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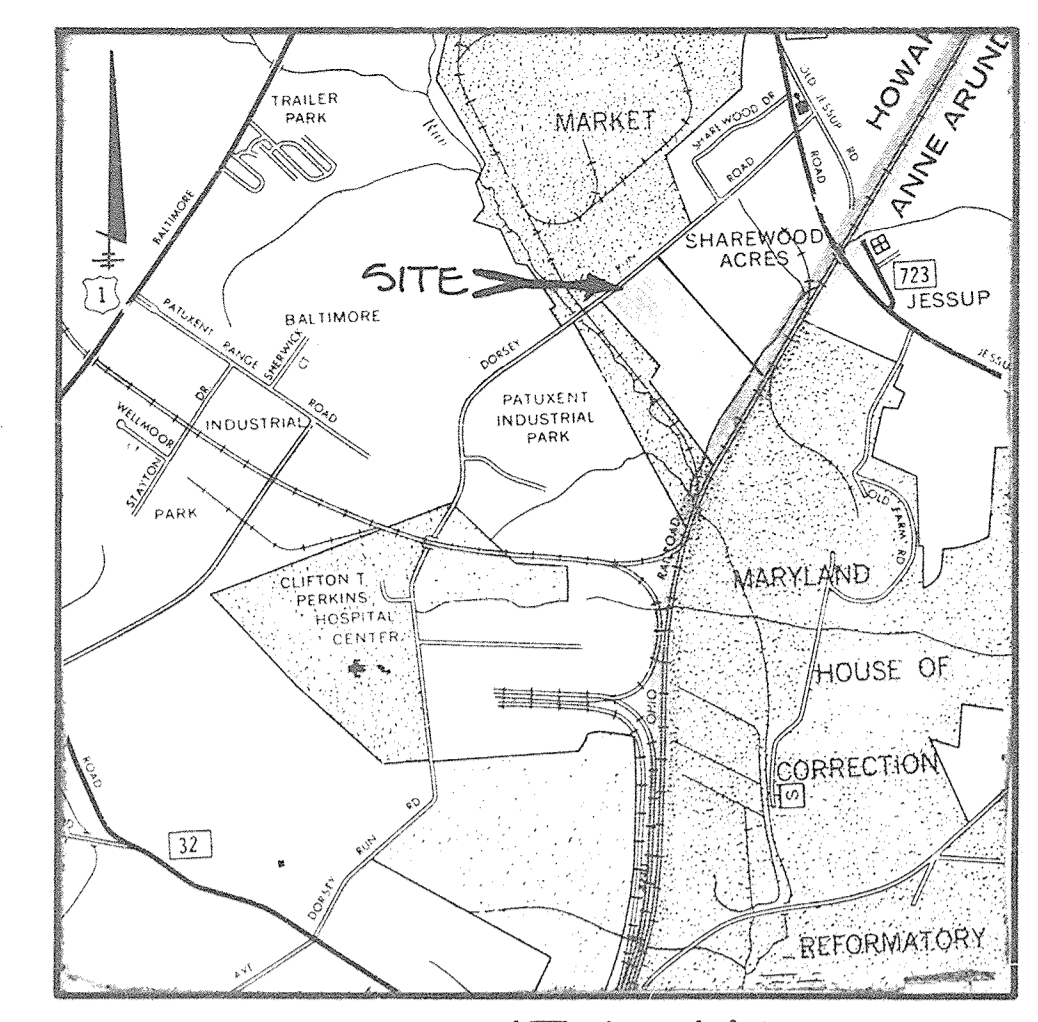
SITE DEVELOPMENT PLAN

DORSEY RUN PARK

BUILDING 1 AND 2

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

- NOTES:**
- THE PROPOSED 13,200 SF BUILDING ADDITION TO BUILDING 1 WILL BE USED AS WAREHOUSE SPACE FOR A MOVING BUSINESS. NO ADDITIONAL EMPLOYEES OR CUSTOMERS WILL RESULT WITH THIS ADDITION. THEREFORE NO ADDITIONAL PARKING WILL BE REQUIRED. ANY CHANGE IN USE WILL REQUIRE COMPLIANCE WITH THE PARKING REQUIREMENTS OF ZONING SECTION 13B.3.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT HOWARD COUNTY CONSTRUCTION DETAILS AND SPECIFICATIONS.
 - CONTRACTOR SHALL VERIFY EXISTING BUILDING DIMENSIONS PRIOR TO DESIGN AND CONSTRUCTION OF PROPOSED ADDITION. ANY CONNECTIONS TO EXISTING UTILITIES OR STRUCTURES SHALL BE TEST FITTED OR FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - STORMWATER MANAGEMENT FOR THIS PROJECT WILL BE PROVIDED BY A BIORETENTION FACILITY (B-R) FOR WATER QUALITY AND RECHARGE VOLUMES. CHANNEL PROTECTION VOLUME MANAGEMENT IS NOT REQUIRED BECAUSE THE 1 YEAR STORM RUNOFF IS LESS THAN 2 CFS. THE BIORETENTION FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED. THE BIORETENTION FACILITY SHALL BE CONSTRUCTED TO MEET OR EXCEED MARYLAND DEPARTMENT OF THE ENVIRONMENT AND HOWARD COUNTY SPECIFICATIONS.
 - ALL SEDIMENT CONTROLS SHALL MEET & BE IN ACCORDANCE WITH THE 1994 MARYLAND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL.
 - SURETY FOR PERMETER LANDSCAPING IN THE AMOUNT OF \$4,200.00'S SHADE TREES @ \$300, 10 EVERGREEN TREES @ \$150 SHALL BE PAID WITH THE DEVELOPER'S AGREEMENT.

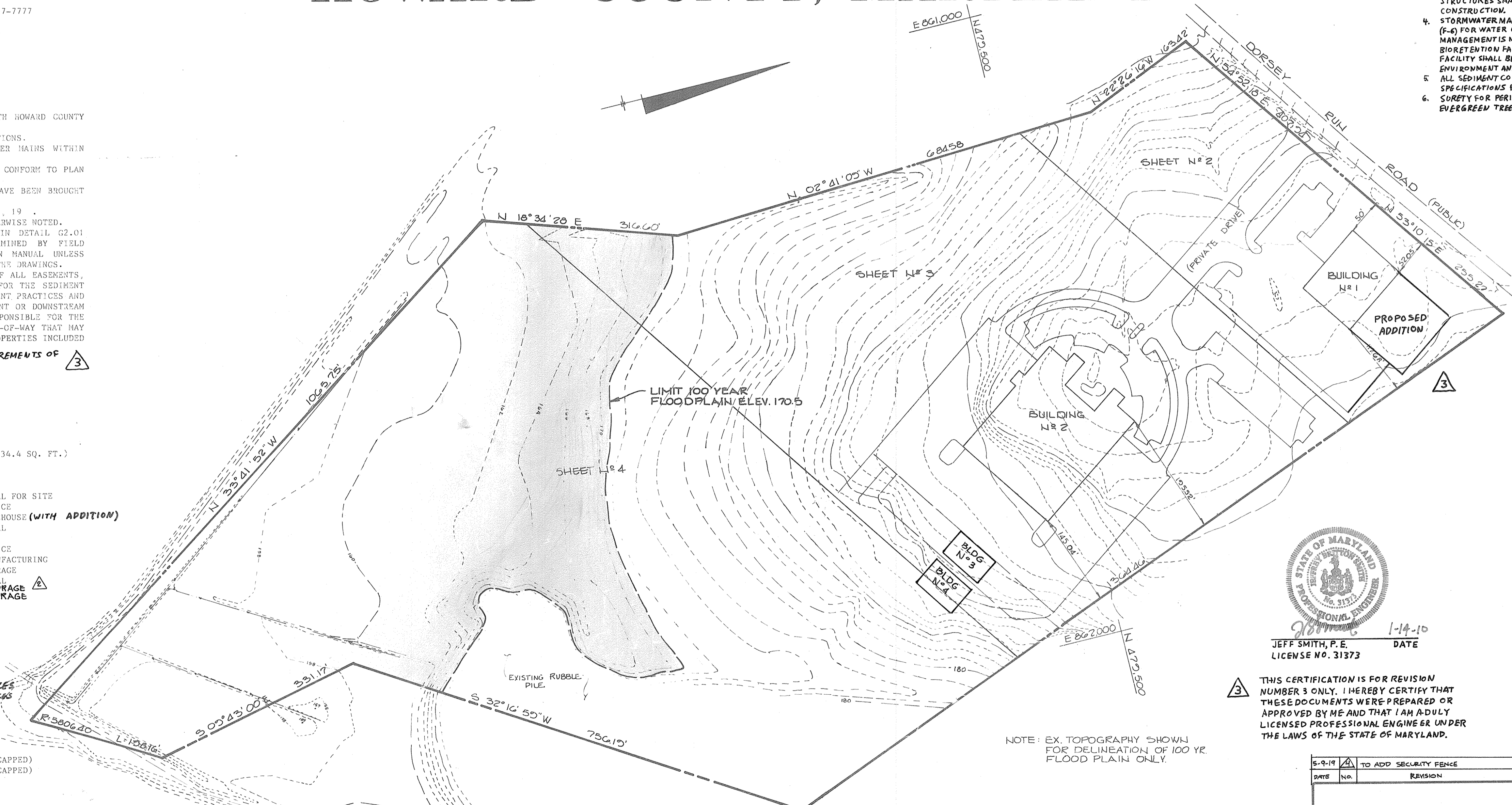
- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
ORP TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	605-0123
STATE HIGHWAY ADMINISTRATOR	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPG TAKEN FROM FIELD RUN SURVEY DATED 19
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- ALL EXTERIOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 13A. 3

SITE ANALYSIS

A. AREA OF PARCEL	32.549 AC. (1,417,834.4 SQ. FT.)
B. PRESENT ZONING	M-2
C. FLOOR SPACE	57,792 SQ. FT. TOTAL FOR SITE
BUILDING '1' (GEIPE)	2,450 SQ. FT. OFFICE
BUILDING '2' (DIVERSIFIED)	8,928 SQ. FT. OFFICE
BUILDING '3'	32,400 SQ. FT. MANUFACTURING
BUILDING '4'	4,464 SQ. FT. STORAGE
TOTAL	45,792 SQ. FT. TOTAL
BUILDING '1'	22,750 SQ. FT. WAREHOUSE (WITH ADDITION)
BUILDING '2'	25,200 SQ. FT. TOTAL
BUILDING '3'	8,928 SQ. FT. OFFICE
BUILDING '4'	32,400 SQ. FT. MANUFACTURING
BUILDING '5'	4,464 SQ. FT. STORAGE
TOTAL	45,792 SQ. FT. TOTAL
D. MAXIMUM NUMBER OF EMPLOYEES	8 OFFICE
BUILDING '1'	16 WAREHOUSE
BUILDING '2'	40 OFFICE
BUILDING '3'	40 MANUFACTURING
BUILDING '4'	0
E. PARKING PROVIDED	8 SPACES
BUILDING '1' (OFFICE)	8 SPACES
BUILDING '2' (WAREHOUSE)	12 SPACES
BUILDING '3' & '4'	0 SPACES
BUILDING '5'	0 SPACES
TOTAL	20 SPACES
F. PARKING PROVIDED	26 SPACES (2 HANDICAPPED)
BUILDING '1'	80 SPACES (4 HANDICAPPED)
BUILDING '2'	80 SPACES
G. OPEN SPACE REQUIRED	6.5 AC. (20%)
H. OPEN SPACE PROVIDED	27.24 AC. (84%)
I. BUILDING COVERAGE	62,064 SQ. FT. (4.4%)
J. LANDSCAPED ISLANDS REQUIRED	1 ISLAND
BUILDING 1 (1 ISLAND PER 20 PARKING SPACES)	1 ISLAND
K. LANDSCAPED ISLANDS PROVIDED	1 ISLAND

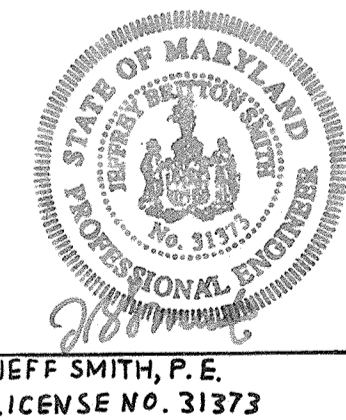


- REF: BOA CASE NO. 18-024V APPROVED MARCH 25, 2019**
- REDUCE 50' MINIMUM STRUCTURE SETBACK FROM A PUBLIC STREET UP TO ZERO (0).
 - REDUCE 30' MINIMUM STRUCTURE SETBACK FOR FENCES ADJOINING PARKING SPACES TO 10' IN AN M-2 ZONING DISTRICT.

PLAN
SCALE: 1"=100'

ADDRESS CHART	
BLDG NUMBER	STREET ADDRESS
1	8005 DORSEY RUN ROAD
2	8015 DORSEY RUN ROAD

SUBDIVISION NAME DORSEY RUN PARK		SECT./AREA	BLDG/PARCEL # 5
PLAT # OR L/F	BLK #	TAX/ZONE MAP	ELEC. DIST.
1000/155	3	48	3 TH
WATER CODE		SEWER CODE	CENSUS TR
B02		3020000	6004



THIS CERTIFICATION IS FOR REVISION NUMBER 3 ONLY. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

5-9-19	TO ADD SECURITY FENCE	
DATE	NO.	REVISION

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 9-12-86

10.20.09 **ADD BUILDING ADDITION & REVISE PARKING AREA**
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John B. [Signature] 12-17-86
COUNTY HEALTH OFFICER # [] DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Donald L. [Signature] 12-22-86
PLANNING DIRECTOR # [] DATE
John [Signature] 12-22-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

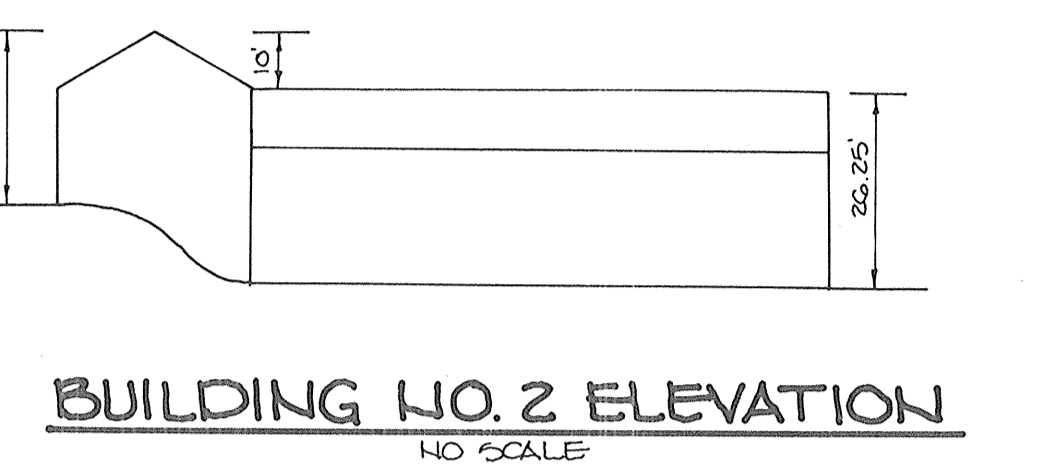
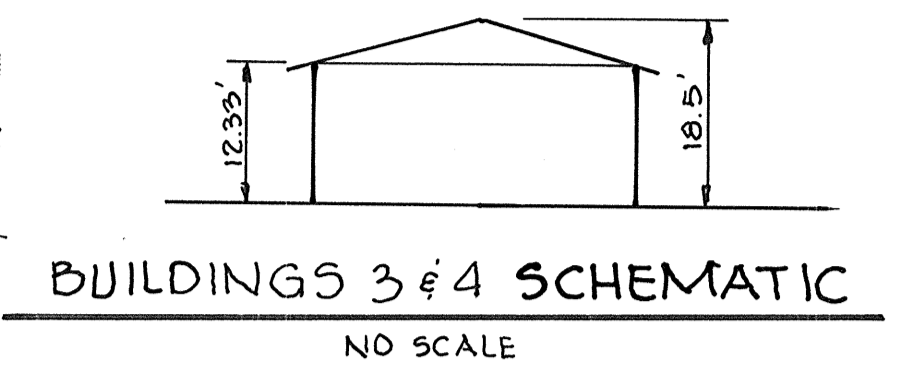
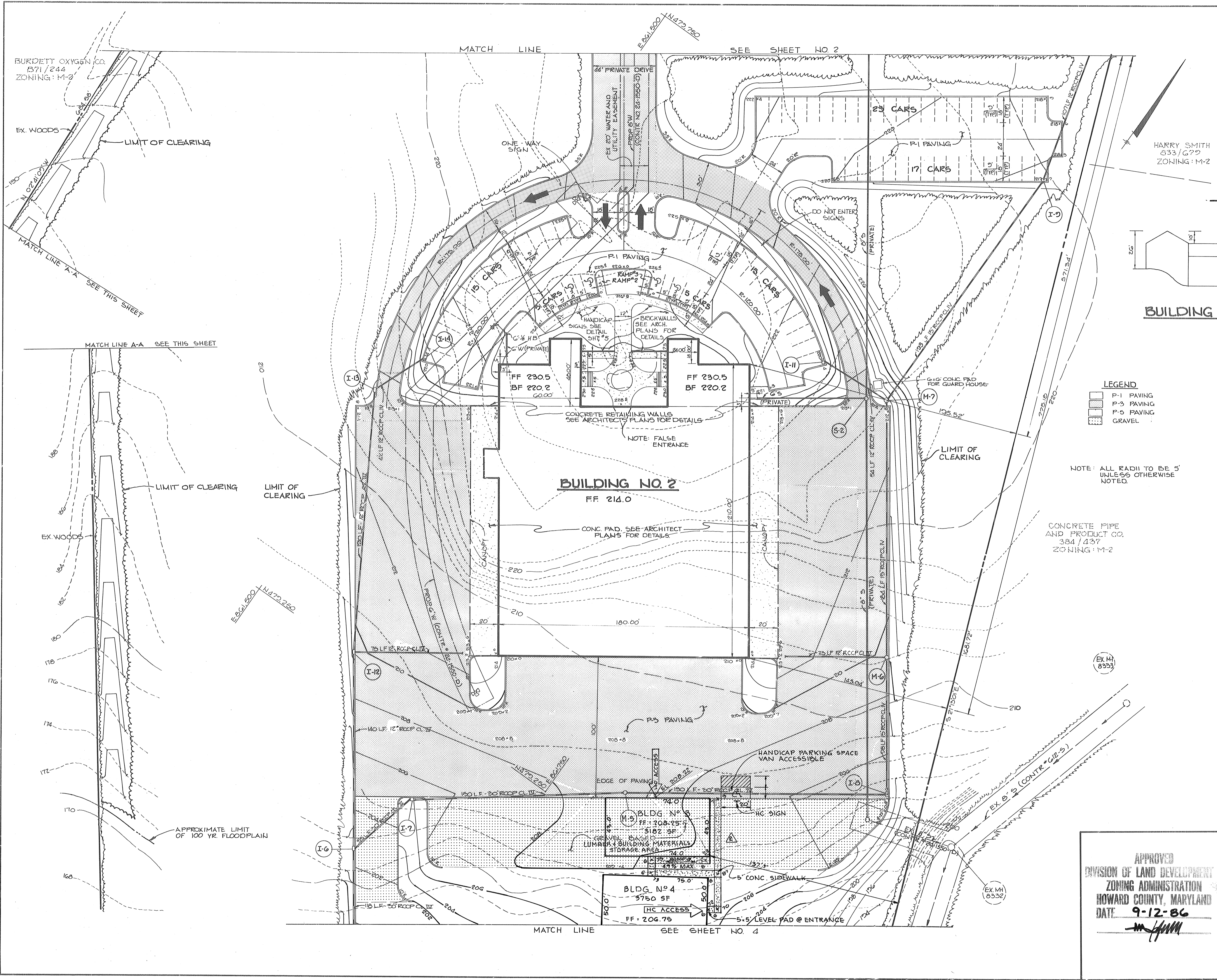
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. [Signature] 12/18/86
DIRECTOR # [] DATE
William E. [Signature] 12-18-86
CHIEF, BUREAU OF ENGINEERING # [] DATE

2-2-03 **ADDED BUILDINGS NO 3 & NO 4**
2-9-01 **REV. SHEET INDEX & DWG. NO.**
DATE NO. REVISION
OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

PROJECT: **DORSEY RUN PARK**
AREA TAX MAP NO. 48 PARCEL 5
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
L. 1000 F.155

TITLE SHEET
THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

10-15-86	DATE
DESIGNED BY: J.K.B.	
DRAWN BY: F.D.M.	
PROJECT NO: 25003	
DATE: 5-10-86	
SCALE: AS SHOWN	
DRAWING NO. 1 OF 10	



- LEGEND**
- P-1 PAVING
 - ▨ P-3 PAVING
 - ▩ P-5 PAVING
 - ▤ GRAVEL

NOTE: ALL RADII TO BE 5' UNLESS OTHERWISE NOTED.

CONCRETE PIPE AND PRODUCT CO. 384 / 437 ZONING: M-2

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John A. ... 12-19-86
 HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas E. ... 12-23-86
 PLANNING DIRECTOR DATE

John W. ... 12-22-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

James M. ... 12/18/86
 DIRECTOR DATE

William B. ... 12-18-86
 CHIEF, BUREAU OF ENGINEERING DATE

9-2-03 [A] ADDED BUILDINGS NO. 3 & NO. 4

2-9-01 [A] REV. DWG. NO. DATE NO. REVISION

OWNER/DEVELOPER
 CRYSTAL HILL INVESTMENT
 10005 OLD COLUMBIA ROAD
 COLUMBIA, MARYLAND 21046

PROJECT: **DORSEY RUN PARK**

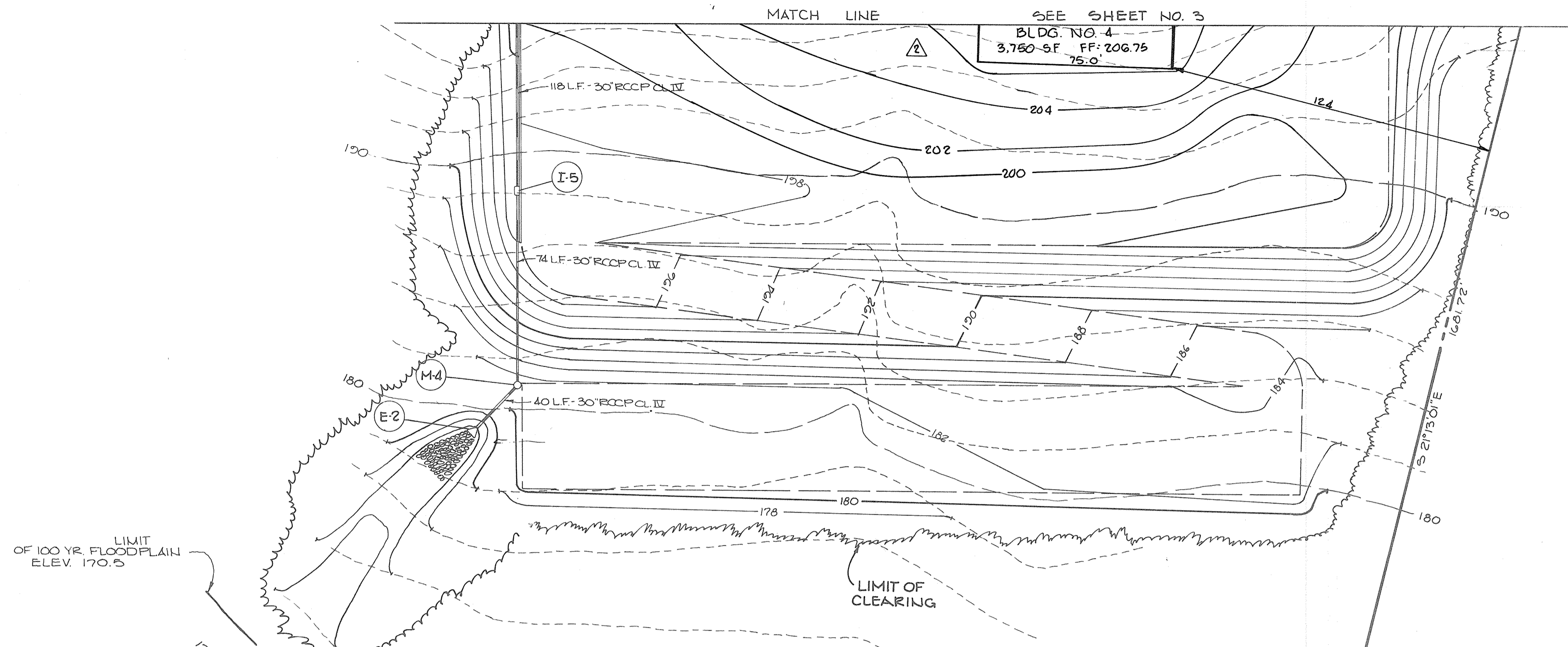
AREA TAX MAP NO. 48 PARCEL
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 10000 F.155

TITLE: **SITE DEVELOPMENT PLAN**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 9-12-86
M. ...

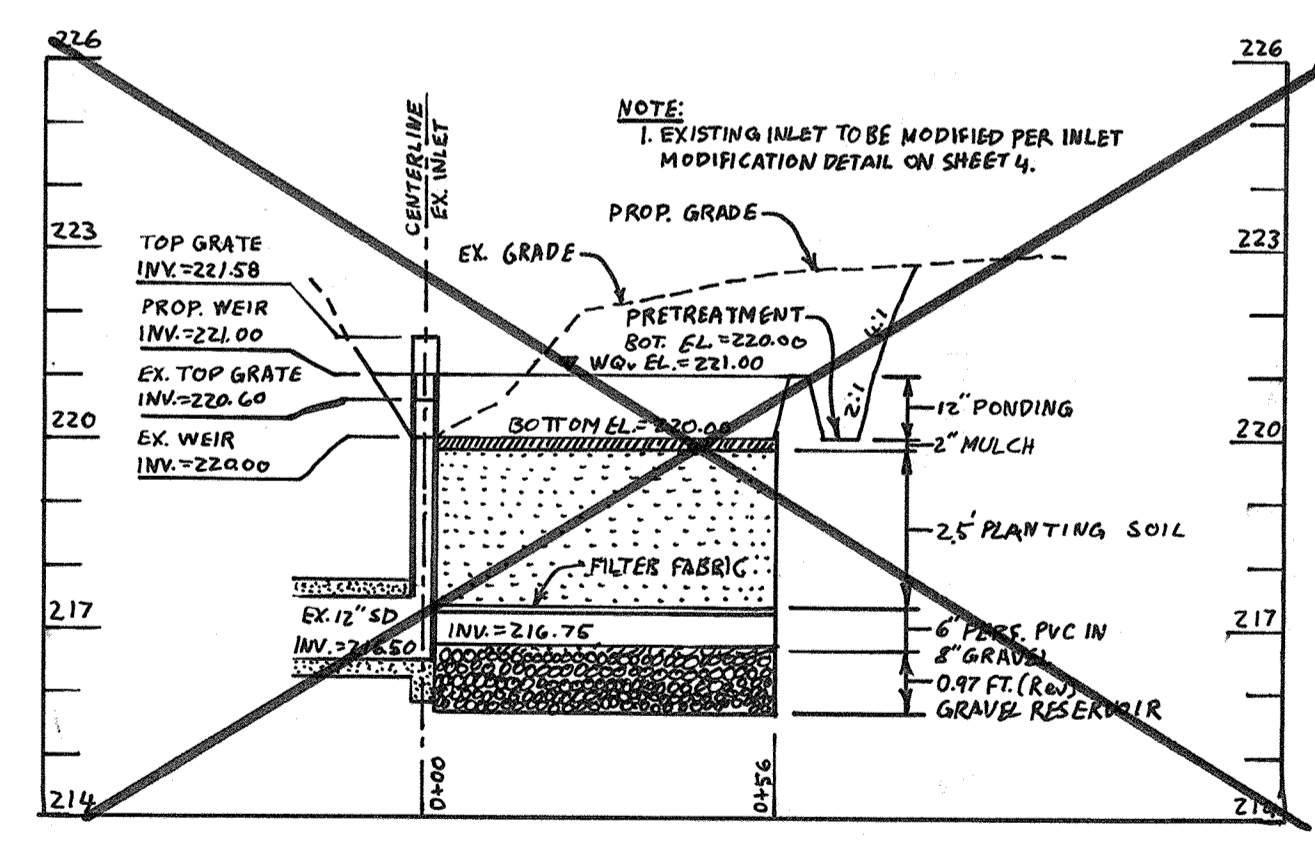
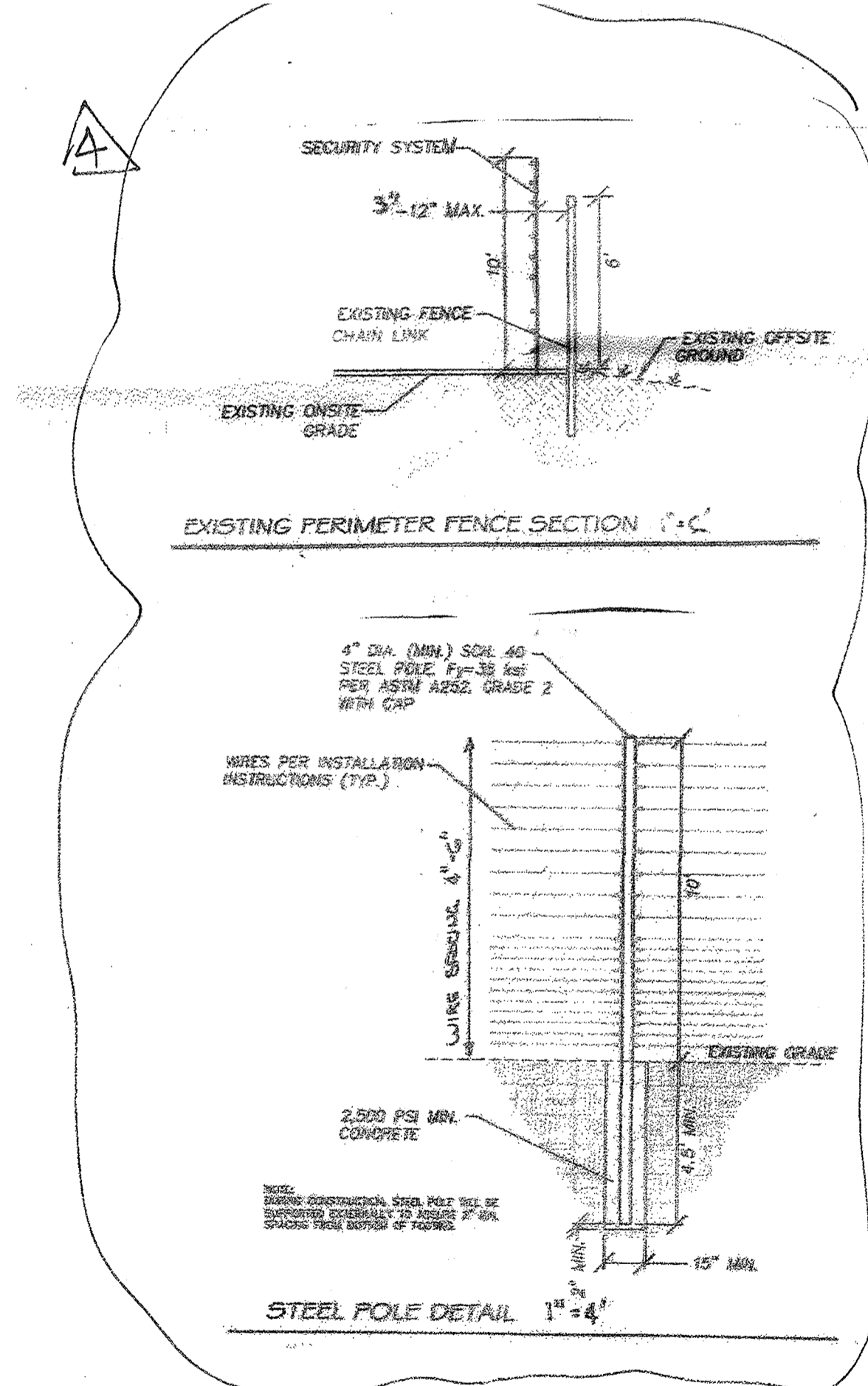
12-18-86 DATE	DESIGNED BY: J.K.B.
	DRAWN BY: F.D.M.
PROJECT NO: 25903	DATE: 5-19-86
SCALE: 1"=30'	DRAWING NO. 3 OF 10



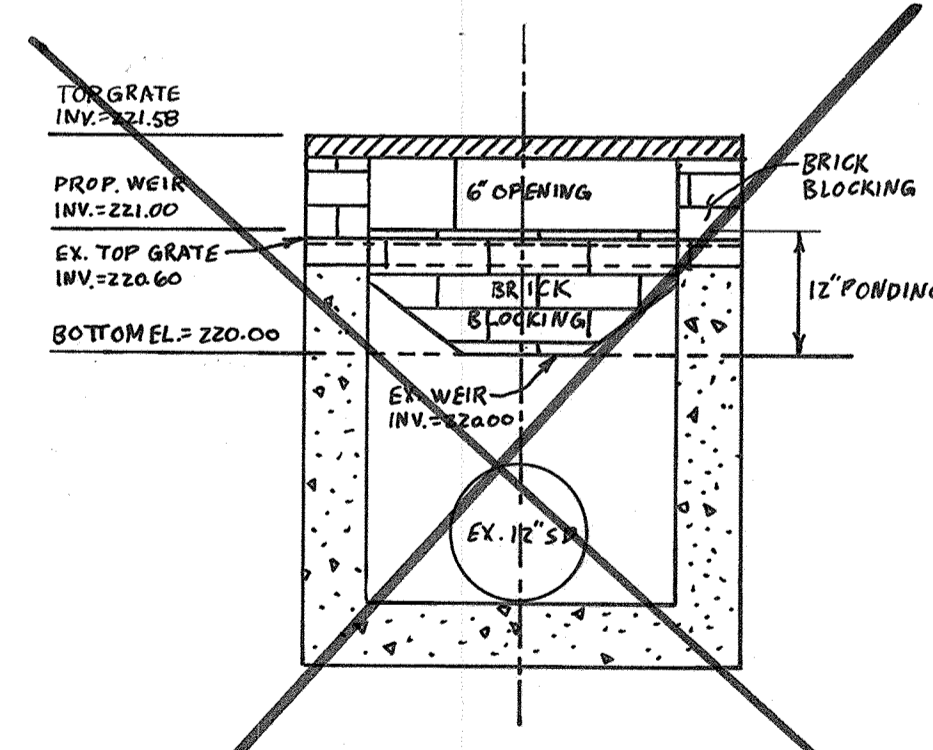
CONCRETE PIPE
AND PRODUCT CO.
384/A37
ZONING: M-2

LIMIT OF 100 YR. FLOODPLAIN
ELEV. 170.5

LIMIT OF CLEARING



BIORETENTION PROFILE
SCALE: HORIZ.: 1"=30'
VERT.: 1"=3'



INLET MODIFICATION DETAIL
NOT TO SCALE

10-20-09 **ADD BUILDING ADDITION & REVISE PARKING AREA**

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

Joyce Boyd 12-19-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

James L. Harris 12-22-86
PLANNING DIRECTOR DATE

John M. Mueggler 12-22-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James W. Allen 12/10/86
DIRECTOR DATE

William E. Reilly 12-18-86
CHIEF, BUREAU OF ENGINEERING DATE

9-2-03 **ADDED BUILDINGS NO. 3 & NO. 4**

2-9-01 **REV. DWG. NO.**

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENT
1005 OLD COLUMBIA RD
COLUMBIA, MARYLAND 21046

PROJECT: **DORSEY RUN PARK**

AREA TAX MAP NO 48 PARCEL 5
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND L1000 F155

TITLE: **SITE DEVELOPMENT PLAN**

THE RIEMER GROUP, INC.

The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (801) 481-2890

10-15-86
DATE

DESIGNED BY: D.A.M.

DRAWN BY: F.D.M.

PROJECT NO: 26903

DATE: 5-10-86

SCALE: 1"=30'

DRAWING NO. 4 OF 10

5-9-19 **TO ADD SECURITY FENCE**

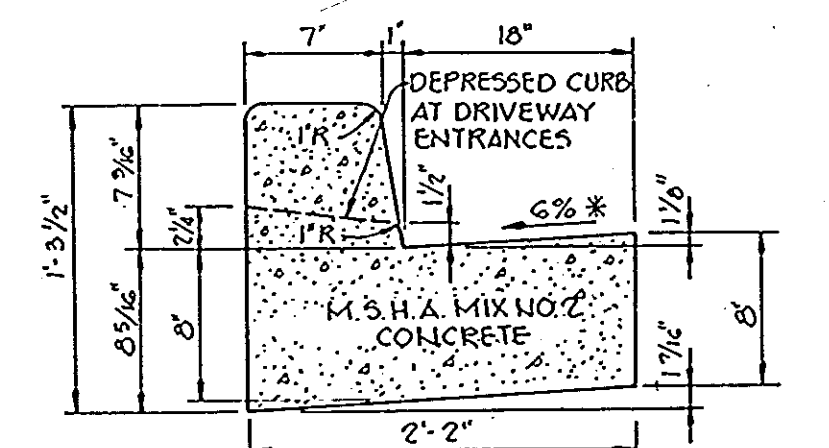
DATE No. REVISION

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 9-12-86
M. H. Mueggler



Arthur E. Mueggler
ARTHUR E. MUEGGLER #8701

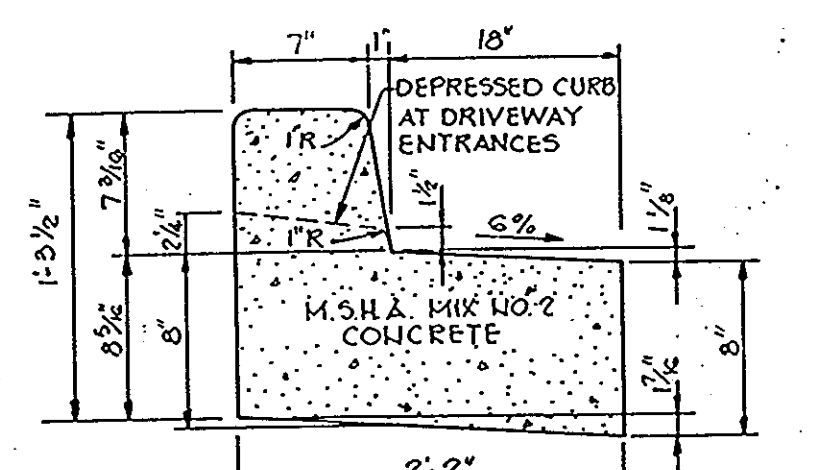
SDP-86-255



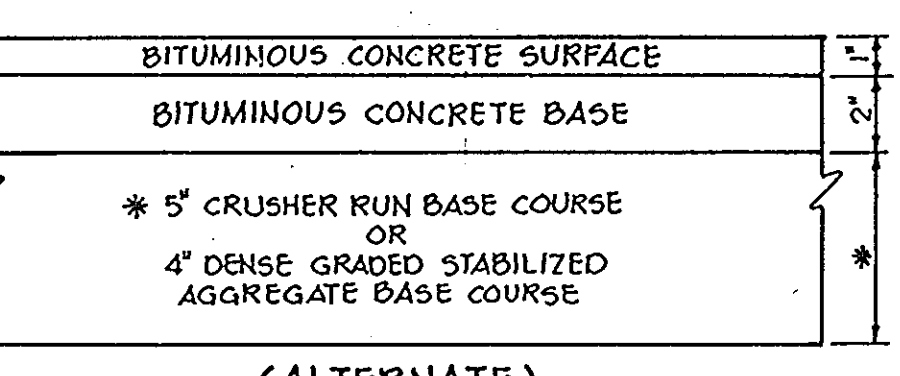
HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)

* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

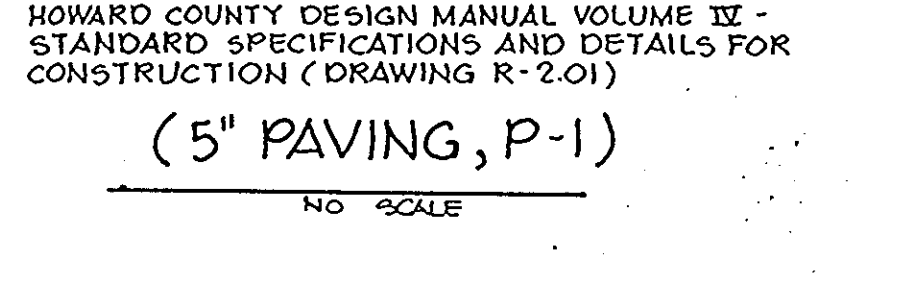
STANDARD 7" COMBINATION CURB AND GUTTER
No Scale



REVERSE 7" COMBINATION CURB AND GUTTER
No Scale

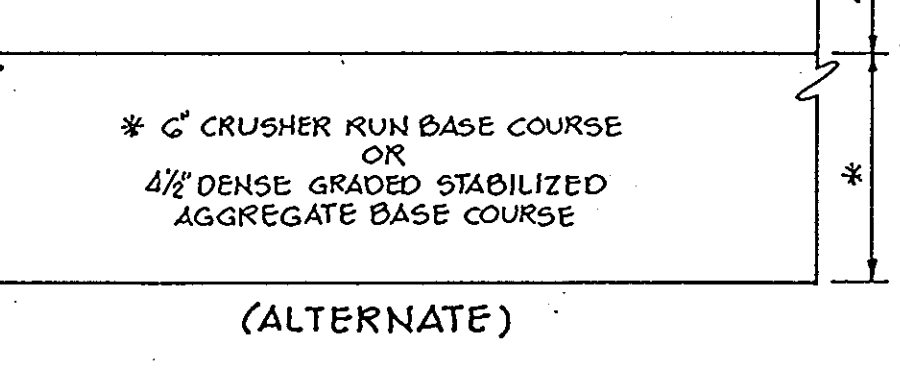


(ALTERNATE)

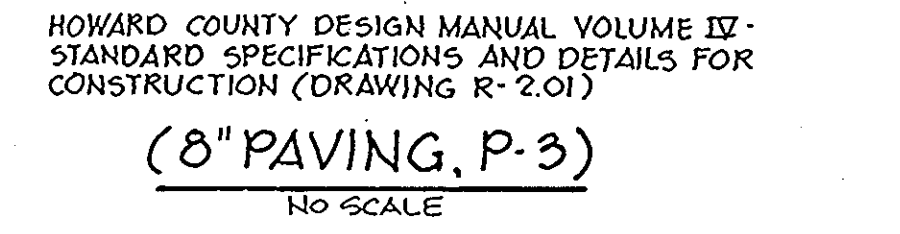


HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

(5" PAVING, P-1)
NO SCALE



(ALTERNATE)



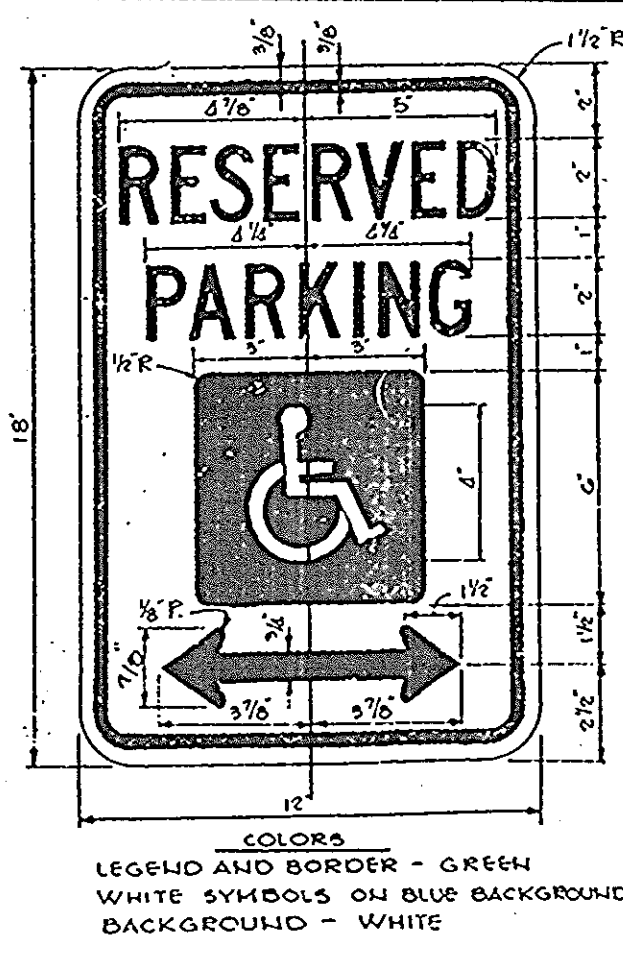
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(8" PAVING, P-3)
NO SCALE

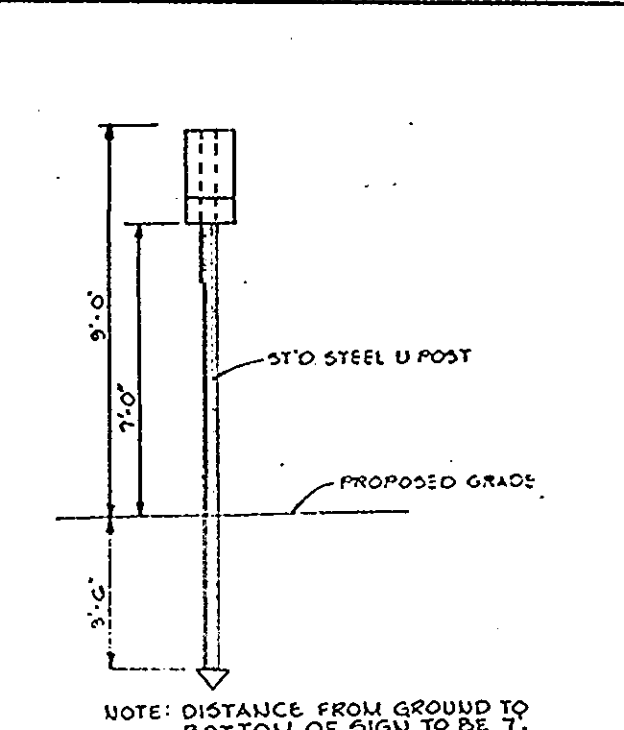
UNLESS OTHERWISE NOTED

4" WIDE
M.S.H.A. MIX NO. 2 CONCRETE

SIDEWALK DETAIL
No Scale

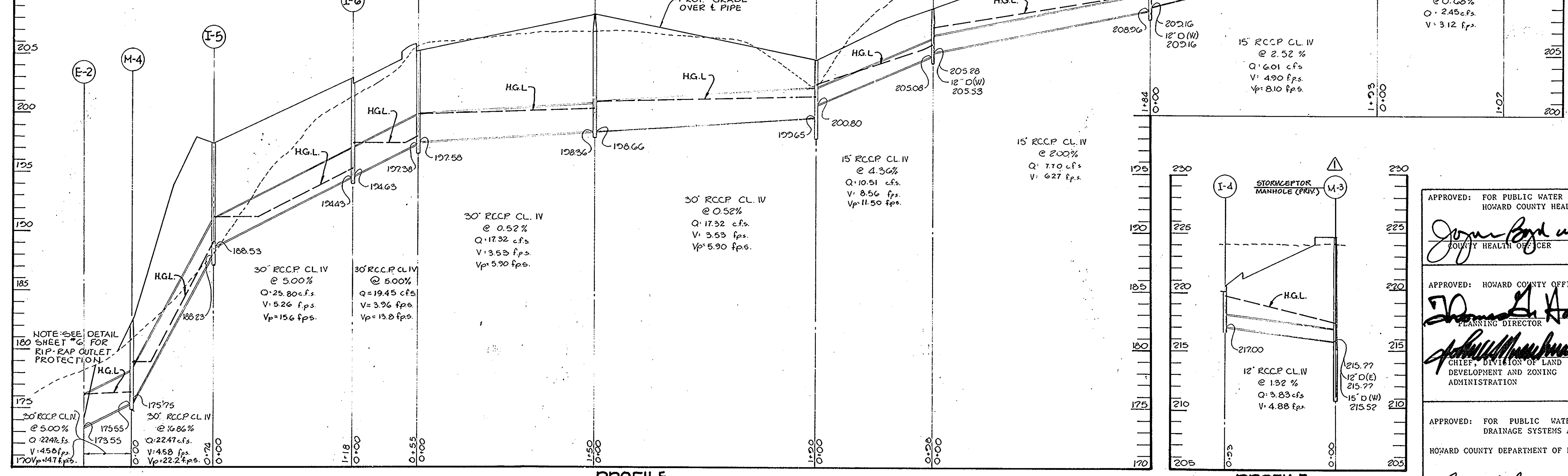


LEGEND AND BORDER - GREEN
WHITE SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE

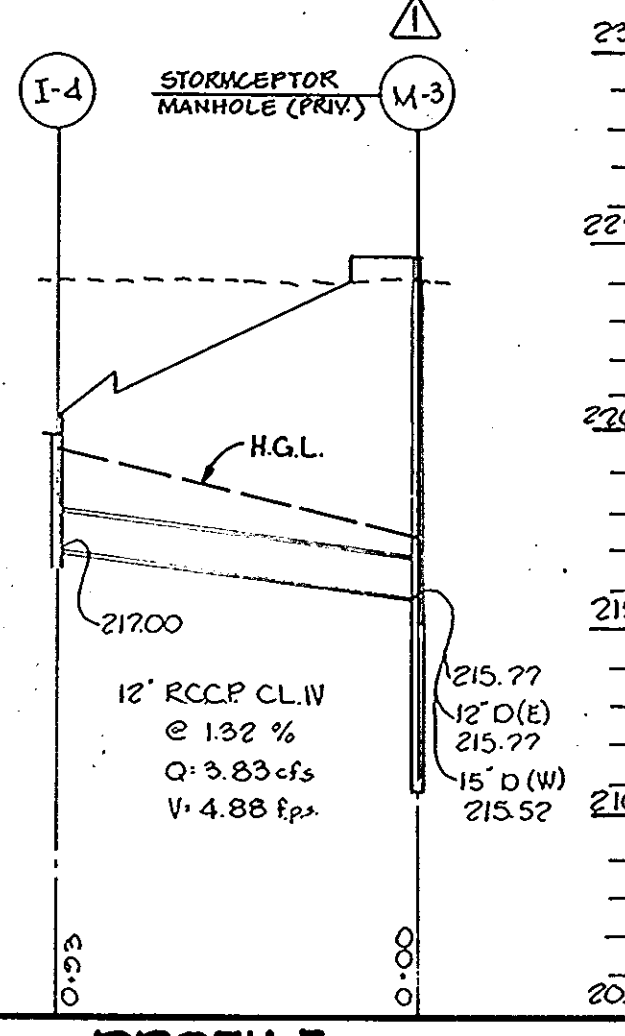


TO BE MOUNTED BELOW RESERVED PARKING SIGN ON THE STD STEEL U POST

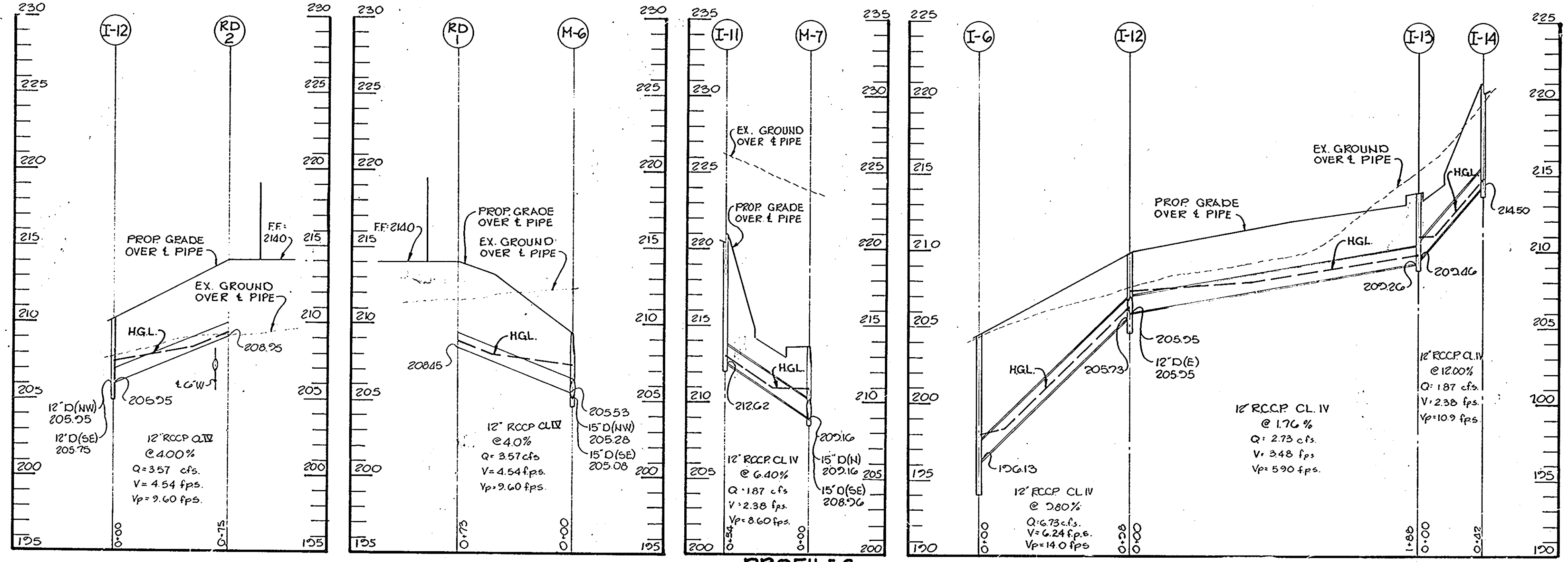
HANDICAP SIGN
NO SCALE



PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=6'



PROFILES
SCALE: HOR: 1"=50'
VERT: 1"=5'

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

James Boyd 12-19-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

James L. Harris 12-22-86
PLANNING DIRECTOR DATE

Arthur E. Muegge 12-22-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Lane 12-18-86
DIRECTOR DATE

William E. Reilly 12-18-86
CHIEF, BUREAU OF ENGINEERING DATE

2-9-01 MODIFIED I-10 & M-3 TO BE STORMCEPTORS

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

PROJECT: **DORSEY RUN PARK**

AREA TAX MAP NO. 48 PARCEL
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
L 1000 F 155

TITLE: **STORM DRAIN PROFILES AND DETAILS**

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Heath Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

DATE: 11-15-86
DESIGNED BY: D.A.M.
DRAWN BY: F.D.M.
PROJECT NO: 25903
DATE: 5-19-86
SCALE: AS SHOWN
DRAWING NO. 5 OF 10

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 9-12-86
Arthur E. Muegge

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL AND MAINTAIN SEDIMENT CONTROL STRUCTURES.
- COMPLETE FINE GRADING AND INSTALL PAVING AND CURB AND GUTTER.
- COMPLETE BUILDING CONSTRUCTION.
- STABILIZE ALL DISTURBED AREA ACCORDING TO PERMANENT SEEDING NOTES.
- UPON PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROLS.

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C. ELEV.	REMARKS
1-1	A-5	See Plan	212.14	211.94	215.98	Ro. Co. Std.
1-2	A-5 w/defl.	See Plan	213.34	213.24	216.98	SD-4.01 & SD-4.83
1-3	*X'Inlet	See Plan		217.98	+222.5	Ro. Co. Std.
1-4	*S' Comb	See Plan		17.00	220.58	Ro. Co. Std.
1-5	A-5	See Plan	188.53	188.23	197.38	Ro. Co. Std.
1-6	A-5 w/defl.	See Plan	(SE)196.13	194.43	205.33	Ro. Co. Std.
1-7	A-10	See Plan	(SH)194.63	197.58	205.78	SD-4.01 & SD-4.83
1-8	*S' Comb	See Plan	199.65	200.80	205.18	Ro. Co. Std.
1-9	*S' Comb	See Plan	214.02	214.27	218.28	Ro. Co. Std.
1-10	Stormceptor Inlet	See Plan		215.00	222.10	See Detail Sheet
1-11	*S' Comb	See Plan		212.62	220.98	Ro. Co. Std.
1-12	A-10 w/defl.	See Plan	(SH)205.95	205.75	209.90	Ro. Co. Std.

STRUCTURE SCHEDULE (CONTINUED)

NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C. ELEV.	REMARKS
1-13	A-5	See Plan	207.55	209.25	213.68	Ro. Co. Std.
1-14	*S' Comb	See Plan		214.50	220.98	SD-4.01
M-1	St'd Manhole	See Plan	194.25	194.15	*203.50	Ro. Co. Std.
M-2	Manhole	See Plan	195.49	195.69	*199.70	Ro. Co. Std.
M-3	Stormceptor	See Plan	(NH)215.77	215.52	*224.60	See Detail Sheet
M-4	St'd Manhole	See Plan	(SH)215.77	175.55	*180.80	Ro. Co. Std.
M-5	Manhole	See Plan		198.66	*208.40	Ro. Co. Std.
M-6	St'd Manhole	See Plan	(NS)205.53	205.08	*209.00	Ro. Co. Std.
M-7	St'd Manhole	See Plan	(NU)205.28	208.96	*213.50	Ro. Co. Std.
E-1	18" Conc. End Sec.	See Plan	(E) 209.16		193.19	Ro. Co. Std.
E-2	30" Conc. End Sec.	See Plan	(NH)209.16		173.55	Ro. Co. Std.

10-20-86 **ADD BUILDING ADDITION & REVISE PARKING AREA**

BY THE DEVELOPER:
 "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."

Steven M. Murray
 DEVELOPER
 12-10-86
 DATE

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."

Arthur E. Muegge
 ENGINEER
 10-15-86
 DATE

REVIEWED FOR **HOWARD** S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James M. Adams
 U.S. SOIL CONSERVATION SERVICE
 12-15-86
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Fisher
 HOWARD S.C.D.
 12-15-86
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joyce Byrd
 COUNTY HEALTH OFFICER
 12-17-86
 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
James B. Smith
 PLANNING DIRECTOR
 12-22-86
 DATE
Arthur E. Muegge
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 12-22-86
 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James B. Smith
 DIRECTOR
 12-18-86
 DATE

James B. Smith
 CHIEF, BUREAU OF ENGINEERING
 12-18-86
 DATE

2-2-83 **ADDED BUILDINGS N° 3 & N° 4**
 2-09-01 **REVISED STRUCTURE SCHEDULE**

DATE	NO.	REVISION

OWNER/DEVELOPER
 CRYSTAL HILL INVESTMENTS
 10005 OLD COLUMBIA ROAD
 COLUMBIA, MARYLAND 21046

PROJECT: **DORSEY RUN PARK**
 AREA TAX MAP NO. 48 PARCEL 5
 GTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 L.902 F.81 L.1000 F.155
 TITLE: **DRAINAGE AREA AND SEDIMENT CONTROL PLAN**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2800

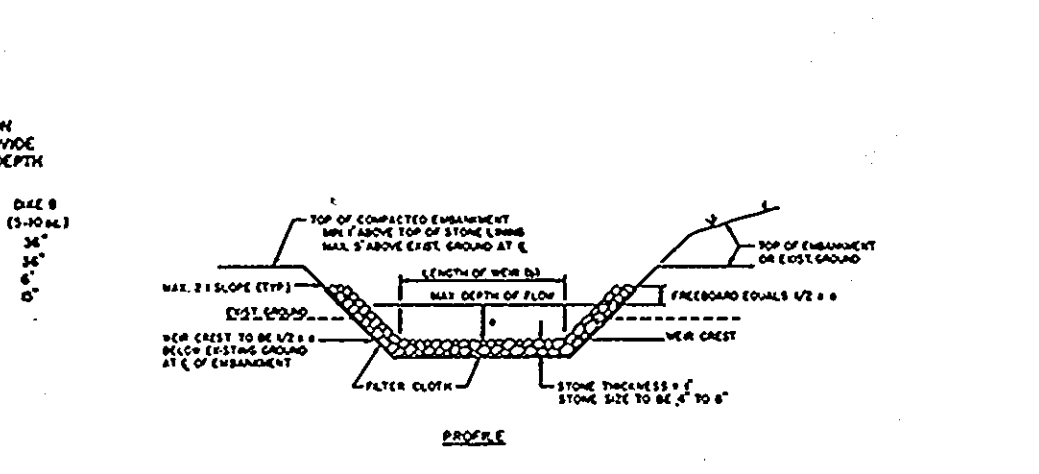
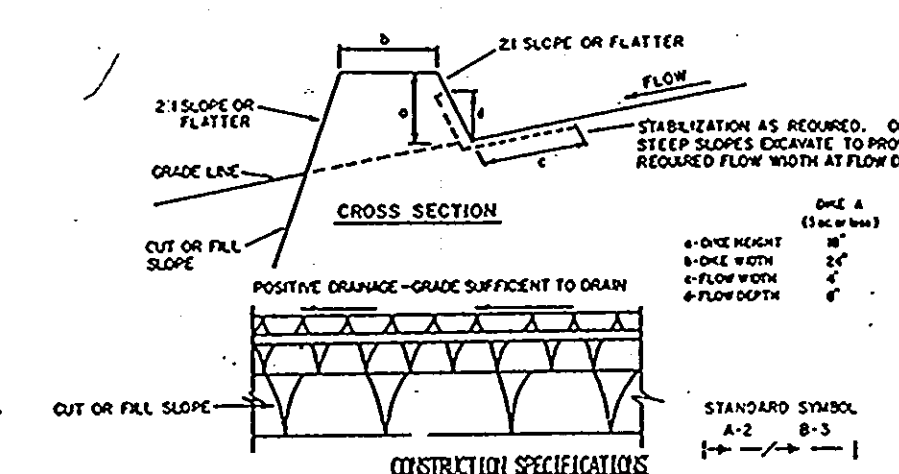
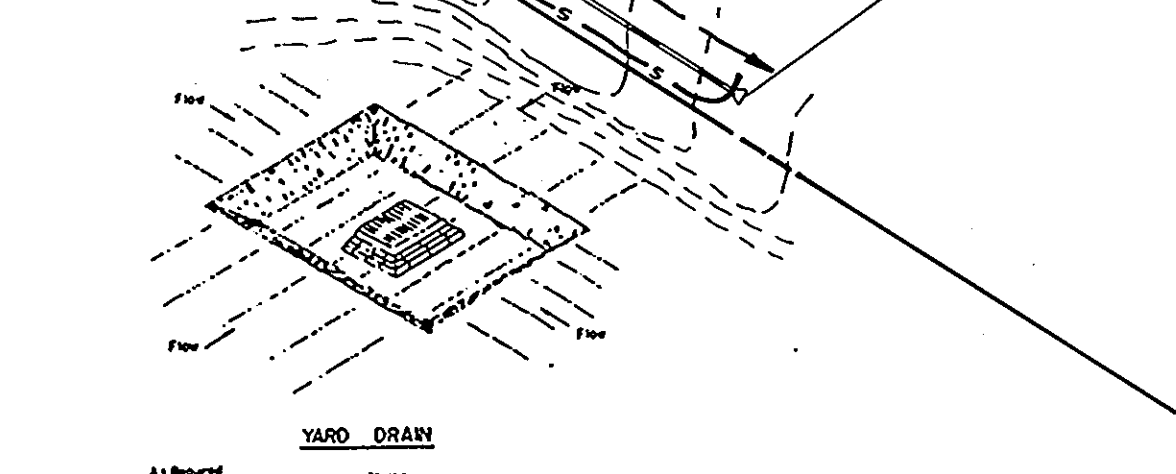
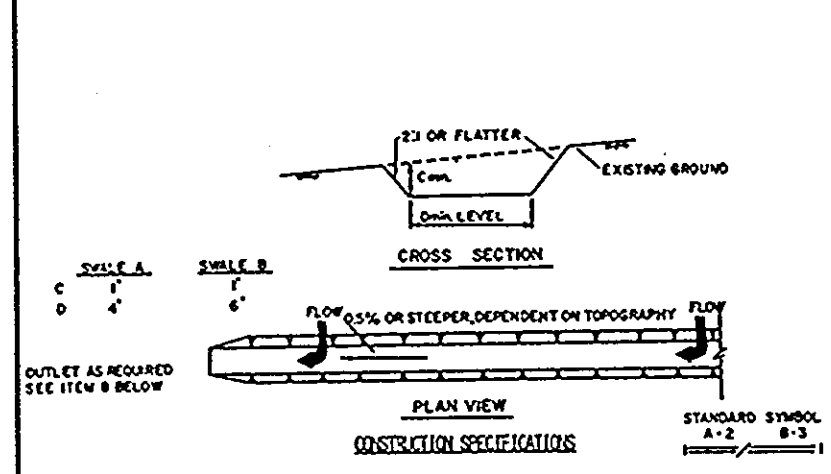
10-15-86
 DATE
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 9-12-86
 DESIGNED BY: J.K.B.
 DRAWN BY: F.D.M.
 PROJECT NO: 25903
 DATE: 5-19-86
 SCALE: 1"=50'
 DRAWING NO. 7 OF 10

NOTE: THIS PLAN NOT TO BE USED FOR FINAL GRADING OR EARTH WORK QUANTITIES. USE SITE DEVELOPMENT PLANS.

TRAP #2
 RIP RAP OUTLET PROTECTION
 DA - 7.8 AC
 REQ. VOL. - 14,040 C.F.
 VOL. PROV. - 15,000 C.F.
 BOTTOM DIM. - 50' x 40'
 CREST ELEV. - 172.0
 BOTTOM ELEV. - 166.0
 WEIR LENGTH - 16.0'

INLET TRAP #3
 DA - 0.82 AC
 VOL. REQ. - 1476 C.F.
 VOL. PROV. - 1500 C.F.
 BOT. ELEV. - 218.0
 BOT. DIM. - 10' x 50'
 CREST ELEV. - 221.0

RIP RAP OUTLET TRAP #1
 DA - 0.28 AC
 VOL. REQ. - 1764 C.F.
 VOL. PROV. - 2028 C.F.
 CREST ELEV. - 215.0
 BOTTOM ELEV. - 212.0
 BOTTOM DIM. - 20' x 20'
 CREST WIDTH - 4'

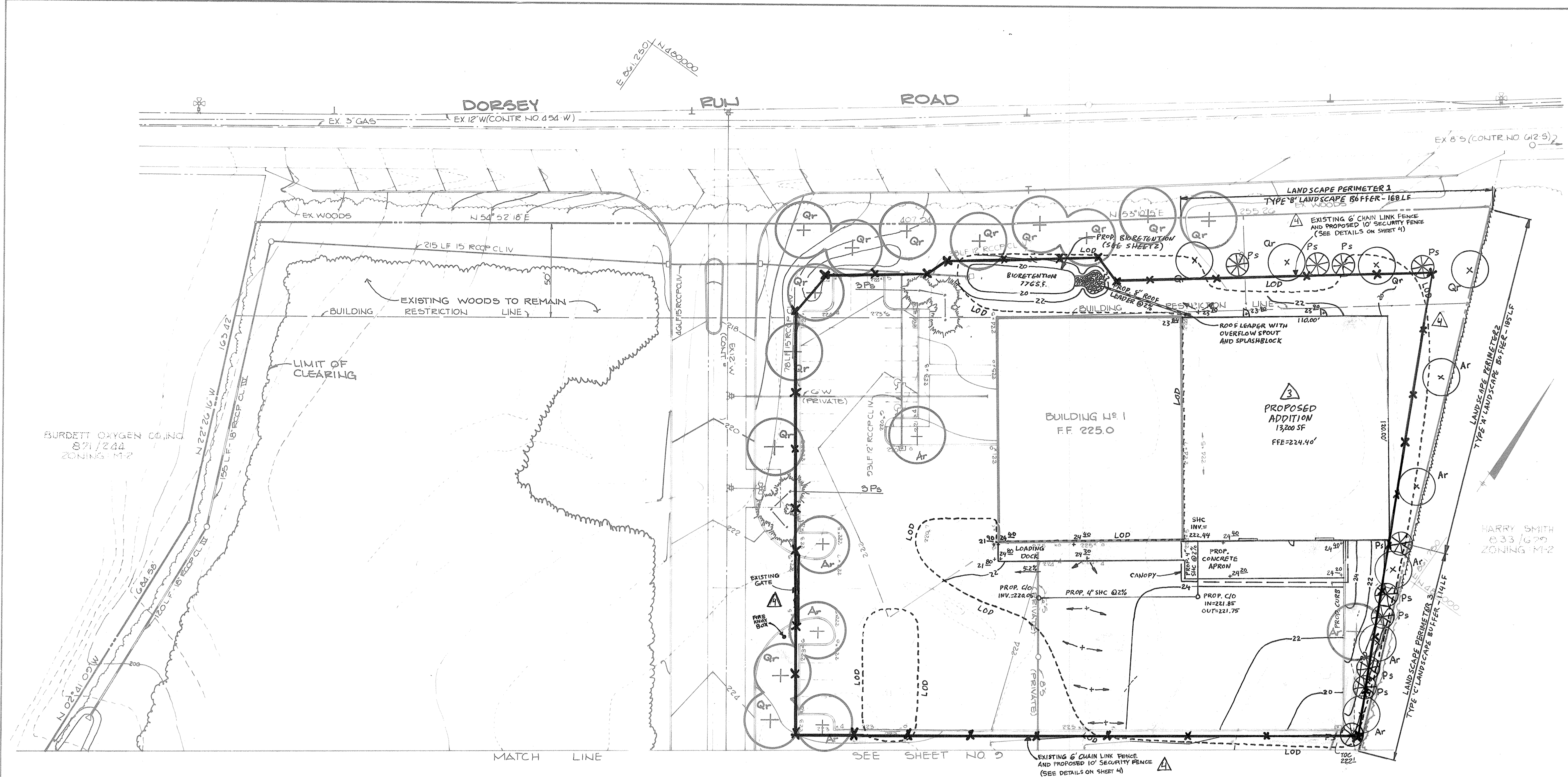


- All temporary swales shall have uninterrupted positive grade to an outlet.
 - Diversed runoff from a disturbed area shall be conveyed to a sediment trapping device.
 - Diversed runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at non-erosive velocity.
 - All trees, brush, stumps, obstructions, and other questionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be excavated on a slope of 1:1, and cross section as required to meet the criteria specified herein and be free of bank protrusions or other irregularities which will impede runoff.
 - Fills shall be compacted by earth moving equipment.
 - All earth removed and not needed on construction shall be placed so that it will not interfere with the functioning of the swale.
 - Stabilization shall be as per the table below:
- | TYPE OF PRESENT SOIL | ORIG. SOIL | DESIGNATED | REQUIREMENTS |
|----------------------|------------|-----------------|---|
| 1 | 0.5-1.0% | 3.1-5.0% (10:1) | SEED AND STRAW PILE |
| 2 | 3.1-5.0% | 5.1-8.0% | SEED AND STRAW PILE OR EXCELSTON |
| 3 | 5.1-8.0% | 8.1-20% | SEED WITH JUTE OR EXCELSTON AND LINED RIP-RAP 4'-8" |
| 4 | 8.1-20% | 21% or greater | LINED RIP-RAP 4'-8" RECYCLED CONCRETE EQUIVALENT |
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

- Sediment shall be removed and the 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 volume of sediment storage shall be 1000 cubic feet per acre of contributory drainage.
 - 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 shall be minimized.
 - The structure trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
 - All cut slopes shall be 1:1 or flatter.
- Maximum Drainage Area: 3 Acres

- FLOW DRAINAGE STABILIZATION**
- | TYPE OF SOIL | DESIGNATED | REQUIREMENTS |
|--------------|------------|--|
| 1 | 0.5-1.0% | SEED AND STRAW PILE |
| 2 | 3.1-5.0% | SEED AND STRAW PILE OR EXCELSTON |
| 3 | 5.1-8.0% | SEED WITH JUTE OR SOO; LINED RIP-RAP 4'-8" |
| 4 | 8.1-20% | LINED RIP-RAP 4'-8" ENGINEERING DESIGN |
- Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
 - Rip-rap to be 3/4 inch in a layer at least 8 inches thickness and pressed into the soil.
 - Construction equipment can be substituted for any of the above materials.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an 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.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Top of earth dikes shall be covered to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be: (a) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW PILE OR STRAW PILE; IF NOT IN SEEDING SEASON; (b) FLOW CHANNELS AS PER THE COURT BOOK.



PLANT LIST

SYMBOL	NAME	SIZE	QUANTITY
Qr	QUERCUS RUBRA RED OAK	2 1/2" - 3" CAL., B&B	13
Ar	ACER RUBRUM RED MAPLE		24
Pb	PINUS SYLVESTRIS SCOTCH PINE	6'-8' HT, B&B	8
Jc	JUNIPERUS COMMUNIS "EFFUSA" FLAT TOP JUNIPER	15'-24", B&B	15
Ps	PINUS STROBUS EASTERN WHITE PINE	5'-6" HT, B&B	10
3 Qr	QUERCUS RUBRA RED OAK	2-1/2" - 3" CAL., BFB	4
Ar	ACER RUBRUM RED MAPLE	2-1/2" - 3" CAL., BFB	5

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

John G. ... 10-15-85
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Donald L. ... 12-22-86
PLANNING DIRECTOR DATE

... 12-22-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

... 12-18-86
DIRECTOR DATE

... 12-18-86
CHIEF, BUREAU OF ENGINEERING DATE

10.20.09 **ADD BUILDING ADDITION & REVISE PARKING AREA**

2.9.01 **MODIFIED GRADING & REV. DWG. NO.**

OWNER/DEVELOPER

CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

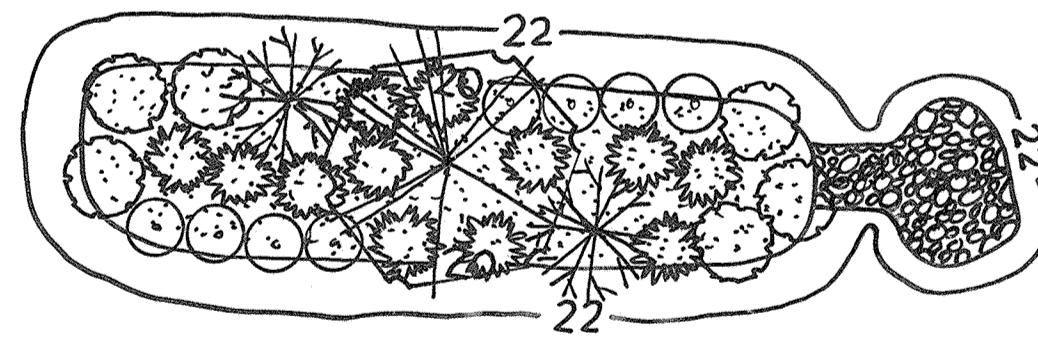
PROJECT

DORSEY RUN PARK

AREA TAX MAP NO. 46 PARCEL 5
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

PLANTING PLAN



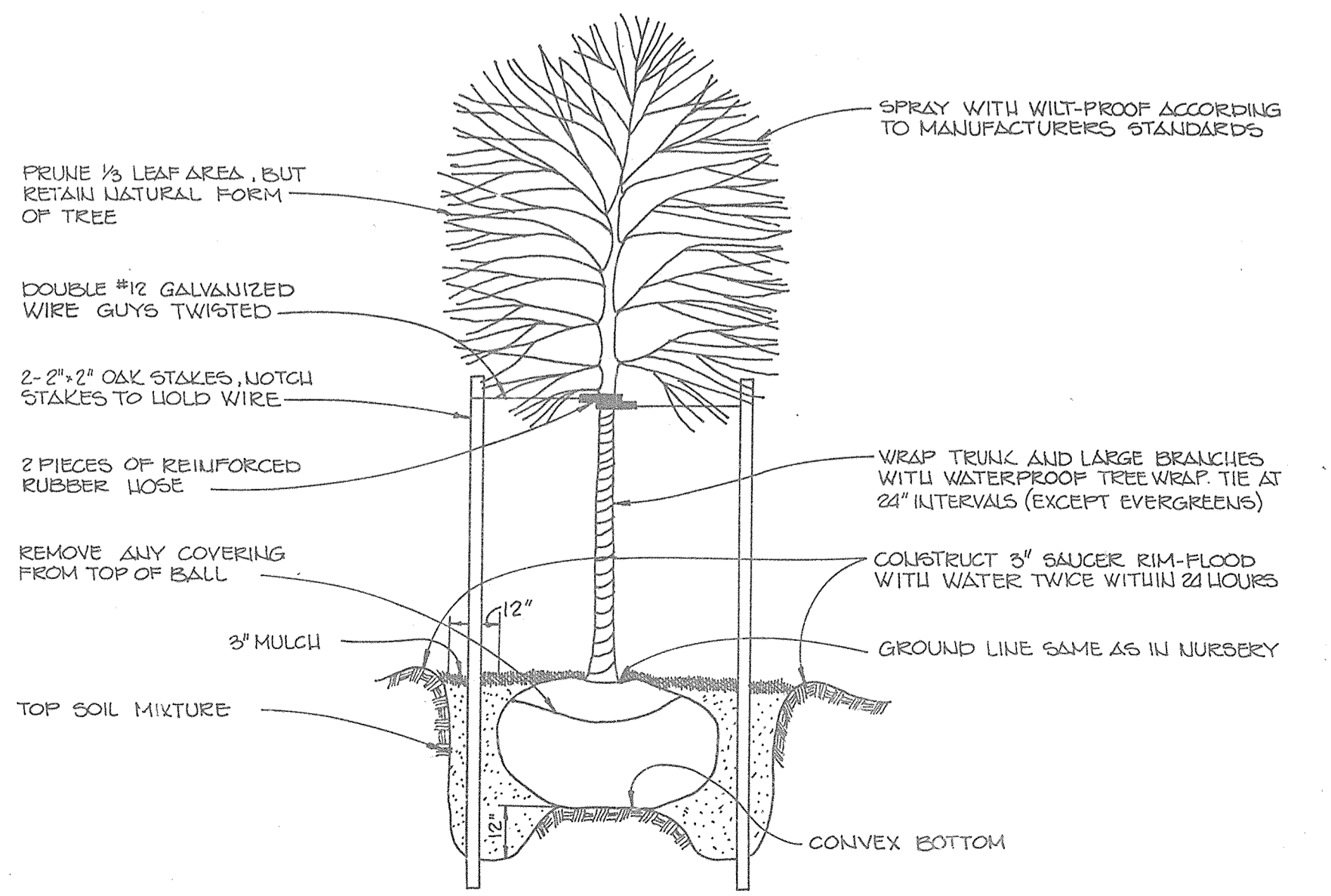
BIORETENTION PLANT LIST

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	☼	ACER RUBRUM	RED MAPLE	2 1/2" - 3" CAL.
2	☼	ILEX GLABRA	INK BERRY	2' - 3' HT.
12	☼	LOBELIA CARDINALIS	CARDINAL FLOWER LOBELIA	1 GAL. CONTAINER
8	☼	ANDROPOGON VIRGINICUS	BROOMSEDGE	1 GAL. CONTAINER
6	☼	DICHTANHELUM SCOPARIUM	BROOM PANIC GRASS	1 GAL. CONTAINER

TOTAL: 26 PERENNIALS, 2 SHRUBS, 1 TREE

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS		ADJACENT TO PERIMETER PROPERTIES	
	1	2	3	4
PERIMETER/FRONTAGE DESIGNATION	B	A	C	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	168	185	114	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	NO	
REMAINING PERIMETER LENGTH				
CREDIT FOR WALL FENCE OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	
REMAINING PERIMETER LENGTH				
NUMBER OF PLANTS REQUIRED				
SHADE TREES	1:50 3	1:60 3	1:40 3	
EVERGREEN TREES	1:40 4	-	1:20 6	
SHRUBS	-	-	-	
NUMBER OF PLANTS PROVIDED				
SHADE TREES	3	3	3	
EVERGREEN TREES	4	1	3	
OTHER TREES (2:1 SUBSTITUTION)	1	1	1	
SHRUBS (10:1 SUBSTITUTION)				
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)				



TREE PLANTING DETAIL
NO SCALE

5-9-79 **ADD SECURITY FENCE**

DATE NO. REVISION

APPROVED

DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND

DATE 9-12-86

M. ...

10 October 1986
DATE

DESIGNED BY T.D.F.

DRAWN BY T.D.F.

PROJECT NO 25003

DATE 19 MAY 1986

SCALE 1" = 30'

DRAWING NO. 5 OF 10

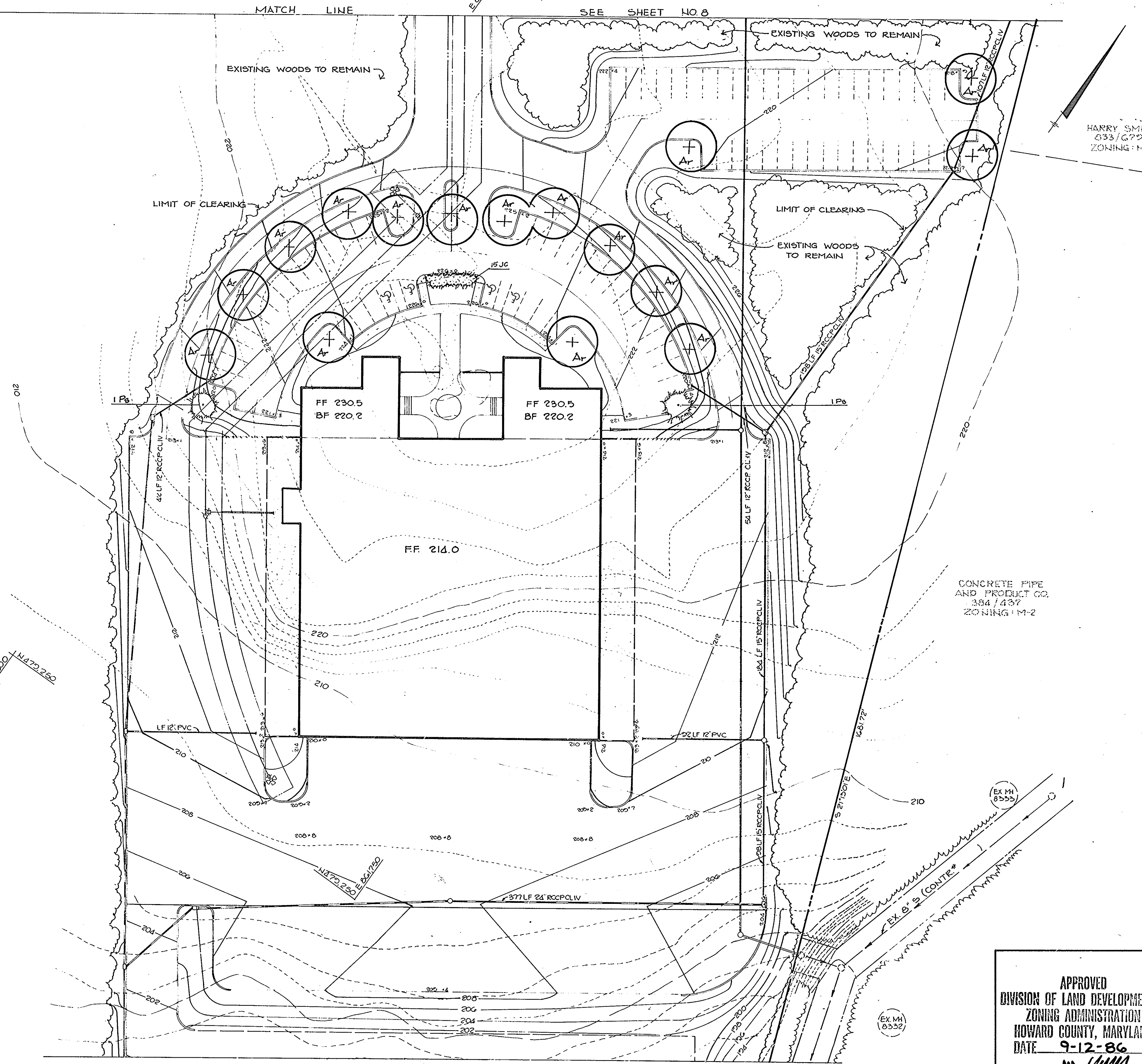
Melanie Moser
MELANIE MOSER

BURDETT OXYGEN CO.
071/244
ZONING: M-2

MATCH LINE

SEE SHEET NO. 8

NOTE: SEE SHEET 8 OF 9 FOR PLANT LIST AND PLANTING DETAIL.



CONCRETE PIPE
AND PRODUCT CO.
384 / 437
ZONING: M-2

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

John B. ... 12-17-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Dorothy ... 12-22-86
PLANNING DIRECTOR DATE

John ... 12-22-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James ... 12-18-86
DIRECTOR DATE

Richard ... 12-18-86
CHIEF, BUREAU OF ENGINEERING DATE

2-9-01 REV. DWG. NO. DATE NO REVISION

OWNER/DEVELOPER
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

PROJECT
DORSEY RUN PARK

AREA TAX MAP NO. 48 PARCEL 5
GTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
PLANTING PLAN

THE RIEMER GROUP, INC.

The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Heath Park Drive, Ellicott City, Maryland 21043 (301) 481-2860

10 October 1986 DATE

DESIGNED BY: T.D.F.

DRAWN BY: T.D.F.

PROJECT NO: 25003

DATE: 19 MAY 1986

SCALE: 1"=30'

DRAWING NO. 9 OF 10

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-12-86
M. Moser



Melanie Moser
MELANIE MOSER

SDP-86-255

MARYLAND BLUEPRINT CO., INC.

Precast Concrete Order Request Form
* TO BE INCLUDED ON SHOP PLAN BY DESIGNER

CONTRACTOR INFORMATION

Name _____
Address _____
City _____
State _____
Zip Code _____
Contact _____
Phone _____
Fax _____

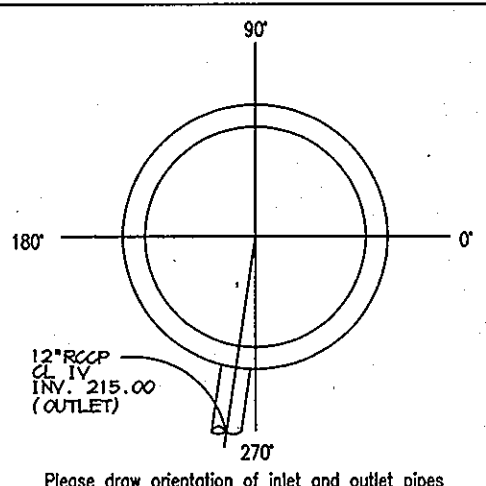
OWNER INFORMATION

Name CRYSTAL HILL INVESTMENTS
Phone (410) 381-4444
Fax _____

IMPERVIOUS DRAINAGE AREA FOR THIS UNIT 0.32 AC.

Stormceptor Model	Inlet Size	Insert Size
4500 <input type="checkbox"/>	3600 <input type="checkbox"/>	SINGLE INLET DISC <input type="checkbox"/>
900 <input type="checkbox"/>	4800 <input type="checkbox"/>	MULTIPLE INLET DISC <input type="checkbox"/>
1200 <input type="checkbox"/>	6000 <input type="checkbox"/>	4500 DISC <input type="checkbox"/>
1800 <input type="checkbox"/>	7200 <input type="checkbox"/>	4500 DISC <input checked="" type="checkbox"/>

Project Name DORSEY RUN PARK
Approximate time frame of delivery (weeks) _____
Delivery Address: Street DORSEY RUN ROAD
City BESSELP State MARYLAND Zip Code _____
Designer Company RIEMER MUEGGE, A DIVISION OF PATTON, HARRIS, RUST & ASSOCIATES, PC
Designer Contact GREGG REID, P.E. Phone (410) 981-8900 Fax (410) 981-4282



Please draw orientation of inlet and outlet pipes on diagram along with the pipe inside diameter (ID) and invert elevation (ft). Clearly mark inlet pipes with an 'I' and outlet pipes with an 'O'. Please provide the inlet/outlet pipe angle in degrees.

PLEASE FILL OUT COMPLETELY AND FAX TO: **CSR Hydro Conduit**
ATTN: JAMES TAYLOR FAX: (301) 698-5351, PHONE: (301) 698-7373
FOR TECHNICAL ASSISTANCE PLEASE CALL JAMES TAYLOR, PHONE (301) 698-7373 EXT 228

Precast Concrete Order Request Form
* TO BE INCLUDED ON SHOP PLAN BY DESIGNER

CONTRACTOR INFORMATION

Name _____
Address _____
City _____
State _____
Zip Code _____
Contact _____
Phone _____
Fax _____

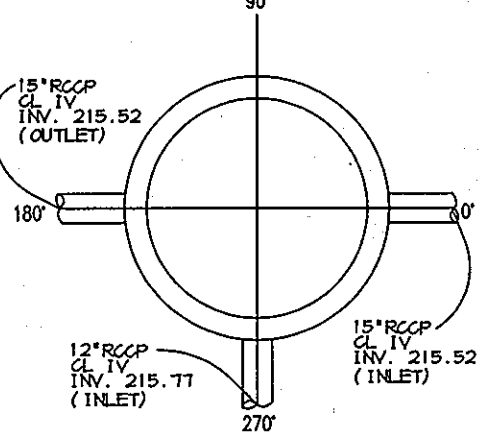
OWNER INFORMATION

Name CRYSTAL HILL INVESTMENTS
Phone (410) 381-4444
Fax _____

IMPERVIOUS DRAINAGE AREA FOR THIS UNIT 1.06 AC.

Stormceptor Model	Inlet Size	Insert Size
4500 <input type="checkbox"/>	3600 <input type="checkbox"/>	SINGLE INLET DISC <input type="checkbox"/>
900 <input type="checkbox"/>	4800 <input type="checkbox"/>	MULTIPLE INLET DISC <input type="checkbox"/>
1200 <input type="checkbox"/>	6000 <input type="checkbox"/>	4500 DISC <input type="checkbox"/>
1800 <input type="checkbox"/>	7200 <input type="checkbox"/>	4500 DISC <input type="checkbox"/>

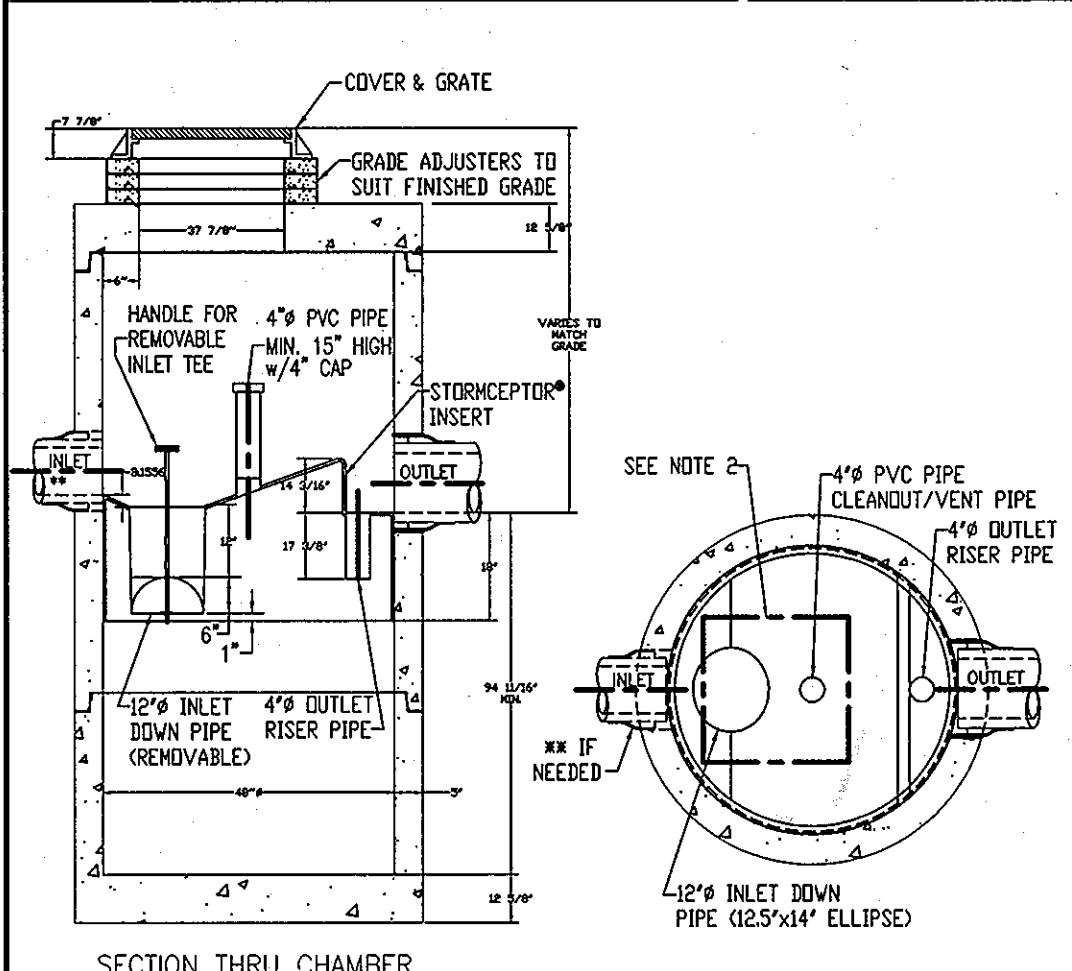
Project Name DORSEY RUN PARK
Approximate time frame of delivery (weeks) _____
Delivery Address: Street DORSEY RUN ROAD
City BESSELP State MARYLAND Zip Code _____
Designer Company RIEMER MUEGGE, A DIVISION OF PATTON, HARRIS, RUST & ASSOCIATES, PC
Designer Contact GREGG REID, P.E. Phone (410) 981-8900 Fax (410) 981-4282



Please draw orientation of inlet and outlet pipes on diagram along with the pipe inside diameter (ID) and invert elevation (ft). Clearly mark inlet pipes with an 'I' and outlet pipes with an 'O'. Please provide the inlet/outlet pipe angle in degrees.

PLEASE FILL OUT COMPLETELY AND FAX TO: **CSR Hydro Conduit**
ATTN: JAMES TAYLOR FAX: (301) 698-5351, PHONE: (301) 698-7373
FOR TECHNICAL ASSISTANCE PLEASE CALL JAMES TAYLOR, PHONE (301) 698-7373 EXT 228

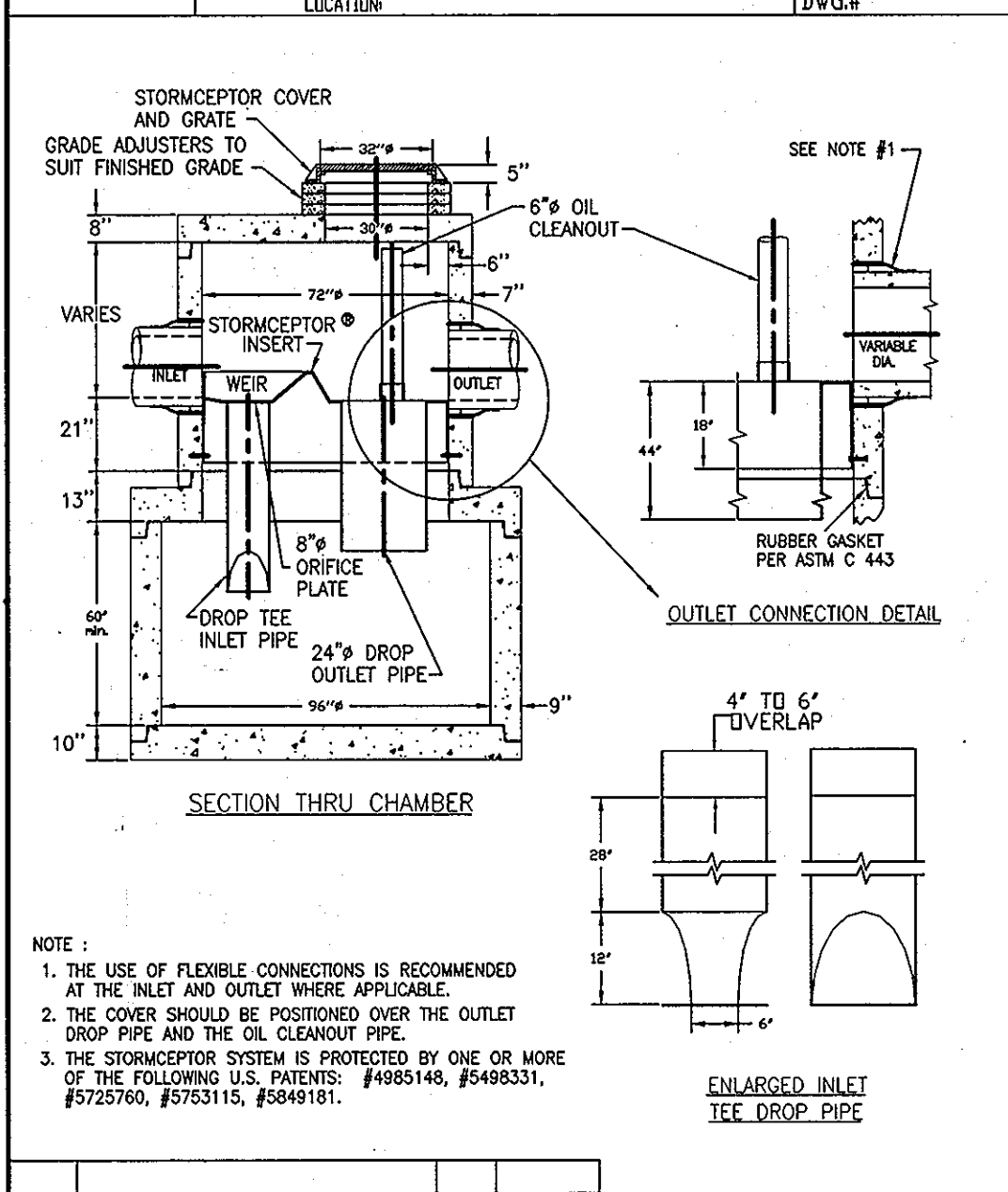
CSR Hydro Conduit
STC 4501 Precast Concrete Stormceptor®
PROJECT: _____
LOCATION: _____



NOTE:

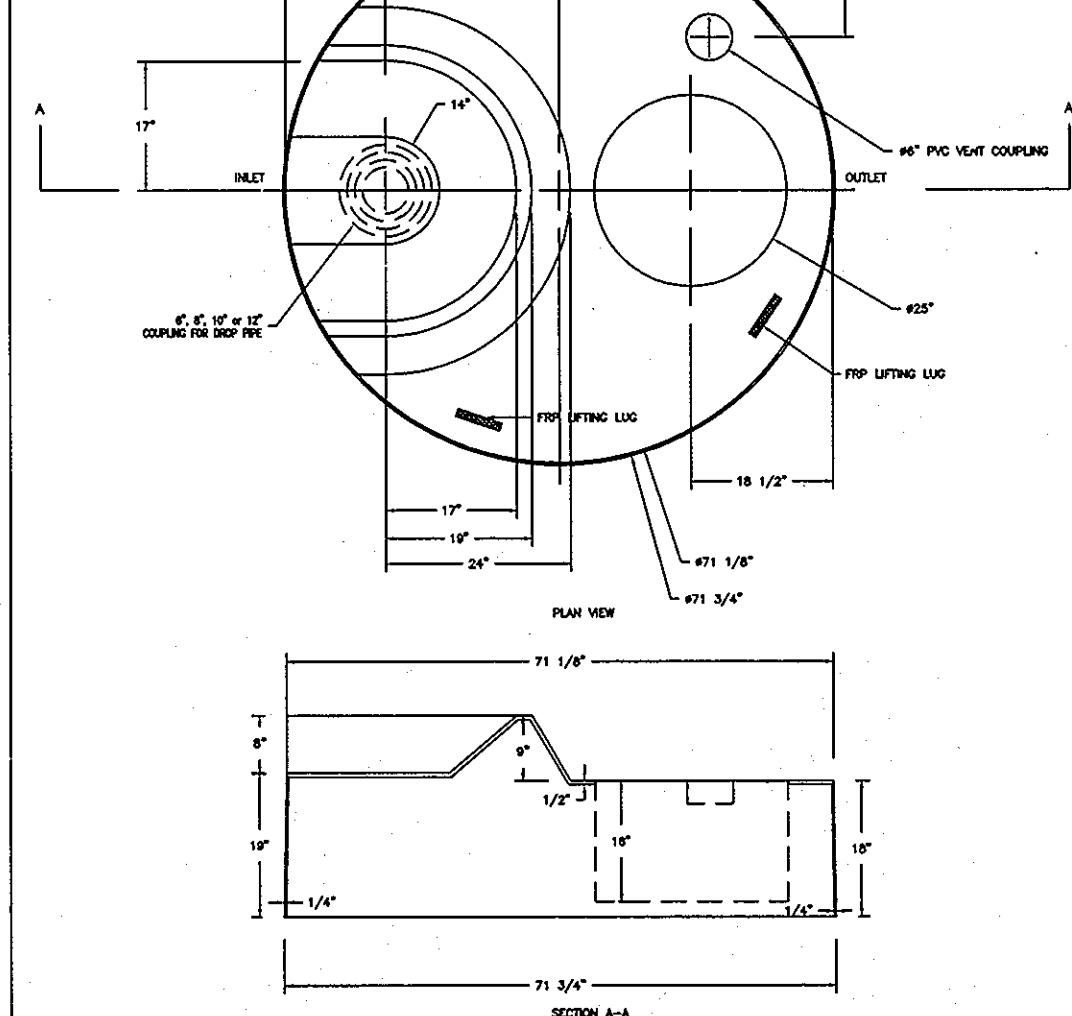
- THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
- THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/VENT PIPE.
- THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.

CSR Hydro Conduit
STC 2400 Precast Concrete Stormceptor®
PROJECT: _____
LOCATION: _____



NOTE:

- THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
- THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
- THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.



TITLE: YSP DISC INSERT WITH 6\" DROP PIPE
DRAWN BY: _____
SCALE: _____
DATE DRAWN: _____
REVISION: _____

CONTRACTOR INSTALLATION PROCEDURE FOR STORMCEPTOR

- STAKE-OUT THE LOCATION OF THE INLET STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED AGGREGATE SUBBASE AT BOTTOM OF EXCAVATION.
- CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM THE BASE OF THE STORAGE CHAMBER (BOTTOM OF BASE SLAB) TO THE INVERT OF THE UNIT BYPASS CHAMBER OUTLET ELEVATION/FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN OUTLET ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED.
- SECURE INSPECTOR APPROVAL OF SUBGRADE AND SUBBASE.
- INSTALL STORAGE CHAMBER. ATTACH CABLES OR CHAINS TO THE THREE PULLING IRONS ON THE BASE SLAB. USING LARGE EQUIPMENT OR CRANE, LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAMBER IN THE EXCAVATED HOLE ON THE SUBBASE. MAKE SURE THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT REQUIRED. INSTALL RUBBER GASKET ON THE BASE UNIT AND APPLY LUBRICATING SOAP (PROVIDED IN SHIPMENT).
- INSTALL BYPASS CHAMBER OF INLET STORMCEPTOR WITH FACTORY INSTALLED INSERT. LIFT BYPASS SECTION, LUBRICATE BELL, AND INSTALL WHILE CHECKING ALIGNMENT AND GRADE OF OUTLET DRAINAGE PIPE. CHECK AND MAKE SURE BYPASS CHAMBER IS SET FLUSH, LEVEL, AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON TOP OF BYPASS RISER AND LUBRICATE.
- INSTALL INLET AND OUTLET STORM DRAIN PIPES. CONNECT PIPE WITH FLEXIBLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINKING GROUT WHEN FLEXIBLE BOOTS ARE NOT PROVIDED. THE INVERT OF THE OUTLET PIPE IS TO MATCH THE INVERT OF THE STORMCEPTOR INSERT. FLEXIBLE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND THE INSIDE OF THE BOOT. POSITION THE PIPE CLAMP IN THE GROOVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP WHILE ENSURING EVEN CONTRACTION OF THE RUBBER.
- INSTALL INLET DOWN PIPE WITH HANDLE AND 4" VENT PIPE ACCORDING TO INSTALLATION INSTRUCTIONS FOR INLET STORMCEPTOR MODEL STC4501.
- INSTALL RISER SECTION. ALIGN STEPS ABOVE INLET (12") DOWN PIPE. NOTE, FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOT BE REQUIRED.
- INSTALL FLATTOP WITH OPENING FOR STORMCEPTOR FRAME AND GRATE ORIENTED ABOVE THE STORMCEPTOR 12" INLET DOWN PIPE. SECTION MAY NOT BE REQUIRED.
- BACKFILL STORMCEPTOR WITH APPROVED BACKFILL MATERIAL (NO ORGANIC OR TOPSOIL IS TO BE USED FOR BACKFILL). BACKFILL AND COMPACT IN 8" LIFTS. BACKFILL SHOULD BE COMPACTED TO LOCAL/STATE REQUIREMENTS.
- INSTALL AND SET GRADE ADJUSTING RINGS, AS NEEDED.
- INSTALL AND SET FRAME AND GRATE.
- THE STORMCEPTOR SHOULD BE PUMPED OUT WHEN SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED).
- FINAL INSPECTION.

FOR TECHNICAL INFORMATION CALL CSR HYDRO CONDUIT AT (301) 640-1919 OR STORMCEPTOR CORPORATION AT 1-800-762-4703

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR

- THE STORMCEPTOR WILL REQUIRE PERIODIC INSPECTION AND CLEANING TO MAINTAIN OPERATION AND EFFECTIVENESS. OWNERS WILL INSPECT THE UNIT YEARLY OR AS REQUIRED BY THE MUNICIPALITY, UTILIZING THE STORMCEPTOR INSPECTION/MONITORING FORM. INSPECTIONS CAN BE DONE BY USING A CLEAR FLEXIPLUG TUBE ("SLUDGE JUDGE") TO EXTRACT A WATER COLUMN SAMPLE. WHEN SEDIMENT DEPTHS EXCEED EIGHT (8) INCHES, CLEANING OF THE UNIT IS REQUIRED.
- INLET AND OUTLET PIPES MUST BE CHECKED FOR ANY OBSTRUCTIONS AND IF ANY OBSTRUCTIONS ARE FOUND, THEY MUST BE REMOVED.
- THE STORMCEPTOR MUST BE CHECKED AND CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. CONTACT APPROPRIATE REGULATORY AGENCIES.
- MAINTENANCE OF THE STORMCEPTOR UNITS SHOULD BE PERFORMED BY A VACUUM TRUCK WHICH WILL REMOVE THE WATER, SEDIMENT, DEBRIS, FLOATING HYDROCARBONS, AND OTHER MATERIALS IN UNIT. THE PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED.
- OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO MUNICIPALITY OFFICIALS UPON REQUEST.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James Taylor 3/2/01
DIRECTOR DATE

Gregg Reid 2/10/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cynthia Hamster 3/2/01
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

REV.	DESCRIPTION	BY	DATE
2/9/01	1		ADD THIS SHEET (10) TO SET OF DWGS.

DEVELOPER/OWNER:
CRYSTAL HILL INVESTMENTS
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046

PROJECT
DORSEY RUN PARK

AREA
TAX MAP 48 PARCEL 5
LIBER 1000, FOLIO 155
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
STORMCEPTOR DETAILS AND NOTES

RIEMER MUEGGE
a division of:
Patton Harris Rust & Associates, pc
ENGINEERS & SURVEYORS & PLANNERS
LANDSCAPE ARCHITECTS & ENVIRONMENTAL SPECIALISTS
8818 Centre Park Drive, Columbia, MD 21045 • Tel 410.997.8900 Fax 410.997.9282

DESIGNED BY: C.J.R.
DRAWN BY: G.T.H.
CHECKED BY: C.J.R.
PROJECT NO: 00280/
Stormceptor.DWG
DATE: FEBRUARY 9, 2001
SCALE: SEE PLAN
DRAWING NO. 10 OF 10

DATE _____
STATE OF MARYLAND
ARTHUR E. MUEGGE #8707
PROFESSIONAL ENGINEER

(SUPPLEMENTAL SHEET 10 of 10)