COORDINATES			
POINT	NORTH	EAST	DESCR.
1	478,506.210	827,843.159	EX. CURB & GUTT. CORNR
2	478,554.697	827,894.621	P.C.
3	478,559.355	827,923.402	P.T.
4	478,491.914	828,068.613	EX. CURB & GUTT. CORNR.
5	478,508.753	827,969.847	PROP. BLDG. CORNR
6	478,498.784	827,991.312	PROP. BLDG. CORNR.
7	478,495.577	827,908.786	EX. CURB & GUTT.

COORDINATES HEREON ARE BASED ON HOWARD CO. HORIZONTAL CONTROL NOS.

	N	E
2039001	: 477,614.342	828,108.318
2039002	: 477,493.563	823,043.326
2039003	: 477,222.641	830,705.905
2139005	: 481,233.128	830,424.775

SITE EVALUATION

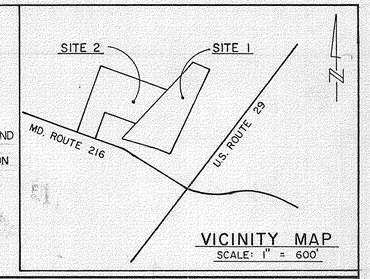
AREA OF PARCEL : SITE 1: 5.75 AC.
SITE 2: 4.75 AC.
PRESENT ZONING : R
PROPOSED USE : GOVERNMENT FACILITIES
FLOOR SPACE : PHASE I : 28,240 S.F.
PHASE II : 21,891 S.F.
OCCUPANT LOAD : PHASE I : 251
PHASE II : 141
* NUMBER OF PARKING SPACES REQUIRED : PHASE I : 141
PHASE II : 110
251
NUMBER OF PARKING SPACES PROVIDED : SITE 1 : PHASE I : 171 **
PHASE II : 9
SITE 2 : PHASE II : 206
TOTAL = 272 PARK. SPACES
NUMBER OF PARKING SPACES REMOVED : SITE 1 : PHASE II : 50
SITE 2 : PHASE II : 29
GREEN SPACE TO REMAIN ON SITE : SITE 1 : 2.55 AC. AND 44.3% OF GROSS AREA
SITE 2 : 2.66 AC. AND 56.0 % OF GROSS AREA
PAVED PARKING : SITE 1 : 2.23 AC. AND 38.8 % OF GROSS AREA
SITE 2 : 1.86 AC. AND 39.2 % OF GROSS AREA
BUILDING COVERAGE ON SITE : SITE 1 : PHASE I : 0.70 AC.
PHASE II : 0.27 AC.
0.97 AC. AND 16.9 % OF GROSS AREA
SITE 2 : PHASE II : 0.23 AC. AND 4.8% OF GROSS AREA

* 1 SPACE PER 200 S.F. OF FLOOR AREA
** 175 SPACES IN ORIGINAL CONTRACT

NOTES :
- PHASE I DEVELOPMENT INFORMATION AS PER SDP-91-100
- BUILDING ADDITION UNDER PHASE II WILL HOUSE OFFICES, STORAGE, VEHICLE SEARCH AND K-3 AREAS FOR THE USE OF HOWARD COUNTY POLICE DEPARTMENT.

NOTE:

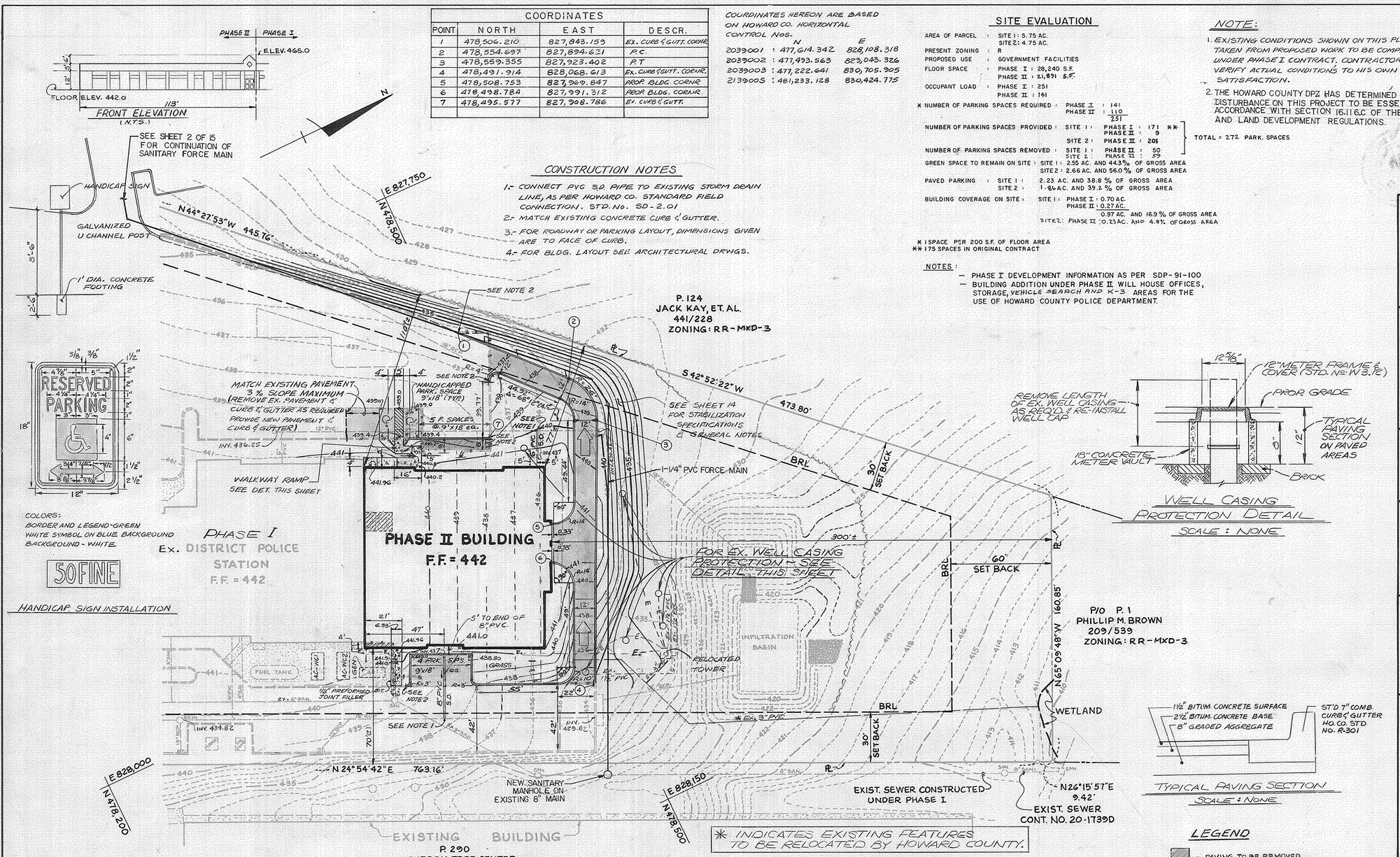
1. EXISTING CONDITIONS SHOWN ON THIS PLAN WERE TAKEN FROM PROPOSED WORK TO BE COMPLETED UNDER PHASE I CONTRACT. CONTRACTOR TO VERIFY ACTUAL CONDITIONS TO HIS OWN SATISFACTION.
2. THE HOWARD COUNTY DPZ HAS DETERMINED THE WETLAND DISTURBANCE ON THIS PROJECT TO BE ESSENTIAL IN ACCORDANCE WITH SECTION 16.116.C. OF THE SUBDIVISON AND LAND DEVELOPMENT REGULATIONS.



VICINITY MAP
SCALE: 1" = 600'

CONSTRUCTION NOTES

1.- CONNECT PVC S.D. PIPE TO EXISTING STORM DRAIN LINE, AS PER HOWARD CO. STANDARD FIELD CONNECTION. STD. No. SD-2.01
2.- MATCH EXISTING CONCRETE CURB & GUTTER.
3.- FOR ROADWAY OR PARKING LAYOUT, DIMENSIONS GIVEN ARE TO FACE OF CURB.
4.- FOR BLDG. LAYOUT SEE: ARCHITECTURAL DRWGS.



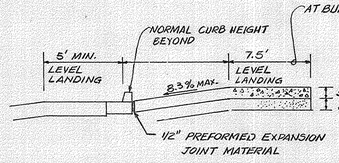
COLORS:
BORDER AND LEGEND-GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE.

50 FINE

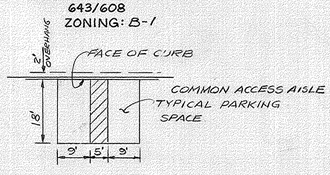
HANDICAP SIGN INSTALLATION

WELL CASING PROTECTION DETAIL
SCALE: NONE

TYPICAL PAVING SECTION
SCALE: NONE



WALKWAY RAMP DETAIL
(N.T.S.)



HANDICAPPED PARKING SPACE DETAIL
N.T.S.

DESIGN CERTIFICATION:

I HEREBY 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 IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HOWARD CONSERVATION DISTRICT.

8/27/93 — DATE
DESIGNER'S SIGNATURE
MD REGISTRATION No. 10989 P.E. R.L.S OR R.L.A.
Kenneth M. Johns — PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT

8/27/93 — DATE
OWNER/DEVELOPER SIGNATURE
Danielle Bennett (Chief)
PRINTED NAME AND TITLE

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

COUNTY HEALTH OFFICER — 3-8-94 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — 3/24/94 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 3/24/94 DATE

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

DIRECTOR — 2/25/94 DATE
CHIEF, BUREAU OF ENGINEERING — 2/25/94 DATE

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

APPROVED: Robert W. Zirkel, P.E. DATE 3/18/94
HOWARD S.C.D.

REVIEWED FOR Howard — HOWARD S.C.D.
NAME

AND MEETS TECHNICAL REQUIREMENTS

Patricia Engler P.E.S. — 3/18/94
SIGNATURE — DATE
U.S. SOIL CONSERVATION SERVICE

LEGEND

- PAVING TO BE REMOVED
- PROPOSED PAVING
- EX. CONCRETE SIDEWALK TO BE REMOVED
- EX. CONC. CURB & GUTTER TO BE REMOVED
- PROPOSED CONCRETE WALKWAY/RAMP
- EXISTING CONC. CURB & GUTTER
- PROPOSED CONC. CURB & GUTTER
- 440 EXISTING CONTOUR
- 440 PROPOSED CONTOUR.
- E EXISTING BURIED ELECT. CABLE ENCASED IN CONCRETE
- E EXISTING BURIED CABLE IN 1" ϕ STEEL RACEWAY

GENERAL NOTES:

1. THE BUILDING PERMIT FOR THE "SPECIALTY VEHICLE BUILDING" MUST BE APPLIED FOR AT DILP WITHIN ONE YEAR FROM THE APPROVAL DATE OF THIS REDLINE REVISION.
2. THE FOREST CONSERVATION REQUIREMENTS WERE PREVIOUSLY ADDRESSED UNDER SDP-93-66 FOR THIS SITE. THE PROPOSED BUILDING AND LIMIT OF DISTURBANCE IS CONTAINED WITHIN THE EXISTING LOD AREA WITH NO ADDITIONAL REQUIREMENT.

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
	11226 SCAGGSVILLE ROAD (MD. RT. 216)

SDP-93-66

SUBDIVISION NAME			SECT/AREA	LOT/PARCEL	
HO. CO. PUBLIC SAFETY COMPLEX				P-124 & P-288	
PLAT No. OR L/F	BLOCK No.	ZONE	TAX/ZON. MAP	ELE. DIST.	CENSUS TR
441/228 161/182	4	RR MXD3	46	5	6051.02
WATER CODE			SEWER CODE		
E20			7690000		

SITE 1

REVISED SITE DEVELOPMENT PLAN

2 OF 56

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia MD, 21045 (301) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

SEAL: STATE OF MARYLAND — ROBERT W. ZIRKEL — No. 19149 — REGISTERED PROFESSIONAL ENGINEER

STATE OF MARYLAND — DOMINICK W. COLUCCIO — NO. 17243 — REGISTERED PROFESSIONAL ENGINEER — 8/20/07

REVISIONS
1 07/09/07 ADDED SEWER LINE AND REVISED CHART

HOWARD COUNTY
PUBLIC SAFETY COMPLEX — PHASE II

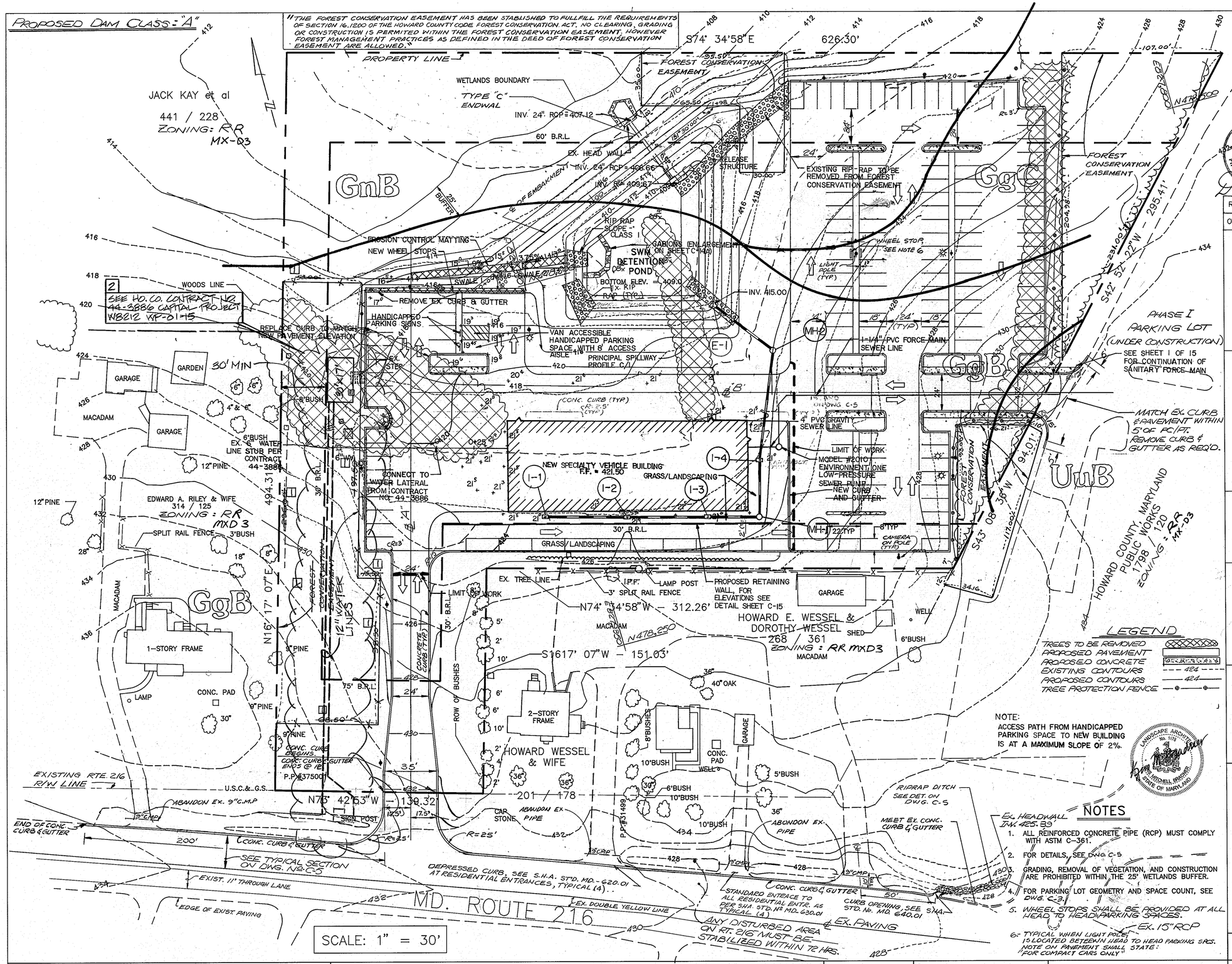
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

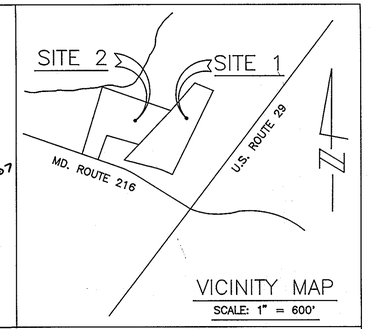
CAPITAL PROJECT NO. C - 0227
DATE: 08-25-93
DRAWING NO. C-1 of 14

SDP 93-66

PROPOSED DAM CLASS: "A"

"THE FOREST CONSERVATION EASEMENT HAS BEEN STABLISHED TO FULLFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED."





VICINITY MAP
SCALE: 1" = 600'

REVISION	
07/09/07	ADDED AS BUILT FEATURES, NEW, SEWER LINE AND WATER LINE.

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME, BELOW SIGNATURE) Kenneth M Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W. Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94
CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

LEGEND

- TREES TO BE REMOVED
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- EXISTING CONTOURS — 424
- PROPOSED CONTOURS — 424
- TREE PROTECTION FENCE

NOTE:
ACCESS PATH FROM HANDICAPPED PARKING SPACE TO NEW BUILDING IS AT A MAXIMUM SLOPE OF 2%.

NOTES

1. ALL REINFORCED CONCRETE PIPE (RCP) MUST COMPLY WITH ASTM C-361.
2. FOR DETAILS, SEE DWG C-5
3. GRADING, REMOVAL OF VEGETATION, AND CONSTRUCTION ARE PROHIBITED WITHIN THE 25' WETLANDS BUFFER.
4. FOR PARKING LOT GEOMETRY AND SPACE COUNT, SEE DWG. C-3.
5. WHEEL STOPS SHALL BE PROVIDED AT ALL HEAD TO HEAD PARKING SPACES.
6. TYPICAL WHEN LIGHT POLE IS LOCATED BETEWIN HEAD TO HEAD PARKING SPCS. NOTE ON PAVEMENT SHALL STATE: "FOR COMPACT CARS ONLY"

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	EBA ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

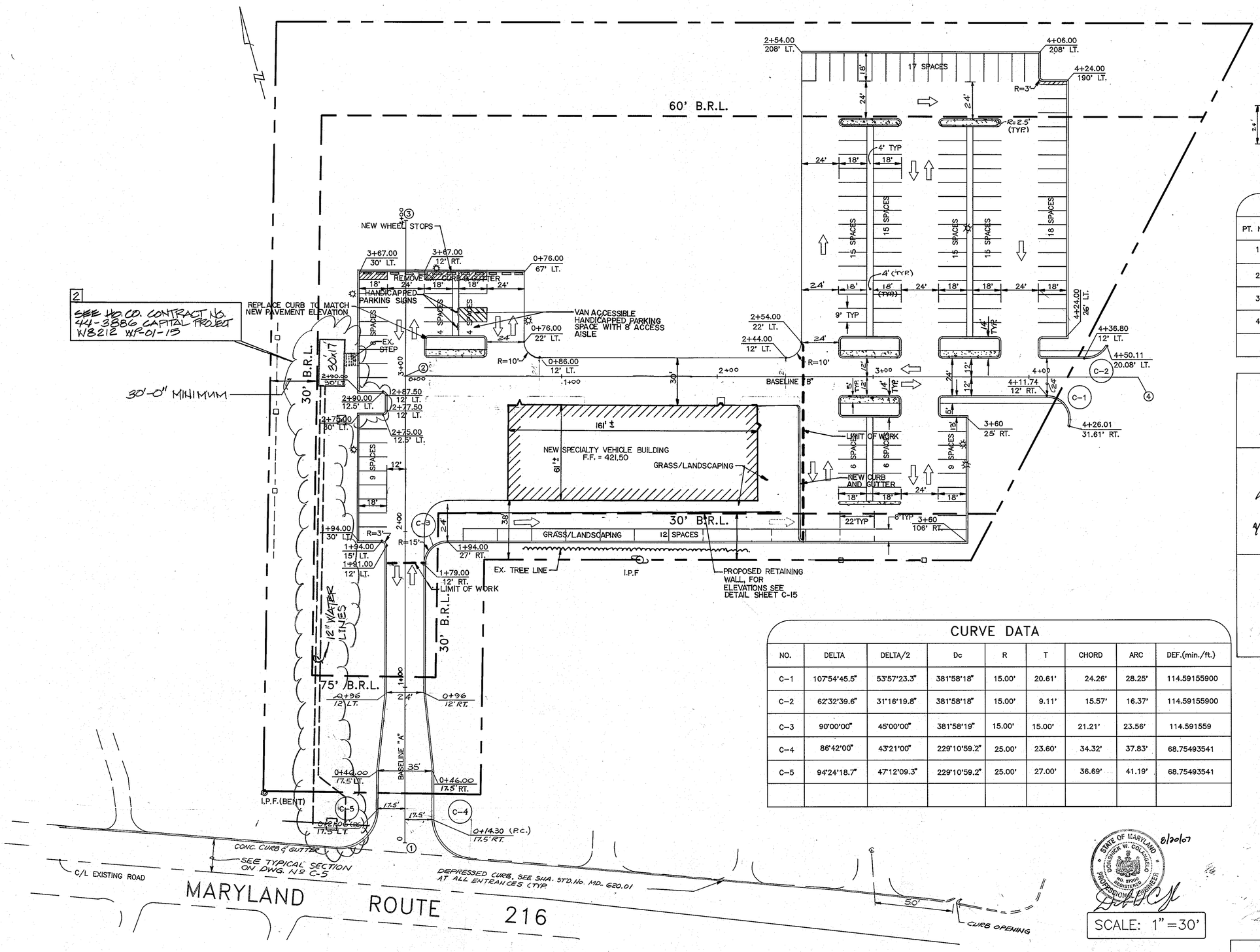
DESIGNED BY: L. CUBAS
DRAWN BY: J. P.
CHECKED BY: K. JOHNS
APPROVED BY:

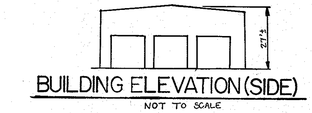
REVISIONS
1 4/4/01 - DELETION OF FOREST CONSERVATION EASEMENT
2 09/05/01 - ADDITION OF BOOSTER PUMPING STATION

SITE PLAN
HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE II
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

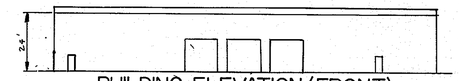
3 OF 56
CAPITAL PROJECT NO.
DATE: 8-25-93
DRAWING NO. C-2 of 14

SDP 93-66





BUILDING ELEVATION (SIDE)
NOT TO SCALE



BUILDING ELEVATION (FRONT)
NOT TO SCALE

COORDINATES

PT. NO.	NORTH	EAST	DESCRIPTION
1	478161.9999	827177.6119	BASELINE A (0+00)
2	478451.2046	827257.3656	INTX. BASELINES A & B
3	478547.6061	827283.9502	BASELINE A (END)
4	478326.2570	827710.4530	BASELINE B (END)

CURVE DATA

NO.	DELTA	DELTA/2	Dc	R	T	CHORD	ARC	DEF.(min./ft.)
C-1	107°54'45.5"	53°57'23.3"	381°58'18"	15.00'	20.61'	24.26'	28.25'	114.59155900
C-2	62°32'39.6"	31°16'19.8"	381°58'18"	15.00'	9.11'	15.57'	16.37'	114.59155900
C-3	90°00'00"	45°00'00"	381°58'19"	15.00'	15.00'	21.21'	23.56'	114.591559
C-4	86°42'00"	43°21'00"	229°10'59.2"	25.00'	23.60'	34.32'	37.83'	68.75493541
C-5	94°24'18.7"	47°12'09.3"	229°10'59.2"	25.00'	27.00'	36.69'	41.19'	68.75493541

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

Joyce M. Boyd HO for F.S. — 3-8-94
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — 3/24/94 DATE

Richard Blood — 3/24/94 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — CAH

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

DIRECTOR — 2/25/94 DATE

CHIEF, BUREAU OF ENGINEERING — 2/25/94 DATE

COORDINATES HEREON ARE BASED ON HOWARD COUNTY HORIZONTAL CONTROL STATION NOS.:

2039001	N 477,614.342	E 828,108.318	ELEV. 447.251
2039002	N 477,493.563	E 829,043.326	ELEV. –
2039003	N 477,222.641	E 830,705.905	ELEV. 400.862
2139005	N 481,233.128	E 830,424.775	ELEV. 375.434

STATE OF MARYLAND — DERRICK W. COLEMAN — No. 27005 — REGISTERED PROFESSIONAL ENGINEER — 8/20/07

SCALE: 1"=30'

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	EBA ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

STATE OF MARYLAND — KENNETH W. JOHNS — No. 10288 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

REVISIONS
2 09/05/01 ADDITION OF BOOSTER PUMPING STATION
3 07/09/07 ADDED AS-BUILT FEATURES AND NEW BUILDING

LAYOUT PLAN

HOWARD COUNTY
PUBLIC SAFETY COMPLEX – PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

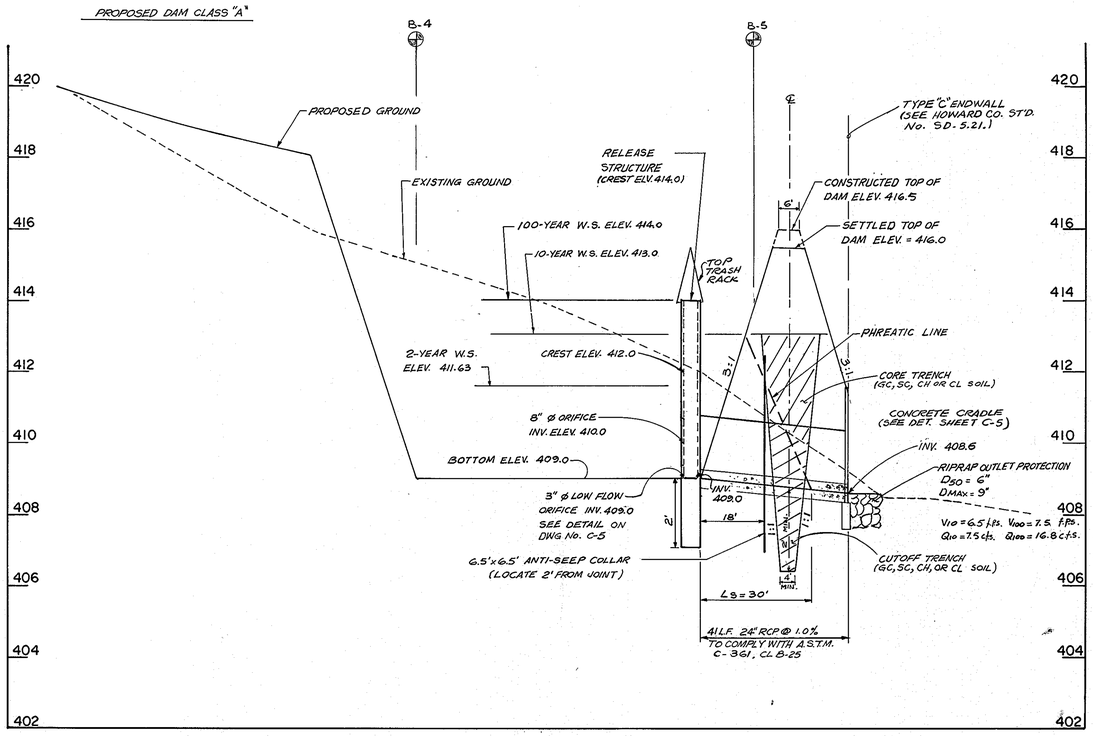
4 OF 56

CAPITAL PROJECT NO.

DATE: 8-25-93

DRAWING NO. C-3 of 14

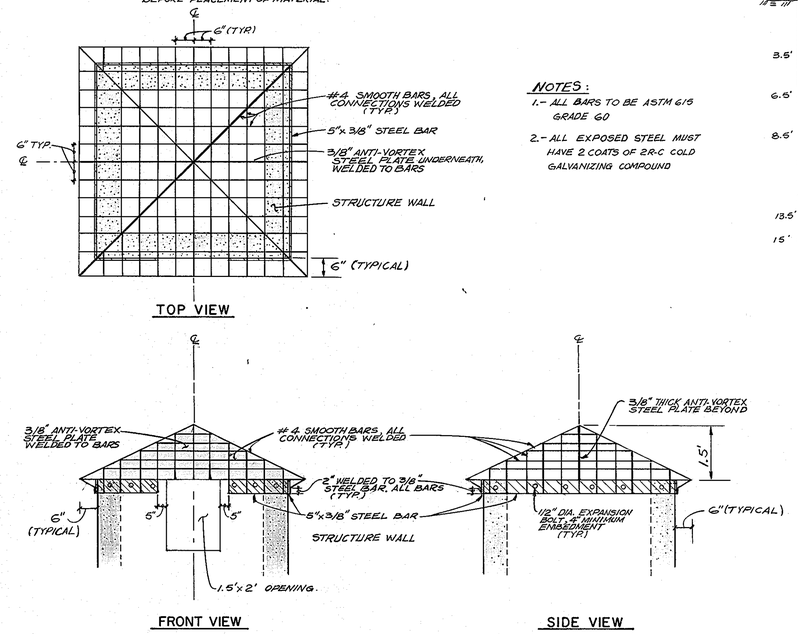
SDP-93-66



PRINCIPAL SPILLWAY PROFILE

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

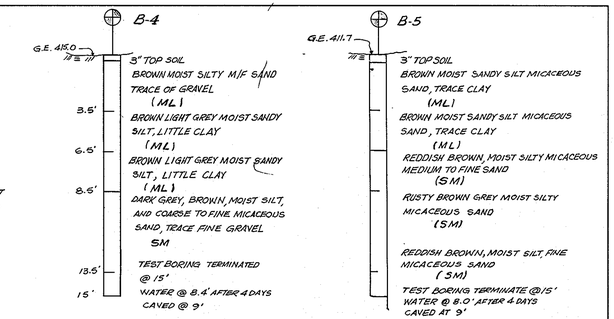
NOTE:
PUMP CORE TRENCH DRY IF WATER IS ENCOUNTERED BEFORE PLACEMENT OF MATERIAL.



NOTES:
1.- ALL BARS TO BE ASTM 615 GRADE 60
2.- ALL EXPOSED STEEL MUST HAVE 2 COATS OF 2R-C COLD GALVANIZING COMPOUND

TOP TRASH RACK DETAIL

SCALE: N.T.S.



DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

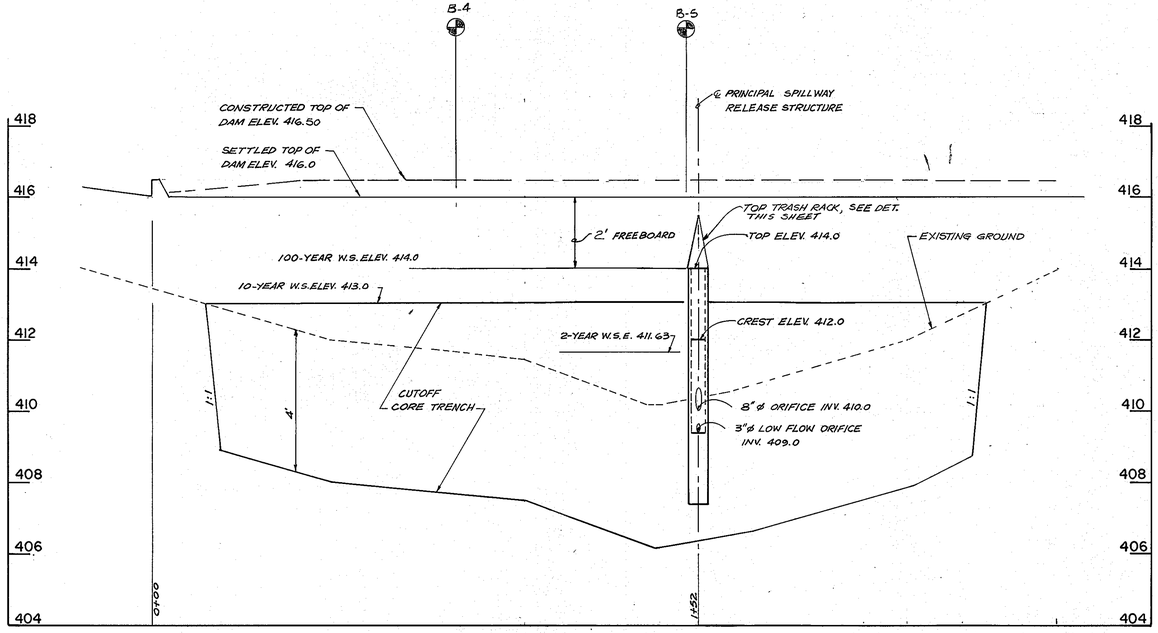
CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

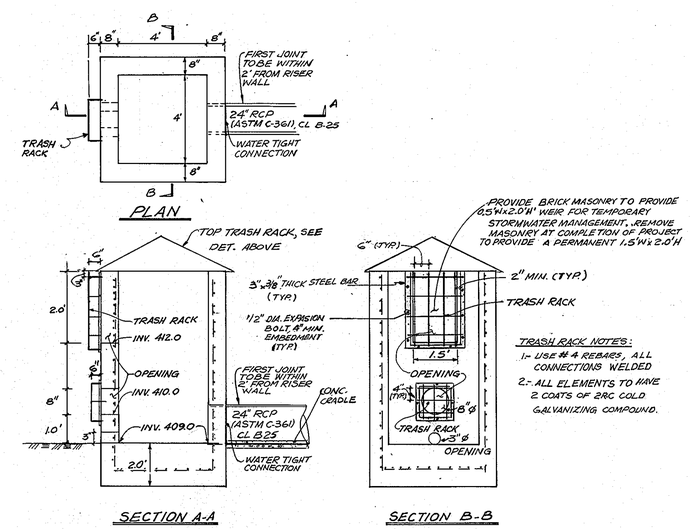
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94



PROFILE ALONG ℄ OF DAM

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'



NOTES: REINFORCING: WALLS: #4 @ 10" o/c. E.W. IN ℄, REINFORCING CONTINUOS AT CORNERS, ALL LAPS 1'-4"
BOTTOM SLAB: #4 @ 10" o/c E.W., MINIMUM CLEARANCE FROM BOTTOM. 3".
CONCRETE: S.H.A. MIX No. 3

RELEASE STRUCTURE DETAIL

(N.T.S.)

STORM WATER MANAGEMENT DETAILS — 5 OF 56

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: EBA ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

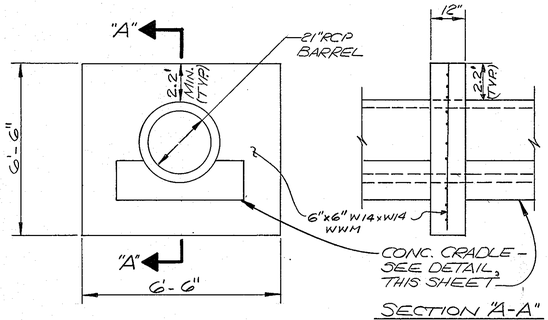
REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX – PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 8-25-93
DRAWING NO. C-4 of 14

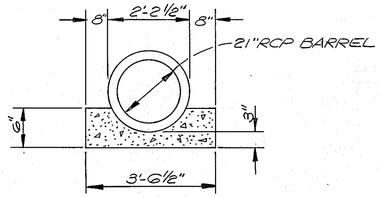
SDP 93-66



SECTION "A-A"

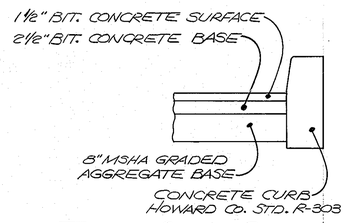
ANTI-SEEP COLLAR

SCALE: NONE



CONCRETE CRADLE DETAIL

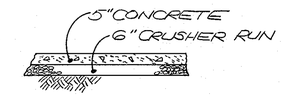
SCALE: NONE



TYPICAL PAVING SECTION

SCALE: NONE

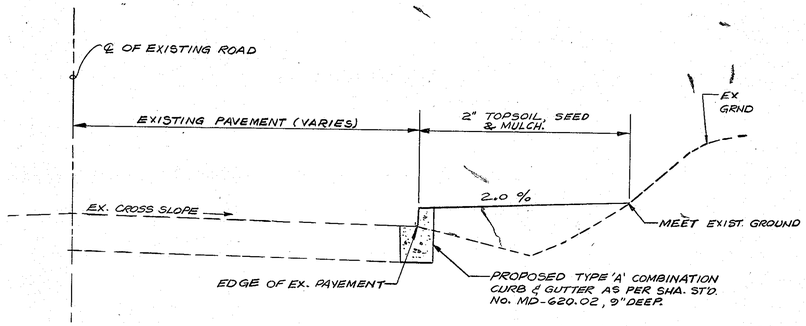
(SITE 2)



CONCRETE ISLAND DETAIL

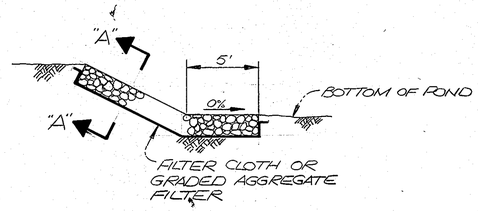
SCALE: NONE

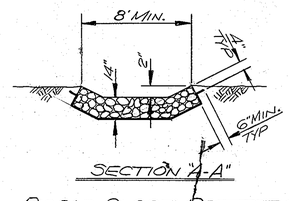
(SITE 2)



TYPICAL SECTION AT MD RTE. 216

(NOT TO SCALE)

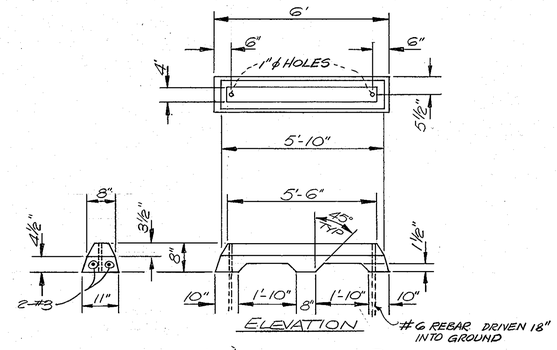




SECTION "A-A"

RIPRAP SLOPE PROTECTION

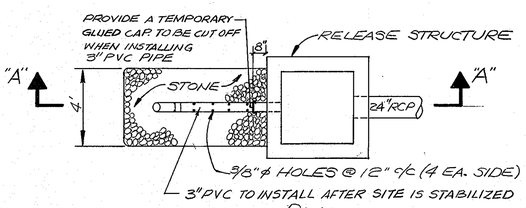
SCALE: NONE



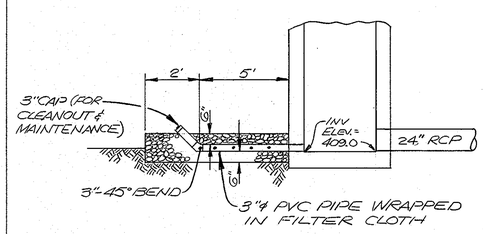
ELEVATION

WHEEL STOP DETAIL

SCALE: NONE



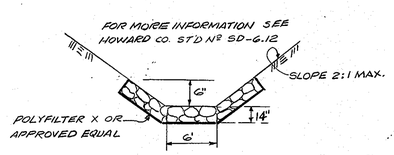
PLAN



SECTION "A-A"

EXTENDED DETENTION LOW-FLOW PIPE

SCALE: NONE

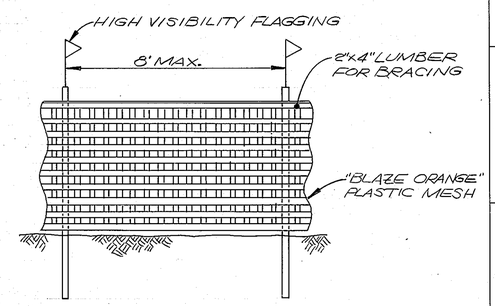


RIPRAP DITCH

SCALE: NONE

NOTES:

1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED & FLAGGED PRIOR TO INSTALLING DEVICE.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
6. DEVICE MUST BE MAINTAINED DURING CONSTRUCTION.
7. ANCHOR POSTS TO BE MIN. 2" STEEL "U" CHANNEL OR 2"x2" TIMBER, 6' LONG. THEY MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF THE POSTS.



TREE PROTECTION DEVICE

SCALE: NONE

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93

(PRINT NAME BELOW SIGNATURE) Kenneth M Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93

(PRINT NAME BELOW SIGNATURE) Daniel W Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

A/CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

MISCELLANEOUS DETAILS

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: EBA ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE II

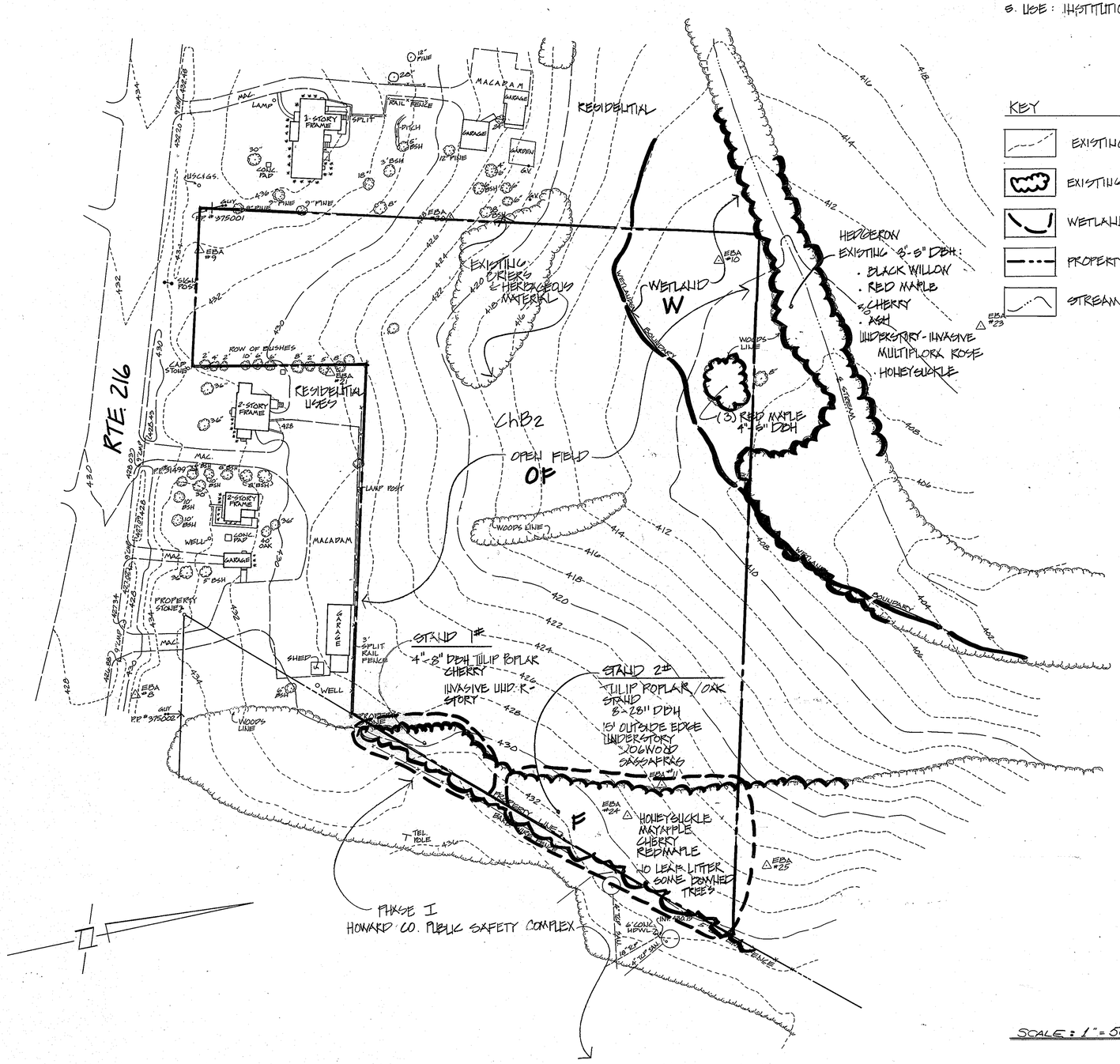
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

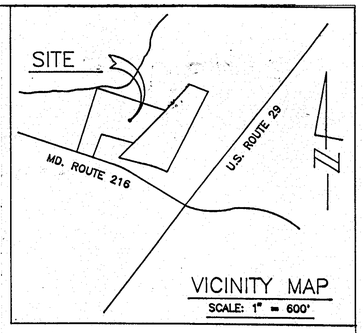
CAPITAL PROJECT NO.
DATE: 8-25-93
DRAWING NO. C-5 of 14

SDP-93-66

SITE DATA

1. TOTAL SITE AREA : 4.79 AC.
2. NET TRACT AREA : 4.79 AC.
3. TOTAL AREA EXISTING IN FOREST : .48 AC.
4. ZONING : RESIDENTIAL
5. USE : INSTITUTIONAL





KEY

- EXISTING CONTOURS
- EXISTING TREE LINE
- WETLAND BOUNDARY
- PROPERTY LINE
- STREAM

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M. Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W. Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

A/ CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/28/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/28/94

SITE 2

PREPARED BY:
HUMAN & ROHDE, INC.
Landscape Architects
110 E. Pennsylvania Avenue
Towson, Maryland 21286
(410) 825-3885

STATE OF MARYLAND — REGISTERED LANDSCAPE ARCHITECT — NO. 353

FOREST STAND DELINEATION

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	EBA ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

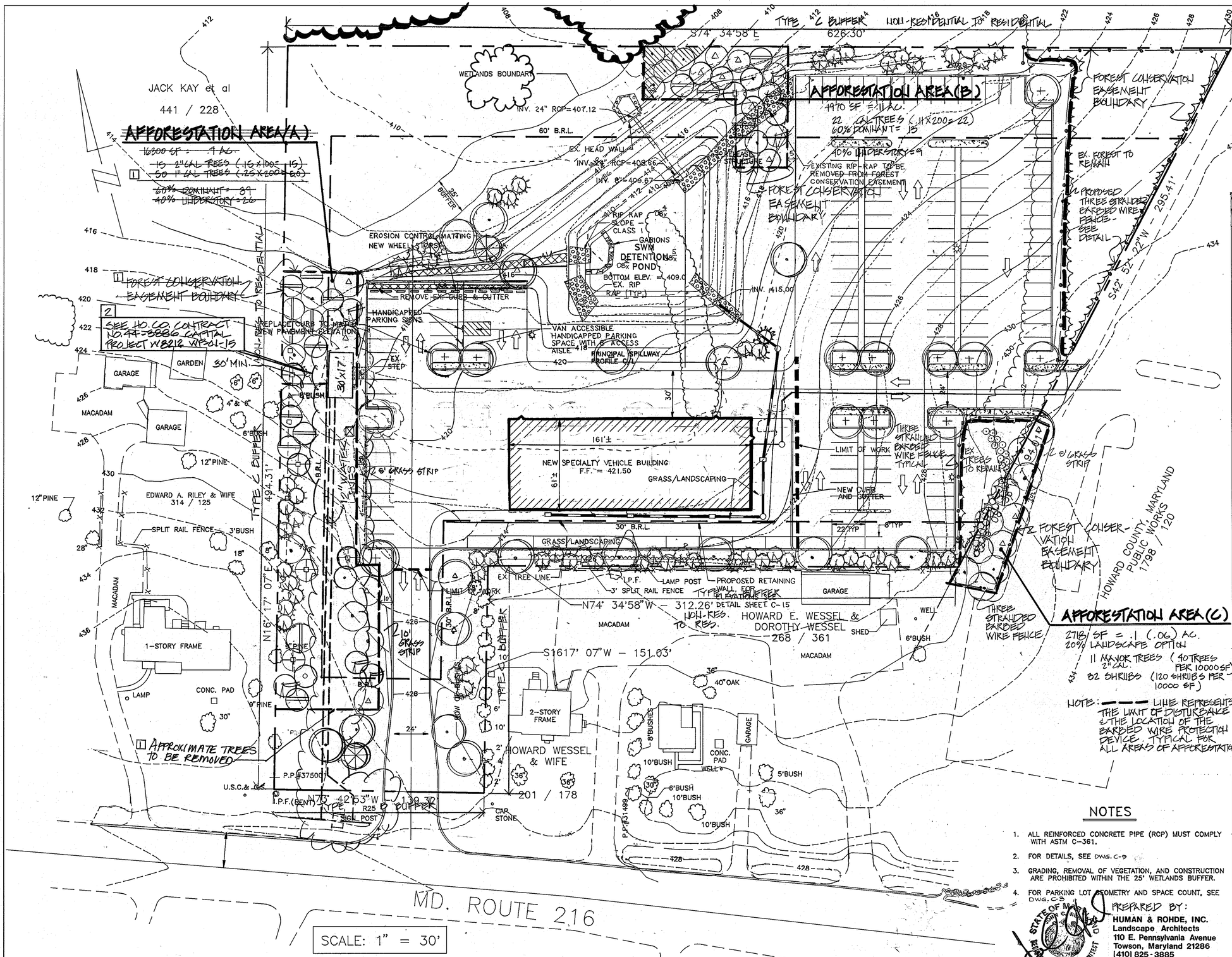
REVISIONS

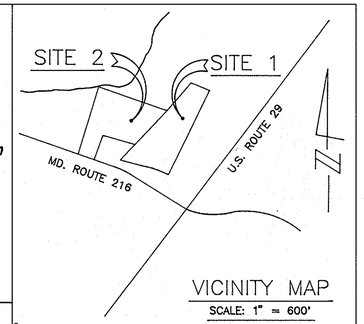
HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 5-5-93
DRAWING NO.
C-6 of 14

SDP-93-66





VICINITY MAP
SCALE: 1" = 600'

REVISION	
07/09/07	ADDED AS-BUILT FEATURES AND NEW BUILDING

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M. Johns

OWNER'S/DEVELOPER'S CERTIFICATION

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SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W. Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94
CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

SITE 2

NOTES

1. ALL REINFORCED CONCRETE PIPE (RCP) MUST COMPLY WITH ASTM C-361.
2. FOR DETAILS, SEE DWG. C-9
3. GRADING, REMOVAL OF VEGETATION, AND CONSTRUCTION ARE PROHIBITED WITHIN THE 25' WETLANDS BUFFER.
4. FOR PARKING LOT GEOMETRY AND SPACE COUNT, SEE DWG. C-3

PREPARED BY:
HUMAN & ROHDE, INC.
Landscape Architects
110 E. Pennsylvania Avenue
Towson, Maryland 21286
(410) 825-3885

FOREST CONSERVATION/LANDSCAPE PLAN — 8 OF 56

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	EBA ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

REVISIONS
REVISED: 7-16-93
1 9/4/01 - DELETION OF AFFORESTATION AREA (A) FOREST CONSERVATION EASEMENT.
2 09/05/01 - ADDITION OF BOOSTER PUMPING STATION

HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 9-10-93
DRAWING NO. C-7 of 14

SDP-93-66

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

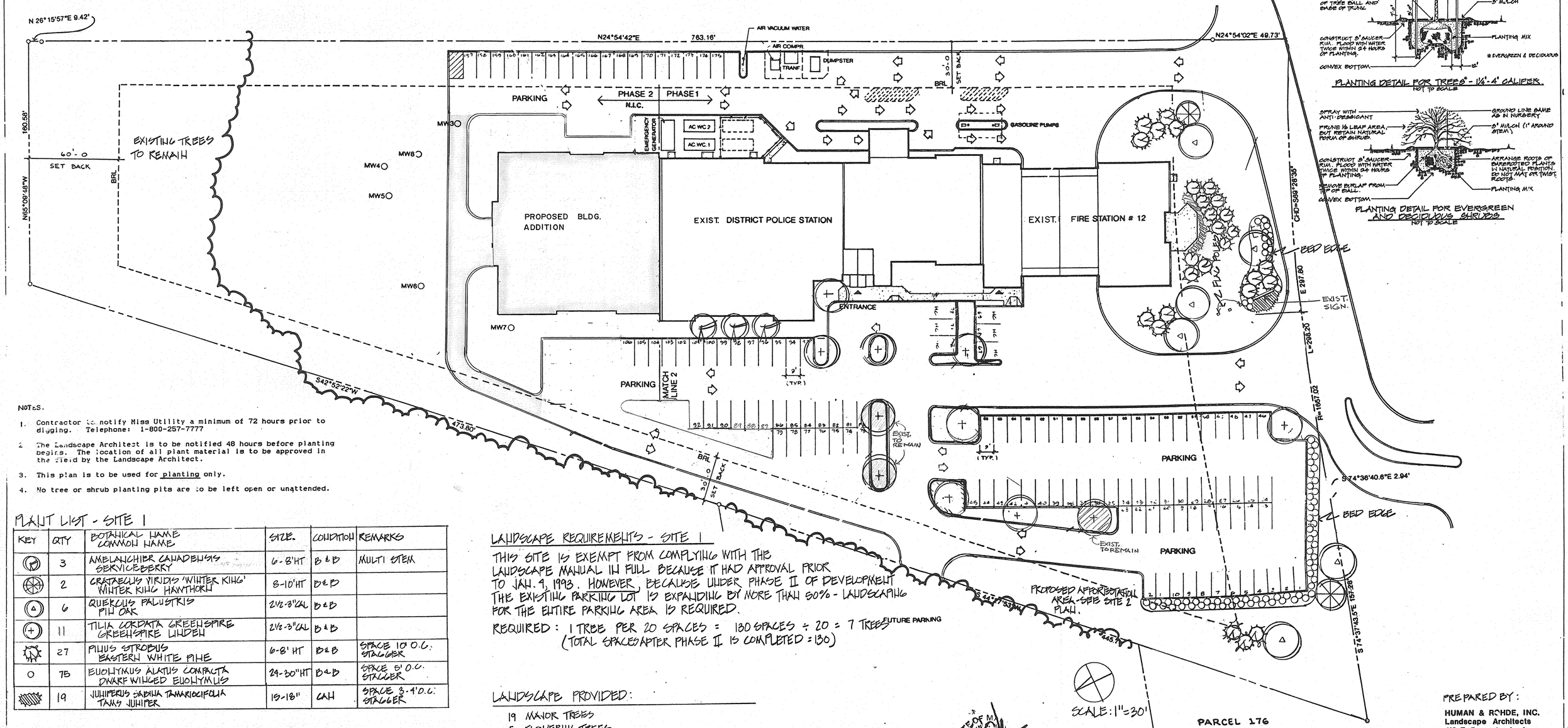
DIRECTOR — DATE 3/24/94

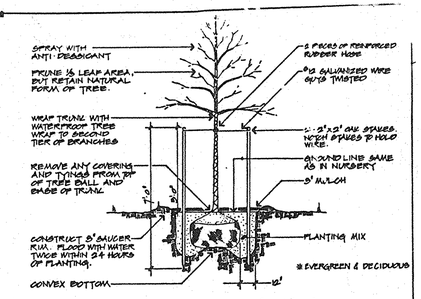
A/CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94





PLANTING DETAIL FOR TREES 6" - 1½" - 4' CALIPER
NOT TO SCALE

PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS
NOT TO SCALE

NOTES.

1. Contractor to notify Miss Utility a minimum of 72 hours prior to digging. Telephone: 1-800-257-7777
2. The Landscape Architect is to be notified 48 hours before planting begins. The location of all plant material is to be approved in the field by the Landscape Architect.
3. This plan is to be used for planting only.
4. No tree or shrub planting pits are to be left open or unattended.

PLANT LIST - SITE 1

KEY	QTY	BOTANICAL NAME COMMON NAME	SIZE.	CONDITION	REMARKS
	3	AMELANCHIER CANADENSIS SERVICEBERRY	6-8'HT	B&B	MULTI STEM
	2	CRATAEGUS VIRIDIS 'WINTER KING' WINTER KING HAWTHORN	8-10'HT	B&B	
	6	QUERCUS PALUSTRIS PIN OAK	2½-3"CAL	B&B	
	11	TILIA CORDATA GREENSPIRE GREENSPIRE LINDEN	2½-3"CAL	B&B	
	27	PINUS STROBUS EASTERN WHITE PINE	6-8' HT	B&B	SPACE 10' O.C. STAGGER
O	75	EUONYMUS ALATUS COMPACTA DWARF WINGED EUONYMUS	24-30"HT	B&B	SPACE 6' O.C. STAGGER
	19	JUNIPERUS SABINA TAMARISCIFOLIA TAMS JUNIPER	15-18"	CAN	SPACE 3-4' O.C. STAGGER

LANDSCAPE REQUIREMENTS - SITE 1

THIS SITE IS EXEMPT FROM COMPLYING WITH THE LANDSCAPE MANUAL IN FULL BECAUSE IT HAD APPROVAL PRIOR TO JAN. 9, 1993. HOWEVER, BECAUSE UNDER PHASE II OF DEVELOPMENT THE EXISTING PARKING LOT IS EXPANDING BY MORE THAN 50% - LANDSCAPING FOR THE ENTIRE PARKING AREA IS REQUIRED.

REQUIRED: 1 TREE PER 20 SPACES = 130 SPACES ÷ 20 = 7 TREES
(TOTAL SPACES AFTER PHASE II IS COMPLETED = 130)

LANDSCAPE PROVIDED:

19 MAJOR TREES
5 FLOWERING TREES
27 EVERGREENS
94 SHRUBS

STATE OF MARYLAND — JOHN A. HOHNE — No. 353 — LANDSCAPE ARCHITECT

PREPARED BY:
HUMAN & ROHDE, INC.
Landscape Architects
110 E. Pennsylvania Avenue
Towson, Maryland 21286
(410) 825-3885

SITE 1 LANDSCAPE PLAN

HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE 2

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

CAPITAL PROJECT NO. C - 0227
DATE: 7-16-93
DRAWING NO. C-8 of 14

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

REVISIONS
This sheet is a revised dwg No. L-L.1 of SDP-91-190
REVISED PER COMMENTS 7-15/7-30

SDP 93-66

PLANT LIST - LANDSCAPE PLAN SITE 2

KEY	QTY.	BOTANICAL NAME / COMMON NAME	SIZE	COND.	REMARKS
	12	ACER RUBRUM RED SUNSET / RED SUNSET MAPLE	21/2-3" CAL	B & B	
	5	QUERCUS PALUSTRIS / PIN OAK	21/2-3" CAL	B & B	
	23	TILIA CORDATA GREENSPIRE / GREENSPIRE LINDEN	21/2-3" CAL	B & B	
	2	CRATAEGUS VIRIDIS 'WINTER KING' / WINTER KING HAWTHORN	8-10' HT	B & B	
	58	PINUS STROBUS / EASTERN WHITE PINE	6-8' HT	B & B	SPACE 10' O.C. STAGGER

[1] PLANT LIST - FOREST CONSERVATION / SITE 2

KEY	QTY.	BOTANICAL NAME / COMMON NAME	SIZE	CONDITION	REMARKS
	~~3~~ 7 / 5 ~~10~~	ACER RUBRUM / RED MAPLE	1" CAL / 2" CAL	B & B	
	~~6~~ 0 / 2 ~~5~~	FRAXINUS PENNSYLVANICA / GREEN ASH	1" CAL / 2" CAL	B & B	
	~~12~~ 6 / 4 ~~#~~	QUERCUS PALUSTRIS / PIN OAK	1" CAL / 2" CAL	B & B	
	~~6~~ 0	LIRIODENDRON TULIPIFERA / TULIP POPLAR	1" CAL	B & B	
	~~12~~ 4	AMELANCHIER CANADENSIS / SERVICEBERRY	1" CAL	B & B	
	~~4~~ 1	OSTRYA VIRGINIANA / IRONWOOD	1" CAL	B & B	
	~~14~~ 4	SASSAFRAS ALBIDUM / SASSAFRAS	1" CAL.	B & B	
	16	LINDERA BENZOIN / SPICEBUSH	18-24"	CAN	SPACE 5' O.C. STAGGER
	16	VIBURNUM DENTATUM / ARROWWOOD VIBURNUM	18-24"	CAN	SPACE 5' O.C. STAGGER

LANDSCAPE REQUIREMENTS / SITE 2

1. NON-RESIDENTIAL TO RESIDENTIAL / TYPE C
   - 1580 LF
   - -165 LF EX. TREES TO REMAIN [1]
   - -440 LF PROPOSED AFFORESTATION * SEE NOTE BELOW
   - 975 LF @ 1T/40LF = 24 TREES
   - 1E/20LF = 49 EVERGREENS
2. NON-RESIDENTIAL TO ROAD / TYPE B
   - 139 LF @ 1T/50LF = 3
   - 1E/40 LF = 4
3. SCREEN SWM. FACILITY / TYPE B
   - 180 LF @ 1T/50 LF = 4
   - 1E/40 LF = 5
4. PROVIDE 1 TREE PER 20 PARKING SPACES
   - 201 ÷ 20 = 10 TREES

TOTAL REQ'D. = 41 TREES
58 EVERGREENS

TOTAL PROVIDED = 41 TREES (2 MINOR)
58 EVERGREENS

SPECIFICATION FOR PLANTING

Plant Identification: All plants shall be properly marked for identification and checking.

List of Plant Materials: The Contractor will verify plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work as shown on the drawings. Substitutions shall not be made without the written approval of the Landscape Architect. This contract will be based on the bidder having verified, prior to bidding, the availability of the required plant materials as specified on the Plant List.

Plant Quality: All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and shall be vigorous, health and of good color. All plants shall be sound, free of plant disease or insect eggs and shall have a healthy normal root system. Plants shall be nursery grown. Plants shall not be pruned prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. All plants including container grown shall conform to the branching, caliber, ball size, height, specifications of the American Standard for Nursery Stock (ANSI Z60.1-1973), and shall have a well-shaped, heavy branch structure for the species. Evergreen trees are to have an internode no greater than 24" and shall be uniformly well-shaped. All plant sizes shall average at least the middle of the range given in the plant list.

Plant Spacing: Plant spacing is to scale on plan or as shown on the Plant List.

Soil Mix: Soil mix will be 2/3 existing soil, 1/3 leafmold or equal organic material, thoroughly mixed and homogenized.

Ball Size: The ball size shall conform to the American Association of Nurserymen's publication entitled American Standard for Nursery Stock, ANSI Z60.1-1973.

Excavation: Holes for all plants shall be 18" larger in diameter than size of ball or container and shall have vertical sides. Hedges shall be planted in a trench 12" wider than ball diameter. Beds for mass planting shall be entirely rototilled to a depth of 8" and shall be 18" beyond the average outside edge of plant balls. Organic material (i.e. Leafmold) will be incorporated into plant beds by tilling again. Proportions of soil to organic material will be 2 parts to 1 part.

Planting: Backfilling shall be done with soil mix, reasonably free of stones, subsoil, clay, lumps, stumps, roots, weeds, bermuda grass, litter, toxic substances, or any other material which may be harmful to plant growth or hinder grading, planting, or maintenance operations. Should any unforseen or unsuitable planting conditions arise such as faulty soil drainage or chemical residues, they should be called to the attention of the Landscape Architect and Owner for adjustments before planting. The plant shall be set plumb and straight and shall be staked at the time of planting. Backfill shall be well worked about the roots and settled by watering. Plants will be planted higher than surrounding grade. Shrubs will be 1" higher and trees will be 3" higher. Remove rope from around tree trunks and lay back burlap from top of all B&B material. Nylon or vinyl rope and/or burlap will be completely removed from all plant material prior to planting.

Transplanting Trees By Tree Machines: Trees shall be moved by machines that provide a minimum of 9" per 1" of tree caliber. Holes are to be dug by the same size machine as the one transporting the plant. The plant material shall be transplanted in approximately the same growing condition as it is presently growing, in terms of soil type and moisture content. Fertilize and guy as described in these plans and specifications.

Cultivation: All trenches and shrub beds shall be cultivated, edged and mulched to a depth of 3" with shredded hardwood bark. The area around isolated plants shall be mulched to at least 6" greater diameter than that of the hole. Plant beds adjacent to buildings shall be mulched to the building wall.

Maintenance: The Contractor shall be responsible during the contract and up to the time of acceptance, for keeping the planting and work incidintal therto in good condition, by replanting, plant replacement, watering, weeding, cultivating, pruning and spraying, restaking and cleaning up and by performing all other necessary operations of care for promotion of good plant growth so that all work is in satisfactory condition at time of acceptance, at no additional cost to the Owner.

Fertilizer: Fertilizer shall be a slow release type contained in polyethelene perforated bags with micropore holes for controlled feeding such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 355, Suffern, New York 10901 or approved equal. The bags shall contain 1 ounce of soluble fertilizer analysis 16-18-16 per unit to last three years and shall be applied during planting as recommended by the manufacturer. If fertilizer packets are not used the Contractor shall apply grandular fertilizer to the soil mix with 10-6-4 analysis, 50% organic, at the following rates: Tree Pits, 2-3 lbs. per caliber inch; Shrub Beds, 3-5 lbs. per 100 sq. ft.; Ground Cover, 2-3 lbs. per 100 sq. ft.

Ground Cover: All areas of ground cover shall be rototilled to a depth of 6". Apply 2" of organic material and rototill until thoroughly mixed. Apply fertilizer as stated above.

Guarantee and Replacement: All material shall be unconditionally guaranteed for two years. The Contractor is responsible for watering but not for losses or damage caused by mechanical injury or vandalism.

[1] NOTE: DUE TO THE WATER BOOSTER STATION INSTALLATION, AFFORESTATION AREA 'A' WAS DISTURBED. AS A RESULT, AREA 'A' HAS BEEN ELIMINATED AS PART OF THIS REDLINE REVISION. A TYPE 'C' LANDSCAPE BUFFER ALONG THE 494 LF PROPERTY LINE IS REQUIRED.

	UNDISTURBED TREES	TYPE 'C' REQUIREMENT	EXTRA
SHADE TREES	30	12	* 18
EVERGREENS	9	25	

* 18 EXTRA SHADE TREES IS EQUIVALENT TO 36 EVERGREENS WHICH EXCEEDS THE REQ'MT

AFFORESTATION REQUIREMENTS / SITE 2

NET TRACT AREA : 4.75 AC
AFFORESTATION MINIMUM : .71 AC.
EXISTING FOREST ON NET TRACT AREA : .48 AC.
FOREST TO BE CLEARED : .16 AC.
FOREST TO BE RETAINED : .32 AC.
TOTAL AFFORESTATION REQ'D. : .55 AC.

[1] NOTE: A FEE-IN-LIEU PAYMENT IN THE AMOUNT OF $4,890.00 WAS PAID INTO THE HOWARD COUNTY FOREST CONSERVATION FUND ON 3/19/01 FOR 0.4 ACRES (16,300 SF) OF AFFORESTATION PLANTING THAT WAS ABANDONED WITH THIS RED-LINE REVISION.

AFFORESTATION PROVIDED: ~~AREA (A) = .4 AC (16300 SF)~~ [1] ~~15 - 2" CAL. TREES (.15 X 100 = 15)~~ ~~60% DOMINANT = 39~~
~~50 - 1" CAL. TREES (.25 X 200 = 50)~~ ~~40% UNDERSTORY = 26~~
~~65 TREES .4 AC~~

AREA (B) = .11 AC. (4970 SF) 22 - 1" CAL TREES (.11 X 200 = 22) 60% DOMINANT = 13 40% UNDERSTORY = 9

AREA (C) = .1 AC (2718 SF) 20% LANDSCAPE OPTION
11 MAJOR TREES - 2" CAL. (40 TREES PER 10000 SF)
32 SHRUBS (120 SHRUBS PER 10000 SF)

TOTAL AREA = ~~.61 AC. (23988 SF)~~ ~~98 TREES (63 DOMINANT/35 UNDERSTORY)~~
32 SHRUBS
[1] .21 AC (9,148 SF) 33 TREES (24 DOMINANT / 9 UNDERSTORY)

AFFORESTATION AREA PROTECTION SIGN

Min 11" × Min 15"

Forest Conservation Area

REFORESTATION PROJECT

Trees for Your Future

FOREST RETENTION SIGNAGE

Min 11" × Min 15"

FOREST RETENTION AREA

MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS *PROHIBITED*

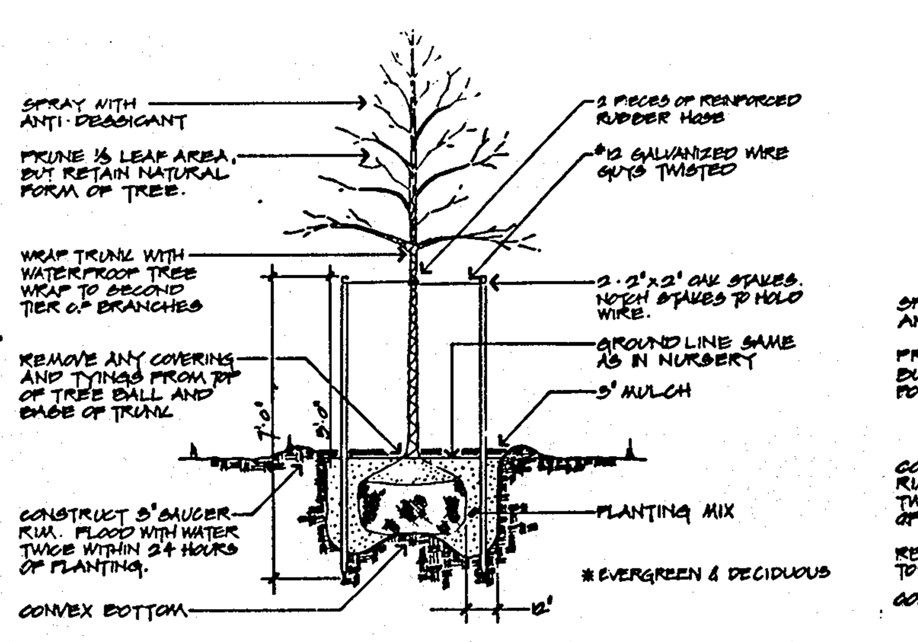
VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991

FOREST CONSERVATION SIGNS

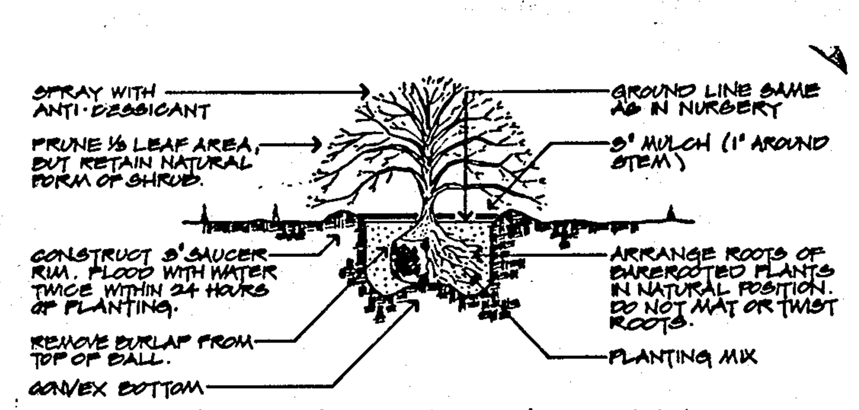
GENERAL NOTES / DETAILS & SPECIFICATIONS

NOTES:

1. Contractor to notify Miss Utility a minimum of 72 hours prior to digging. Telephone: 1-800-257-7777
2. The Landscape Architect is to be notified 48 hours before planting begins. The location of all plant material is to be approved in the field by the Landscape Architect.
3. This plan is to be used for planting only.
4. No tree or shrub planting pits are to be left open or unattended.
5. THE GROUND PLANE IN THE AFFORESTATION AREAS IS TO BE CLEARED OF ALL INVASIVE PLANT MATERIAL. IF THE GROUND IS BARE DIRT THE AREA IS TO BE MULCHED. TURF WILL NOT BE PERMITTED.



PLANTING DETAIL FOR TREES* - 1¼"-4" CALIPER
NOT TO SCALE



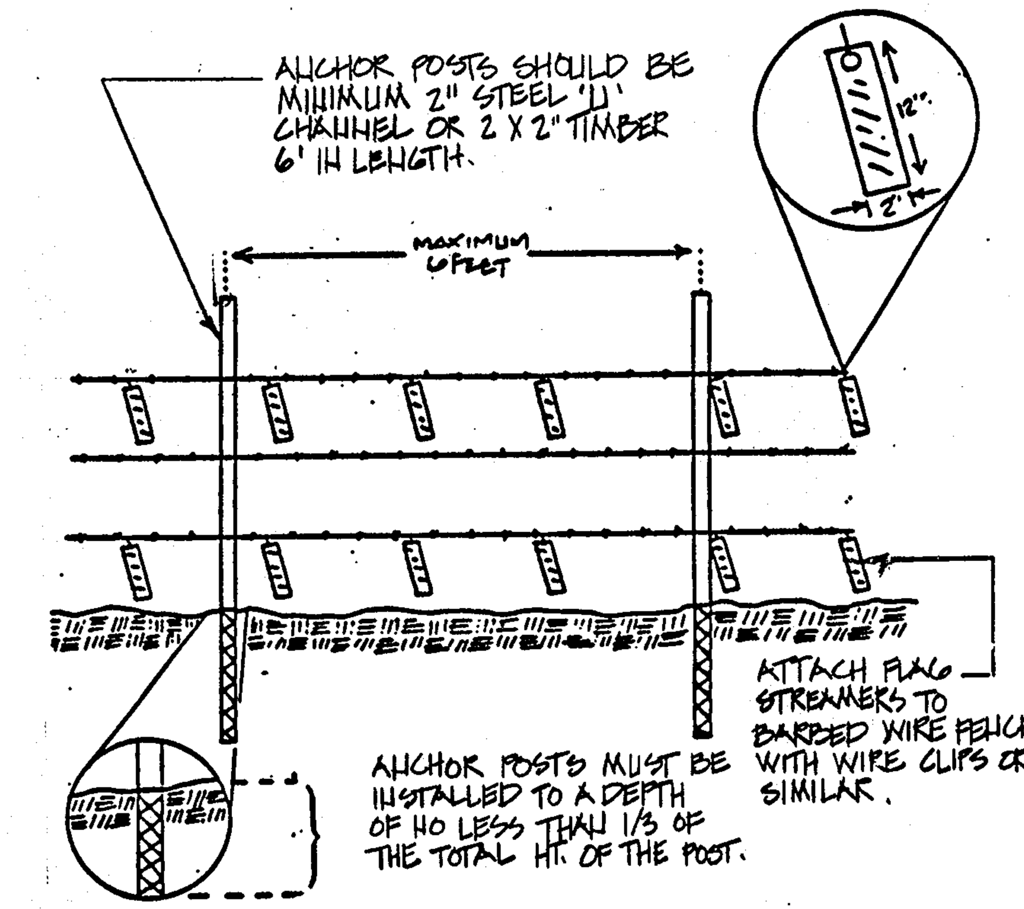
PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS
NOT TO SCALE

CONSTRUCTION SEQUENCE

1. Call Miss Utility. Coordinate all work with instructions shown on the site and sediment control plans.
2. Stake out parking lot. Stake and flag the limits of disturbance and afforestation area.
3. Notify Howard County Department of Planning and Zoning at (410) 313-2354 and Human & Rohde, Inc. at (410) 825-3885 to inspect the limits of disturbance and area to be afforested.
4. Selectively clear the wooded area adjacent to afforestation area C. Remove all invasive species of vines and groundcover and any plant material that is dead or diseased. Tree stumps are to remain. Consult Human & Rohde, Inc. for direction.
5. Install a three strand barbed wire fence and appropriate forest conservation signs along areas indicated on the plan.
6. Install all sediment control devices.
7. Begin grading.
8. Monitor conditions of trees to be retained during construction and make corrective measures when appropriate. Decisions are to be made in conjunction with qualified professionals.
9. Plant afforestation areas and notify Howard County Office of Planning and Zoning when planting is completed. Planting should occur between October and April.
10. After construction is completed, continue to monitor retained trees to insure survival. The edge (15') of the surviving forest stand should be adjusted through selective clearing, thinning, pruning and removal of species susceptible to windthrow. Remove dead or diseased trees and damaged vegetation.
11. Remove all temporary protective devices (three strand fence and signage) and sediment control devices. Coordinate with sediment control plan.

SURVIVAL REQUIREMENT OF AFFORESATION AREAS

The minimum survival rate shall be 75% of the total number of trees planted per acre at the end of the three-year maintenance period. Wild tree seedlings from natural regeneration on the planting site may be counted towards the total survival number if they are healthy, native species at least 12 inches tall.



NOTES:
- FOREST PROTECTION DEVICE ONLY
- RETENTION AREA TO BE SET AS PART OF THE REVIEW PROCESS
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED & FLAGGED PRIOR TO INSTALLING DEVICE
- AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS
- BARBED WIRE SHOULD BE SECURELY ATTACHED TO POSTS.
- DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION
- PROTECTIVE SIGNAGE IS ALSO RECOMMENDED.

THREE STRANDED BARBED WIRE FENCE

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) Kenneth M. Johns — DATE 8/27/93

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) Daniel W Bennett — DATE 8/27/93.

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE

HUMAN & ROHDE, INC.
Landscape Architects
110 E. Pennsylvania Avenue
Towson, Maryland 21286
(410) 825-3885

STATE OF MARYLAND — REGISTERED LANDSCAPE ARCHITECT — NO. 353

LANDSCAPE ARCHITECT No. 1178 — ...S MITCHELL BRADNER — STATE OF MARYLAND

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	EBA ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

REVISIONS
REVISED AS PER COMMENTS 7-13-93
[1] 4/4/01 - DELETION OF AFFORESTATION AREA (A) AND PLANT QUANTITY CHANGES.

LANDSCAPE / FOREST CONSERVATION DETAILS - SITE 2

10 OF 56

HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE 2

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 7-16-93
DRAWING NO. C-9 of 14

SDP 93-66

SPECIFICATIONS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-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 CUT 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 SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS 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 TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE 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.

STRUCTURE BACKFILL

BACKFILL ADJACENT TO PIPES 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 WATERTIGHT 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: NEXON, PLASTI-COTE, BLAC-KLAD, AND BETH-CU-LOY. COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENTS 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-274 WITH WATERTIGHT COUPLING BANDS OR FLANGES. ANY ALUMINUM COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND.

MATERIALS – (ALUMINUM PIPE) – THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATERTIGHT 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 DIP 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 PIPES MUST BE COMPLETELY WATERTIGHT. 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 WATERTIGHT. DIMPLE BANDS ARE NOT CONSIDERED TO BE WATERTIGHT.

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 TYPE 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 24" IN DIAMETER AND LARGER SHALL BE CONNECTED BY A 24" LONG ANNULAR 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 "STRUCTURE 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 WITH 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 WATERTIGHT.

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, LEVEES, 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 PARAT 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 SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING 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 SIGHTLY 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.

OPERATION, MAITENANCE AND INSPECTION

INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESOR OR ASSIGNS SHALL BE RESPOSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M. Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W. Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

A) CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

POND SPECIFICATIONS

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: EBA ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

STATE OF MARYLAND — KENNETH M. JOHNS — No. 10888 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

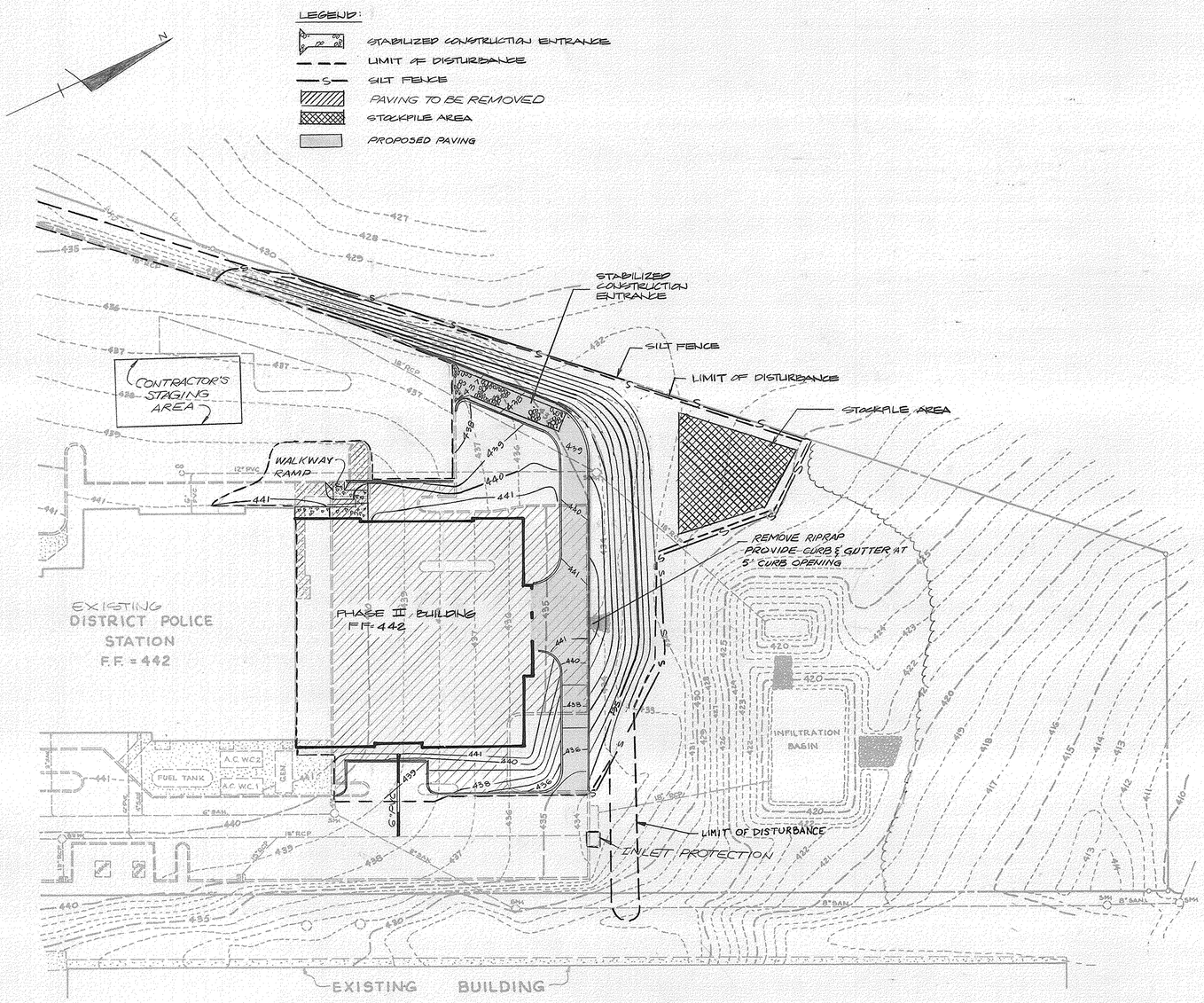
REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX – PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 8-25-93
DRAWING NO. C-10 of 14

SDP 93-66



SCALE: 1" = 30'

DESIGN CERTIFICATION

I HEREBY 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 IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

8/27/93 — DATE

DESIGNER'S SIGNATURE

MD REGISTRATION NO. 10989 — KENNETH M. JOHNS

(P.E.) R.L.S. OR R.L.A. (CIRCLE) — PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

8/27/93 — DATE

OWNER/DEVELOPER SIGNATURE

Donald W. Bennett, Chief — PRINTED NAME AND TITLE

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

Joyce M. Bond AND for F.R. — 3-8-94

COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

APPROVED — HOWARD S.C.D. — DATE 3/18/94

REVIEWED FOR HOWARD (NAME) HOWARD S.C.D.

AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE — DATE 3/8/94

U.S. SOIL CONSERVATION SERVICE

STATE OF MARYLAND — DONNICK W. COLAIACOVO — NO. 27905 — REGISTERED PROFESSIONAL ENGINEER — 8/20/07

SITE I

REVISIONS
7/09/07 ADDED SEWER LINE, REVISED LIMIT OF DISTURBANCE.

EROSION & SEDIMENT CONTROL PLAN

HOWARD COUNTY

PUBLIC SAFETY COMPLEX — PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

12 OF 56

CAPITAL PROJECT NO. C - 0227

DATE: 8-26-93

DRAWING NO. C-11 OF 14

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:

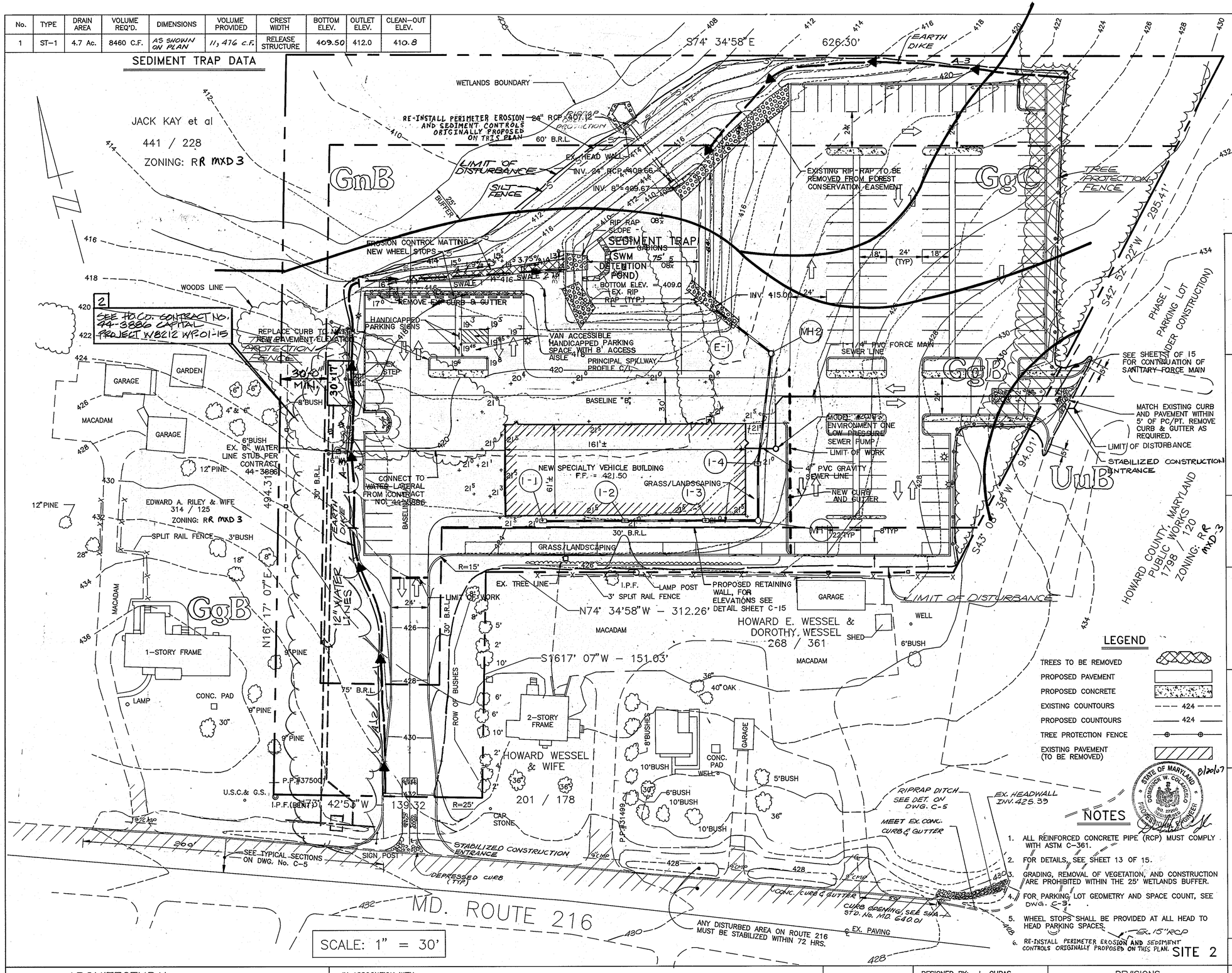
CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

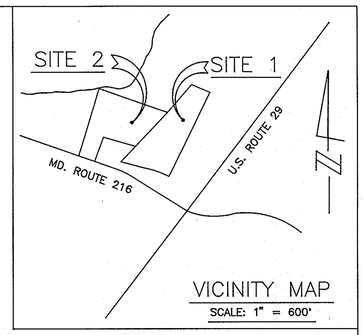
STATE OF MARYLAND — KENNETH M. JOHNS — NO. 10989 — REGISTERED PROFESSIONAL ENGINEER

SDP 93-66

No.	TYPE	DRAIN AREA	VOLUME REQ'D.	DIMENSIONS	VOLUME PROVIDED	CREST WIDTH	BOTTOM ELEV.	OUTLET ELEV.	CLEAN-OUT ELEV.
1	ST-1	4.7 Ac.	8460 C.F.	AS SHOWN ON PLAN	11,476 C.F.	RELEASE STRUCTURE	409.50	412.0	410.8

SEDIMENT TRAP DATA





VICINITY MAP
SCALE: 1" = 600'

LEGEND

- TREES TO BE REMOVED
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- EXISTING COUNTOURS — 424 —
- PROPOSED COUNTOURS — 424 —
- TREE PROTECTION FENCE
- EXISTING PAVEMENT (TO BE REMOVED)

NOTES

1. ALL REINFORCED CONCRETE PIPE (RCP) MUST COMPLY WITH ASTM C-361.
2. FOR DETAILS, SEE SHEET 13 OF 15.
3. GRADING, REMOVAL OF VEGETATION, AND CONSTRUCTION ARE PROHIBITED WITHIN THE 25' WETLANDS BUFFER.
4. FOR PARKING LOT GEOMETRY AND SPACE COUNT, SEE DWG. C-3.
5. WHEEL STOPS SHALL BE PROVIDED AT ALL HEAD TO HEAD PARKING SPACES.
6. RE-INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS ORIGINALLY PROPOSED ON THIS PLAN.

SITE 2

STATE OF MARYLAND — GORDON W. COLLICELLO — REGISTERED PROFESSIONAL ENGINEER — 8/20/07

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

SEDIMENT & EROSION CONTROL — 13 OF 56

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: EBA ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

STATE OF MARYLAND — KENNETH M. JOHNS — REGISTERED PROFESSIONAL ENGINEER — 12/18/1989

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

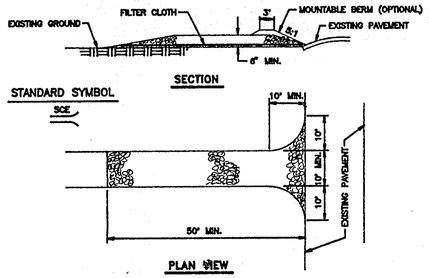
REVISIONS
2 09/05/01 - ADDITION OF BOOSTER PUMPING STATION
3 07/09/07 - ADDED AS-BUILT FEATURES AND NEW BUILDING.

HOWARD COUNTY
PUBLIC SAFETY COMPLEX - PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 8-24-93
DRAWING NO.
C - 12 of 14

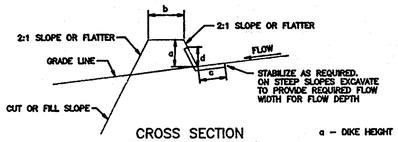
SDP 93-66



CONSTRUCTION SPECIFICATIONS:

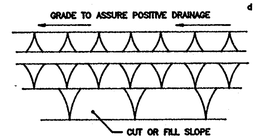
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE



CROSS SECTION

	DIKE A (5 Ac. or less)	DIKE B (5 – 10 Ac.)
a – DIKE HEIGHT	18"	36"
b – DIKE WIDTH	24"	36"
c – FLOW WIDTH	4'	6'
d – FLOW DEPTH	8"	15"



STANDARD SYMBOL

A–2 B–3

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH–MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED, SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON OR (B) FLOW CHANNEL PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5–3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR; SOD; 2" STONE
3	5.1–8.0%	SEED WITH JUTE OR SOD; 2" STONE	LINED RIP–RAP 4–8"
4	8.1–20%	LINED RIP–RAP 4–8"	ENGINEERING DESIGN

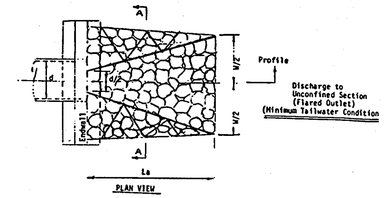
A. STONE TO BE 2" OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3" THICK AND PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.

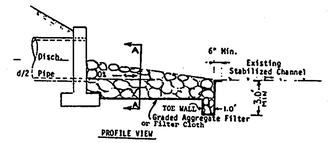
B. AN 8"(MIN.) THICK LAYER OF 4–8" RIP–RAP PRESSED INTO THE SOIL.

C. APPROVED EQUIVALENTS MAY BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

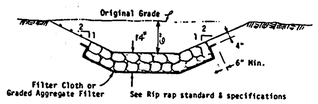
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE



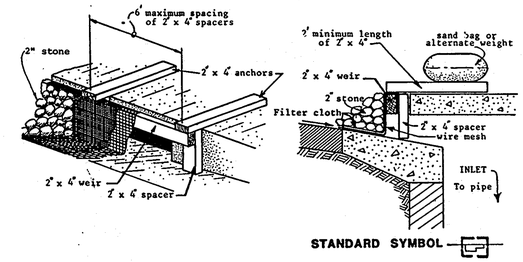


Rip rap to be embedded in proposed transition section

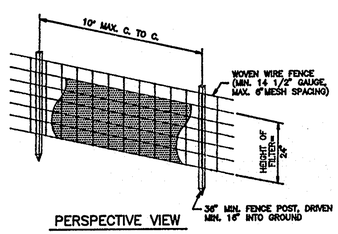


CROSS SECTION A - A

RIPRAP OUTLET PROTECTION-I

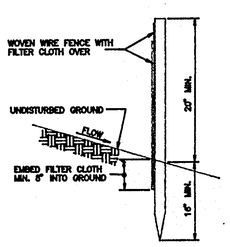


CURB INLET PROTECTION DETAIL



PERSPECTIVE VIEW

STANDARD SYMBOL



SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND BOTTOM.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

POSTS: STEEL (EITHER T OR U TYPE) OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 1/2 GAUGE, 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABLINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTONS, LICENSES AND PERMITS. (3 days)
2. COORDINATE SEQUENCE OF OPERATIONS WITH SEQUENCE OF CONSTRUCTION ON DWG C-9.
3. INSTALL ALL SEDIMENT CONTROL MEASURES STABILIZED CONSTRUCTION ENTRANCES, SILT FENCE, EARTH DIKE, SEDIMENT TRAPS, ETC. AS SHOWN ON PLANS. ON SITE 2 INSTALL RELEASE STRUCTURE AND 24"RCP; TEMPORARILY PLUG 3" & 8" DIAM. ORIFICES. (10 days)
4. DEMOLISH AND DISPOSE EXISTING CURB AND GUTTER AND PAVEMENTS AS SHOWN ON PLANS. (3 days)
5. PERFORM GRADING. INSTALL ALL UTILITIES; CONSTRUCT BUILDING, CONSTRUCT ACCEL. AND DECEL. LANES, CONSTRUCT PARKING LOT AND ROADWAYS, PROVIDE TEMPORARY STABILIZATION. (8 Mths.)
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENTS ATTRIBUTED TO HIS/HER WORK, FROM EXISTING BASIN.
7. WHEN SITE IS STABILIZED, REMOVE TEMPORARY ORIFICE PLUGS. INSTALL 3" PERFORATED PVC LOW FLOW PIPE, EXCAVATE DETENTION POND TO FINAL GRADING AND REPAIR RELEASE STRUCTURE TO CONFORM, TO ITS FINAL DESIGN. (2 days)
8. PROVIDE PERMANENT STABILIZATION. (1 day)
9. UPON APPROVAL OF THE EROSION/SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES. (1 day)

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS–BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93

(PRINT NAME BELOW SIGNATURE) Kenneth M. Johns

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS–BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON–SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93

(PRINT NAME BELOW SIGNATURE) Daniel W Bennett

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/25/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/18/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/18/94

DETAILS — 14 OF 56

ARCHITECTURAL TECHNOLOGIES, INC.
ARCHITECTS AND CONSTRUCTION CONSULTANTS
9192 RED BRANCH ROAD, SUITE 300
COLUMBIA, MARYLAND 21045 (410) 995–4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: EBA ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

SEAL: STATE OF MARYLAND — KENNETH M. JOHNS — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX – PHASE II

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MARYLAND 20707

CAPITAL PROJECT NO.
DATE: 8-25-93
DRAWING NO: C-13 of 14

SDP-93-66

GENERAL NOTES FOR SEDIMENT & EROSION CONTROL

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVSIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT CONTROL TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (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.
6. 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.
7. SITE ANALYSIS:

TOTAL DISTURBED AREA OF SITE	10.47	AC
AREA DISTURBED	4.0	AC.
AREA TO BE ROOFED OR PAVED	2.5	AC
AREA TO BE VEGETATIVELY STABILIZED	1.5	AC
TOTAL CUT	8415	CU. YDS.
TOTAL FILL	6242	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION		

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING SPECIFICATIONS

1. ALL DISTURBED AREAS – SHALL BE SEEDED AND MULCHED
2. SEEDED BED PREPARATION – THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING OR RAKING (SHALL BE DONE ON CONTOUR) TO A DEPTH OF AT LEAST 3" BEFORE SEEDING OCCURS, APPLY TWO (2) TON PER ACRE OF LIME AND 1000 LBS. PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT. THOROUGHLY MIX INTO SOIL TO A MINIMUM OF 3".
3. SEEDING METHOD OF APPLICATION – APPLY SEED UNIFORMLY WITH A CYCLONE SEED DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
4. SEEDING – USE 50% KENTUCKY BLUEGRASS, 40% PENNLAWN CREEPING RED FESCUE AND 10% OF RED TOP AT THE RATE OF 90 LBS. PER ACRE. PERMANENT SEEDING TO BE DONE ONLY DURING THE PERIOD OF 2/1 TO 4/30 AND 8/15 TO 10/31.
5. MULCHING – USE CLEAN, UNWEATHERED, UNCHOPPED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE ANCHORED DOWN WITH CUTBACK ASPHALT AT THE RATE OF 5-8 GALLONS PER 1000 SQ. FT.

SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD SHALL BE LAID ON SOIL PREPARED IN ACCORDANCE WITH NOTE 2 PERMANENT SEEDING. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN EIGHT HOURS OF INSTALLATION. DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

TEMPORARY SEEDING SPECIFICATIONS

1. ALL DISTURBED AREAS – SHALL BE SEEDED AND MULCHED
2. SEEDED BED PREPARATION – THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING OR RAKING (SHALL BE DONE ON CONTOUR) TO A DEPTH OF AT LEAST 3" BEFORE SEEDING OCCURS, APPLY TWO (2) TON PER ACRE OF LIME AND 1000 LBS. PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT. THOROUGHLY MIX INTO SOIL TO A MINIMUM OF 3". APPLY 2" OF TOPSOIL.
3. SEEDING METHOD OF APPLICATION – APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
4. SEEDING – FOR THE PERIOD 2/1 – 4/30 AND 8/15 – 11/30 USE ITALIAN OR PERENNIAL RYEGRASS 40 LBS./ACRE OR .92 LBS./1000 SQ. FT. DURING THE PERIOD 5/1 – 8/14 USE MILLET 40 LBS./ACRE OR .92 LBS./1000 SQ. FT.
5. MULCHING – USE CLEAN, UNWEATHERED, UNCHOPPED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE ANCHORED DOWN WITH CUTBACK ASPHALT AT THE RATE OF 5-8 GALLONS PER 1000 SQ. FT.
6. DISCING AND HARROWING – SHALL BE DONE ON CONTOUR.

STANDARD STABILIZATION NOTE:

"FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND FOURTEEN DAYS (14) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE."

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE OF ENGINEER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Kenneth M. Johns

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"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 8/27/93
(PRINT NAME BELOW SIGNATURE) Daniel W. Bennett Jr.

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

COUNTY HEALTH OFFICER — DATE 3-8-94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR — DATE 3/24/94

A/CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/24/94

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

DIRECTOR — DATE 2/26/94

CHIEF, BUREAU OF ENGINEERING — DATE 2/25/94

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

U. S. SOIL CONSERVATION SERVICE — DATE 3/10/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 3/10/94

EROSION AND SEDIMENT CONTROL NOTES — 15 OF 56

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COLUMBIA, MARYLAND 21045 (410) 995-4067

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FIRE PROTECTION ENGINEER: STANTON ENGINEERING

STATE OF MARYLAND — KENNETH M. JOHNS — NO. 10389 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. CUBAS
DRAWN BY: J. PLUM
CHECKED BY: K. JOHNS
APPROVED BY:

REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX – PHASE II

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