

GENERAL NOTES

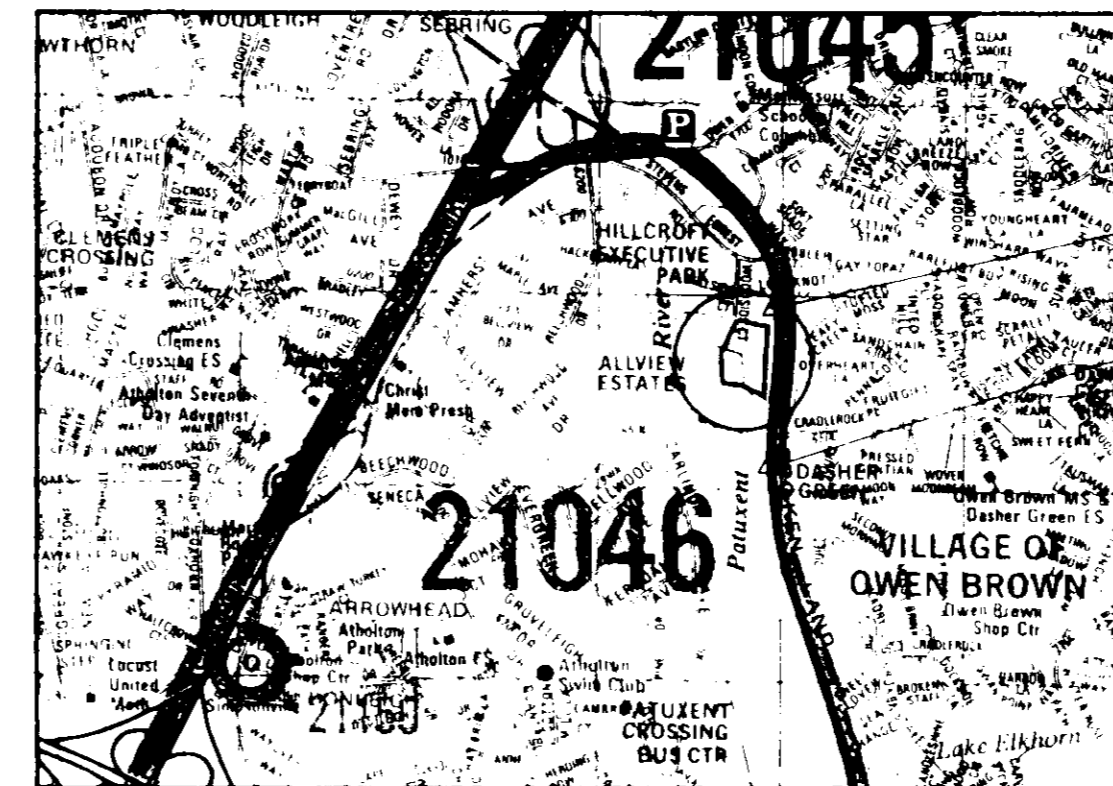
- TOPOGRAPHY WAS TAKEN FROM GREENHORNE & OMARA, INC. SITE DEVELOPMENT PLAN (SDP-89-198) AND FIELD CHECKED BY THE RBA GROUP.
2 FOOT CONTOUR INTERVAL
BENCH MARKS: COUNTY #36EA- ELEV. 355.906 (CONC. MONUMENT)
COUNTY #36HA- ELEV. 292.872 (CONC. MONUMENT)
- ALL WORK SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND MAINTAIN MINIMUM COVER IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 48 HOURS BEFORE THE START OF WORK SHOWN ON THESE PLANS:
"MISS UTILITY" 1-800-257-7777
BALTIMORE GAS & ELECTRIC CO. (410) 954-6260
C & P TELEPHONE CO. (410) 393-3648
- FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NOT NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.
- ALL UTILITIES ARE TO BE RETAINED UNLESS MARKED OTHERWISE AND APPURTENANCES ARE TO BE ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 24 HOURS IN ADVANCE OF THE COMMENCEMENT OF WORK.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL), AND DIMENSIONS.
- SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL FILL SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY LAW ENGINEERING, DATED.
- THERE ARE NO WETLANDS, STREAM BUFFERS OR 100 YEAR FLOODPLAIN ON THE SITE.
- THE LOCATION OF OFF-SITE UTILITIES WAS OBTAINED FROM AS-BUILT PLANS WHERE AVAILABLE AND FROM FIELD SURVEYS.
- TRAFFIC CONTROL SIGNS AND MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- STORMWATER MANAGEMENT IS PROVIDED BY USE OF AN ON SITE FOND PROVIDING 2- AND 10- YEAR QUANTITY MANAGEMENT AND EXTENDED DETENTION QUALITY MANAGEMENT. ALL STORMWATER FACILITIES WILL BE PRIVATELY MAINTAINED.
- ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS PRIOR TO SUCH ADJUSTMENTS. SEE THE EROSION AND SEDIMENT CONTROL PLAN FOR ADDITIONAL NOTES.
- IN ACCORDANCE WITH FDP NO. 149-A-11, NO STRUCTURE IN COMMERCIAL LAND USE SHALL BE LOCATED WITHIN 30 FEET OF ANY PUBLIC STREET, ROAD OR HIGHWAY EXCEPT, HOWEVER, IF SHOWN ON AN SDP APPROVED BY THE HOWARD COUNTY PLANNING BOARD.
- TRAFFIC STUDY IS NOT REQUIRED FOR THIS DEVELOPMENT AND THE SITE IS EXEMPTED FROM APFO ROAD TEST.
- A REQUEST FOR A WAIVER (WP-94-116) WAS FILED TO ALLOW GRADING AND REMOVAL OF VEGETATION FROM STEEP SLOPES AS PER SECTION 16.116.(b).1 OF HOWARD COUNTY SUBDIVISION REGULATIONS. THIS WAIVER WAS GRANTED AUGUST 2, 1994.
- PARCEL E-6 HAS BEEN RECORDED IN THE HOWARD COUNTY LAND RECORDS ON PLAT 11276. SEE COUNTY FILE F-94-112.
- A REQUEST FOR A WAIVER FROM THE HOWARD COUNTY DESIGN MANUAL, VOLUME SECTIONS 10.2.6.4, 10.2.6.5.a AND 10.2.6.6.a AND 6E HAS BEEN GRANTED AS PER LETTER FROM JAMES IRVIN DATED JULY 21, 1994.

DEVELOPMENTAL SERVICES GROUP OFFICE BUILDING

SITE ANALYSIS

- AREA OF PARCEL: 4.756 AC. (207,181 SQ. FT.)
- ZONING: NEW TOWN- EMPLOYMENT CENTER COMMERCIAL * FDP NO. 149-A-11
- PROPOSED USE OF STRUCTURE: OFFICES FOR AGENCY WHICH ASSISTS HANDICAPPED PERSONS (STATE AND COUNTY FUNDED)
- PROPOSED FLOOR AREA: PHASE I: 31,034 SQ. FT. TOTAL
15,017 SQ. FT. PER FLOOR
PHASE II: 2,000± SQ. FT. TOTAL
10,000± SQ. FT. PER FLOOR
1 PER 500 SQ. FT.
- REQUIRED PARKING: PHASE I: 64 SPACES (3 BARRIER FREE)
PHASE II: 4 SPACES (2 BARRIER FREE)
TOTAL: 100 SPACES
- PROVIDED PARKING: PHASE I: 141 SPACES (10 BARRIER FREE)
PHASE II: 64 SPACES
TOTAL: 199 SPACES
- OPEN SPACE TO REMAIN: 114,406 SQ. FT.
PERCENTAGE: 55
- BUILDING COVERAGE: 25,017 SQ. FT. (FOOTPRINT)
PERCENTAGE: 12
- OTHER PAVED AREAS: 67,766 SQ. FT.
PERCENTAGE: 33
- TOTAL IMPERVIOUS AREA: 92,783 SQ. FT.
PERCENTAGE: 45
- TOTAL LIMITS OF DISTURBANCE: 3,786 AC.

NOTE: ITEMS 1 THROUGH 11 APPLY TO THE TOTALS FOR BOTH PHASE I AND PHASE II.

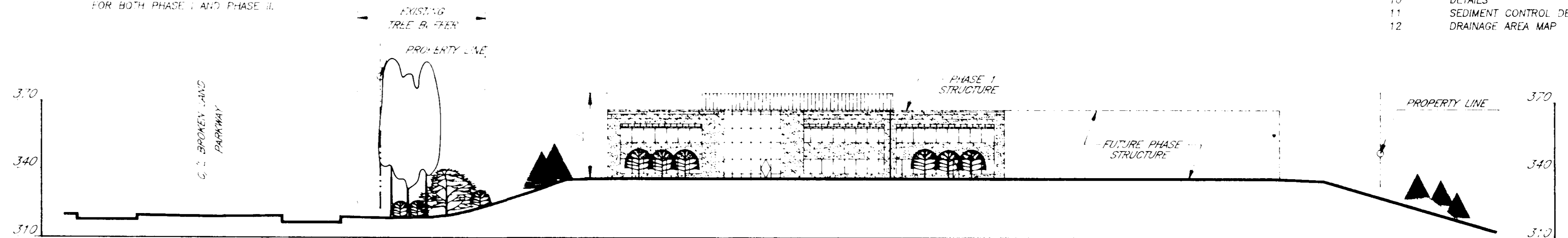


VICINITY MAP
SCALE: 1"=200'

CONTROL STATION ID: 36EA
CONTROL STATION ID: 36HA

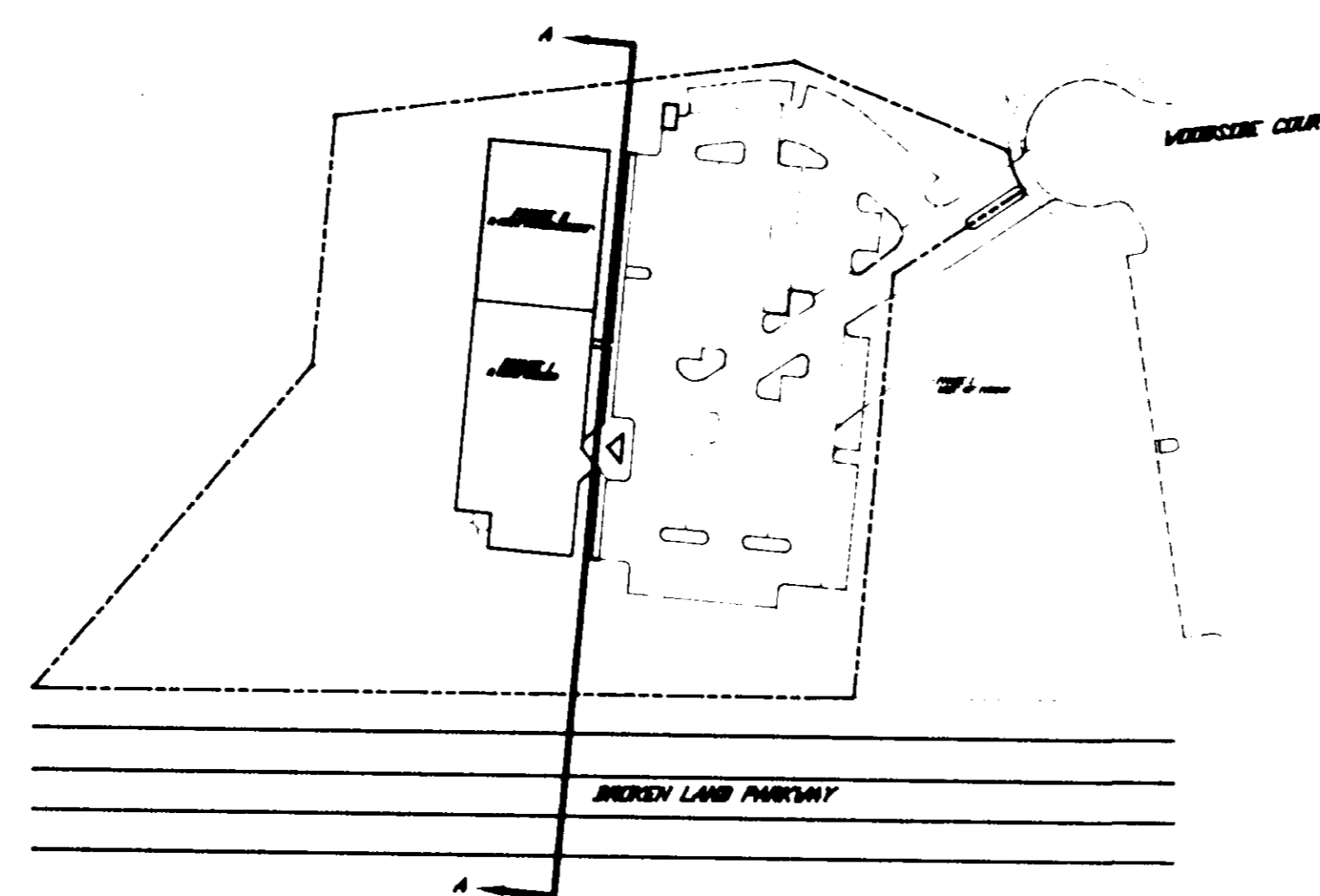
SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	EXISTING CONDITIONS
3	SITE LAYOUT PLAN
4	GRADING PLAN
5	SEDIMENT CONTROL PLAN
6	LANDSCAPE PLAN
7	LANDSCAPE DETAILS
8	PROFILES
9	DETAILS
10	DETAILS
11	SEDIMENT CONTROL DETAILS
12	DRAINAGE AREA MAP



SECTION A-A

SCALE: HORIZ. 1"=10'
VERT. 1"=30'



PLAN

OWNER/DEVELOPER M.D.R. DSG, LTD. PARTNERSHIP 7165 COLUMBIA GATEWAY DR., #17 COLUMBIA, MARYLAND 21046	
ADDRESS CHART	
LOT NO. E-6	STREET ADDRESS 6355 WOODSIDE COURT
SUBDIVISION NAME VOB	SECTION AREA 5
PLAT "BLOCK" ZONE/TAX ZONE MAP/ELECT. DIST. CONTROL 11276 14 NT 36	SECTION NO. E-6
WATER CODE E-13	SEWER CODE 5410000

9/1/94
COH

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

COUNTY HEALTH OFFICER

DATE

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

James S. Smith
DIRECTOR
Quinn Strammann
CHIEF, DIVISION OF LAND
DEVELOPMENT AND RESEARCH COH

10/21/94
DATE

10/21/94
DATE

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

James P. Green
DIRECTOR
Robert Egan
CHIEF, BUREAU OF ENGINEERING COH

10/16/94
DATE

10/18/94
DATE



JOHN V. CLAPSADDE, P.E.
NO. NO. 16956

no. description date

prepared by



5580 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7900

TITLE SHEET

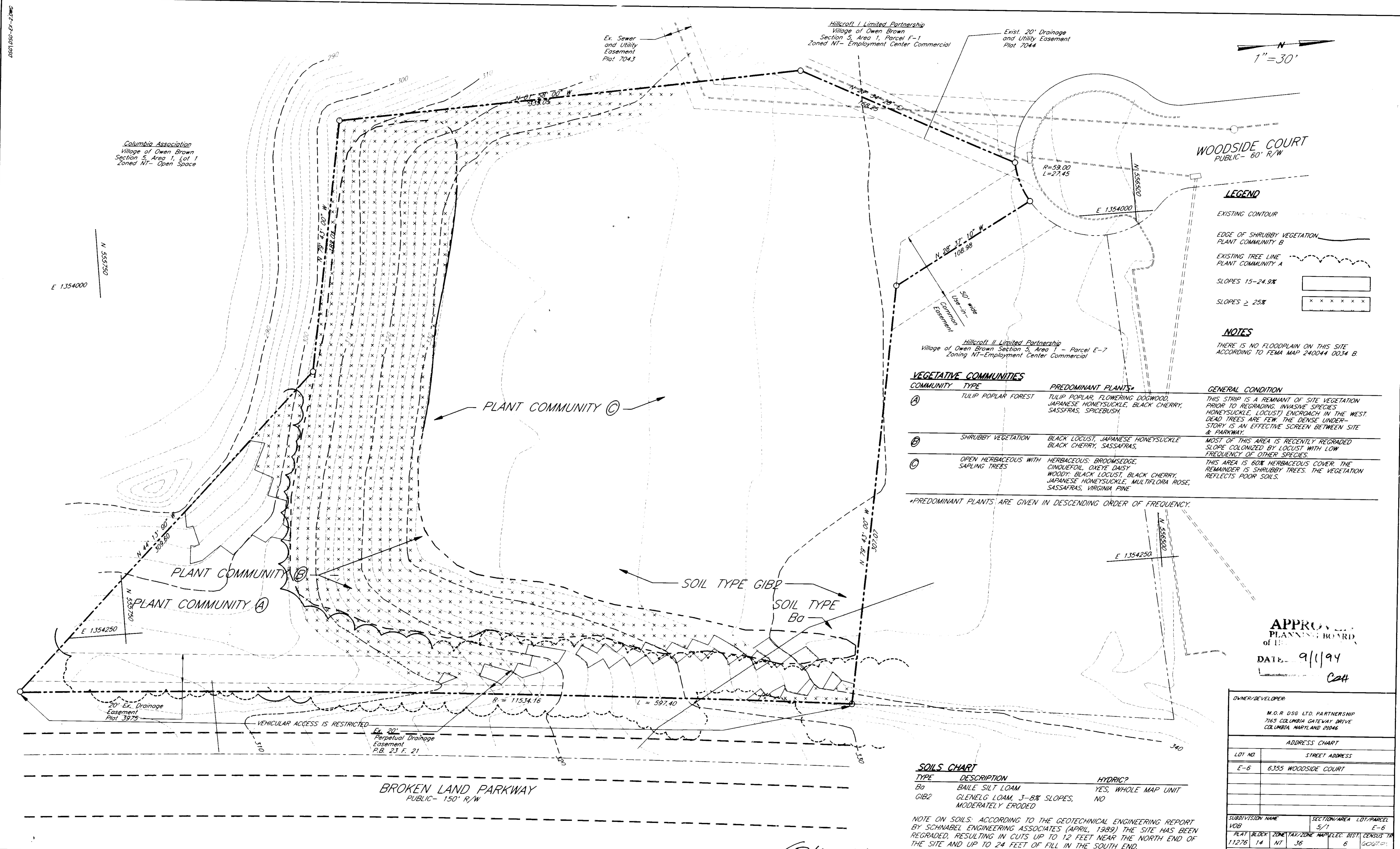
DEVELOPMENTAL SERVICES GROUP
OFFICE BUILDING

HOWARD COUNTY MARYLAND

SCALE
AS SHOWN
DRAWN BY
CHECKED BY
DATE
9/94
SHEET 1 OF 12

AS-BUILT

SDP 94-132



WOODSIDE COURT
PUBLIC - 60' R/W

LEGEND

EXISTING CONTOUR

EDGE OF SHRUBBY VEGETATION
PLANT COMMUNITY B

EXISTING TREE LINE
PLANT COMMUNITY A

SLOPES 15-24.9%

SLOPES ≥ 25%

NOTES

THERE IS NO FLOODPLAIN ON THIS SITE
ACCORDING TO FEMA MAP 240044 0034 B.

VEGETATIVE COMMUNITIES

COMMUNITY	TYPE	PREDOMINANT PLANTS*	GENERAL CONDITION
A	TULIP POPLAR FOREST	TULIP POPLAR, FLOWERING DOGWOOD, JAPANESE HONEYSUCKLE, BLACK CHERRY, SASSAFRAS, SPICEBUSH	THIS STRIP IS A REMNANT OF SITE VEGETATION PRIOR TO REGRADING. INVASIVE SPECIES HONEYSUCKLE, LOCUST ENCRDACH IN THE WEST. DEAD TREES ARE FEW. THE DENSE UNDER- STORY IS AN EFFECTIVE SCREEN BETWEEN SITE & PARKWAY.
B	SHRUBBY VEGETATION	BLACK LOCUST, JAPANESE HONEYSUCKLE BLACK CHERRY, SASSAFRAS,	MOST OF THIS AREA IS RECENTLY REGRADED SLOPE COLONIZED BY LOCUST WITH LOW FREQUENCY OF OTHER SPECIES.
C	OPEN HERBACEOUS WITH SAPLING TREES	HERBACEOUS: BROOMSEDGE, CINCQUEFOIL, OX-EYE Daisy WOODY: BLACK LOCUST, BLACK CHERRY, JAPANESE HONEYSUCKLE, MULTIFLORA ROSE, SASSAFRAS, VIRGINIA PINE	THIS AREA IS 60% HERBACEOUS COVER. THE REMAINDER IS SHRUBBY TREES. THE VEGETATION REFLECTS POOR SOILS.

*PREDOMINANT PLANTS ARE GIVEN IN DESCENDING ORDER OF FREQUENCY.

SOILS CHART

TYPE	DESCRIPTION	HYDRIC?
Ba	BAILE SILT LOAM	YES, WHOLE MAP UNIT
GIB2	GLENELG LOAM, 3-8% SLOPES, MODERATELY ERODED	NO

NOTE ON SOILS: ACCORDING TO THE GEOTECHNICAL ENGINEERING REPORT
BY SCHNABEL ENGINEERING ASSOCIATES (APRIL, 1989) THE SITE HAS BEEN
REGRADED, RESULTING IN CUTS UP TO 12 FEET NEAR THE NORTH END OF
THE SITE AND UP TO 24 FEET OF FILL IN THE SOUTH END.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: 9/1/94
CCH

OWNER/DEVELOPER

M.O.R DSG LTD. PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

ADDRESS CHART

LOT NO.	STREET ADDRESS
E-6	6355 WOODSIDE COURT

SUBDIVISION NAME: VOB SECTION/AREA: 5/1 LOT/PARCEL: E-6

PLAT: 11278 BLOCK: 14 ZONE: NT TAX/ZONE: 36 MAP/ELEC: 6 DIST: 6 CENSUS TR: 11064

WATER CODE: E-13 SEWER CODE: 5410000

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

COUNTY HEALTH OFFICER: _____ DATE: _____

APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: *James P. Smith* DATE: 10/21/94

CHIEF: *Chia Summary* DATE: 10/21/94

QUARTERMASTER: _____ DATE: _____

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

DIRECTOR: *James P. Smith* DATE: 10/19/94

CHIEF: *John W. Clapsaddle* DATE: 10/18/94



PREPARED BY:

NO.	DESCRIPTION	DATE

ENGINEERS - ARCHITECTS - PLANNERS

RBA

5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410-730-7950

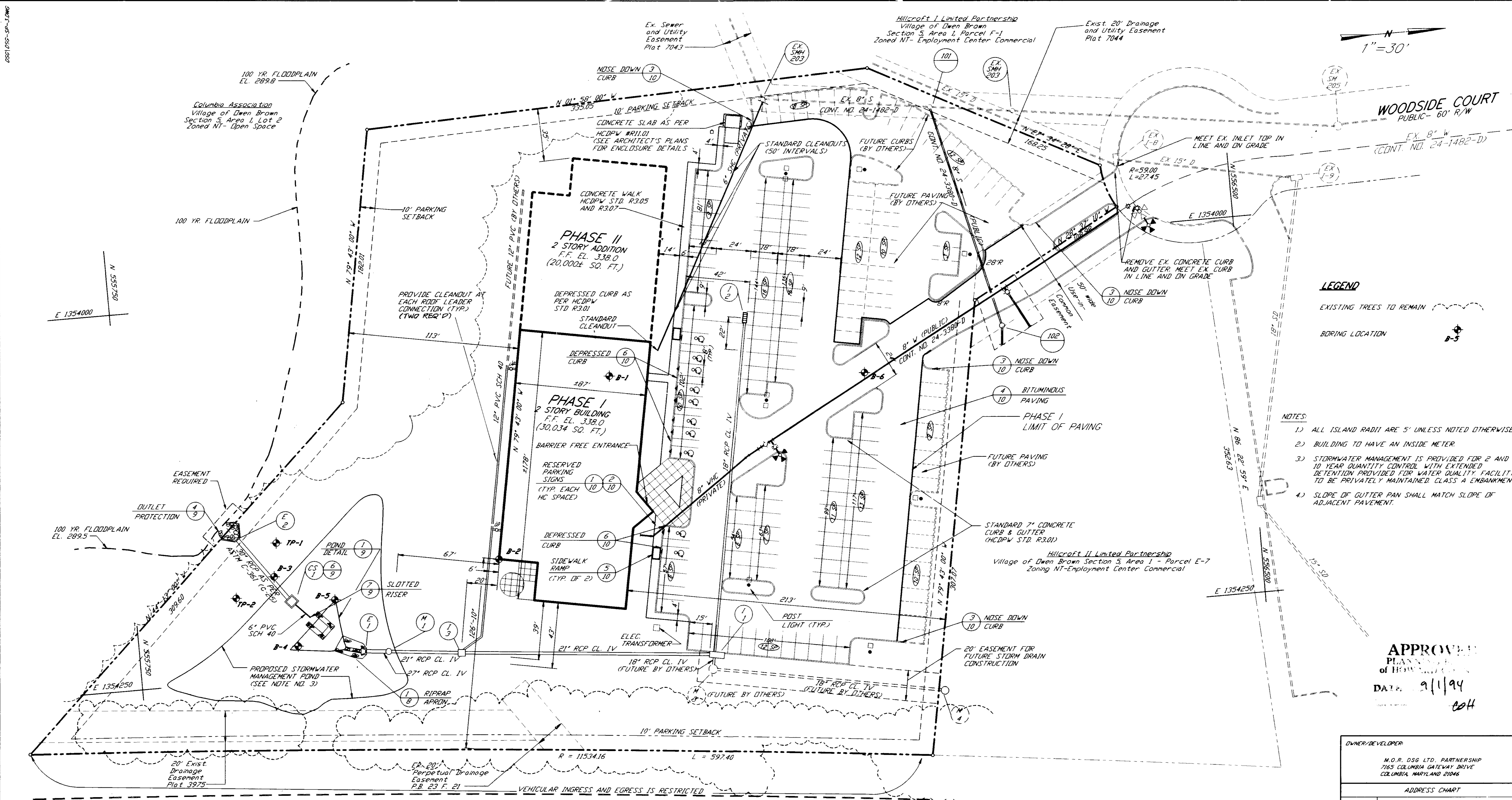
EXISTING CONDITIONS

DEVELOPMENTAL SERVICES GROUP
OFFICE BUILDING

HOWARD COUNTY MARYLAND

SCALE AS SHOWN	CHECKED
DRAWN: ELB	JWC
PROJ. NO: 11064	DATE: 9/94
SHEET: 2	OF: 12

SDP 94.132



LEGEND

EXISTING TREES TO REMAIN

BORING LOCATION

- NOTES:**
- 1) ALL ISLAND RADII ARE 5' UNLESS NOTED OTHERWISE.
 - 2) BUILDING TO HAVE AN INSIDE METER.
 - 3) STORMWATER MANAGEMENT IS PROVIDED FOR 2 AND 10 YEAR QUANTITY CONTROL WITH EXTENDED DETENTION PROVIDED FOR WATER QUALITY FACILITY TO BE PRIVATELY MAINTAINED. CLASS A EMBANKMENT.
 - 4) SLOPE OF GUTTER PAN SHALL MATCH SLOPE OF ADJACENT PAVEMENT.

APPROVED
 PLANNING DEPARTMENT
 of HOWARD COUNTY
 DATE: 9/1/94
 CCH

OWNER/DEVELOPER			
M.O.R. DSB LTD. PARTNERSHIP 7155 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046			
ADDRESS CHART			
LOT NO.	STREET ADDRESS		
E-6	6355 WOODSIDE COURT		
SUBDIVISION NAME			
V08			
SECTION/AREA	LOT/PARCEL		
S-1	E-6		
PLAN	BLOCK	ZONE/TAX ZONE	MAR/REC. DIST. CENSUS TR.
11276	14	NT 36	6 WOODSTON
WATER CODE		SEWER CODE	
E-13		5410000	

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

[Signature]
 COUNTY HEALTH OFFICER

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

[Signature] 10/21/94
 DIRECTOR DATE

[Signature] 10/21/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH CCH

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

[Signature] 10/18/94
 DIRECTOR DATE

[Signature] 10/18/94
 CHIEF, BUREAU OF ENGINEERING 10/18/94

REVISIONS

no.	description	date

prepared by: **RBA** ENGINEERS • ARCHITECTS • PLANNERS

5560 STERRETT PLACE SUITE 300
 COLUMBIA, MARYLAND 21044
 410-730-7950

SITE LAYOUT PLAN

DEVELOPMENTAL SERVICES GROUP
 OFFICE BUILDING

HOWARD COUNTY MARYLAND

SCALE AS SHOWN

DRAWN	CHECKED
ELB	JWC
PROJ. NO.	DATE
11064	9/2/94
SHEET	OF
3	12

0501055-05-4.DWG

POND SUMMARY TABLE

DRAINAGE AREA = 5.36 ACRES	
ALLOWABLE RELEASE RATE	
2-YEAR	1.4 cfs
10-YEAR	7.4 cfs
100-YEAR	66.5 cfs
COMPUTED INFLOW RATE	
2-YEAR	12.2 cfs
10-YEAR	24.9 cfs
100-YEAR	66.5 cfs
DISCHARGE RATE	
2-YEAR	0.1 cfs
10-YEAR	3.1 cfs
100-YEAR	61.8 cfs
WATER SURFACE ELEVATION	
2-YEAR	298.40
10-YEAR	299.60
100-YEAR	301.62
STORAGE VOLUME PROVIDED	
2-YEAR	0.60 ACRE-FT.
10-YEAR	0.75 ACRE-FT.
100-YEAR	1.10 ACRE-FT.

Columbia Association
Village of Owen Brown
Section 5, Area 1, Lot 2
Zoned NT- Open Space

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE PONDS 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 OWNERS AND ANY THEIR SUCCESSORS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION AND MAINTENANCE THEREOF. THE POND OWNERS SHALL PROMPTLY NOTIFY THE SOIL AND CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

100-YR FLOODPLAIN
ELEV. = 289.5

PROPOSED STORMWATER
MANAGEMENT POND

2-YR PEAK EL. = 298.40
10-YR PEAK EL. = 299.60
100-YR PEAK EL. = 301.62

20' Exst.
Drainage
Easement
Plot 3975

Ex. 20'
Perpetual Drainage
Easement
P.B. 23 F. 21

VEHICULAR INGRESS AND EGRESS IS RESTRICTED

BROKEN LAND PARKWAY
PUBLIC- 150' R/W

Hillcroft I Limited Partnership
Village of Owen Brown
Section 5, Area 1, Parcel F-1
Zoned NT- Employment Center Commercial

Exist. 20' Drainage
and Utility Easement
Plot 7044

WOODSIDE COURT
PUBLIC- 60' R/W

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREES TO REMAIN
- 100 YR FLOODPLAIN

NOTES:

- ALL ISLAND RADII ARE 5' UNLESS NOTED OTHERWISE.
- BUILDING TO HAVE AN INSIDE METER.
- STORMWATER MANAGEMENT IS PROVIDED FOR 2 AND 10 YEAR QUANTITY CONTROL WITH EXTENDED DETENTION PROVIDED FOR WATER QUALITY FACILITY TO BE PRIVATELY MAINTAINED.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 9/1/94
Cott

OWNER/DEVELOPER			
M.O.R. DSG LTD. PARTNERSHIP 7165 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046			
ADDRESS CHART			
LOT NO.	STREET ADDRESS		
E-6	6355 WOODSIDE COURT		
SUBDIVISION NAME			
SECTION/AREA			
LOT/PARCEL			
E-6			
PLAT	BLK	ZONE	TAX/ZONE
11276	14	NT	36
WATER CODE		SEWER CODE	
E-13		5410000	

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

COUNTY HEALTH OFFICER

DATE

APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR

DATE: 10/21/94

DATE: 10/21/94

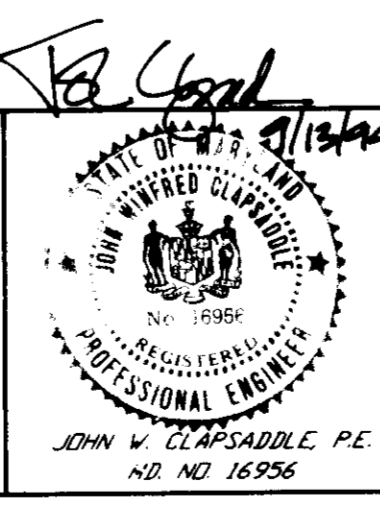
CHIEF, DIVISION OF LAND
DEVELOPMENT AND RESEARCH

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

DATE: 10/18/94

DATE: 10/18/94

DATE: 10/18/94



no.	description	date

prepared by:

RBA ENGINEERS - ARCHITECTS - PLANNERS

5560 STERRETT PLACE SUITE 300
COLUMBIA, MARYLAND 21044
410/730-7950

GRADING PLAN

DEVELOPMENTAL SERVICES
GROUP
OFFICE BUILDING

HOWARD COUNTY MARYLAND

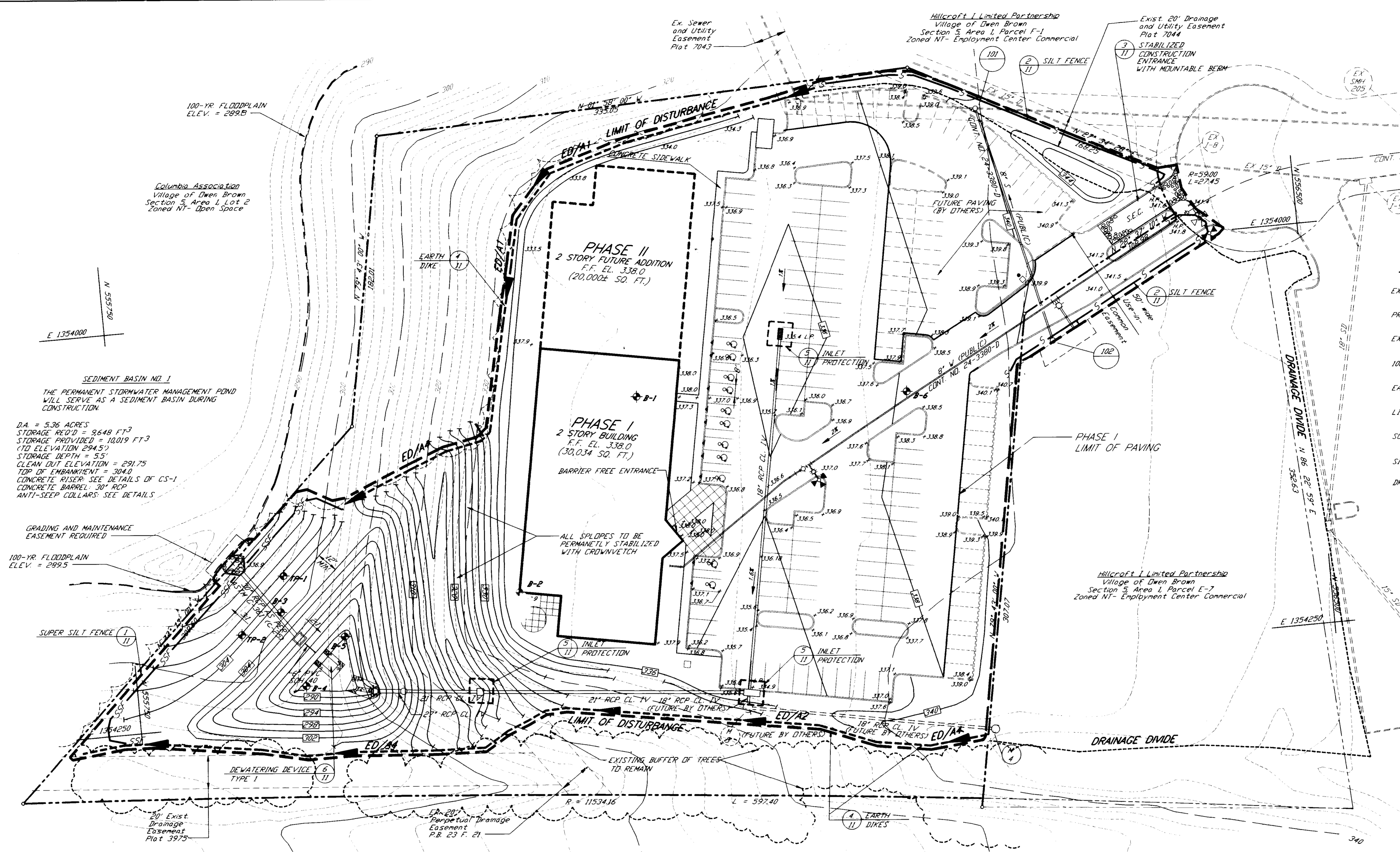
SCALE: AS SHOWN

DRAWN: ELB
PROJ. NO: J1054
SHEET: 4

CHECKED: JWC
DATE: 9/94
OF: 1,2

SDP 94-132

SDP 94-132



CERTIFICATION BY THE DEVELOPER
 I, the undersigned, hereby certify that all development and 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: 9/21/94

CERTIFICATION BY THE ENGINEER
 I, the undersigned, 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: *[Signature]* Date: 9/13/94

APPROVED: *[Signature]* DATE: 10/21/94
 DIRECTOR
 DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: *[Signature]* DATE: 10/16/94
 DIRECTOR
 BUREAU OF ENGINEERING

APPROVED: *[Signature]* DATE: 10/18/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: *[Signature]* DATE: 10/21/94
 DIRECTOR
 DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED
 Date: 9/1/94
 Cott

OWNER/DEVELOPER			
M.O.R. DSS LTD. PARTNERSHIP 7165 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046			
ADDRESS CHART			
LOT NO.	STREET ADDRESS		
E-6	6355 WOODSIDE COURT		
SUBDIVISION NAME		SECTION/AREA	LOT/PARCEL
VOB		5/1	E-6
PLAT	BLOCK	ZONE/TAX ZONE	MARSHLEC DIST/ CENSUS TR
11276	14	NT 36	6 G06701
WATER CODE		SEWER CODE	
E-13		5410000	

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

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: *[Signature]* DATE: 10/21/94
 DIRECTOR
 DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: *[Signature]* DATE: 10/16/94
 DIRECTOR
 BUREAU OF ENGINEERING

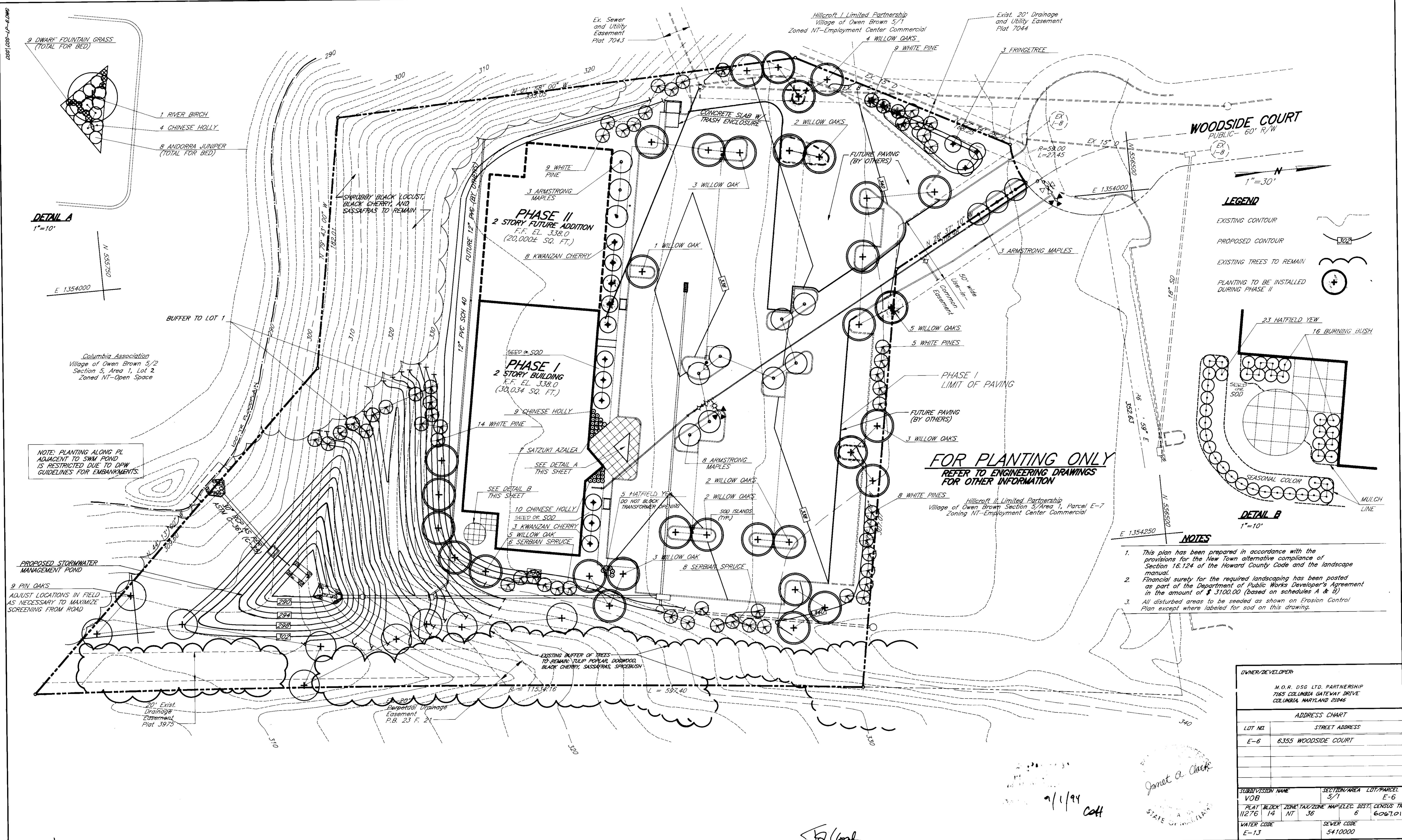
APPROVED: *[Signature]* DATE: 10/18/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: *[Signature]* DATE: 10/21/94
 DIRECTOR
 DIVISION OF LAND DEVELOPMENT AND RESEARCH

SEDIMENT CONTROL PLAN
 DEVELOPMENTAL SERVICES GROUP
 OFFICE BUILDING
 HOWARD COUNTY, MARYLAND

SCALE	AS SHOWN
DRAWN	CHECKED
ELB	JWC
PROJ. NO.	DATE
J1064	9/94
SHEET	
5	

SDP 94-132



OWNER/DEVELOPER		
M.O.R. DSG LTD. PARTNERSHIP 7165 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046		
ADDRESS CHART		
LOT NO.	STREET ADDRESS	
E-6	6355 WOODSIDE COURT	
SUBDIVISION NAME		
VOB		
SECTION/AREA	LOT/PARCEL	
5/7	E-6	
PLAT	BLOCK	ZONE/TAX ZONE
11276	14	NT 36
WATER CODE	SEWER CODE	
E-13	5410000	

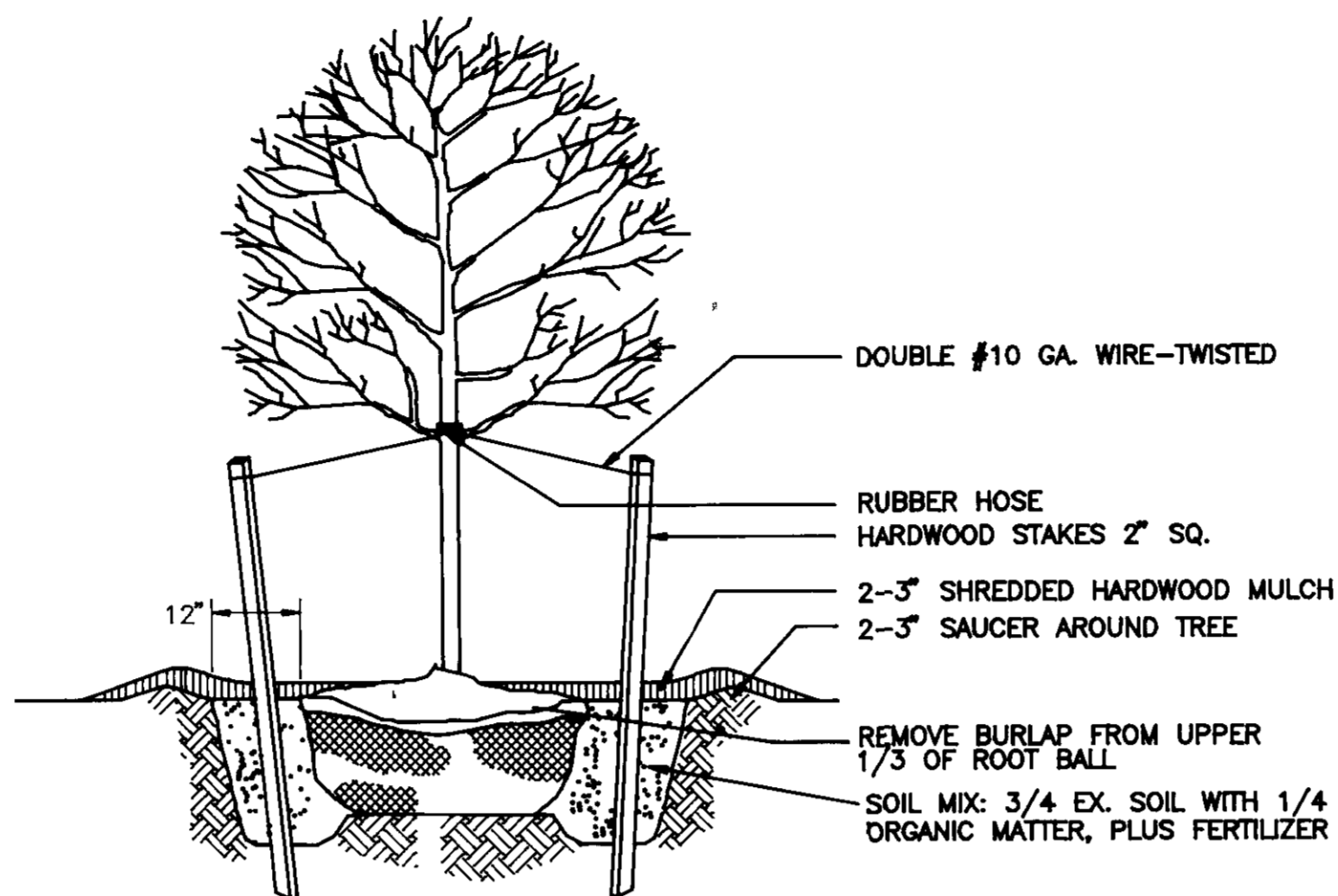
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE _____	APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING DIRECTOR _____ DATE 10/21/94 Anna J. Jaramany CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH COH	APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE 10/16/94 _____ DATE 10/18/94 CHIEF, BUREAU OF ENGINEERING 10/10/94	JOHN V. CLAPSADLE P.E. NO. NO. 16256	prepared by: RBA ENGINEERS • ARCHITECTS • PLANNERS 5360 STERRETT PLACE SUITE 300 COLUMBIA, MARYLAND 21044 410/730-7930	LANDSCAPE PLAN DEVELOPMENTAL SERVICES GROUP OFFICE BUILDING HOWARD COUNTY MARYLAND	SCALE AS SHOWN DRAWN E.L.B. CHECKED J.W.C. PROJ. NO. J1064 DATE 9/94 SHEET 6 OF 12
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SDP-94-132

SDP 1206-10-7-DWG

PLANTING NOTES

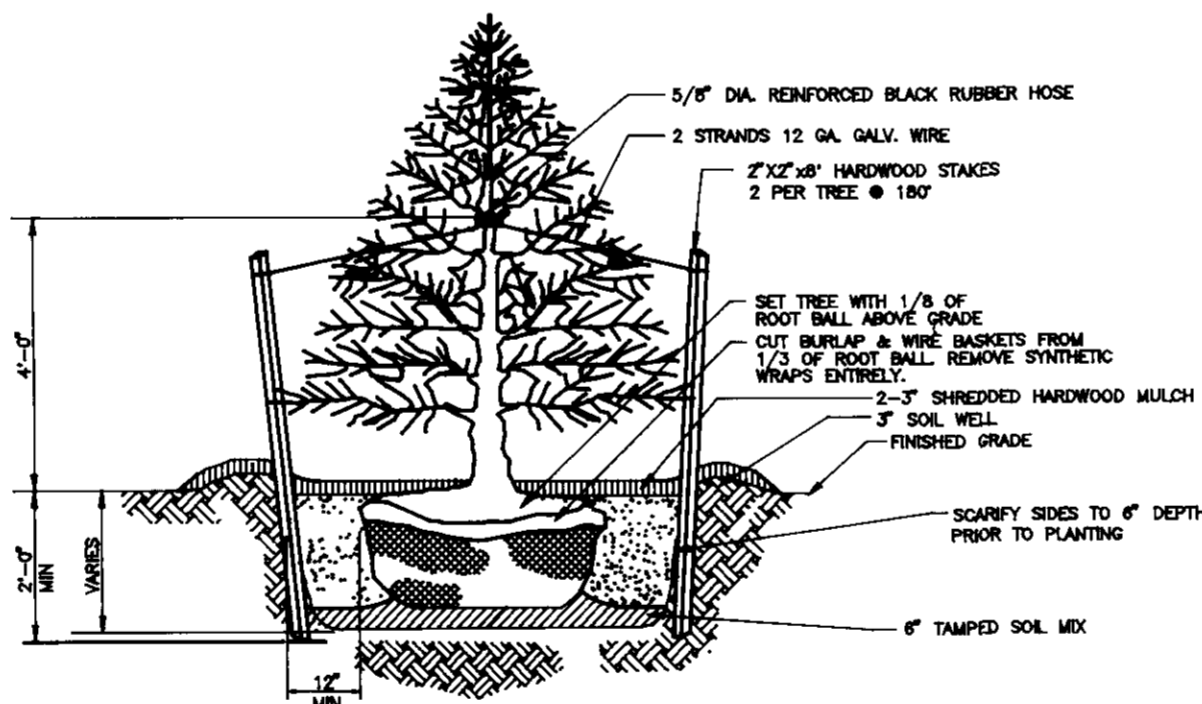
- Botanical names shall prevail over common names.
- No plant substitutions shall be made without prior written approval of the Landscape Architect or Owner. At Owner's discretion, specimen or other plant material will be field selected.
- All plant material shall be nursery grown, no collected materials shall be accepted.
- Plants shall conform with the American Association of Nurserymen standards.
- All replacements shall be plants of the same kind and size as specified in the plant list, or as is necessary to match surviving plants of the same planting group. All costs shall be borne by the Landscape Contractor except for replacements resulting from loss or damage due to vandalism or acts of neglect on the part of others, physical damage by animals, vehicles, fire, etc. as may be determined by the Landscape Architect or Owner.
- Quantities shown on the Contract Drawings take precedence over plant materials list.
- All planting soil in parking islands and medians to have a maximum 4 to 1 slope from crown of root ball down to back of curb.
- Landscape contractor to verify location of utilities prior to planting and shall notify Miss Utility 72 hours prior to construction.
- Remove top 1/3 or metal baskets from root balls when the root ball has been positioned in the planting pit; provide support as necessary to protect the root ball from injury during this operation.
- Soil mix for trees, shrubs and perennials shall be three parts topsoil and one part organic matter, either spagnum peat moss or dehydrated cow manure.
- All plant beds, except as specifically noted, are to be topped with a 2" - 3" layer of pine bark mulch. Mulch shall be well-aged, fine-shredded hardwood, uniform in size and free of foreign matter.
- Seed or sod all disturbed areas that are not otherwise planted. Sod shall be Maryland State Certified Sod and a certification label should accompany each load. For the periods March 1 through April 30 and August 1 through October 15, grass seed used shall be 95-100% Maryland Certified Turf-Type Tall Fescue. Certified Kentucky Bluegrass may be added at up to 5%. Apply Tall Fescue mixtures at the rate of 5-8 lbs. of mix per 1,000 square feet. Apply Bluegrass mixtures at the rate of 1 - 3 lbs. of mix per 1,000 square feet. For permanent seeding during other periods and for temporary seeding, refer to Sediment and Erosion Control Notes.
- For soil amendments, refer to Sediment and Erosion Control Notes.
- All lawn areas shall be mulched with straw that is free of rot, mildew, noxious weeds, or cellulose fiber.
- Maintenance shall begin immediately after each plant is planted, and shall continue until acceptance. Plants shall be watered, mulched, weeded, pruned, sprayed, fertilized, cultivated, and otherwise maintained and protected until acceptance of work. Settled plants shall be reset to a proper grade and position, planting saucer restored, and dead material removed. Guys shall be tightened and repaired. Defective work shall be corrected as soon as possible after it becomes apparent.
- Landscape Contractor shall coordinate plant material installation with General Contractor and Utilities Contractor.



- THIN BRANCHES BY 1/3, RETAINING NORMAL TREE SHAPE.
- NEVER CUT CENTRAL LEADER.
- SET TREE WITH 1/8 ROOT BALL ABOVE GRADE.
- STAKES, WIRES & HOSES SHALL BE REMOVED AFTER ONE YEAR.
- SCARIFY SUBSOIL TO A MIN. 4" DEPTH.
- PLACE STAKES PARALLEL TO WALKS.

TREE PLANTING DETAIL

NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

PLANT LIST

TOTAL QUAN	PHASE I QUAN	PHASE II QUAN	SIZE	PLANT NAME	ROOT	REMARKS
14	14	0	3"-3 1/2" CAL.	ACER RUBRUM 'ARMSTRONG' ARMSTRONG RED MAPLE	B&B	COLUMNAR FORM
7	7	0	18"-24"	AZALEA SATSUKI HYBRID-WHITE DWARF AZALEA	CONTAINER	
1	1	0	14-16" HT. CLUMP	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	SPECIMEN HEAVY
3	3	0	5-6' HEAVY	CHIONANTHUS VIRGINICUS WHITE FRINGETREE	B&B	MOVE SPRING
16	16	0	18"-24"	EUONYMUS ALATUS COMPACTUS DWARF BURNING BUSH	B&B	3 1/2' O.C.
18	18	0	18"-24"	ILEX CORNUTA 'ROTUNDA' DWARF CHINESE HOLLY	CONTAINER	3' O.C.
8	8	0	18"-24"	JUNIPERUS HORIZONTALIS 'PLUMOSA' ANDORRA JUNIPER	CONTAINER	3' O.C.
9	9	0	QUART	PENNISETUM ALOPECUROIDES 'HAMELN' DWARF FOUNTAIN GRASS	CONTAINER	
14	14	0	8-10'	PICEA OMORICA SERBIAN SPRUCE	B&B	10' O.C.
45	40	5	8-10'	PINUS STROBUS WHITE PINE	B&B	10' O.C.
11	6	5	3"- 3 1/2" CAL.	PRUNUS SERRULATA 'KWANZAN' KWANZAN CHERRY	B&B	SPECIMEN MATCH
9	9	0	3"- 3 1/2" CAL.	QUERCUS PALUSTRIS PIN OAK	B&B	MOVE SPRING
33	28	5	3"- 3 1/2" CAL.	QUERCUS PHELLOS WILLOW OAK	B&B	MOVE SPRING
28	28	0	30"- 36"	TAXUS X MEDIA 'HATFIELDI' HATFIELD YEW		

SCHEDULE A- PERIMETER LANDSCAPE EDGE

ADJACENT TO ROADWAYS

TYPE/BUFFER REQ'D	LENGTH	CREDIT FOR EXISTING VEGETATION	PLANTS REQUIRED: (BEFORE CREDIT) AFTER CREDIT	PHASE I PROPOSED PLANTS
NON-RESIDENTIAL SIDE TO ROADWAY- TYPE B	100'	YES, 100'	SHADE TREES (2) EVERGREEN TREES (3) SHRUBS (0)	SHADE TREES 7 EVERGREEN TREES 6 SHRUBS 0
PARKING TO ROADWAY- TYPE E	180'	YES, 180'	SHADE TREES (5) EVERGREEN TREES (0) SHRUBS (45)	SHADE TREES 5 EVERGREEN TREES 0 SHRUBS 0

ADJACENT TO OTHER PERIMETERS

TYPE-BUFFER REQ'D	LENGTH	CREDIT FOR EXISTING VEGETATION	PLANTS REQUIRED: (BEFORE CREDIT) AFTER CREDIT	PHASE I PROPOSED PLANTS
NON-RESIDENTIAL TO NON-RESIDENTIAL USES- TYPE A	850'	YES, 70'	SHADE TREES (16) EVERGREEN TREES (0) SHRUBS (0)	SHADE TREES 10 EVERGREEN TREES 34 SHRUBS 0

SCHEDULE B- PARKING LOT LANDSCAPING

NUMBER OF PARKING SPACES (PHASE I)	105
NUMBER OF TREES REQ'D (1:20)	5
NUMBER OF TREES PROVIDED (SHADE TREES (PHASE I))	17

OWNER/DEVELOPER
M.O.R. DSG LTD. PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA MARYLAND 21046

ADDRESS CHART
LOT NO. STREET ADDRESS
E-6 6355 WOODSIDE COURT

SUBDIVISION NAME SECTION/AREA LOT/PARCEL
VOB 5/1 E-6

PLAT BLOCK ZONE/TAX ZONE MAP/ELEC. DIST. CENSUS TR.
11276 14 NT 36 6 6067.01

WATER CODE SEWER CODE
E-13 5410000

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

COUNTY HEALTH OFFICER DATE

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

DIRECTOR DATE 10/21/94

CLM MUMFORD DATE 10/21/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH CDH

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

DIRECTOR DATE 10/18/94

JOHN W. CLAPSADZLE P.E. DATE 10/18/94
CHIEF, BUREAU OF ENGINEERING

REVISED BY: [Signature]

DATE: 9/1/94

PREPARED BY: [Signature]

DATE: 9/1/94

RBA ENGINEERS - ARCHITECTS - PLANNERS

3560 STERRETT PLACE SUITE 300
COLUMBIA MARYLAND 21044
410/730-7950

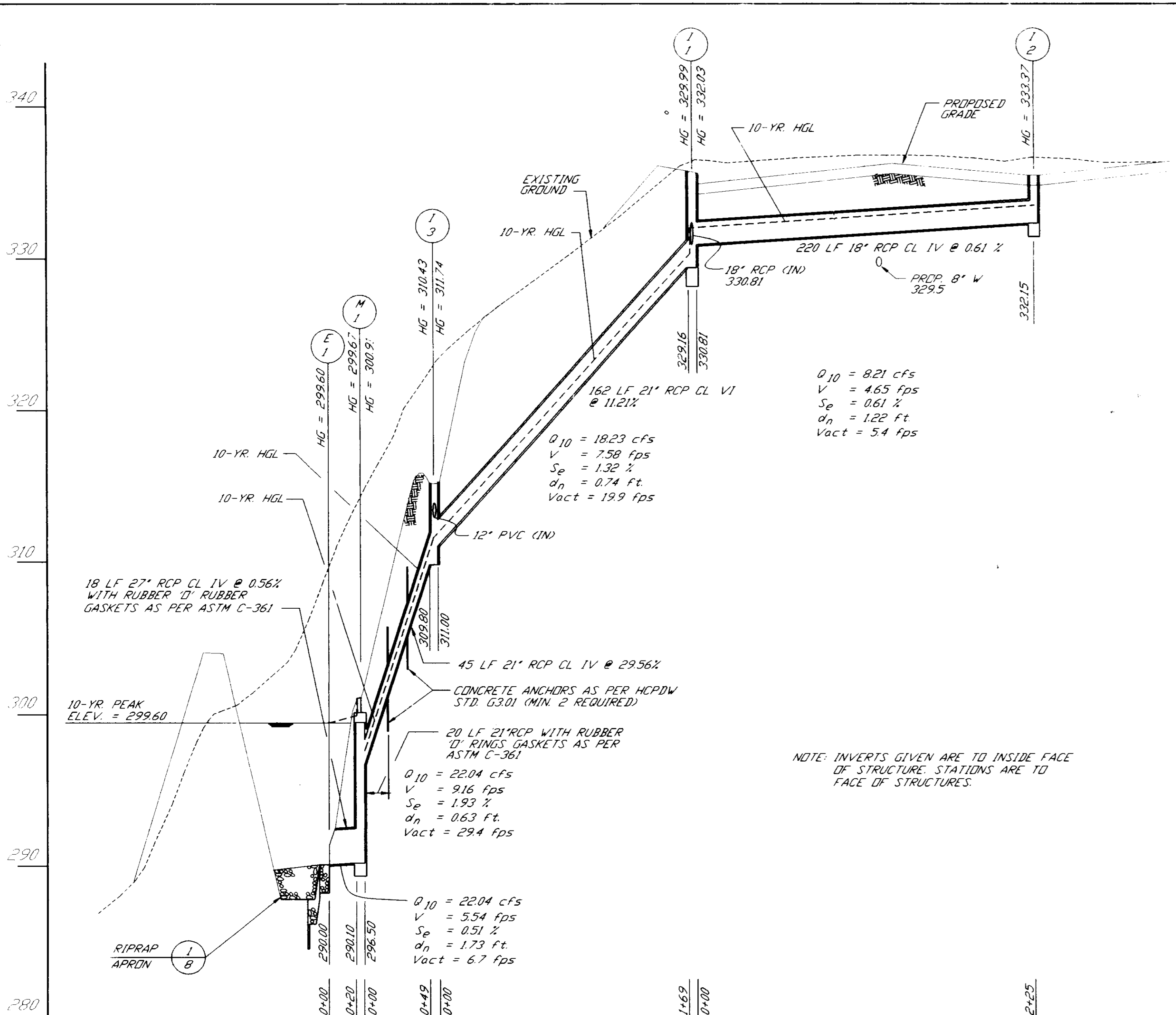
LANDSCAPE DETAILS

DEVELOPMENTAL SERVICES GROUP
OFFICE BUILDING

HOWARD COUNTY MARYLAND

SCALE AS SHOWN
DRAWN BY ELB
PROJ. NO. 11064
SHEET 7 OF 12
CHECKED BY JWC
DATE 9/94

SDP 94.132



STORM DRAIN PROFILE
HORIZ 1"=50'
VERT. 1"=5'

STRUCTURE SCHEDULE

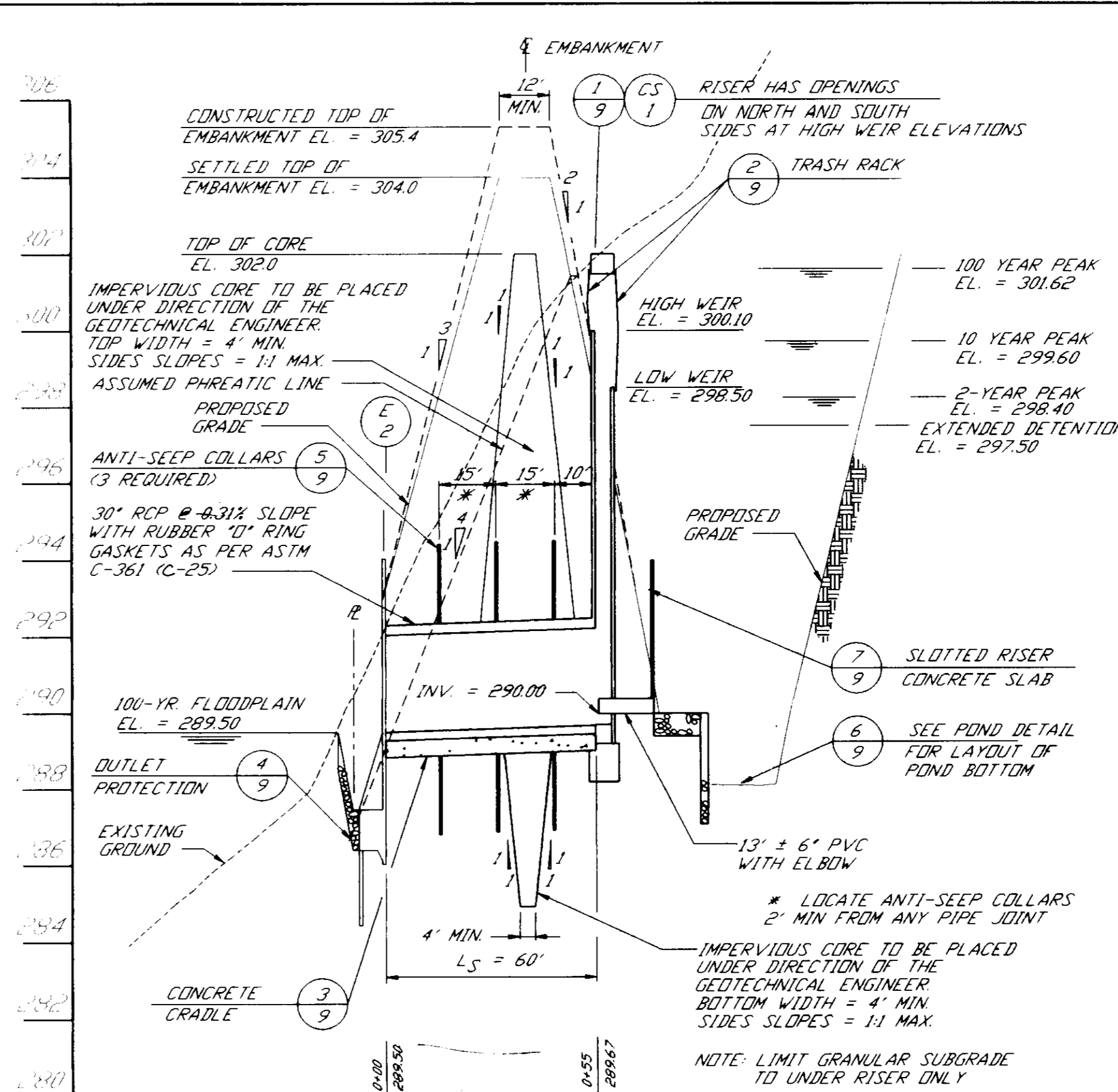
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		IN	OUT	UPPER	LOWER	
I-1	A-10 INLET	28330.81	229.16	335.50	335.50	HCDPW STD S04.02
I-2	DOUBLE 5" INLET		332.15	335.40		HCDPW STD S04.23
M-1	4'-0" PRECAST MANHOLE	296.50	290.10	301.00		HCDPW STD G5.12
I-3	TYPE 'D' INLET	311.00	309.80	315.00		HCDPW STD S04.11
E-1	CONC. END SECTION (27')		290.00			HCDPW STD S05.52
E-2	TYPE 'A' HEADWALL (60')					HCDPW STD S05.11
CS-1	CONTROL STRUCTURE					

- NOTES:
- ALL STRUCTURES ARE HOWARD COUNTY STANDARDS UNLESS NOTED OTHERWISE.
 - PROVIDE RECTICULAR GRATES AS PER HCDPW STD. S04.93.
 - PROVIDE FLATTOP SLAB AND BOLT DOWN COVER.
 - SPECIAL DESIGN - REFER TO DETAILS. (1/9)
 - REFER TO OUTLET PROTECTION DETAIL FOR HEADWALL INVERTS.
 - PROVIDE A HEADWALL FOR 60" PIPE.

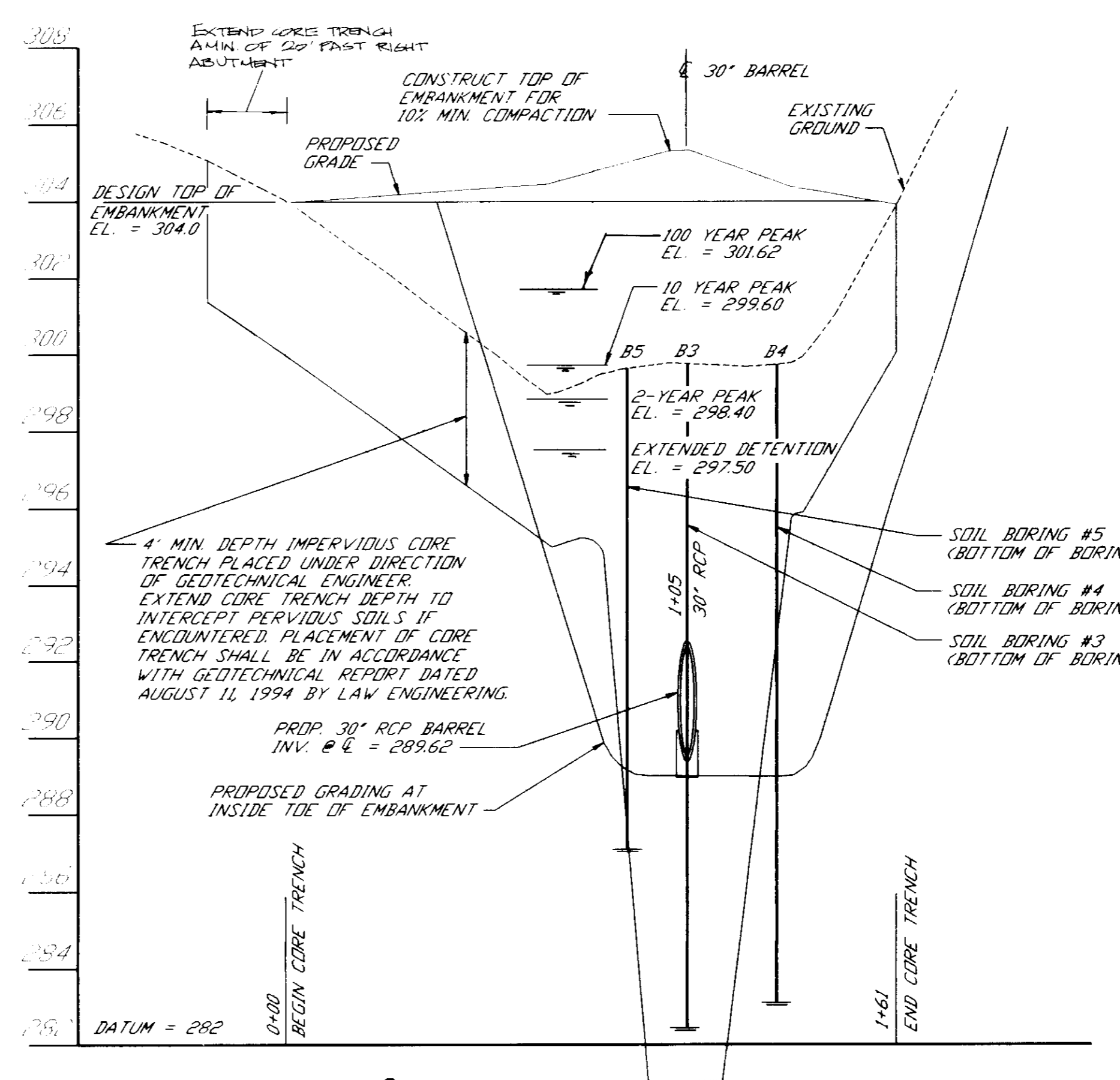
PIPE SCHEDULE

SIZE	TYPE	LENGTH
12"	PVC SCH 40	215 LF
18"	RCP CL IV	220 LF
21"	RCP CL IV	207 LF
27"	RCP CL IV	18 LF
30"	RCP CL IV	66 LF

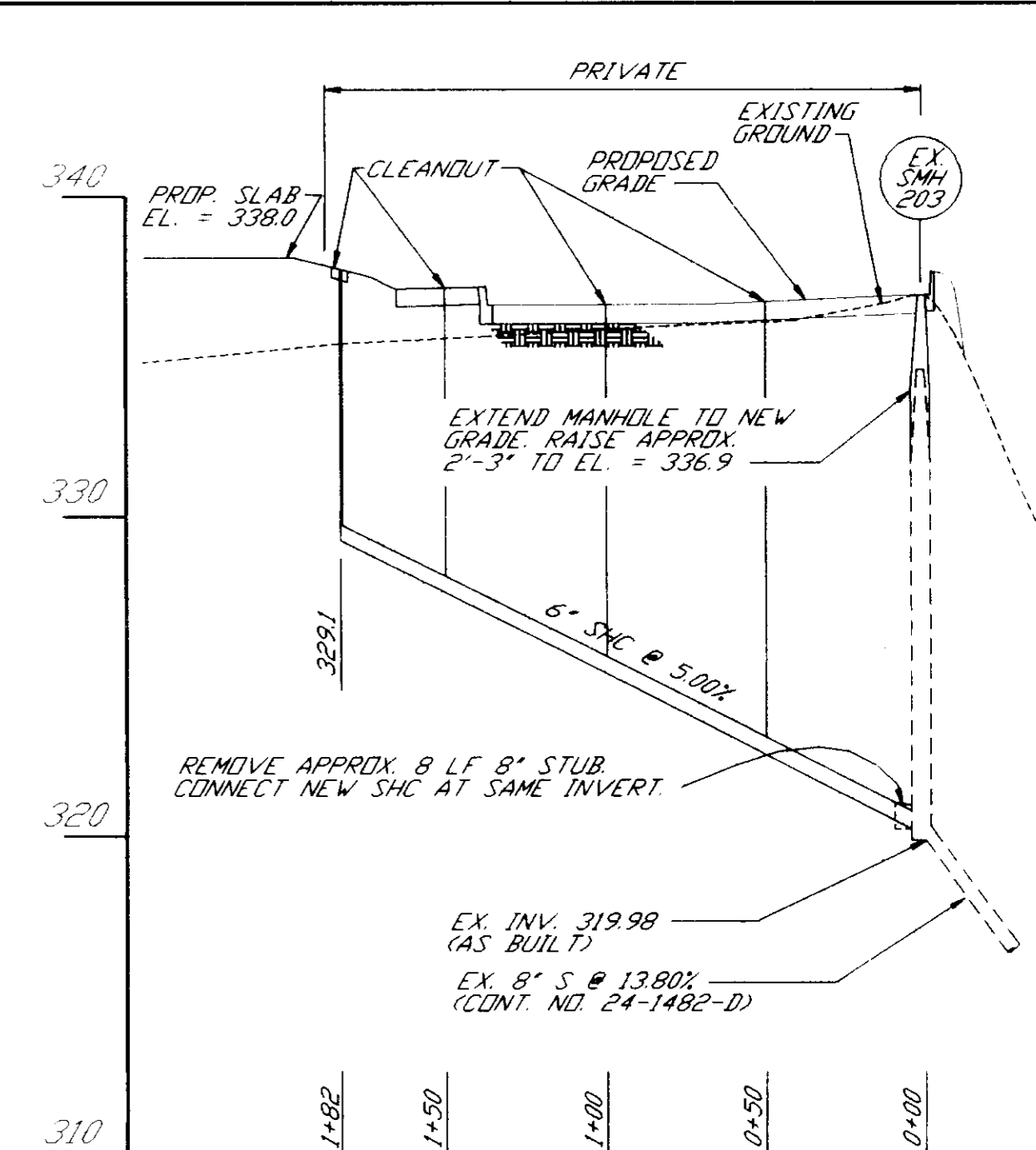
- NOTES:
- ALL PIPE SHALL BE LAID ON A SHAPED SUBGRADE AS PER HCDPW STD. G2.01 UNLESS NOTED OTHERWISE.
 - PIPE THROUGH EMBANKMENT SHALL BE PLACED ON CONCRETE CRADLE AS PER DETAIL. (3/9)



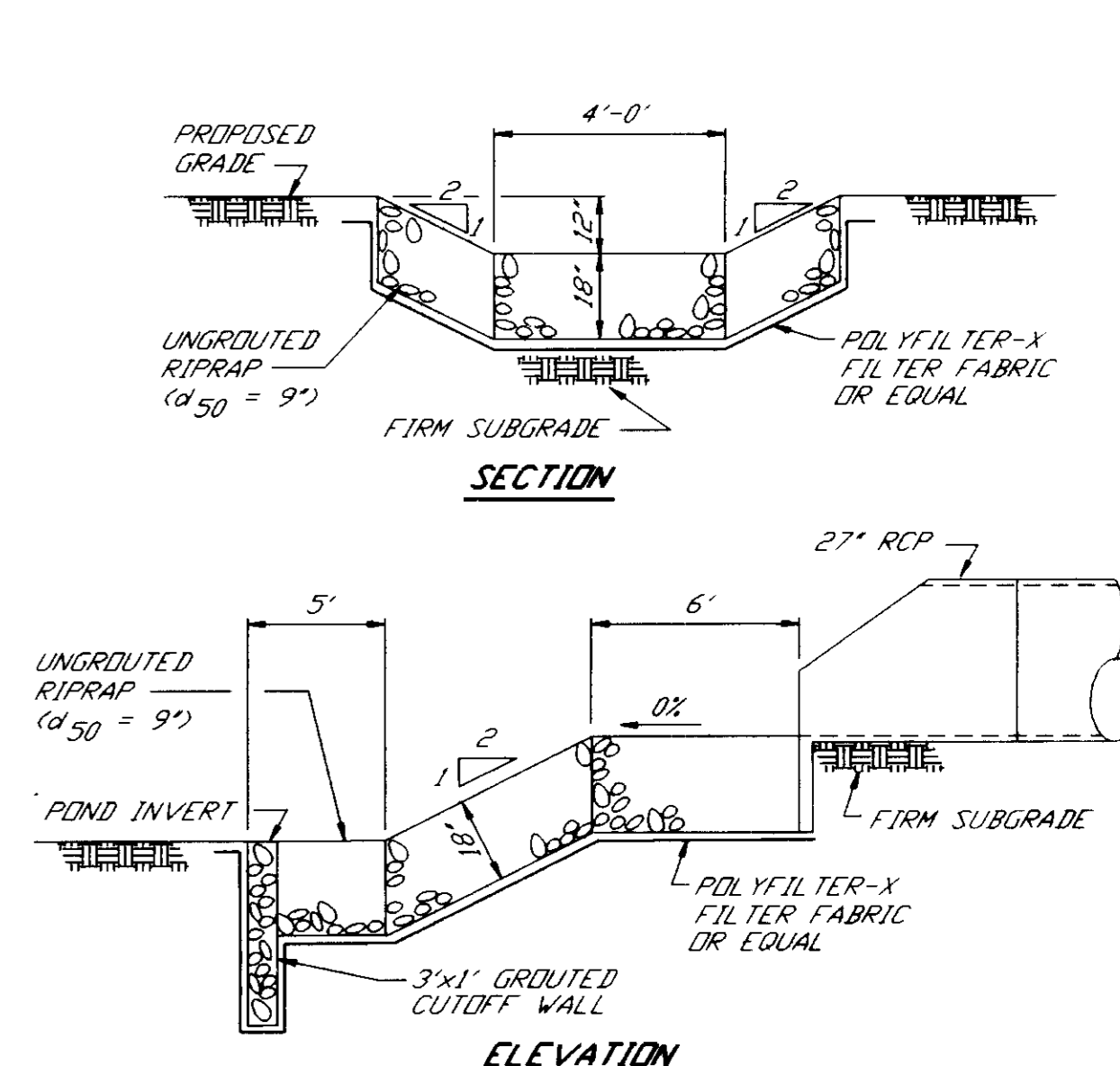
PROFILE THROUGH PRINCIPAL SPILLWAY
HORIZ 1"=30'
VERT. 1"=3'



PROFILE THROUGH EMBANKMENT
HORIZ 1"=30'
VERT. 1"=3'



SHC PROFILE (PARCEL E-6)
HORIZ 1"=50'
VERT. 1"=5'



1 RIPRAP APRON
NO SCALE

OWNER/DEVELOPER
M.O.R. DSG LTD. PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

ADDRESS CHART
LOT NO. STREET ADDRESS
E-6 6355 WOODSIDE COURT

APPROVED: 9/1/94
CCH

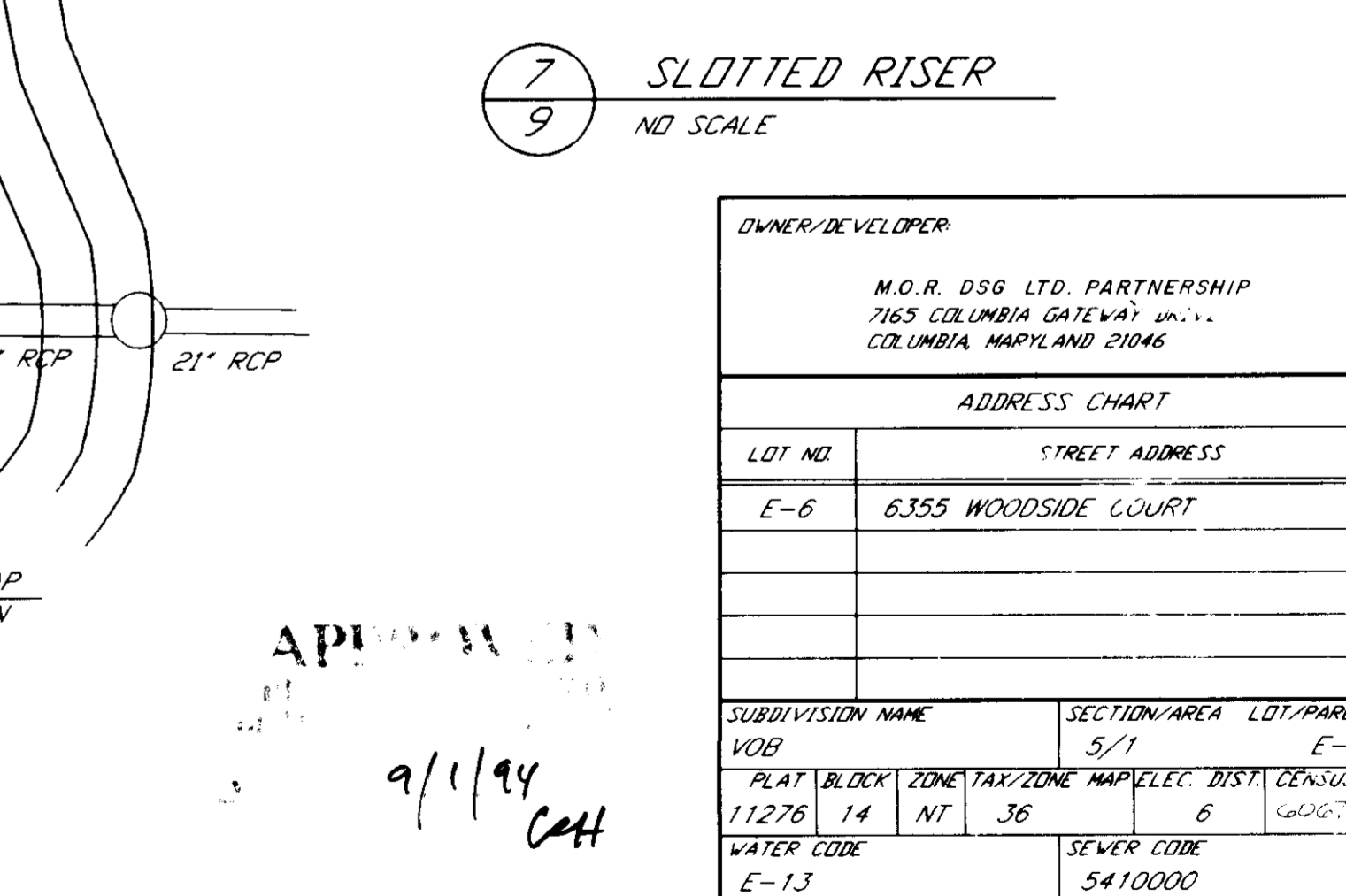
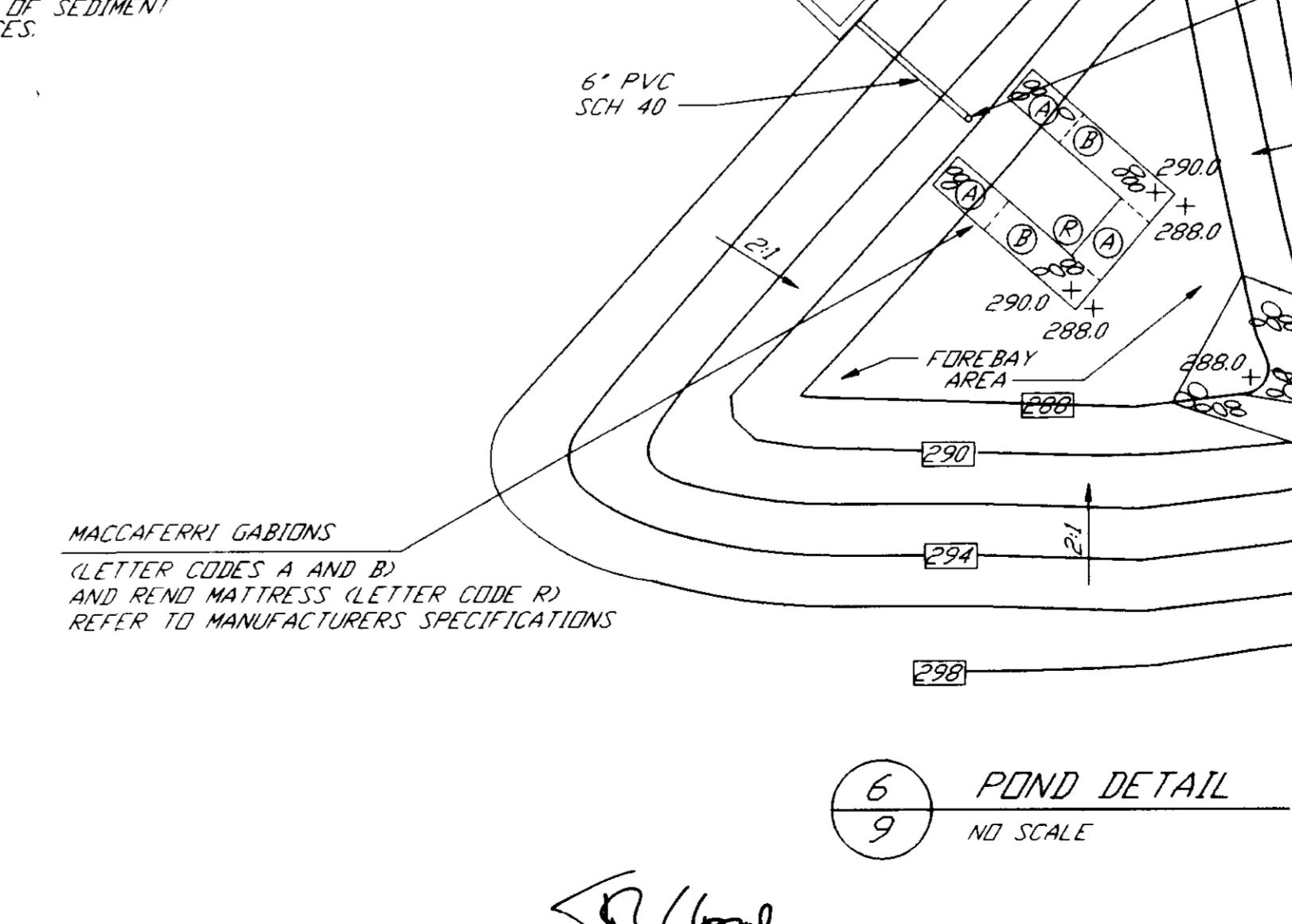
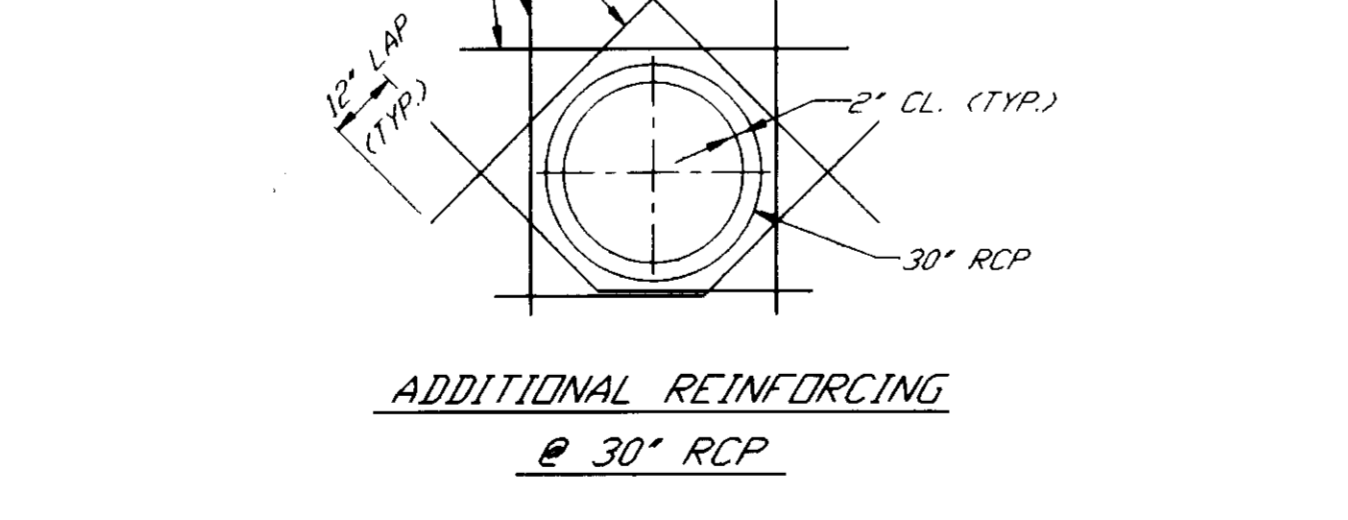
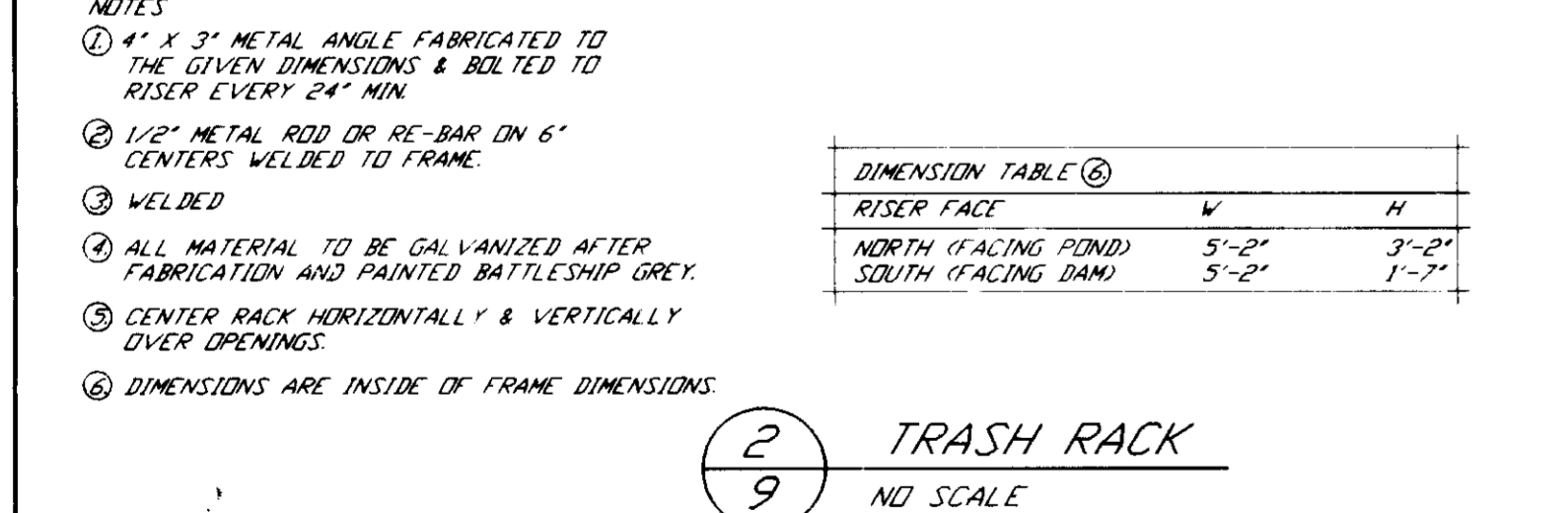
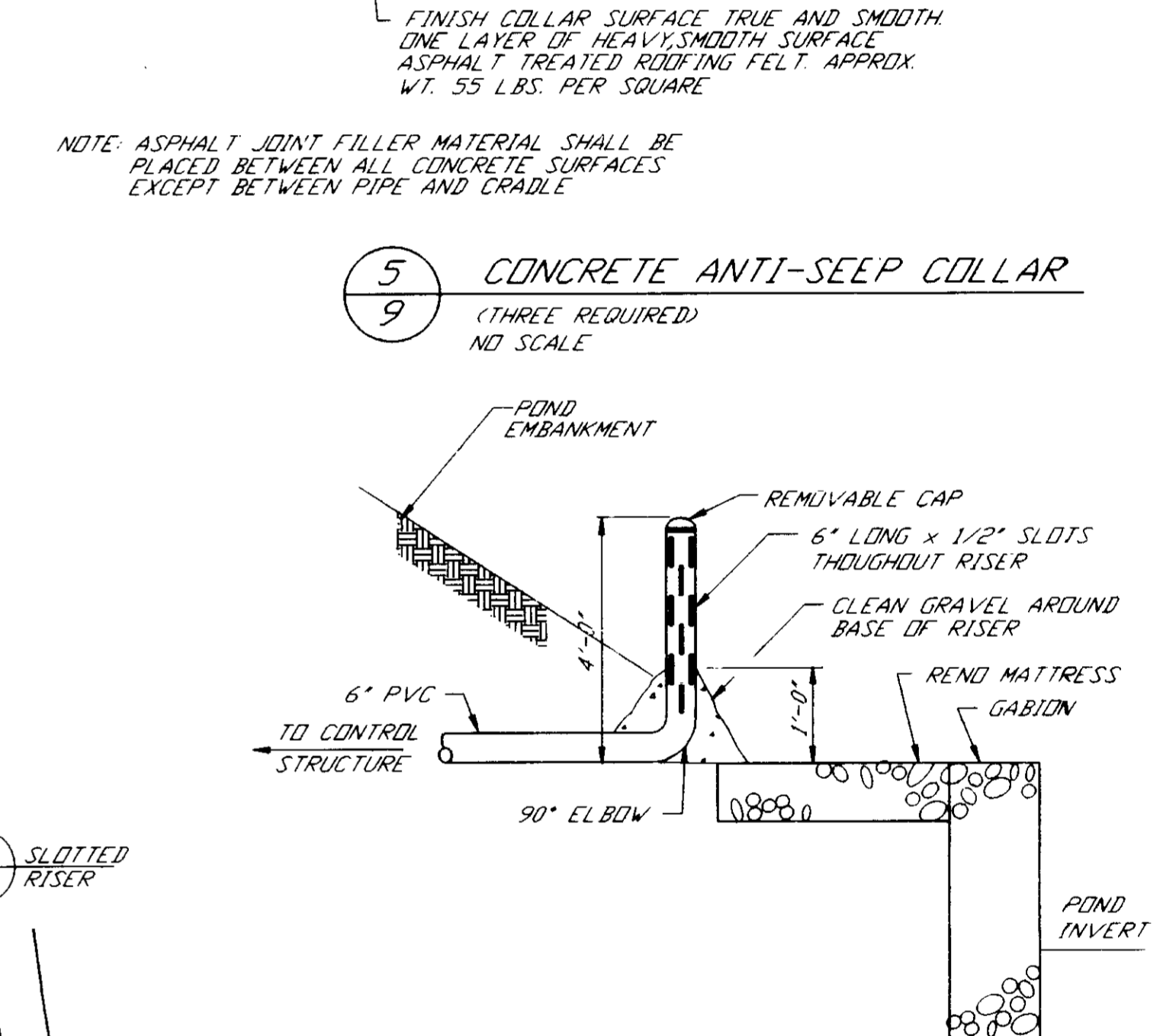
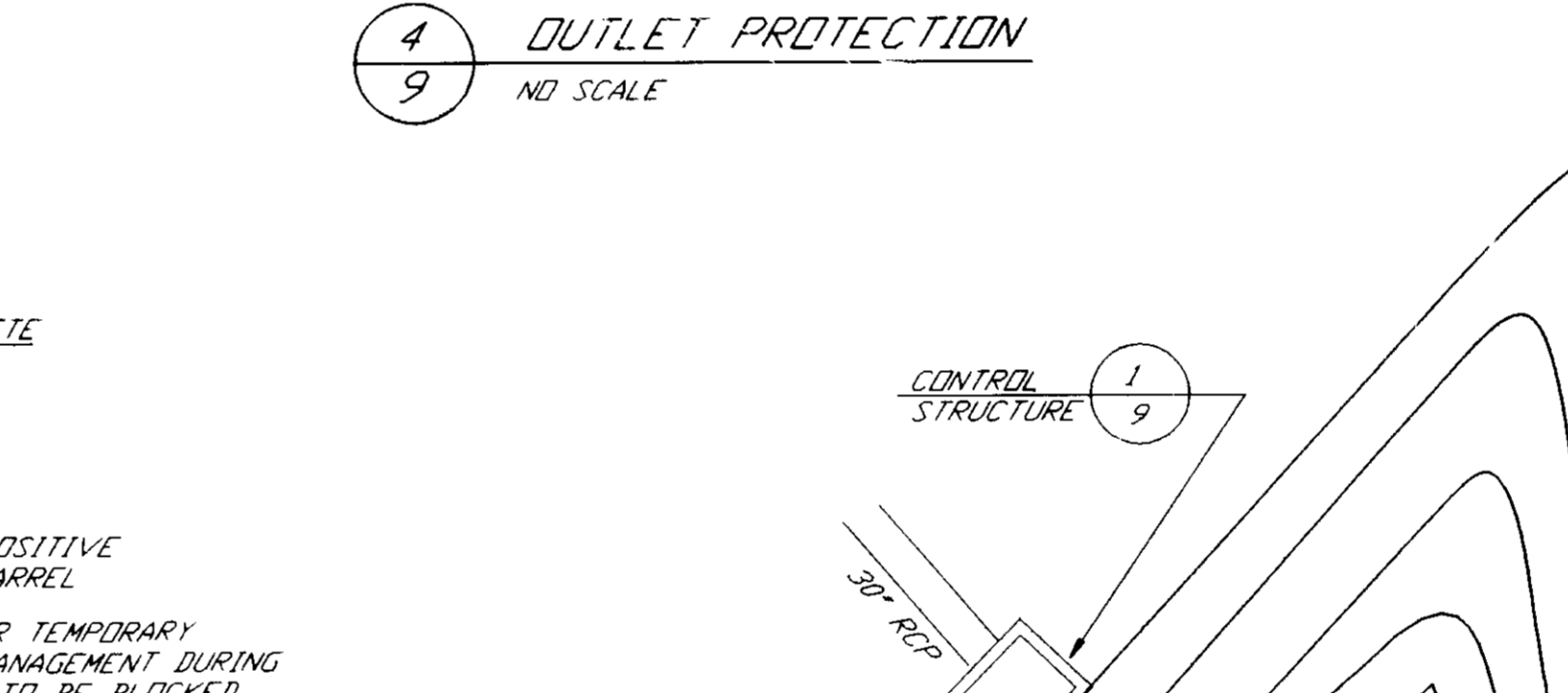
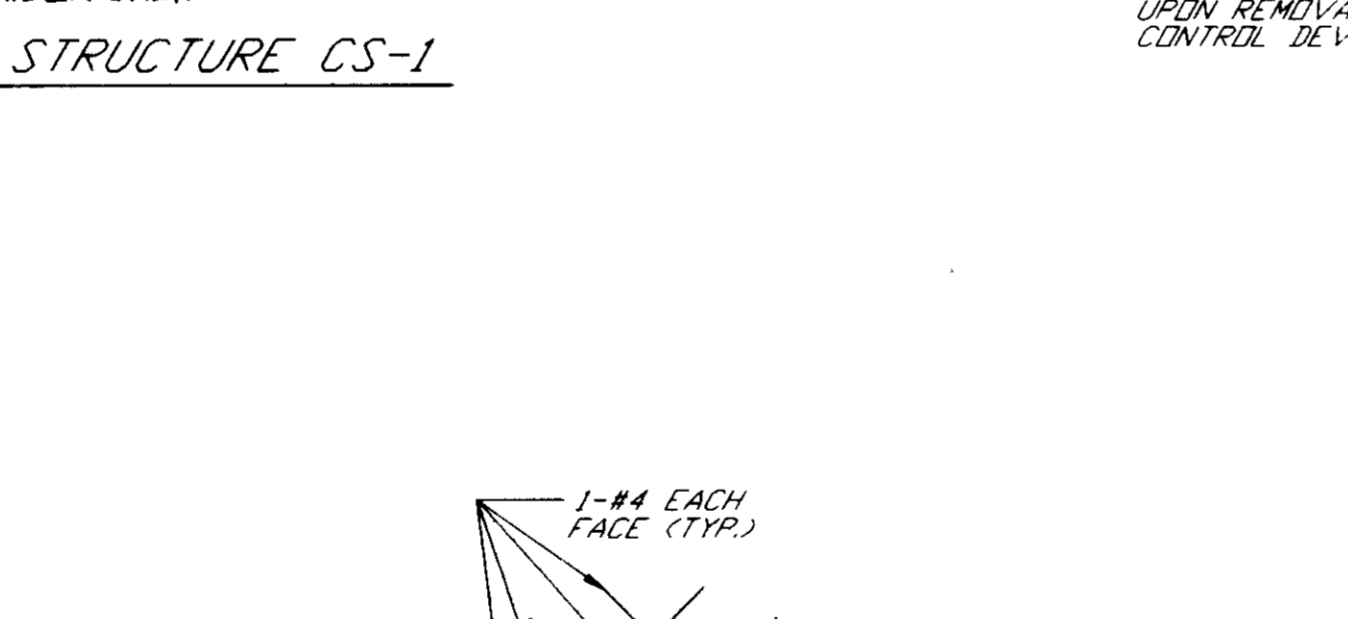
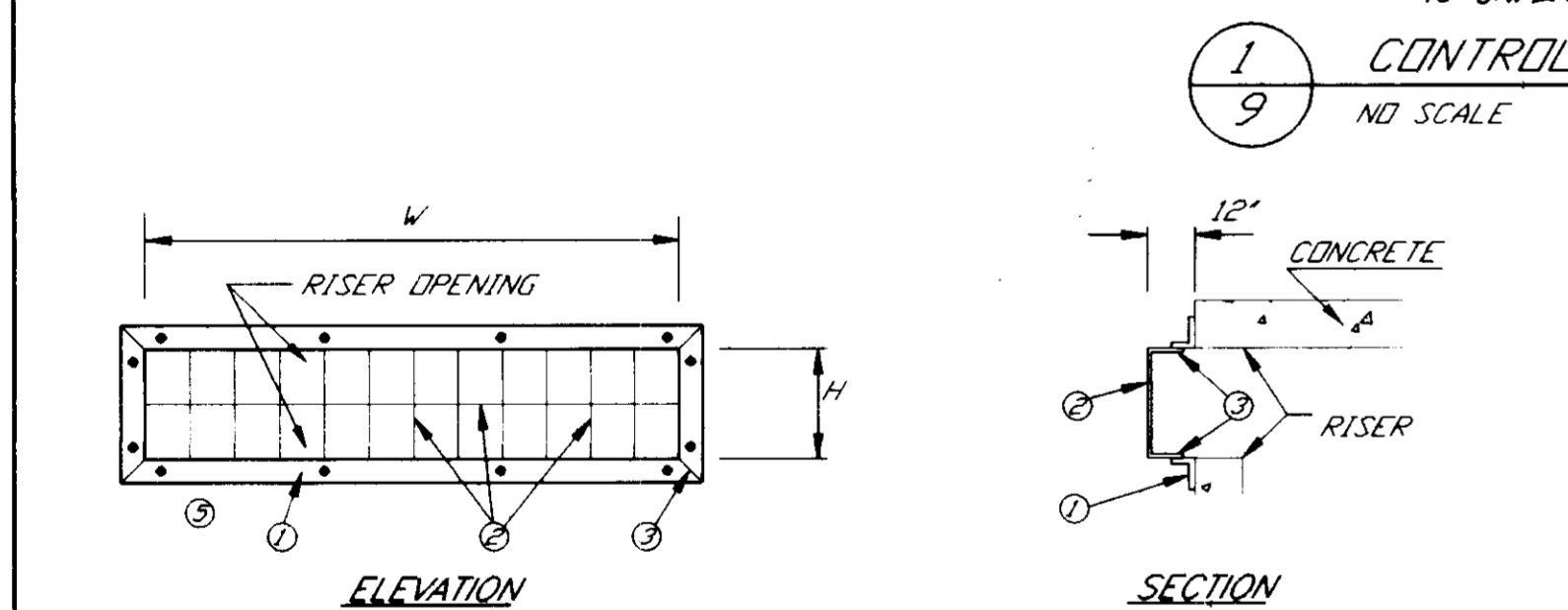
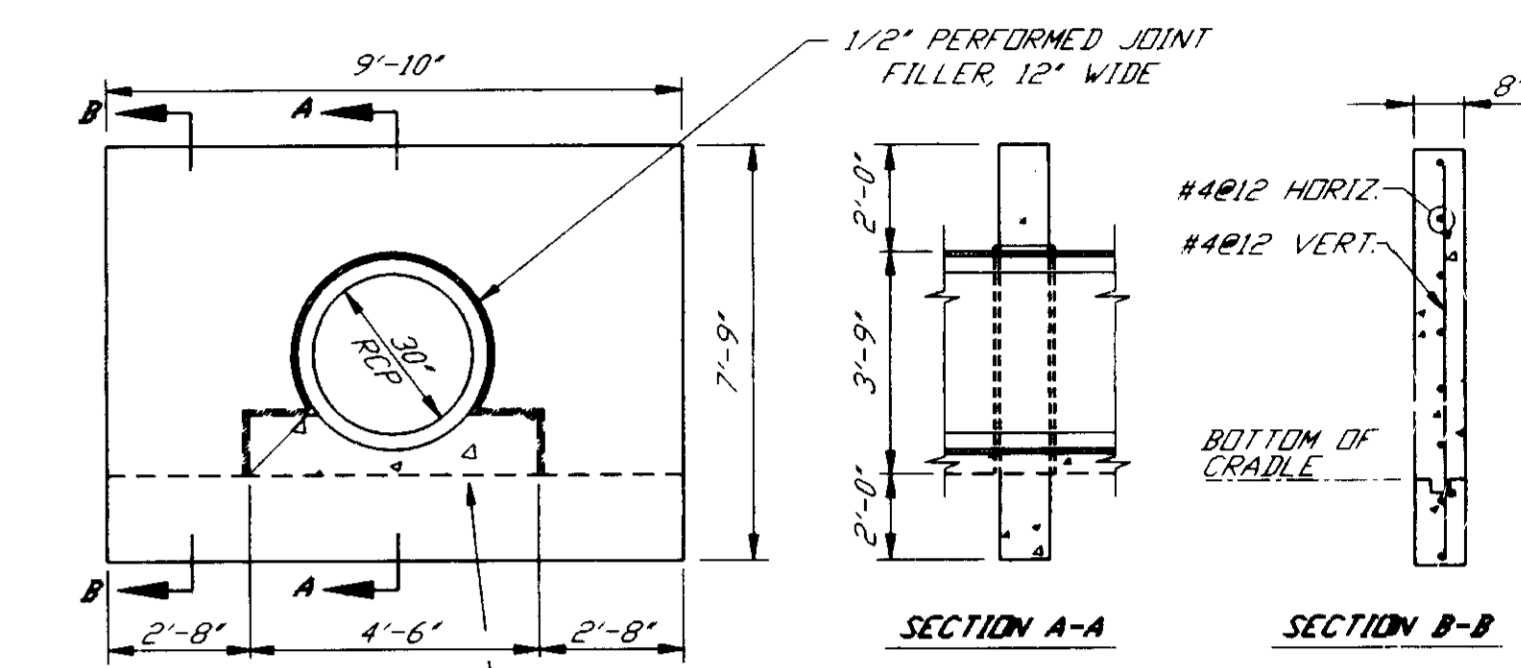
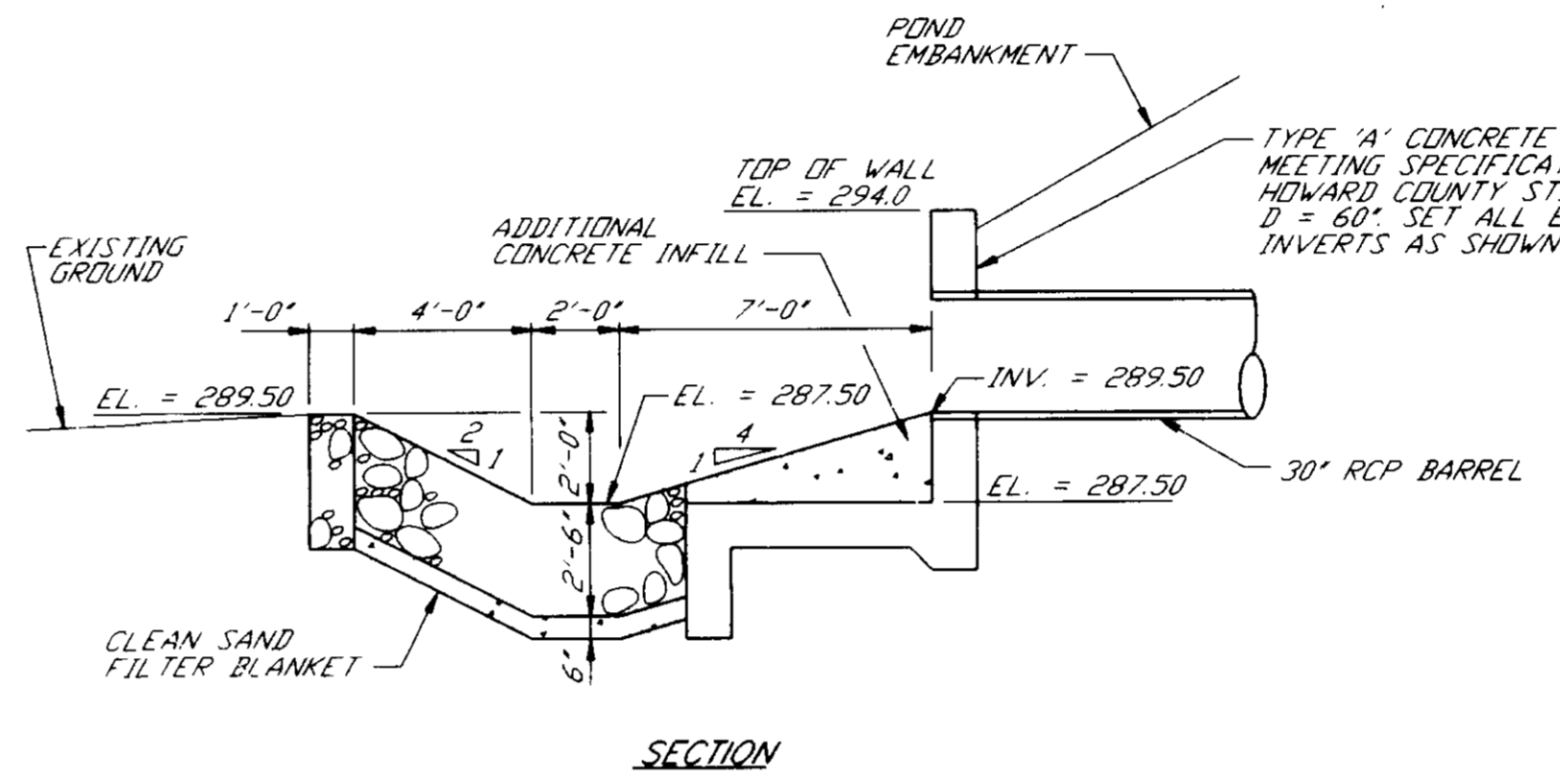
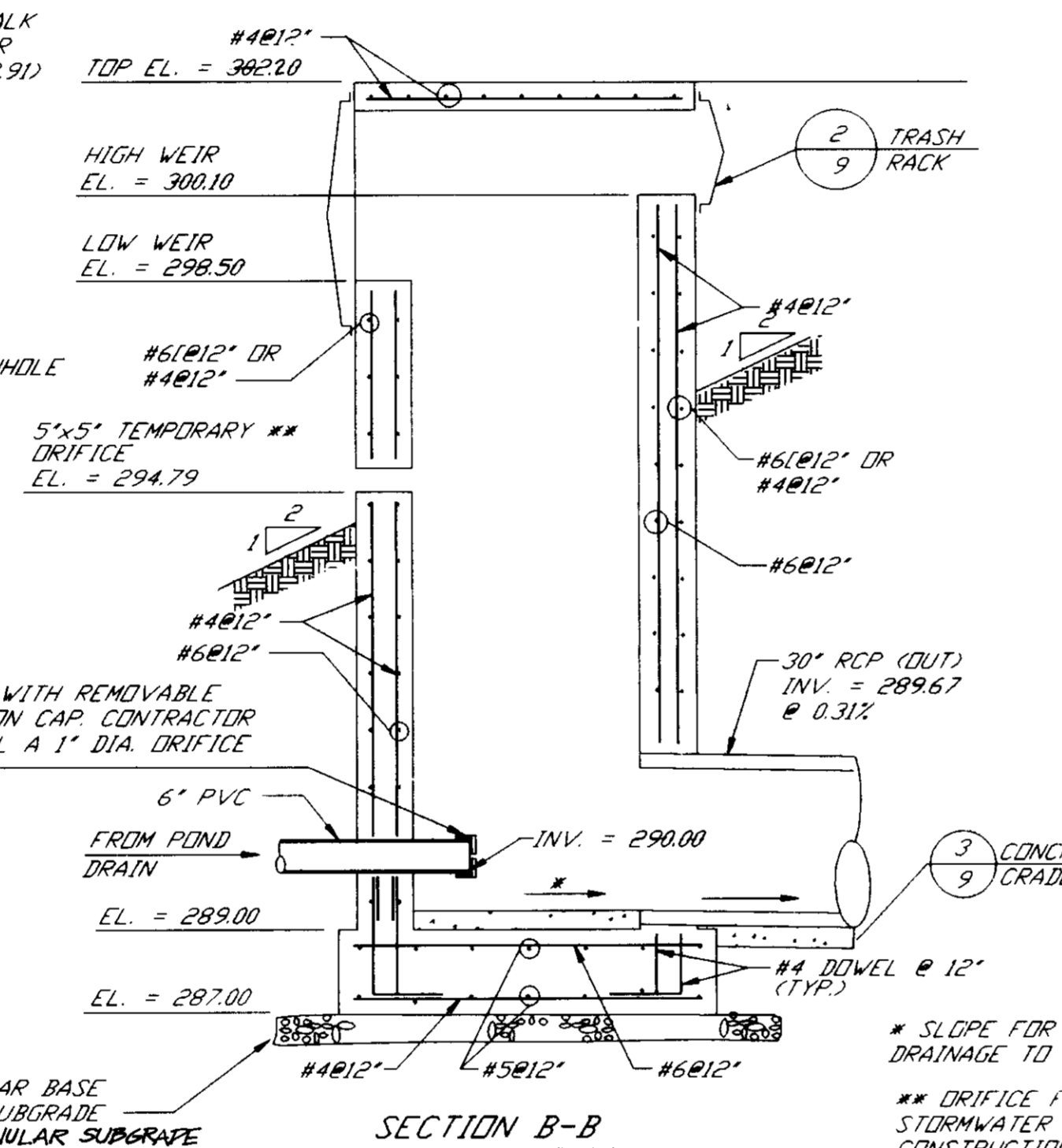
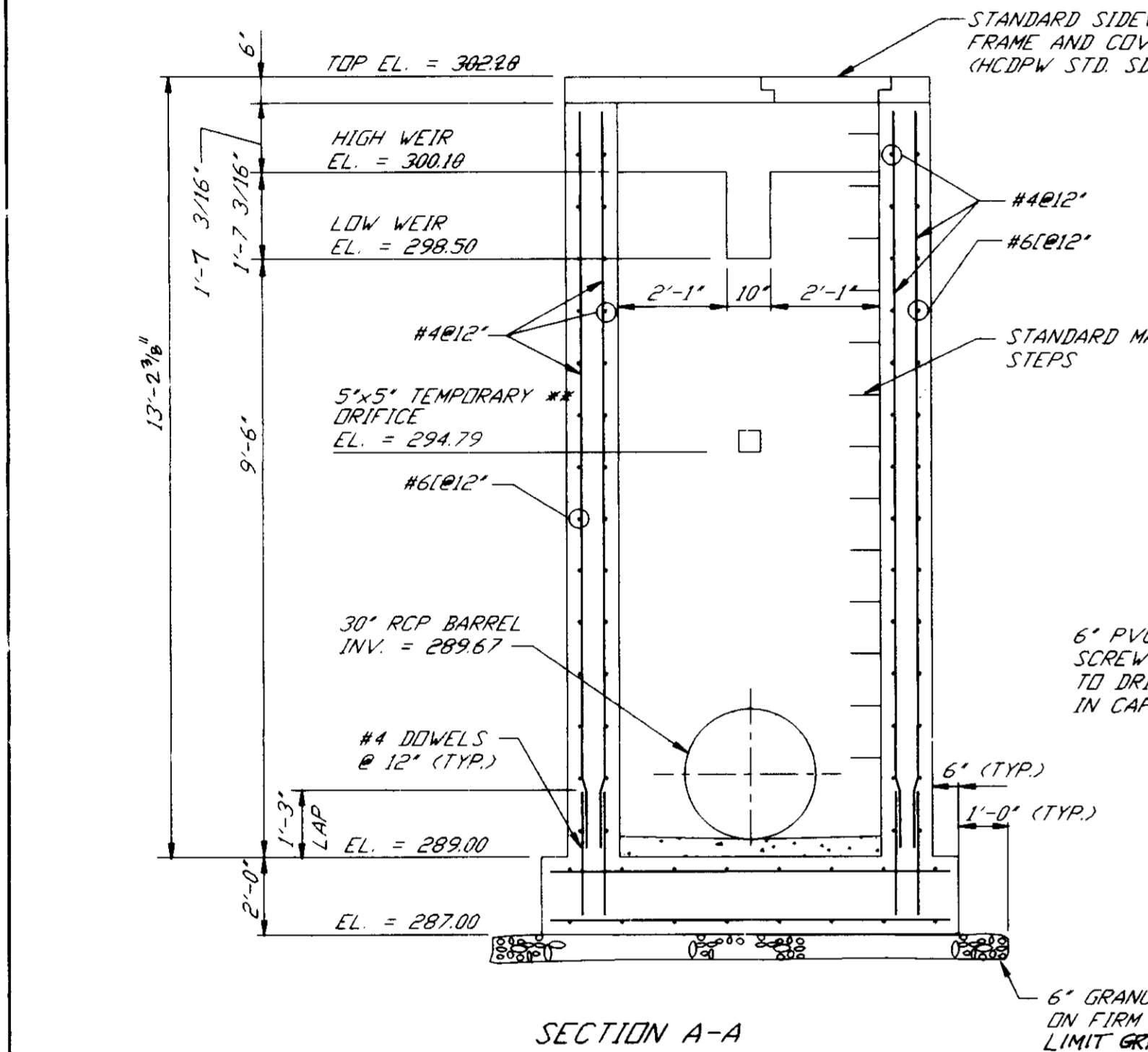
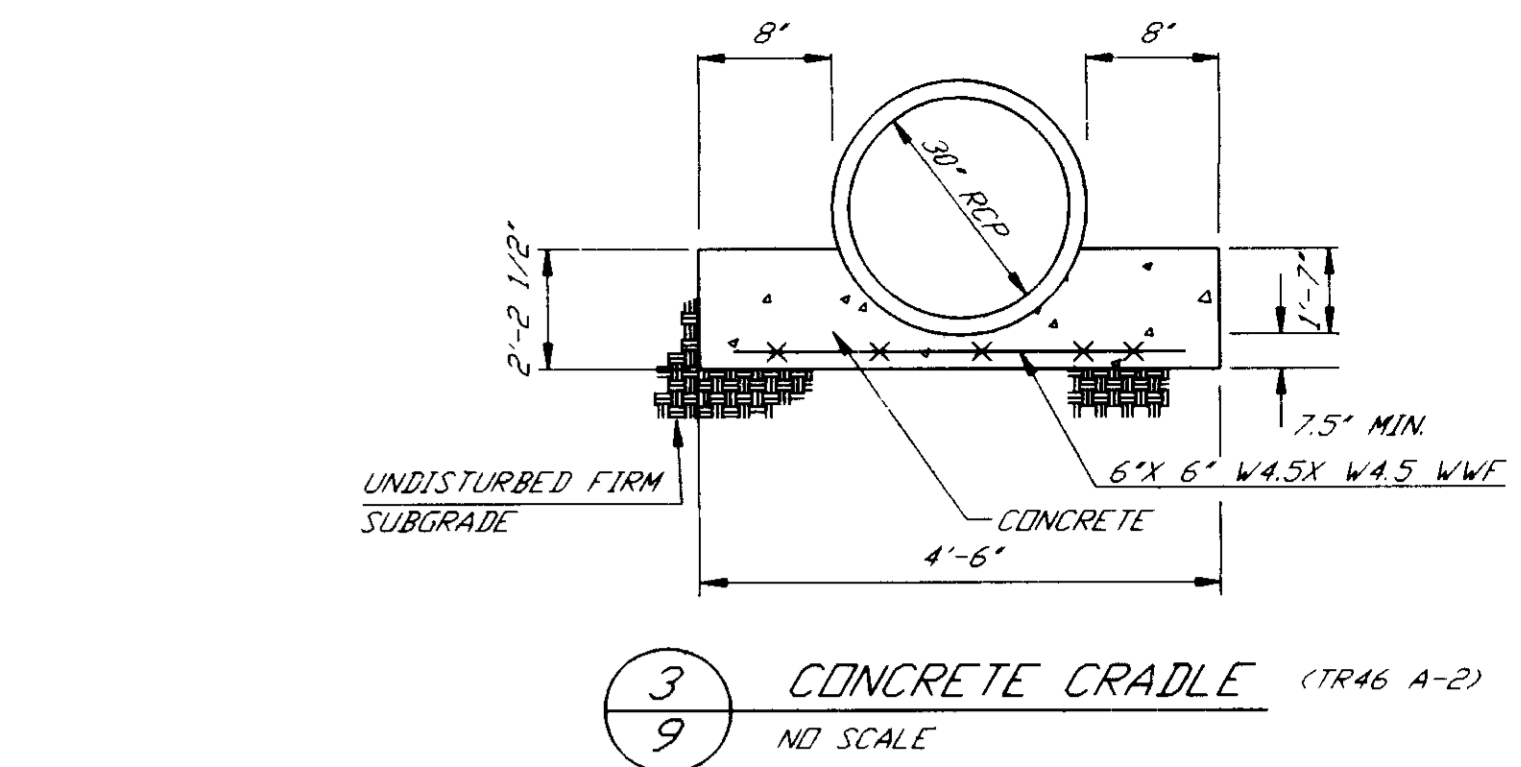
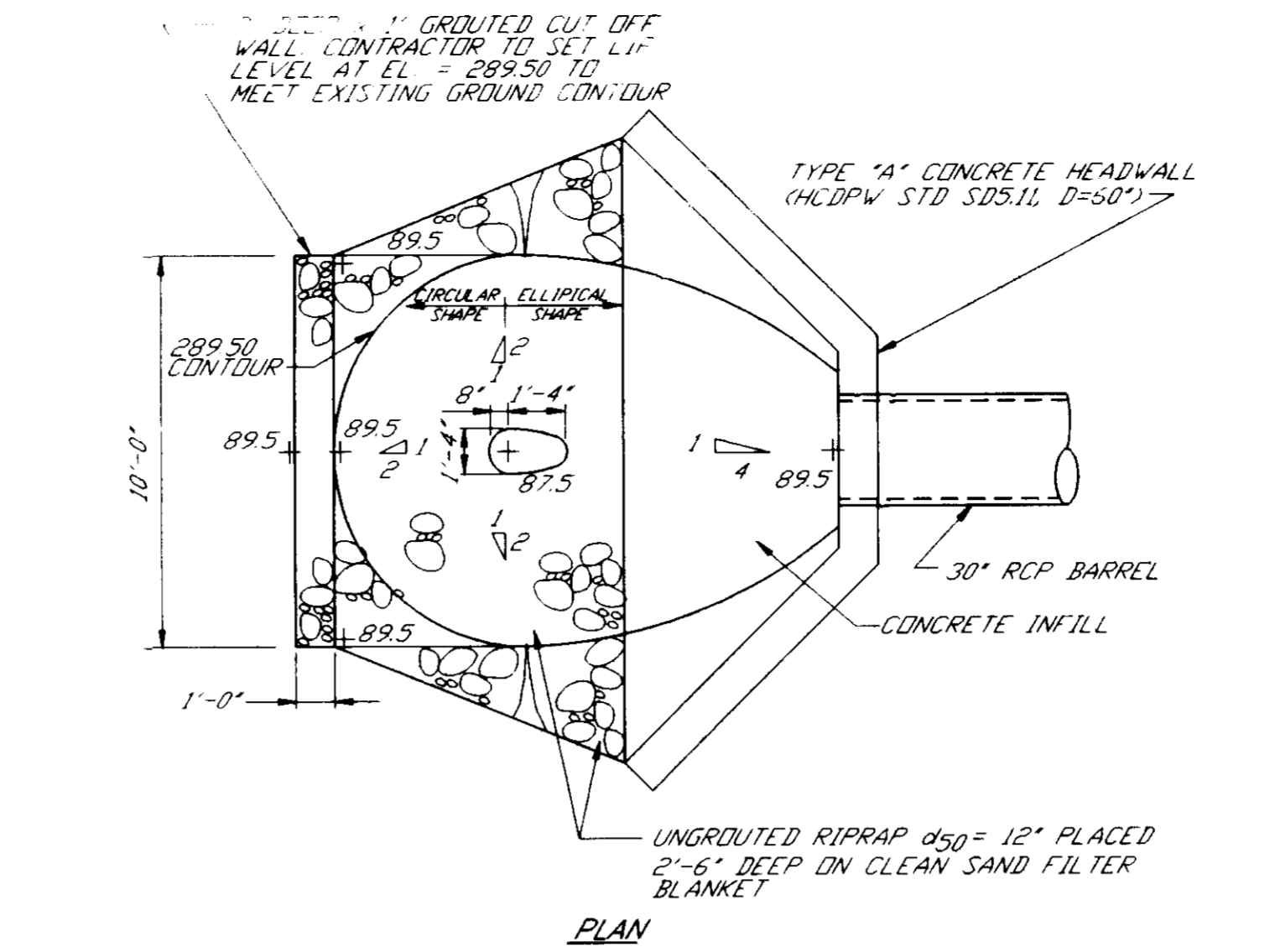
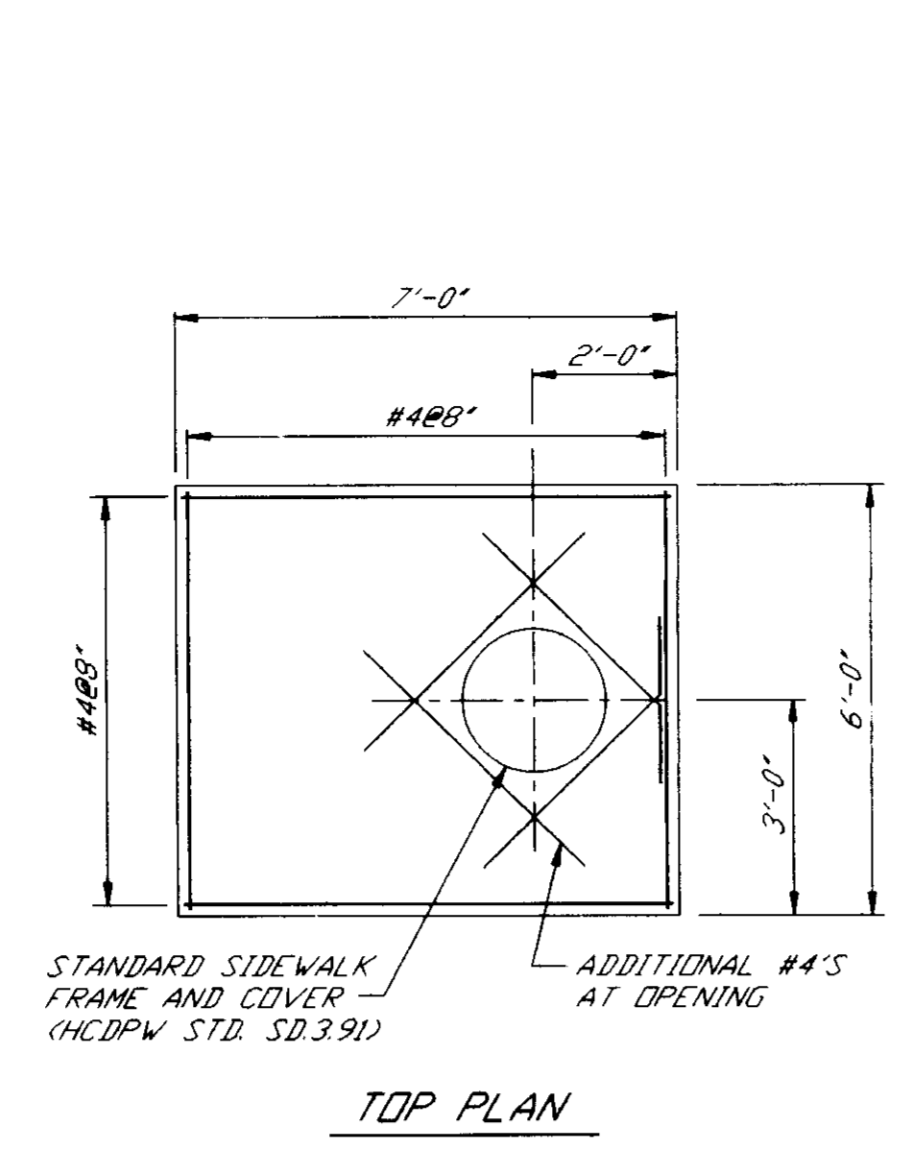
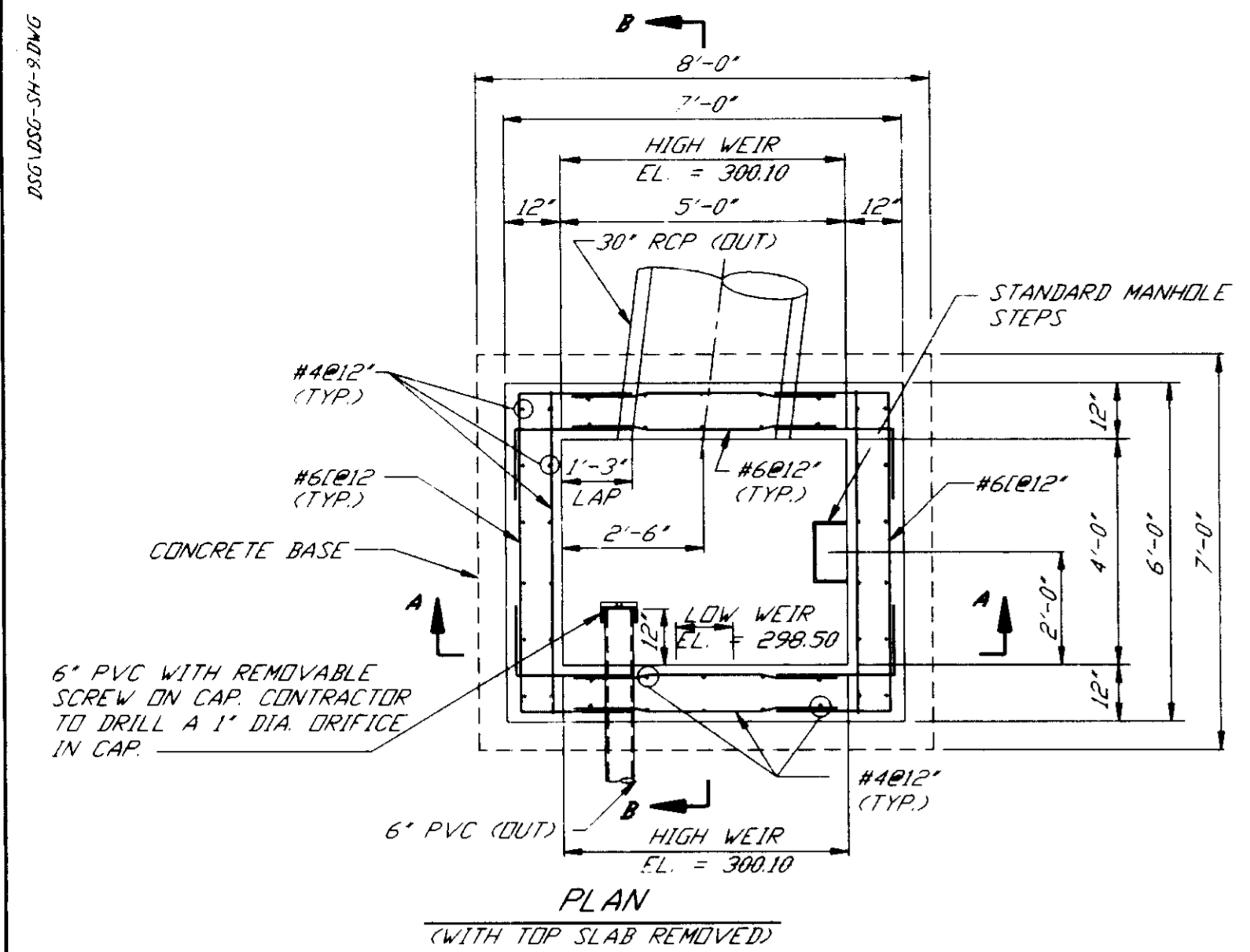
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SECTION/AREA: 5/1
LOT/PARCEL: E-6

PLAT/BLOCK: 11276 14
ZONE/TAX/ZONE: NT 36
MAR/TELEC. DIST: 6
CENSUS TR. DIST: 600701

WATER CODE: E-13
SEWER CODE: 5410000

<p>APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT</p> <p>COUNTY HEALTH OFFICER: _____ DATE: _____</p>	<p>APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING</p> <p>DIRECTOR: <i>James Smith</i> DATE: 10/21/94</p> <p>CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: <i>Jim Hammami</i> DATE: 10/21/94</p>	<p>APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC RIGHTS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>DIRECTOR: <i>James R. Shaw</i> DATE: 10/18/94</p> <p>CHIEF, BUREAU OF ENGINEERING: <i>John W. Clapsaddle, PE</i> DATE: 10/18/94</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>no.</th> <th>description</th> <th>date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	no.	description	date				<p>PREPARED BY: RBA ENGINEERS - ARCHITECTS - PLANNERS</p> <p>5560 STERRETT PLACE SUITE 300 COLUMBIA, MARYLAND 21044 410.730.7950</p>	<p>PROFILES</p> <p>DEVELOPMENTAL SERVICES GROUP OFFICE BUILDING</p> <p>SCALE: AS SHOWN DRAWN: ELB CHECKED: JMC DATE: 11/06/94 SHEET: 8 OF 1</p>
no.	description	date									

P&S 1000-304-224G



NOTES:
 1) 4" x 3" METAL ANGLE FABRICATED TO THE GIVEN DIMENSIONS & BOLTED TO RISER EVERY 24" MIN.
 2) 1/2" METAL ROD OR RE-BAR ON 6" CENTERS WELDED TO FRAME.
 3) WELDED
 4) ALL MATERIAL TO BE GALVANIZED AFTER FABRICATION AND PAINTED BATTLESHIP GREY.
 5) CENTER RACK HORIZONTALLY & VERTICALLY OVER OPENINGS.
 6) DIMENSIONS ARE INSIDE OF FRAME DIMENSIONS.

DIMENSION TABLE (6)	
RISER FACE	H
NORTH (FACING POND)	5'-2"
SOUTH (FACING DAM)	3'-2"

2) TRASH RACK
 9) NO SCALE

APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING
 Director: *Quina Summery* DATE: 10/21/94
 Chief, DIVISION OF LAW DEVELOPMENT AND RESEARCH

APPROVED: FOR PUBLIC WATER PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James E. Shaw* DATE: 10/18/94
 Chief, BUREAU OF ENGINEERING

APPROVED: *John W. Clapsaddle, P.E.* DATE: 10/18/94
 JOHN W. CLAPSADDE, P.E. NO. 1016286

PREPARED BY: **RBA** ENGINEERS - ARCHITECTS - PLANNERS
 5360 STERRETT PLACE SUITE 300
 COLUMBIA MARYLAND 21044
 410-730-7850

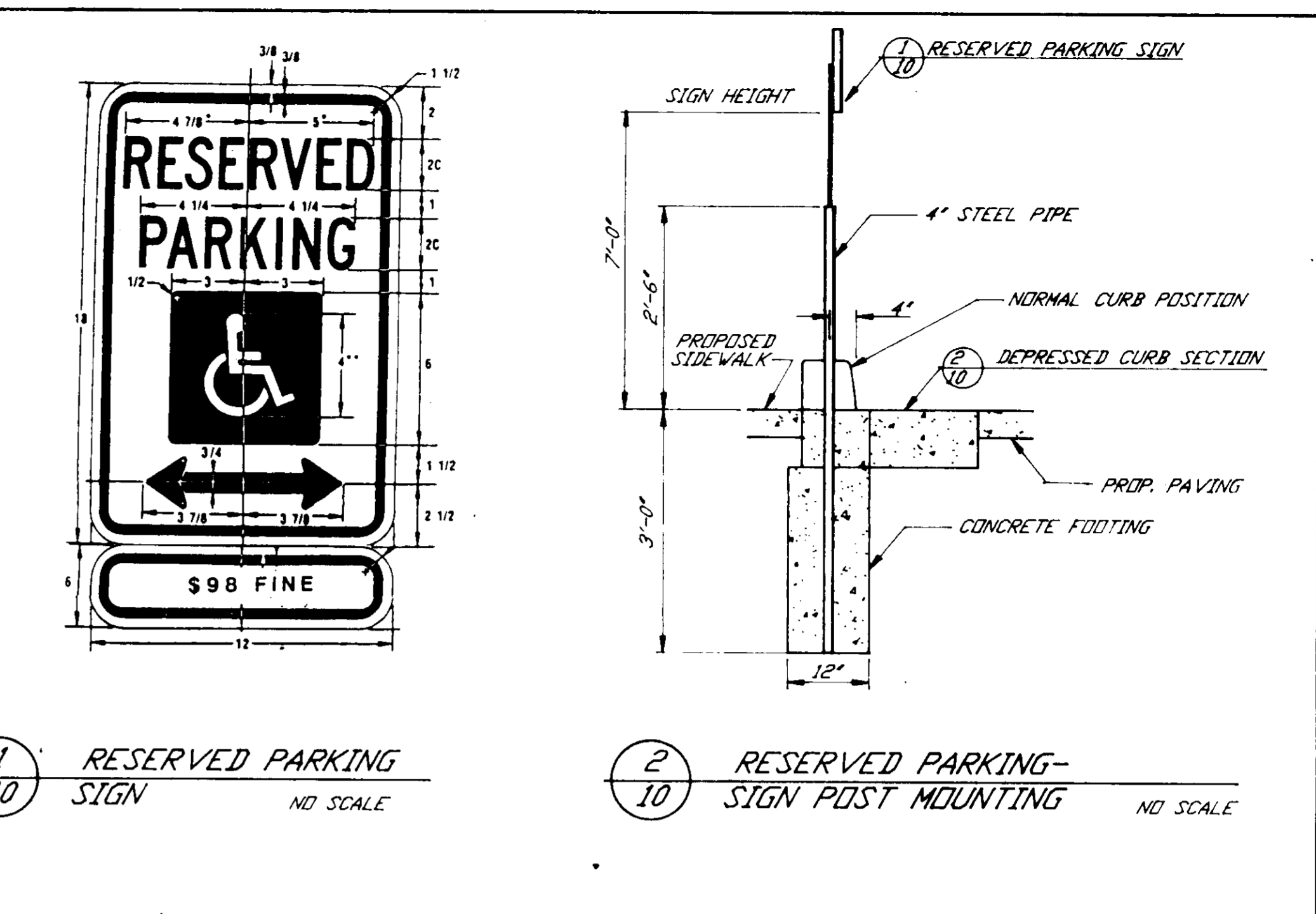
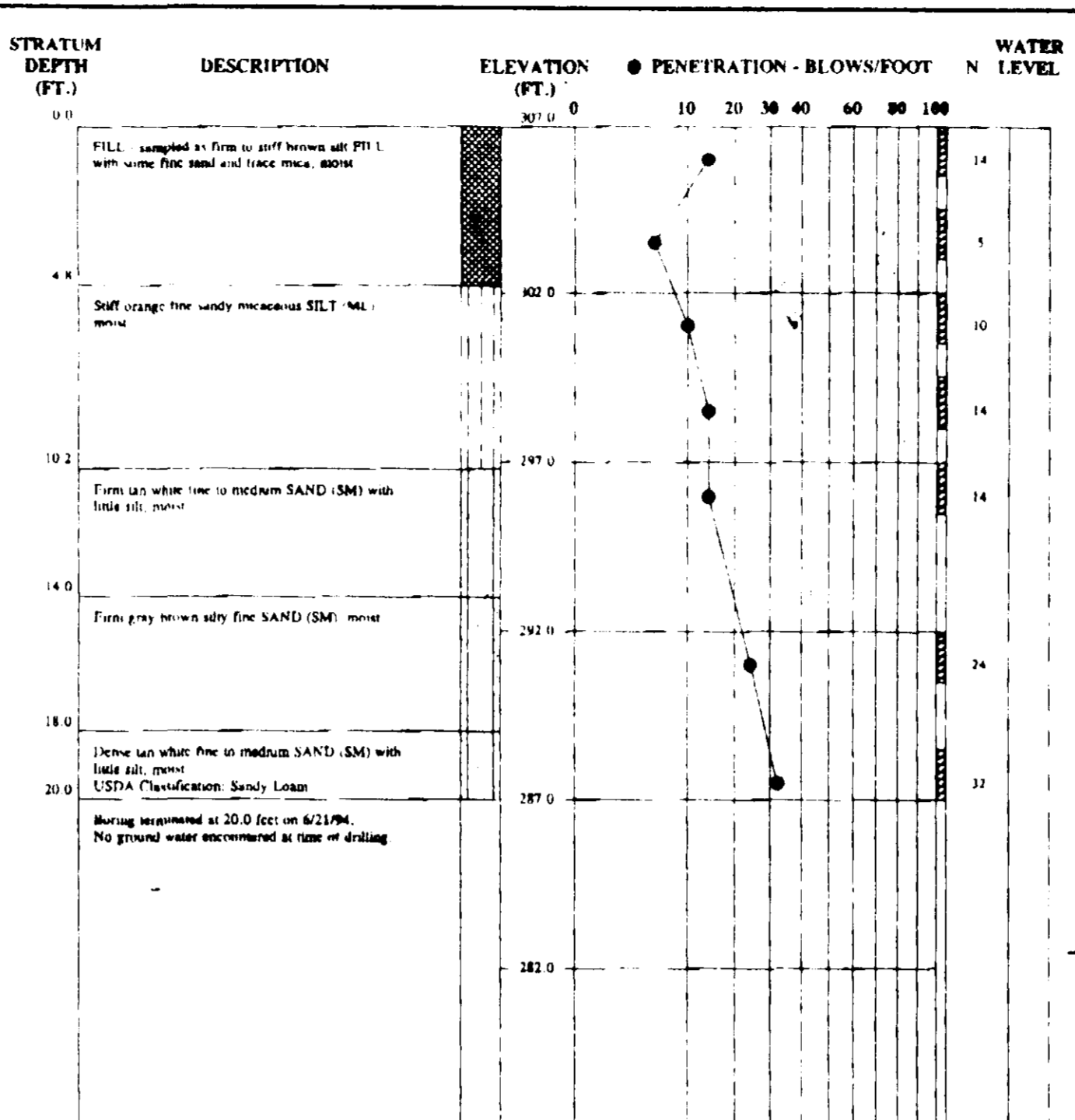
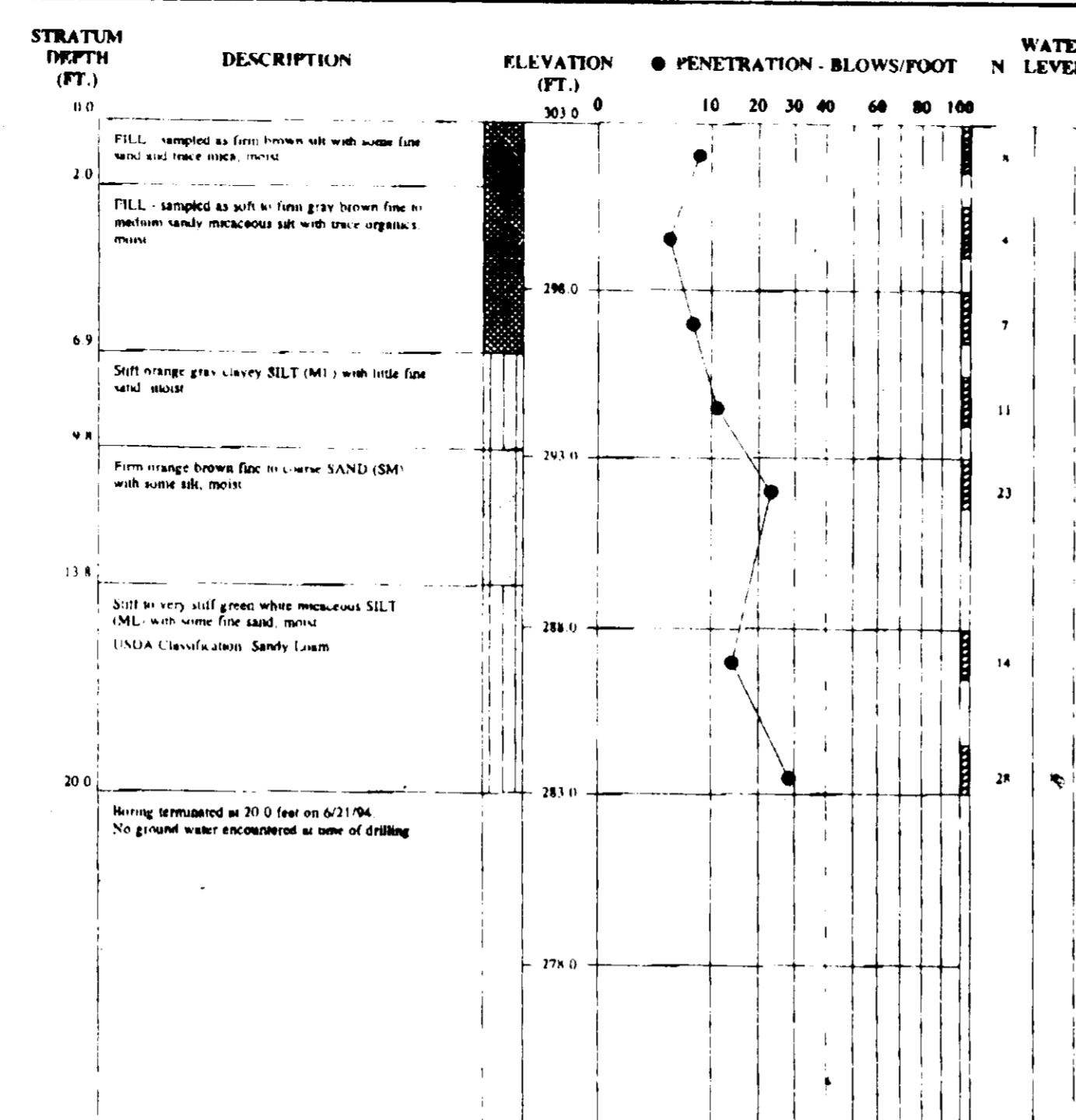
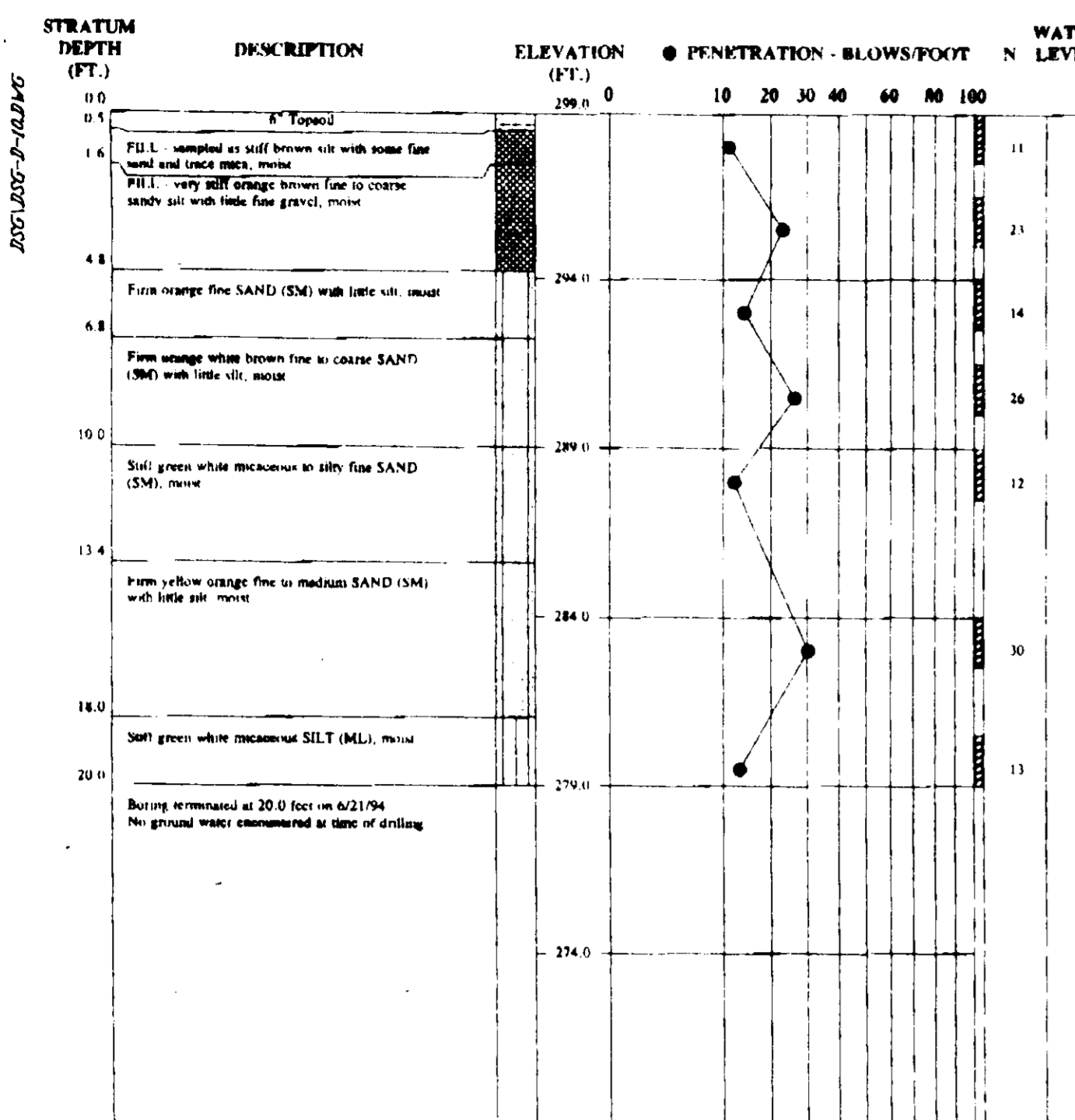
OWNER/DEVELOPER:
 M.O.R. DSB LTD. PARTNERSHIP
 7165 COLUMBIA GATEWAY...
 COLUMBIA MARYLAND 21046

ADDRESS CHART:
 LOT NO. STREET ADDRESS
 E-6 6355 WOODSIDE COURT

SUBDIVISION NAME: VOB
 SECTION/AREA: 5/1 E-6
 LOT/PARCEL: E-6
 PLAT/BLOCK: 14 INT 36
 WATER CODE: E-15
 SEWER CODE: 5410000

SCALE: AS SHOWN
 DRAWN: JMC
 CHECKED: JMC
 PROJ. NO: J1064
 DATE: 9-2-94
 SHEET: 9 OF 12

DEVELOPMENTAL SERVICES GROUP
 OFFICE BUILDING
 HOWARD COUNTY MARYLAND



POND CONSTRUCTION SPECIFICATIONS

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 12" frozen or other objectionable materials. Fill material for the center of the embankment and cut of 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 medium 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 snepastock, 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 $\pm 2\%$ 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 minimum 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:

- Materials - (Steel Pipe)** - This pipe and its appurtenances shall be galvanized and fully burnpainted 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, Plast-Coat, Black-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 primed 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.
 - Coupling bands, anti-seep collars, and 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.
 - Connections** - All connections with pipes must be completely watertight. The drain pipe or baffle 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 types 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 0-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 nuts. 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.
- 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.
 - Backfilling** shall conform to "Structure Backfill".
 - 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:
- Materials:** Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.
 - 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.
 - Laying pipe:** Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.
 - Backfilling** shall conform to "Structure Backfill".
 - 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:

- Materials:** PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.
- Joints and connections to anti-seep collars** shall be completely watertight.
- 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.
- Backfilling** shall conform to "Structure Backfill".
- 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

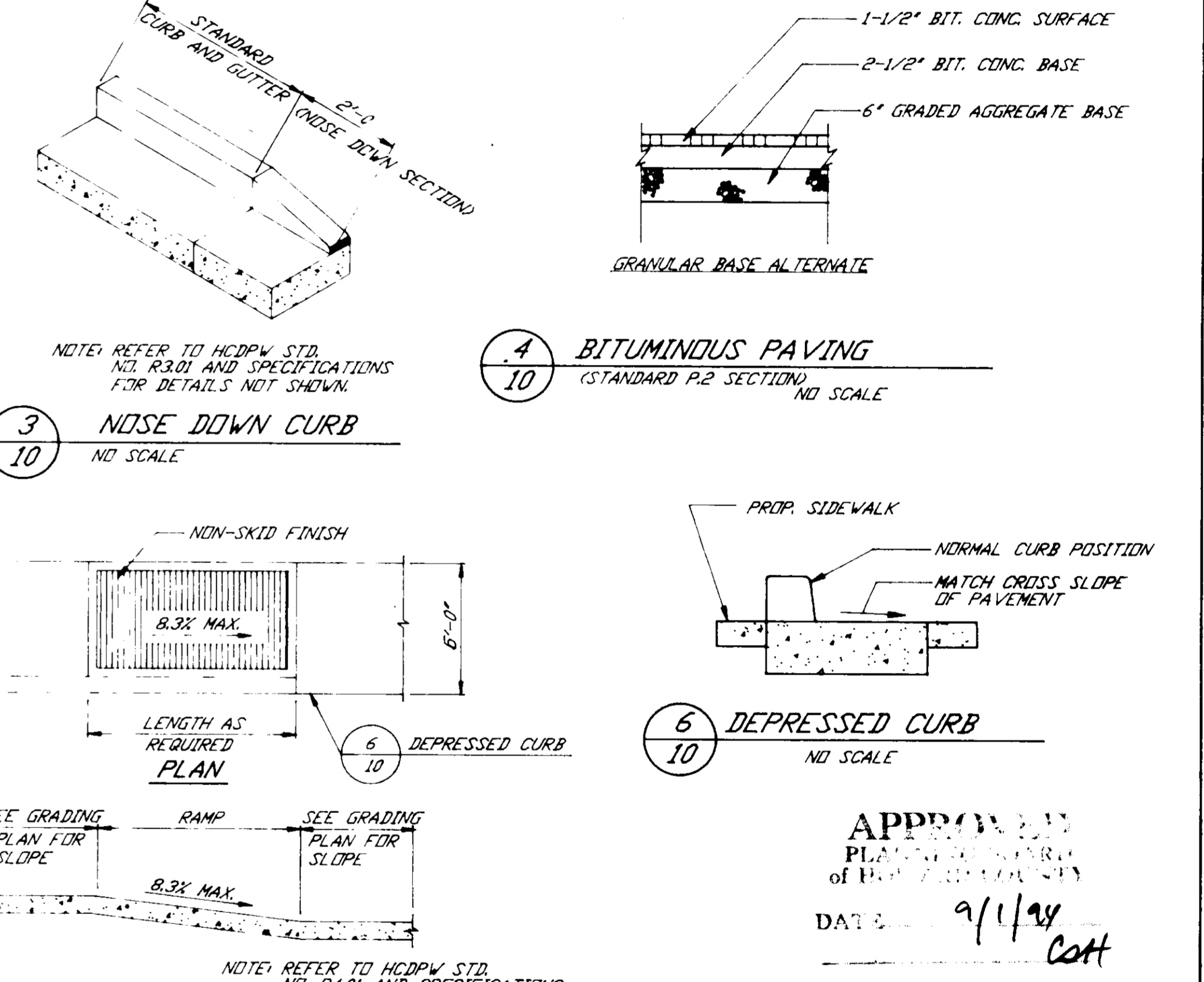
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also 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 part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will show 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 slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC HEALTH DEPARTMENT

DATE: _____

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING

DATE: 10/21/94

APPROVED FOR PUBLIC WATER PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC HEALTH DEPARTMENT OF PUBLIC WORKS

DATE: 10/18/94

PREPARED BY: RBA GROUP, INC.

DATE: 9/13/94

SCALE: AS SHOWN

CHECKED: JMC

DATE: 9/94

SHEET OF: 10 12

DETAILS

DEVELOPMENTAL SERVICES GROUP OFFICE BUILDING

HOWARD COUNTY MARYLAND

SEDIMENT AND EROSION CONTROL NOTES

- 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 (913-1055).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS HERETO.
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN A SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1 BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF THE SITE:	4.76	ACRES
AREA DISTRIBUTED:	3.8	ACRES
AREA TO BE REEDED OR PAVED:	2.13	ACRES
AREA TO BE VEGETATIVELY STABILIZED:	1.67	ACRES
TOTAL CUT:	9.469	CU. YDS.
TOTAL FILL:	6.321	CU. YDS.

OFFSITE WASTE/BORROW AREA LOCATION LANDFILL
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES, 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT CHANGES IN THE SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- AT THE END OF EACH WORK DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN THE OPERATIONAL CONDITION.
- ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 8/1/90.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHT S-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS.
- THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.

SEQUENCE OF CONSTRUCTION

1. OBTAIN ALL NECESSARY PERMITS AND HAVE ALL EXISTING UTILITIES MAINTAINED IN THE FIELD.	4 WEEKS	9. UPON COMPLETION OF ALL UTILITIES IN A GIVEN AREA, BACKFILL AND BEGIN CURB AND GUTTER CONSTRUCTION.	2 WEEKS
2. SCHEDULE AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED COUNTY INSPECTOR AND RESOLVE ALL SITE RELATED ISSUES.	1 WEEK	10. UPON COMPLETION OF CURB AND GUTTER, COMPLETE FINE GRADING, PREPARE SUBGRADE AND BEGIN BASE PAVING.	2 WEEKS
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN AND SUPER SILT FENCE AT TOE OF EMBANKMENT AND OBTAIN INSPECTOR APPROVAL OF INSTALLATION.	1 WEEK	11. UPON COMPLETION OF WORK IN A GIVEN AREA STABILIZE IMMEDIATELY.	N/A
4. CLEAR AND GRUB POND AREA ONLY AND BEGIN POND CONSTRUCTION. CONSTRUCT BARREL, ANTI-SEEP COLLARS AND RISER INCLUDING DEWATERING DEVICE.	4 WEEKS	12. UPON COMPLETION OF ALL WORK STABILIZE ALL REMAINING AREAS, FLUSH STORM SEWER CLEAN AND REMOVE ALL SEDIMENT FROM POND, ACHIEVE FINAL GRADING CONTOURS IN POND.	1 WEEK
5. INSTALL REMAINING PERIMETER EARTH DIKES AND SILT FENCES AS SHOWN ON APPROVED PLANS AND OBTAIN INSPECTOR APPROVAL OF ALL SEDIMENT CONTROL DEVICES.	2 WEEKS	13. STABILIZE ALL AREAS AROUND POND WITH FINAL SEEDING AND LANDSCAPING.	1 WEEK
6. CLEAR AND GRUB REMAINDER OF SITE AND BEGIN GRADING OPERATIONS. MAINTAIN ALL SEDIMENT CONTROL MEASURES AS NECESSARY.	4 WEEKS	14. UPON COMPLETE STABILIZATION OF ALL AREAS REMOVE ANY REMAINING SILT FROM POND AND INSTALL LOW FLOW CHANNEL AND PERMANENT LOW FLOW PIPING REMOVING DEWATERING DEVICE.	1 WEEK
7. AS ROUGH GRADING IS ACHIEVED, BEGIN UTILITY AND BUILDING CONSTRUCTION.	16 WEEKS	15. APPLY SURFACE PAVING.	1 WEEK
8. UPON INSTALLATION OF STORM DRAIN INLETS, INSTALL INLET PROTECTION DEVICES IMMEDIATELY.	1 WEEK	16. REQUEST INSPECTOR APPROVAL PRIOR TO REMOVING REMAINING SEDIMENT CONTROL DEVICES AND DO SO UPON INSPECTOR APPROVAL.	1 WEEK

CERTIFICATION BY THE DEVELOPER

I, **John V. Clapsaddle**, **9/21/94**
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)
 I CERTIFY THAT ALL DEVELOPMENT AND 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 COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

CERTIFICATION BY THE ENGINEER

I, **John V. Clapsaddle**, **9/13/94**
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 I 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 COUNTY 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 COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

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

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR DATE **10/21/94**
John V. Clapsaddle DATE **10/21/94**
 CHIEF, DIVISION OF LAW DEVELOPMENT AND RESEARCH

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE **10/21/94**
John V. Clapsaddle DATE **10/21/94**
 CHIEF, BUREAU OF ENGINEERING

APPROVED FOR THE CITY OF WASHINGTON
 PROFESSIONAL ENGINEER
John V. Clapsaddle P.E.
 NO. MD 16236

PREPARED BY
RBA ENGINEERS ARCHITECTS PLANNERS
 5560 STERRETT PLACE SUITE 300
 COLUMBIA, MARYLAND 21044
 410-730-7950

DETAILS
 DEVELOPMENTAL SERVICES GROUP
 OFFICE BUILDING
 HOWARD COUNTY MARYLAND

SCALE AS SHOWN
 DRAWN ELB
 CHECKED JMC
 PROJ. NO. 11064
 SHEET 11 OF 12
 DATE 9/14/94

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
 SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
 SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING. APPLY 400 LB. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (45 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED DURING A SHORT-TERM VEGETATIVE COVER IS NEEDED.

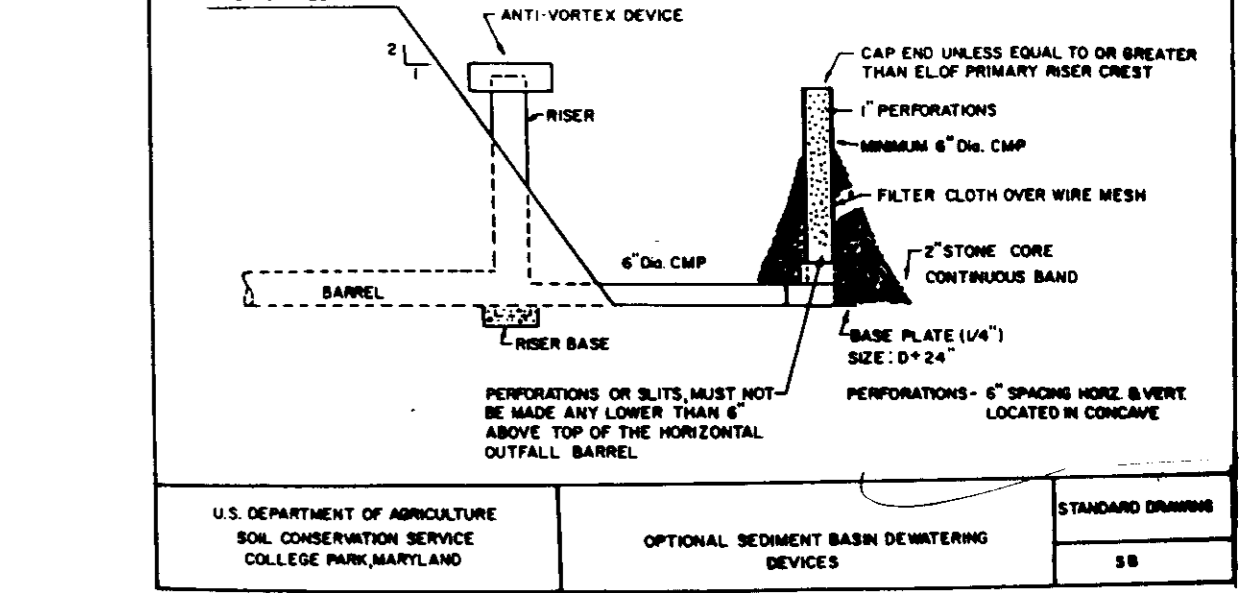
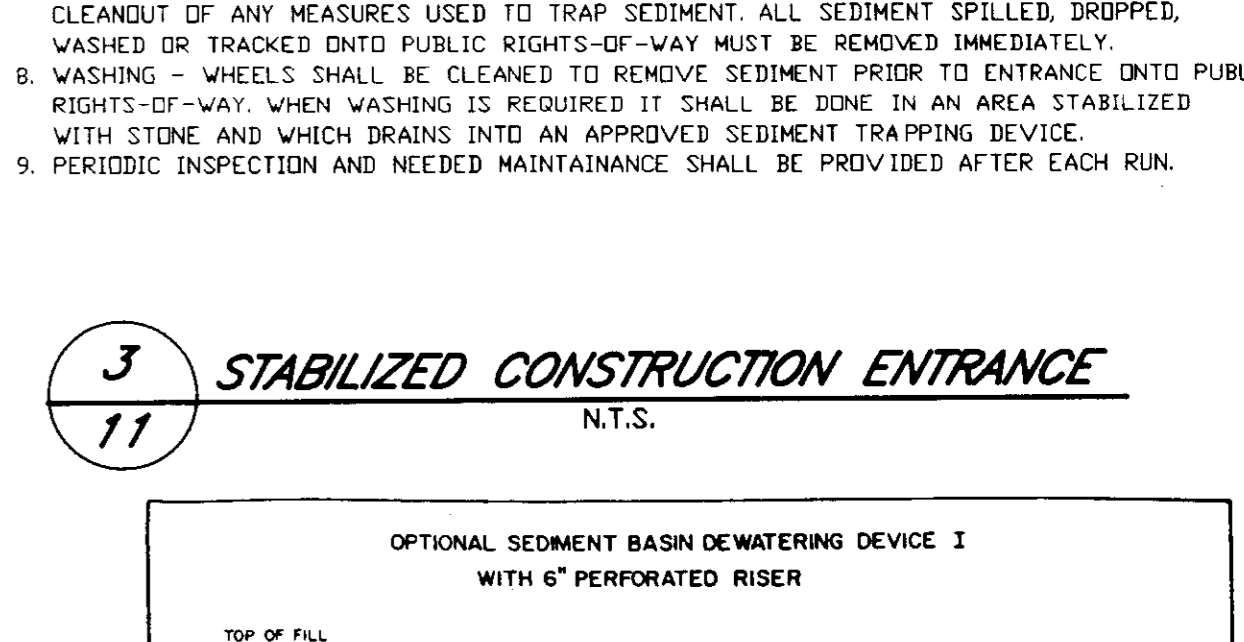
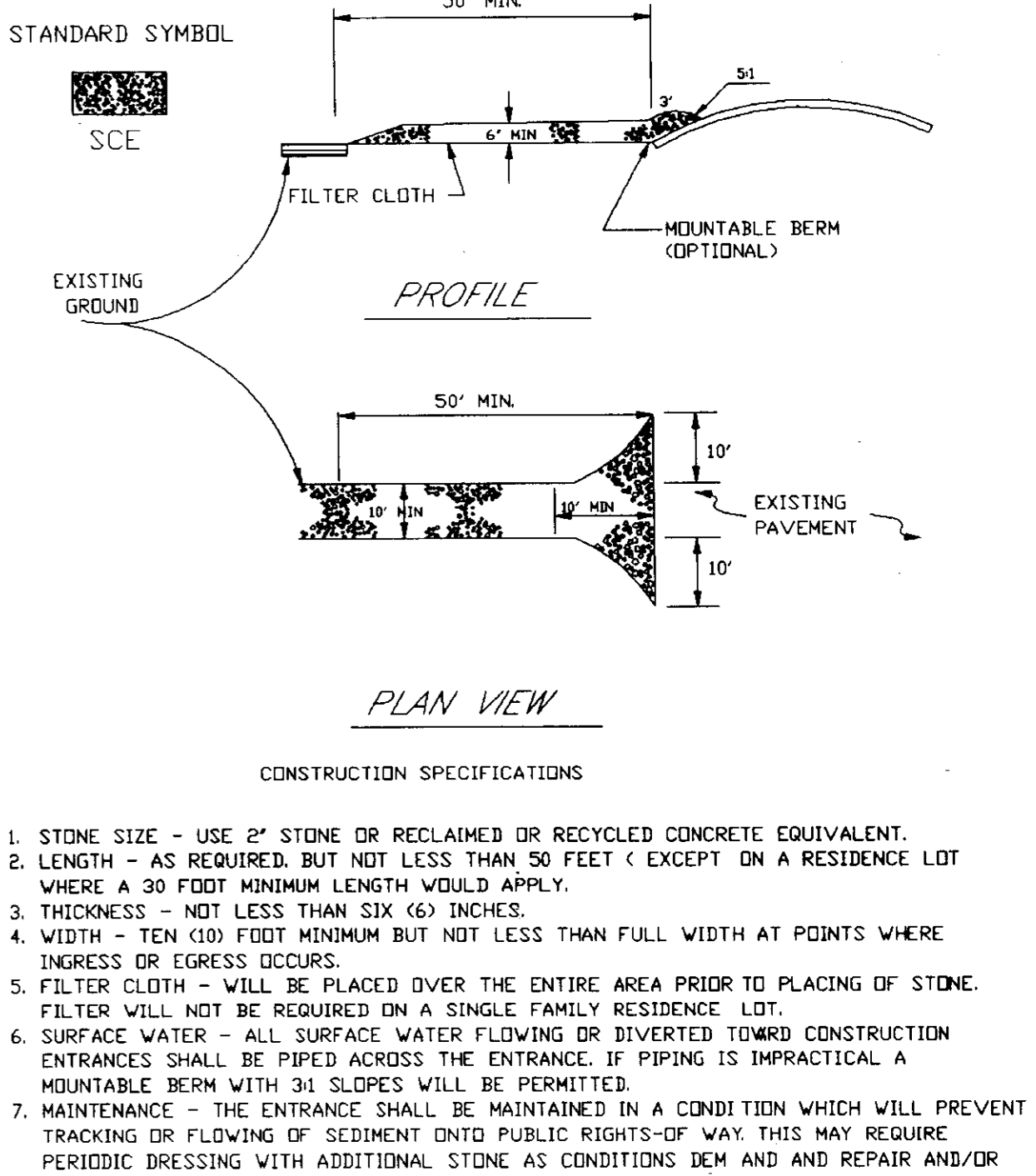
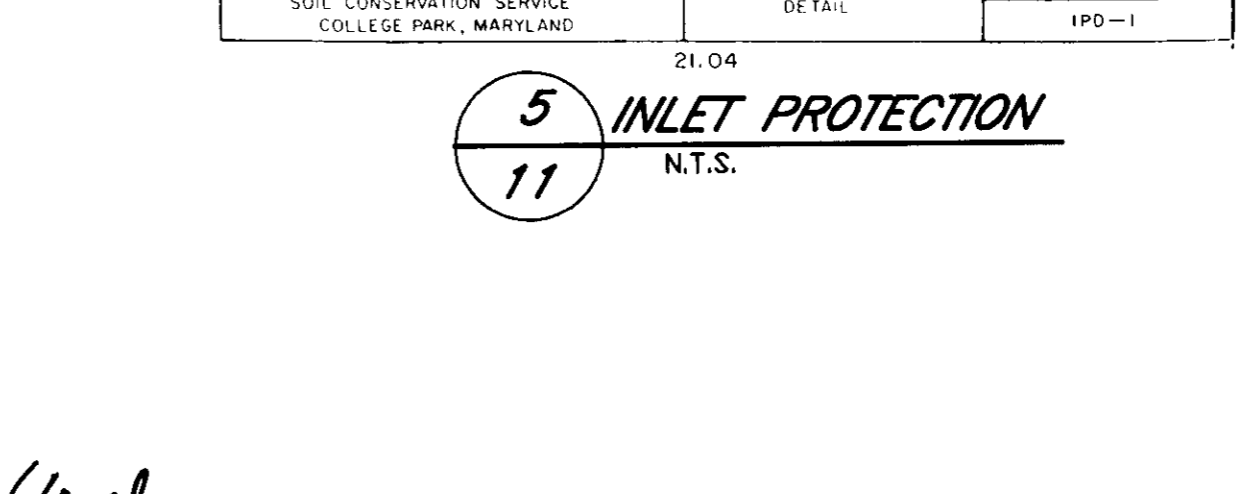
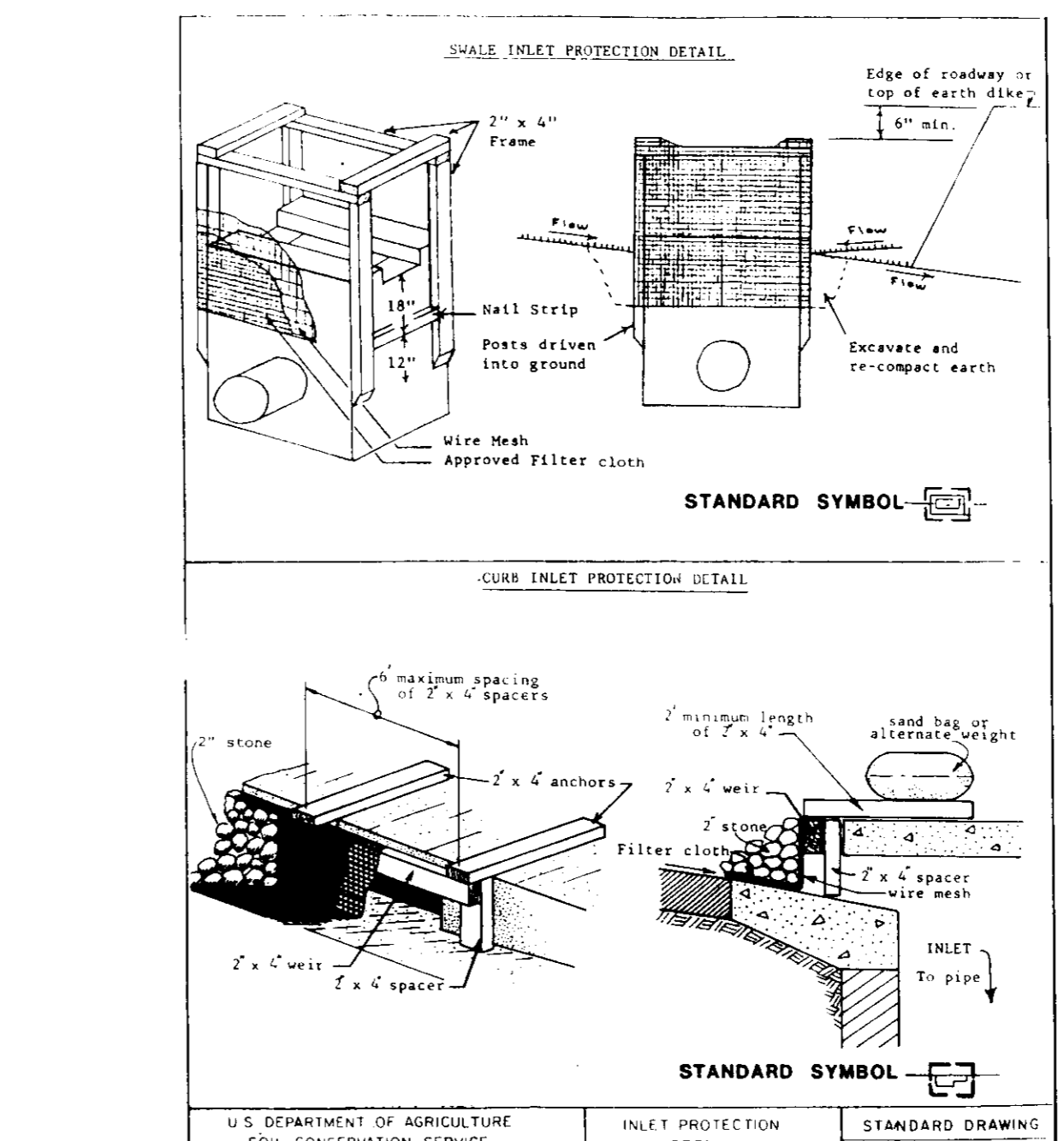
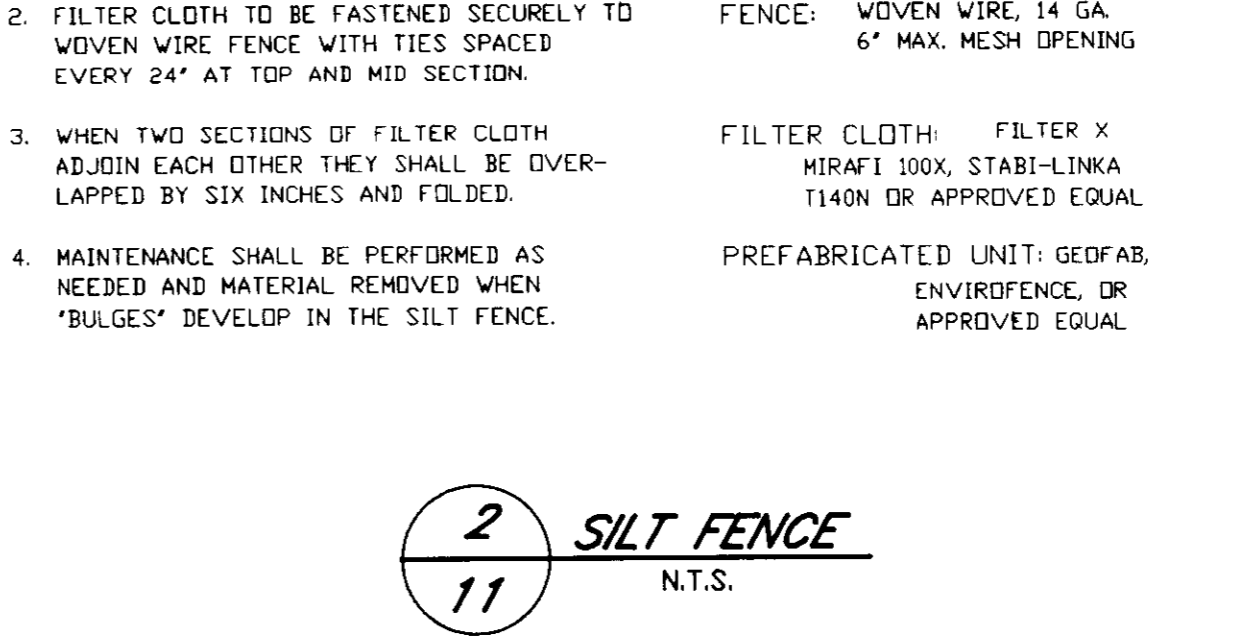
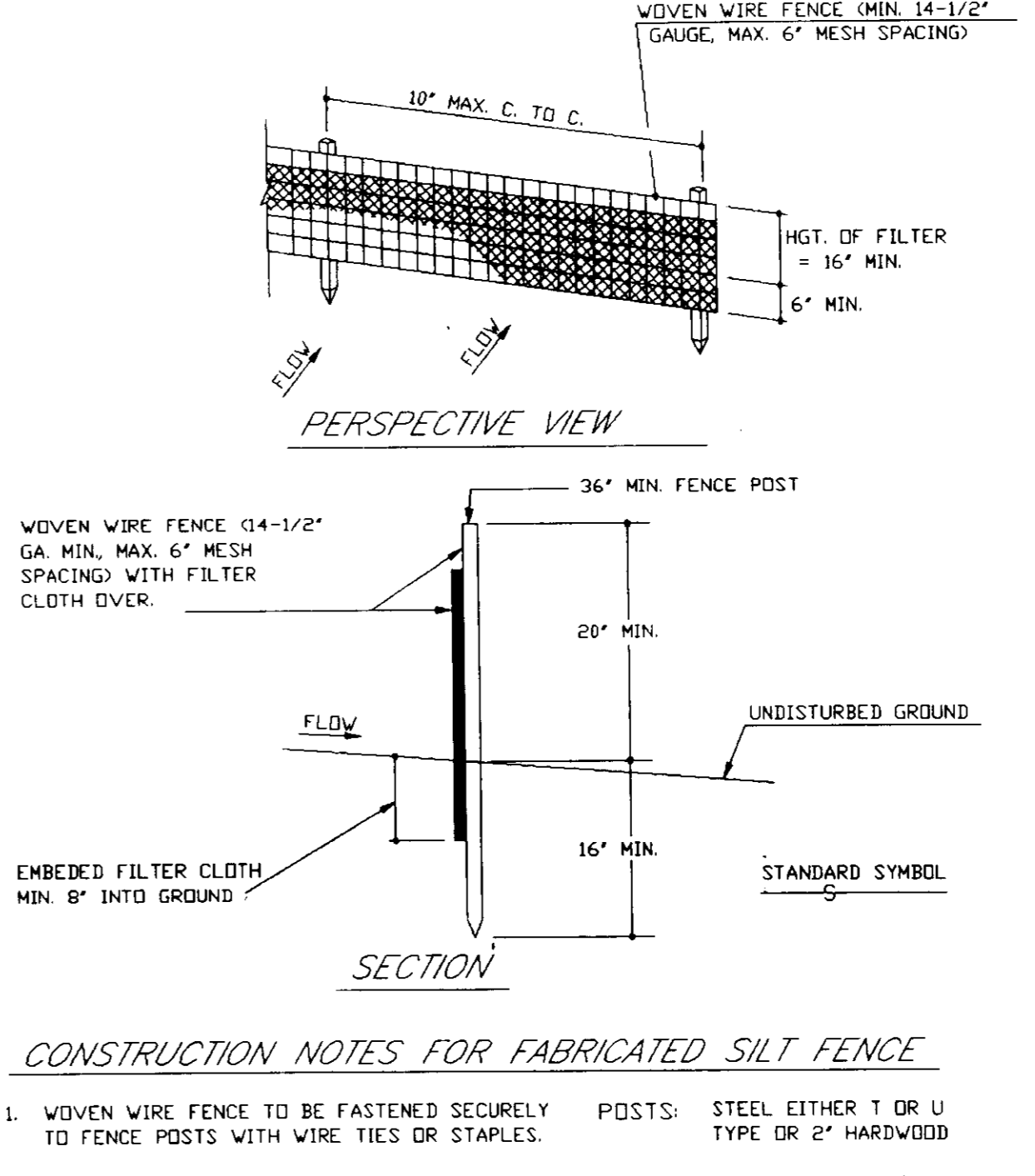
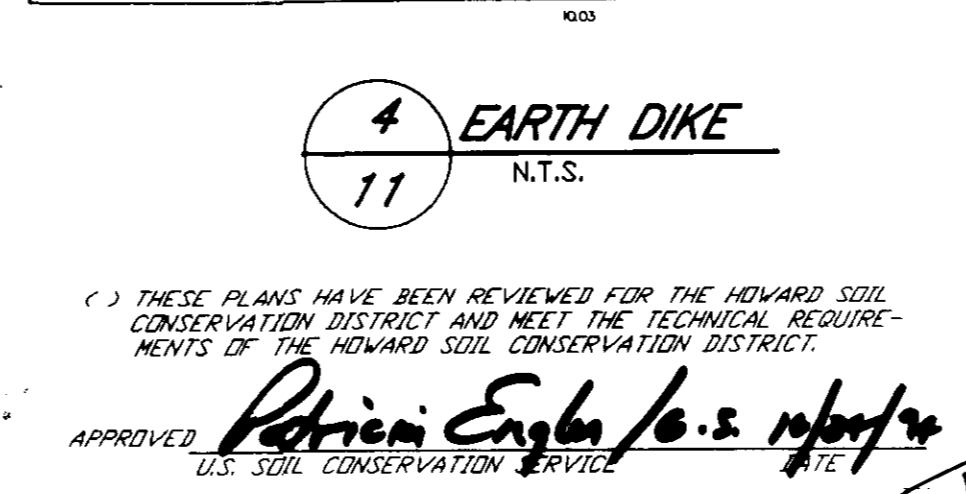
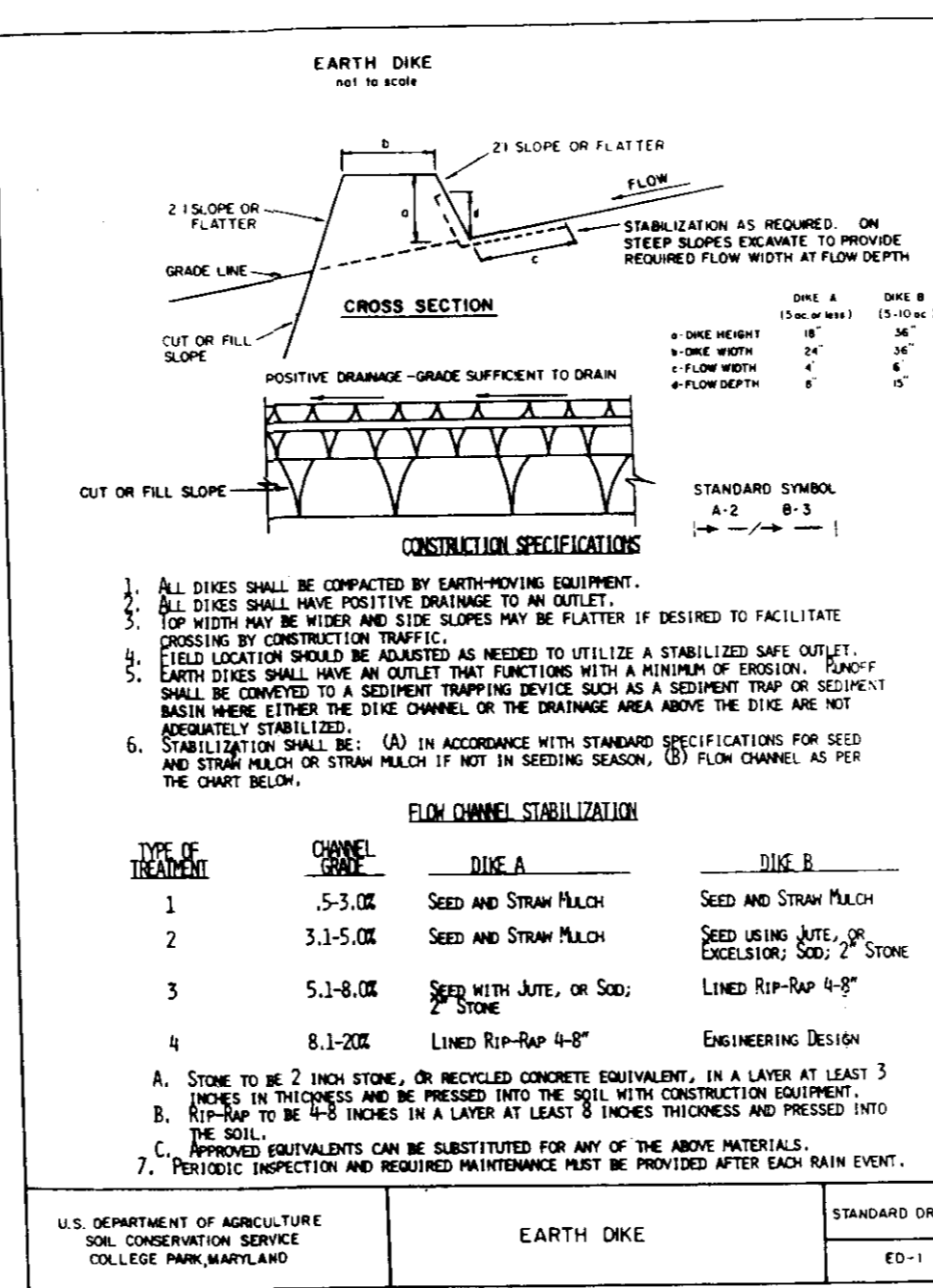
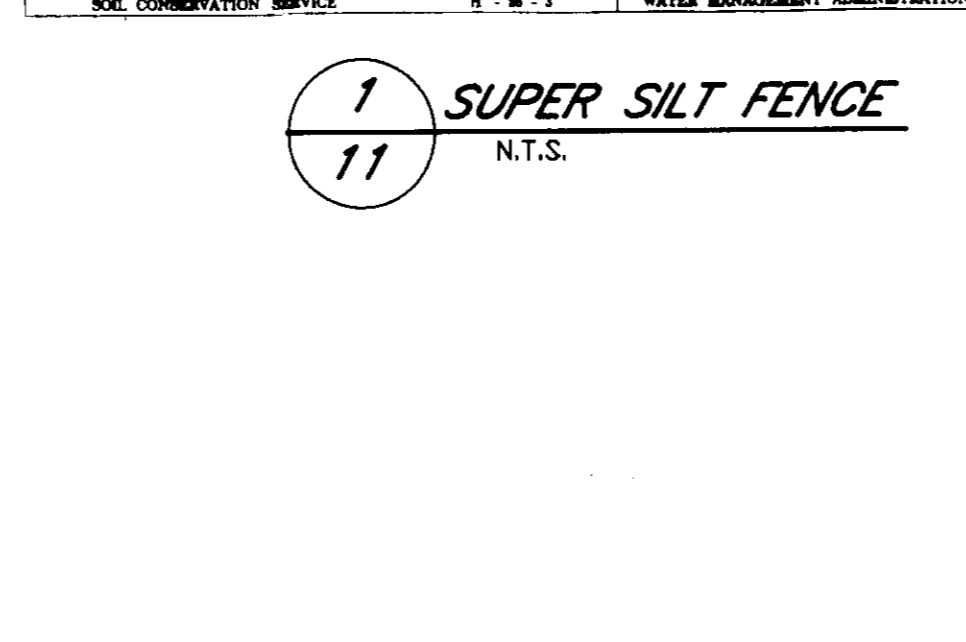
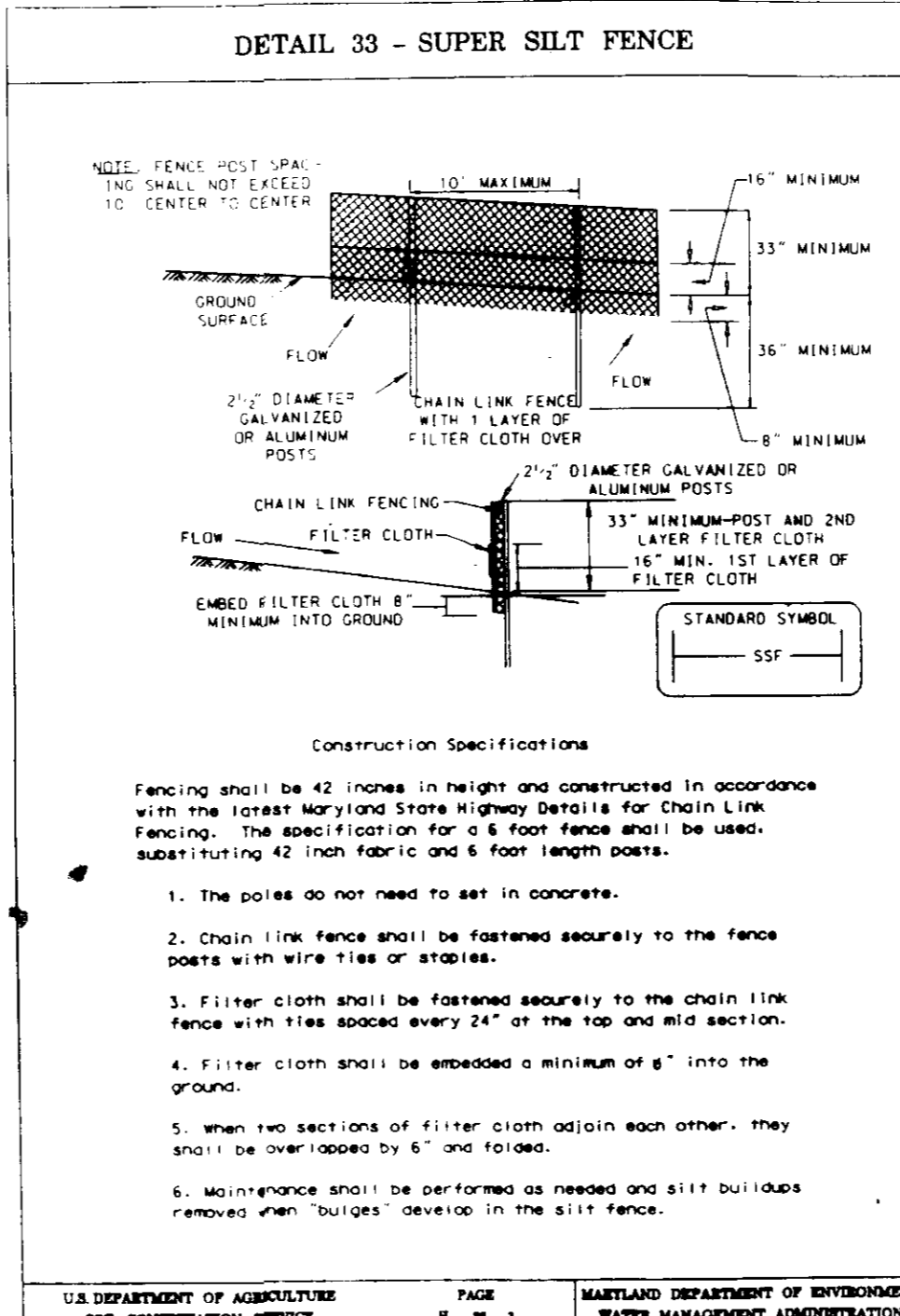
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.)

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS/100 SQ. FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (87 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



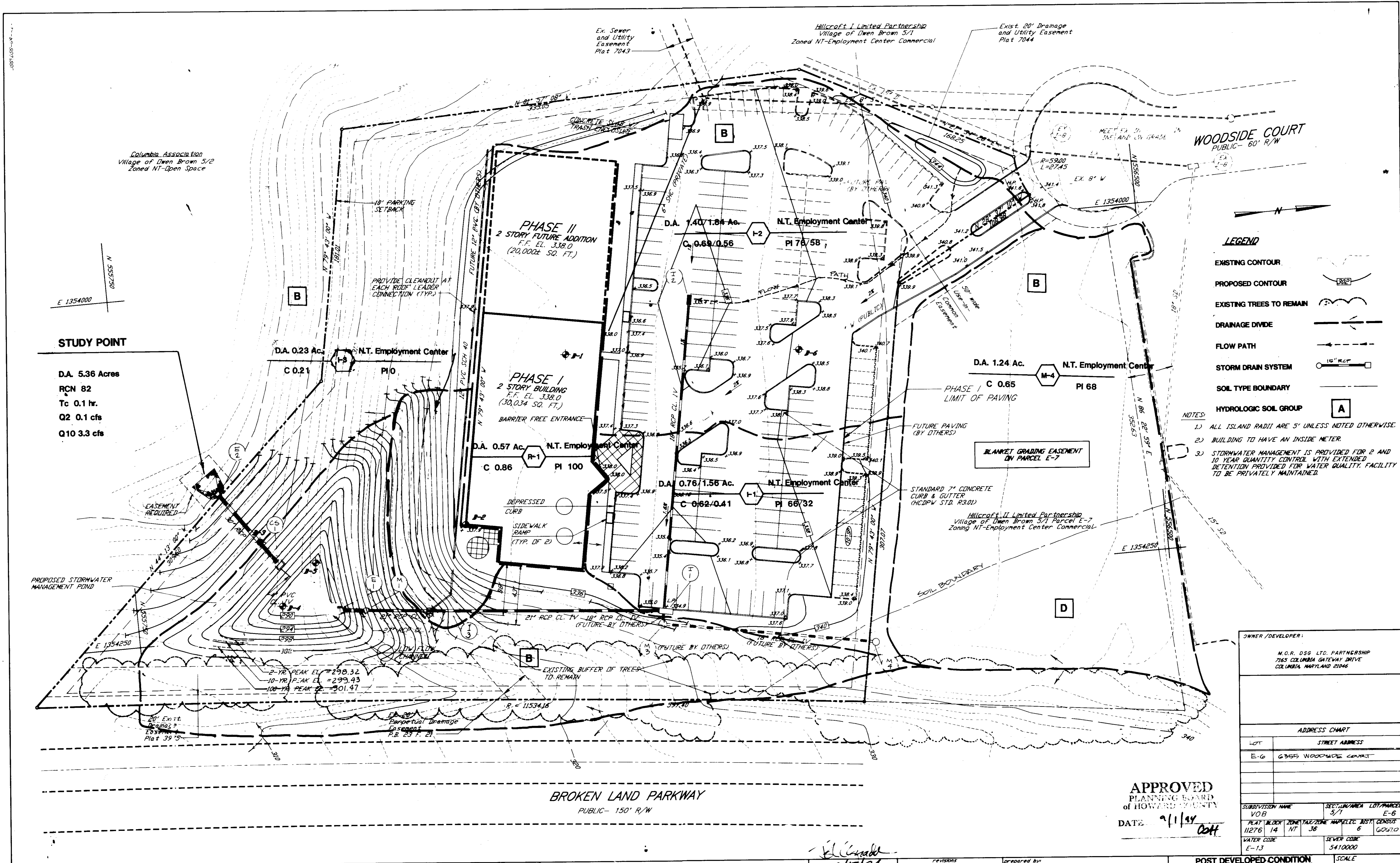
OWNER/DEVELOPER
M.O.R. DSG LTD. PARTNERSHIP
 7105 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

ADDRESS CHART
 LOT STREET ADDRESS
 E-6 6355 WOODSIDE COURT

APPROVED PLANNING BOARD OF HOWARD COUNTY
 DATE **9/1/94**

SUBDIVISION NAME: **OWEN BROWN**
 SECTION/AREA: **1/1**
 LOT/PARCEL: **6**
 WATER CODE: **E-13**
 SEWER CODE: **541000**

DATE **9/1/94**
 SCALE AS SHOWN
 DRAWN ELB
 CHECKED JMC
 PROJ. NO. 11064
 SHEET 11 OF 12
 DATE 9/14/94



STUDY POINT

D.A. 5.36 Acres
 RCN 82
 Tc 0.1 hr.
 Q2 0.1 cfs
 Q10 3.3 cfs

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREES TO REMAIN
- DRAINAGE DIVIDE
- FLOW PATH
- STORM DRAIN SYSTEM
- SOIL TYPE BOUNDARY
- HYDROLOGIC SOIL GROUP

NOTES:

- 1.) ALL ISLAND RADII ARE 5' UNLESS NOTED OTHERWISE.
- 2.) BUILDING TO HAVE AN INSIDE METER.
- 3.) STORMWATER MANAGEMENT IS PROVIDED FOR 2 AND 10 YEAR QUANTITY CONTROL WITH EXTENDED DETENTION PROVIDED FOR WATER QUALITY. FACILITY TO BE PRIVATELY MAINTAINED.

OWNER / DEVELOPER:

M.O.R. DSG LTD. PARTNERSHIP
 7165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

ADDRESS CHART

LOT	STREET ADDRESS
E-6	6365 WOODSIDE COURT

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VOB	5/1	E-6
PLAT BLOCK	ZONE/TAX ZONE	MAP/ELEC. DIST.
11276 14	NT 36	6 (G06701)
WATER CODE	SEWER CODE	
E-13	5410000	

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 9/1/94
 COT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER _____ DATE _____

APPROVED HOWARD DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR _____ DATE 10/21/94
 Qina Jaramany
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 COT

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR _____ DATE 10/10/94
 CHIEF, BUREAU OF ENGINEERING
 DATE 10/10/94

revisions
 no. description date
 prepared by
 RBA
 5560 STERRETT PLACE SUITE 300
 COLUMBIA, MARYLAND 21044
 410/730-7950

SCALE
 AS SHOWN
 DRAWN
 ELB
 PROJ. MGR.
 J1084
 SHEET
 12
 CHECKED
 JWC
 DATE
 9/94
 OF
 12

POST DEVELOPED CONDITION
 DRAINAGE AREA MAP
 DEVELOPMENTAL SERVICES
 GROUP
 OFFICE BUILDING
 HOWARD COUNTY
 MARYLAND