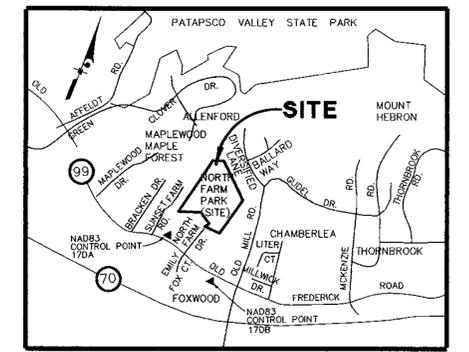


- GENERAL NOTES**
- TOTAL PROJECT AREA= 816,750 S.F.= 18.75 AC.
 - LIMIT OF DISTURBANCE= 27,025 S.F.= 0.62 AC.
 - ZONING= R-20
 - EXISTING USE= PARK
PROPOSED USE: PLAY GROUND AND PARKING LOT
 - NUMBER OF PARKING SPACES REQUIRED DETERMINED BY THE DEPARTMENT OF PLANNING AND ZONING.
NUMBER OF PARKING SPACES PROVIDED:
4 PARKING SPACES, 2 HANDICAPPED SPACES
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY BENTGSON, DeBELL & ELKIN, LTD DATED 11/98.
 - THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 17DA AND 17 DB WERE USED FOR THIS PROJECT.
 - EXISTING WATER IS PUBLIC, CONTRACT NO. 704-W.
 - EXISTING SEWER IS PUBLIC, CONTRACT NO. 739-S.
 - TWO BIORETENTION FACILITIES WILL PROVIDE QUALITY STORMWATER MANAGEMENT. IT WILL BE OWNED AND MAINTAINED BY THE DEPARTMENT OF PARKS AND RECREATION.
 - THERE IS NO FLOODPLAIN ON THIS SITE. DRAINAGE AREA IS LESS THAN 30 ACRES. PER DPW, FLOODPLAIN FROM BRIDGEWATER SUBDIVISION DOES NOT ENCRoACH ON THIS SITE.
 - THE WETLANDS DELINEATION FOR THIS PROJECT WAS FIELD SURVEY BY BENTGSON, DeBELL & ELKIN, LTD. DATED 11/98.
 - NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
 - FILL SHALL BE PLACED UNDER THE DIRECTION OF A SOILS ENGINEER.
 - ADJUST CURB, AND PAVING TO ENSURE POSITIVE DRAINAGE AND A MINIMUM OF 1% SLOPE.
 - CONSULT ALL DRAWINGS AND SPECIFICATIONS PRIOR TO BEGINNING CONSTRUCTION FOR COORDINATION REQUIREMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ON SITE.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND BY ANY CONTRACTOR.
 - FOR FIELD LOCATION OF GAS LINE SERVICES, NOTIFY BALTIMORE GAS & ELECTRIC LIGHT CO., 48 HOURS PRIOR TO ANY DISRUPTION OF THAT SERVICE.
 - THE CONTRACTOR SHALL TAKE PROPER PRECAUTION SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES AND STRUCTURES. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION OR BETTER.
 - WHERE THE 8' BITUMINOUS PATH CROSSES WETLAND AREAS, THE CONTRACTOR SHALL LIMIT THE AREA OF DISTURBANCE TO THE MAXIMUM EXTENT POSSIBLE.
 - THE FOREST CONSERVATION REQUIREMENTS HAVE BEEN MET BY FILING OF A "DECLARATION OF INTENT" FOR SINGLE LOT GRADING OF LESS THAN 40,000 S.F. OF FORESTS ON THIS SITE. *Total Forest clearing, 0.62 AC (27,000 sq. feet)*
 - NO OUTDOOR LIGHTING OR DUMPSTER WILL BE PROVIDED ON THIS SITE.
 - THIS PLAN WAS THE SUBJECT OF PREVIOUS DPZ FILE NOS SDP 98-42 AND WP 98-43, BOTH VOID ON 1/23/98.



VICINITY MAP
SCALE: 1"=2000'

LEGEND:

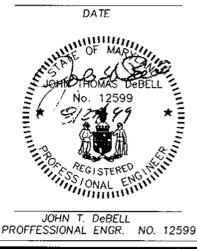
	EXISTING PERENNIAL STREAM		SLOPES > 15% < 25%
	EXISTING TREE LINE		SLOPES > 25%
	PROPOSED TREE LINE		PROPOSED SIDEWALK RAMP
	EXISTING CONTOUR		FLOW ARROW
	PROPOSED CONTOUR		PROPOSED RETAINING WALL SEE DETAIL SHEET 4 OF 9
	PROPOSED SPOT ELEVATION		REVERSE CONCRETE CURB & GUTTER SEE DETAIL SHEET 3 OF 9
	WETLAND BOUNDARY		CONCRETE CURB & GUTTER SEE DETAIL SHEET 3 OF 9
	CONCRETE SURFACE		TOP OF CURB
	BITUMINOUS PAVEMENT SURFACE		BOTTOM OF CURB
	SAF DEK SEAMLESS PAVEMENT		PROPOSED DRAINAGE DIVIDES

SHEET INDEX:

- SITE PLAN
- SITE PLAN
- SITE DETAIL PLAN
- DRAINAGE AREA MAP
- STORMWATER MANAGEMENT PLAN
- STORMWATER MANAGEMENT NOTES AND DETAILS
- EROSION AND SEDIMENT CONTROL PLAN
- EROSION AND SEDIMENT CONTROL PLAN
- EROSION AND SEDIMENT CONTROL PLAN NOTES AND DETAILS
- WETLAND DELINEATION

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

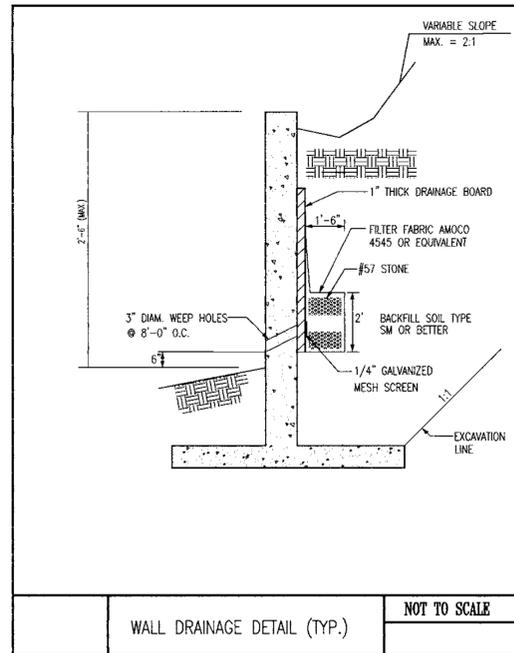
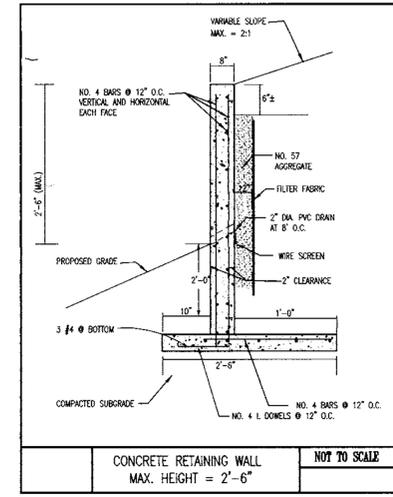
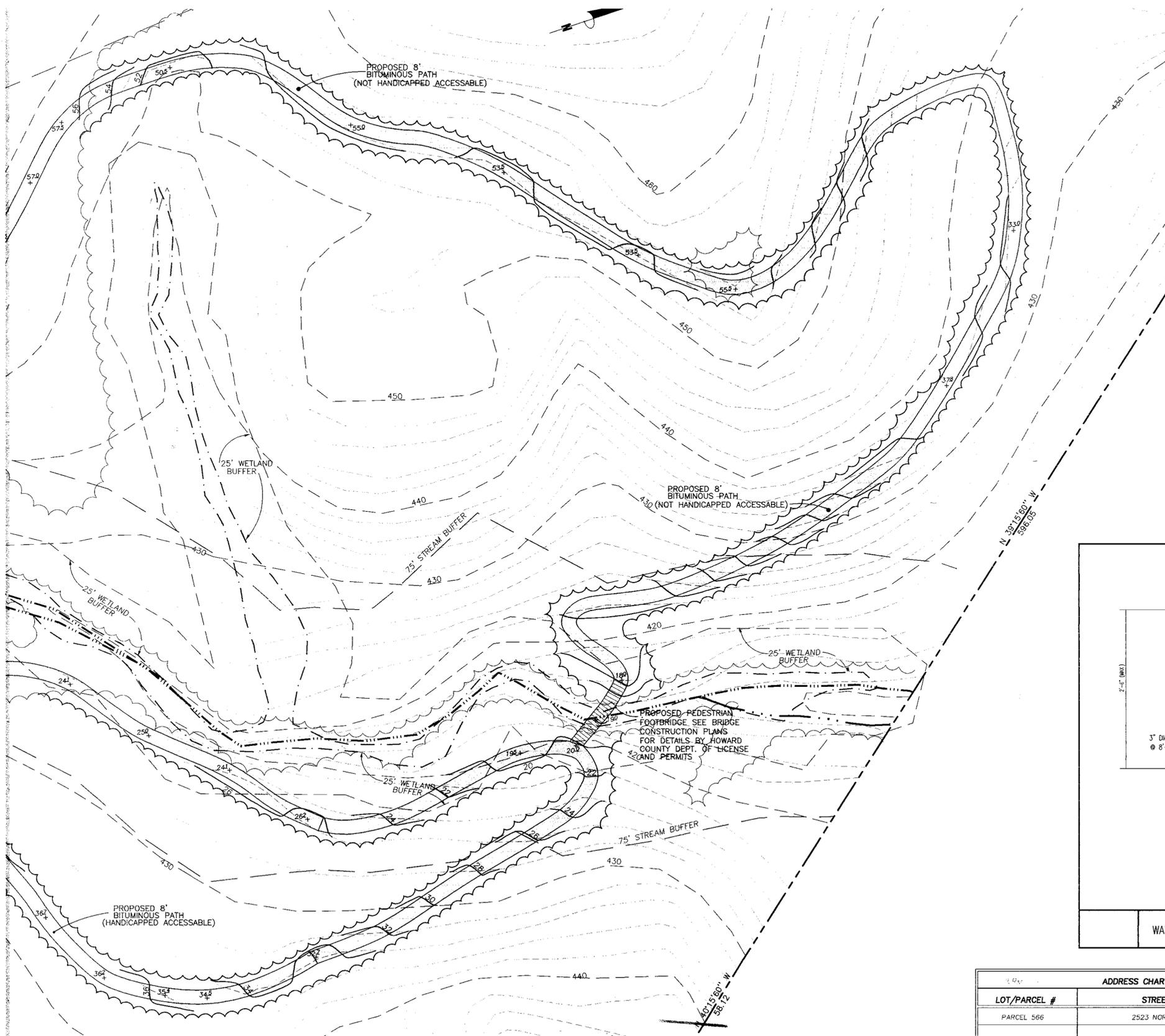
PERMIT INFORMATION CHART	
SUBDIVISION NAME	SECTION/AREA
NORTH FARM PARK	18.75 ACRES
LOT/PARCEL #	P566
PLAY # OF LOTS	1394/040
BLOCK #	ZONING R-20
TAX MAP	17
ELECT DIST	2ND
DENSITY TRACT	6021
WATER CODE	H03
SEWER CODE	5758000



DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John DeBell</i>	12/8/99	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION		
<i>Cindy Hamlin</i>	12/6/99	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT		
<i>John DeBell</i>	12/16/99	DATE
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING		
OWNER: CLARA GOVIN FAX NO.: (410) 313-4646		
A. NAME: CLARA GOVIN B. DAYTIME TELEPHONE: (410) 313-4640		
C. COMPANY: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS		
D. ADDRESS: 7120 OAKLAND MILLS ROAD		
E. CITY: COLUMBIA STATE: MD. ZIP: 21046		
DEVELOPER: RONALD LEPPON FAX NO.: (410) 313-3435		
A. NAME: RONALD LEPPON B. DAYTIME TELEPHONE: (410) 313-3430		
C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING		
D. ADDRESS: 3450 COURTHOUSE DRIVE		
E. CITY: ELLICOTT CITY STATE: MD. ZIP: 21043		
BENTGSON, DeBELL & ELKIN, LTD.		
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS		
170 ROLLINS AVENUE, ROCKVILLE, MARYLAND 20852		
(301) 488-9400		
OFFICE LOCATIONS: CHESTERFIELD COUNTY, VIRGINIA • PRINCE WILLIAM COUNTY, VIRGINIA • MONTGOMERY COUNTY, MARYLAND • FARRAS COUNTY, VIRGINIA • VIRGINIA BEACH, VIRGINIA • LOUDOUN COUNTY, VIRGINIA		
SITE PLAN FOR PLAYGROUND IN NORTH FARM PARK		
DESIGN BY: PWR	SCALE: 1"=30'	PROJECT NO.:
DRAWN BY: ECC	DATE: OCT. 28, 1997	DRAWING NUMBER:
CHECKED BY: MFV	APPROVED:	SHT 1 OF 10

SDP 99-120

MATCH LINE SEE SHEET 1 FOR CONTINUOUS



- STRUCTURAL NOTES:**
- CONCRETE DESIGN CONFORMS TO ACI 318-95
 - CONCRETE MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO ACI 301-92 SPECIFICATIONS FOR 3500 PSI CONCRETE, AND TO ALL APPLICABLE LOCAL BUILDING CODES.
 - THE RETAINING WALL IS DESIGNED FOR LATERAL EQUIVALENT FLUID PRESSURE = 45 PSF TO BE VERIFIED DURING THE TIME OF CONSTRUCTION BY ANALYZING EXISTING ON SITE BACK FILL MATERIAL BY A GEOTECHNICAL ENGINEER.
 - REQUIRED FOOTING SIZES ARE BASED ON A SOIL WITH MINIMUM ALLOWABLE BEARING CAPACITY OF 2500 PSF TO BE VERIFIED AT THE TIME OF CONSTRUCTION BY A CERTIFIED SOILS TECHNICIAN.
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60
 - MINIMUM SPLICE LENGTH FOR:
 - #4 BARS - 20"
 - #5 BARS - 26"
 - #6 BARS - 33"
 - #7 BARS - 45"
 - #8 BARS - 59"
 - EXPOSED CONCRETE WALL SURFACES SHALL BE OF GRAY COLOR AND RECEIVE RUB FINISH TO A UNIFORM APPEARANCE.
 - FOR PAVEMENT ELEVATIONS NOT SHOWN, CONTRACTOR SHALL REFER TO SITE PLAN.
 - GUARD RAIL SHALL BE PROVIDED ALONG THE LENGTH OF THE WALLS WHERE A DROP OF MORE THAN 4'-0" EXIST AND NEAR A WALKWAY.
 - THE FOLLOWING SCHEDULE OF INSPECTIONS IS REQUIRED BY BDE, LTD.
 - SUBGRADE BELOW FOOTING PRIOR TO CONCRETE PLACEMENT.
 - FORMS, REINFORCEMENT, AND ANCHORAGE FOR POSITION AND SUPPORT PRIOR TO DEPOSITING CONCRETE.
 - CONCRETE PLACEMENT, ONE SET OF CYLINDERS EACH DAY OR 50 CUBIC YARDS.
 - EXPOSED CONCRETE WHEN FORMS ARE REMOVED, PRIOR TO BACKFILLING EXCAVATED AREA.
 - BACKFILL LAYERS, ONE DENSITY TEST EACH LIFT PER 50 LINEAR FEET BEHIND WALL
 - EACH SET OF CYLINDERS SHALL COMPOSE OF:
 - 2 CYLINDERS AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS OF FIELD CURING.
 - 2 CYLINDERS AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS OF FIELD CURING.
 - BACKFILL FOR SOIL BEHIND THE RETAINING WALL SHALL CONFORM TO THE TYPE GW, GP, SW, SP, SM OF THE UNIFIED SOIL CLASSIFICATION SYSTEM.
 - CONTRACTOR SHALL SUBMIT REINFORCED STEEL AND CONCRETE SHOP DRAWINGS FOR ENGINEER APPROVAL PRIOR TO ORDERING MATERIALS.

NOTE:
SEE SHEET 10 FOR METES AND BOUNDS DESCRIPTION FOR THE WETLAND LIMITS

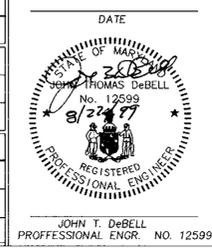
DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		APPROVED: DEPARTMENT OF PLANNING AND ZONING

A. NAME: CLARA GOJIN B. DAYTIME TELEPHONE: (410) 313-4646
 C. COMPANY: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 D. ADDRESS: 7120 OAKLAND MILLS ROAD
 E. CITY: COLUMBIA STATE: MD. ZIP: 21046

DEVELOPER: RONALD LEPSON B. DAYTIME TELEPHONE: (410) 313-3430
 C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
 D. ADDRESS: 3450 COURTHOUSE DRIVE
 E. CITY: ELLICOTT CITY STATE: MD. ZIP: 21043

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART				
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	TAX MAP	ELECT. DIST.
N/A	18.75 ACRES	P566	17	2ND
PLAT # OR LIT.	BLOCK #	ZONING	CENSUS TRACT	
1394/040	8	R-20	6021	
WATER CODE	SEWER CODE			
HO.3	5758000			



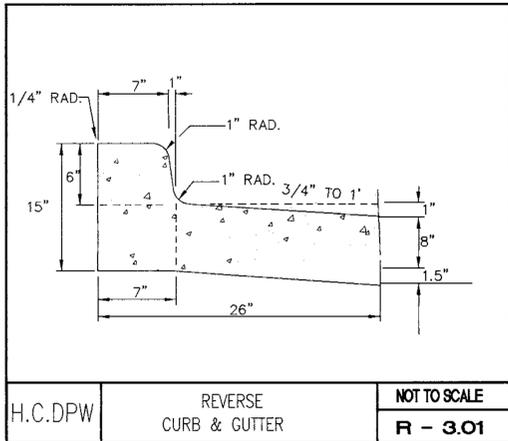
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(301) 468-8400

BDE

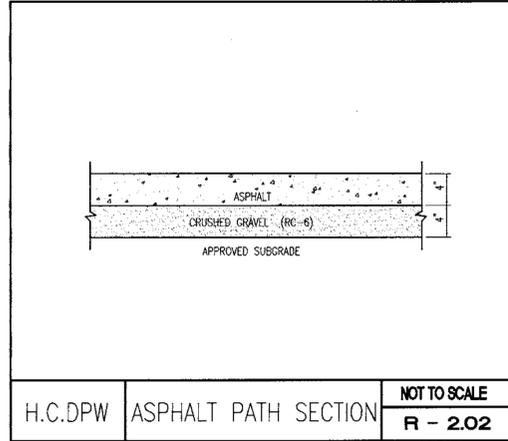
OFFICE LOCATIONS:
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 • PRINCE WILLIAM COUNTY, VIRGINIA
 • FARRAS COUNTY, VIRGINIA
 • VIRGINIA BEACH, VIRGINIA
 • MONTGOMERY COUNTY, MARYLAND
 • LOUISIANA COUNTY, VIRGINIA

SITE PLAN FOR PLAYGROUND IN NORTH FARM PARK

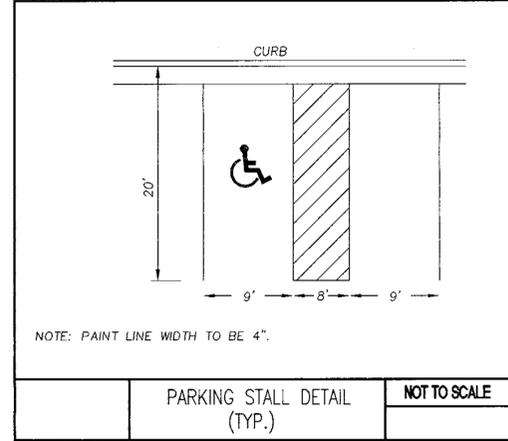
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 DRAWN BY: ECW DATE: OCT. 28, 1997 DRAWING NUMBER:
 CHECKED BY: MFV APPROVED: SHT 2 OF 10



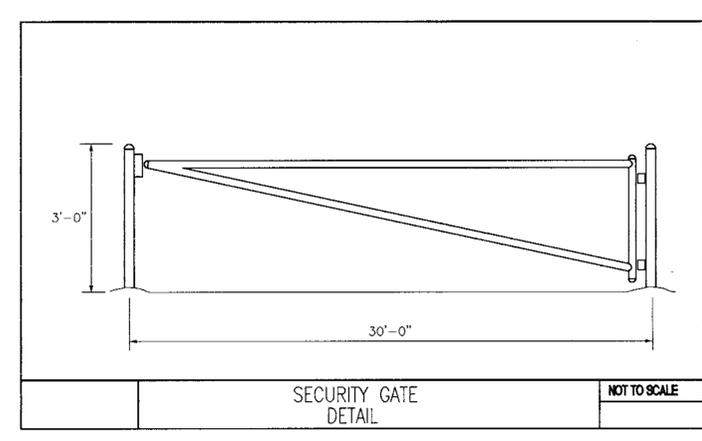
H.C.DPW REVERSE CURB & GUTTER NOT TO SCALE R - 3.01



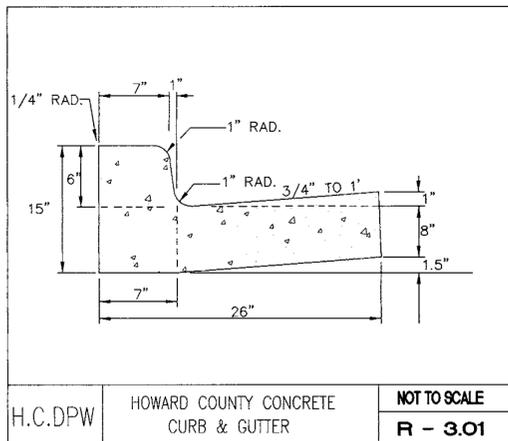
H.C.DPW ASPHALT PATH SECTION NOT TO SCALE R - 2.02



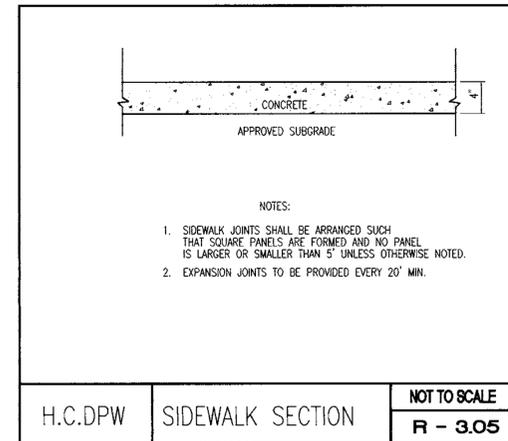
PARKING STALL DETAIL (TYP.) NOT TO SCALE



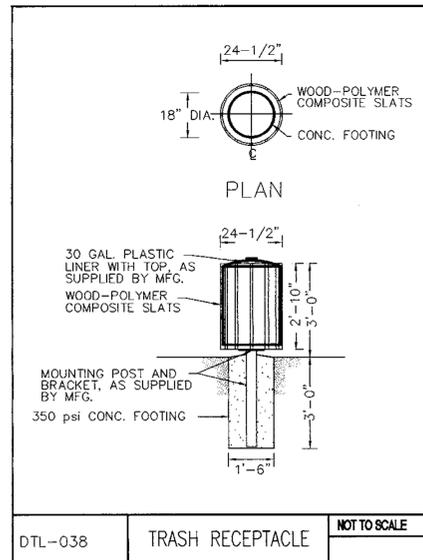
SECURITY GATE DETAIL NOT TO SCALE



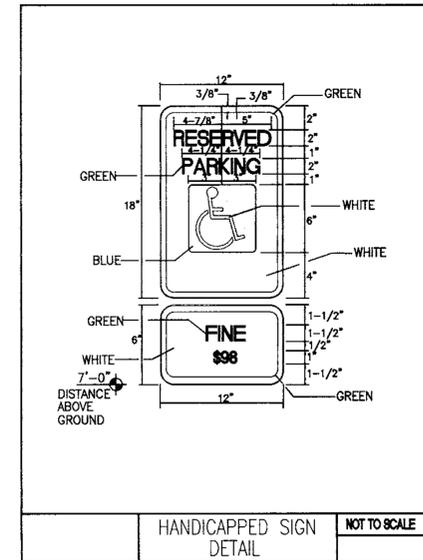
H.C.DPW HOWARD COUNTY CONCRETE CURB & GUTTER NOT TO SCALE R - 3.01



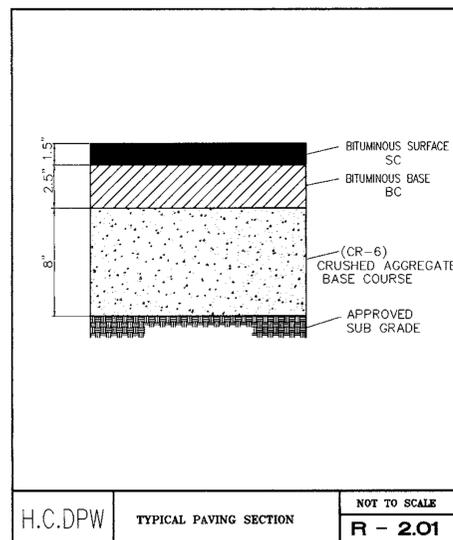
H.C.DPW SIDEWALK SECTION NOT TO SCALE R - 3.05



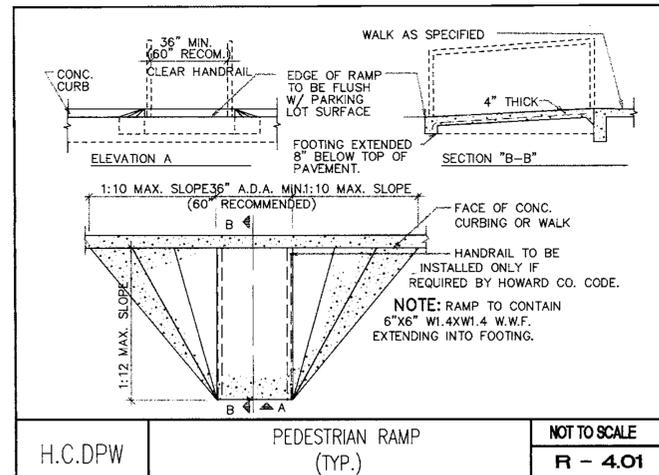
DTL-038 TRASH RECEPTACLE NOT TO SCALE



HANDICAPPED SIGN DETAIL NOT TO SCALE



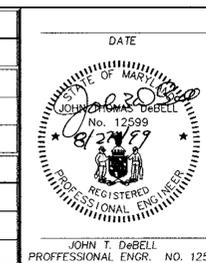
H.C.DPW TYPICAL PAVING SECTION NOT TO SCALE R - 2.01



H.C.DPW PEDESTRIAN RAMP (TYP.) NOT TO SCALE R - 4.01

ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 566	2523 NORTH FARM DRIVE		

PERMIT INFORMATION CHART				
SUBDIVISION NAME	NORTH FARM PARK	SECTION/AREA	18.75 ACRES	LOT/PARCEL # P566
PLAT # OR L.P.	1394/040	BLOCK #	ZONING R-20	TAX MAP 17
ELECT DIST	2ND	CENSUS TRACT	6021	
WATER CODE	H03	SEWER CODE	5758000	



DATE	NUMBER	REVISION DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Clara Gouin 12/8/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

Condy Hamilton 12/16/99
CHIEF, DIVISION & LAND DEVELOPMENT DATE

John T. DeBell 12/16/99
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

OWNER: CLARA GOUIN FAX NO.: (410) 313-4646
A. NAME: CLARA GOUIN B. DAYTIME TELEPHONE: (410) 313-4640
C. COMPANY: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
D. ADDRESS: 7120 OAKLAND MILLS ROAD
E. CITY: COLUMBIA STATE: MD. ZIP: 21046

DEVELOPER: RONALD LEPSON FAX NO.: (410) 313-3435
A. NAME: RONALD LEPSON B. DAYTIME TELEPHONE: (410) 313-3430
C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
D. ADDRESS: 3450 COURTHOUSE DRIVE
E. CITY: ELLICOTT CITY STATE: MD. ZIP: 21043

PLANNING BOARD APPROVAL

BENGTSON, DeBELL & ELKIN, LTD.
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
170 ROLLING AVENUE, ROCKVILLE, MARYLAND 20852
(301) 458-5400

OFFICE LOCATIONS:
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• FAIRFAX COUNTY, VIRGINIA • VIRGINIA BEACH, VIRGINIA • GAITHERSBURG COUNTY, VIRGINIA

TITLE: **SITE DETAIL PLAN FOR PLAYGROUND IN NORTH FARM PARK**

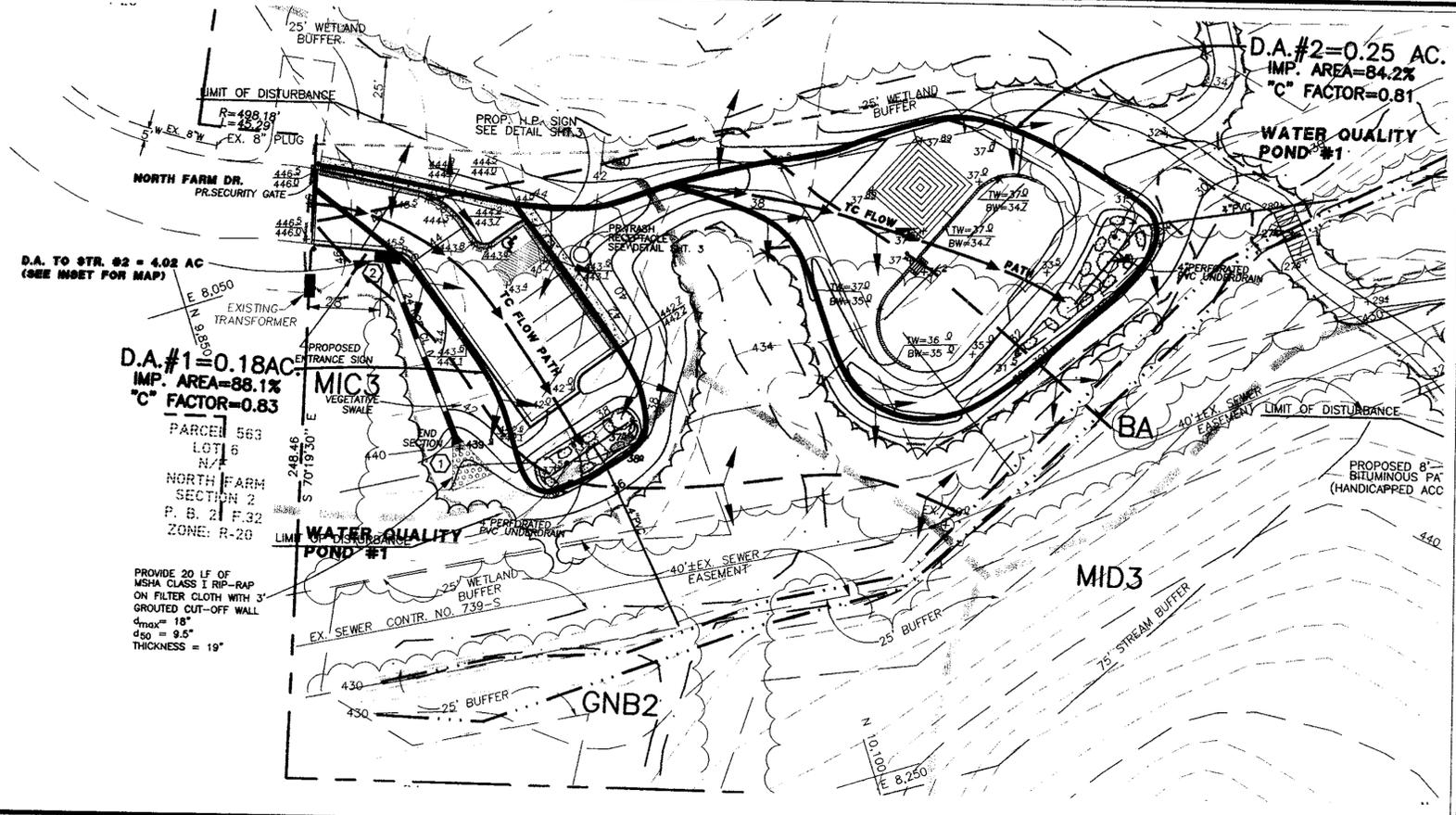
DESIGN BY: PWR SCALE: 1"=30' PROJECT NO.:
DRAWN BY: DATE: OCT. 23, 1997 DRAWING NUMBER:
CHECKED BY: MFW APPROVED: JOHN T. DeBELL PROFESSIONAL ENGR. NO. 12599 SHT 3 OF 10



D.A. = 24.59

D.A. = 4.14 Ac.
(TO STRUCTURE #2)

OFF-SITE DRAINAGE AREA
N.T.S.



D.A. #1 = 0.18 AC
IMP. AREA = 88.1%
"C" FACTOR = 0.83

D.A. #2 = 0.25 AC
IMP. AREA = 84.2%
"C" FACTOR = 0.81

D.A. TO STR. #2 = 4.02 AC
(SEE INSET FOR MAP)

PROVIDE 20 LF OF
MSHA CLASS I RIP-RAP
ON FILTER CLOTH WITH 3"
GROUTED CUT-OFF WALL
d_{max} = 18"
d₅₀ = 9.5"
THICKNESS = 19"

LEGEND

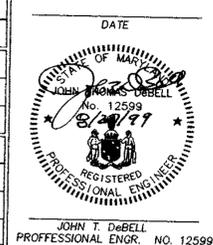
- EXISTING DRAINAGE DIVIDE
 - PROPOSED DRAINAGE DIVIDE
 - TIME OF CONCENTRATION (Tc) FLOW PATH
- GNB2
BA
- SOILS**

LONGEST FLOW TO WQ#1 = 135 FEET
Tc = 0.023
RCN = 98

LONGEST FLOW TO WQ#2 = 145 FEET
Tc = 0.023
RCN = 98

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART		
SUBMISSION NAME	SECTION/AREA	LOT/PARCEL #
N/A	N/A	P566
PLAT # OR LOT #	BLOCK #	ZONING
1394/040	B	R-20
TAX MAP	ELECT. DIST.	CENSUS TRACT
17	2ND	6021
WATER CODE	SEWER CODE	
H03	5758000	



DATE:	NUMBER:	REVISION DESCRIPTION:

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John T. DeBell 12/1/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hamilton 12/16/97
CHIEF, DIVISION & LAND DEVELOPMENT DATE

Angela Smith 12/16/97
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

OWNER: CLARA COUNY FAX NO: (410) 313-4646

A. NAME: CLARA COUNY B. DAYTIME TELEPHONE: (410) 313-4640

C. COMPANY: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS

D. ADDRESS: 7120 OAKLAND MILLIS ROAD

E. CITY: COLUMBIA STATE: MD. ZIP: 21046

DEVELOPER: RONALD LEPSON FAX NO: (410) 313-3435

A. NAME: RONALD LEPSON B. DAYTIME TELEPHONE: (410) 313-3430

C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

D. ADDRESS: 3450 COURTHOUSE DRIVE

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OFFICE LOCATIONS:
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• FAIRFAX COUNTY, VIRGINIA • MONTGOMERY COUNTY, VIRGINIA • LOUDOUN COUNTY, VIRGINIA

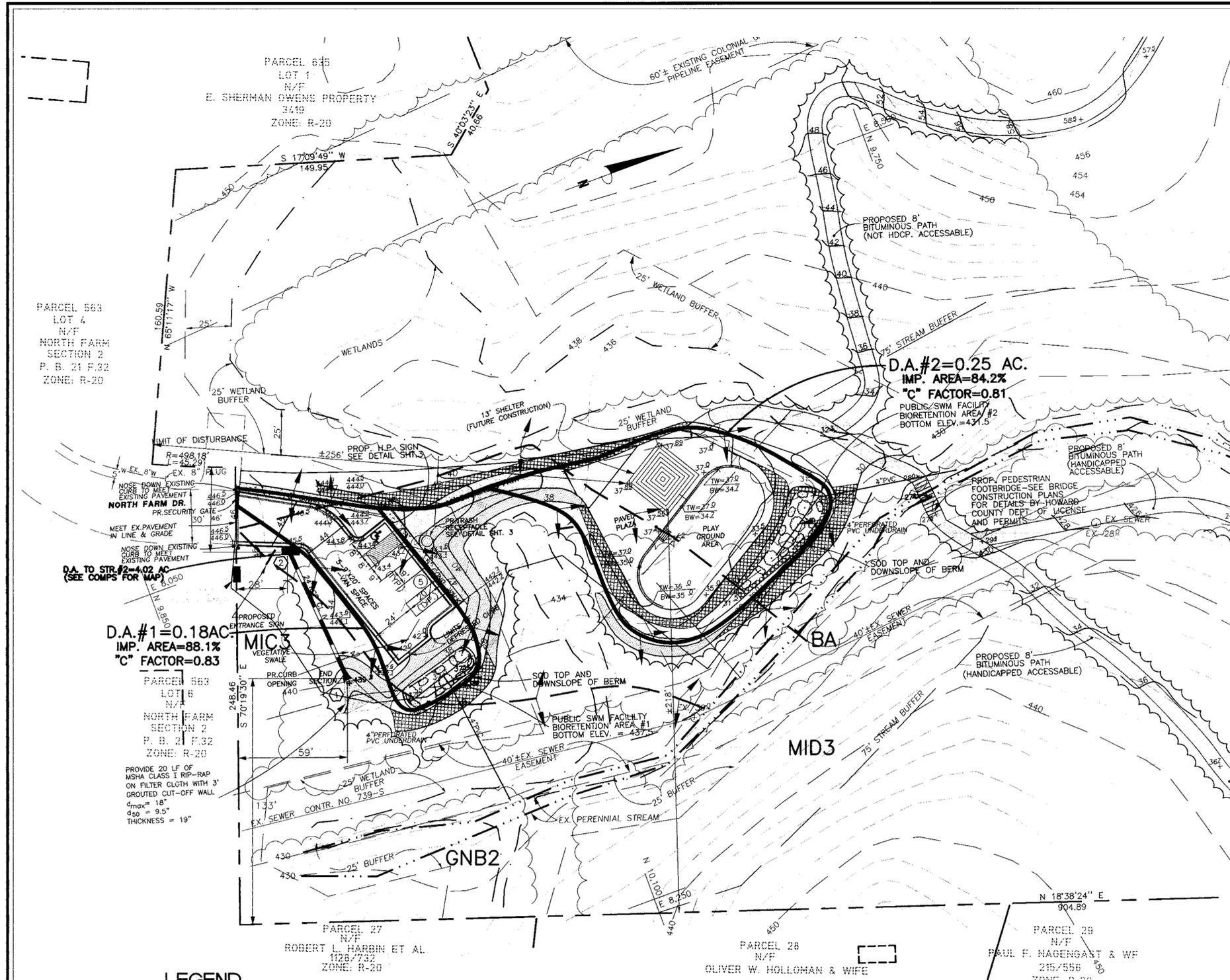
CENSUS TRACT NO. 6021

LIBER/FOID 1394/040
TAX MAP 17 PARCEL 566

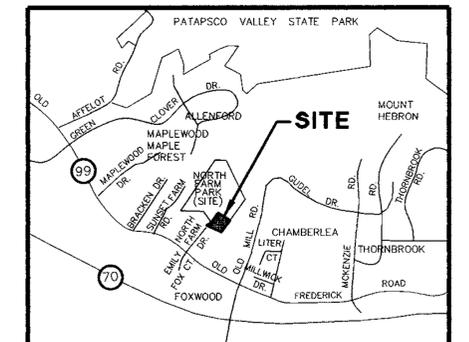
TITLE: **DRAINAGE AREA MAP FOR PLAYGROUND IN NORTH FARM PARK**

DESIGN BY: PWR	SCALE: 1"=30'	PROJECT NO.:
DRAWN BY: KJJ	DATE: OCT. 28, 1997	DRAWING NUMBER:
CHECKED BY: KJJ	APPROVED:	SHT 4 OF 10

SDP 99-120



- BIORETENTION AREA SPECIFICATIONS**
1. THE BIORETENTION AREAS SHALL CONSIST OF A PLANTING SOIL HAVING A COMPOSITION OF AT LEAST 10 TO 25 PERCENT CLAY AND SHALL BE OF A SANDY LOAM OR LOAMY SAND TEXTURE. THE FURNISHED PLANTING SOIL SHALL BE OF UNIFORM COMPOSITION, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN ONE INCH, BRUSH, OR ANY OTHER MATERIAL OR SUBSTANCE WHICH MAY BE HARMFUL TO PLANT GROWTH, OR A HINDERANCE TO PLANTING OR MAINTENANCE OPERATIONS.
 2. ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT FROM THE SOURCE TO THE JOB SITE AND UNTIL PLANTED.
 3. THE GROUND COVER PLANTING HOLES SHALL BE DUG THROUGH THE MULCH WITH ONE OF THE FOLLOWING: HAND TROWEL, SHOVEL, BULB PLANTER, OR HOE.
 4. THE GROUND COVER SHALL BE PLANTED SO THAT THE ROOTS ARE SURROUNDED BY THE SOIL BELOW THE MULCH. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH THE EXISTING GRADE. THE ROOTS OF THE BARE ROOT PLANTS SHALL BE COVERED TO THE CROWN.
 5. UNDERDRAIN TO BE SCHEDULE 40 PVC OR EQUIVALENT.



VICINITY MAP
SCALE: 1"=2000'

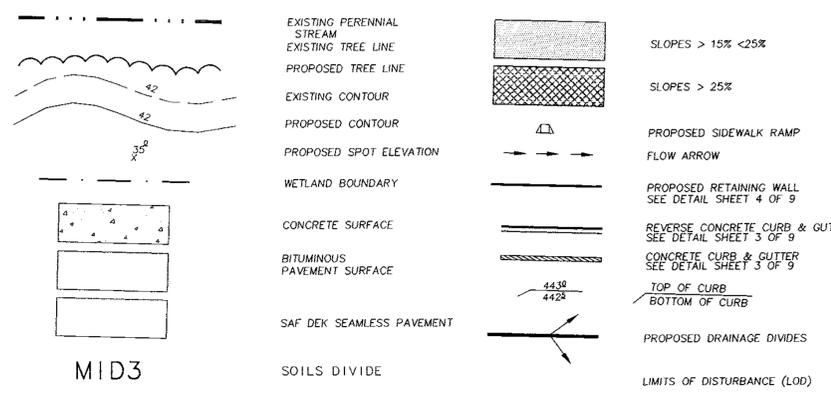
PARCEL 563
LOT 4
N/F
NORTH FARM
SECTION 2
P. B. 21 F.32
ZONE: R-20

PARCEL 565
LOT 1
N/F
E. SHERMAN OWENS PROPERTY
3419
ZONE: R-20

D.A. #1=0.18AC
IMP. AREA=88.1%
"C" FACTOR=0.83

D.A. #2=0.25 AC.
IMP. AREA=84.2%
"C" FACTOR=0.81
PUBLIC SWM FACILITY
BIORETENTION AREA #2
BOTTOM ELEV.=431.5

LEGEND



STRUCTURE SCHEDULE

NO.	TYPE	WIDTH	TOP ELEV.	INV. OUT ELEV.	REMARKS
H.C.DPW	2	A-10	36"	445.5	441.0 DETAIL SD 4.04
H.C.DPW	1	END SECTION	5"	442.4	439.9 DETAIL SD 5.51

PIPE SCHEDULE

SIZE	TYPE	LENGTH (LF)
24"	RCP CL. IV	63.75'

PLANT LIST

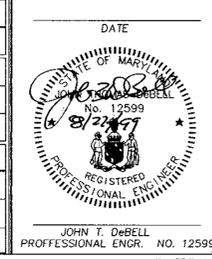
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
RB	7	BETULA NIGRA	RIVER BIRCH	2 1/2" CAL.	B & B
CJ	16	JUNIPERUS COMMUNIS	COMMON JUNIPER	18-24" SPD	12" O.C.

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART

SECTION NAME	NORTH FARM PARK	SECTION/AREA	18.75 ACRES	LOT/PARCEL #	P566
PLAT # OR L.P.	1394/040	BLOCK #	8	ZONING	R-20
TAX MAP	17	ELECT. DIST.	2ND	GENUS TRACT	6021
WATER CODE	HQ3	SEWER CODE	5758000		



DATE: _____ NUMBER: _____ REVISION DESCRIPTION: _____

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John T. DeBell 12/8/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Condy Hamilton 12/6/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

James S. Keith 12/16/99
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

OWNER: _____ FAX NO.: (410) 313-4646

A. NAME: CLARA GOUM B. DAYTIME TELEPHONE: (410) 313-4640

C. COMPANY: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS

D. ADDRESS: 7120 OAKLAND MILLS ROAD

E. CITY: COLUMBIA STATE: MD. ZIP: 21046

DEVELOPER: _____ FAX NO.: (410) 313-3435

A. NAME: RONALD LEPSON B. DAYTIME TELEPHONE: (410) 313-3430

C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

D. ADDRESS: 3450 COURTHOUSE DRIVE

E. CITY: ELLICOTT CITY STATE: MD. ZIP: 21043

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170 ROLLINS AVENUE, ROCKVILLE, MARYLAND 20852
(301) 465-9400

OFFICE LOCATIONS:
★ CHESTERFIELD COUNTY, VIRGINIA ★ PRINCE WILLIAM COUNTY, VIRGINIA ★ MONTGOMERY COUNTY, MARYLAND
★ FAIRFAX COUNTY, VIRGINIA ★ VIRGINIA BEACH, VIRGINIA ★ LOUDOUN COUNTY, VIRGINIA

STORMWATER MANAGEMENT PLAN
FOR PLAYGROUND IN
NORTH FARM PARK

DESIGN BY: CLW SCALE: 1"=30' PROJECT NO.: _____
DRAWN BY: _____ DATE: JAN. 28, 1999 DRAWING NUMBER: _____
CHECKED BY: MFW APPROVED: _____ SHT 5 OF 10

SDP 99-120

SPECIFICATIONS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD PRACTICE NO. 378. ALL REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.

SITE PREPARATION
AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1.

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREES, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE. FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

EARTH FILL
MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6". FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND OUT OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SACRIFICED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTIGUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIERED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +/- 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99.

CUT OFF TRENCH - THE CUTOFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

STRUCTURAL BACKFILL
BACKFILL ADJACENT TO PIPED OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

PIPE CONDUITS

ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.
CORRUGATED METAL PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE:

1. MATERIALS - (STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A WITH WATER TIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. STEEL PIPES WITH POLYMERIC COATINGS SHALL HAVE A MINIMUM COATING THICKNESS OF 0.01 INCH (10 MIL) ON BOTH SIDES OF THE PIPE. THE FOLLOWING COATINGS OR AN APPROVED EQUAL MAY BE USED: NEON, PLASTI-COAT, BLAC-KLAD, AND BETH-CO-LOY. COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENT OF AASHTO M-245 AND M-246.

MATERIALS - (ALUMINUM COATED STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATER TIGHT COUPLING BANDS OR FLANGES. ALUMINUM SURFACES THAT ARE TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER. HOT TIP GALVANIZED BOLTS MAY BE USED FOR CONNECTIONS. THE PH OF THE SURROUNDING SOILS SHALL BE BETWEEN 4 AND 9.

MATERIALS - (ALUMINUM PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATER TIGHT COUPLING BANDS OR FLANGES. ALUMINUM SURFACES THAT ARE TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER. HOT TIP GALVANIZED BOLTS MAY BE USED FOR CONNECTIONS. THE PH OF THE SURROUNDING SOILS SHALL BE BETWEEN 4 AND 9.

2. COUPLING BANDS, ANTI-SEEP COLLARS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AS THE PIPE. METALS MUST BE INSULATED FROM DISSIMILAR MATERIALS WITH USE OF RUBBER OR PLASTIC INSULATING MATERIALS AT LEAST 24 MILS IN THICKNESS.

3. CONNECTIONS - ALL CONNECTIONS WITH PIPED MUST BE COMPLETELY WATER TIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL. ANTI-SEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATER TIGHT. DIMPLE BANDS ARE NOT CONSIDERED TO BE WATER TIGHT.

ALL CONNECTIONS SHALL USE A RUBBER OR NEOPRENE GASKET WHEN JOINING PIPE SECTIONS. THE END OF EACH PIPE SHALL BE RE-ROLLED AN ADEQUATE NUMBER OF CORRUGATIONS TO ACCOMMODATE THE BAND WIDTH. THE FOLLOWING PIPE CONNECTIONS ARE ACCEPTABLE FOR PIPES LESS THAN 24" IN DIAMETER: FLANGES ON BOTH ENDS OF THE PIPE, A 12" WIDE STANDARD LAP TYPE BAND WITH 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET; AND A 12" WIDE HUGGER TYPE BAND WITH O-RING GASKETS HAVING A MINIMUM DIAMETER OF 1/2" GREATER THAN THE CORRUGATION DEPTH. PIPES IN 24" LONG ANNUAL CORRUGATED BAND USING RODS AND LUGS. A 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET WILL BE INSTALLED ON THE END OF EACH PIPE FOR A TOTAL OF 24".

HELICALLY CORRUGATED PIPE SHALL HAVE EITHER CONTINUOUSLY WELDED SEAMS OR HAVE LOCK SEAMS WITH INTERNAL CAULKING OR A NEOPRENE BEAD.

4. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

5. BACKFILLING SHALL CONFORM TO "STRUCTURAL BACKFILL".

6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

REINFORCED CONCRETE PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR REINFORCED CONCRETE PIPE:

1. MATERIALS - REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM DESIGNATION C-361.

2. BEDDING - ALL REINFORCED CONCRETE PIPE CONDUITS SHALL BE LAID IN A CONCRETE BEDDING FOR THEIR ENTIRE LENGTH. THIS BEDDING SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 10% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 3 INCHES, OR AS SHOWN ON THE DRAWINGS.

3. LAYING PIPE - BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM. JOINTS SHALL BE MADE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL. AFTER THE JOINTS ARE SEALED FOR THE ENTIRE LINE, THE BEDDING SHALL BE PLACED SO THAT ALL SPACES UNDER THE PIPE ARE FILLED. CARE SHALL BE EXERCISED TO PREVENT ANY DEVIATION FROM THE ORIGINAL LINE AND GRADE OF THE PIPE. THE FIRST JOINT MUST BE LOCATED WITHIN 2 FEET FROM THE RISER.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

POLYVINYL CHLORIDE (PVC) PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE (PVC) PIPE:

1. MATERIALS - PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.

2. JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATER TIGHT.

3. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

CONCRETE

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 608, MIX NO. 3.

ROCK RIPRAP

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN ONE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919.12.

CARE OF WATER DURING CONSTRUCTION

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPED AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTION OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO Sumps FROM WHICH THE WATER SHALL BE PUMPED.

STABILIZATION

ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION AND SEDIMENT CONTROL

CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.

MAINTENANCE SCHEDULE FOR BIORETENTION AREAS			
DESCRIPTION	METHOD	FREQUENCY	TIME OF THE YEAR
SOIL			
INSPECT AND REPAIR EROSION	VISUAL	MONTHLY	MONTHLY
ORGANIC LAYER			
REMUCLH ANY VOID AREAS	BY HAND	WHENEVER NEEDED	WHENEVER NEEDED
REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER	BY HAND	ONCE EVERY TWO TO THREE YEARS	SPRING
ANY ADDITIONAL MULCH ADDED	BY HAND	ONCE A YEAR	SPRING
PLANTS			
REMOVAL AND REPLACEMENT OF ALL DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT	SEE PLANTING SPECIFICATIONS	TWICE A YEAR	3/15 TO 4/30 AND 10/1 TO 11/30
TREAT ALL DISEASED TREES AND SHRUBS	MECHANICAL OR BY HAND	N/A	VARIES, DEPENDS ON INFEST OR DISEASE INFESTATION
WATERING OF PLANT MATERIAL SHALL TAKE PLACE AT THE END OF EACH DAY FOR FOURTEEN CONSECUTIVE DAYS AFTER PLANTING HAS BEEN COMPLETED	BY HAND	IMMEDIATELY AFTER COMPLETION OF PROJECT	ONCE A YEAR
REPLACE STAKES AFTER ONE YEAR	BY HAND	ONCE A YEAR	ONLY REMOVE STAKES IN THE SPRING
REPLACE ANY DEFICIENT STAKES OR WIRES	BY HAND	N/A	WHENEVER NEEDED

BIORETENTION AREA SIZING CALCULATIONS FOR PLAYGROUND IN NORTH ALLENFORD PARK

BIORETENTION AREA #1:

1. DRAINAGE AREA MULTIPLIED BY "C" COEFFICIENT:
IMPERVIOUS AREA = (5,755 SF)(0.90) = 5,179.5 SF
PERVIOUS AREA = (2,000 SF)(0.35) = 700 SF
TOTAL = 5,879.5 SF

2. BIORETENTION AREA SIZE:
AREA = 7% OF DRAINAGE AREA MULTIPLIED BY "C" COEFFICIENT
AREA = (0.07)(5,879.5 SF)
AREA = 411.57 SF

VOLUME PROVIDED = 646.91 SF

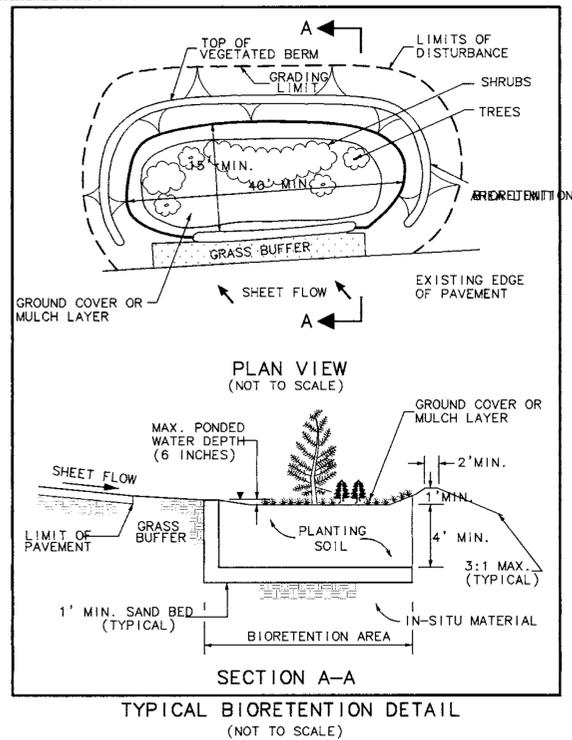
BIORETENTION AREA #2:

1. DRAINAGE AREA MULTIPLIED BY "C" COEFFICIENT:
IMPERVIOUS AREA = (7,300 SF)(0.90) = 6,570 SF
PERVIOUS AREA = (3,500 SF)(0.35) = 1,225 SF
TOTAL = 7,795 SF

2. BIORETENTION AREA SIZE:
AREA = 7% OF DRAINAGE AREA MULTIPLIED BY "C" COEFFICIENT
AREA = (0.07)(7,795 SF)
AREA = 545.7 SF

VOLUME PROVIDED = 1,247.08 SF

BECAUSE THE SIZE OF THE BIORETENTION AREAS ARE SIGNIFICANTLY LARGER THAN THE MINIMUM SIZE REQUIREMENT, THE AREA PROVIDES MORE THAN ENOUGH AREA NEEDED FOR COMPENSATORY MANAGEMENT.



ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	DATE
NORTH FARM PARK	10.75 ACRES	# 566	8/23/99
PLAN # OR LOT	BLOCK #	LENDING #	TAX MAP #
1394/040	8	20	17
ELECT DIST #	CENSUS TRACT		
6021	6021		
WATER CODE	SEWER CODE		
H03	5758000		



DATE	NUMBER	REVISION DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John T. DeBell 12/10/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Cindy Hamilton 10/16/99
CHIEF, DIVISION OF LAND DEVELOPMENT

James S. Smith 12/14/99
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING

OWNER: CLARA GOVIN FAX NO: (410) 313-4646
A. NAME: CLARA GOVIN B. DAYTIME TELEPHONE: (410) 313-4640
C. COMPANY: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
D. ADDRESS: 7120 DAKLAND MILLS ROAD
E. CITY: COLUMBIA STATE: MD ZIP: 21046

DEVELOPER: RONALD LEPSON FAX NO: (410) 313-3435
A. NAME: RONALD LEPSON B. DAYTIME TELEPHONE: (410) 313-3430
C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
D. ADDRESS: 3450 COURTHOUSE DRIVE
E. CITY: ELLICOTT CITY STATE: MD ZIP: 21043

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• CHESTERFIELD COUNTY, VIRGINIA • PRINCE WILLIAM COUNTY, VIRGINIA • HORTONSBURY COUNTY, MARYLAND
• SPOTTSWOOD COUNTY, VIRGINIA • VIRGINIA BEACH, VIRGINIA

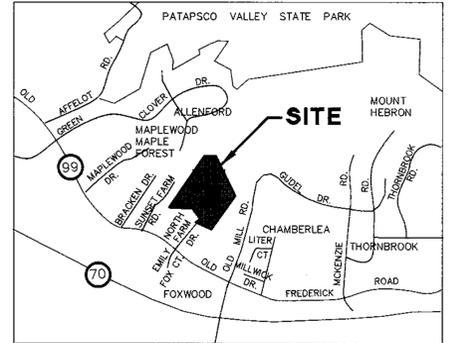
TITLE: **STORMWATER MANAGEMENT NOTES AND DETAILS FOR PLAYGROUND IN NORTH FARM PARK**

DESIGN BY: CLW SCALE: 1" = 30' PROJECT NO:
DRAWN BY: DATE: OCT. 23, 1997 DRAWING NUMBER:
CHECKED BY: MFW APPROVED: SHT 6 OF 10



MATCH LINE SEE SHEET 8

- SEDIMENT CONTROL NOTES
- OBTAIN HOWARD COUNTY GRADING PERMIT.
 - A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (410-992-2437)
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, "STORM DRAINAGE."
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52.) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:
 TOTAL AREA OF SITE 18.75 ACRES
 AREA DISTURBED 0.62 ACRES
 AREA TO BE IMPERVIOUS .24 ACRES
 AREA TO BE VEGETATIVELY STABILIZED 0 ACRES
 TOTAL CUT 500 CU. YDS
 TOTAL FILL 1800 CU. YDS
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. SEDIMENT CONTROL
 - ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - TREE PROTECTION FENCING ALONG PROPOSED BITUMINOUS PATH TO BE DETERMINED IN THE FIELD.



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

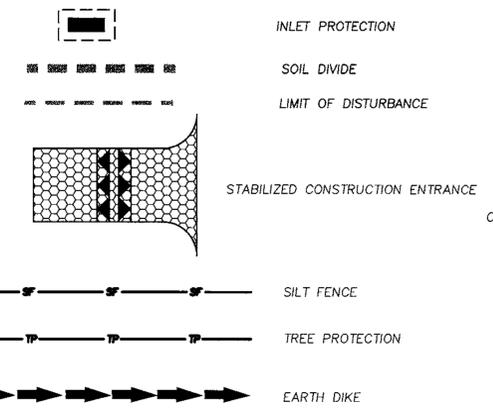
John Thomas DeBell 12/1/99 DATE

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE

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

John R. Kinton 12/1/99 DATE

HOWARD S.C.D.



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.

John Thomas DeBell 11/30/99 DATE

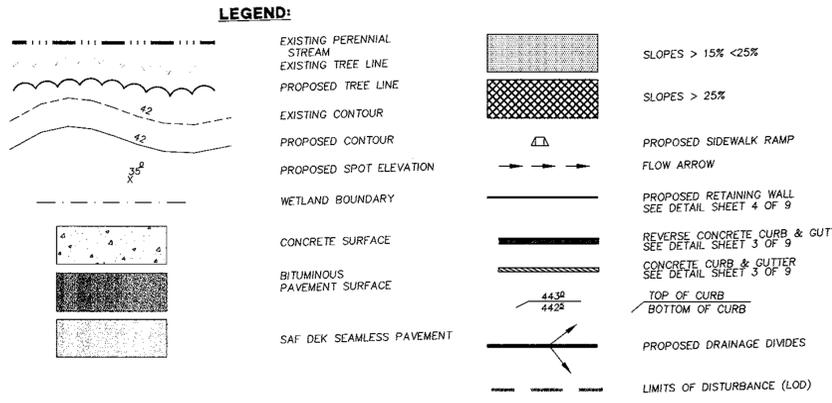
SIGNATURE OF ENGINEER JOHN THOMAS DEBELL 12599

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Ronald Lepson 11/30/99 DATE

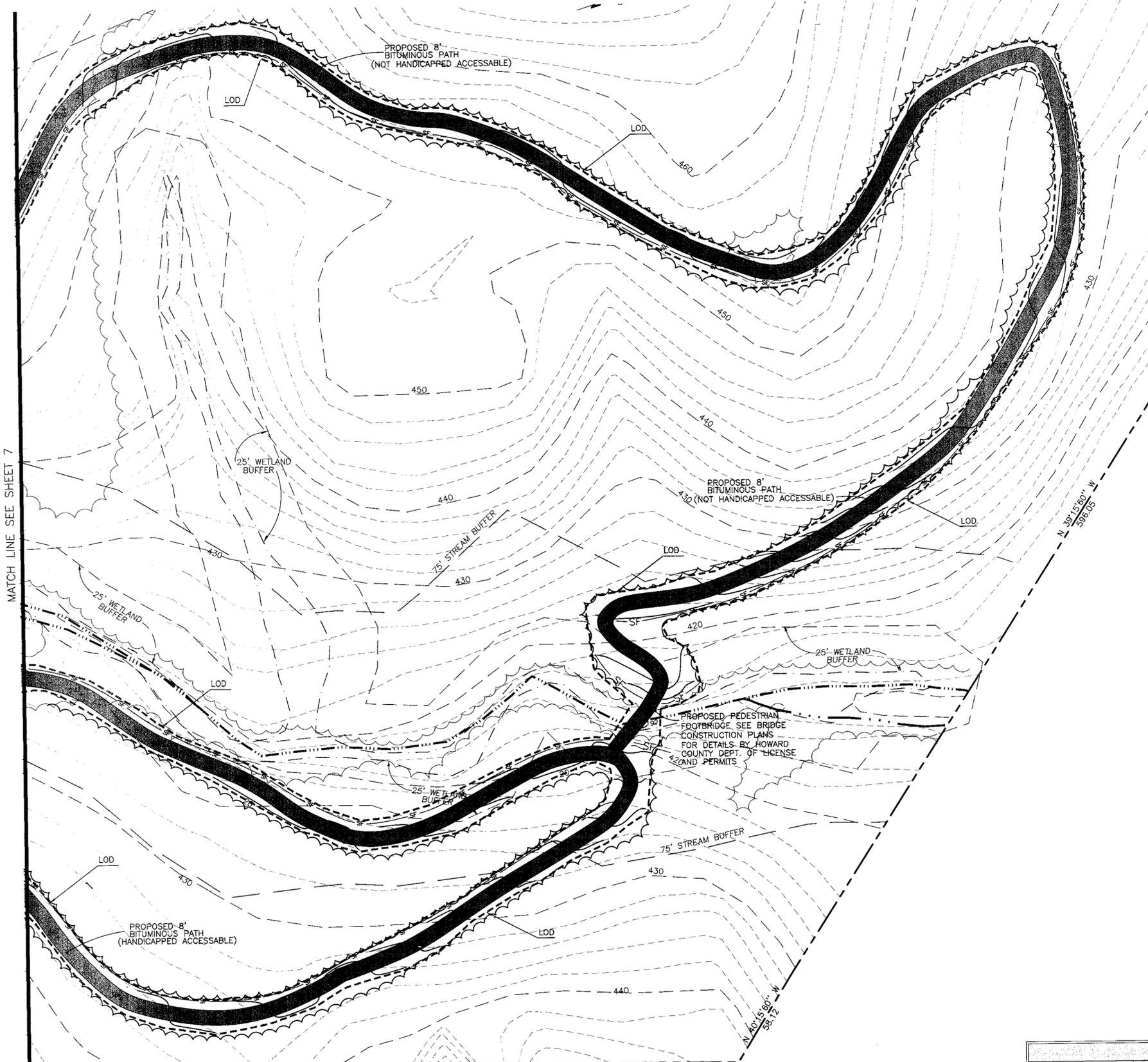
SIGNATURE OF DEVELOPER



ADDRESS CHART		
LOT/PARCEL #	STREET ADDRESS	
PARCEL 566	2523 NORTH FARM DRIVE	
PERMIT INFORMATION CHART		
SUBDIVISION NAME	NORTH FARM PARK	SECTION/AREA 18.75 ACRES
LOT/PARCEL #	P566	
PLAT # OR LIT.	1394/040	BLOCK # 8 ZONING R-20
TAX MAP	17	ELECT DIST 2ND
CENSUS TRACT	6021	
WATER CODE	H03	
SEWER CODE	5758000	



DATE	NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John Thomas DeBell</i>	12/1/99	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION		
<i>Cindy Hamilton</i>	12/16/99	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT		
<i>John S. DeBell</i>	12/16/99	DATE
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING		
OWNER	FAX NO.: (410) 313-4646	
A. NAME: CLARA GOUGH	B. DAYTIME TELEPHONE: (410) 313-4640	
C. COMPANY: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS		
D. ADDRESS: 7120 OAKLAND MILLS ROAD		
E. CITY: COLUMBIA	STATE: MD.	ZIP: 21046
DEVELOPER	FAX NO.: (410) 313-3435	
A. NAME: RONALD LEPSON	B. DAYTIME TELEPHONE: (410) 313-3430	
C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING		
D. ADDRESS: 3450 COURTHOUSE DRIVE		
E. CITY: ELLICOTT CITY	STATE: MD.	ZIP: 21043
BENGTSON, DeBELL & ELKIN, LTD.		
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS		
170 ROLLING AVENUE, ROCKVILLE, MARYLAND 20852 (301) 485-9400		
OFFICE LOCATIONS		
TITLE: EROSION AND SEDIMENT CONTROL PLAN FOR PLAYGROUND IN NORTH FARM PARK		
DESIGN BY: PWR	SCALE: 1"=30'	PROJECT NO.:
DRAWN BY:	DATE: OCT. 23, 1997	DRAWING NUMBER:
CHECKED BY: KJJ	APPROVED:	SHT 7 OF 10



MATCH LINE SEE SHEET 7

REVIEWED FOR HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS.
Clay Simmons 12/17/99 DATE
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE *JDA*

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Kauter 12/17/99 DATE
 HOWARD S.C.D.

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.
John Thomas DeBell 11/30/99 DATE
 SIGNATURE OF ENGINEER JOHN THOMAS DeBELL 12599

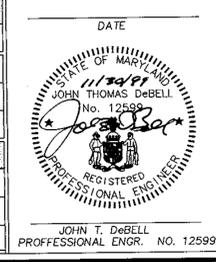
BY THE DEVELOPER
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
Philip L. Lephon 11/30/99 DATE
 SIGNATURE OF DEVELOPER

DATE	NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
		<i>Clay Simmons</i> 12/10/99 DATE
		<i>Clay Simmons</i> 12/10/99 DATE
		<i>John R. Kauter</i> 12/10/99 DATE
		<i>John R. Kauter</i> 12/10/99 DATE

A. NAME: CLARA GOJIN B. DAYTIME TELEPHONE: (410) 313-4646
 C. COMPANY: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS
 D. ADDRESS: 7120 OAKLAND MILLS ROAD
 E. CITY: COLUMBIA STATE: MD. ZIP: 21048
 DEVELOPER
 A. NAME: RONALD LEPHON B. DAYTIME TELEPHONE: (410) 313-3430
 C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
 D. ADDRESS: 3450 COURTHOUSE DRIVE
 E. CITY: ELLICOTT CITY STATE: MD. ZIP: 21043

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	18.75 ACRES	LOT/PARCEL #	P566
PLAT # OR L/F	1394/040	BLOCK #	8	ZONING	R-20
TAX MAP	17	ELECT DIST	2ND	CENSUS TRACT	6021
WATER CODE	HO3	SEWER CODE	5758000		



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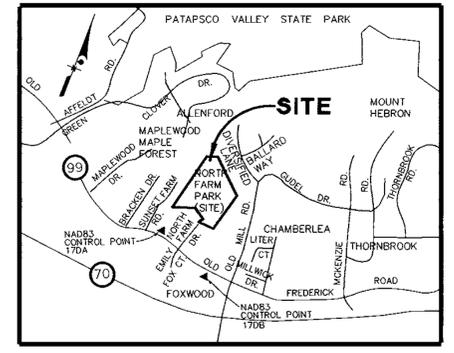
OFFICE LOCATIONS
 • CHESTERFIELD COUNTY, VIRGINIA • PRINCE WILLIAM COUNTY, VIRGINIA • MONTGOMERY COUNTY, MARYLAND
 • FAIRFAX COUNTY, VIRGINIA • VIRGINIA BEACH, VIRGINIA • WASHINGTON COUNTY, VIRGINIA

TITLE: EROSION AND SEDIMENT CONTROL PLAN FOR PLAYGROUND IN NORTH FARM PARK

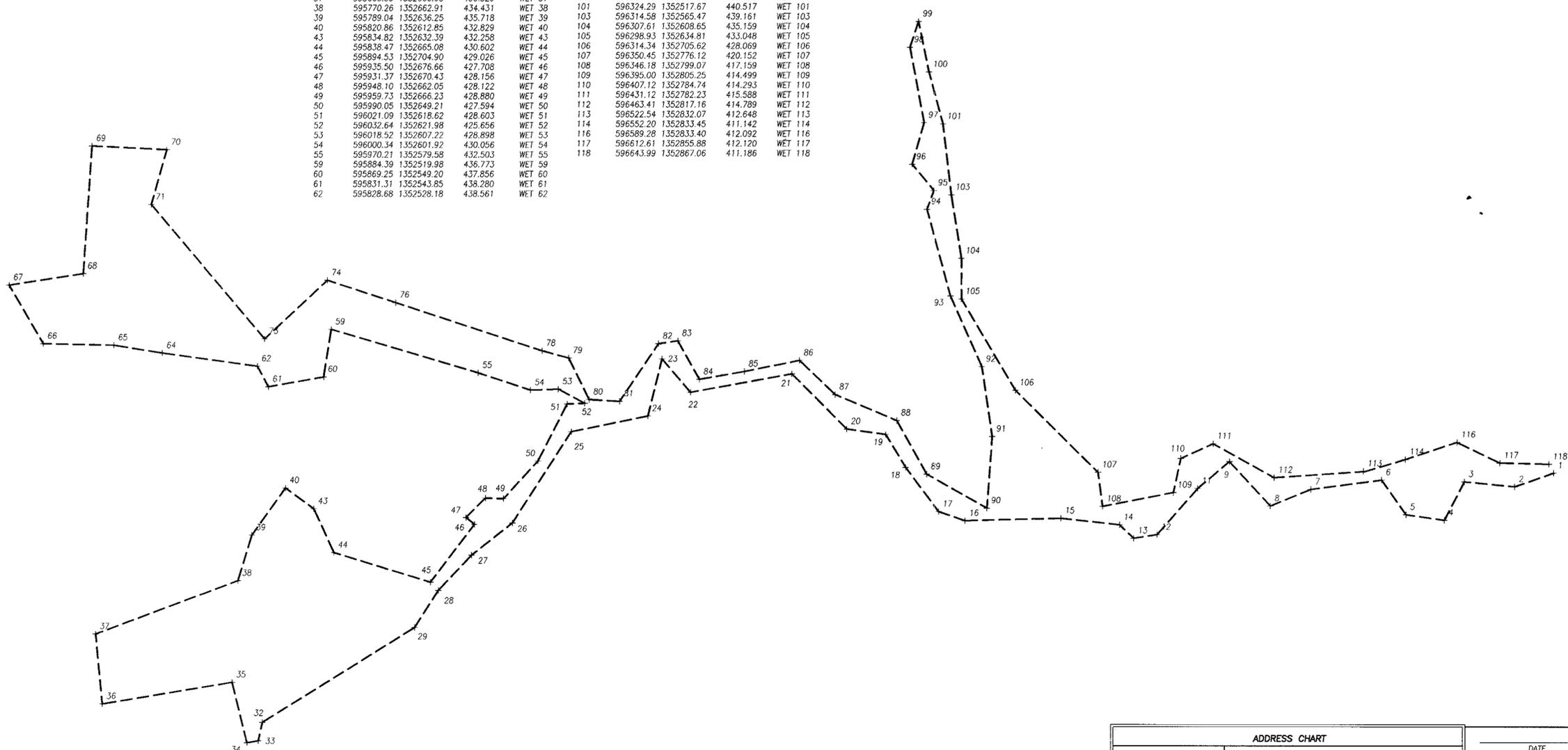
DESIGN BY: PWR SCALE: 1"=30' PROJECT NO.:
 DRAWN BY: DATE: OCT. 28, 1997 DRAWING NUMBER:
 CHECKED BY: MFW APPROVED: SHT 8 OF 10

WETLANDS COORDINATES

NO.	NORTH	EAST	ELEV.	DESC.	NO.	NORTH	EAST	ELEV.	DESC.
1	596645.29	1352873.87	409.040	WET 1	64	595769.82	1352499.33	438.656	WET 64
2	596617.12	1352874.40	411.435	WET 2	65	595740.16	1352483.91	442.300	WET 65
3	596585.69	1352860.43	410.940	WET 3	66	595694.63	1352467.80	445.396	WET 66
4	596564.57	1352881.09	416.635	WET 4	67	595664.97	1352422.54	446.342	WET 67
5	596540.91	1352869.23	415.022	WET 5	68	595735.57	1352431.02	443.805	WET 68
6	596532.50	1352841.66	413.300	WET 6	69	595768.49	1352350.30	447.996	WET 69
7	596484.64	1352832.55	413.559	WET 7	70	595816.16	1352368.71	446.624	WET 70
8	596454.97	1352834.67	411.884	WET 8	71	595794.45	1352400.83	441.768	WET 71
9	596437.86	1352797.23	413.393	WET 9	73	595839.20	1352511.91	439.105	WET 73
11	596411.58	1352807.82	414.757	WET 11	74	595892.34	1352487.43	438.469	WET 74
12	596375.50	1352828.97	418.788	WET 12	76	595931.73	1352516.32	437.003	WET 76
13	596359.51	1352826.42	418.024	WET 13	78	596016.13	1352578.82	431.366	WET 78
14	596353.21	1352814.62	417.294	WET 14	79	596031.95	1352589.25	430.265	WET 79
15	596316.59	1352797.91	416.874	WET 15	80	596036.29	1352620.50	427.488	WET 80
16	596253.98	1352779.05	417.905	WET 16	81	596055.67	1352628.19	425.417	WET 81
17	596238.79	1352767.46	418.229	WET 17	82	596093.17	1352599.10	424.154	WET 82
18	596226.84	1352731.85	420.412	WET 18	83	596106.29	1352601.45	424.115	WET 83
19	596220.92	1352706.27	421.353	WET 19	84	596111.93	1352630.90	423.162	WET 84
20	596196.84	1352694.45	422.344	WET 20	85	596142.81	1352635.47	422.763	WET 85
21	596173.02	1352647.12	422.711	WET 21	86	596180.91	1352640.12	420.677	WET 86
22	596103.45	1352637.55	424.612	WET 22	87	596196.61	1352669.81	423.548	WET 87
23	596092.16	1352609.72	424.111	WET 23	88	596231.04	1352699.73	420.705	WET 88
24	596070.83	1352643.62	426.988	WET 24	89	596239.03	1352740.69	420.598	WET 89
25	596017.85	1352637.39	426.220	WET 25	90	596270.85	1352775.59	416.993	WET 90
26	595960.24	1352683.92	427.562	WET 26	91	596289.50	1352730.40	423.189	WET 91
27	595926.92	1352696.08	428.365	WET 27	92	596297.70	1352683.12	429.367	WET 92
28	595897.95	1352711.86	427.999	WET 28	93	596292.48	1352630.51	433.439	WET 93
29	595874.61	1352730.77	432.315	WET 29	94	596295.76	1352569.54	437.781	WET 94
32	595755.81	1352759.75	433.698	WET 32	95	596304.18	1352598.92	437.434	WET 95
33	595749.25	1352770.84	435.163	WET 33	96	596295.67	1352537.33	438.184	WET 96
34	595741.43	1352769.68	434.805	WET 34	97	596312.35	1352512.84	438.392	WET 97
35	595744.73	1352727.32	433.206	WET 35	98	596319.37	1352460.92	444.936	WET 98
36	595656.00	1352713.65	437.773	WET 36	99	596330.42	1352446.09	445.419	WET 99
37	595666.59	1352666.98	436.329	WET 37	100	596326.39	1352480.94	439.558	WET 100
38	595770.26	1352662.91	434.431	WET 38	101	596324.29	1352517.67	440.517	WET 101
39	595789.04	1352636.25	435.718	WET 39	103	596314.58	1352565.47	439.161	WET 103
40	595820.86	1352612.85	432.829	WET 40	104	596307.61	1352608.65	435.159	WET 104
43	595834.82	1352632.39	432.258	WET 43	105	596298.93	1352634.81	433.048	WET 105
44	595838.47	1352665.08	430.602	WET 44	106	596314.34	1352705.62	428.069	WET 106
45	595894.53	1352704.90	429.026	WET 45	107	596350.45	1352776.12	420.152	WET 107
46	595935.50	1352676.66	427.708	WET 46	108	596346.18	1352799.07	417.159	WET 108
47	595931.37	1352670.43	428.156	WET 47	109	596395.00	1352805.25	414.499	WET 109
48	595948.10	1352662.05	428.122	WET 48	110	596407.12	1352784.74	414.293	WET 110
49	595959.73	1352666.23	428.880	WET 49	111	596431.12	1352782.23	415.588	WET 111
50	595990.05	1352649.21	427.594	WET 50	112	596463.41	1352817.16	414.789	WET 112
51	596021.09	1352618.62	428.603	WET 51	113	596522.54	1352832.07	412.648	WET 113
52	596032.64	1352621.98	425.656	WET 52	114	596552.20	1352833.45	411.142	WET 114
53	596018.52	1352607.22	428.898	WET 53	116	596589.28	1352833.40	412.092	WET 116
54	596000.34	1352601.92	430.056	WET 54	117	596612.61	1352855.88	412.120	WET 117
55	595970.21	1352579.58	432.503	WET 55	118	596643.99	1352867.06	411.186	WET 118
59	595884.39	1352519.98	436.773	WET 59					
60	595869.25	1352549.20	437.856	WET 60					
61	595831.31	1352543.85	438.280	WET 61					
62	595828.68	1352528.18	438.561	WET 62					

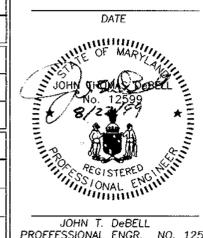


VICINITY MAP
SCALE: 1"=2000'



ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL 566	2523 NORTH FARM DRIVE

PERMIT INFORMATION CHART					
SUBDIVISION NAME	NORTH FARM PARK	SECTION/AREA	18.75 ACRES	LOT/PARCEL #	P566
PLAT # OR L/P	1394/040	BLOCK #	B	ZONING	R-20
TAX MAP	17	ELECT. DIST.	2ND	CENSUS TRACT	6021
WATER CODE	H03	SEWER CODE	5758000		



DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John DeBell</i>	12/8/99	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	5	
<i>Cindy Hamatta</i>	12/14/99	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT		
<i>John DeBell</i>	12/14/99	DATE
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING	65	
OWNER: FAX NO: (410) 313-4646		
A. NAME: CLARA GOJIN	B. DAYTIME TELEPHONE: (410) 313-4640	
C. COMPANY: HOWARD COUNTY MARYLAND DEPARTMENT OF RECREATION AND PARKS		
D. ADDRESS: 7120 OAKLAND MILLS ROAD		
E. CITY: COLUMBIA	STATE: MD.	ZIP: 21046
DEVELOPER: FAX NO: (410) 313-3435		
A. NAME: RONALD LEPSON	B. DAYTIME TELEPHONE: (410) 313-3430	
C. COMPANY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING		
D. ADDRESS: 3450 COURTHOUSE DRIVE		
E. CITY: ELLICOTT CITY	STATE: MD.	ZIP: 21043
BENGTSON, DeBELL & ELKIN, LTD.		
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170 ROLLINS AVENUE, ROCKVILLE, MARYLAND 20852		
(301) 459-9400		
OFFICE LOCATIONS:		
• CHESTERFIELD COUNTY, VIRGINIA		
• FARMAS COUNTY, VIRGINIA		
• FREDERICK COUNTY, MARYLAND		
• LOUDOUN COUNTY, VIRGINIA		
• WISCONSIN COUNTY, VIRGINIA		
• WISCONSIN COUNTY, VIRGINIA		
TITLE: WETLANDS DELINEATION		
NORTH FARM PARK		
DESIGN BY: PWR	SCALE: 1"=40'	PROJECT NO.:
DRAWN BY:	DATE: OCT. 28, 1997	DRAWING NUMBER:
CHECKED BY: KJJ	APPROVED:	SHT 10 OF 10

SDP 99-120