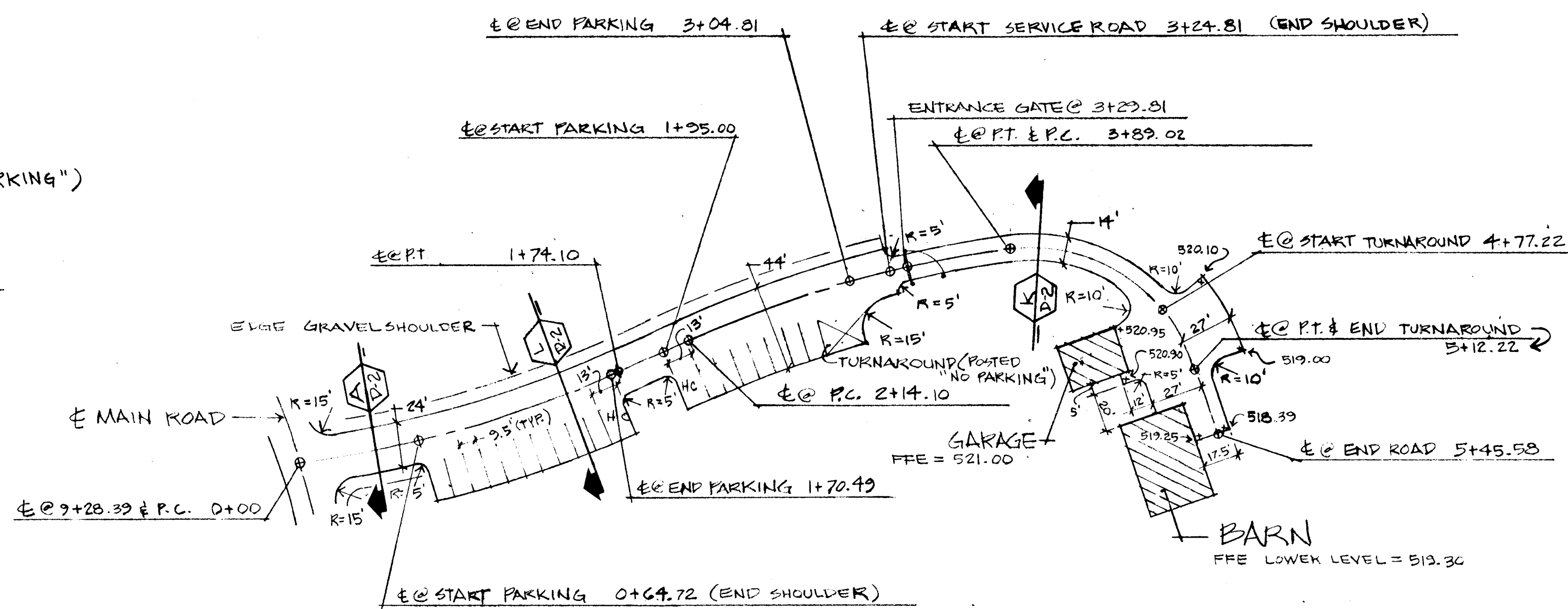


APPROVALS
 HOWARD COUNTY

DEPT. OF PUBLIC WORKS	
Director	Date
Chief, Bureau of Engineering	Date
DEPT. OF PLANNING & ZONING	
Director	Date
Chief, Division of Community Planning & Land Development	Date
BUREAU OF FACILITIES	
Chief	Date
BUREAU OF HIGHWAYS	
Chief	Date
ROADS, BRIDGES, STORM DRAINS DIVISION	
Chief	Date



Curve Data
 FROM 14+38.70 TO 19+76.11
 $\Delta = 40^\circ 25' 30''$
 $R = 705.00'$
 $T = 259.56'$
 $L = 427.41'$
 $C = 427.16'$ $N 53^\circ 12' 25'' E$



Curve Data
 FROM 0+00 TO 1+74.10
 $\Delta = 17^\circ 30' 00''$
 $R = 570.00'$
 $T = 27.72'$
 $L = 174.92'$
 $C = 174.23'$ $S 01^\circ 52' 13'' E$

Curve Data
 FROM 2+14.10 TO 3+29.02
 $\Delta = 17^\circ 34' 58''$
 $R = 570.00'$
 $T = 88.15'$
 $L = 174.92'$
 $C = 174.23'$ $S 01^\circ 52' 13'' E$

Curve Data
 FROM 3+29.02 TO 5+12.22
 $\Delta = 78^\circ 26' 02''$
 $R = 90.00'$
 $T = 73.43'$
 $L = 123.20'$
 $C = 113.21'$ $S 46^\circ 08' 15'' W$

NOTES: 1) LAYOUT COORDINATES FOR ROADS & PARKING LOTS - SEE SHEET S-16
 2) PAVING SECTIONS - SEE SHEET D-2

MAIN ROAD 14-98.17 & ROAD TO MAINTENANCE GARAGE ROAD PROFILE

SCALES Profile Horiz. 1"=50' Vert. 1"=4'
 Plan 1"=50'

APPROVAL STAMP

SITE DATA
 OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 606
 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

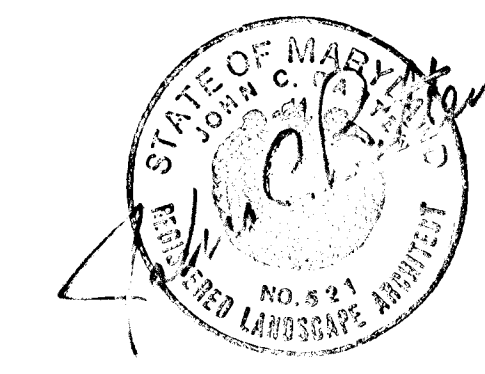
SEPTEMBER 21, 1989



SHEET

S-14

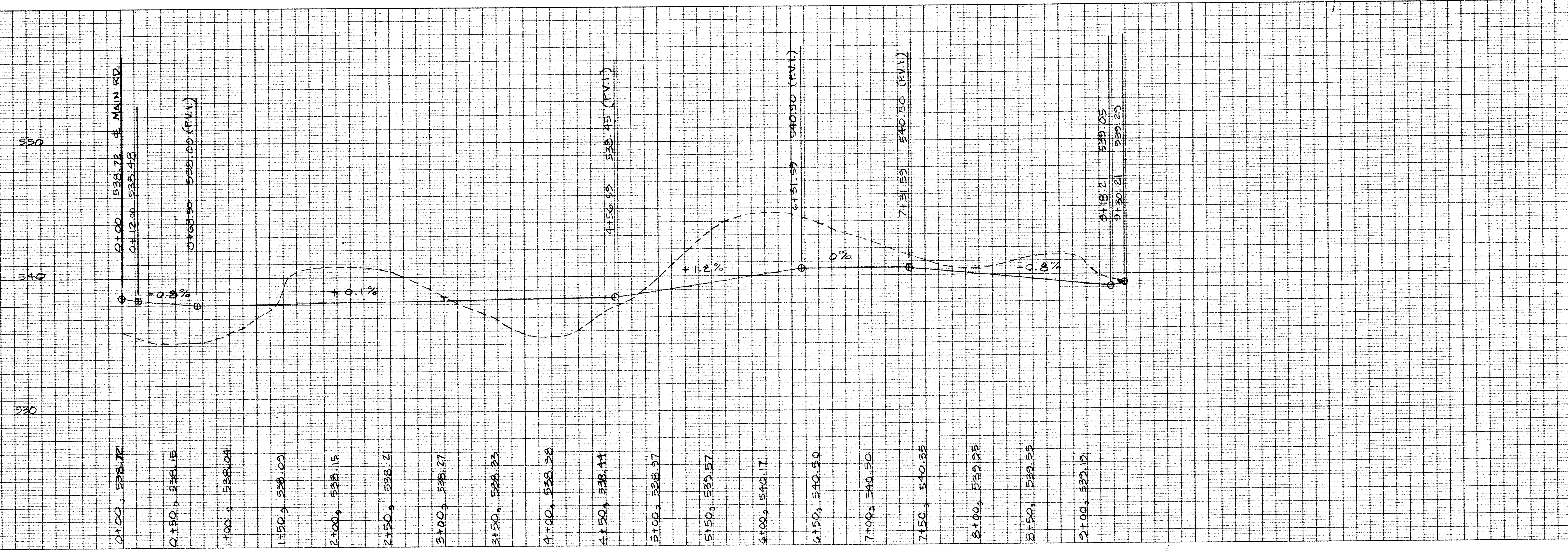
403 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3385



APPROVALS

HOWARD COUNTY:

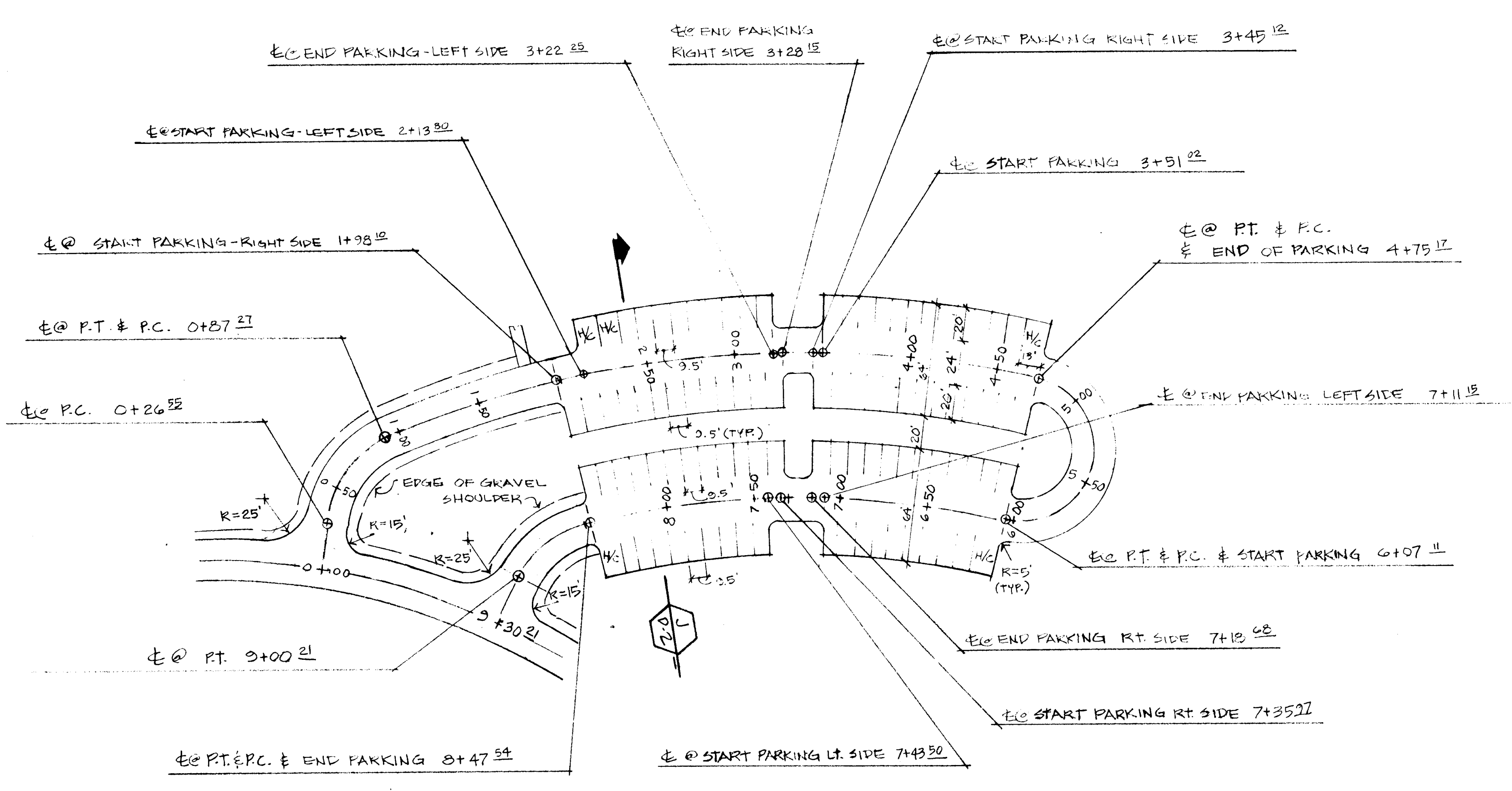
DEPT. OF PUBLIC WORKS	
Director	Date
Chief, Bureau of Engineering	Date
DEPT. OF PLANNING & ZONING	
Director	Date
Chief, Division of Community Planning & Land Development	Date
BUREAU OF FACILITIES	
Chief	Date
BUREAU OF HIGHWAYS	
Chief	Date
ROADS, BRIDGES, STORM DRAINS DIVISION	
Chief	Date



NOTE:
 NO VERTICAL CURVE COMPUTATIONS HAVE BEEN PREPARED FOR THIS SECTION OF ROAD DUE TO THE LIMITED SLOPES. ALSO THIS IS A LOW SPEED TRAVEL AREA THROUGH THE PARKING LOT.

HORIZONTAL CURVE DATA

STATIONS	DELTA	RADIUS	ARC	TANGENT	CHORD BEARING & DISTANCE
0+26.52 to 0+87.27	57°59'-15"	60.00'	40.72'	33.25'	S 40°-01'-57" W 58.17'
0+87.27 to 4+75.11	35°00'-00"	65.00'	387.90'	200.21'	S 86°-31'-33" W 331.90'
4+75.11 to 6+07.11	180°00'-00"	42.00'	131.94'	NONE	N 14°-01'-33" E 84.00'
6+07.11 to 8+47.54	25°00'-00"	551.00'	240.42'	122.15'	N 88°-28'-27" W 238.52'
8+47.54 to 9+00.00	49°-28'-31"	61.00'	52.67'	28.11'	S 54°-17'-18" W 51.05'



NOTES: 1) LAYOUT COORDINATES FOR ROADS & PARKING LOTS - SEE SHEET S-16
 2) PAVING SECTIONS - SEE SHEET D-2

PARKING LOT LOOP ROAD PROFILE

SCALE: Profile Horiz. 1"=50' Plan 1"=50'
 Vertical 1"=4'

APPROVAL STAMP

SITE DATA

OWNER: HOWARD COUNTY
 DEPT. OF PUBLIC WORKS
 PROPOSED IMPROVEMENT: PARK
 DEED REF: LIBER 847, FOLIO 888
 TAX MAP #18, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

SEPTEMBER 21, 1989



SHEET
S-15

APPROVALS
 HOWARD COUNTY:

DEPT. OF PUBLIC WORKS
 Director _____ Date _____
 Chief, Bureau of Engineering _____ Date _____

DEPT. OF PLANNING & ZONING
 Director _____ Date _____
 Chief, Division of Community Planning & Land Development _____ Date _____

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ROADS, BRIDGES, STORM DRAINS DIVISION
 Chief _____ Date _____



APPROVAL STAMP

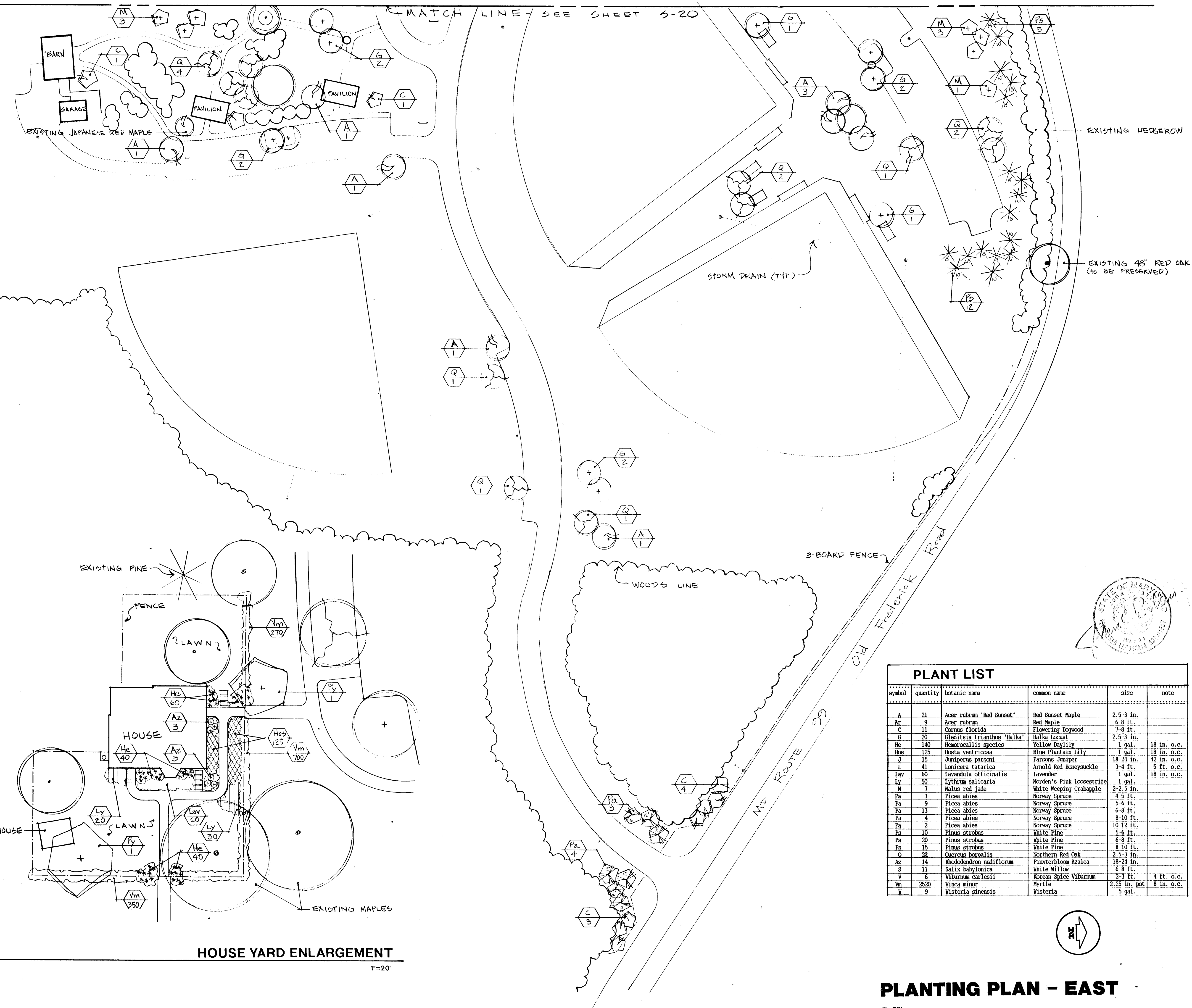
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OWNER: HOWARD COUNTY
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 TAX MAP #10, PARCEL #23
 ELECTION DISTRICT #3
 CENSUS TRACT 6030
 WATER: PRIVATE (WELL)
 SEWER: PRIVATE (SEPTIC SYSTEM)

NOVEMBER 21, 1989



SHEET
S-19



PLANT LIST

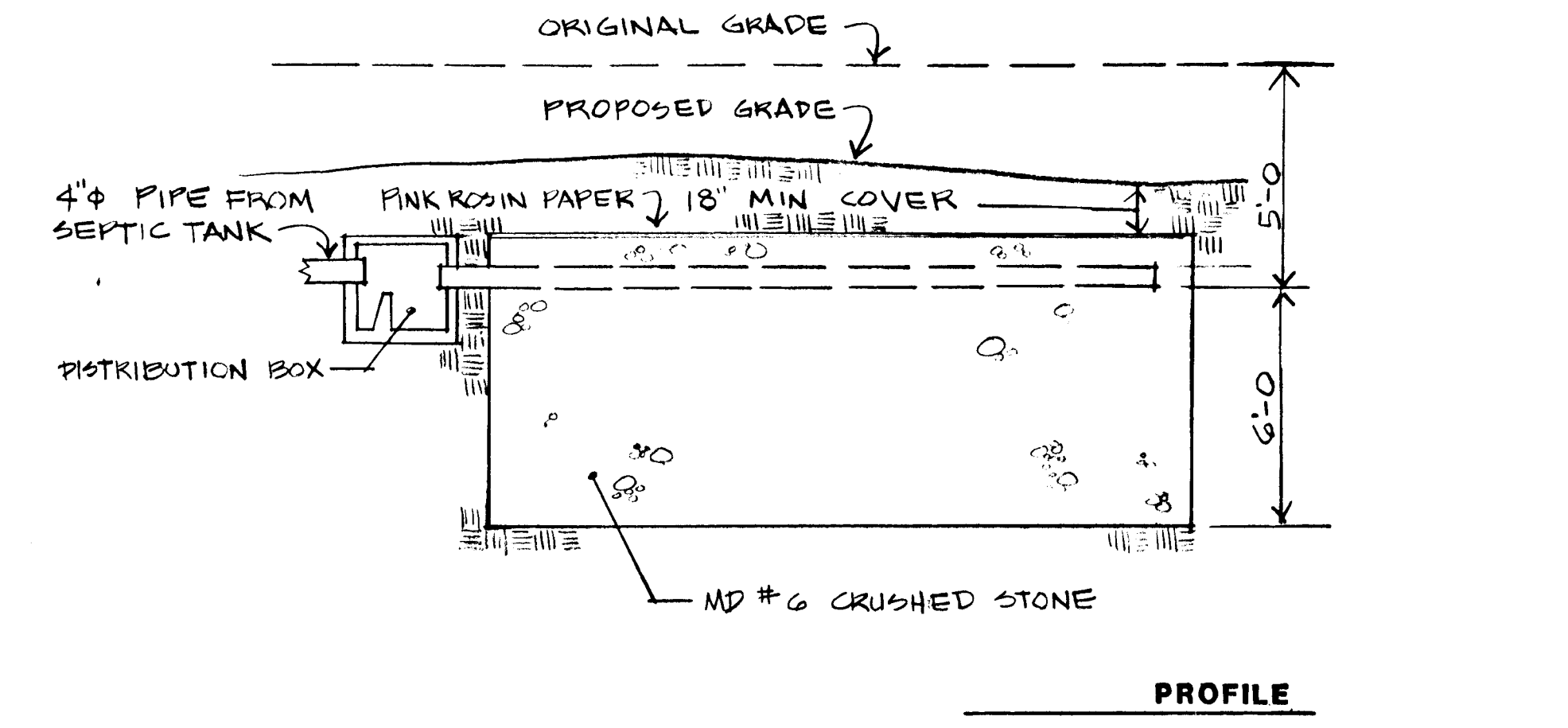
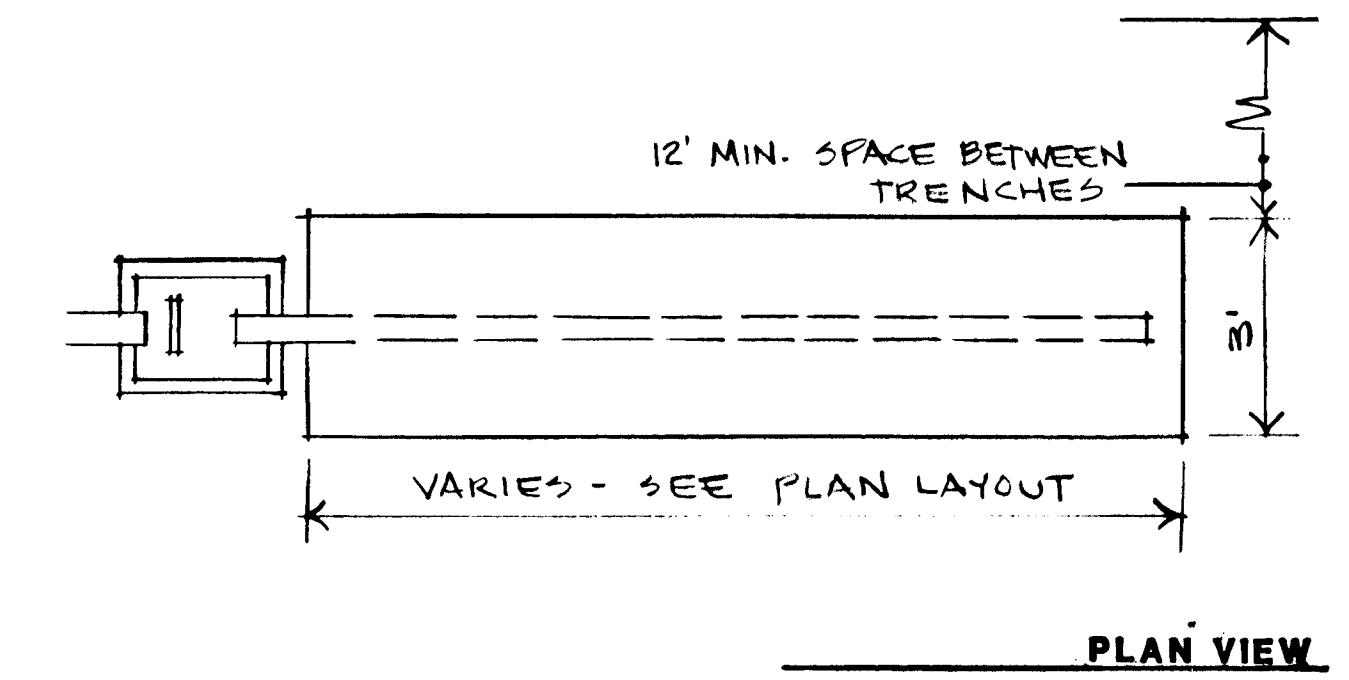
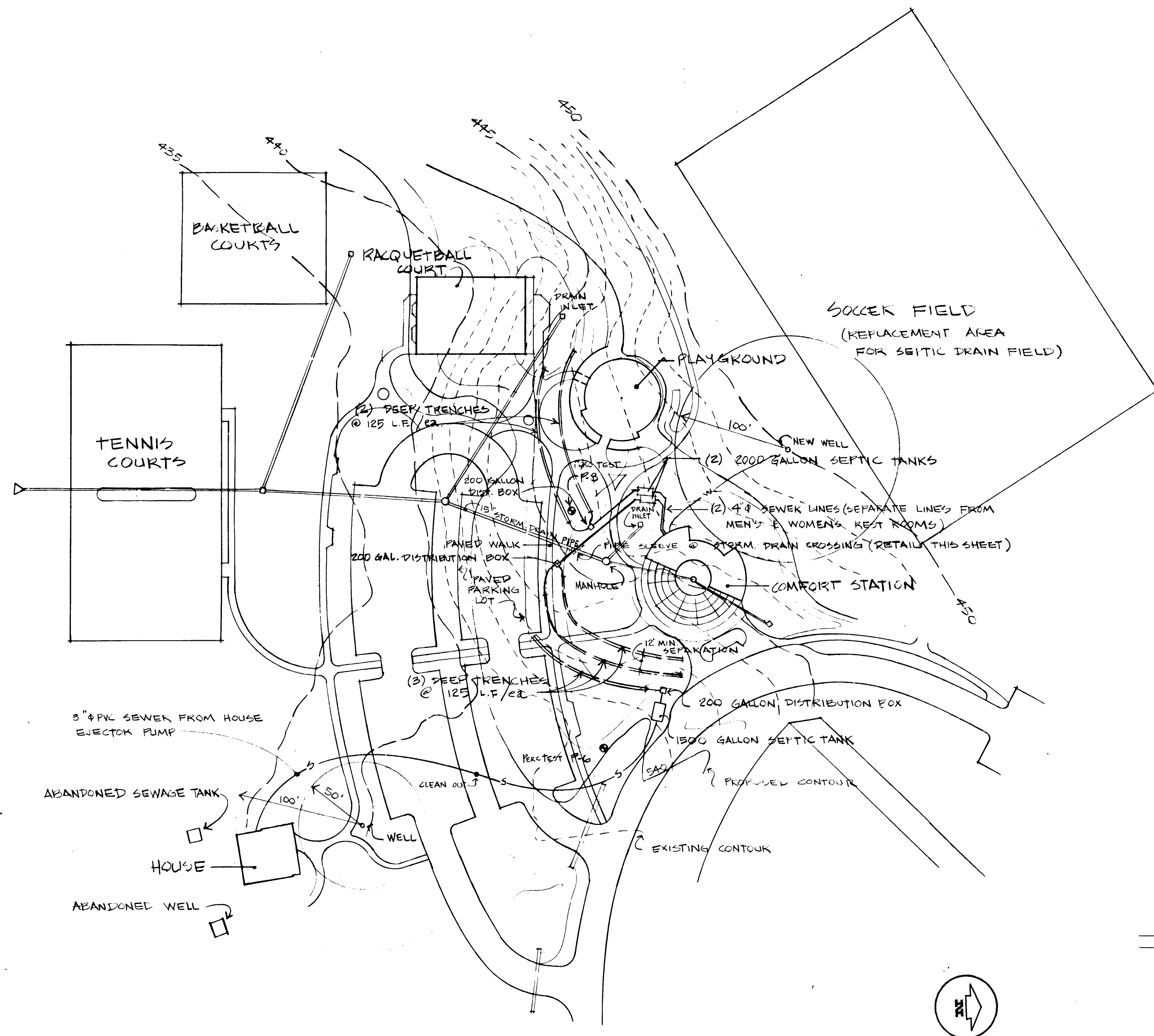
symbol	quantity	botanic name	common name	size	note
A	21	Acer rubrum 'Red Sunset'	Red Sunset Maple	2.5-3 in.	
Ac	9	Acer rubrum	Red Maple	6-8 ft.	
C	11	Cornus florida	Flowering Dogwood	7-8 ft.	
G	20	Gleditsia trianthos 'Halka'	Halka Locust	2.5-3 in.	
He	140	Hemocallis species	Yellow Daylily	1 gal.	18 in. o.c.
Hka	125	Heta ventricosa	Blue Plantain Lily	1 gal.	18 in. o.c.
J	15	Juniperus parsoni	Parsons Juniper	18-24 in.	42 in. o.c.
L	41	Lonicera tatarica	Arnold Red Honeysuckle	3-4 ft.	5 ft. o.c.
Lav	60	Lavandula officinalis	lavender	1 gal.	18 in. o.c.
Ly	50	Lythrum salicaria	Morden's Pink Loosestrife	1 gal.	
M	7	Malus red jade	White Weeping Crabapple	2-2.5 in.	
Pa	3	Picea abies	Norway Spruce	4-5 ft.	
Pa	9	Picea abies	Norway Spruce	5-6 ft.	
Pa	13	Picea abies	Norway Spruce	6-8 ft.	
Pa	4	Picea abies	Norway Spruce	8-10 ft.	
Pa	2	Picea abies	Norway Spruce	10-12 ft.	
Pa	10	Pinus strobus	White Pine	5-6 ft.	
Pa	20	Pinus strobus	White Pine	6-8 ft.	
Pa	15	Pinus strobus	White Pine	8-10 ft.	
Q	22	Quercus borealis	Northern Red Oak	2.5-3 in.	
Az	14	Rhododendron nudiflorum	Flintchilom Azalea	18-24 in.	
S	11	Salix babylonica	White Willow	6-8 ft.	
V	6	Viburnum carlesii	Korean Spice Viburnum	2-3 ft.	4 ft. o.c.
Vn	2520	Vinca minor	Myrtle	2.25 in. pot	8 in. o.c.
W	9	Wisteria sinensis	Wisteria	5 gal.	

HOUSE YARD ENLARGEMENT

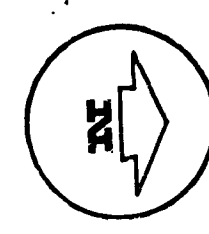
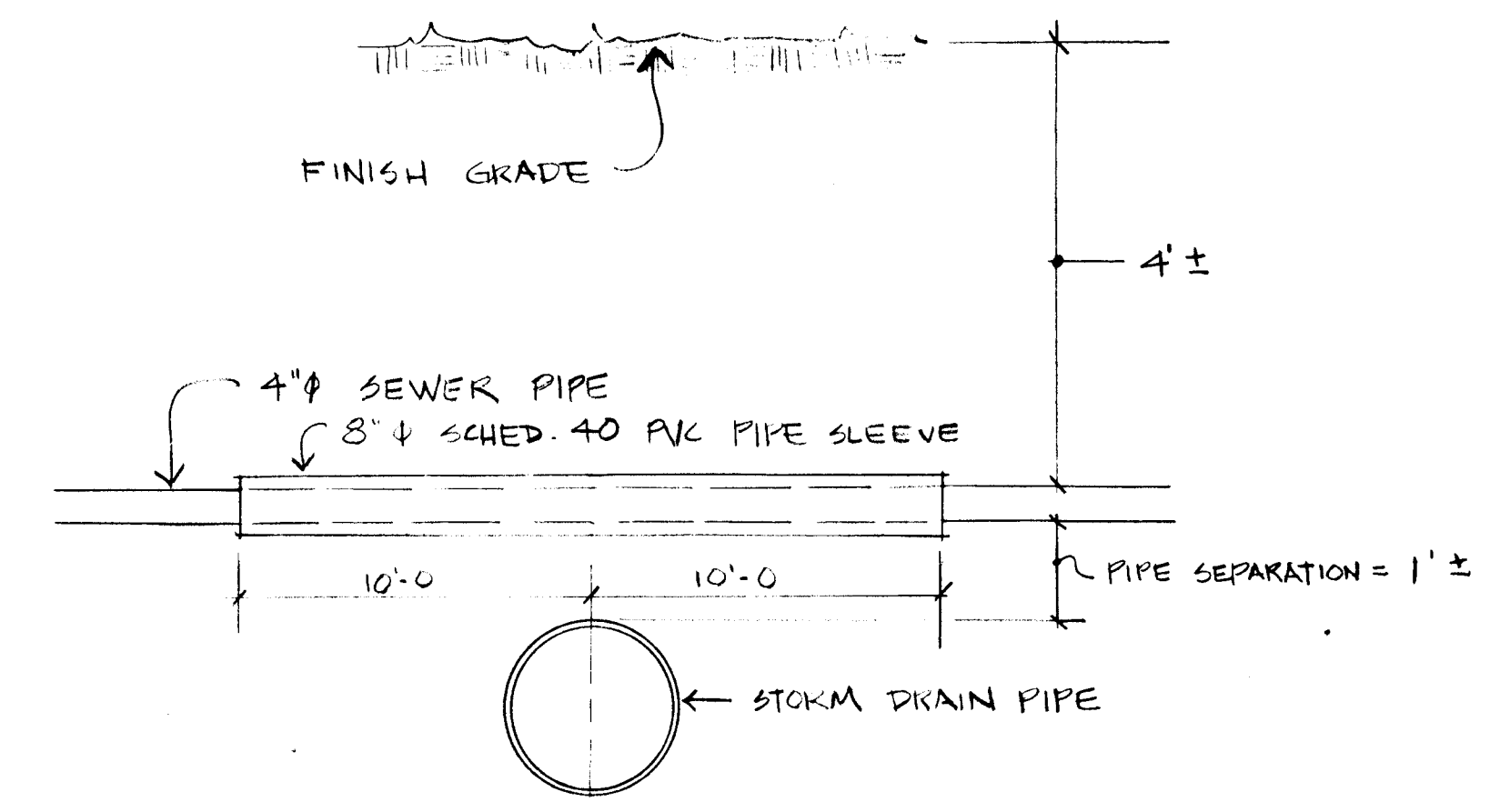
1"=20'

PLANTING PLAN - EAST

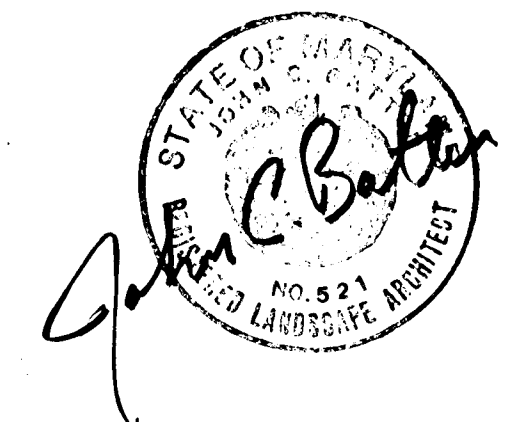
1"=50'



DEEP TRENCH
ntg



SEPTIC SYSTEM



ALPHA RIDGE PARK ♦ Construction Drawings
 CAPITAL PROJECT # N-3087
 HOWARD COUNTY * DEPARTMENT OF RECREATION & PARKS * DEPARTMENT OF PUBLIC WORKS

J. CHRISTOPHER BATTEN, INC.
 Land Planning & Design Consultant
 403 Malcolm Drive
 Westminster, Maryland 21157
 301-876-3383

NOV 30 2009

SHEET

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