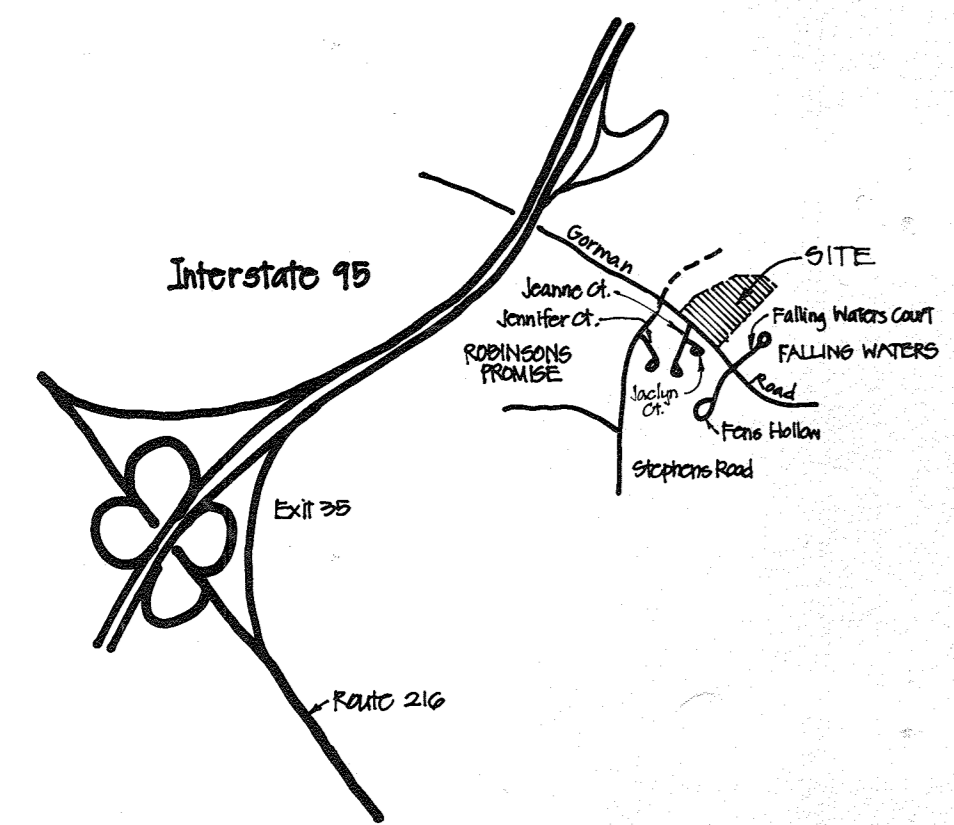


These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.



VICINITY MAP  
1"=2000' NORTH

**Legend**

ITEM	NEW	EXISTING
PROPERTY LINE	---	---
SPOT ELEVATIONS	+359'	
CONTOURS	34	34
BUILDINGS	[Symbol]	[Symbol]
BITUMINOUS PAVING	[Symbol]	[Symbol]
CONCRETE PAVING & WALKS	[Symbol]	[Symbol]
CONCRETE CURB & GUTTER	[Symbol]	[Symbol]
SANITARY SEWER (MANHOLE)	[Symbol]	[Symbol]
STORM SEWER (STRUCTURE)	[Symbol]	[Symbol]
OVERHEAD POWER LINE (POLE)	[Symbol]	[Symbol]
OVERHEAD TELEPHONE LINE (POLE)	[Symbol]	[Symbol]
POLE GUY WIRE (ANCHOR)	[Symbol]	[Symbol]
UNDERGROUND POWER LINE	[Symbol]	[Symbol]
UNDERGROUND TELEPHONE LINE	[Symbol]	[Symbol]
SITE LIGHT/FLOOD LIGHT	[Symbol]	[Symbol]
WATER MAIN	[Symbol]	[Symbol]
FIRE HYDRANT (VALVE)	[Symbol]	[Symbol]
GAS MAIN	[Symbol]	[Symbol]
UNDERGROUND OIL/FUEL STORAGE TANK	[Symbol]	[Symbol]
STEPS	[Symbol]	[Symbol]
TREES/SHRUBS	[Symbol]	[Symbol]
WOODED AREA	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
SOIL BORING	[Symbol]	[Symbol]
PERC TEST	[Symbol]	[Symbol]
SIAMESE CONNECTION	[Symbol]	[Symbol]
PROPERTY CORNER	[Symbol]	[Symbol]
TRAVERSE STATION	[Symbol]	[Symbol]
CONCRETE MONUMENT	[Symbol]	[Symbol]

**Abbreviations**

&	AND
@	AT
AN	AS NOTED
APPROX	APPROXIMATE
B	BORING
BG&E	BALTIMORE GAS & ELECTRIC
BIT	BITUMINOUS
BM	BENCH MARK
BLDG	BUILDING
CGG	CURB AND GUTTER
CB	CONCRETE BUTTRISS
CLF	CENTER LINE
CO	CHAIN LINK FENCE
CONC	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTRACT
CONST	CONSTRUCTION
DI	DROP INLET
DIP	DUCTILE IRON PIPE
E	EAST
EA	EACH
EL	ELEVATION ABOVE SEA LEVEL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	END SECTION
ESMT	EASEMENT
EX	EXISTING
FF	FINISHED FLOOR
FH	FIRE HYDRANT
G	NATURAL GAS
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HORIZONTAL BEND
INCLUD.	INCLUDING
INV	INVERT
L	LENGTH OF CURVE
LAT	LATERAL
LF	LINEAR FOOT
LOC	LOCATION
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NA	NOT APPLICABLE
NO	NUMBER
OP	OVERHEAD POWER
OP&T	OVERHEAD POWER AND TELEPHONE
OT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REV	REVISION
S	SOUTH
SAN	SANITARY
SDP	SITE DEVELOPMENT PLAN
SEW	SEWER
SHT	SHEET
SMH	SANITARY MANHOLE
STA	STATION
STM	STORM
T	TANGENT
TB	TEST BORING
TELE	TELEPHONE
TP	TEST PIT
TRANS	TRANSFORMER
TS&V	TAPPING SLEEVE & VALVE
TYP	TYPICAL
UP	UNDERGROUND POWER
UT	UNDERGROUND TELEPHONE
V	VALVE
W	WATER
W	WEST
W	WITH
WF	WIRE FENCE
WM	WATER MAIN
W/O	WITH OUT

**General Notes**

- OWNER: HOWARD COUNTY BOARD OF EDUCATION
- USE: SOUTHEASTERN ELEMENTARY SCHOOL
- TAX MAP: 47, PARCEL TO BE DETERMINED
- TOTAL SITE AREA: 20.851 ACRES OR 408,204.80 SQUARE FEET  
RIGHT OF WAY DEDICATION: 0.673 ACRES OR 29,318.80 SQUARE FEET  
REMAINING SITE AREA AFTER DEDICATION: 20.178 ACRES OR 878,986.00 SQUARE FEET
- ZONING: R-12
- BUILDING SQUARE FOOTAGE: 76,963 GSF
- OCCUPANCY:  
TEACHERS 78  
TEACHERS AIDE 12  
SECRETARIAL/JANITORIAL 8  
TOTAL STAFF 98  
  
TOTAL STUDENTS 564
- PARKING REQUIREMENTS (PER HOWARD COUNTY BOARD OF EDUCATION):  
HANDICAP 3  
STANDARD 80  
TOTAL 83
- BUILDING COVERAGE: 76,963 + 878,986 = 8.76%
- GREEN SPACE:  
BUILDING AREA: 76,963 SF. OR 1.767 ACRES = 8.76%  
ROADS AND PARKING: 163,742 SF. OR 3.759 ACRES = 16.63%  
GREEN SPACE: 638,240 SF. OR 14.632 ACRES = 72.61%  
SITE AREA: 878,986 SF. OR 20.178 ACRES
- BUILDING SETBACKS: FROM PRINCIPAL OR INTERMEDIATE ARTERIAL: 30'  
SIDE YARD: 7.5'  
REAR YARD: 30'
- SITE IS OPEN PASTURE WITH EXCEPTION OF WETLANDS. REFER TO WETLANDS REPORT FOR PLANT MATERIAL COMMUNITIES AND SPECIES.
- ALL BUILDING ROOF DRAINS DISCHARGE INTO STORMWATER MANAGEMENT POND.
- STORMWATER MANAGEMENT POND WILL BE A WET POND.
- PARKING AREA WILL BE LIGHTED. ALL LIGHTS WILL BE DIRECTED AWAY FROM RESIDENTIAL AREAS AND RIGHTS-OF-WAY.
- CONSTRUCTION STANDARDS:  
CONCRETE WALK TO BE IN ACCORDANCE WITH STANDARD DETAIL R-3.05.  
CONCRETE CURB TO BE IN ACCORDANCE WITH STANDARD DETAIL R-3.03.
- DRAINAGE AREA: MIDDLE PATUXENT.
- WAVIVER FOR CONSTRUCTION & GRADING WITHIN THE WETLANDS BUFFER, WP-91-182, GRANTED APRIL 4, 1991 PER SECTION 6.11(C)(6).

**Sheet Index**

C-1	COVER SHEET
C-2	SITE PLAN
C-3	SITE PLAN
C-4	EROSION CONTROL PLAN
C-5	EROSION CONTROL PLAN
C-6	EROSION
C-7	DRAINAGE DIVIDE AND SOILS MAPS
C-8	GORMAN ROAD PLAN AND PROFILE
C-9	GORMAN ROAD PLAN AND PROFILE
C-10	STORM SEWER PROFILES AND COMPUTATIONS
C-11	SWM PROFILES, DETAILS AND SPECIFICATIONS
C-12	BUILDING ELEVATIONS
C-13	SITE DETAILS
C-14	SITE DETAILS
L-1	LANDSCAPE PLAN

\* NOTE: BID DINGS INCLUDE NEW SANITARY SEWER AND WATERMAIN PLAN & PROFILE DRAWINGS 1 of 2 and 2 of 2.

**Benchmark Data**

HOWARD COUNTY, MARYLAND  
GENERAL COUNTY PROJECT 00010 - GEODETIC CONTROL SURVEY

**RECOVERY CARD**

STATION: 1941002  
ELEVATION: 391.792

DEPARTMENT OF PUBLIC WORKS FORM 00-018-225

**RECOVERY CARD**

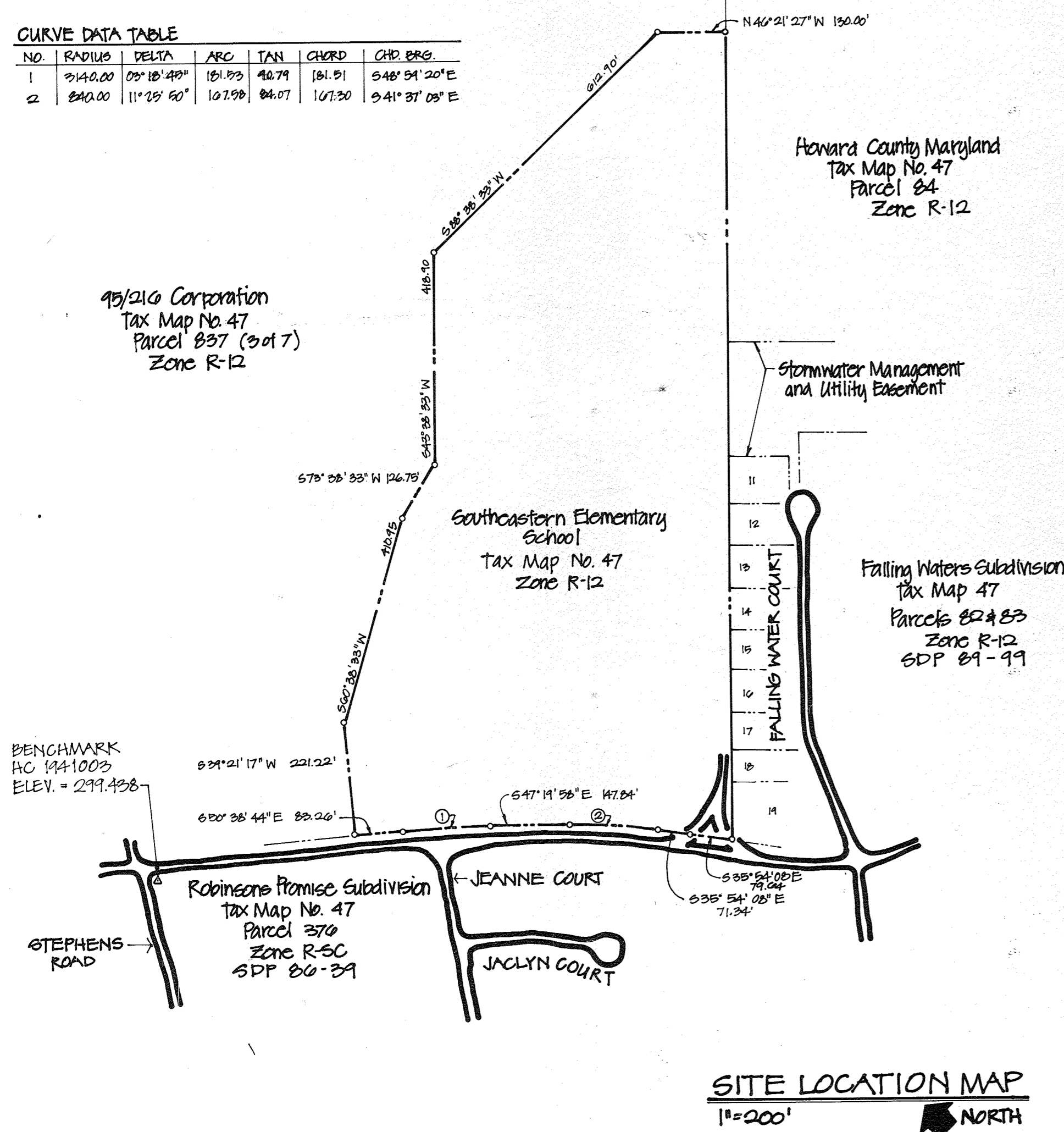
STATION: 1941003  
ELEVATION: 391.792

DEPARTMENT OF PUBLIC WORKS FORM 00-018-225

STATE OF MARYLAND PROFESSIONAL ENGINEER

**CURVE DATA TABLE**

NO.	RADIUS	DELTA	ARC	TAN	CHORD	CHD. BRG.
1	214.00	09°18'49"	181.83	46.79	181.51	548°54'20"E
2	280.00	11°28'50"	107.99	84.07	107.90	94°13'08"E



SITE LOCATION MAP  
1"=200' NORTH

DATE	REVISION	BY
01-04-70		
03-15-91	H.C. 204 64B	
08-15-91	ADD. NO. 1	
08-27-91	FINAL H.C. 204B	
04-12-91		

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

**GENERAL NOTE**

The building permit for the new building addition must be applied for with the Department of Inspections, Licenses and Permits within one year from the approval date of the Red Line Revision.

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NO.	REVISION	DATE
3	ADD SCHOOL NAME TO EACH SHEET	SEPT 2022
2	REVISED GENERAL NOTES	11-8-2020

Cover Sheet

C-1

DD 24 SEPT 1990	REVISION PER H.C. 10/21/90	ALL NOTES 2-10
CD	REVISION 01-04-90	FINAL 11/2/90
PRIMAT 21 DEC 1990	REVISION 02-14-91	REVISION 02-15-91
FOUR BID 03-13-91	REVISION 03-15-91	REVISION 03-15-91
ISSUE FOR BID 34 EA 4/5/91		REVISION 4/16/91

**INFORMATION ON THIS DRAWING IS TO BE USED FOR BID PACKAGES 3A AND 5A ONLY.**

SEE ARCHITECTURAL DRAWINGS FOR CONCRETE WALK SCORING AND LAYOUT REQUIREMENTS @ CAR POOL DROP OFF ZONE, DUMPSTER PAD, BUS DROP OFF ZONE, KINDERGARTEN PLAY, TEACHERS LOUNGE AREA, EQUIPMENT ENCLOSURE, EXIT DOOR PADS/COVERED WALKS AND RELATED WALLS AND BOLLARDS.

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

*Jama M. Fisher* 2/16/91  
S.S. Soil Conservation District Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*Richard Zichner* 4/16/91  
Howard Soil Conservation District Date

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

*James M. Boyd* 4-25-91  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*Joseph R. Rafter* 4/29/91  
DIRECTOR DATE

*Mark L. ...* 7/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*Paul M. ...* 4/25/91  
DIRECTOR (ACTING) DATE

*...* 4-25-91  
CHIEF BUREAU OF ENGINEERING DATE

**Eddy & Eckhardt Architects**  
9912 C Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-759-5500 Fax 753-5579

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWNG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Chesman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL  
1992 SOUTHEASTERN ELEMENTARY SCHOOL**  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

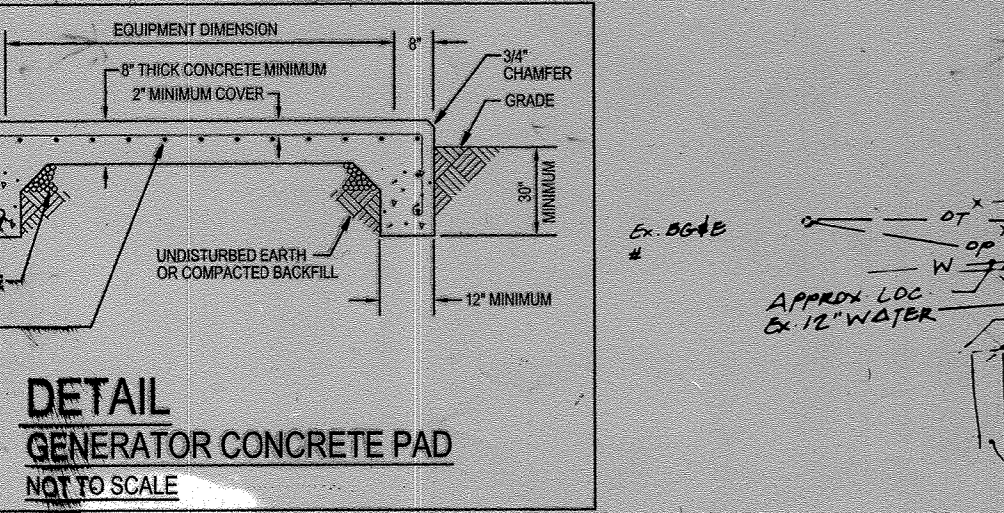
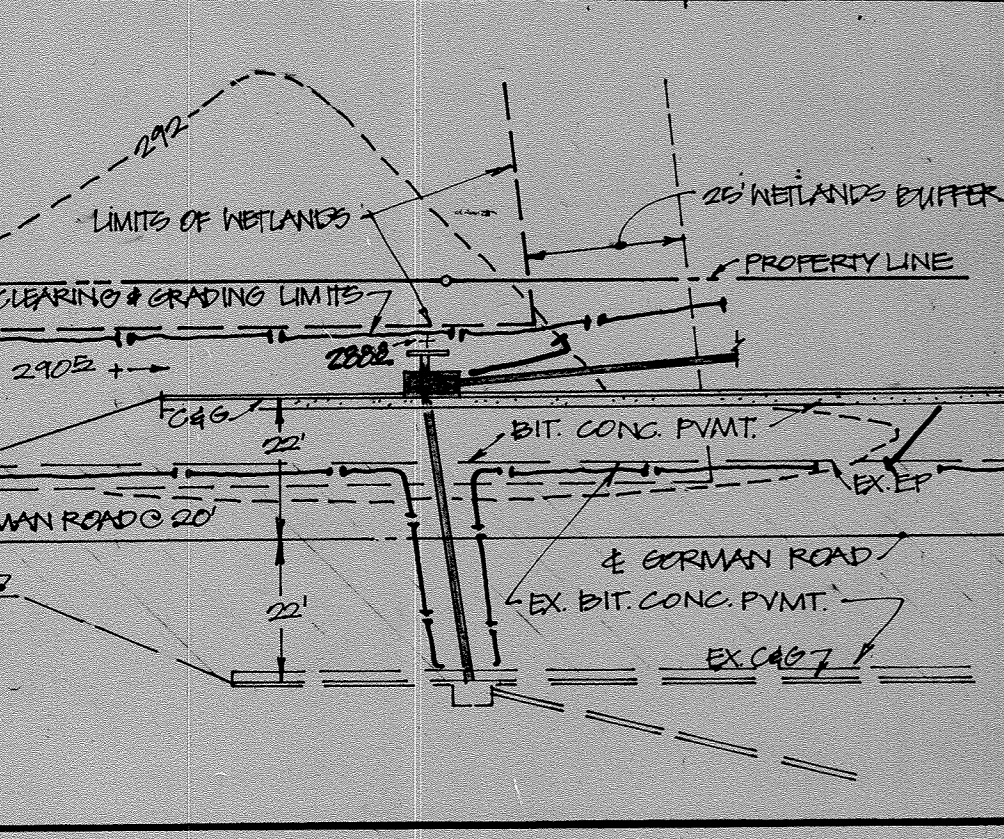
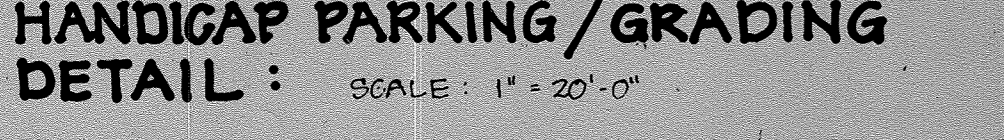
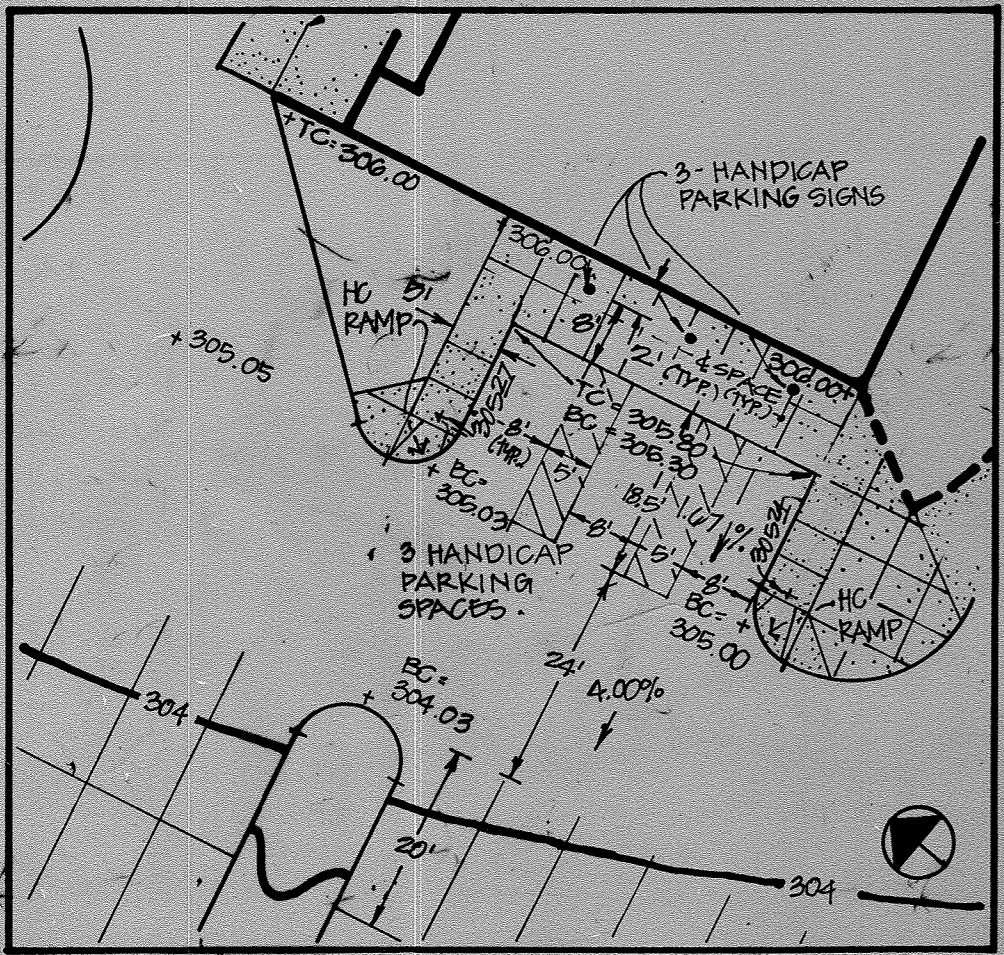
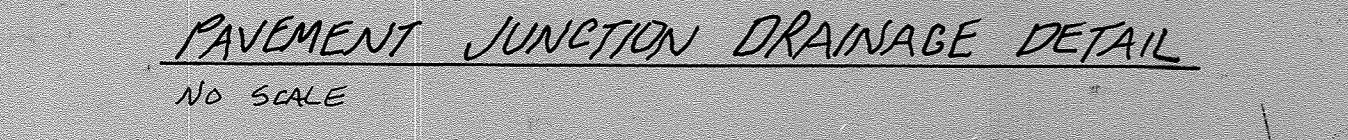
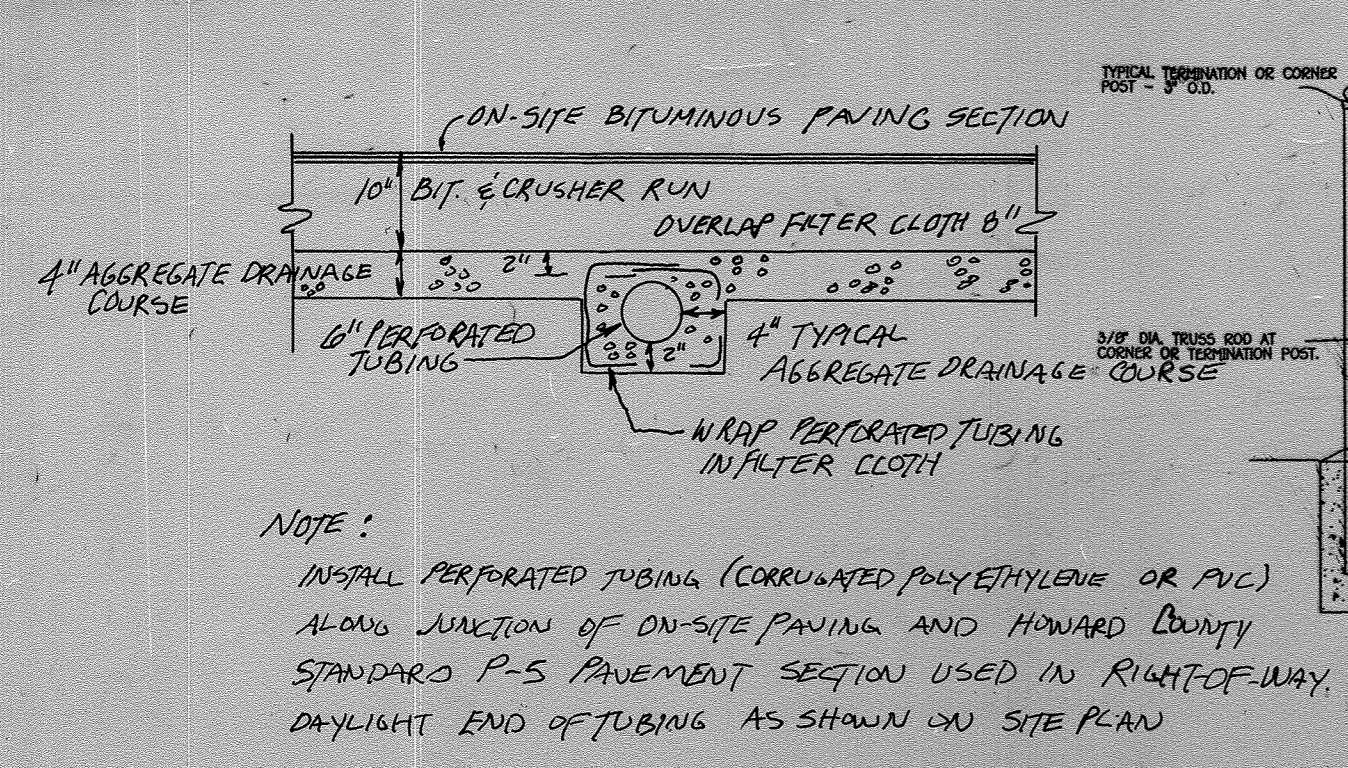
Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIBER: 2276 FOLIO: 0232  
Water Code: 003 Sewer Code: G100000

SDP-91-80

Architect's Project No. 89181 CCI Project No. 091,030

Site Plan C-2

SDP-91-80



- NOTES:
- Parking Area lighting will be directed away from all residential areas and rights-of-way.
  - Street lighting will be provided on relocated C&P poles. 180-foot HPS pendant to be mounted on 20' high poles.
  - Coordinate site lighting with electrical drawing SE-1.
  - Coordinate geometry for building corners (b) and centerline for bus drop loop, entrance road & car pool drop will be provided.

4	RELOCATED GENERATOR AND SCREENING AND ADDED DETAILS	0-10-22
3	REVISED STORM DRAINS	11/12/20
2	ADDED NOTE TO SEE REVISED VENTILATION	10/11/19
1	Added building addition and play area	10-15-07
NO	REVISIONS	DATE

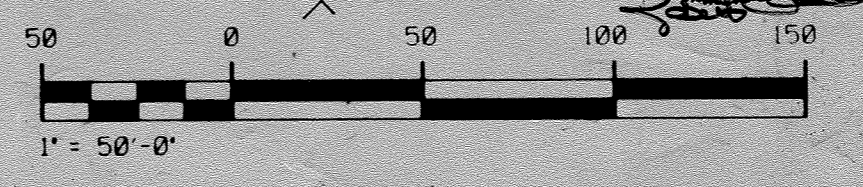


EX. UTILITY DATA

STRUCTURE	IOP	INVERT
EW*1		288.20 (Ex. 21'0\"/>

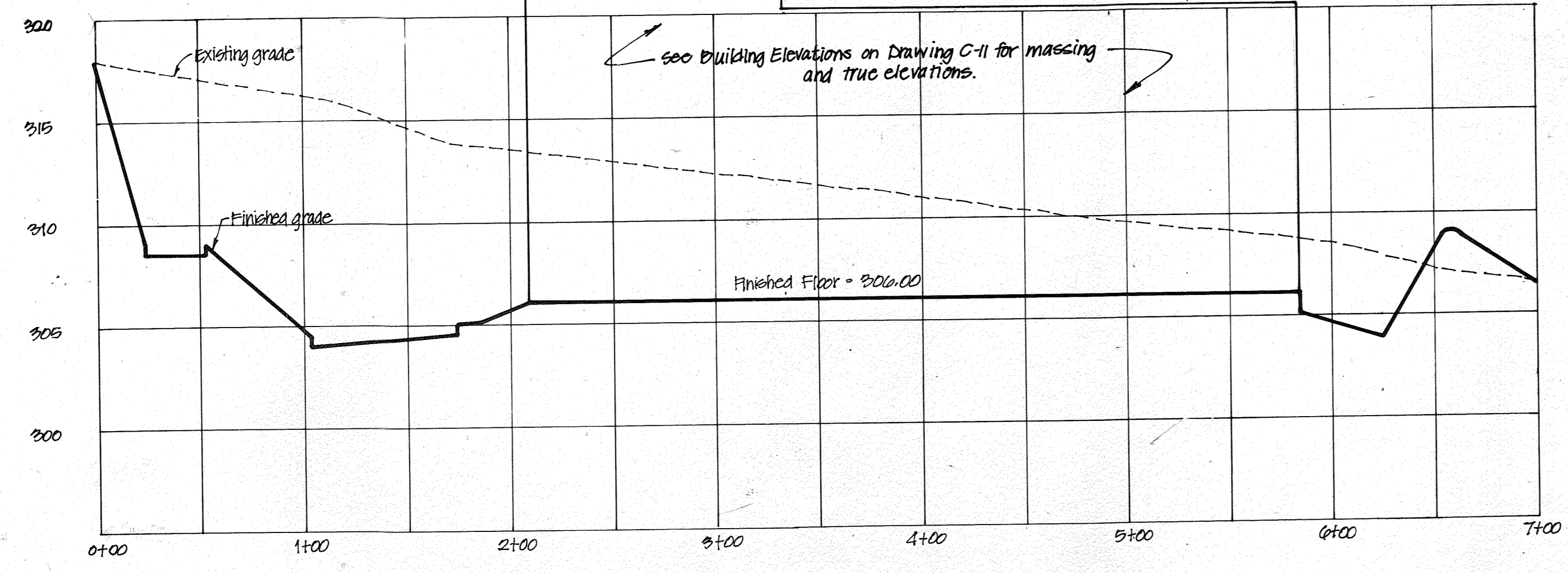
Professional Engineer stamps for **JEANNE COURT** and **FISHER, COLLINS & CARTER, INC.** with dates and signatures.

Professional Engineer stamps for **RUSSELL ROSS SMITH** and **STATE OF MARYLAND** with dates and signatures.



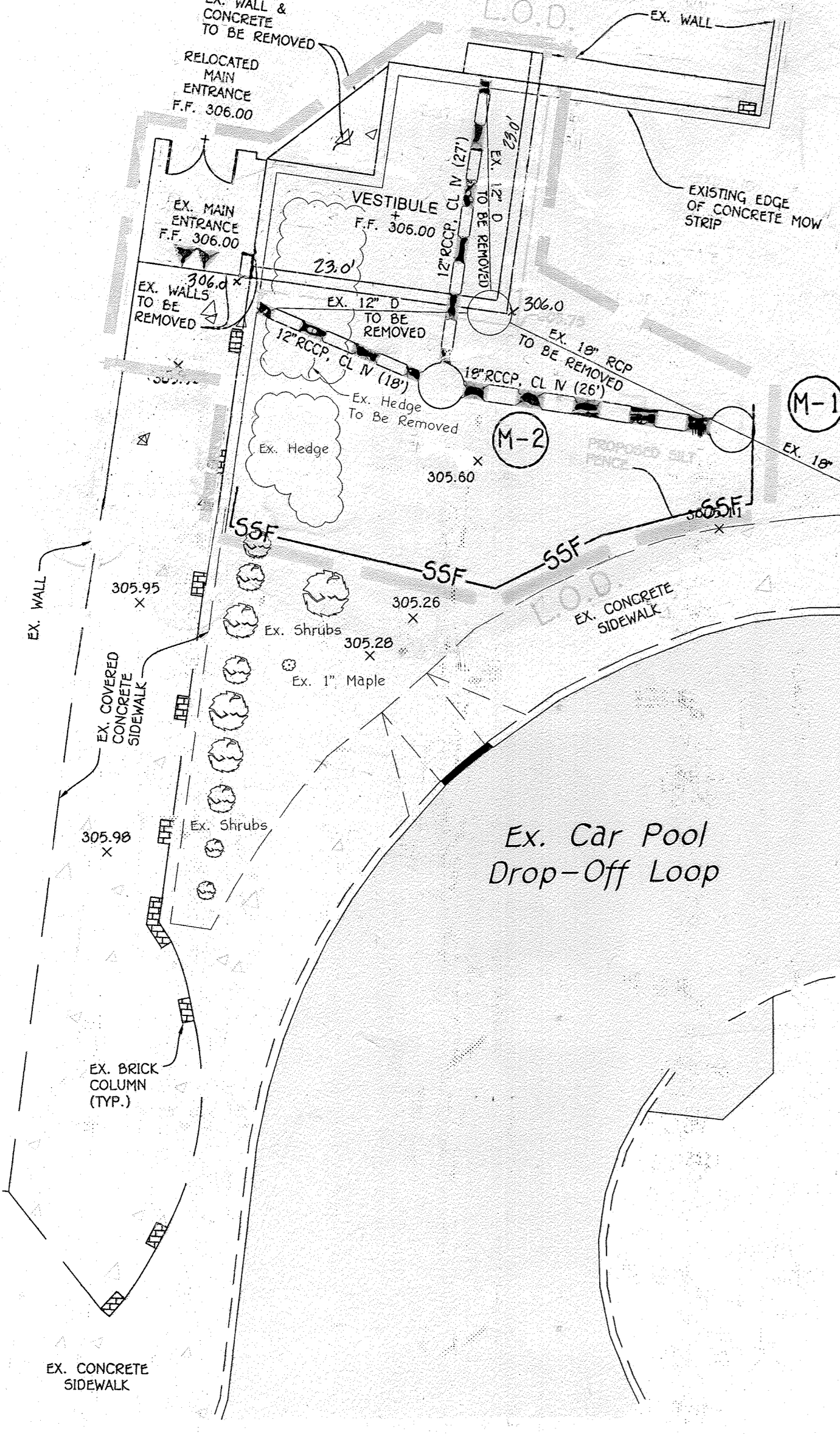
DD 24 SEPT 1990	REVISION PERM NO. 10/28/90	REVISION Final No. 246 04-12-91
CD	REVISION 01-04-90	REVISION
PERMIT 21 DEC 1990	REVISION H.C. 2nd Sub. 03-15-91	REVISION
ISSUE 010 03-15-91	REVISION Add No. 1-270 03-27-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

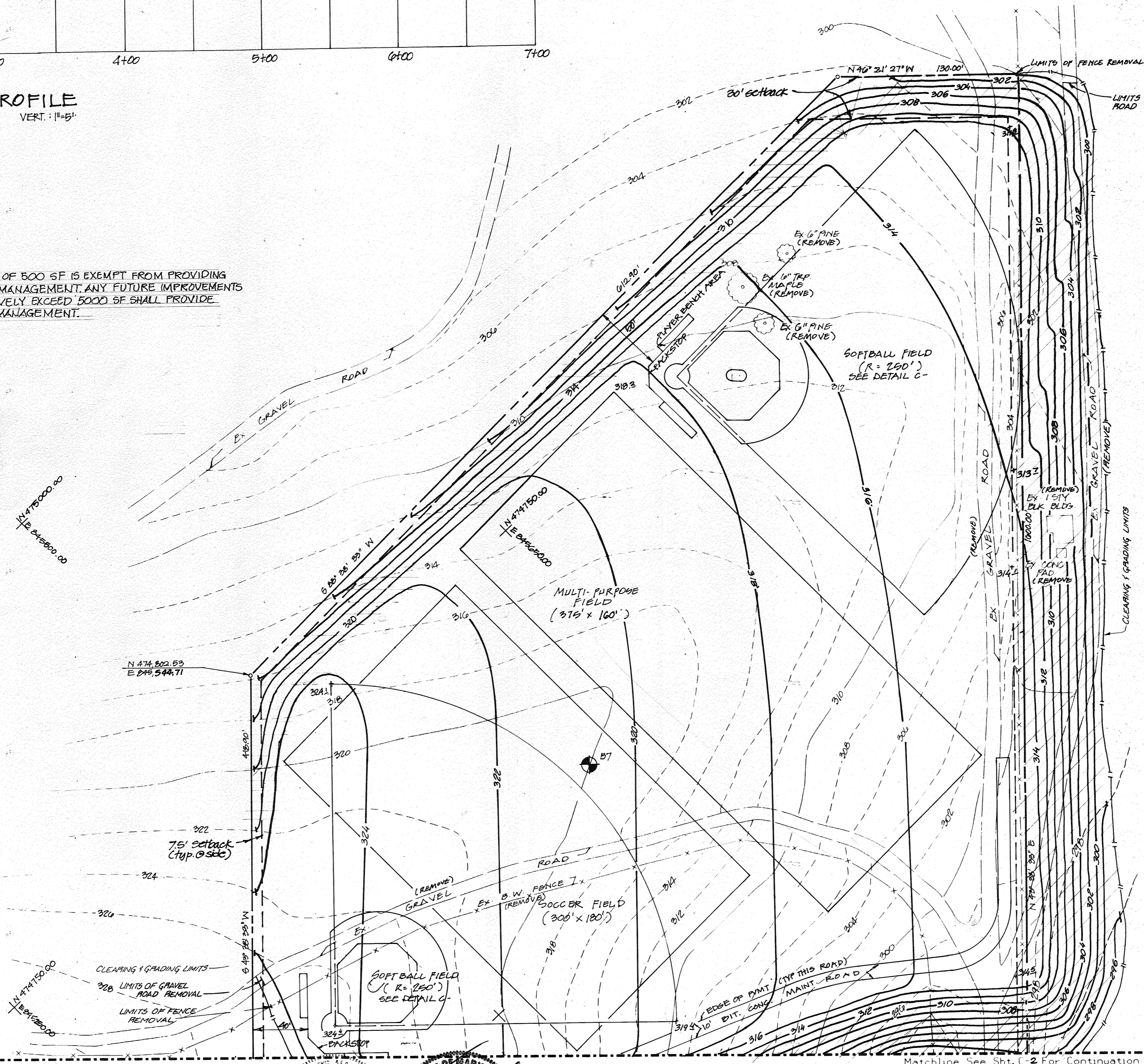


**SITE PROFILE**  
HORIZ: 1"=50' VERT: 1"=5'

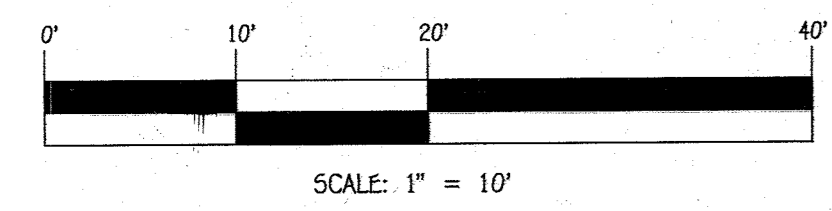
**FOREST RIDGE ELEMENTARY SCHOOL**  
ONE STORY BRICK BUILDING  
F.F. 306.00



NOTE: THE LOD OF 500 SF IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT. ANY FUTURE IMPROVEMENTS THAT CUMULATIVELY EXCEED 5000 SF SHALL PROVIDE STORMWATER MANAGEMENT.



**REVISED VESTIBULE PLAN**



No.	Revisions Description	Date
1	Added Revised Vestibule Plan & Gwn. Note	10-1-19
2	REVISED VESTIBULE PLAN	11/8/20

Professional Engineer seals for **FISHER, COLLINS & CARTER, INC.** and **REV 2 1/8/20**. Includes a north arrow and a graphic scale for the main site plan (1"=50').

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.  
*James M. Hahn* 4/16/91  
S.S. Soil Conservation District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
*Robert J. Zilmer* 4/16/91  
Howard Soil Conservation District Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Boyd* 4-25-91  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James H. Hahn* 4/29/91  
DIRECTOR DATE  
*James L. ...* 7/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING & LAND-USE DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Robert J. Zilmer* 4/25/91  
DIRECTOR (Acting) DATE  
*James ...* 4-25-91  
CHIEF BUREAU OF ENGINEERING DATE

**Eddy & Eckhardt o Architects**  
9912 G Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-759-3500 Fax 759-5519

**CIVIL ENGINEER**  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

**STRUCTURAL ENGINEER**  
SWSG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

**MECHANICAL/ELECTRICAL ENGINEER**  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6083  
Tax Map 47  
Water Code: 003  
Sewer Code: 010000  
SDP-91-20

Architect's Project No. 89181  
Client Project No. 091090

Matchline See Sht. C-5 for Continuation

Matchline See Sht. C-3 for Continuation

"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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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: *William Brown* Date: 4/12/91  
 Signature of Engineer: *Russell P. Smith* Date: 4/11/91

"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 Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer: *Russell P. Smith* Date: 4/11/91

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.

Signature: *J. Hehn* Date: 4/16/91  
 U.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

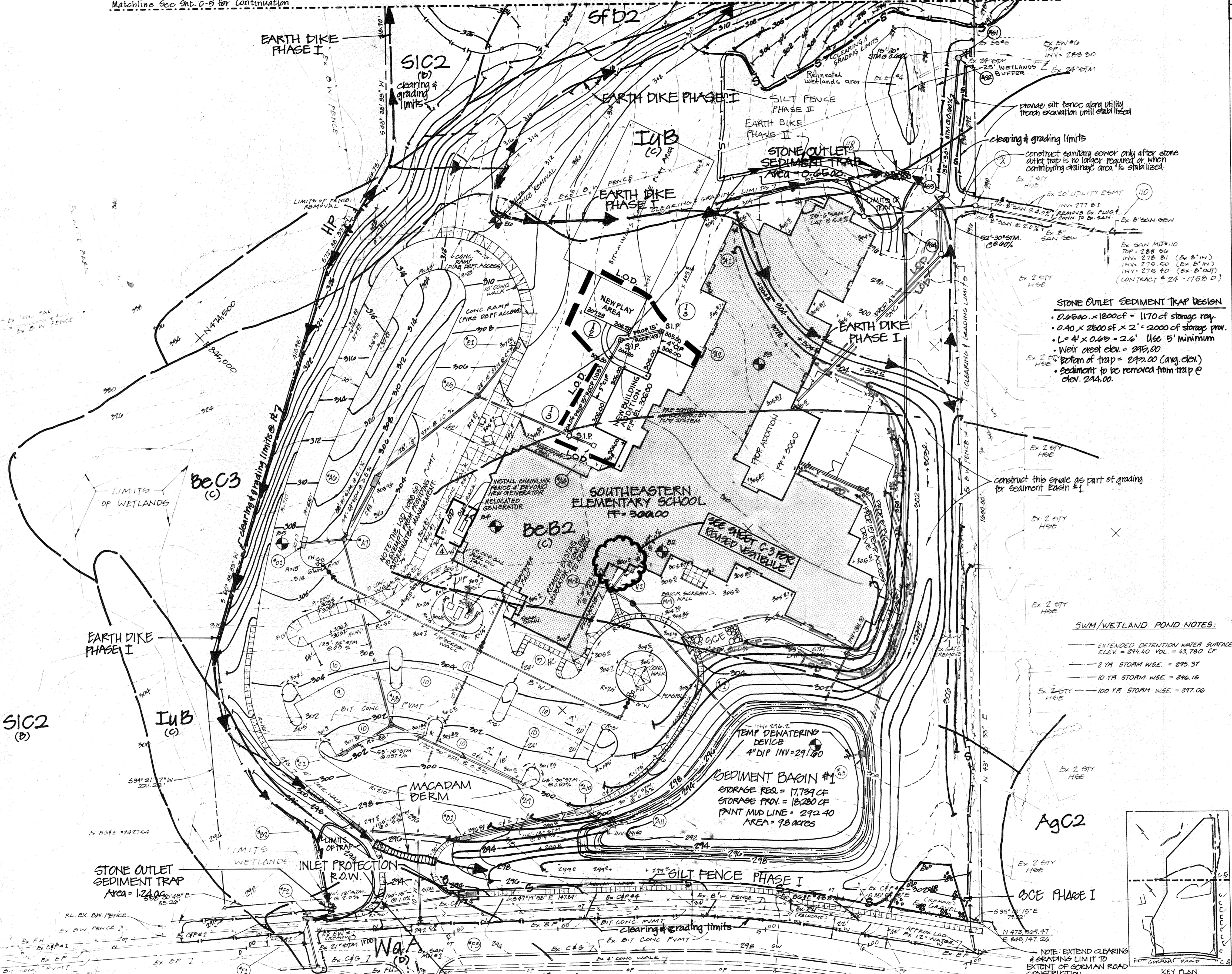
Signature: *Robert W. Zielman* Date: 4/16/91  
 Howard Soil Conservation District

SOIL TYPE	SLOPE	HYDRIC	HYDRIC INCL	EROSIVE
BcB2	1-5%	-	-	✓
BcB3	5-10%	-	-	✓
IuB	1-5%	✓	-	✓
SfD2	10-15%	-	-	✓
SfC2	5-10%	-	-	✓
N/A	0-5%	✓	-	-
AgC2	5-10%	-	-	-

**CONSTRUCTION SEQUENCE FOR CLASSROOM ADDITION**

1. Obtain grading permit
2. Notify "Miss Utility" at least 48 hours before beginning work at 1-800-257-7777. Notify the Howard County Office of Construction/Inspection at 410-313-1330 24 hours before starting work.
3. Install sediment control measures shown on the plans: 1 week
4. Grade to subgrade classroom addition area.
5. Construct classroom addition: 9 months.
6. Fine grade disturbed areas and stabilize with permanent seeding
7. Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.

NO	REVISIONS	DATE
4	REPLACE GENERATOR	5-16-92
3	REVISED STORM DRAINING	1/8/92
2	ADDED NOTE TO SEE REVISIONS	10/1/91
1	ADDED BUILDING ADDITION AND PLAY AREA	10-15-91



**STONE OUTLET SEDIMENT TRAP DESIGN**

- 0.60 x 1800 CF = 1170 CF of storage cap.
- 0.40 x 2500 SF x 2' = 2000 CF of storage prov.
- L = 4' x 0.60 = 2.4' Use 5' minimum
- Weir crest elev. = 293.00
- Bottom of trap = 292.00 (avg. elev.)
- Sediment to be removed from trap @ elev. 294.00.

**SWM/WETLAND POND NOTES:**

- EXTENDED DETENTION WATER SURFACE ELEV. = 294.40 VOL. = 43,760 CF
- 2 1/2" STORM WISE = 295.37
- 10 1/2" STORM WISE = 296.16
- 100 1/2" STORM WISE = 297.06

**ROAD** Provide temporary curb cut necessary to maintain positive drainage to sediment trap during construction.

STRUCTURE	TOP	INVERT
EW#1	288.20 (E. 21' Out)	286.40 (E. 21' In)
EW#2	284.80 (E. 30' Out)	282.20 (E. 30' In)
EW#3	282.90 (E. 30' In)	282.20 (E. 30' Out)
EW#4	287.20 (E. 24' Out)	283.50 (E. 24' Out)
EW#5	283.50 (E. 24' Out)	279.00 (E. 8' Out)
SANMH#1	291.80	

**STONE OUTLET SEDIMENT TRAP DESIGN**

- 1240 x 1800 CF = 2232 CF of storage cap.
- 0.40 x 3600 SF x 2' = 2880 CF of storage prov.
- L = 1240 x 4' = 4.96' Use 5' minimum
- Weir crest elev. = 293.00
- Bottom of trap = 292.00 (avg. elev.)
- Sediment to be removed from trap @ elev. 294.00

DD	REVISION	BY	DATE
01	24 SEPT. 1990	REVISION PER H.C. 10/28/90	Final H.C. 24-25-91
02	21 DEC. 1990	REVISION H.C. 24-25-91	Revised Play Area 4-23-92
03	05-10-91	REVISION Add. No. 1-91	BLDG. ADDITION 7-12-92
04	05-10-91	REVISION Add. No. 2-91	

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.  
 Signature: *James H. ...* Date: 4/16/91  
 U.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
 Signature: *Robert W. Zielman* Date: 4/16/91  
 Howard Soil Conservation District

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

Signature: *James H. ...* Date: 4-25-91  
 CHIEF HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature: *James H. ...* Date: 4/29/91  
 DIRECTOR

Signature: *James H. ...* Date: 4/23/91  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

Signature: *James H. ...* Date: 4/25/91  
 DIRECTOR (Acting)

Signature: *James H. ...* Date: 4-25-91  
 CHIEF BUREAU OF ENGINEERING

**Eddy & Eckhardt Architects**  
 9912 C. Georgetown Pk. • Box 477 • Great Falls, Virginia 22066 • 703-759-5500 Fax 759-5518

**CIVIL ENGINEER**  
 CAD - CON  
 3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
 703-280-2585 Fax 703-280-4640

**STRUCTURAL ENGINEER**  
 SWSG  
 209 Elden Street, 301 - Herndon, Virginia 22070  
 703-471-6803 Fax 703-742-1975

**MECHANICAL/ELECTRICAL ENGINEER**  
 Glassman Associates  
 1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
 703-790-1250 Fax 703-790-1257

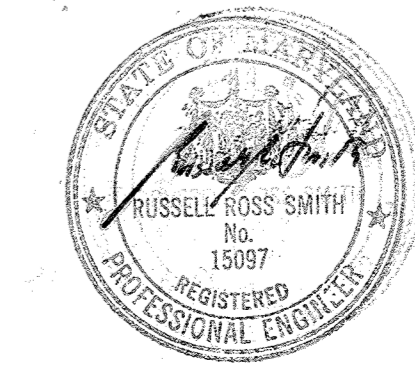
**FOREST RIDGE ELEMENTARY SCHOOL**  
 1992 SOUTHEASTERN ELEMENTARY SCHOOL  
 Howard County, Maryland

Howard County Board of Education  
 101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
 Tax Map 47  
 LIBER: 2374 FOLIO: 0232  
 Water Code: 003 Sewer Code: 010000

SDP-91-80  
 Architect's Project No. 89181 CCC Project No. 051-0180

**Erosion Control Plan C-4**



THIS PLAN FOR EROSION & SEDIMENT CONTROL ONLY. DO NOT USE FOR OTHER PERMANENT SITE IMPROVEMENTS!!

## Sediment Basin 2

Project Southeastern Elementary School  
Basin # 2 Location Northwest of Proposed Play Field Area  
Total Area draining to basin, 7.4 Acres.

### BASIN VOLUME DESIGN

1. Min. required sediment control volume = 67 cu. yds. x 7.4 ac. = 495.8 cu. yds. = 0.3073 ac.ft.
2. Min. required stormwater management storage (swm calcs., app. M) = 0.1552 ac.ft.
3. Total required sed. control and stormwater management volume is (0.3073 ac.ft. + 0.1552 ac.ft.) = 0.4625 ac.ft.
4. Minimum remaining sediment control vol. before cleanout = 27 cu. yds. ac. Then, filled volume corresponding to scheduled time to clean out is: (67 - 27) = 40 cu. yds. x 7.4 ac. = 0.1835 ac.ft.
5. Bottom of basin elevation = 297.60
6. See swm calcs., appendix M for stage storage chart for basin no. 2
7. Elevation corresponding to scheduled time to clean out = 300.18 ft.
8. Set clean out line at elevation 300.18
9. Elevation corresponding to min. required sediment control vol. = 300.87 ft.
10. Set riser top at clean out line plus 1 ft. minimum = 301.20 ft.
11. Basin volume at riser crest elevation of 301.20 = 0.3641 ac.ft.

### DESIGN OF SPILLWAY

11. See swm calcs., appendix M, for TR-20 results. Pre-developed runoff = Allowable Qp(10) = 9.9 cfs. Developed runoff = 12.01 cfs
12. No emergency spillway. Minimum pipe spillway capacity = 12.01 cfs
13. Pipe spillway outlet invert (see plan) = 296.00 ft.
14. Water surface elevation at total required sediment control and stormwater management volume of 0.4625 ac.ft. = 301.80 ft.
15. Select spillway pipe diameter = 18 inches
16. H = 301.8 - (296.0 + 0.75) = 5.05 ft.; Barrel length = 70.0 ft.
17. Capacity = 12.2 x 1.0 (correction factor) = 12.2 cfs (adequate)
18. Head on riser crest is (301.80 - 301.20) = 0.60 ft.
19. Select riser diameter to allow maximum of 9.9 cfs at 0.60 ft. head. Riser diameter = 27 inches; Riser Length = (301.20 - 297.60) = 3.60 ft.
20. Trash rack: Diam. = 42 inches; H = 15 inches.

### ANTI-SEEP COLLAR DESIGN

21. y = 3.60 ft.; z = 4:1; pipe slope = 1.0%; Ls = 30.00 ft. Use 2 collars, 4 ft. - 0 in. square; projection 1 ft. - 3 in.

### DESIGN ELEVATIONS

22. Riser Crest = 301.20 Design High Water = 301.80  
Em. Spillway Crest = N/A Top of Dam = 308.30

"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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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  
Print name below signature  
William Brown 4/12/91

"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 Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer Date  
Print name below signature  
Russell R. Smith 4/11/91

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.

Signature of Reviewer Date  
Print name below signature  
J. Helms 4/16/91

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Signature of Reviewer Date  
Print name below signature  
Robert Ziehm 4/16/91

### 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, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

1. Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
2. Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc 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 (1.4 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 (.05 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 ton to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain 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 seeded areas and make needed repairs, replacements and reseeding.

### TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushels per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period 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 grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

## Sediment Basin 1

Project Southeastern Elementary School  
Basin # 1 Location Along German Road  
Total Area draining to basin, 1.7 Acres.

### BASIN VOLUME DESIGN

1. Min. required vol. = 67 cu. yds. x 1.8 ac. drainage = 657 cu. yds. = 0.4072 ac.ft.
2. Vol. of basin = 2,4009 ac.ft. = 3274 cu. yds.
3. Excavate cu. yds. to obtain required capacity. Min. vol. before cleanout = 27 cu. yds. x 1.8 ac. drainage = 265 cu. yds. Elevation corresponding to scheduled time to clean out 292.40 (0.243 ac.ft. filled) distance below top of riser (throat) 1.80'

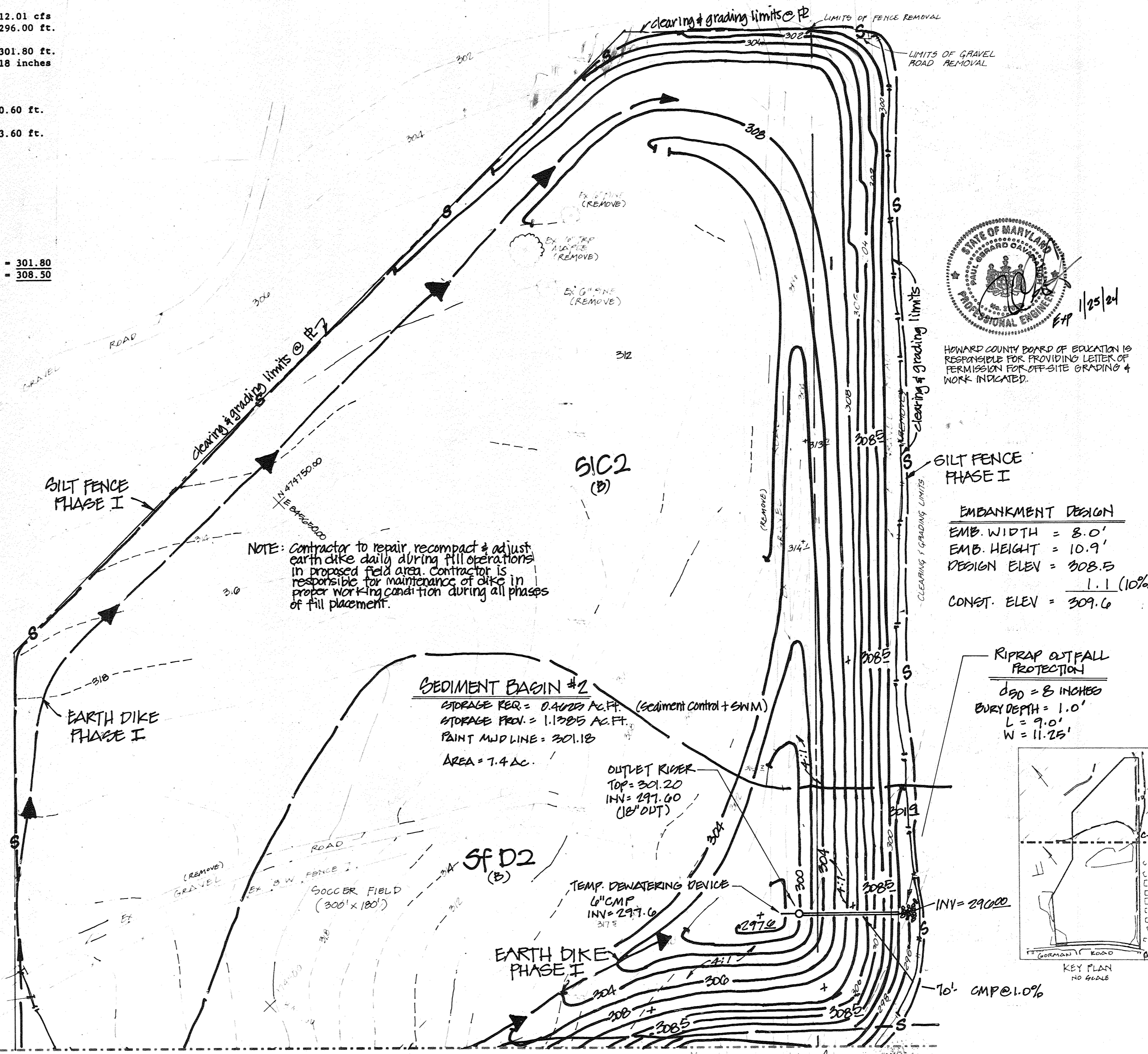
### DESIGN OF SPILLWAYS

See Stormwater Management Calculations

### ANTI-SEEP COLLAR DESIGN (if Required)

12. y = 5.56 ft.; z = 3:1; pipe slope = 0.5%, Ls = 29.7 ft. Use 2 collars, 5' - 6" square; projection = 1.4 ft.

NOTE: Minimum required volume for sediment control is reached at elevation 292.77. Permanent riser throat invert is set at elevation 294.20. All stormwater management volume is provided above the permanent riser throat invert elevation. See stormwater management calculations.



NOTE: SEE DRAWING C-4 FOR EOLLS CHART.

DATE 24 SEPT 1990	REVISION PERMITS 10/24/90	REVISION
CD	REVISION 01-04-91	REVISION
PERMIT 21 DEC 1990	REVISION ALL NO. 3-2416 03-27-91	REVISION
ISSUE B10 03-13-91	REVISION FINAL REV 04-12-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

Signature of Reviewer Date  
Print name below signature  
James M. Helms 4/16/91

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Signature of Reviewer Date  
Print name below signature  
Robert Ziehm 4/16/91

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

Signature of Approver Date  
Print name below signature  
James M. Helms 4-25-91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature of Approver Date  
Print name below signature  
James M. Helms 4/29/91

APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

Signature of Approver Date  
Print name below signature  
James M. Helms 4/29/91

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

Signature of Approver Date  
Print name below signature  
James M. Helms 4-25-91

Signature of Approver Date  
Print name below signature  
James M. Helms 4-25-91

Eddy & Eckhardt o Architects  
9912-C Georgetown Pike Box 477 Great Falls Virginia 22060 703-759-5500 Fax 703-759-5519

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWSG  
209 Elden Street 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glassman Associates  
1640 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

FOREST RIDGE ELEMENTARY SCHOOL  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Elllicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
Water Code : 603 Sewer Code : 6100000

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

Architect's Project No. 89181

THIS PLAN FOR EROSION & SEDIMENT CONTROL ONLY. DO NOT USE FOR OTHER PERMANENT SITE IMPROVEMENTS!!

SDP-91-80

# Erosion Control Narrative

## GENERAL:

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (301-992-2437).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within seven calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes exceeding 3:1 and within fourteen calendar days for all other disturbed areas.
4. All sediment traps/basins to be fenced with warning signs posted at the perimeter in accordance with Volume 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 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for permanent seedings (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and to be maintained in operating condition until permission is obtained from the Howard County Sediment Control Inspector for their removal.
7. Total site area = 20.6 acres  
Area disturbed = 20.6 acres  
Areas to be roofed or paved = 5.61 acres  
Areas to be vegetatively stabilized = 14.42 acres  
Wetlands/Undisturbed = 0.57 acres  
Total cut = 90,000 cubic yards  
Total fill = 90,000 cubic yards  
Off-site waste/borrow area location = Not required
8. Additional sediment controls may be required as deemed necessary by the Howard County DPW sediment control inspector.
9. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
10. Approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment control and prior to any other earth disturbing or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

## EROSION CONTROL SEQUENCE - ON-SITE:

### Phase I

1. Install temporary construction entrance and silt fence along Gorman Road. Utilize existing gravel roadway for site access. Install perimeter silt fence in play field area. Construct spill excavation in play field area to begin construction of Sediment Basin #2.
  2. Construct associated storm drainage system 'G', riser and dewatering device.
  3. Permanently stabilize sediment basin slopes @ basin #1 and #2.
  4. Construct perimeter earth dike to divert off-site water and earth dikes to direct on-site run-off to sediment basin #1 and #2.
7. Begin earthwork operations in building and parking areas which drain to sediment basin #1. Spill excess material in play field area.

### Phase II

1. Maintain Phase I controls.
2. Repair, recompact and adjust earth dike directing run-off to sediment basin #2 daily during fill operations. Maintain dike in proper working condition.

### Whitties

1. Limit open trench to three pipe lengths or to whatever can be stabilized within one day whichever is less.

### Removal

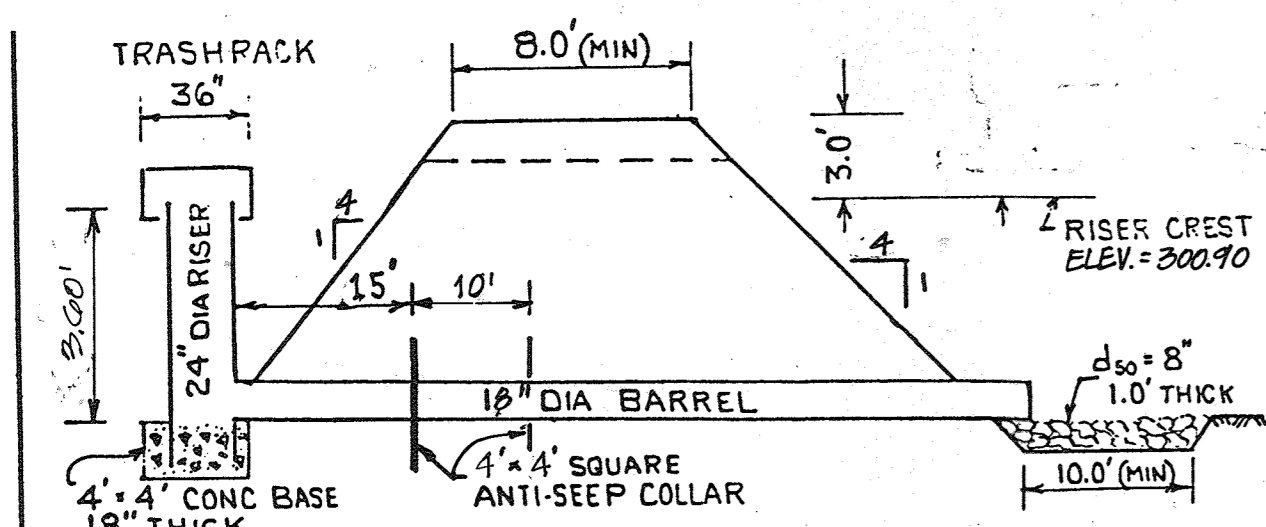
1. Remove sediment basin #2 after fill in the playfield area is placed, compacted and stabilized.
2. Maintain perimeter silt fence while filling sediment basin #2 area.
3. Permanently stabilize area disturbed by removal and filling of sediment basin #2.
4. Remove temporary controls when permission is obtained from Howard County Sediment Control Inspector.

## EROSION CONTROL SEQUENCE - RIGHT-OF-WAY:

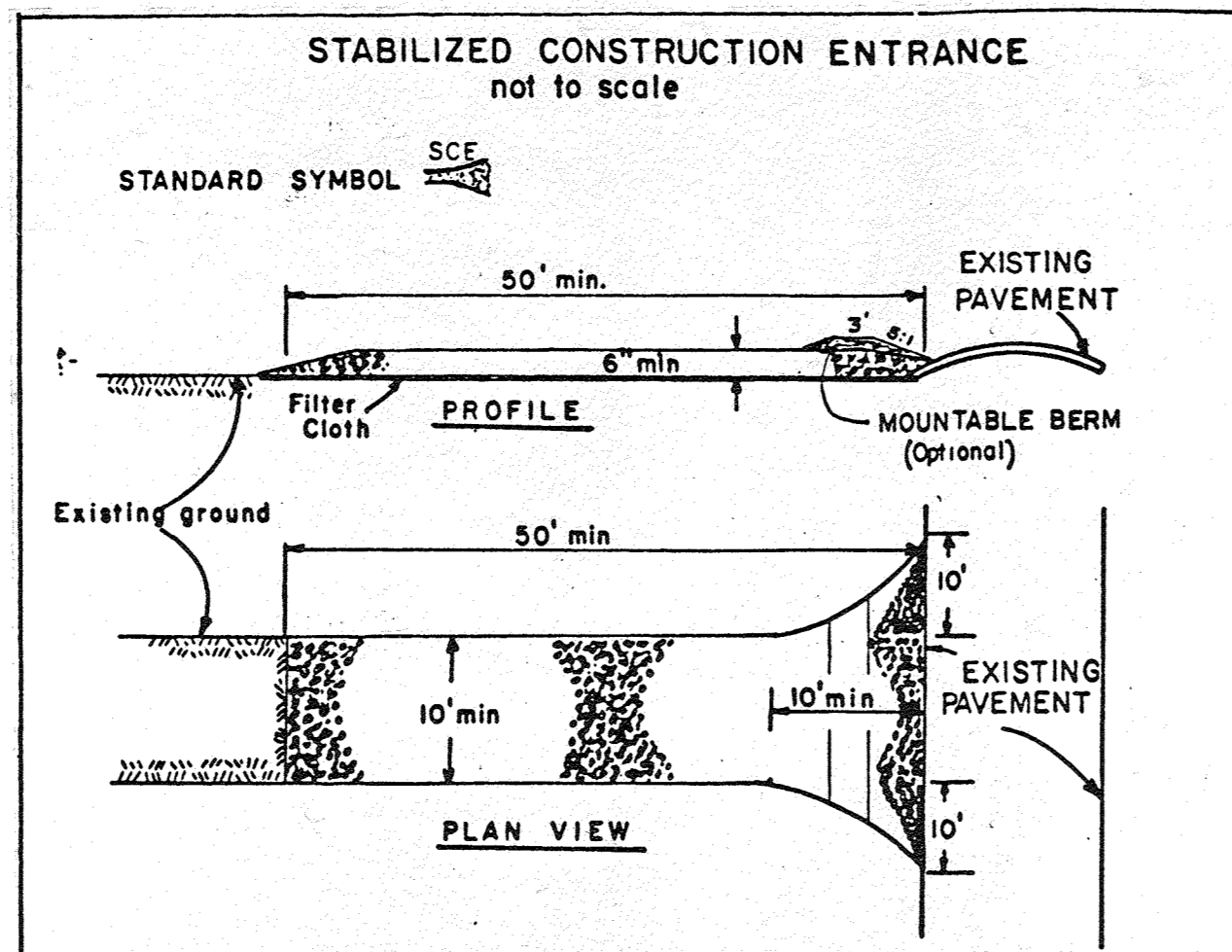
1. Install sediment trap as indicated.
2. Construct storm sewer system.
3. Remove controls after permanent stabilization of all disturbed area.

## CONSTRUCTION SCHEDULE:

- |  |          |
|--|----------|
| 1. Install Phase I and II temporary sediment control devices.  | 3 weeks  |
| 2. Clear and rough grade.  | 4 weeks  |
| 3. Install utilities (water, sewer and storm sewer).   | 4 weeks  |
| 4. Construct building.   | 52 weeks |
| 5. Stabilize with permanent vegetation and pavement.   | 4 weeks  |
| 6. Remove all sediment from temporary erosion control devices and permanently stabilize.                         | 1 week   |
| 7. Convert temporary sediment basin #1 to stormwater management pond and permanently stabilize.                  | 2 weeks  |
| 8. Remove all sediment control devices, repair and permanently stabilize disturbed areas resulting from removal. | 2 weeks  |
- Total time for construction = 14 months

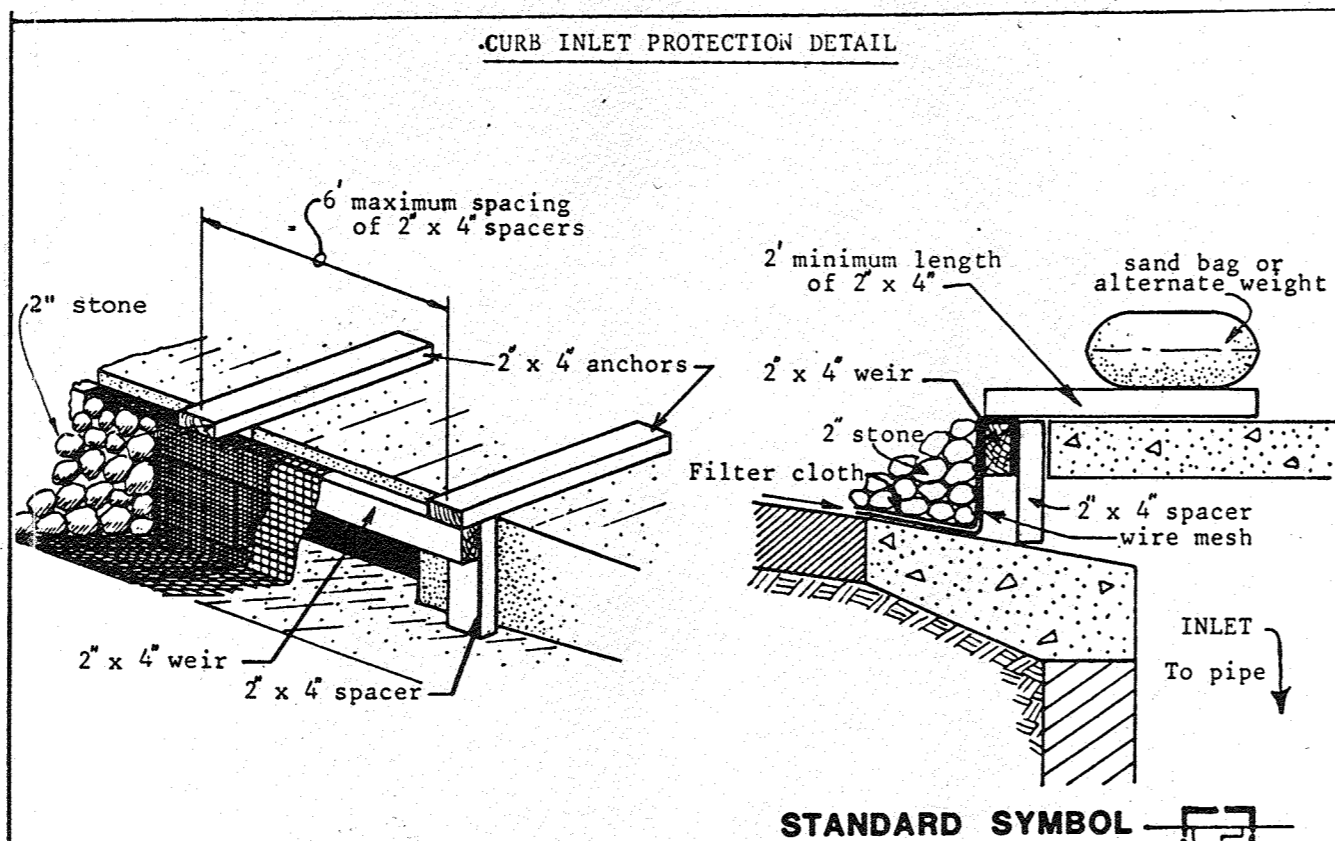


THIS DETAIL FOR SEDIMENT BASIN #2 ONLY.

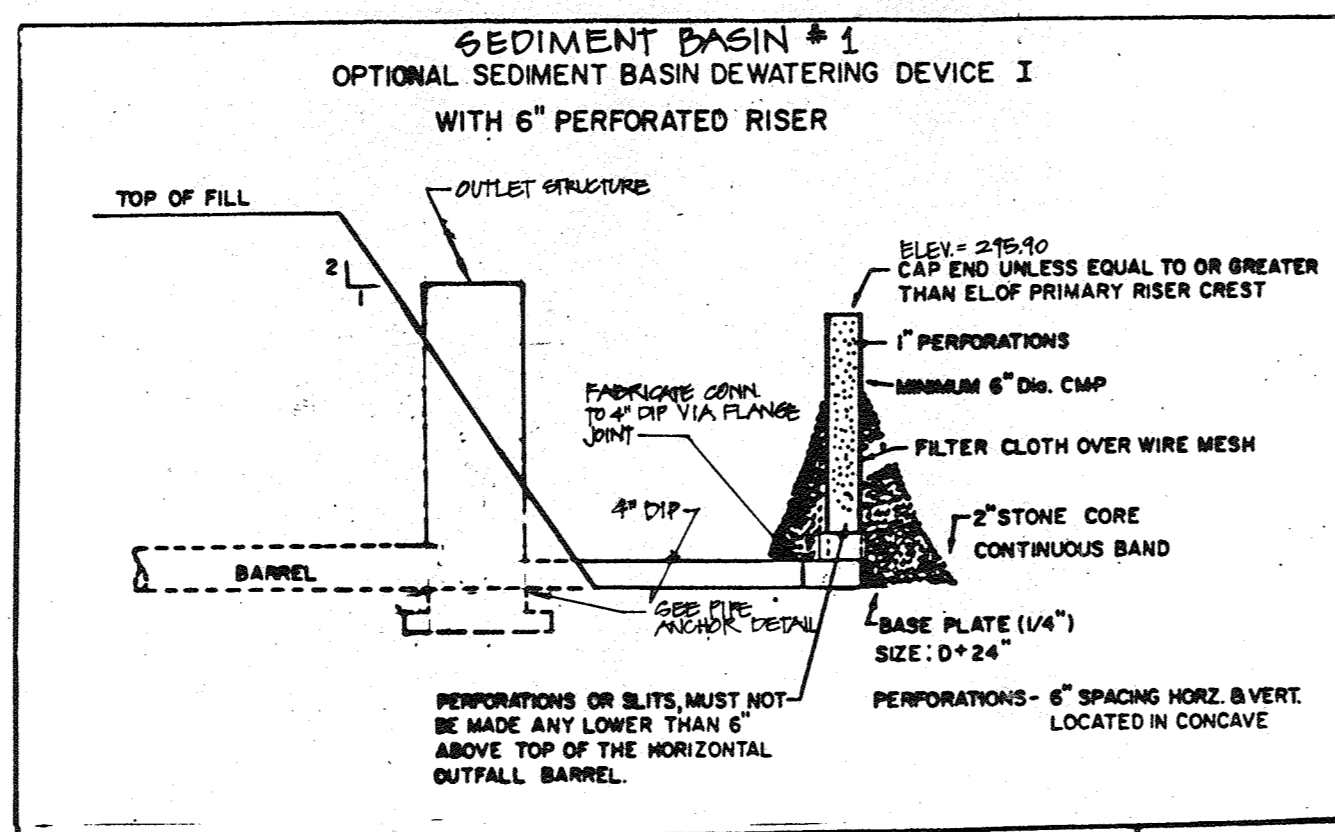


- CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  3. Thickness - Not less than six (6) inches.
  4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter 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 cleanout 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-way. 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.

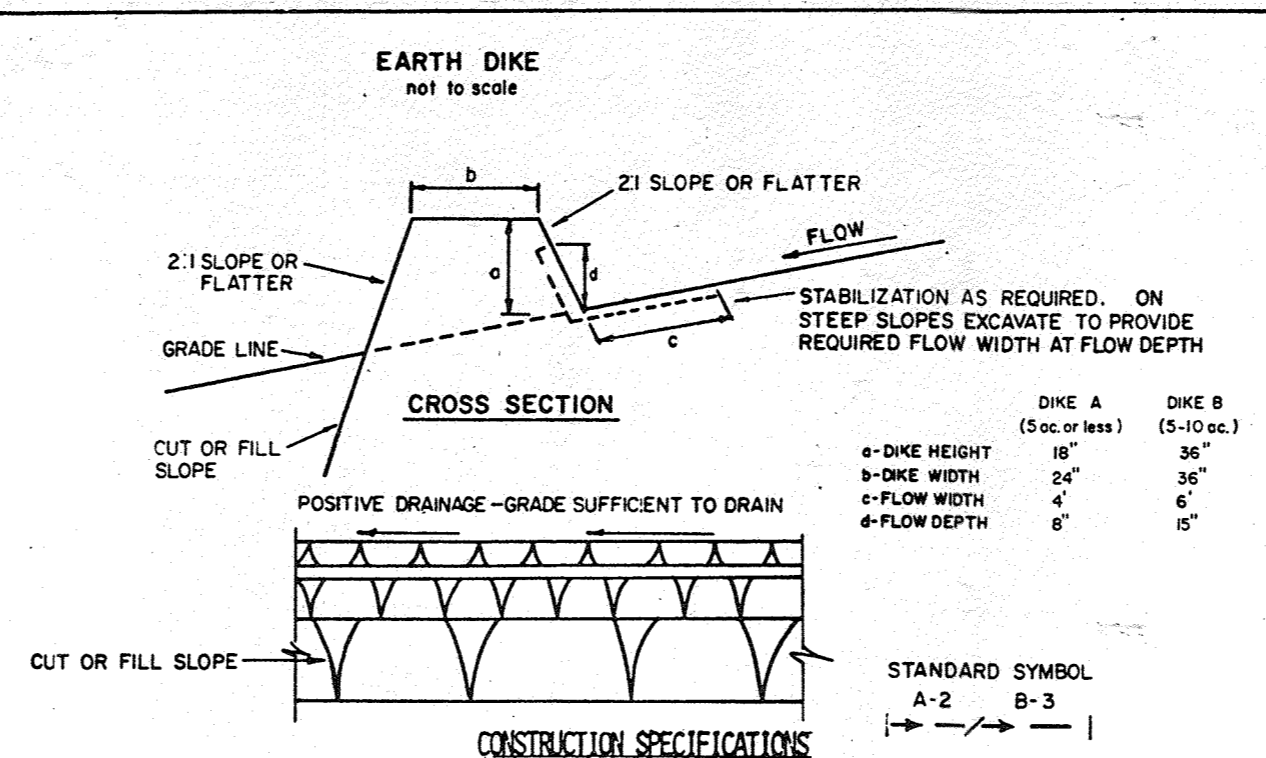
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

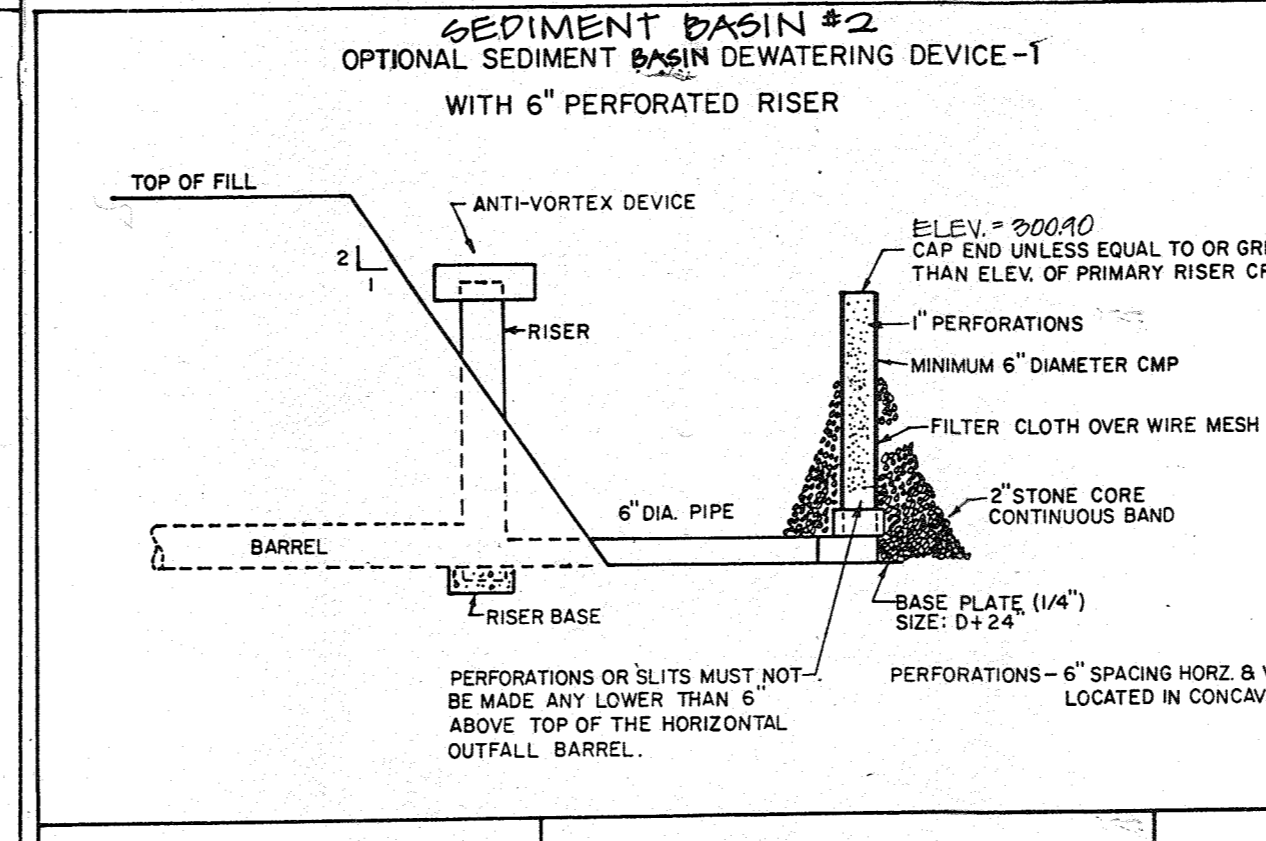


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

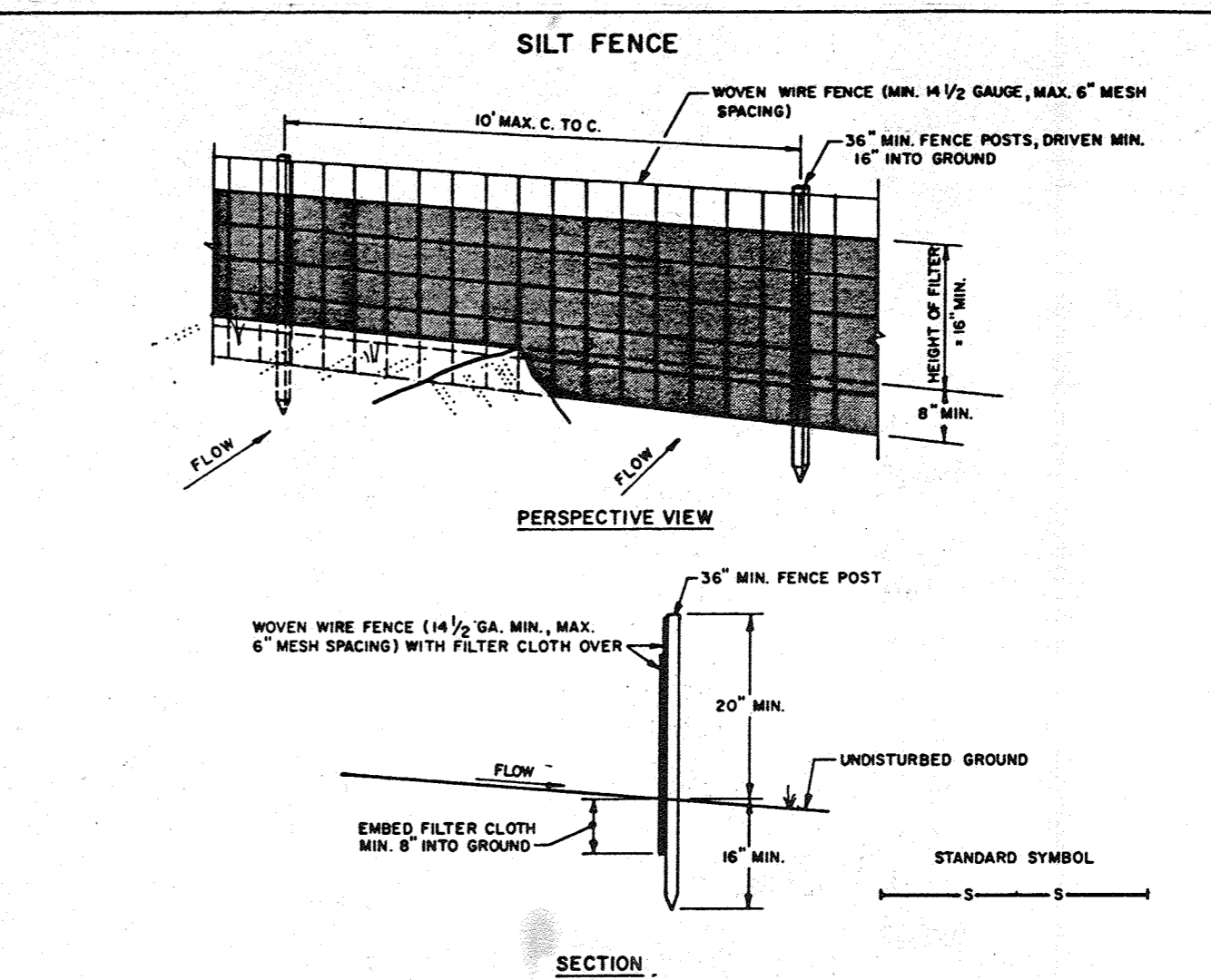


- CONSTRUCTION SPECIFICATIONS
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RANOFF 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 ABSOLUTELY STABILIZED.
  6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A                           | DIKE B                                       |
|-------------------|---------------|----------------------------------|--|
| 1                 | 5-3.0%        | SEED AND STRAW MULCH             | SEED AND STRAW MULCH                         |
| 2                 | 3.1-5.0%      | SEED AND STRAW MULCH             | SEED USING JUTE, OR EXCELSTOR; 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 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.  
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

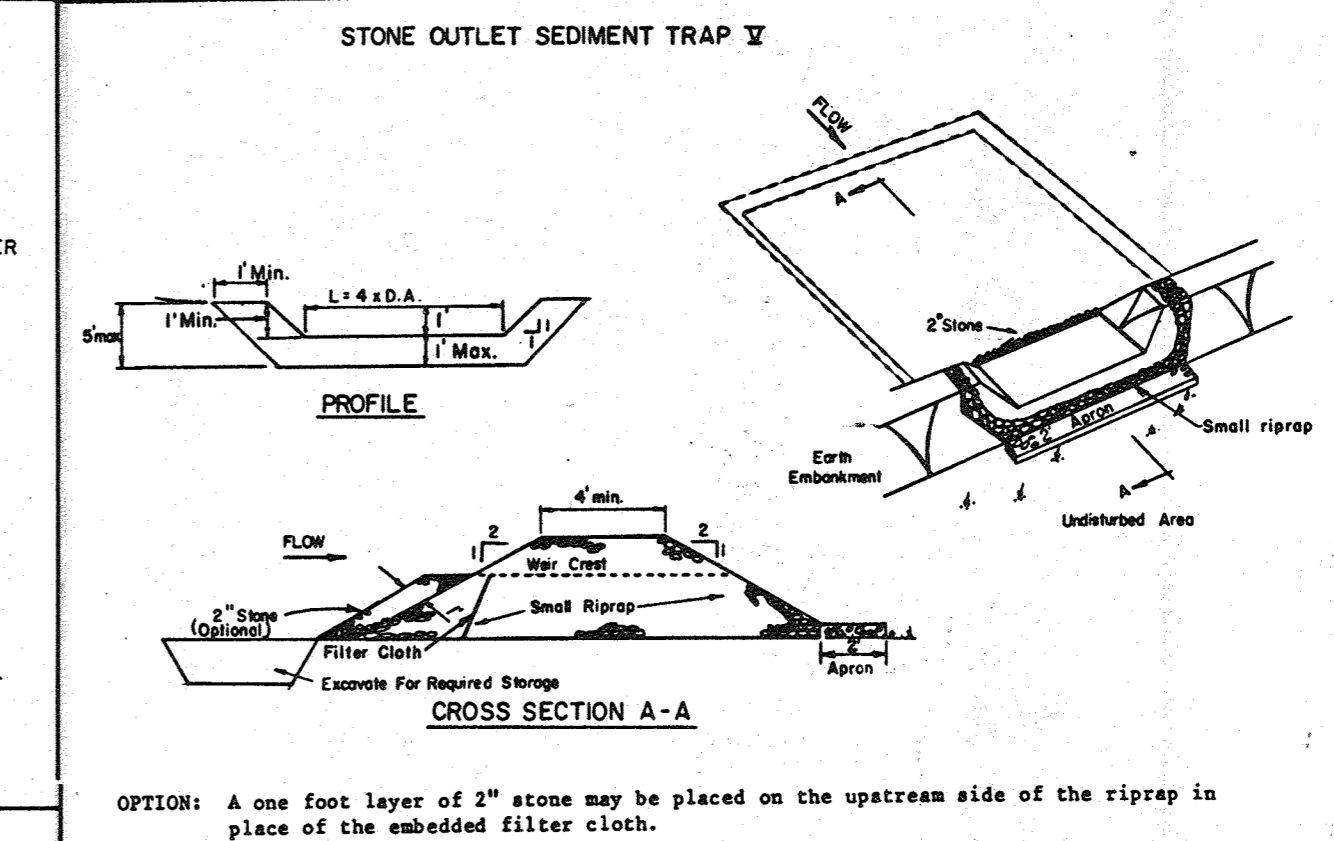


U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND



- 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 MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES 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 GA. 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFIL 1000, STABILINA 114RN OR APPROVED  
PREFABRICATED UNIT: GEOFAB, SWIRDFENCE, OR APPROVED EQUAL.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

DATE	REVISION	BY	DATE
	1	J.M.	4/25/91
	2	J.M.	4/29/91
	3	J.M.	4/29/91
	4	J.M.	4/29/91
	5	J.M.	4/29/91

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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. Approved by: *James M. Nelson* Date: 4/16/91

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District. Approved by: *Robert W. Ziehm* Date: 4/16/91

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

STONE OUTLET SEDIMENT TRAP

STANDARD DRAWING ST-X

REVISIONS

NO	1	Added standard inlet protection detail	10-19-07
		REVISIONS	Date

Professional Engineer Seal: Eddy & Eckhardt, Architects

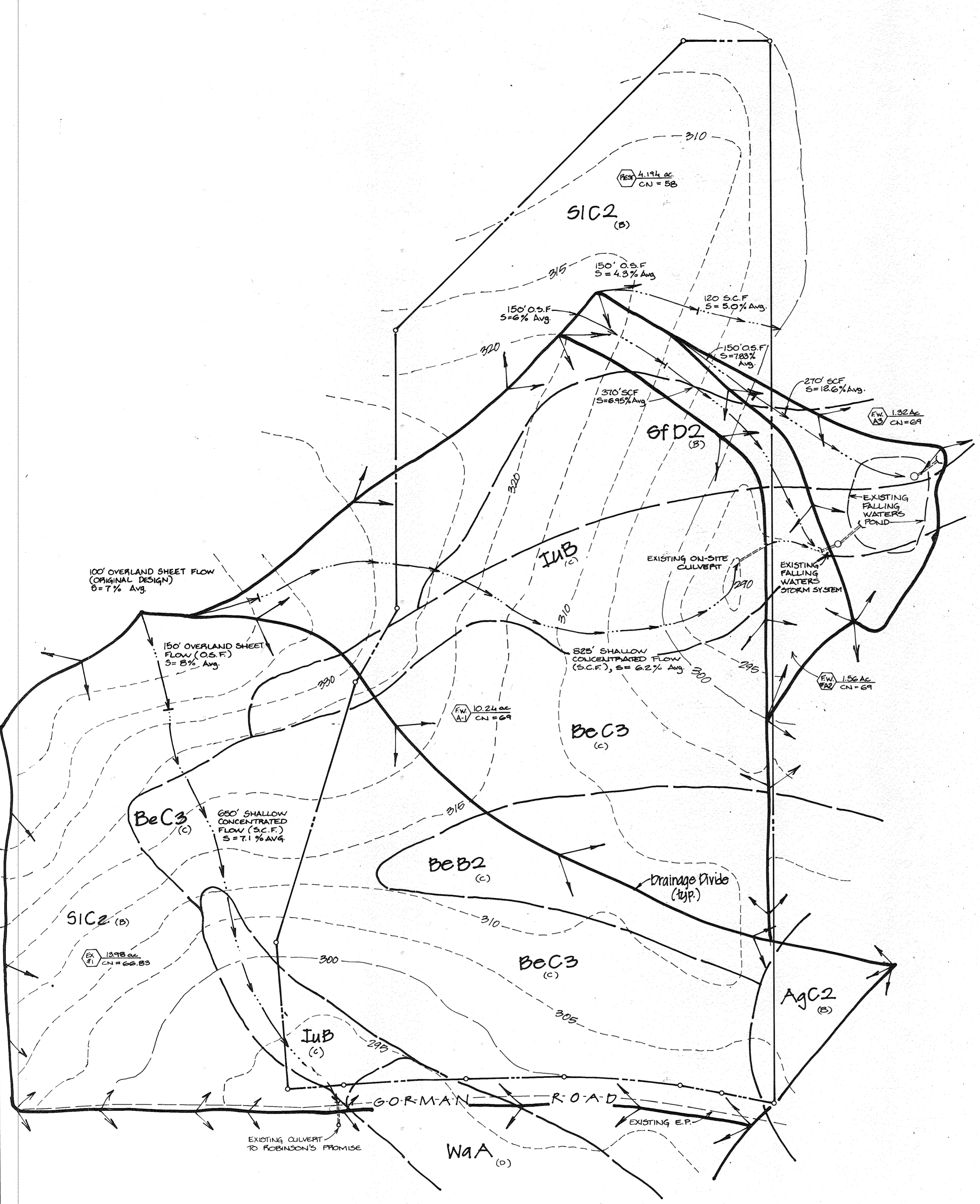
Erosion Control Details and Specifications C-6

STP-91-00

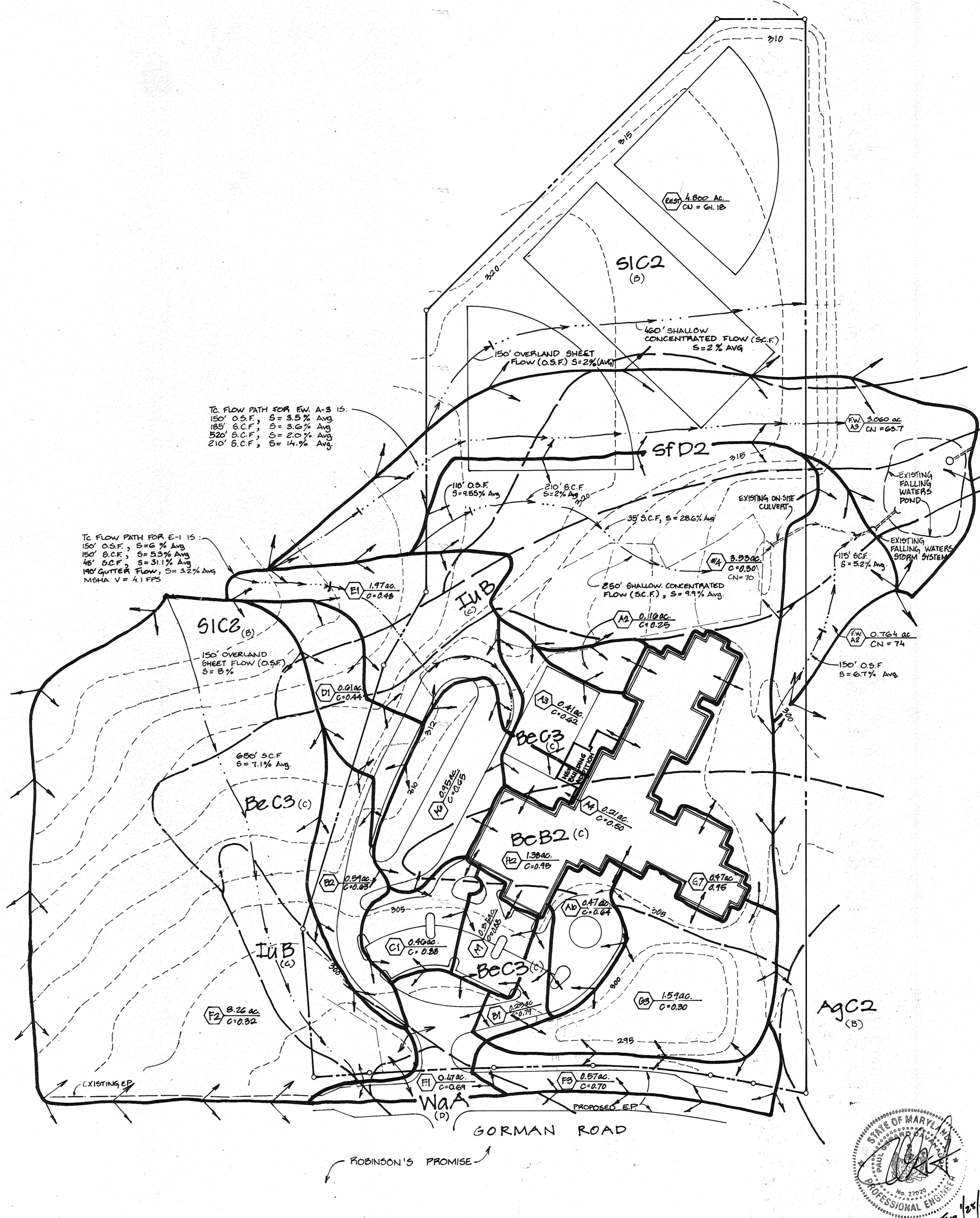
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

REVISED	01-04-90	REVISION
REVISED	11-23-90	REVISION
REVISED	03-15-91	REVISION
PERMIT	21 DEC. 1990	Final H.C. 300 04/28/91
ISSUE	B10 03-13-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.



**SOILS & EXISTING DRAINAGE**  
1"=100' NORTH



**SOILS & PROPOSED DRAINAGE**  
1"=100' NORTH

NOTE: SOIL BOUNDARIES ARE ADJUSTED FROM SOIL SURVEY MAPS TO REFLECT ACTUAL FIELD CONDITIONS AS DETERMINED FROM THE WETLANDS REPORT. REFER TO DRAWINGS C-4 & C-5 FOR SOILS MAPPED @ 1"=50' AND TABULAR SOILS CHART.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT		DATE	4-25-91
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING		DATE	4/29/91
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE. STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		DATE	4/25/91

**Eddy & Eckhardt Architects**  
9912 C Georgetown Pike - Box 477 - Great Falls, Virginia 22066 - 703-759-5500 Fax 759-5519

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWSG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

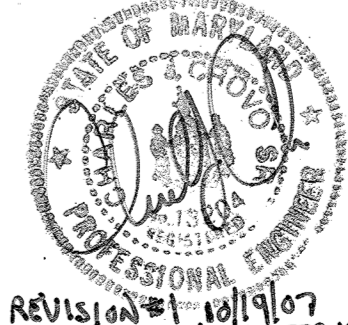
**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIBER: 2276 FOLIO: 0232  
Water Code: 003 Sewer Code: 0100000

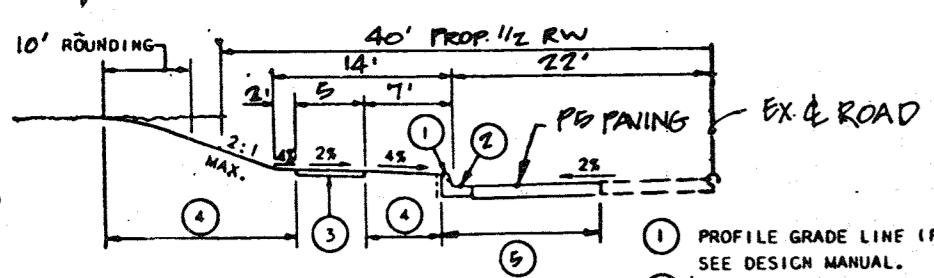
Architect's Project No. 89181

**Drainage Divide and Soils Maps** C-7



1	Added Building addition	10-19-07
No	REVISIONS	DATE

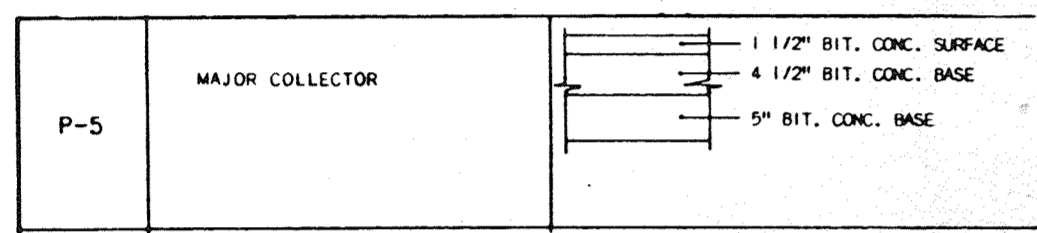
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.



- 1 PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
- 2 STD. CONC. CURB & GUTTER.
- 3 4" CONCRETE SIDEWALK
- 4 INDICATES 2" TOPSILL, SEED AND MULCH.
- 5 12' PROPOSED WIDENING SECTION (IN ACCORDANCE WITH DETAIL 10.01)

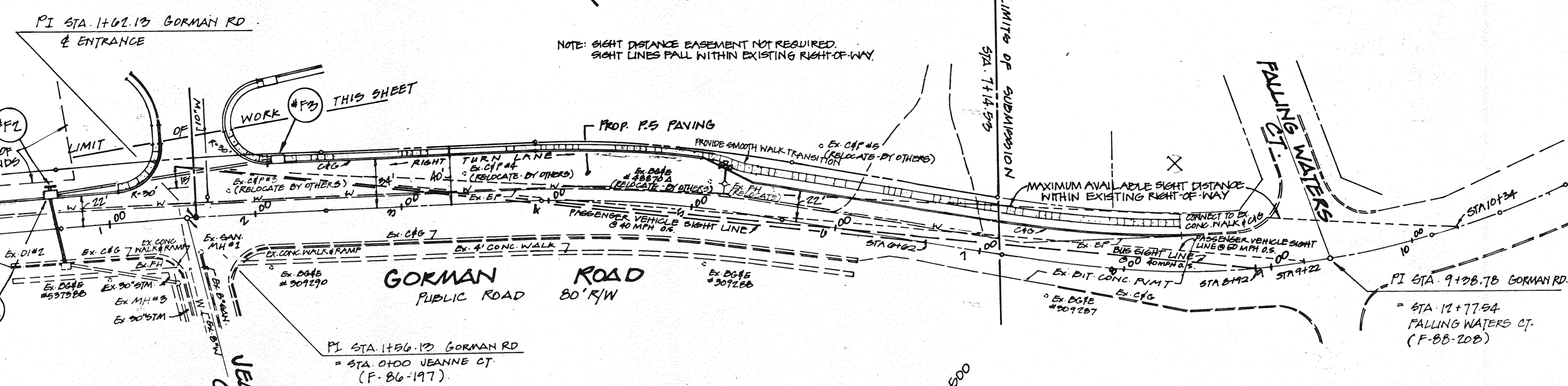
**TYPICAL SECTION: PROPOSED 1/2 R/W**  
NO SCALE

GORMAN RD: STA. 0+00 TO STA. 7+14.50  
SITE DISTANCE = 450 FEET  
(TABLE 2.02, DESIGN SPEED 50MPH, AVG. GRADE 2%)



**TYPICAL PAVING SECTION P-5**  
HOWARD COUNTY DEPT. OF PUBLIC WORKS

- NOTES:**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH VOLUME IV OF THE HOWARD COUNTY DESIGN MANUAL STANDARDS AND SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  - SDP SIGN SHALL BE IN ACCORDANCE WITH HOWARD COUNTY TRAFFIC DIVISION SPECIFICATION RI-1.



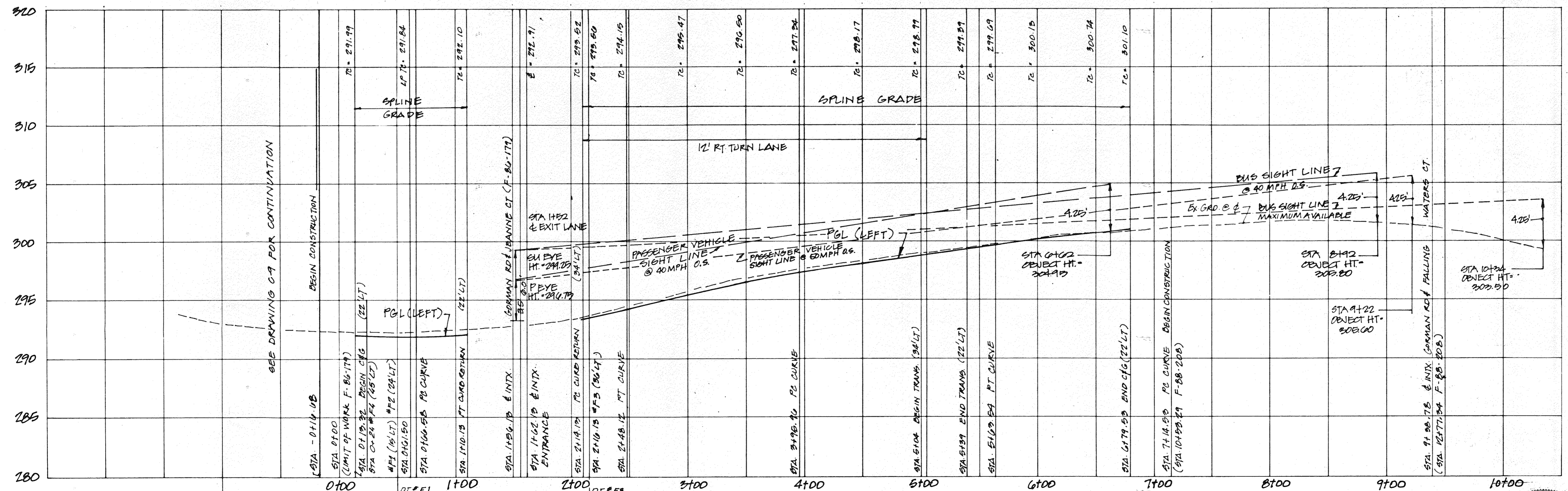
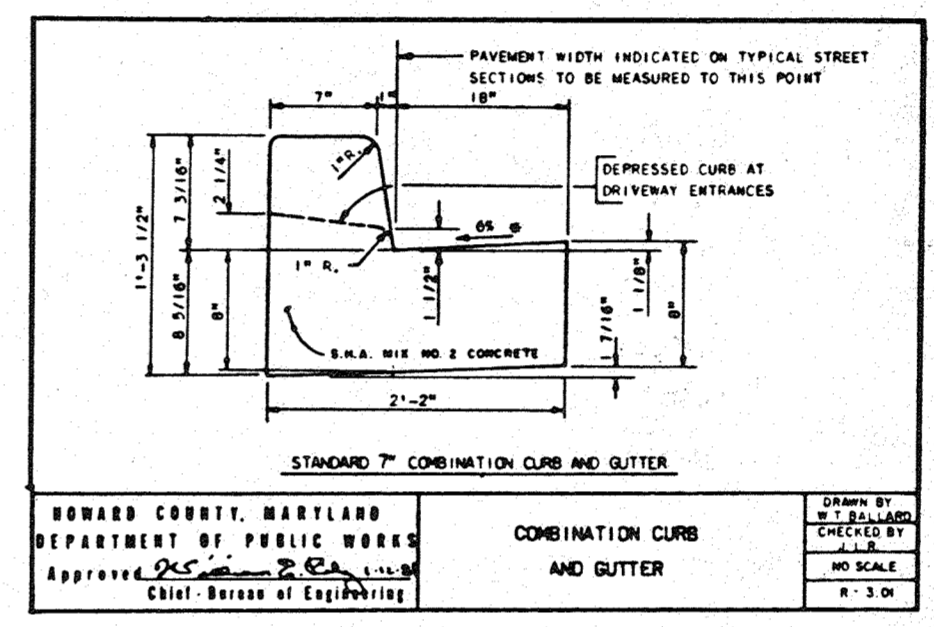
**PLAN**

SCALE: 1"=50'

GORMAN RD & CURVE DATA  
R=3140.00'  
L=181.54'  
TAN=90.79'  
Δ=3°18'45"  
CHD=181.51'  
CHD BR.=S 48°59'20"E  
D=1°49'29"

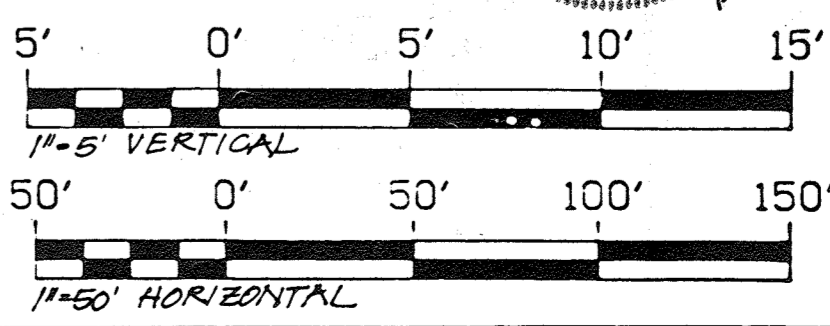
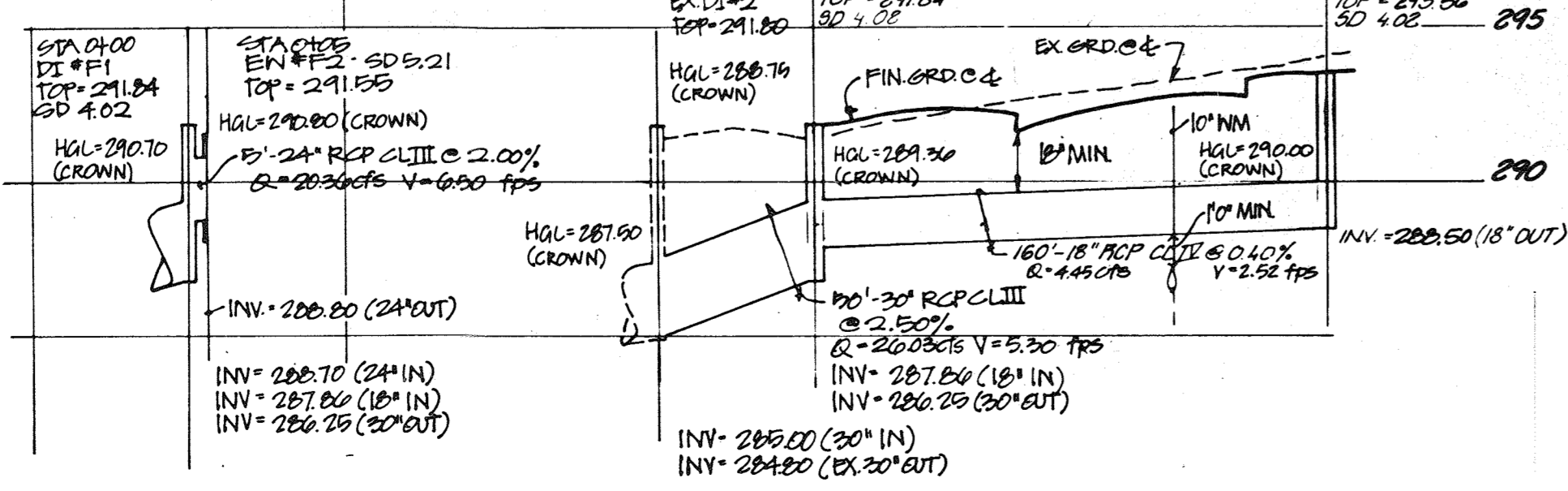
GORMAN RD & CURVE DATA  
R=840.00'  
L=167.58'  
TAN=84.07'  
Δ=11°25'50"  
CHD=167.50'  
CHD BR.=S 41°31'03"E  
D=6°49'15"

NOTE: USE DEPRESSED CURB AT HANDICAP RAMPS - NO LIP. REVERSE SLOPE @ GUTTER WHERE GRADE SLOPES AWAY FROM CURB.



**PROFILE**

SCALE: HORIZ. 1"=50' VERT. 1"=5'



DD	REVISION	NO. 204 Sub. 03-15-91	REVISION
CD	REVISION	Final R.C. Sub. 04-12-91	REVISION
PRMNT	21 Dec. 1990	REVISION	REVISION
ISSUE	BID B3-B-91	REVISION	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,**  
HOWARD COUNTY HEALTH DEPARTMENT.  
COUNTY HEALTH OFFICER: *John M. Boyd* DATE: 4-25-91

**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING**  
DIRECTOR: *James S. Keefe* DATE: 4/29/91

**APPROVED: HOWARD COUNTY DEPARTMENT OF COMMUNITY PLANNING & LAND DEVELOPMENT**  
CHIEF DIVISION OF COMMUNITY PLANNING: *J.A. [Signature]* DATE: 4/25/91

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS**  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR (Acting): *[Signature]* DATE: 4-25-91

CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 4-25-91

**Eddy & Eckhardt Architects**  
1212-C Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-798-0200 Fax: 703-798-0201

**CIVIL ENGINEER**  
CAD - CIVIL  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax: 703-280-4640

**STRUCTURAL ENGINEER**  
SWSG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax: 703-742-3975

**MECHANICAL/ELECTRICAL ENGINEER**  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax: 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Elllicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
Water Code: C03 PWL0: 0232  
Sewer Code: 0100000  
SDP-91-20

Architect's Project No. 89181 CSE Project No. 051-030

**Gorman Road Plan and Profile** C-8

SDP-91-80



These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

**SITE DISTANCE ANALYSIS**  
 BASED ON FIGURE 2.21 "SIGHT DISTANCE AT INTERSECTIONS"

ROAD DESIGNATION: MAJOR ROAD (2 LANES) PASSENGER VEHICLE SIGHT DISTANCE REQUIREMENTS $P = 4.1 \text{ fps}^2$			
OPERATING SPEED 40 MPH		OPERATING SPEED 50 MPH	
$D_L$ : Left turn: 440'	$D_R$ : Left turn: 540'	$D_L$ : Left turn: 540'	$D_R$ : Left turn: 800'
Right turn: 510'	Cross: 420'	Right turn: 770'	Cross: 520'
Cross: 370'		Cross: 460'	

Use worst case for evaluation:

540' for left turn @  $D_R$   
 510' for right turn @  $D_L$

Average slope:  $D_R \frac{8.9}{540} = 1.65\%$   
 $D_L \frac{7.45}{510} = 1.46\%$

Therefore multiply sight distance requirements by 1.0.

BUS SIGHT DISTANCE REQUIREMENTS (SU = 2.4 $\text{fps}^2$ )			
OPERATING SPEED 40 MPH		OPERATING SPEED 50 MPH	
$D_L$ : Left turn: 630'	$D_R$ : Left turn: 790'	$D_L$ : Left turn: 780'	$D_R$ : Left turn: 1200'
Right turn: 740'	Cross: 550'	Right turn: 1140'	Cross: 680'
Cross: 490'		Cross: 620'	

Use worst case for evaluation:

790' for left turn @  $D_R$   
 740' for right turn @  $D_L$

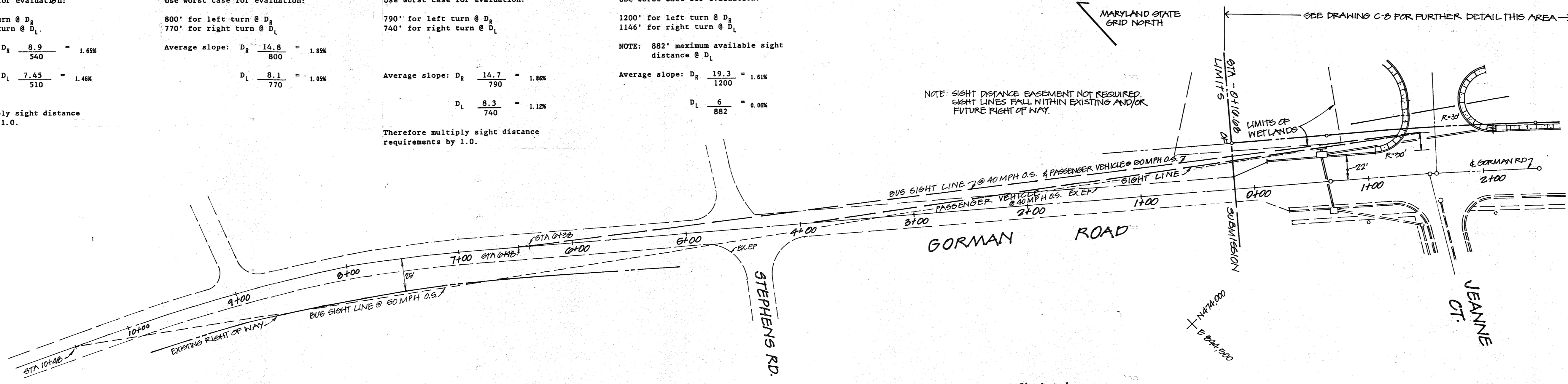
Average slope:  $D_R \frac{14.7}{790} = 1.86\%$   
 $D_L \frac{8.3}{740} = 1.12\%$

Therefore multiply sight distance requirements by 1.0.

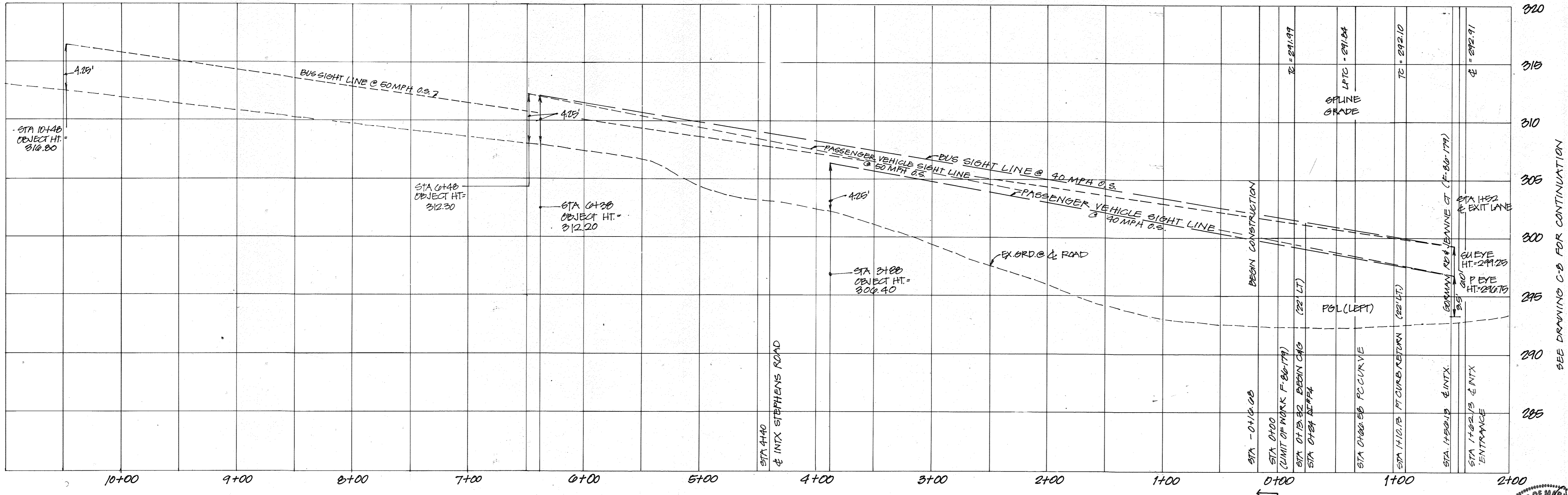
NOTE: 882' maximum available sight distance @  $D_L$

MARYLAND STATE GRID NORTH  
 SEE DRAWING C-8 FOR FURTHER DETAIL THIS AREA

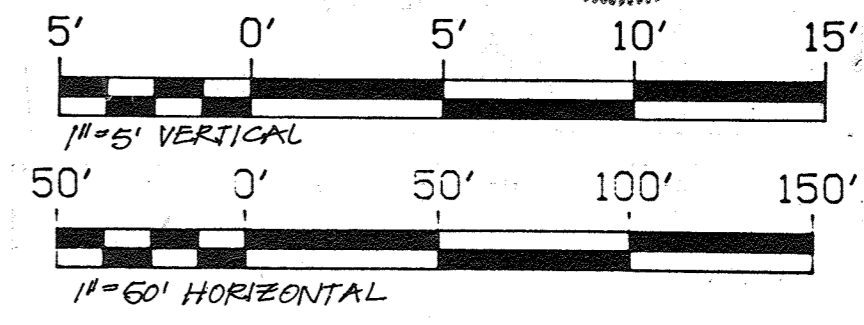
NOTE: SIGHT DISTANCE EASEMENT NOT REQUIRED  
 SIGHT LINES FALL WITHIN EXISTING AND/OR  
 FUTURE RIGHT OF WAY.



**PLAN**  
 SCALE: 1"=50'



**PROFILE**  
 SCALE: HORIZ. 1"=80'  
 VERT. 1"=5'



DD	REVISION	HC 204 Sub.	REVISION
CD	REVISION	Final HC-Sub.	REVISION
PKM/ML	REVISION	04-15-91	REVISION
ISSUE	REV	02-15-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
*Joseph M. Boyd* 4/25/91  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Joseph M. Boyd* 4/29/91  
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Russell Foss Smith* 4/25/91  
 DIRECTOR (Acting) DATE

CHIEF BUREAU OF ENGINEERING

**Eddy & Eckhardt Architects**  
 9912 Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-759-5500 Fax 759-5019

CIVIL ENGINEER  
 CAD-COM  
 3025 Hamaker Court, Suite 201 • Fairfax, Virginia 22031  
 703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
 SWSL  
 209 Elden Street, #11 • Herndon, Virginia 22070  
 703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
 Glassman Associates  
 1680 Spring Hill Road, Suite 300 • Vienna, Virginia 22180  
 703-790-1250 Fax 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
 1992 SOUTH EASTERN ELEMENTARY SCHOOL  
 Howard County, Maryland

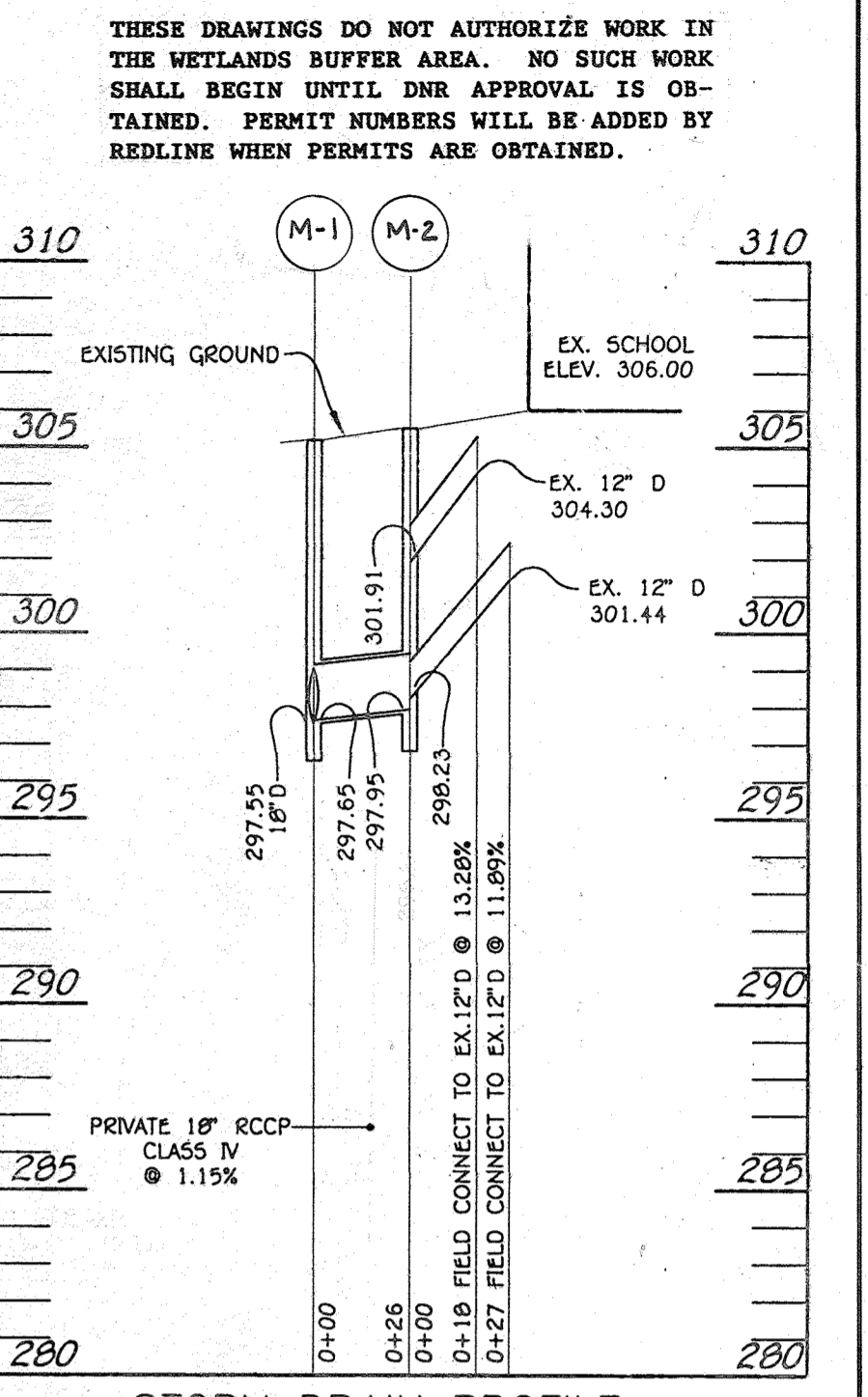
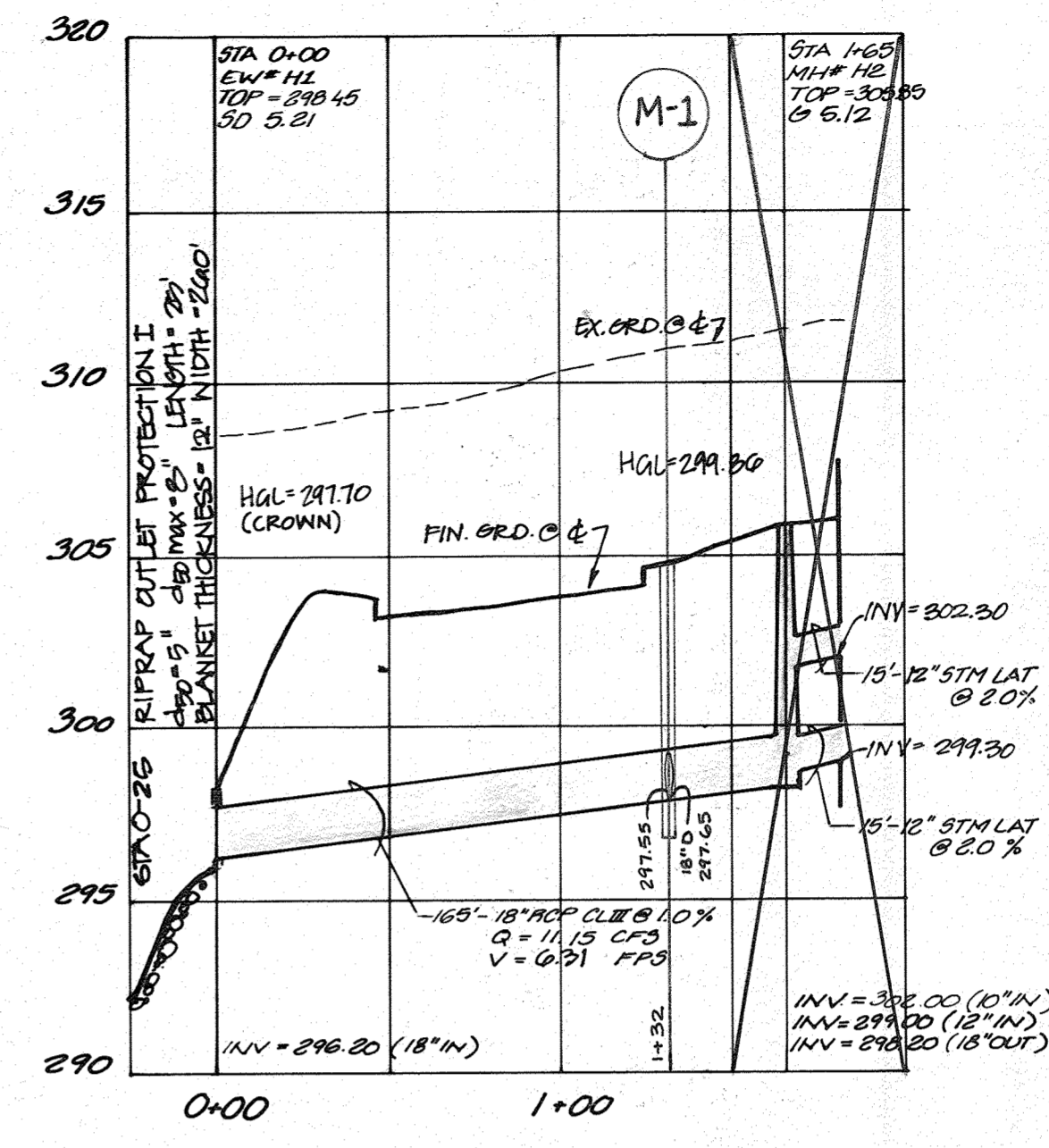
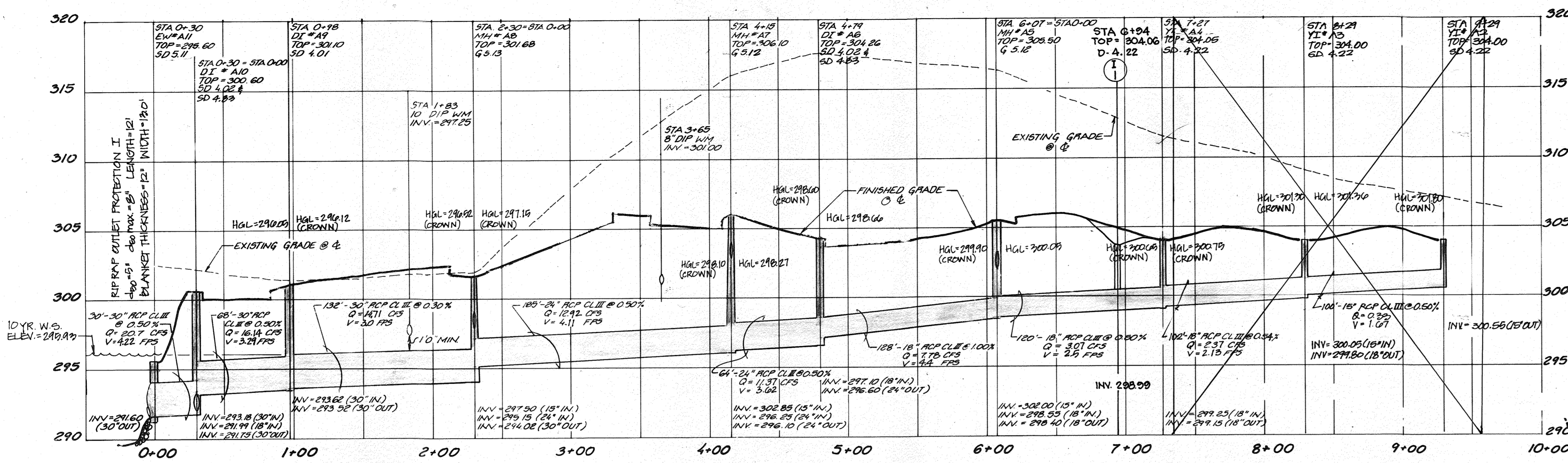
Howard County Board of Education  
 101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
 Tax Map 47  
 LIBEC: 2276 FOLIO: 0282  
 Water Code: 003 Sewer Code: 6100000

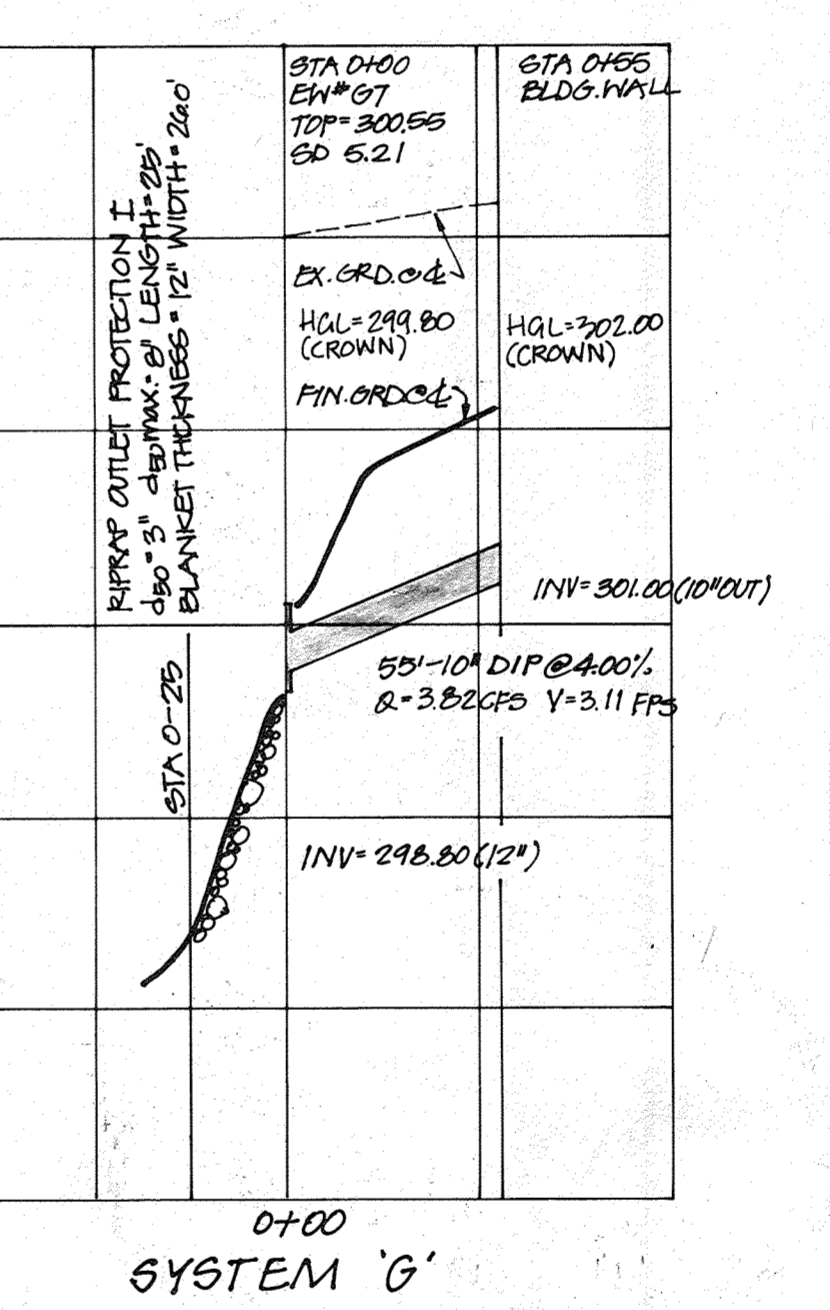
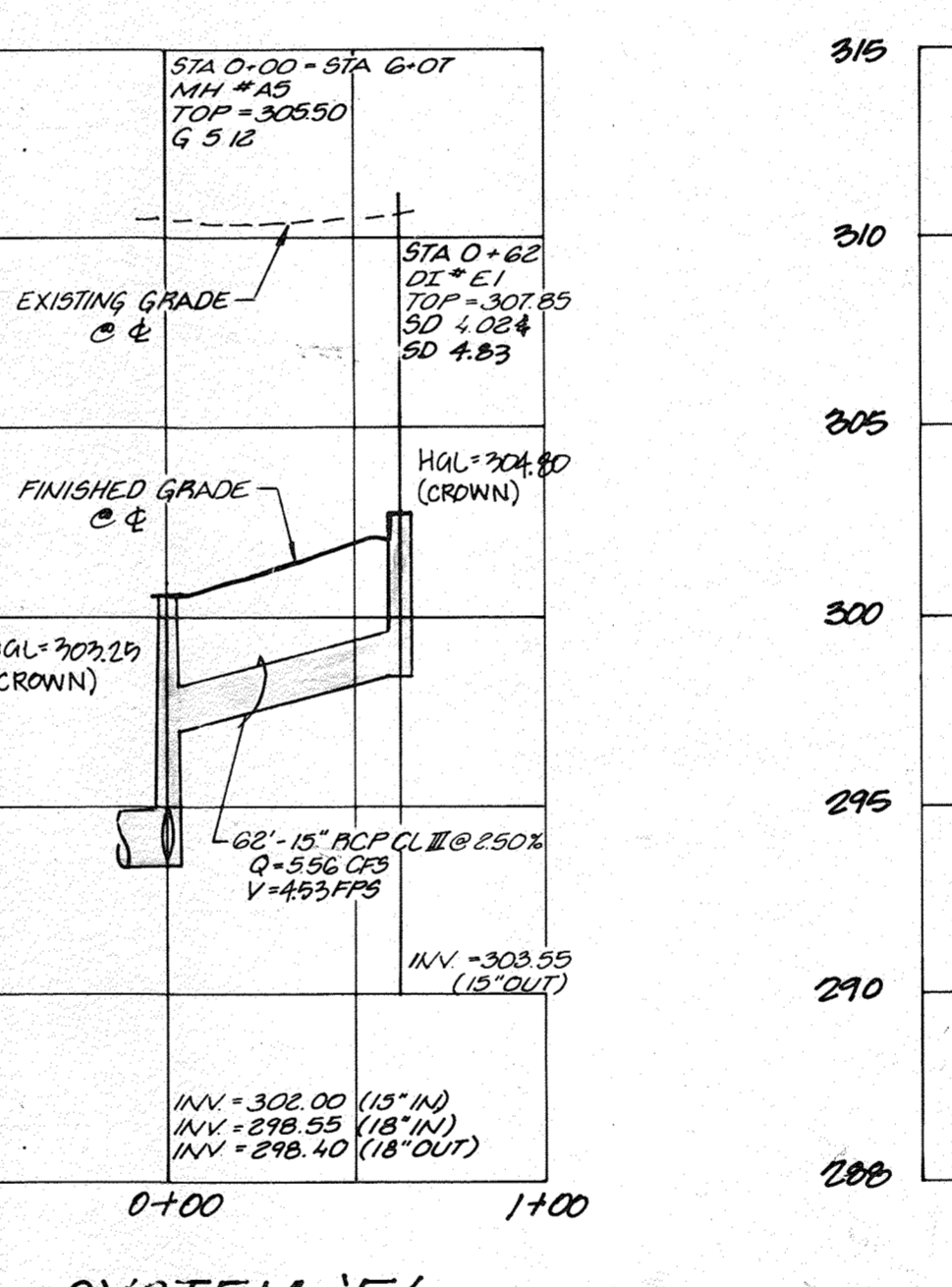
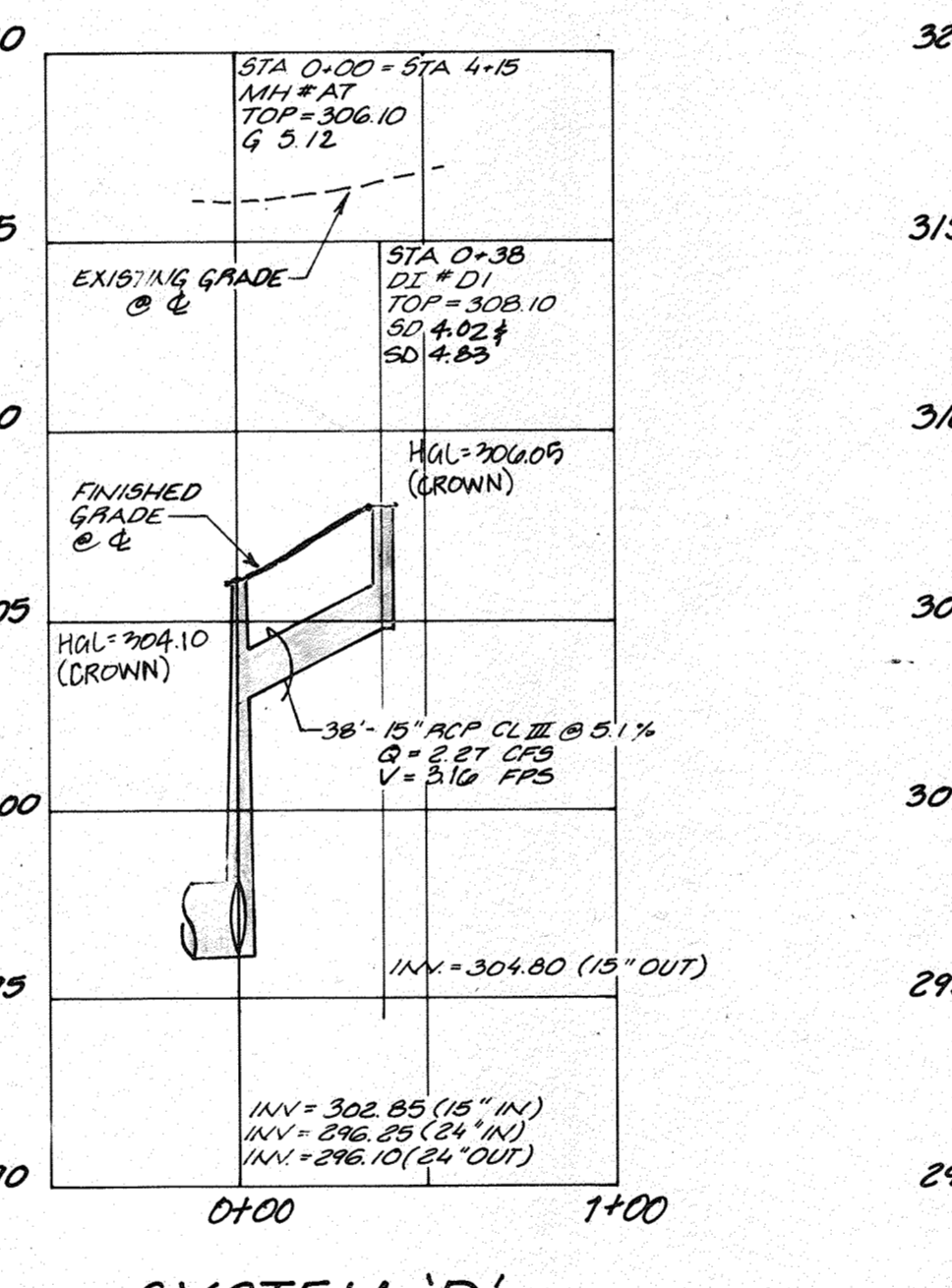
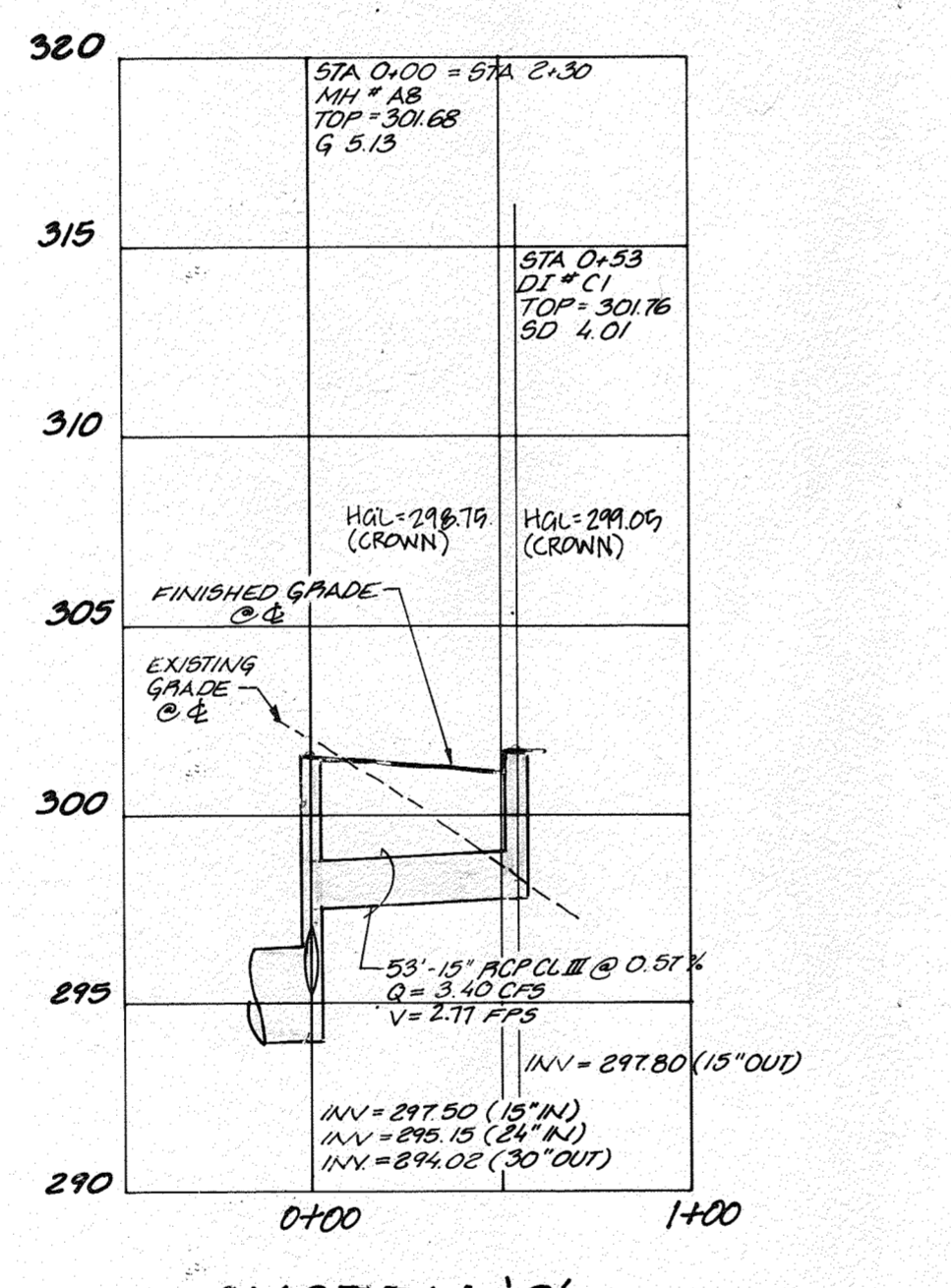
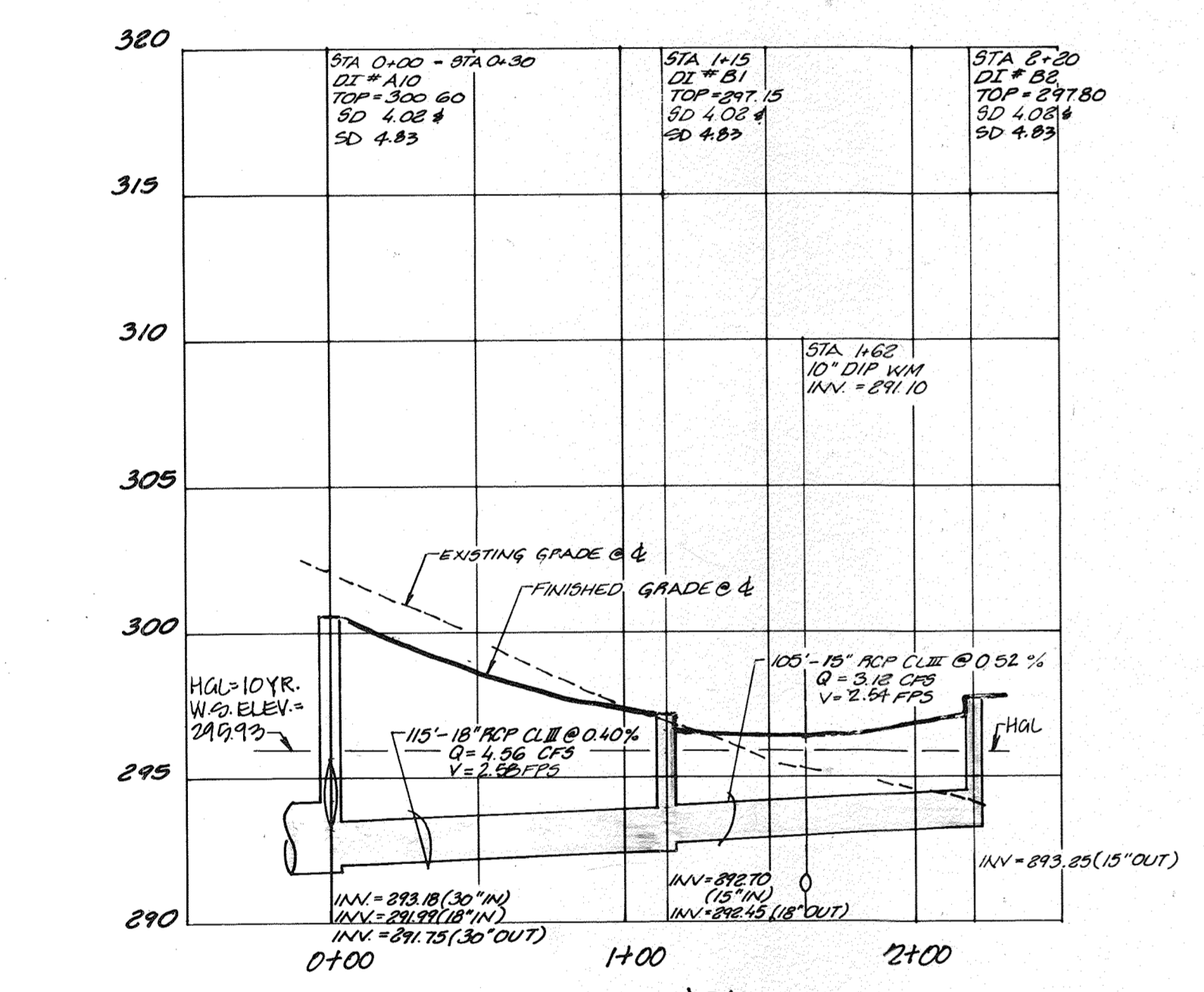
SDP-91-80

Architect's Project No. 89181 C&E Project No. 054.0180

These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.



NOTE: RIPRAP OUTFALL PROTECTION TO BE IN ACCORDANCE WITH MARYLAND STANDARDS & SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL POP-1, II OR III AS INDICATED.



NO	REVISIONS	DATE
2	REVISED STORM DRAIN PROFILE 'H' & ADDED PROFILE 1/18/20	1/18/20
1	Revised storm drain profile	10-19-07
NO	REVISIONS	DATE

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

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

**Eddy & Eckhardt Architects**  
9912 C Georgetown Park • Box 477 • Great Falls, Virginia 22066 • 703.759.5500 • Fax 759.5519

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 • Fairfax, Virginia 22031  
703.280.2585 Fax 703.280.4640

STRUCTURAL ENGINEER  
SWSG  
209 Elden Street • 301 • Herndon, Virginia 22070  
703.471.6803 Fax 703.742.3975

MECHANICAL/ELECTRICAL ENGINEER  
Glassman Associates  
1600 Spring Hill Road, Suite 300 • Vienna, Virginia 22180  
703.790.1250 Fax 703.790.1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

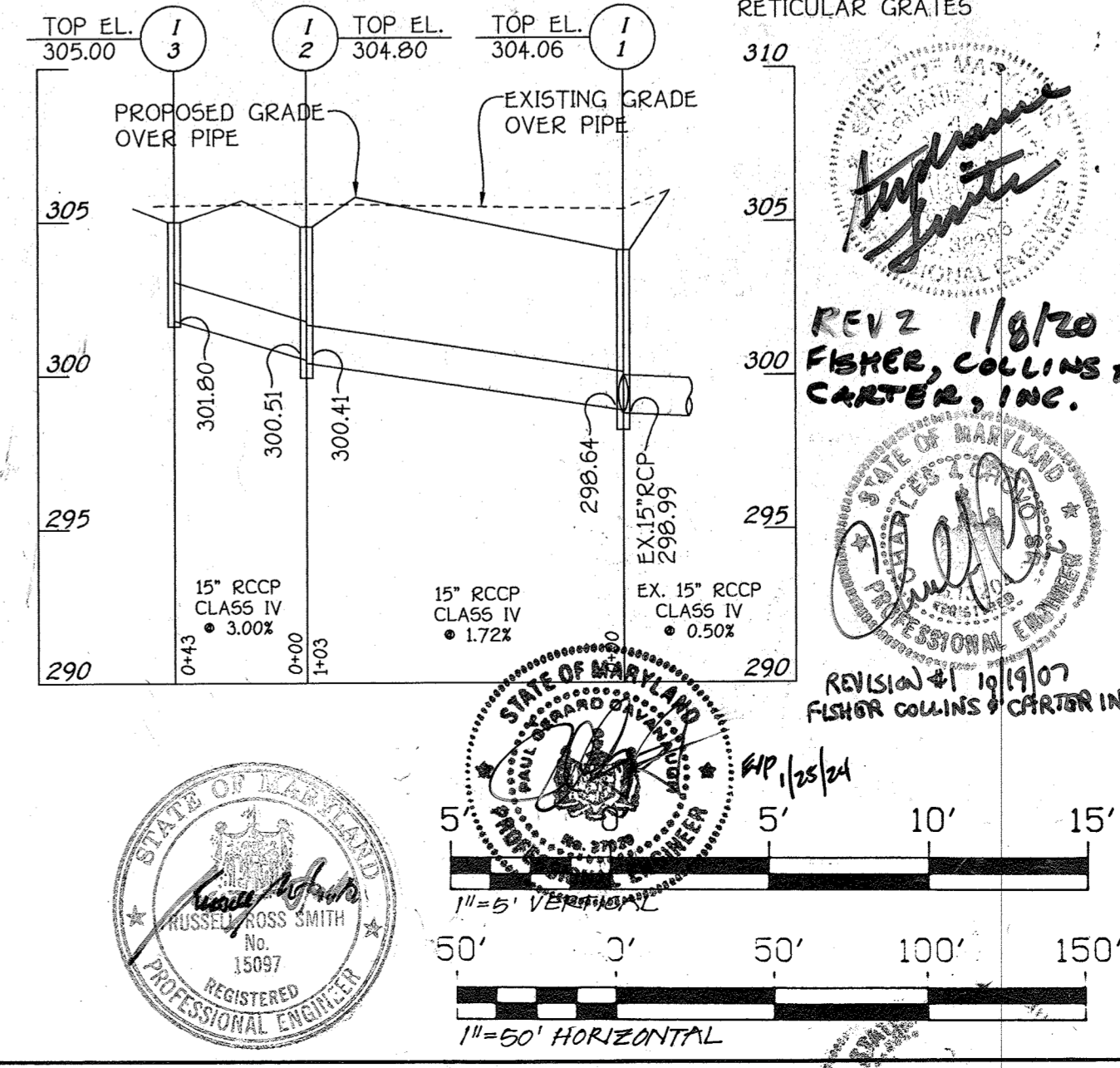
Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIPER: 2276 FOLIO: 0232  
Water Code: 003 Sewer Code: 0100000  
SDP-91-20

Architect's Project No. 89181 CAD Project No. 081.020

**Storm Drain Profiles C-10**  
and Computations  
SDP-91-20

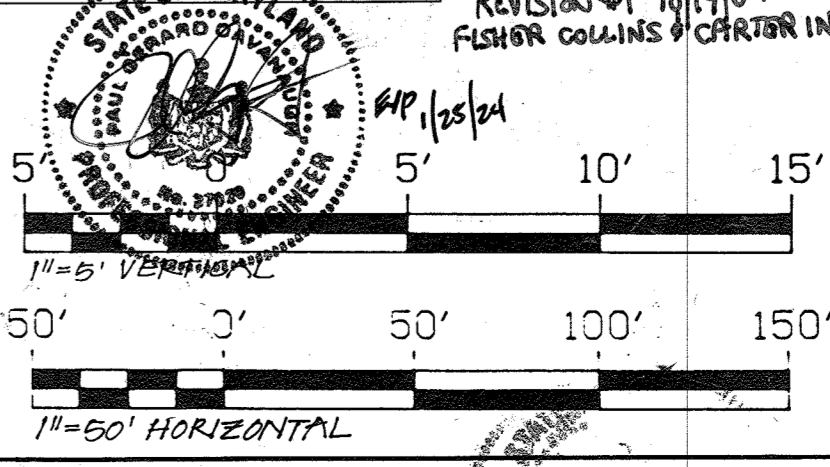
HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS										STORM WATER DESIGN SHEET															
A. Conduit					B. Drainage Area & Runoff					C. Full Flow					D. Structure Losses					E. APPLICABLE					Remarks
Reach (1)	Street (2)	Type (3)	Size (4)	Length (5)	Area (6)	C (7)	Q (8)	H (9)	Loss (10)	Loss (11)	Loss (12)	Loss (13)	Loss (14)	Loss (15)	Loss (16)	Loss (17)	Loss (18)	Loss (19)	Loss (20)	In (21)	Out (22)	Remarks (23)			
A-1	304.00	RCP	18"	100'	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	304.00	304.00	CRWN			
A-2	304.00	RCP	18"	100'	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	304.00	304.00	CRWN			

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS										STORM WATER DESIGN SHEET															
A. Conduit					B. Drainage Area & Runoff					C. Full Flow					D. Structure Losses					E. APPLICABLE					Remarks
Reach (1)	Street (2)	Type (3)	Size (4)	Length (5)	Area (6)	C (7)	Q (8)	H (9)	Loss (10)	Loss (11)	Loss (12)	Loss (13)	Loss (14)	Loss (15)	Loss (16)	Loss (17)	Loss (18)	Loss (19)	Loss (20)	In (21)	Out (22)	Remarks (23)			
A-3	304.00	RCP	18"	100'	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	304.00	304.00	CRWN			

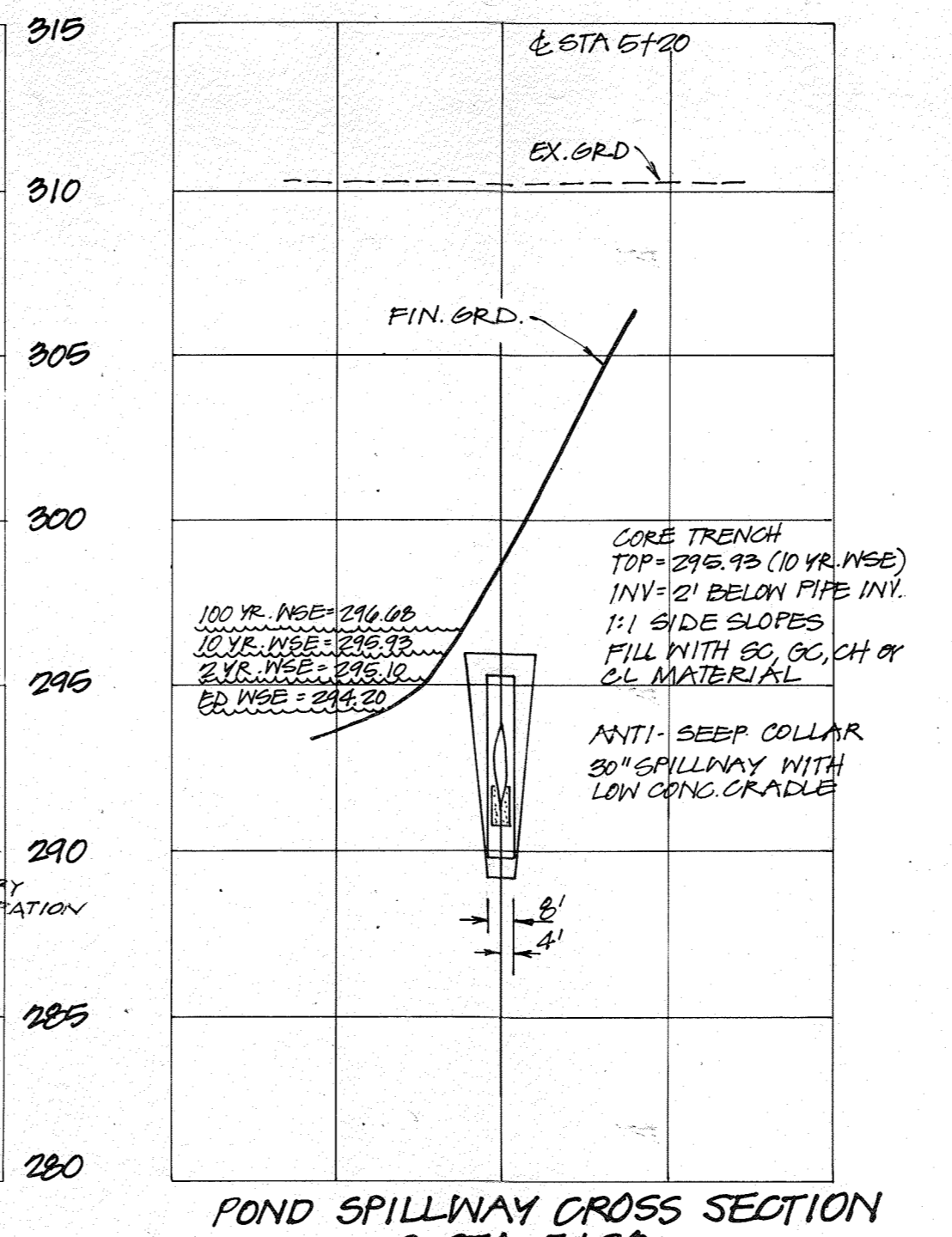
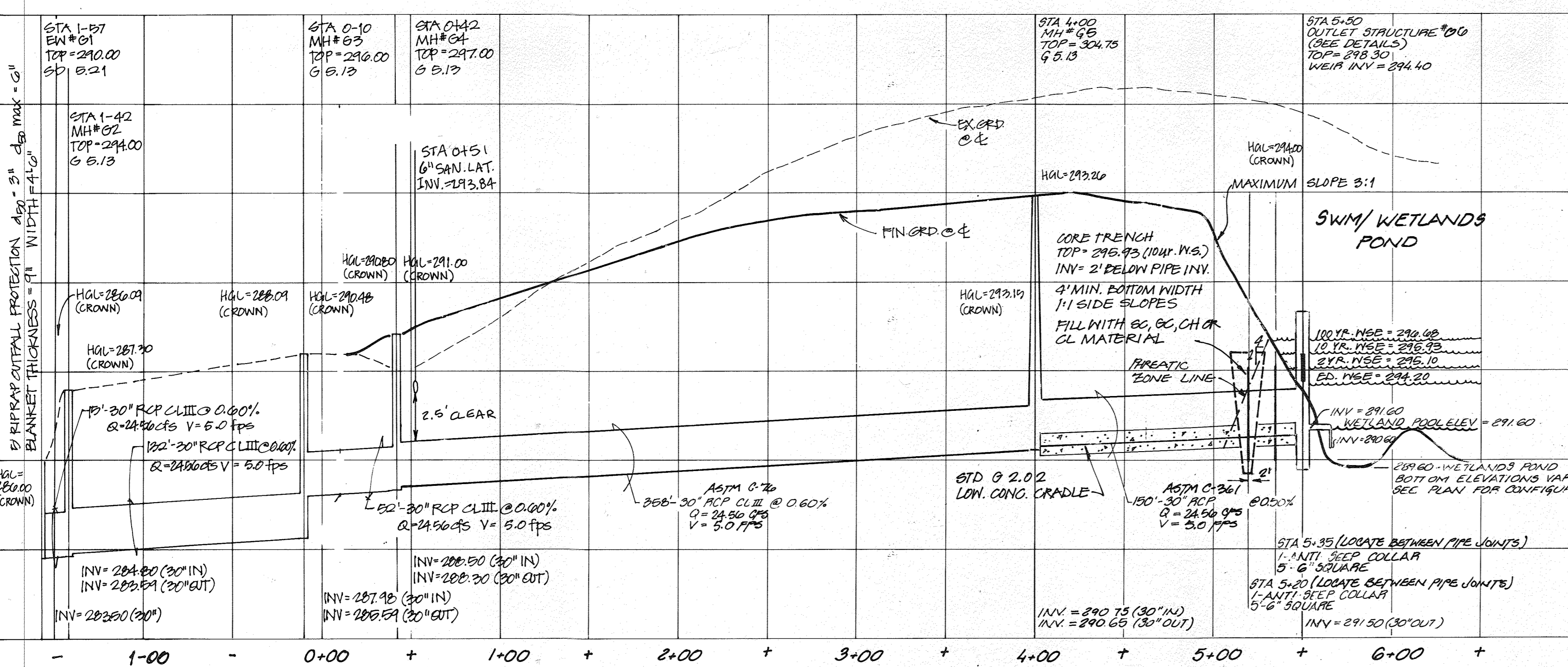


REV 2 1/8/20  
FISHER, COLLINS & CARTER, INC.

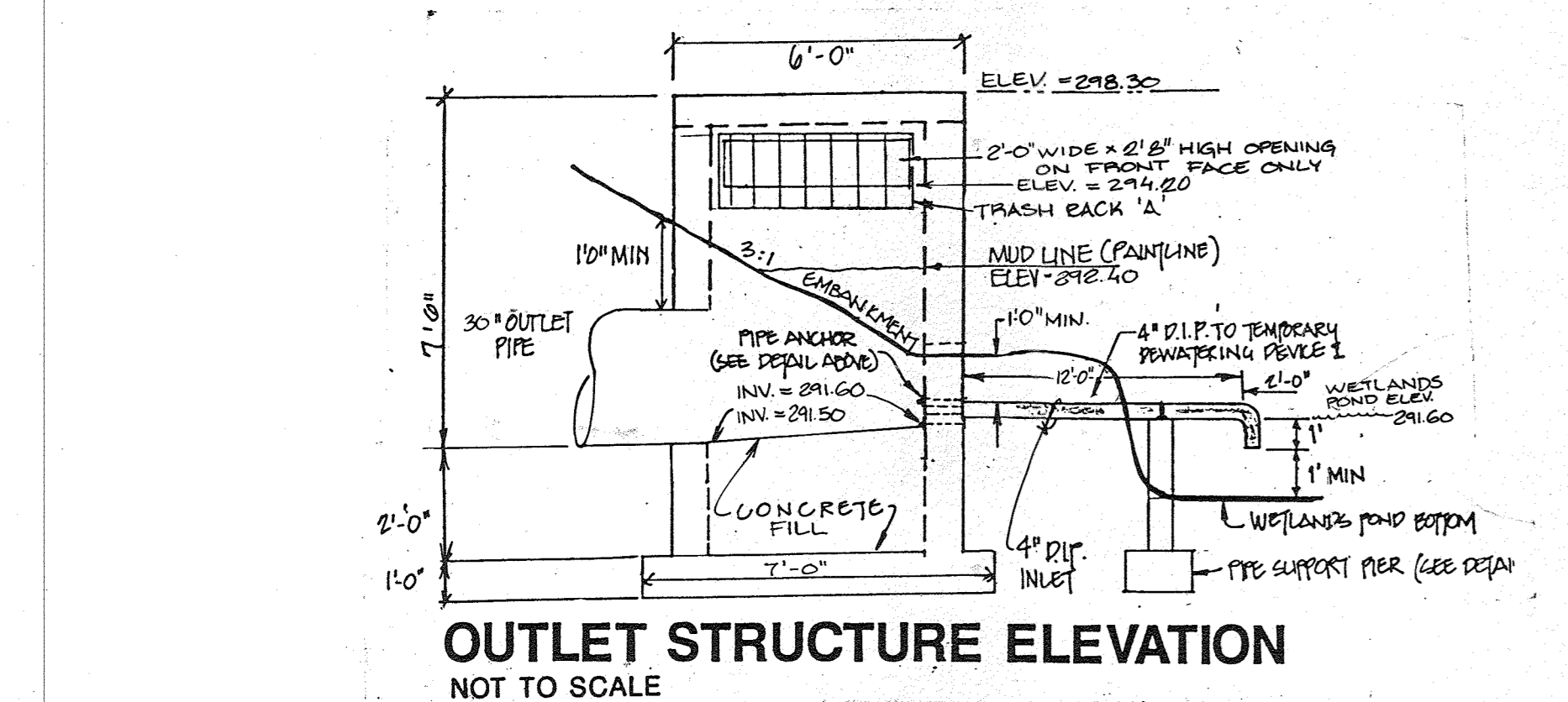
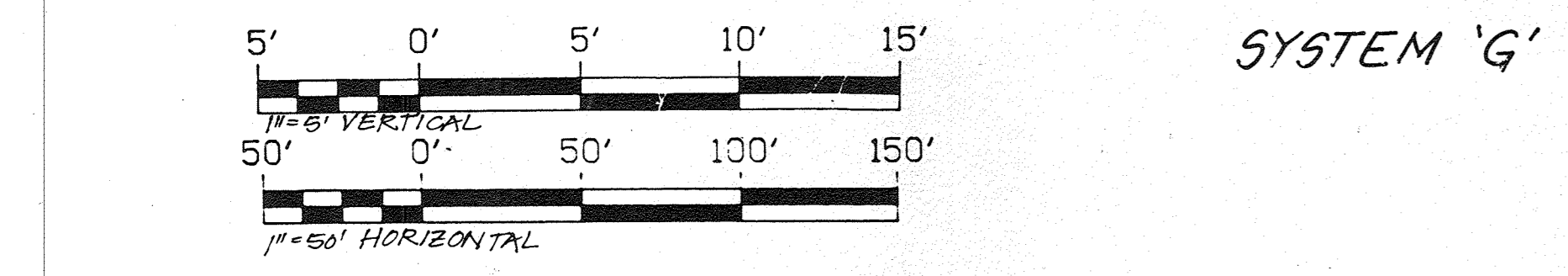
REVISED 10/19/07  
FISHER COLLINS & CARTER, INC.



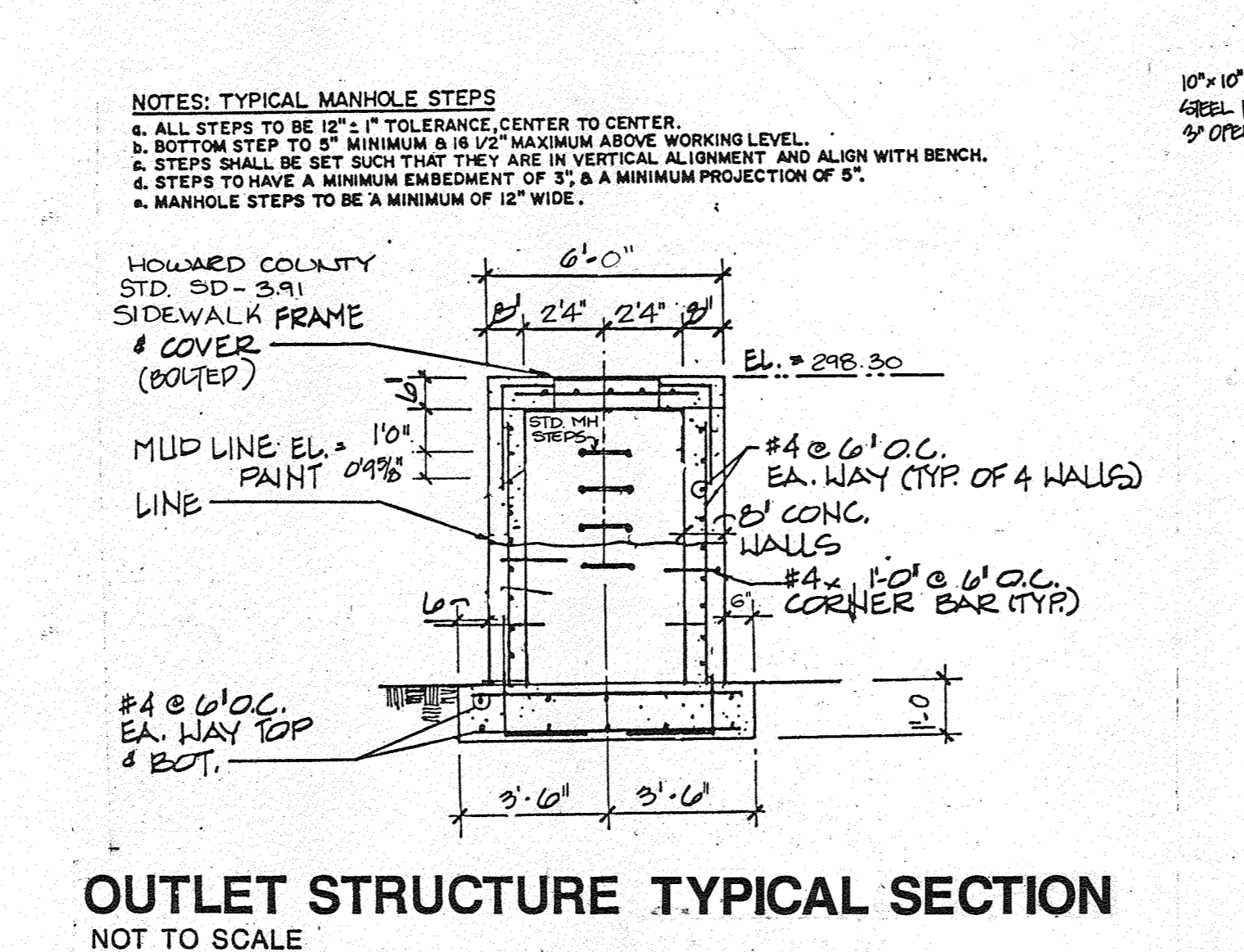
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and permission of the architect. Reproduction is prohibited.



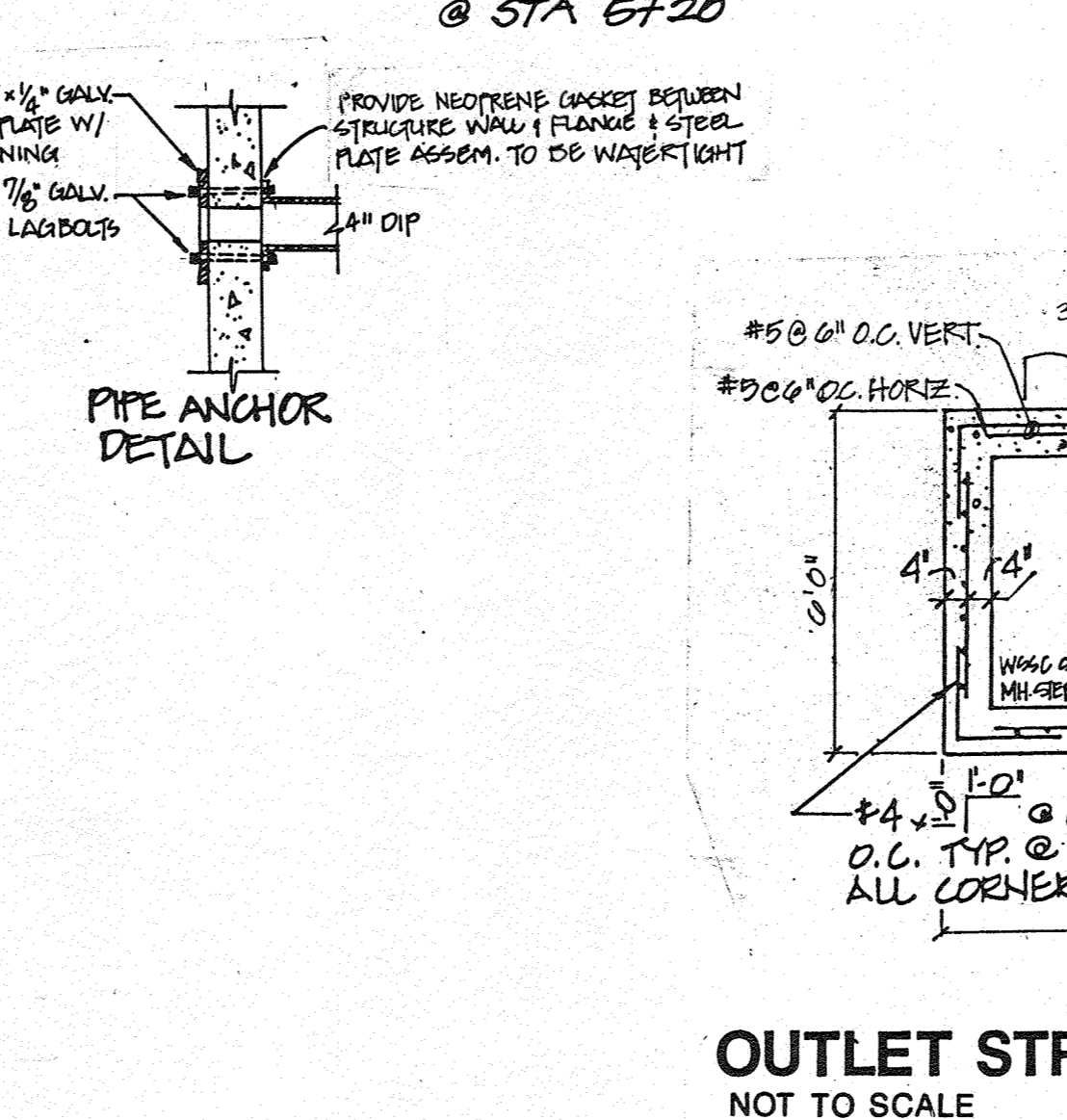
SOIL BORING LOG showing site location (GORMAN ROAD, HOWARD COUNTY, MD), surface elevation (308.00), and soil profile data from 0 to 30 feet depth.



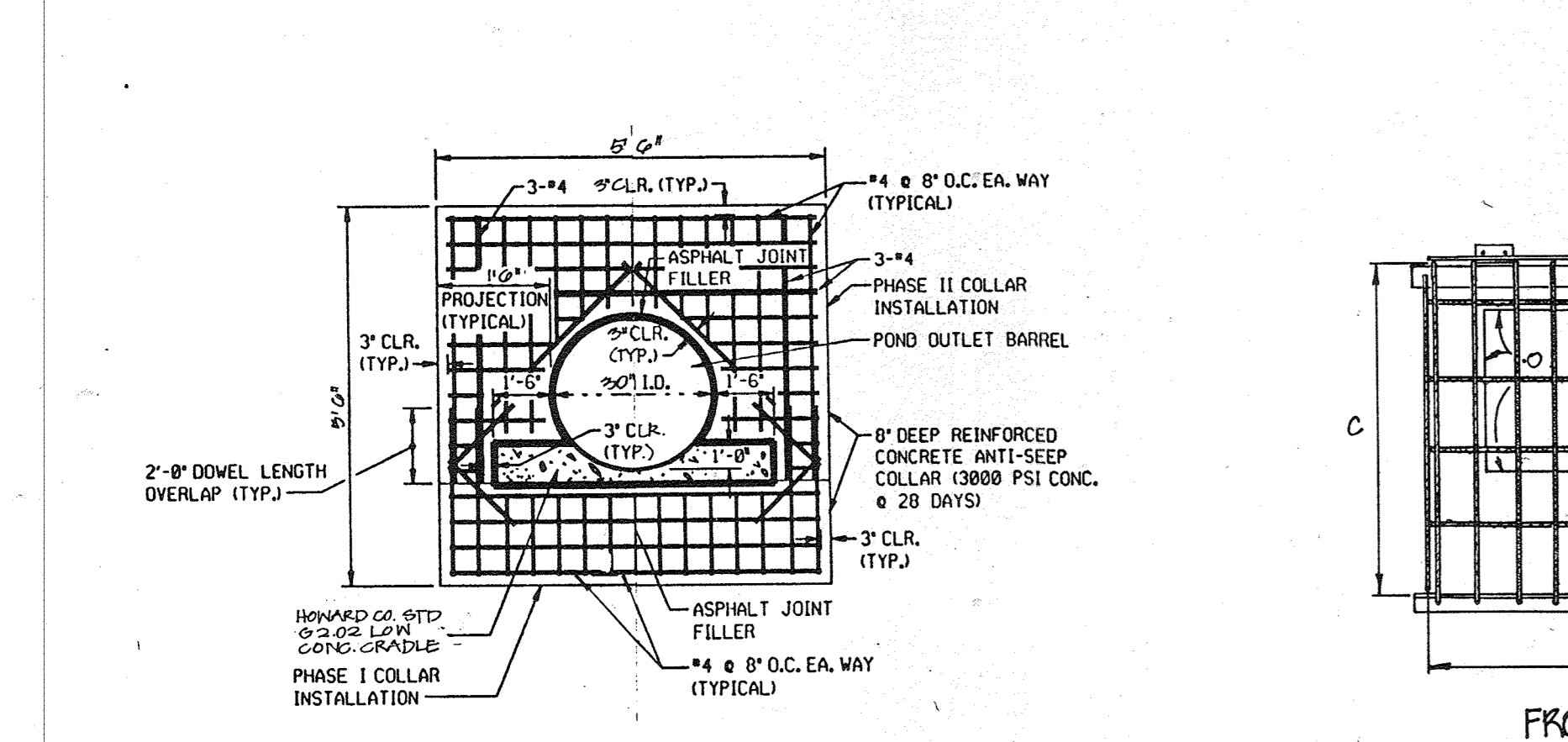
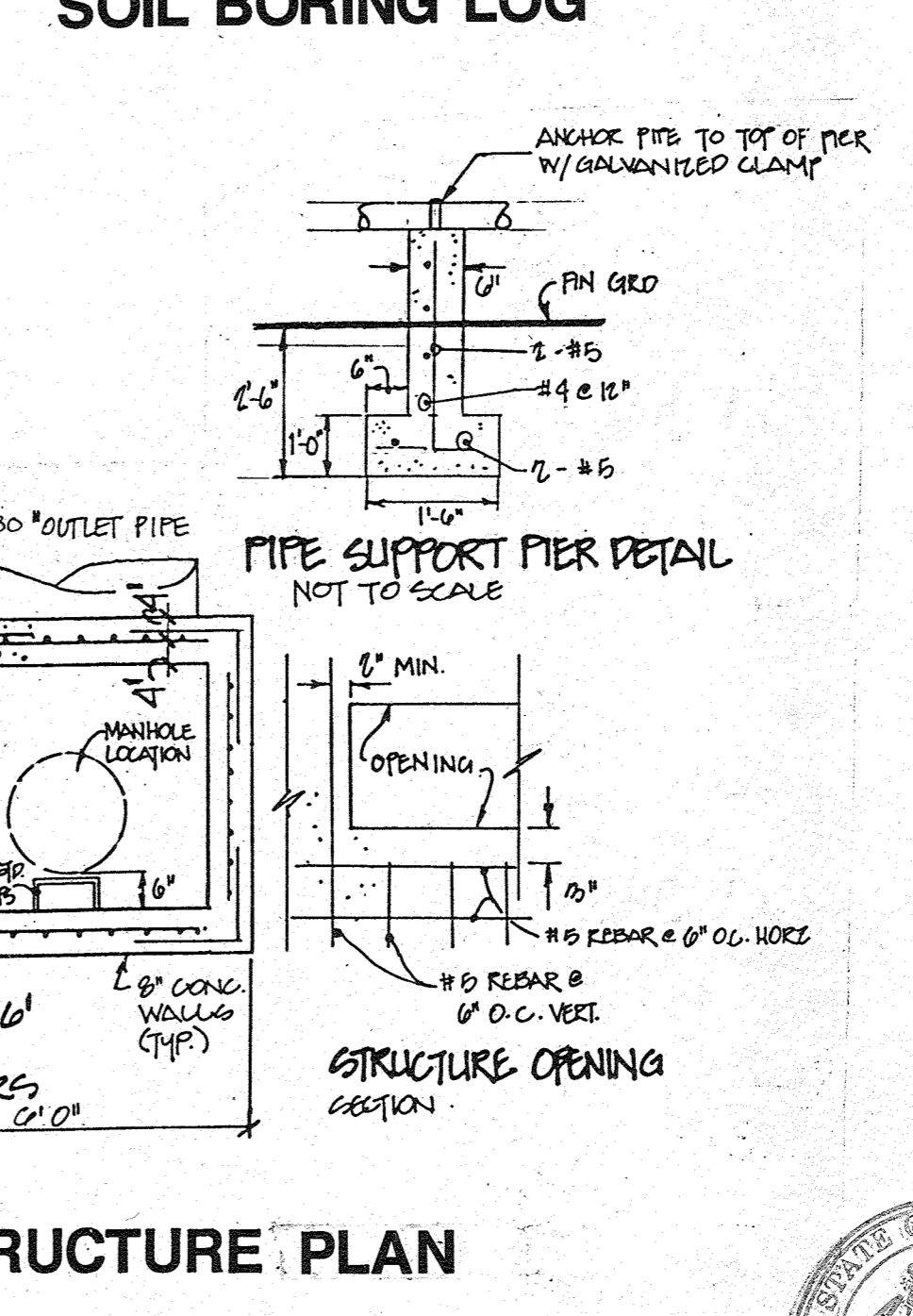
OUTLET STRUCTURE ELEVATION NOT TO SCALE



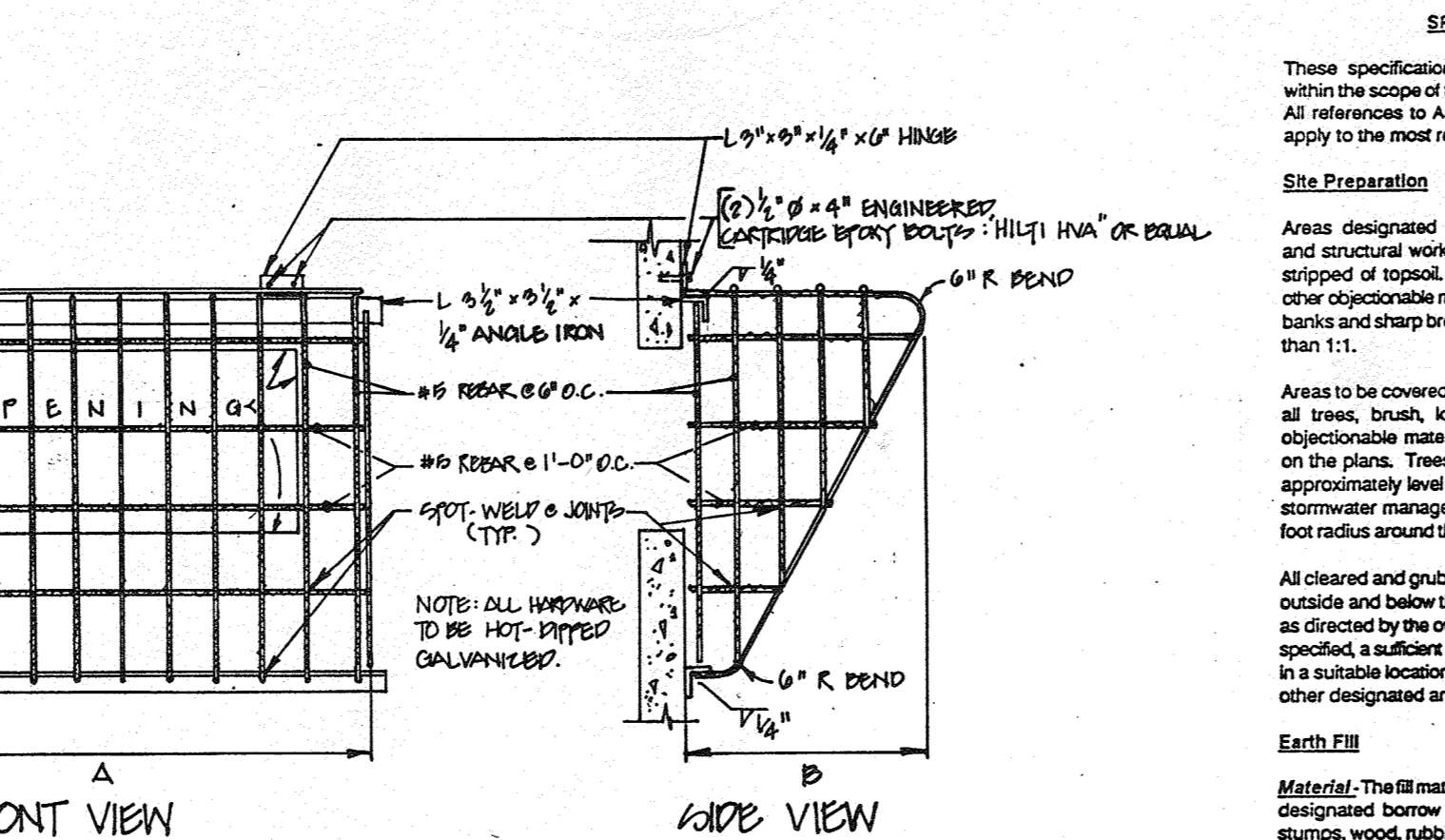
OUTLET STRUCTURE TYPICAL SECTION NOT TO SCALE



OUTLET STRUCTURE PLAN NOT TO SCALE



ANTI-SEEP COLLAR DETAIL NOT TO SCALE



TRASH RACK DETAIL NOT TO SCALE

Table with columns: TRACK NO., WIDTH, AREA OF OPENING, RACK AREA REQ'D, and % PROVIDED.

NOTES: TYPICAL MANHOLE STEPS, HOWARD COUNTY STD. SD - 3.91, SIDEWALK FRAME & COVER (BOLTED), MUD LINE EL. = 10" PAINT 0.49% LINE.

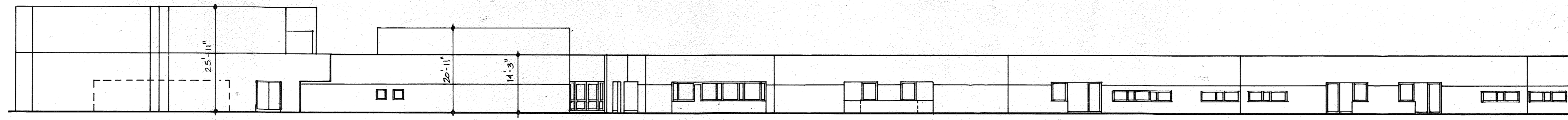
SPECIFICATIONS: These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Professional stamps for Eddy & Eckhardt Architects, Howard County Health Department, and Forest Ridge Elementary School. Includes project title 'SWM Profiles Details and Specifications' and drawing number 'C-11'.

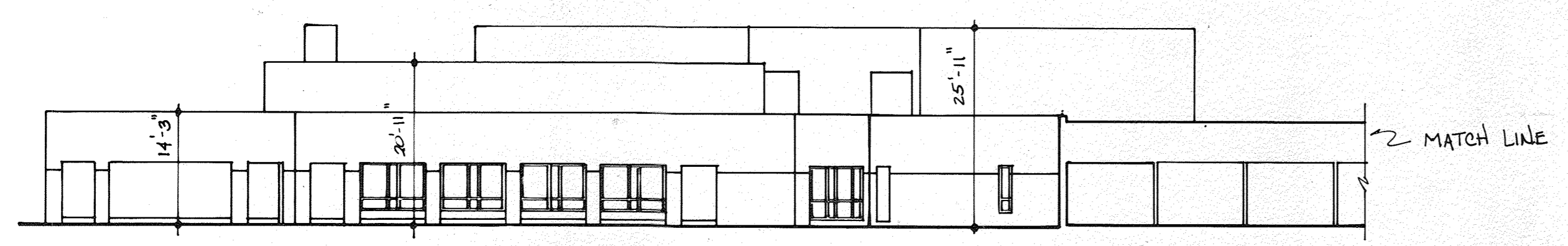
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

REVISED	NO. 2ND SUP.	REVISION
REVISED	03-15-91	REVISION
REVISED	FINAL 11-5-91	REVISION
REVISED	04-12-91	REVISION
ISSUE	SDP 03-13-91	REVISION

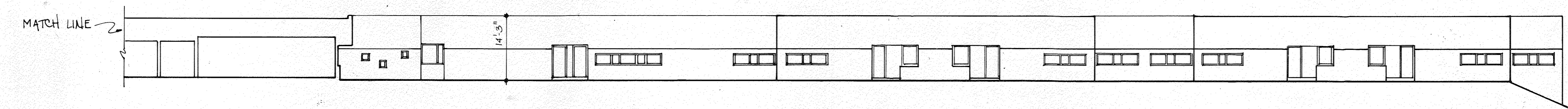
THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.



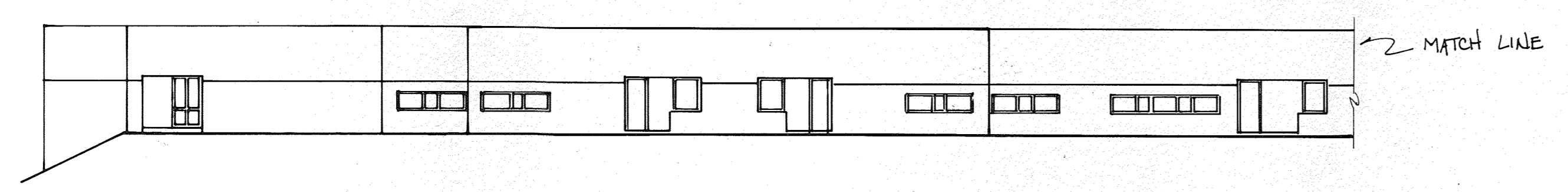
WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION



**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.**  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Boyd, M.D., P.E.* 4-25-91  
COUNTY HEALTH OFFICER DATE

**APPROVED: HOWARD COUNTY Department of PLANNING & ZONING**  
*James S. Smith* 4/29/91  
DIRECTOR DATE

**APPROVED: HOWARD COUNTY Department of COMMUNITY PLANNING AND LAND DEVELOPMENT**  
*Donna C. Ingle* 4/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

**APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.**  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Russell Ross Smith* 4/25/91  
DIRECTOR (Asst.) DATE

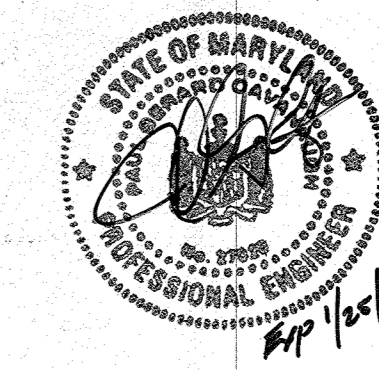
**APPROVED: CHIEF BUREAU OF ENGINEERING**  
*James P. Ryan* 4/25/91  
CHIEF BUREAU OF ENGINEERING DATE

**Eddy & Eckhardt Architects**  
9912-C Georgetown Pike - Box 477 - Great Falls, Virginia 22066 - 703-759-5500 Fax 759-5919

**CIVIL ENGINEER**  
CAD-COR.  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

**STRUCTURAL ENGINEER**  
SWSG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

**MECHANICAL/ELECTRICAL ENGINEER**  
Glasman Associates  
1680 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

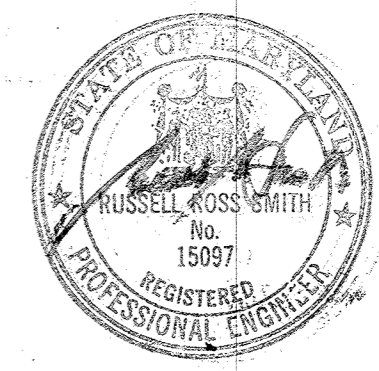


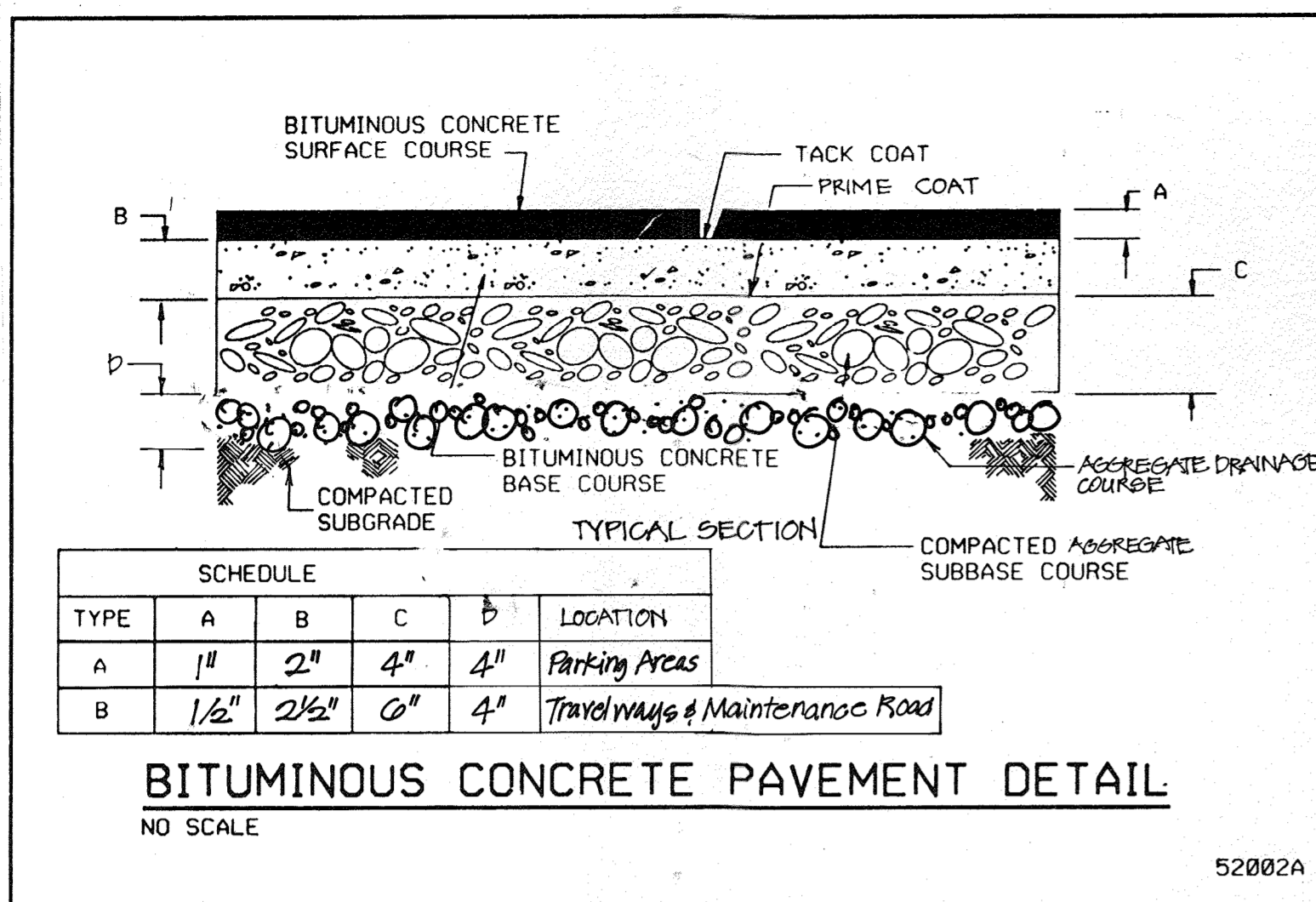
**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

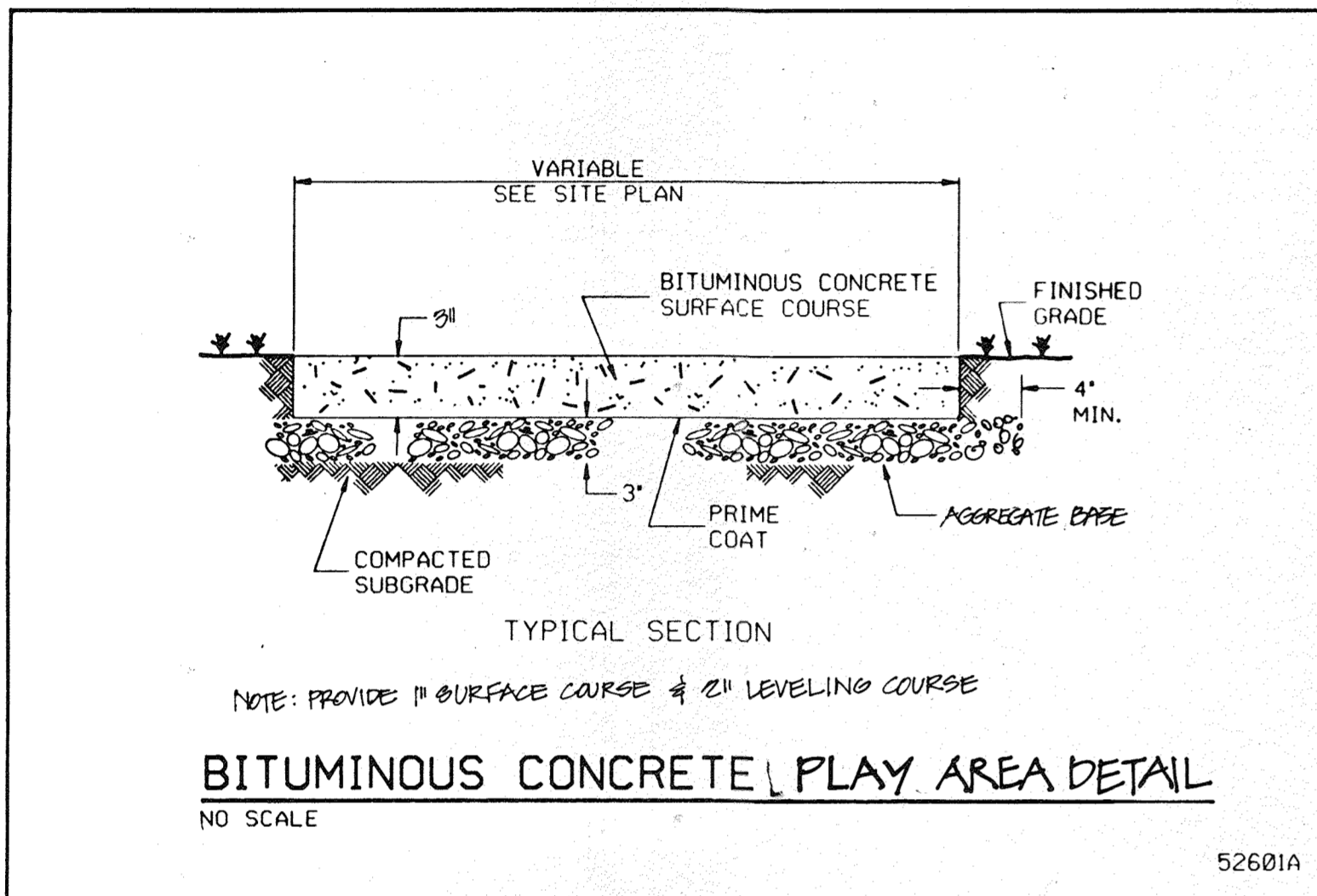
Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIBER: 2276 FOLIO: 0232  
Water Code: 003 Sewer Code: 0100000  
SDP-91-20

Architect's Project No. 89181 CCI Project No. 051.020

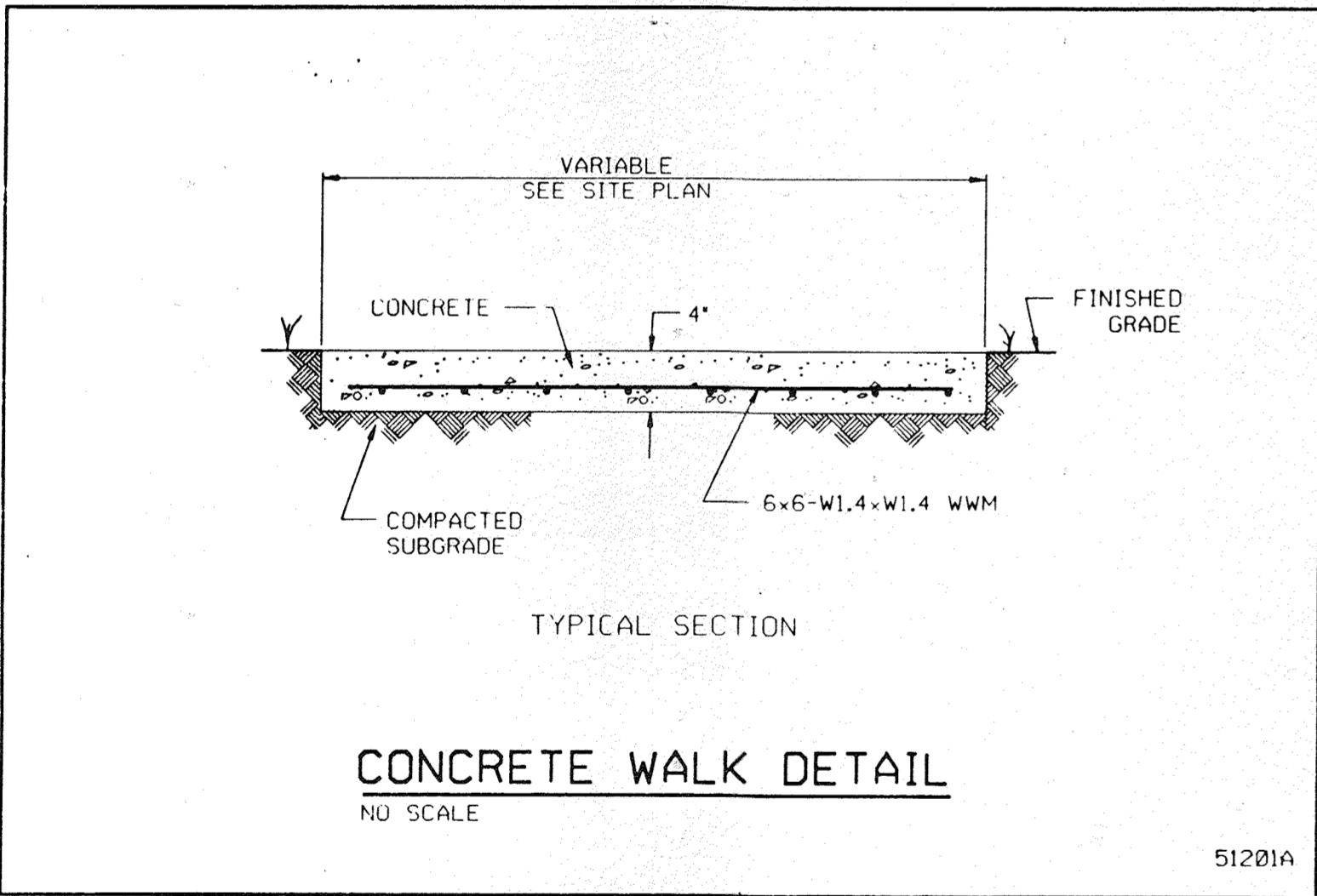




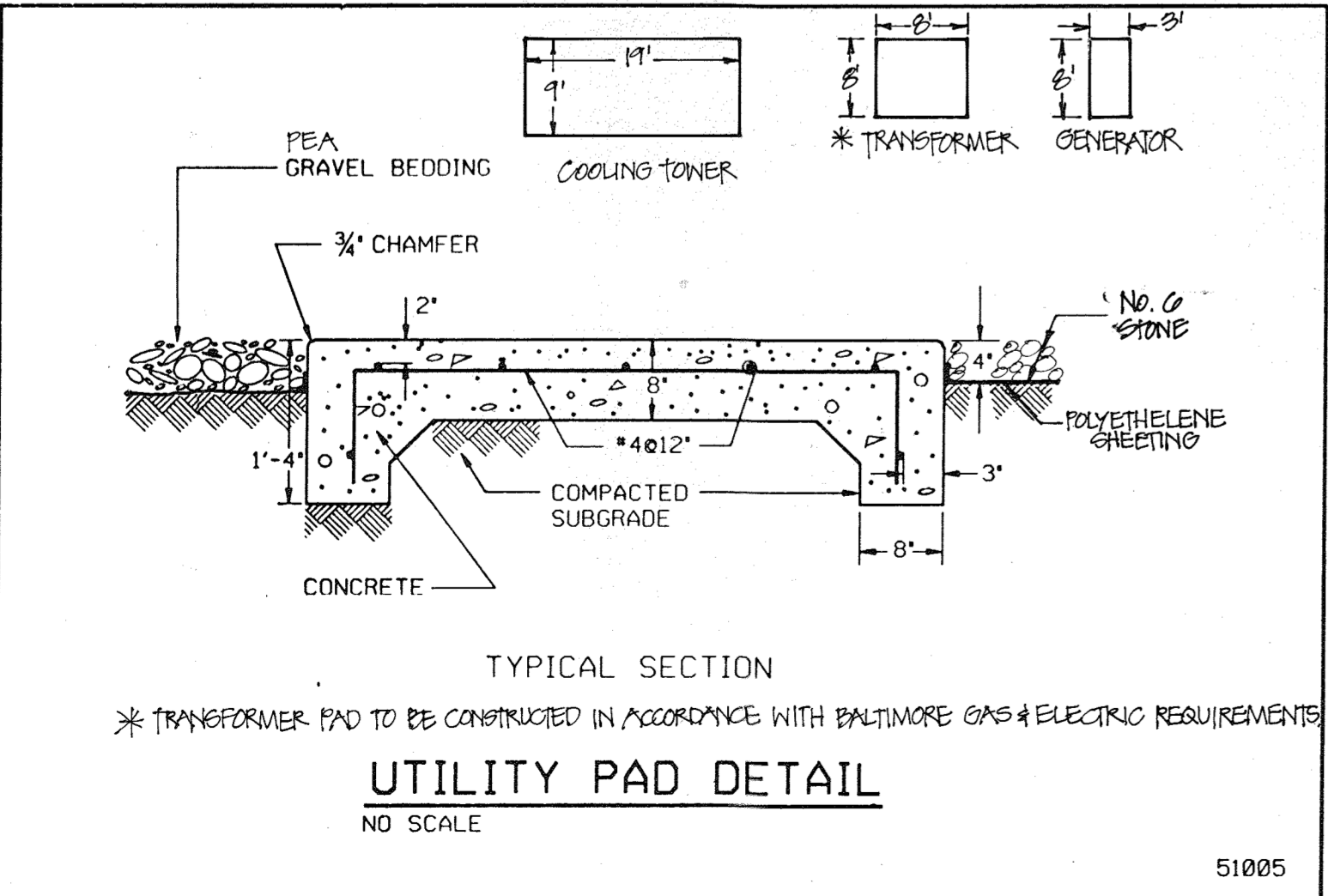
52802A



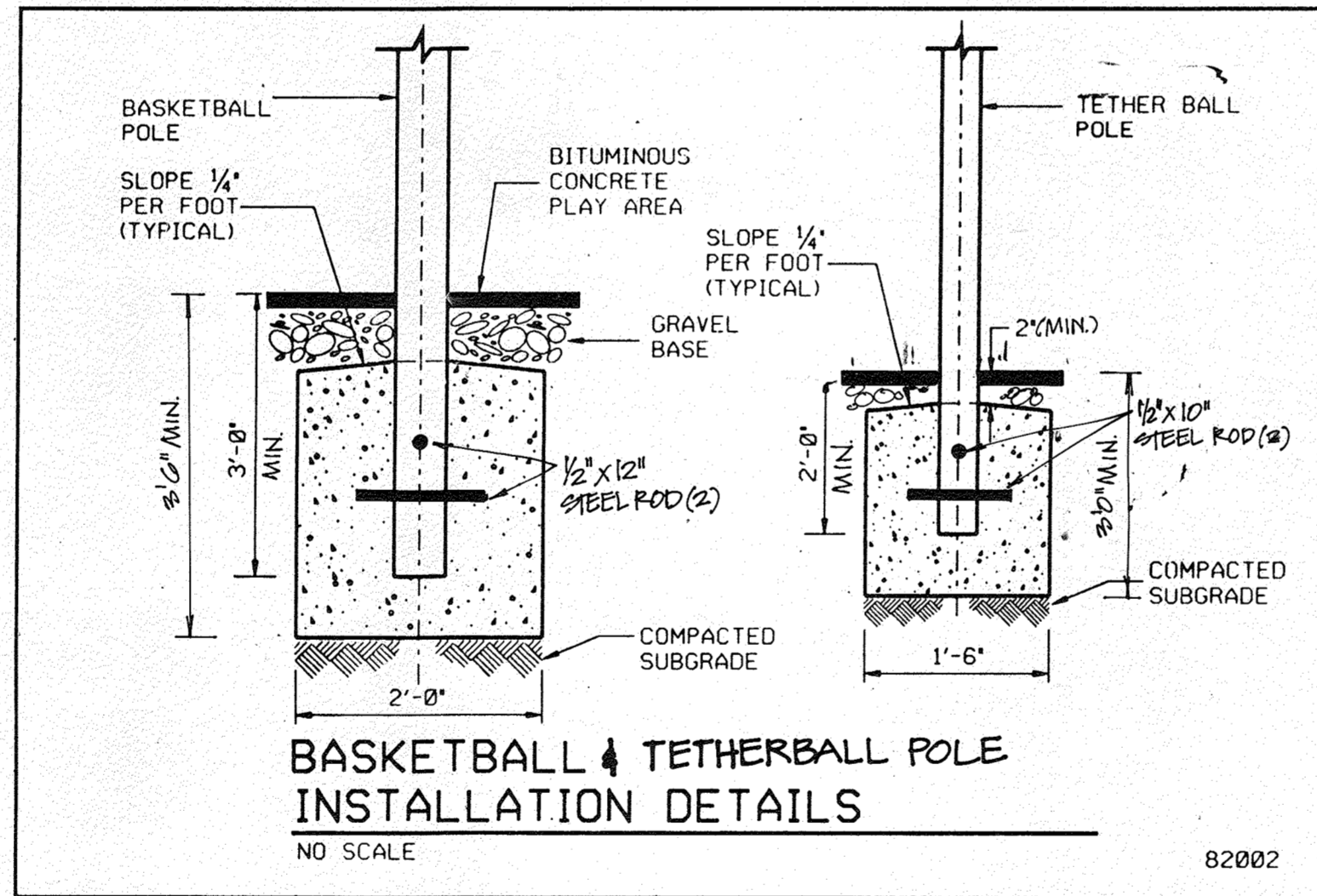
52601A



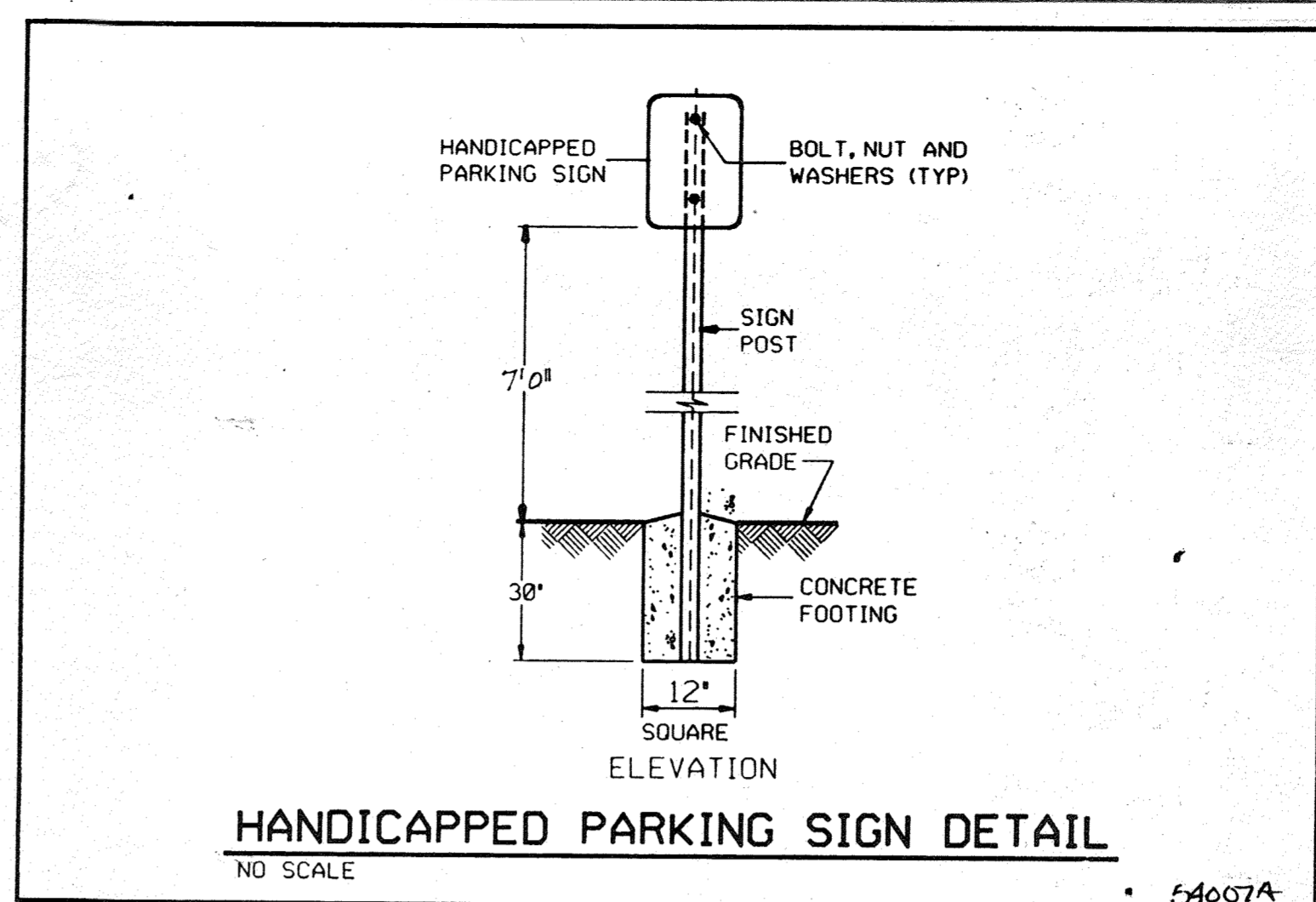
51201A



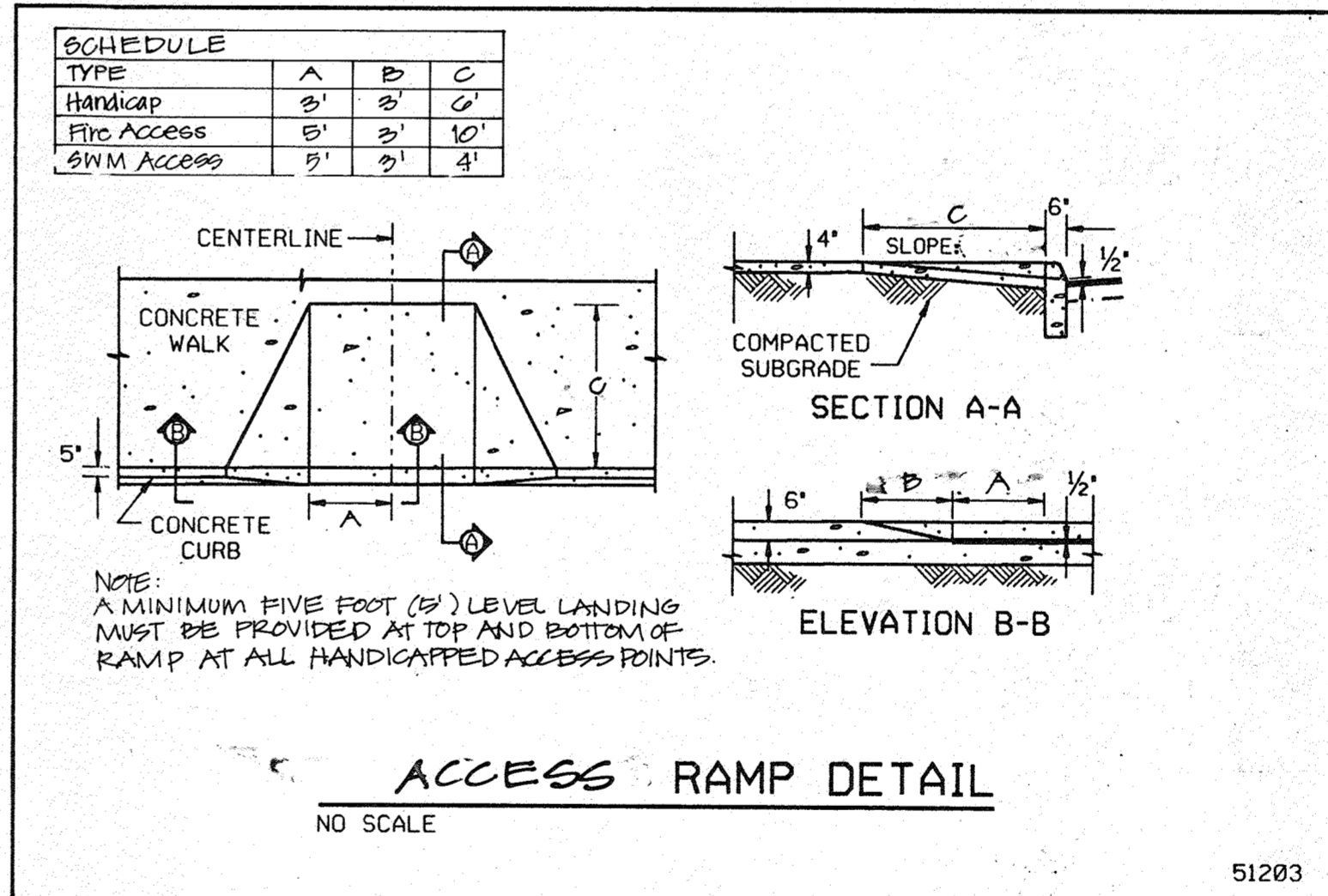
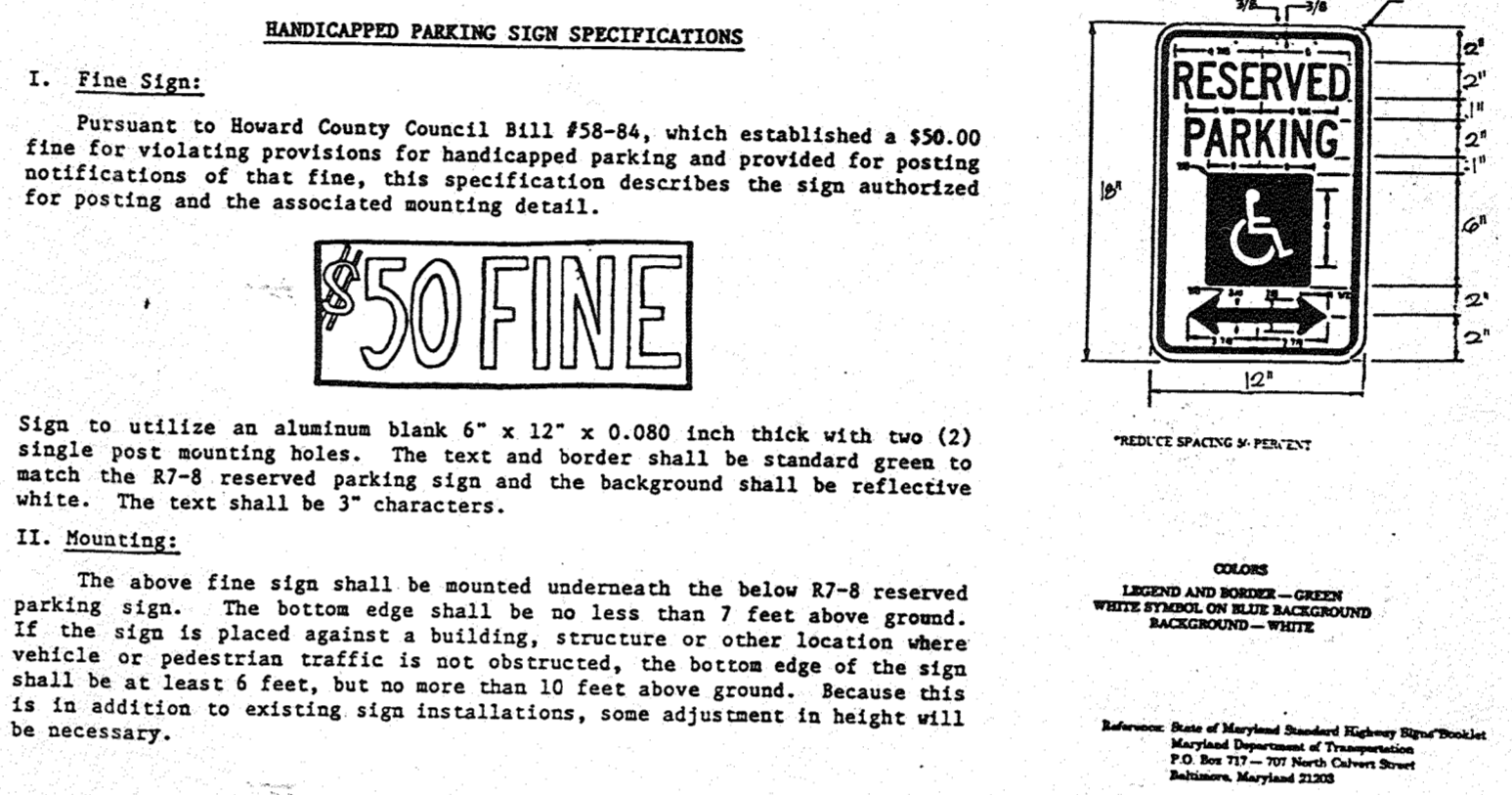
51005



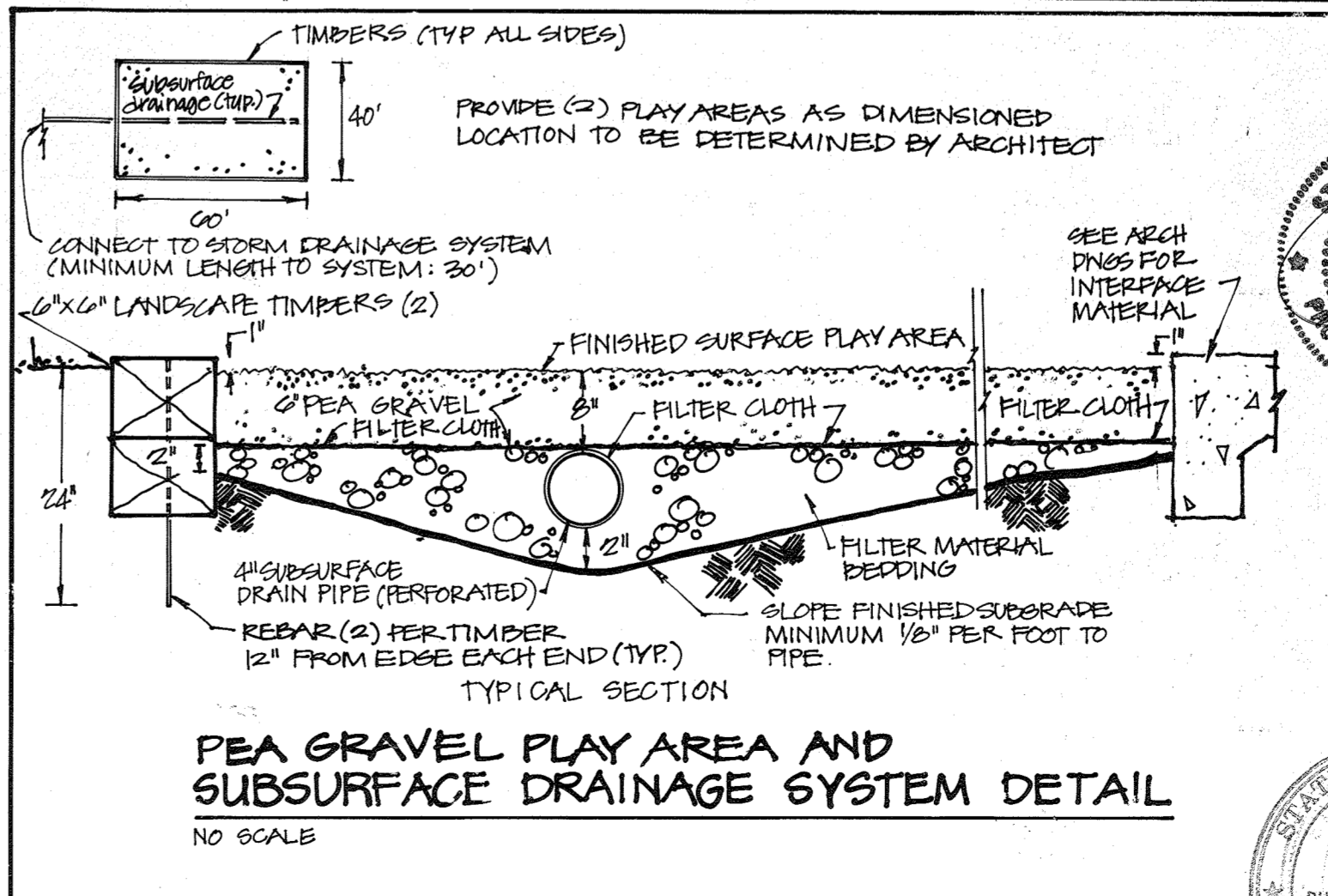
82002



54007A



51203



DATE	REVISION	BY	REVISION
01 DEC 1990	Final H.C. Sub		
05-15-91	H.C. Sub		
05-27-91	ADD No 1 - S/D		
04-12-91			
08-12-91			

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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

County Health Officer: *John M. ...* DATE: 4-25-91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director: *...* DATE: 4/29/91

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

Director (Acting): *...* DATE: 4/25/91

CHIEF BUREAU OF ENGINEERING

**Eddy & Eckhardt Architects**  
9912 C Georgetown Pike - Box 477 - Great Falls, Virginia 22066 - 703-759-5500 Fax 759-5519

CIVIL ENGINEER  
CAD-COM  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-1640

STRUCTURAL ENGINEER  
SWS  
209 Eden Street, Suite 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glasman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTH ASTER ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
Water Code: 003  
Sewer Code: 0100000  
Sewer Code: 0100000  
GDP-91-80

Architect's Project No. 89181  
G.E. Project No. 061-0100

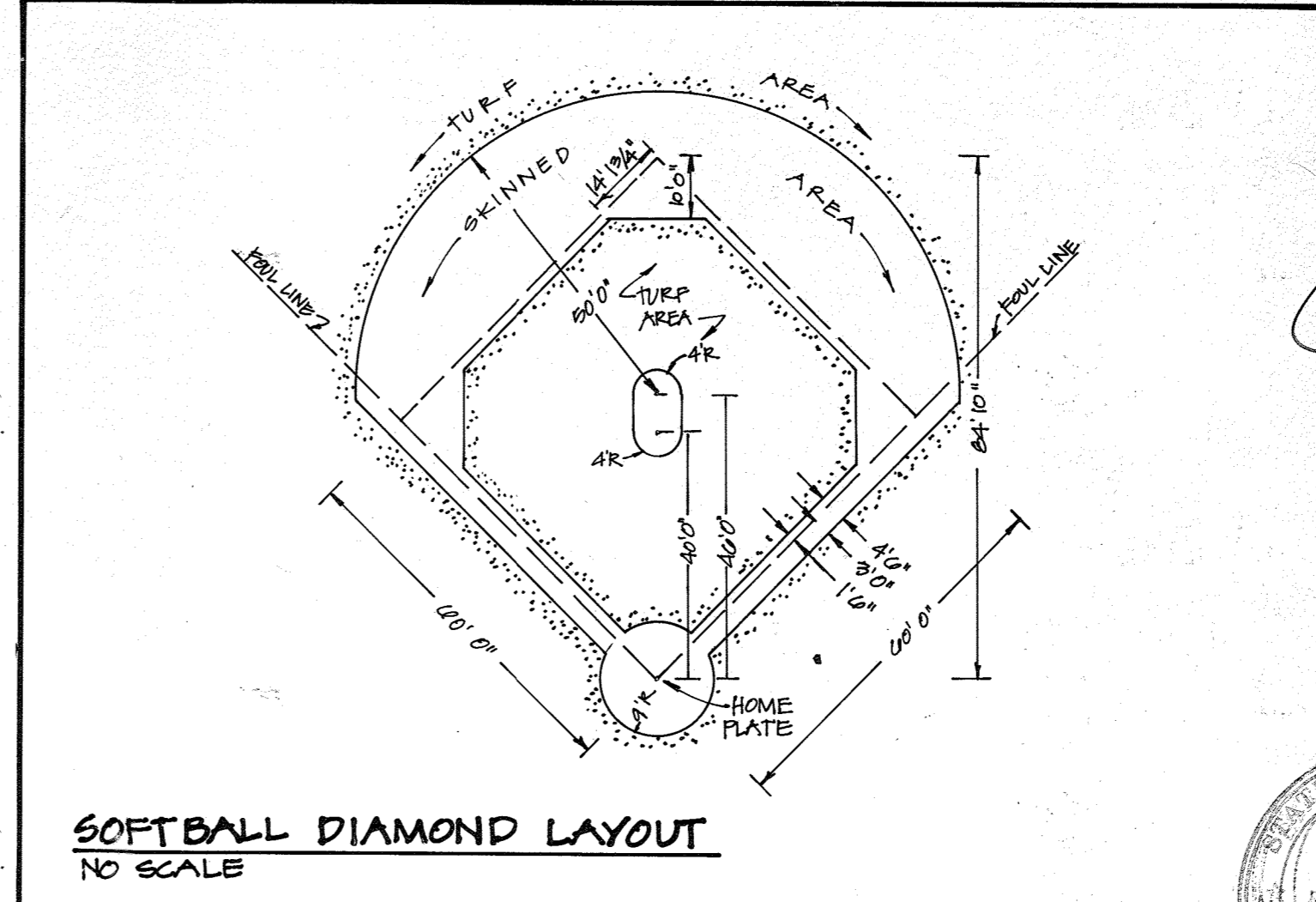
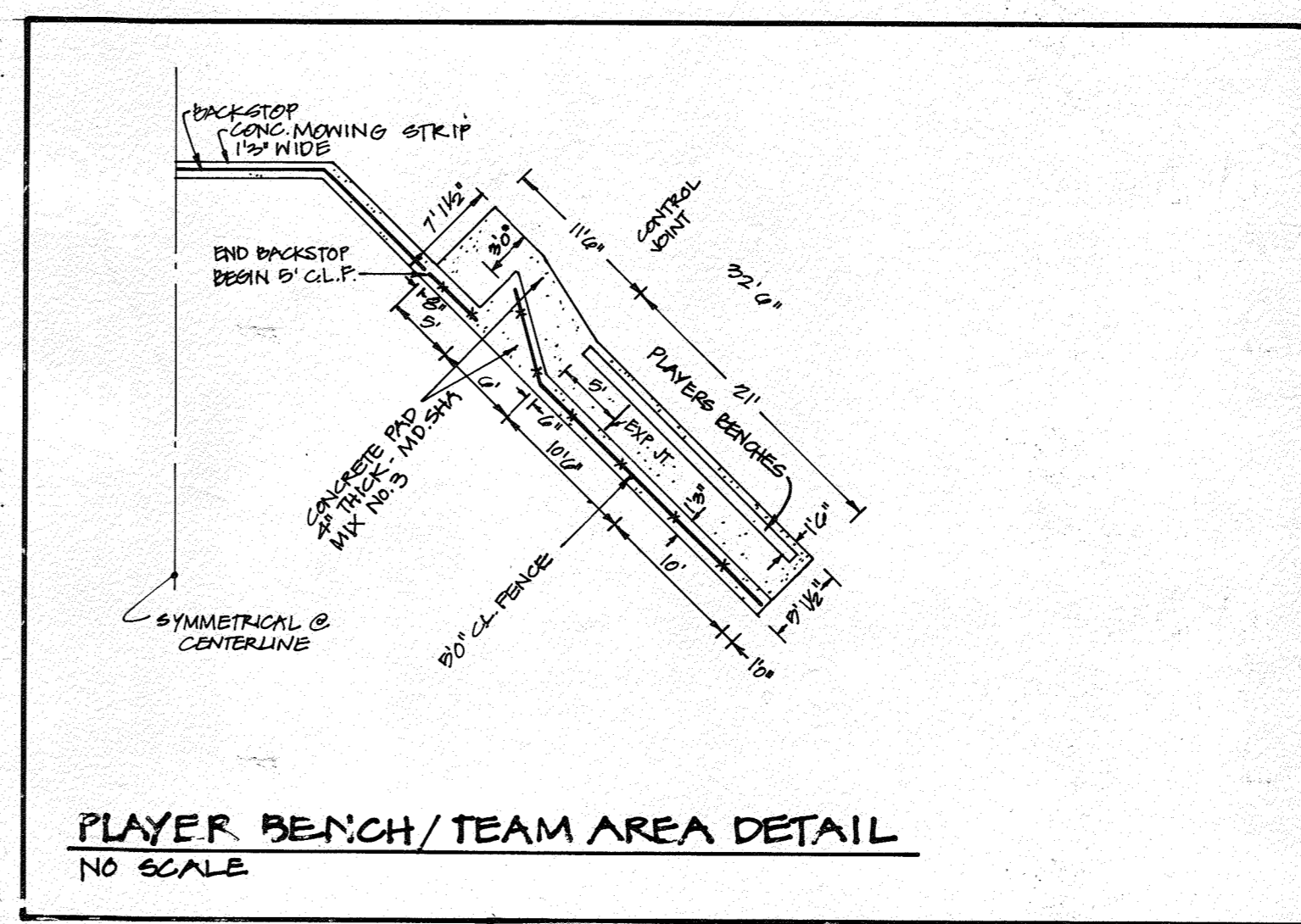
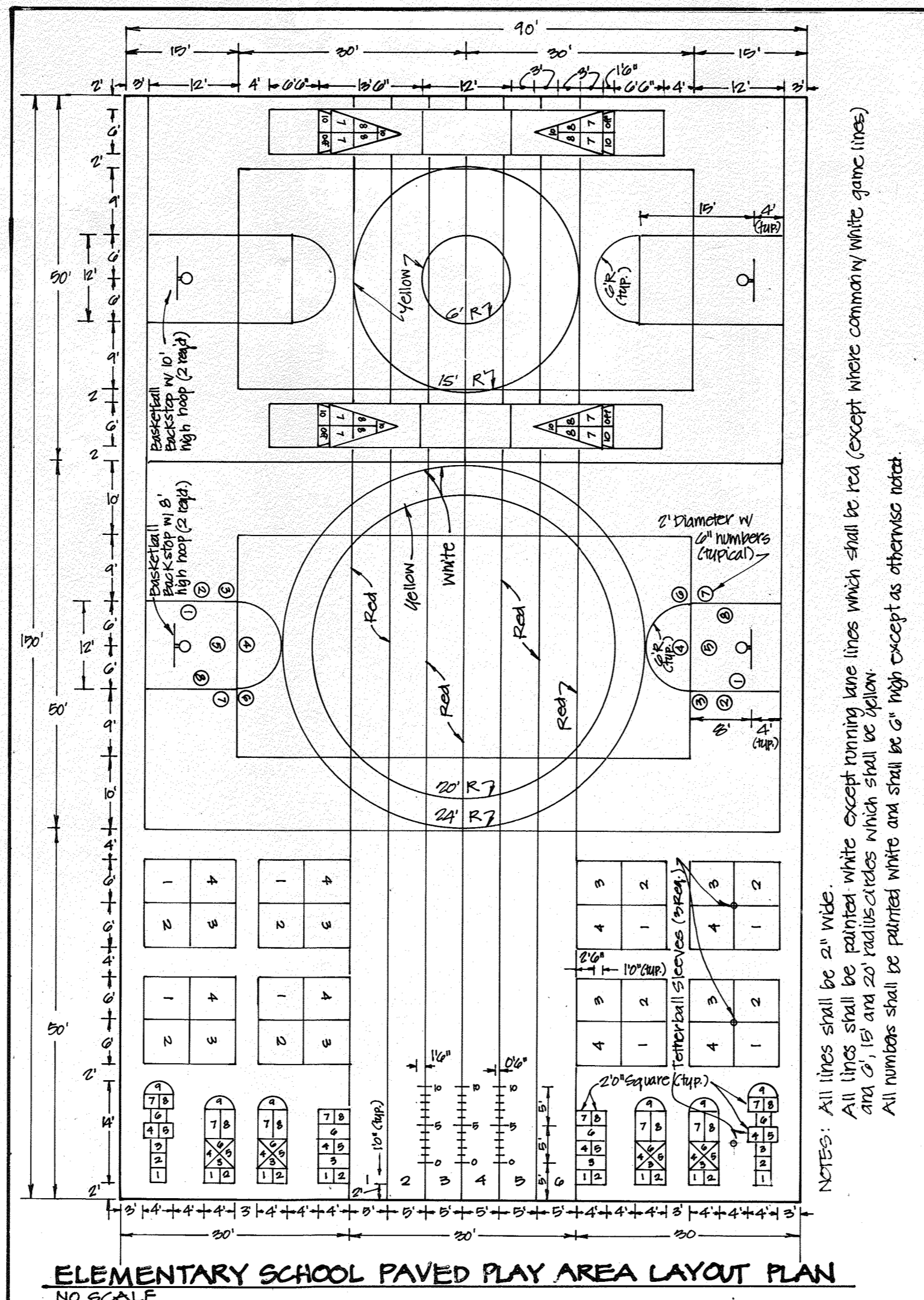
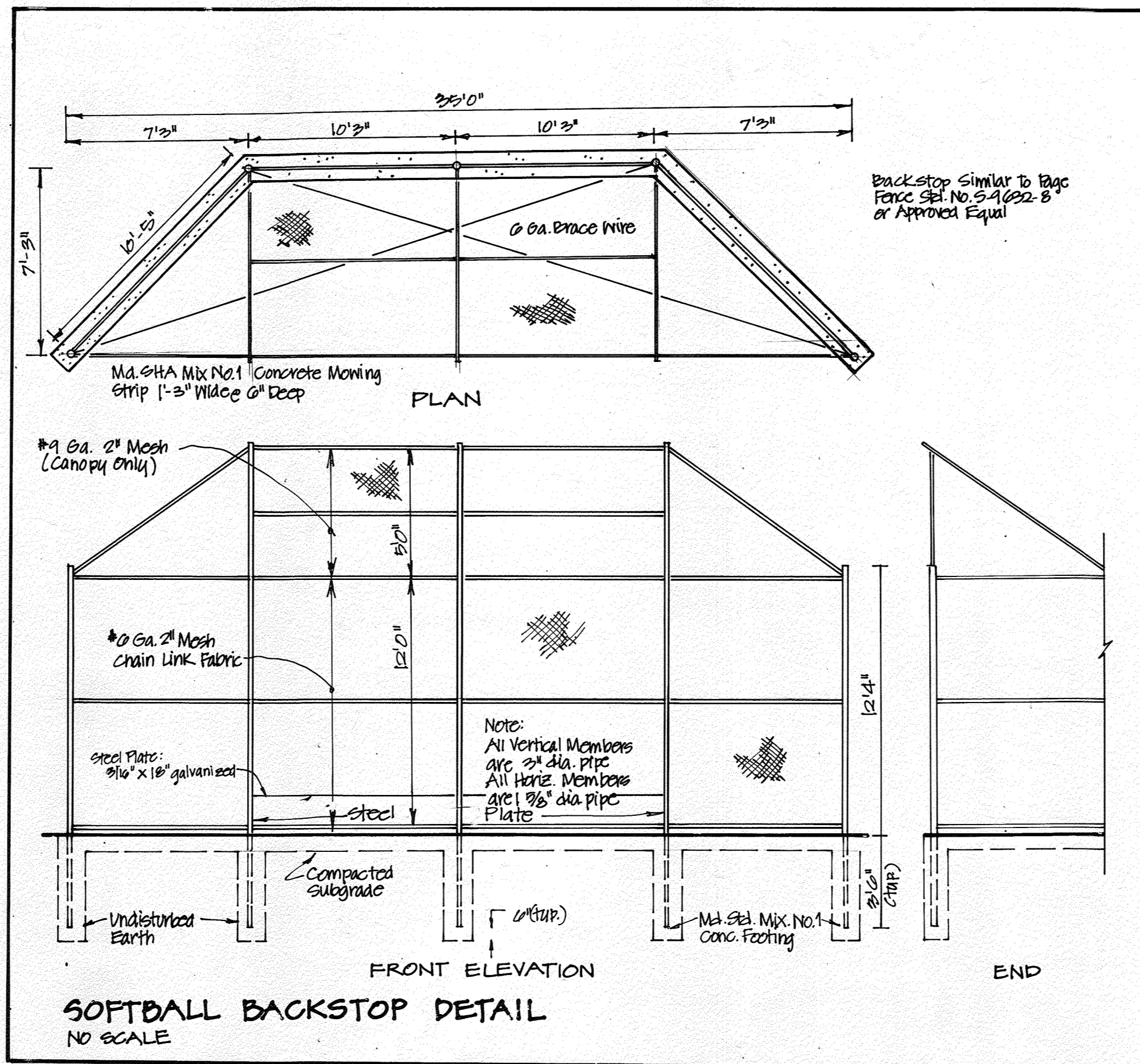
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

## Gutter Flow Computations

INLET NO.	REMARKS	T.C. (Min.)	A (Acres)	c	i in/hr.	Q c.f.s.	Q <sub>max</sub> c.f.s.	STREET GRADE	V <sub>max</sub> ft/sec	F <sub>1</sub> or F <sub>2</sub>	Q theor. = Q <sub>max</sub> /F <sub>1</sub>	SPREAD For theor.	INLET TYPE	CAP. c.f.s.	CARRY-OVER c.f.s.
E-1	Normal Inlet	12.9	1.975	0.48	5.90	3.54	3.54	1.04	3.54	1.55	10.02	12'	A-10 w/Dep.	5.5	1.00
A-6	Sump	5.0	0.85	0.63	0.5	3.25	3.25	-	-	-	-	-	A-10	7.5	-
A-6	Storm Catch Basin	13.5	0.95	0.63	5.9	3.58	3.64	(No. 40)	4.75	1.04	12'	-	A-10	7.5	-
D-1	Storm	5.0	0.607	0.44	0.5	2.27	2.27	0.50	4.75	1.04	12'	-	A-10 w/Dep.	5.7	0.0
A-7	Sump	5.0	0.456	0.88	0.5	2.40	2.40	-	-	-	-	-	A-5	7.5	0.0
A-9	Sump	5.0	0.530	0.88	0.5	2.62	2.62	-	-	-	-	-	A-5	7.5	0.0
A-10	3.0% Cross Slope	5.0	0.548	0.64	0.5	2.98	2.98	0.185	3.31	1.80	3.73	5.2	A-10	8.5	0.0
B-1	4.0% Cross Slope	5.0	0.530	0.77	0.5	2.90	2.90	0.22	3.70	1.99	5.6	5.6	A-10	8.6	0.0
E-2	3.0% Cross Slope	5.0	0.586	0.63	0.5	3.12	3.12	0.50	5.77	1.04	7.0	7.0	A-10 w/Dep.	5.7	0.0
F-3	Normal Inlet 1/800	5.0	0.548	0.70	0.5	3.28	3.36	0.22	3.70	1.99	10	10	A-10	5.0	0.0
F-1	Sump	5.0	0.876	0.67	0.5	2.79	2.79	-	-	-	-	-	A-10	7.5	0.0

## Swale Flow Computations

INLET NO.	REMARKS	T.C. (Min.)	A (Acres)	c	i in/hr.	Q c.f.s.	Q <sub>max</sub> c.f.s.	SWALE SLOPE	V <sub>max</sub> ft/sec	SPREAD For V <sub>max</sub>	V <sub>swale</sub>	INLET TYPE	CAP. c.f.s.	CARRY-OVER c.f.s.
A-5	Sump	5.0	1.57	0.63	0.5	3.33	-	0.0	-	-	-	TYPE 3 INLET	9.4	-
A-3	Sump	5.0	0.99	0.62	0.5	2.10	-	0.0	-	-	-	TYPE 3 INLET	10.2	-
A-4	Sump	5.0	2.12	0.50	0.5	0.90	-	0.0	-	-	-	TYPE 3 INLET	10.0	-



D.D.	REVISION No. 2nd Sub	REVISION
CD	REVISION Add No. 1 - STD	REVISION
PERMIT	REVISION FIRST REC'D	REVISION
ISSUE	01D 03-13-91	REVISION 04-12-91

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS' HOWARD COUNTY HEALTH DEPARTMENT  
 Director: *[Signature]* DATE: 4-25-91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: *[Signature]* DATE: 4/29/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS' HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director (Acting): *[Signature]* DATE: 4/25/91

**Eddy & Eckhardt Architects**  
 9912 C Georgetown Pk. • Box 477 • Great Falls, Virginia 22066 • 703-759-5500 Fax: 703-759-5519

CIVIL ENGINEER  
 CAD/CDS  
 3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
 703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
 SWSG  
 209 Eden Street, 801 - Herndon, Virginia 22070  
 703-471-6803 Fax 703-742-1975

Mechanical/Electrical Engineer  
 Glassman Associates  
 1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
 703-796-1250 Fax 703-796-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
 1992 SOUTHEASTERN ELEMENTARY SCHOOL  
 Howard County, Maryland

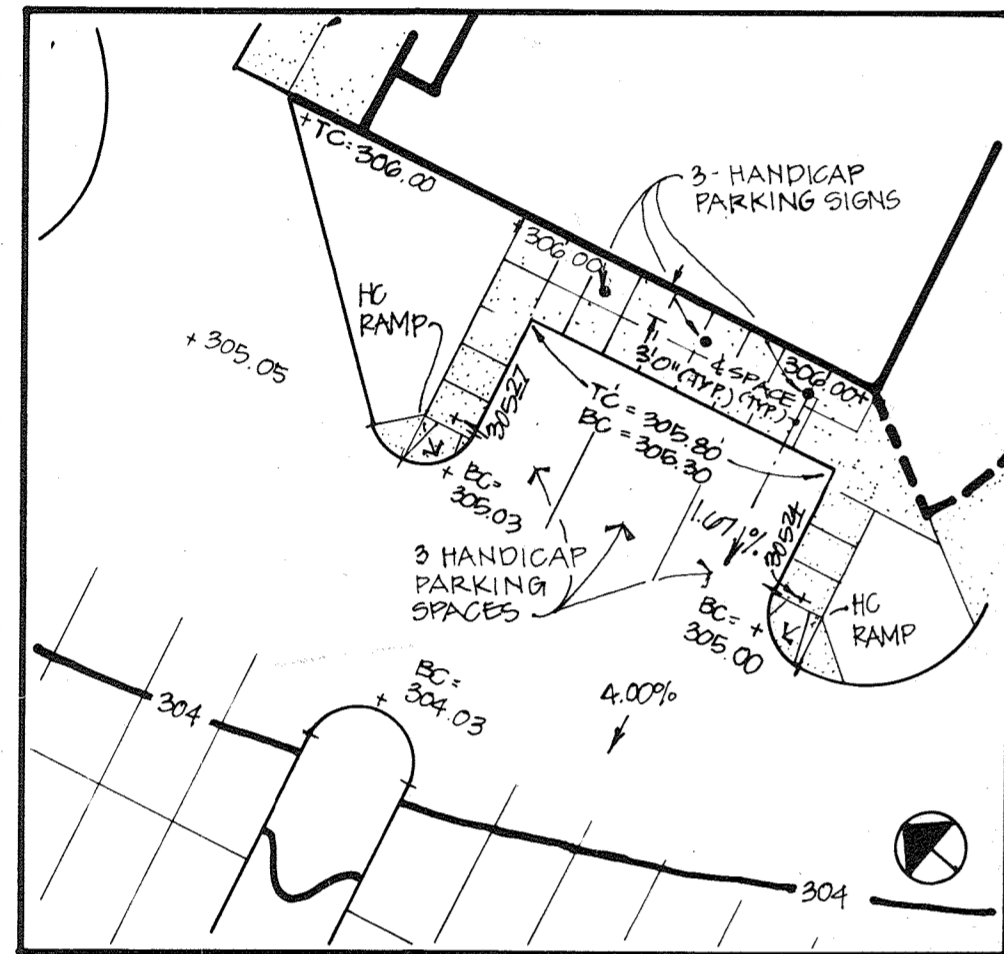
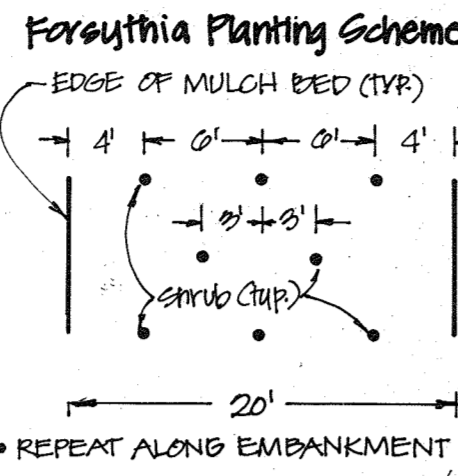
Howard County Board of Education  
 101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
 Tax Map 47  
 LIBBE: 2276 FOLIO: 0232  
 Water Code: 003 Sewer Code: 6100000  
 SDP-91-80

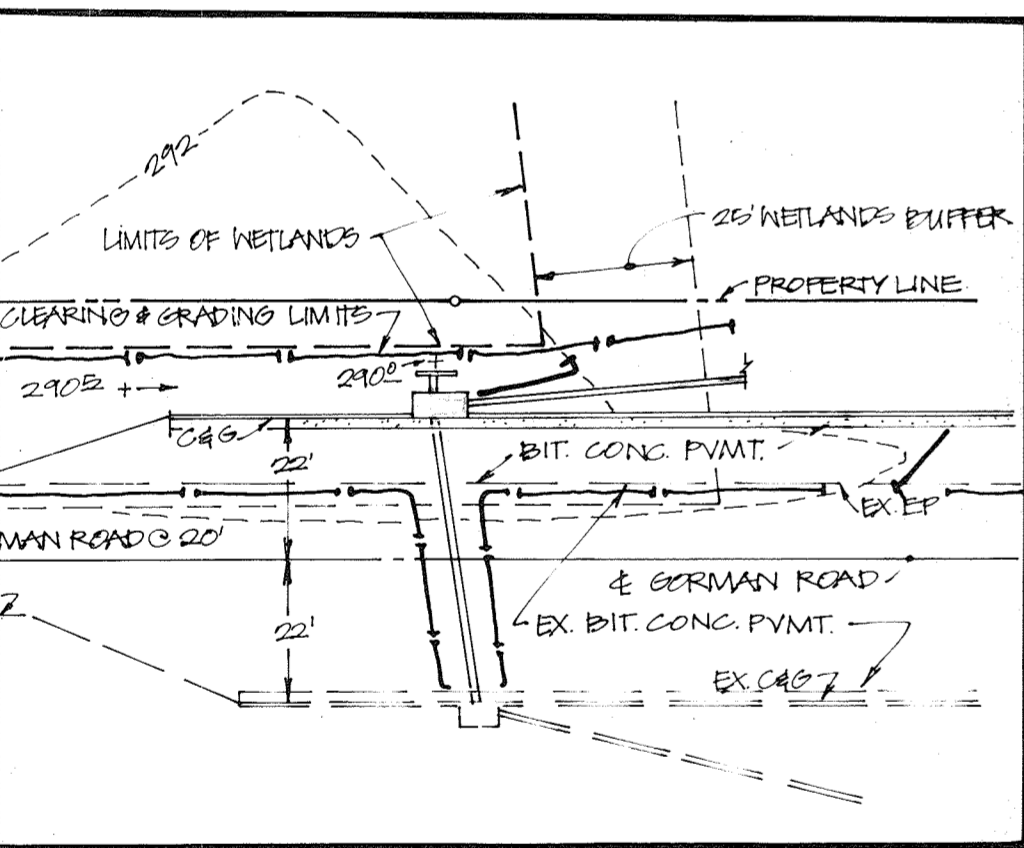
Architect's Project No. 89181 C&E Project No. 091-0130

PLANT LIST

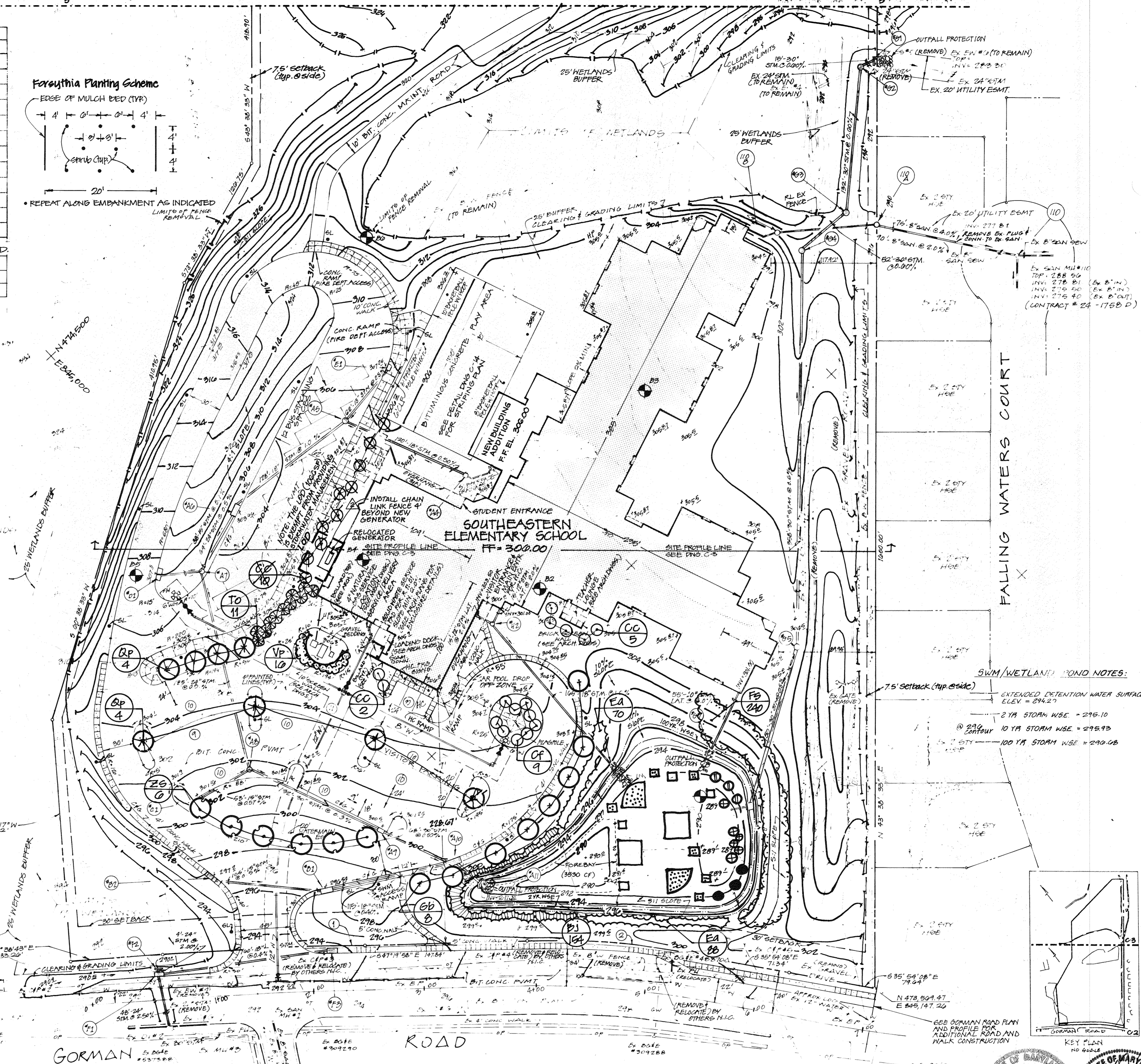
Key	Qty	Botanical Name	Common Name	Size	Notes
VP	10	Viburnum plicatum 'tomentosum'	Doublefile Viburnum	3'-4'	B&B
CC	15	Cercis canadensis	American Redbud	5'-6'	B&B
ZS	6	Zelkova serrata 'Green Vase'	Green Vase Zelkova	2 1/2'-3'	B&B
CP	8	Quercus palustris	Pin Oak	2 1/2'-3'	B&B
GB	8	Ginkgo biloba (Saltburia)	Maidenhair Tree	2 1/2'-3'	B&B
OF	4	Prunus yedoensis	Yoshino Cherry	6'-8'	B&B
To	11	Thuja occidentalis nigra	Dark American Arborvitae	6'-8'	B&B
<b>WETLANDS PLANTINGS</b>					
•••		Sagittaria latifolia	Duck Potatoe	3' O.C. staggered	
•••		Scirpus americanus	Common Three square	3' O.C. staggered	
⊕		Cephalanthus occidentalis	Button Bush	5' as indicated	
•••		Saururus cernuus	Lizard's Tail	5' each 'clump'	
•••		Reltandra virginica	Arum-Arum	5' each 'clump'	
NOTE: PROVIDE QUANTITY OF PLANT MATERIAL REQUIRED TO FILL AREAS OUTLINED IN WETLANDS POND					
ED	154	Dorberis julianae	Wintergreen Barberry	18"-24"	Cont. 24" O.C. staggered
EA	158	Euonymus alatus compactus	Dwarf Winged Euonymus	2'-3'	24" O.C. staggered
FS	240	Forsythia suspensa	Weeping Forsythia	2'-3'	See planting scheme



HANDICAP PARKING/GRADING  
DETAIL: SCALE: 1" = 20'-0"



RIGHT-OF-WAY  
STORM DRAINAGE DETAIL SCALE: 1" = 20'



- NOTES:
- See Architectural Drawings for concrete walk, scoring and layout requirements @ car pool drop off zone, dumpster pad, bus drop-off, kindergarten play, teacher lounge area & related walls and bollards.
  - Parking Area lighting will be directed away from all residential areas and rights-of-way.
  - Street lighting will be provided in relocated 4'P poles. 150' watt HPS luminaires to be mounted on 20' high poles.
  - Coordinate site lighting with electrical drawing SE-1.

NO	REVISIONS	DATE
2	REPLACE GENERATOR	5-16-22
1	Added building addition and play area	10-19-07

THIS PLAN IS FOR INSTALLATION OF PLANT MATERIAL ONLY DO NOT USE FOR CONSTRUCTION OF OTHER PERMANENT SITE IMPROVEMENTS

DD 24 SEPT 1990	REVISION PER H.C. 10/22/90	REVISION FIRST H.C. 04-12-91
CD	REVISION 01-04-90	REVISION
FRM 21 DEC 1990	REVISION 02-17-90	REVISION
INSP BID 02-12-91	REVISION H.C. 03-15-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

*James M. Hester* 4/16/91  
U.S. Soil Conservation District Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*Robert W. Zickler* 4/16/91  
Howard Soil Conservation District Date

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

*James M. Hester* 4-25-91  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*James M. Hester* 4/29/91  
DIRECTOR DATE

APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

*Robert W. Zickler* 4/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*Robert W. Zickler* 4/25/91  
DIRECTOR (Ac Imp) DATE

*Robert W. Zickler* 4-25-91  
CHIEF BUREAU OF ENGINEERING DATE

**Eddy & Eckhardt Architects**  
1912 C Georgetown Pike • Box 477 • Great Falls Virginia 22066 • 703-759-5500 Fax 759-5519

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWN:  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6603 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**FOREST RIDGE ELEMENTARY SCHOOL**  
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

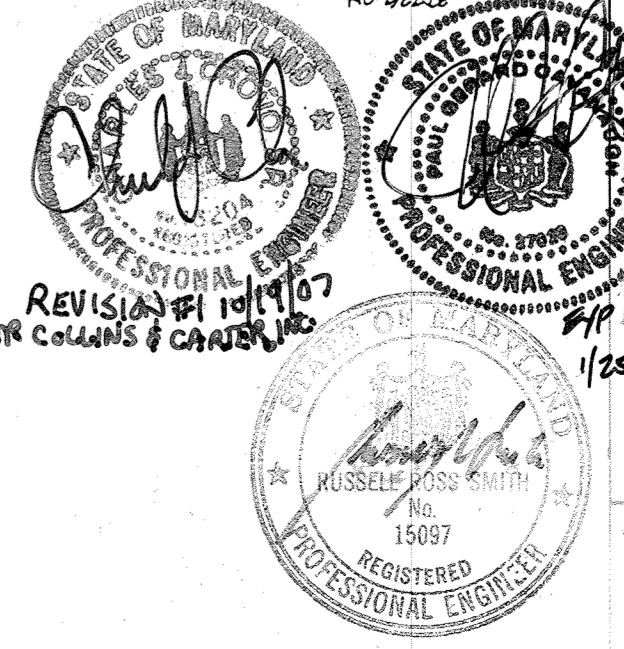
Election District No. 6 Census Tract No. 6063

Tax Map 47  
LIBER: 2270 FOLIO: 0232  
Water Code: C03 Sewer Code: G100000

SDP-91-80

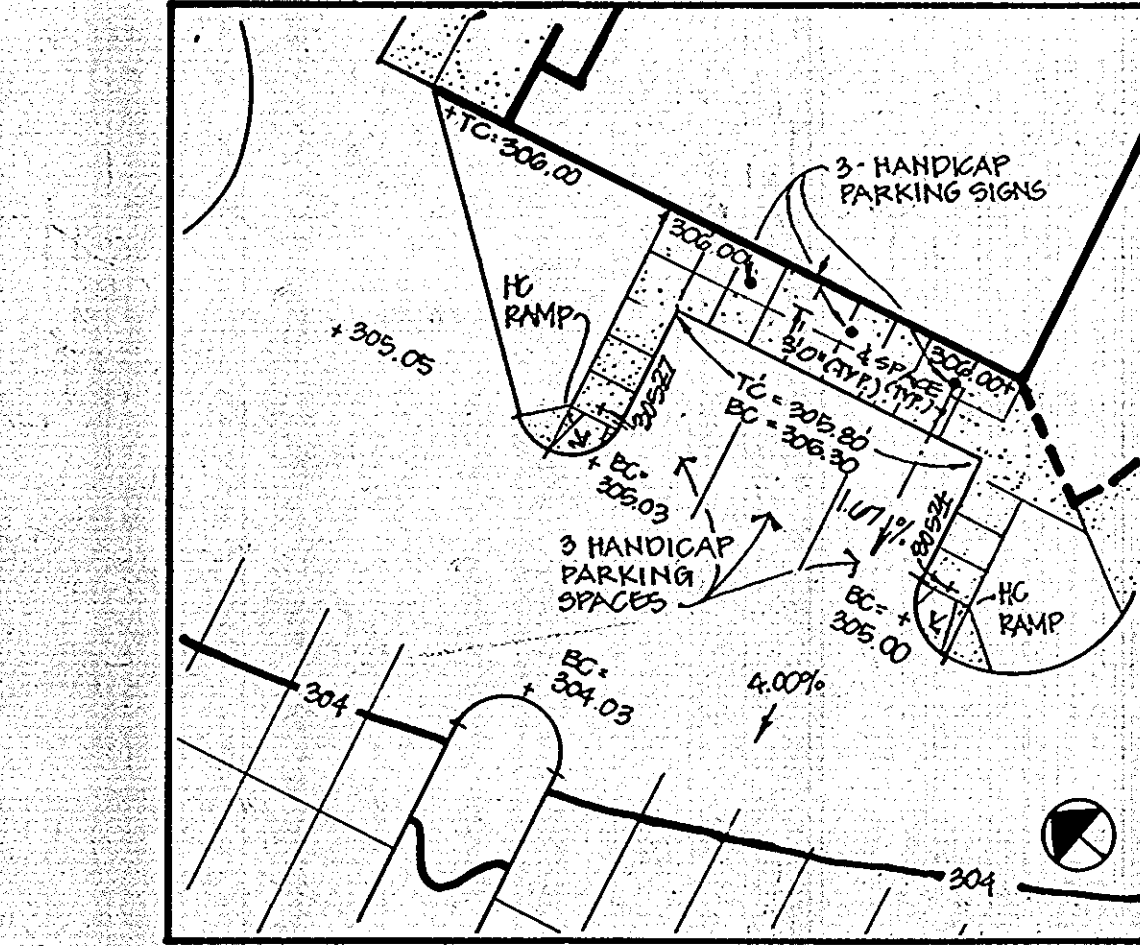
Landscape Plan L-1

SDP-91-80

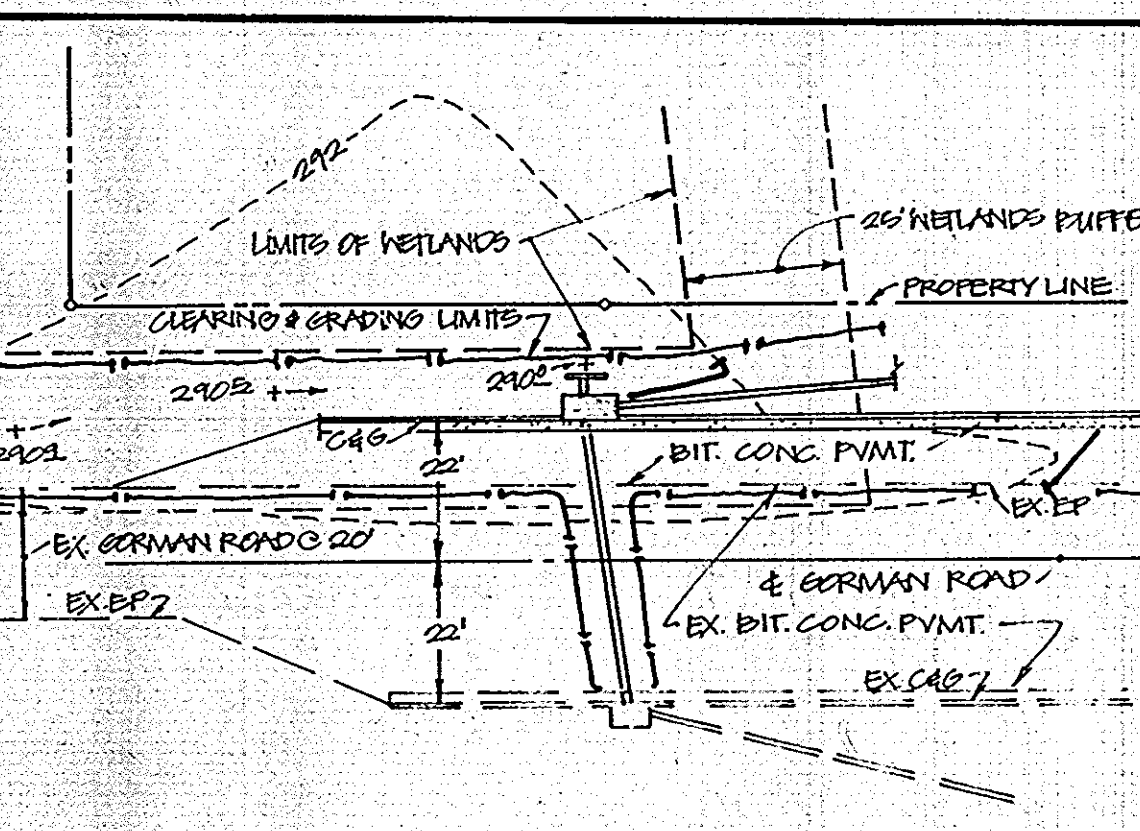


# PLANT LIST

Key	Qty	Botanical Name	Common Name	Size	Notes
VP	10	Viburnum plicatum 'Amoratum'	Doublefile Viburnum	3'-4'	B&B
CC	15	Cercis canadensis	American Redbud	1'-0'	B&B
ZS	6	Zelkova serrata 'Green Vase'	Green Vase Zelkova	2 1/2'-3'	B&B
QP	2	Quercus palustris	Pin Oak	2 1/2'-3'	B&B
GB	2	Ginkgo biloba (Salsburia)	Maidenhair Tree	2 1/2'-3'	B&B
OF	4	Prunus yedoensis	Yoshino Cherry	6'-8'	
To	11	Thuja occidentalis nigra	Dark American Arborvitae	6'-8'	
<b>WETLANDS PLANTINGS</b>					
		Sagittaria latifolia	Deck Potatoe	3' OC, staggered	
		Scirpus americanus	Common three square	3' OC, staggered	
		Cephalanthus occidentalis	Button Bush	5 as indicated	
		Saururus cernuus	Lizards Tail	5 each 'clump'	
		Peltandra virginica	Arum-atum	5 each 'clump'	
<b>NOTE: PROVIDE QUANTITY OF PLANT MATERIAL REQUIRED TO FILL AREAS OUTLINED IN WETLANDS FOND</b>					
BJ	154	Berberis julianae	Wintergreen Barberry	18"-24" Cont. 24" O.C. staggered	
EA	150	Euonymus alatus compactus	(Purple Ninged) Euonymus	2'-3'	24" O.C. staggered
FS	240	Forsythia suspensa	Weeping Forsythia	2'-3'	See planting scheme



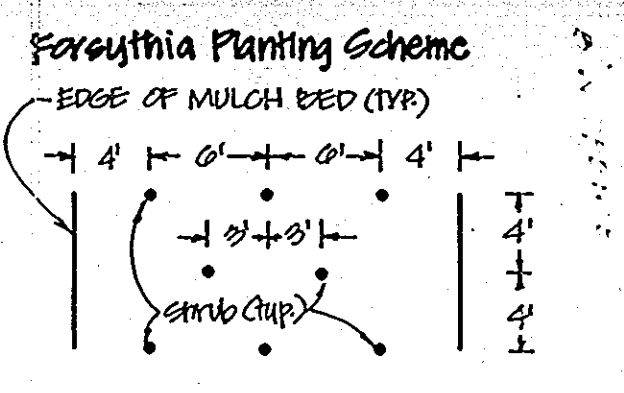
**HANDICAP PARKING/GRADING DETAIL**  
SCALE: 1" = 20'-0"



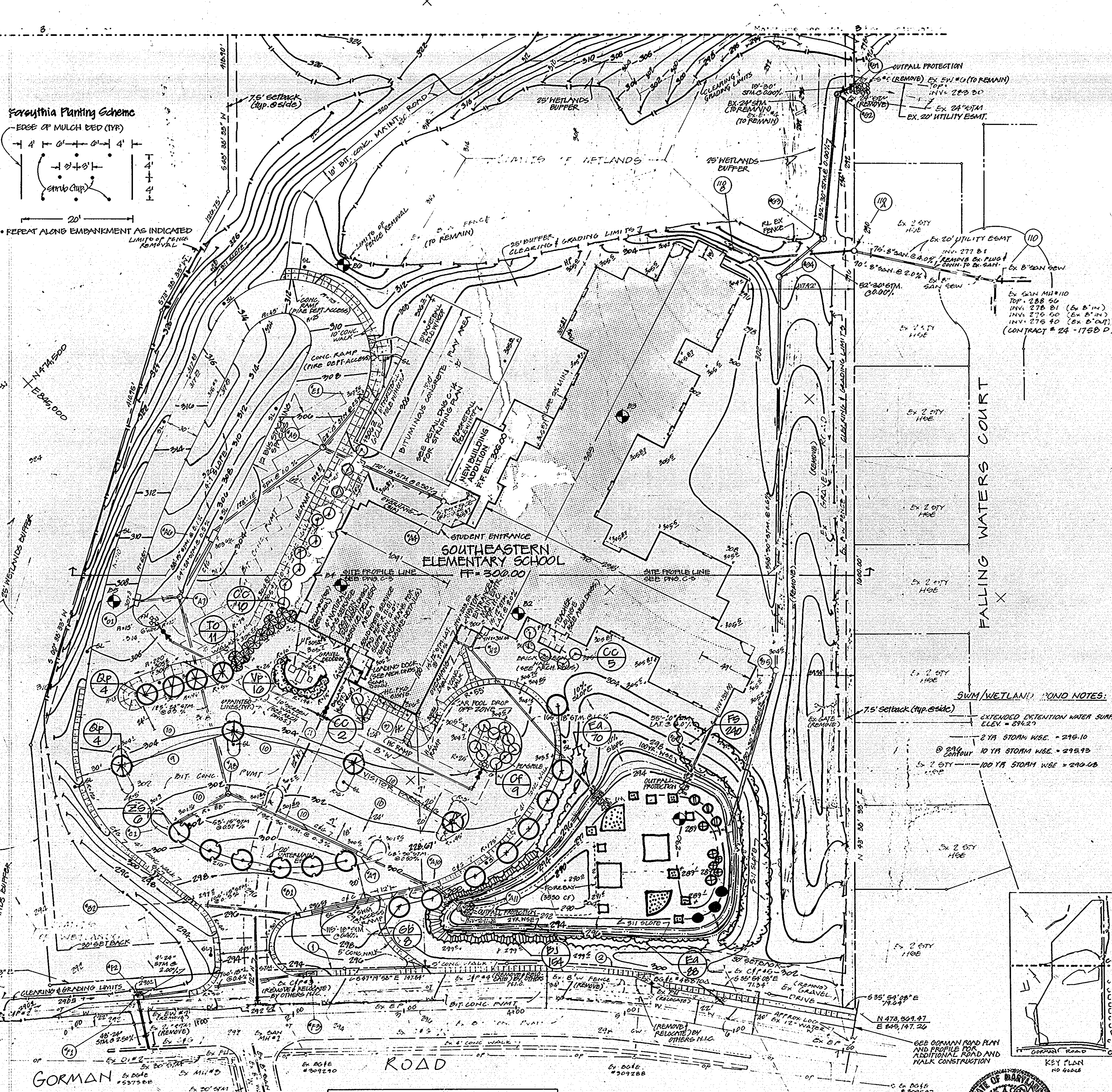
**RIGHT-OF-WAY STORM DRAINAGE DETAIL**  
SCALE: 1" = 20'

- NOTES:**
- See Architectural Drawings for concrete walk, scoring and layout requirements @ car pool drop off zone, dumpster pad, bus drop-off, kindergarten play, teacher lounge area & related walls and barriers.
  - Parking Area lighting will be directed away from all residential areas and rights-of-way.
  - Street lighting will be provided on relocated C&P poles. 150' post HPS fixtures to be mounted on 25' high poles.
  - Coordinate site lighting with electrical drawing SE-1.

NO	Added building addition and play area	DATE
1	Added building addition and play area	10-19-07



REPEAT ALONG EMBANKMENT AS INDICATED  
LIMITS OF FENCE REMOVAL



NO	DATE	BY	REVISION
1	24-SEP-1990	JANIS H. HARRIS	PROJ. NO. 24-1750-D
2	01-04-90	JANIS H. HARRIS	REVISION
3	21-DEC-1990	JANIS H. HARRIS	REVISION
4	02-12-91	JANIS H. HARRIS	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

*Janis M. Harris* 4/16/91  
U.S. Soil Conservation District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*Ralph W. Zichem* 4/16/91  
Howard Soil Conservation District

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

*Janis M. Harris* 4-25-91  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*Janis M. Harris* 4/29/91  
DIRECTOR

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

*Janis M. Harris* 4/25/91  
DIRECTOR (ACTING)

**Eddy & Eckhardt Architects**  
9312 Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-759-5500 • Fax 759-5519

**CIVIL ENGINEER**  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

**STRUCTURAL ENGINEER**  
NSWS  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-4003 Fax 703-742-2975

**MECHANICAL/ELECTRICAL ENGINEER**  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**1992 SOUTHEASTERN ELEMENTARY SCHOOL**  
Howard County, Maryland

Howard County Board of Education  
101810 Route 108 Ellicott City Maryland 21043

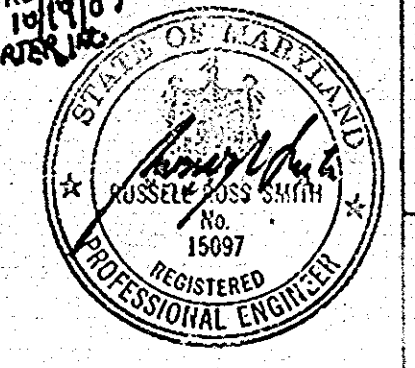
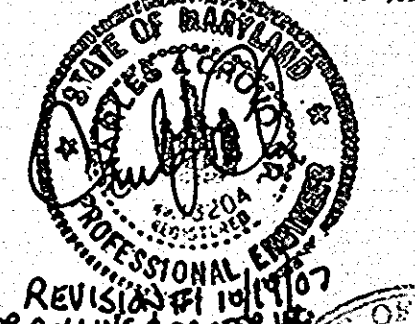
Election District No. 6 Census Tract No. 6063  
Tax Map 47  
Water Code: 2270 FOLIO: 0252  
Sewer Code: Q100000

SDP-91-80

**Landscape Plan L-1**

SDP-91-80

NO	DESCRIPTION	DATE
1	Added building addition and play area	10-19-07

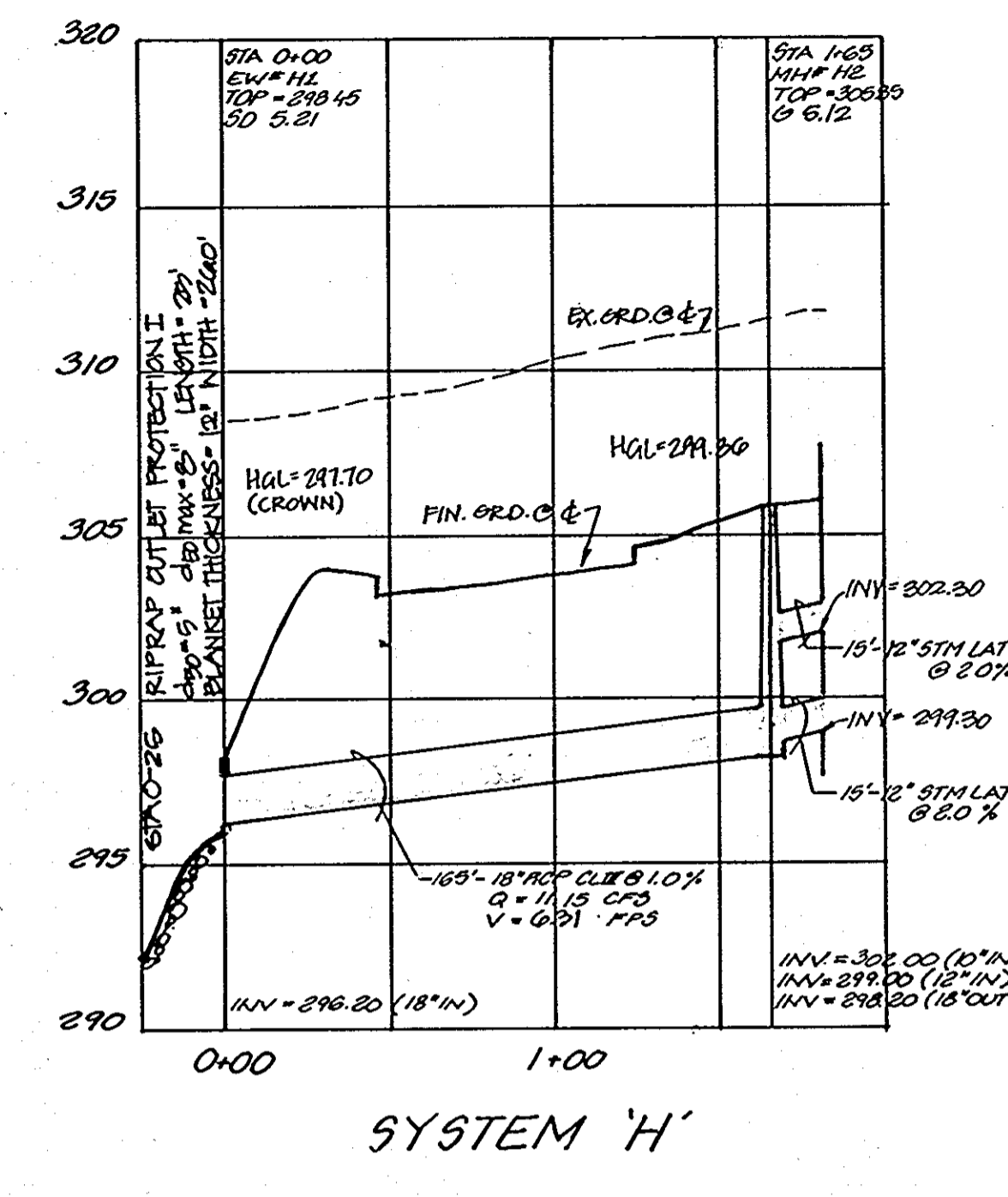
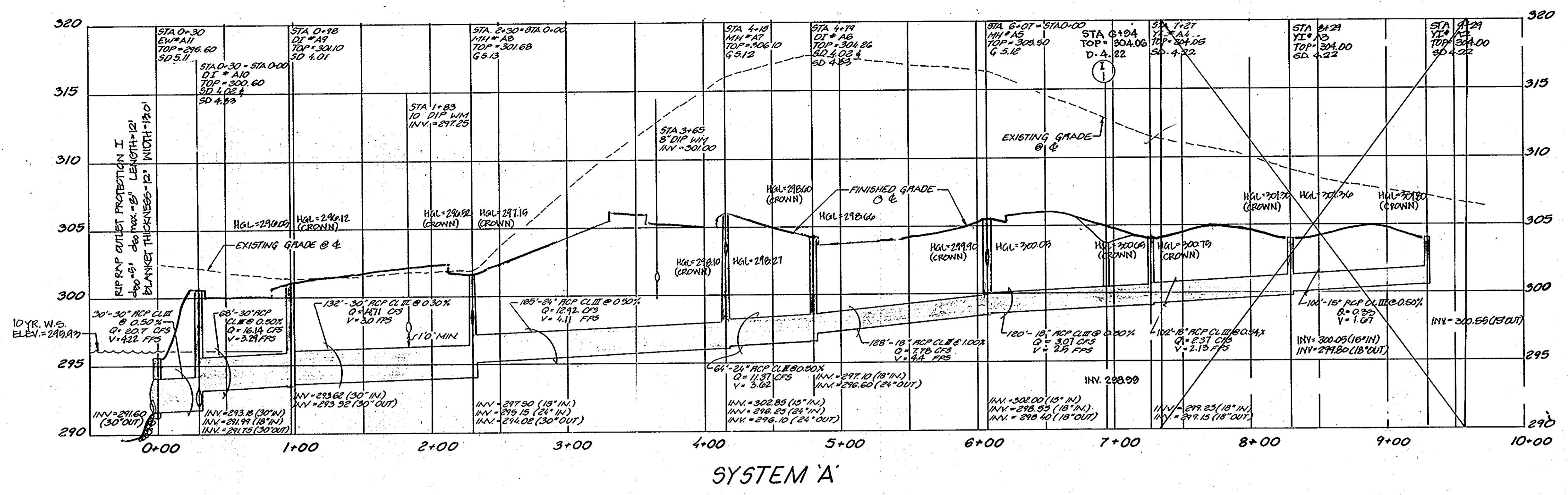


THIS PLAN IS FOR INSTALLATION OF PLANT MATERIAL ONLY DO NOT USE FOR CONSTRUCTION OF OTHER PERMANENT SITE IMPROVEMENTS

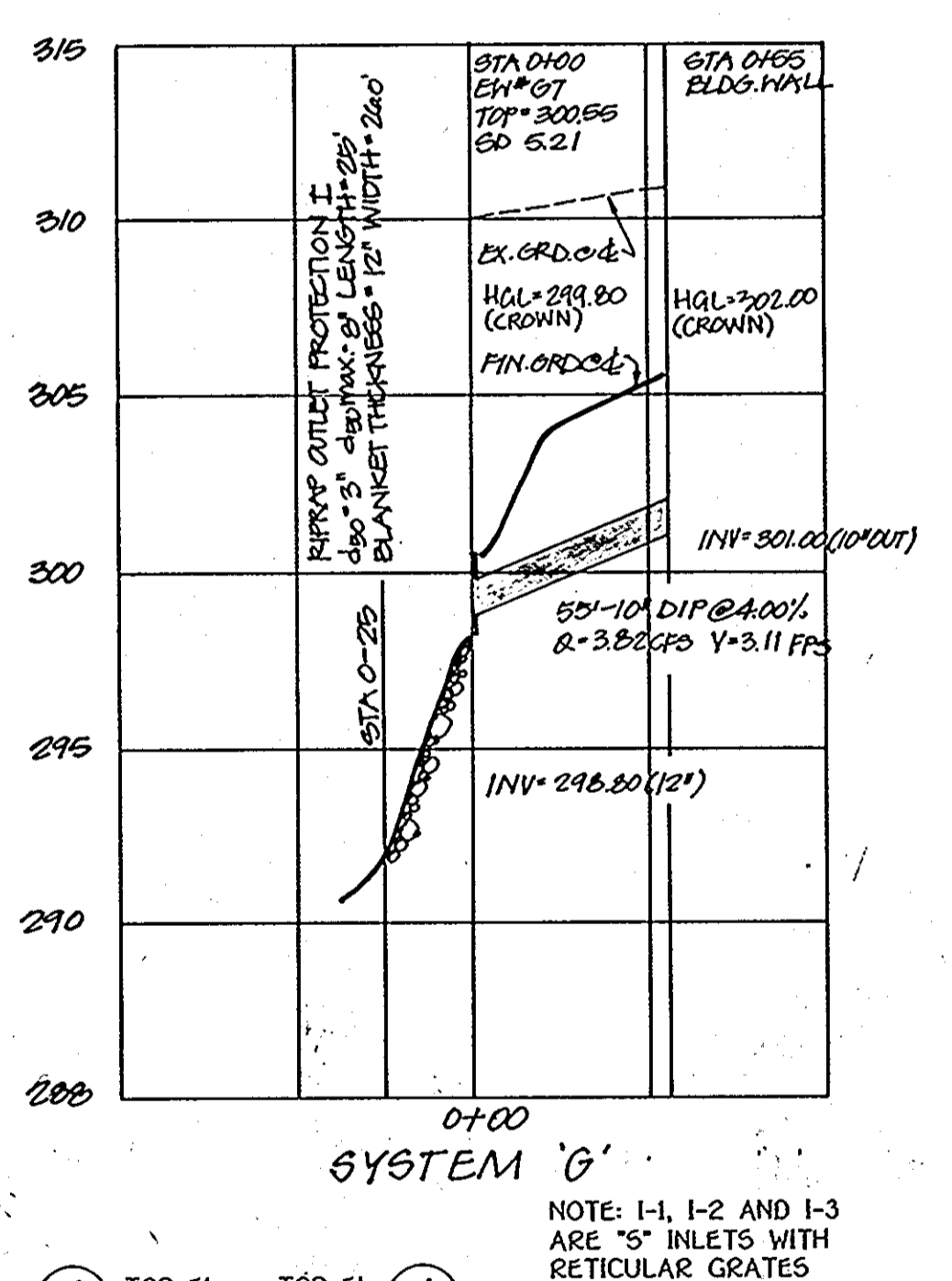
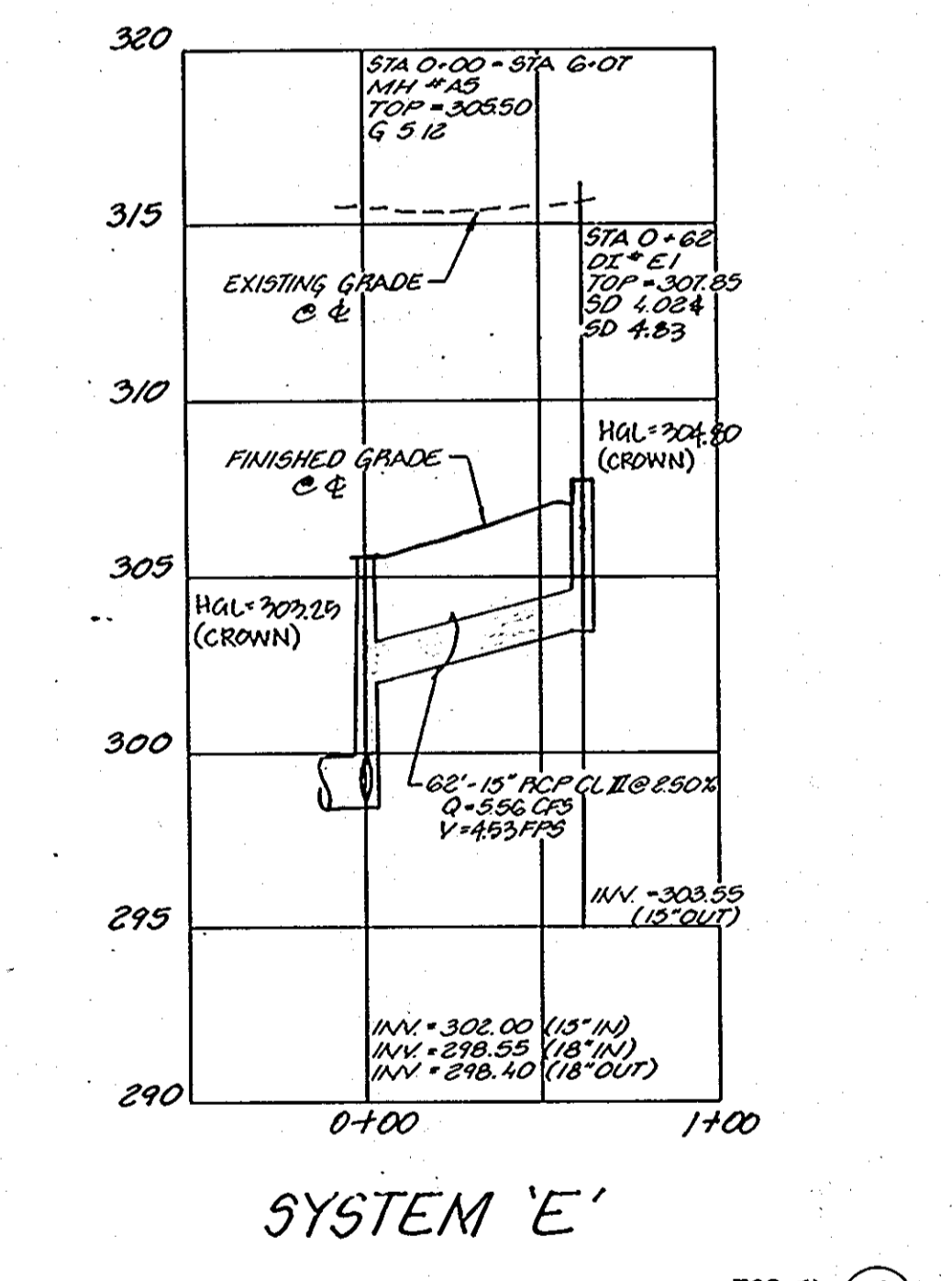
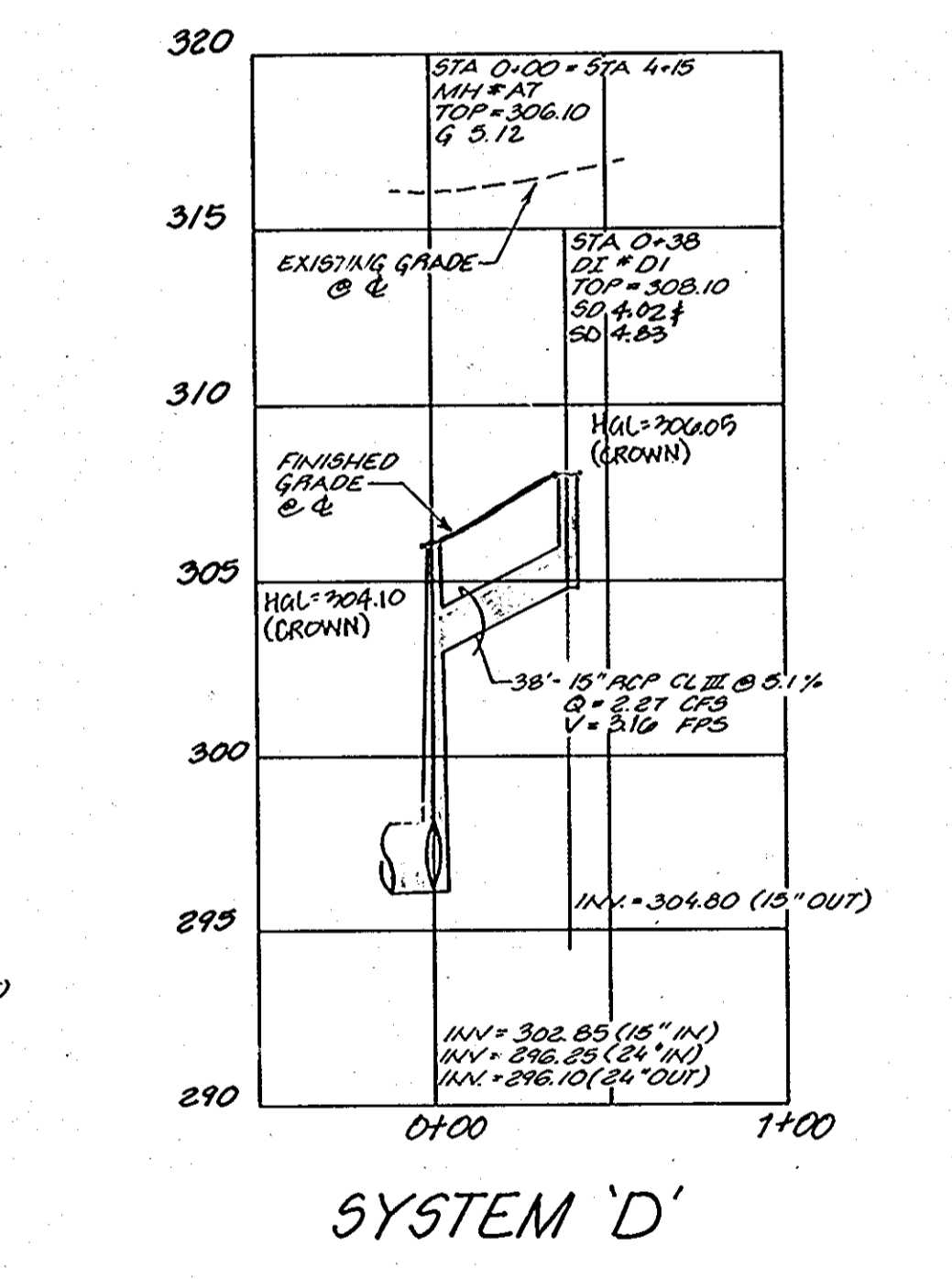
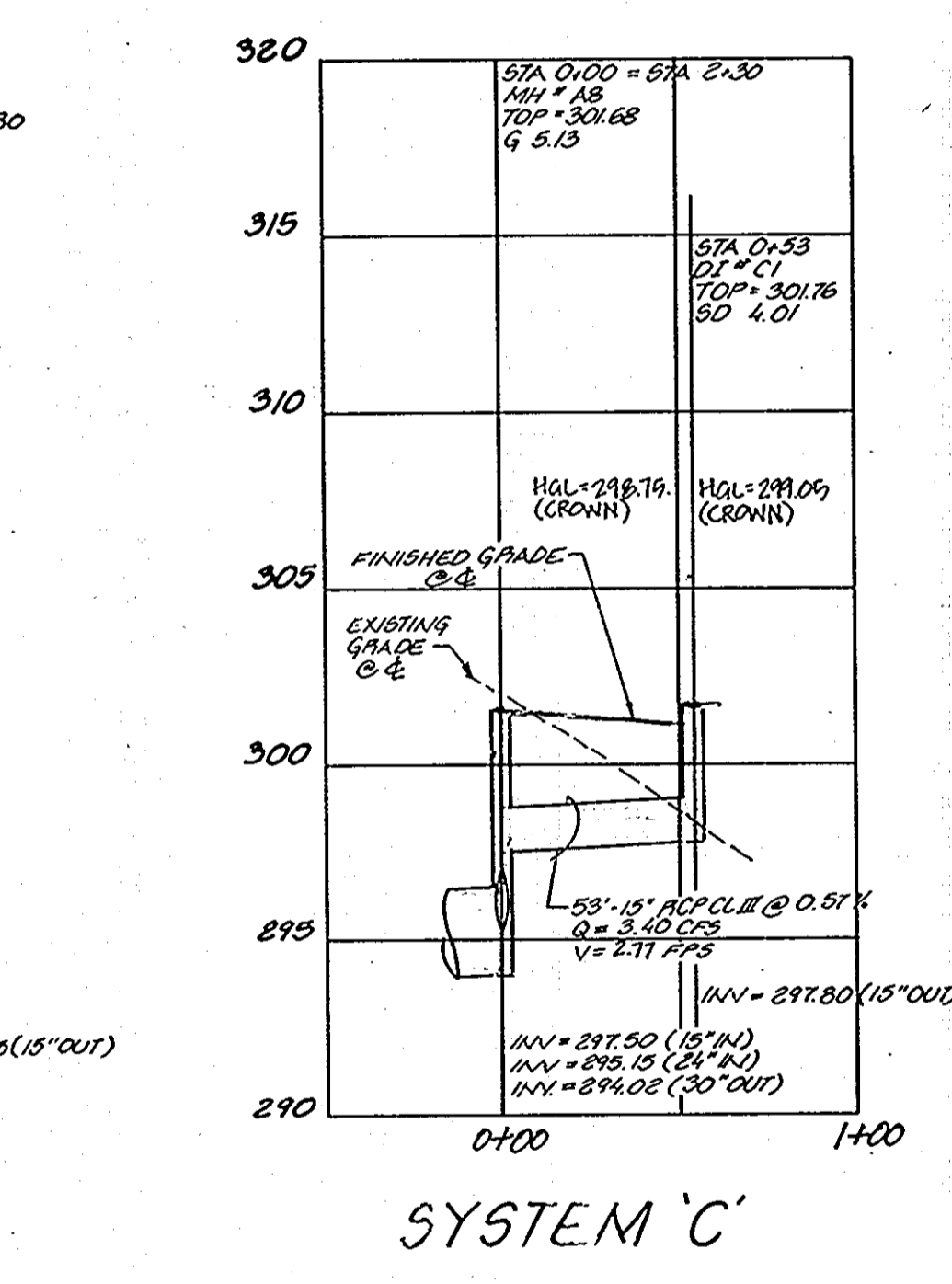
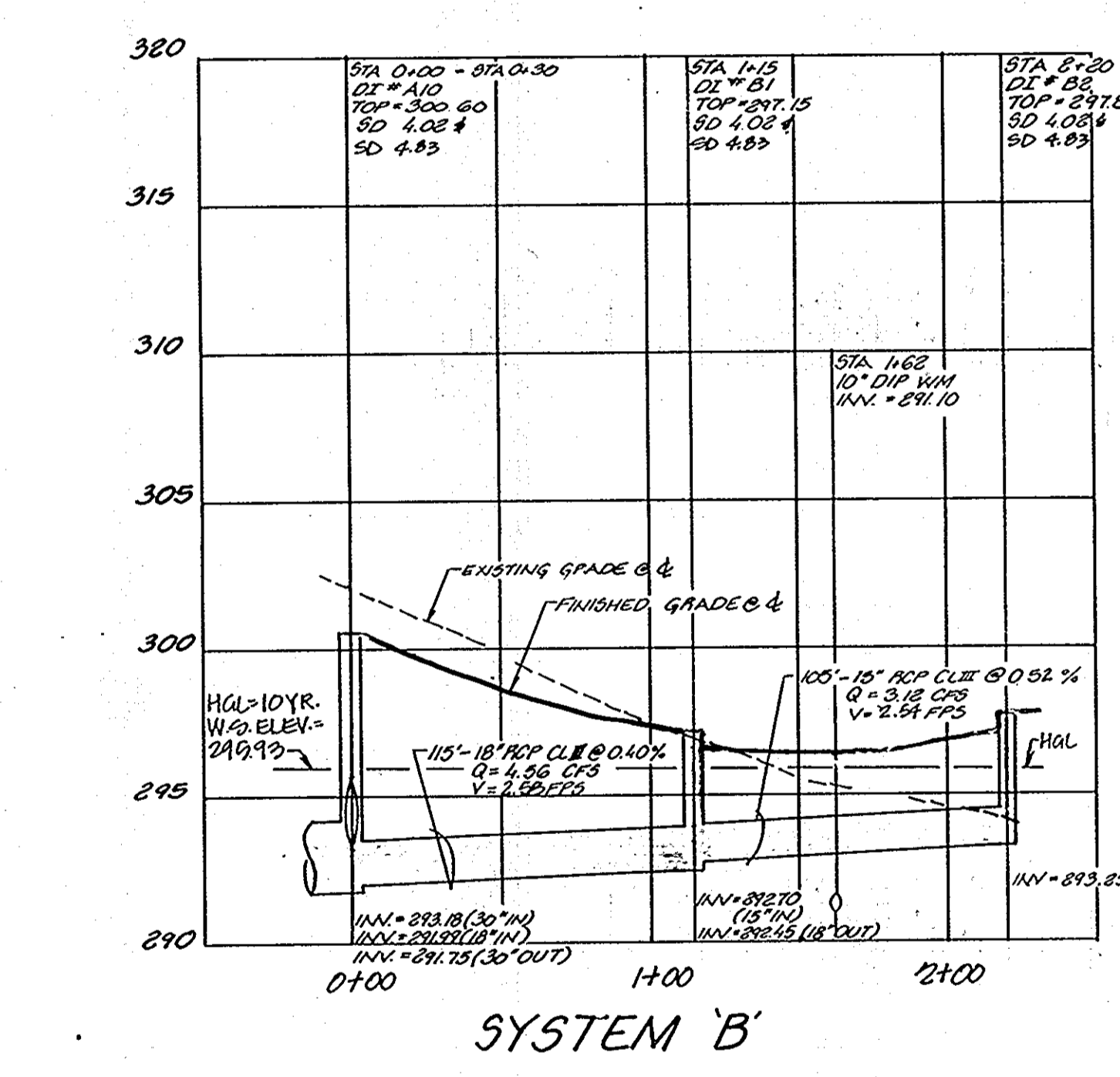


DD	REVISION	HC 240 S40	REVISION
CD	REVISION	03-15-91	REVISION
19	REVISION	03-27-91	REVISION
18	REVISION	08-12-91	REVISION
17	REVISION	09-12-91	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

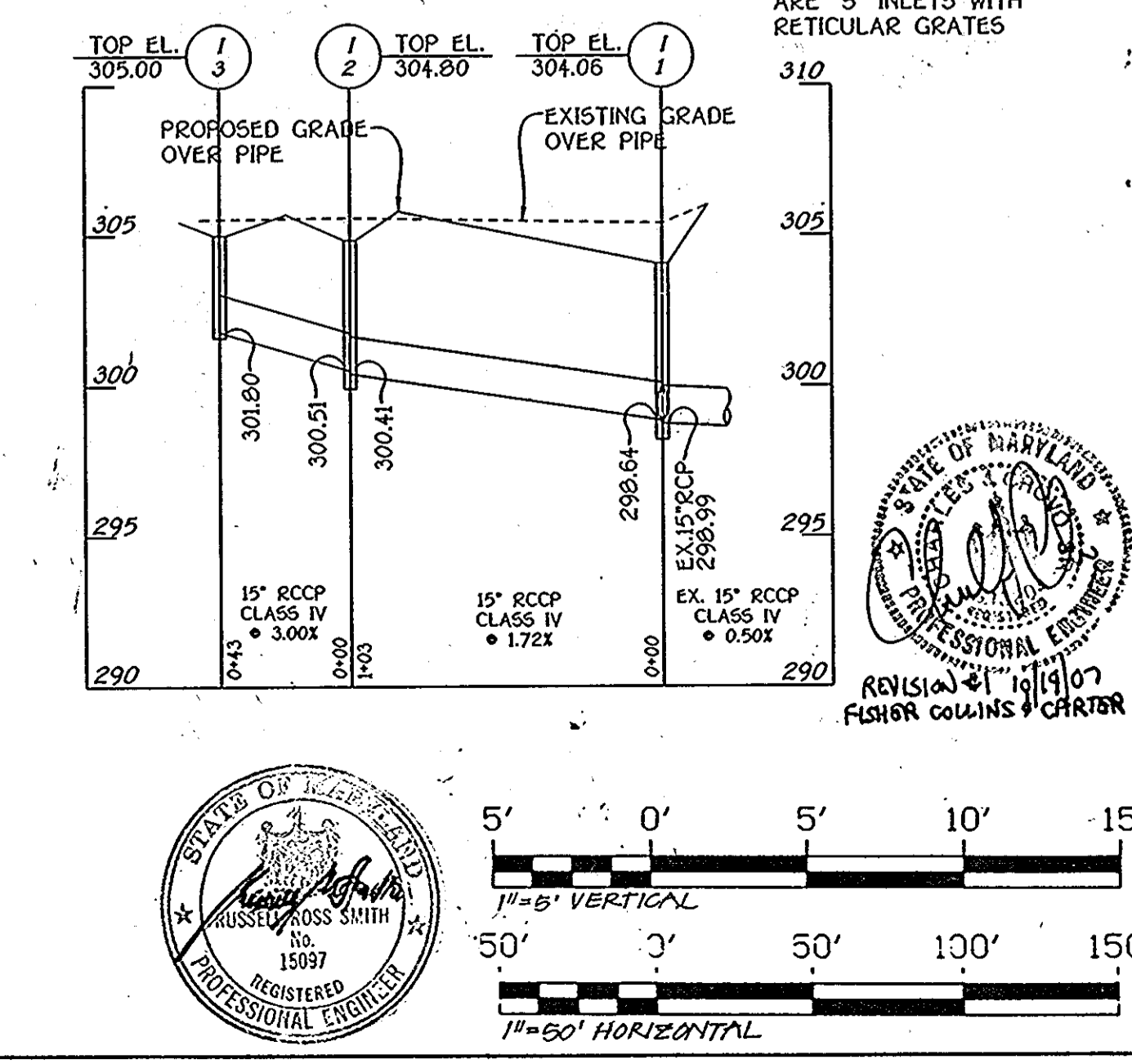


NOTE: RIPRAP OUTFALL PROTECTION TO BE IN ACCORDANCE WITH MARYLAND STANDARDS & SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL TOP-I, II OR III AS INDICATED.



Reach	Street	A. Conduit		B. Drainage Area & Runoff		C. Full Flow		D. Structure Losses		E. Remarks	
		St. (ft)	St. (ft)	Area (Ac)	Runoff (CFS)	Flow (CFS)	Velocity (FPS)	Loss (CFS)	Loss (%)	Flow (CFS)	Velocity (FPS)
A-1	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-2	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-3	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-4	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-5	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-6	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-7	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-8	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-9	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-10	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-11	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Reach	Street	A. Conduit		B. Drainage Area & Runoff		C. Full Flow		D. Structure Losses		E. Remarks	
		St. (ft)	St. (ft)	Area (Ac)	Runoff (CFS)	Flow (CFS)	Velocity (FPS)	Loss (CFS)	Loss (%)	Flow (CFS)	Velocity (FPS)
B-1	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-2	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-3	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-4	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-5	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-6	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-7	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-8	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-9	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-10	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B-11	304.22	304.22	304.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



1 Revised storm drain profile 10-19-07  
 NO REVISIONS DATE  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 Director: *James M. Boyd* DATE: 4-25-91  
 APPROVED: HOWARD COUNTY: Department of PLANNING & ZONING  
 Director: *James R. Kauter* DATE: 4/29/91  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Director: *James J. A. Leavelle* DATE: 4/29/91  
 Director: *James J. A. Leavelle* DATE: 4-25-91  
 CHIEF BUREAU OF ENGINEERING

Eddy & Eckhardt o Architects  
 7912 C. Georgetowne Pkwy., Box 277, Great Falls, Virginia 22066 • 703-759-5500 • Fax: 703-759-5919  
 CIVIL ENGINEER  
 CAD-COR  
 3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
 703-280-2585 Fax 703-280-4640  
 STRUCTURAL ENGINEER  
 SWAG  
 209 Elden Street, 301 - Herndon, Virginia 22070  
 703-471-6800 Fax 703-742-3975  
 MECHANICAL/ELECTRICAL ENGINEER  
 Glassman Associates  
 1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
 703-790-1250 Fax 703-790-1257

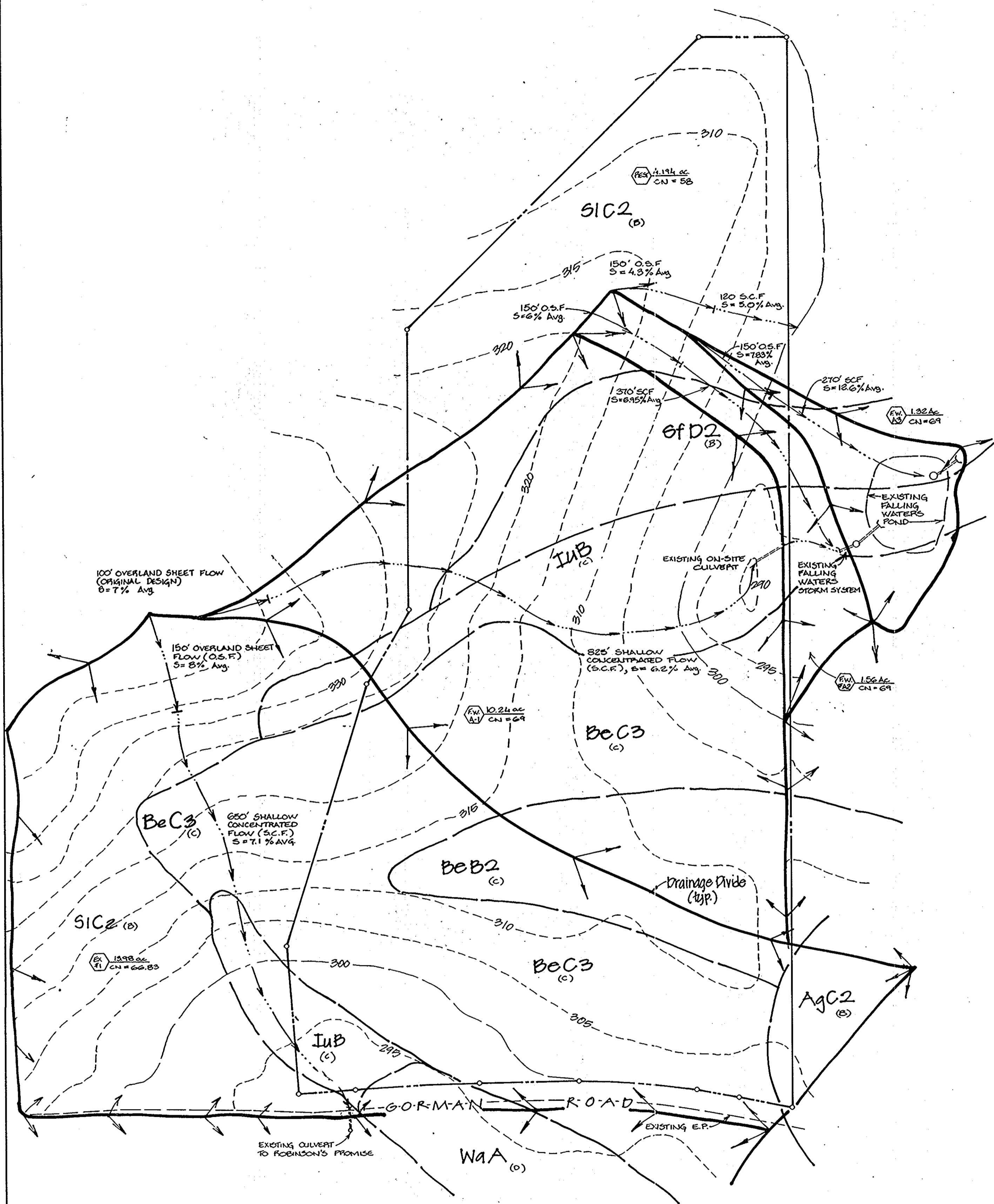
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
 Howard County, Maryland  
 Howard County Board of Education  
 101910 Route 108 Ellicott City Maryland 21043  
 Election District No. 6 Census Tract No. 6063  
 Tax Map 47  
 L.P.E.#: 2276 F.O.L.#: 0232  
 Water Code: 003 Sewer Code: 4100000  
 S.D.P.#: 81-80  
 Architect's Project No. 89181  
 C.C.T. Project No. 051-070  
 Storm Drain Profiles and Computations C-10  
 S.D.P.#: 91-80

These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

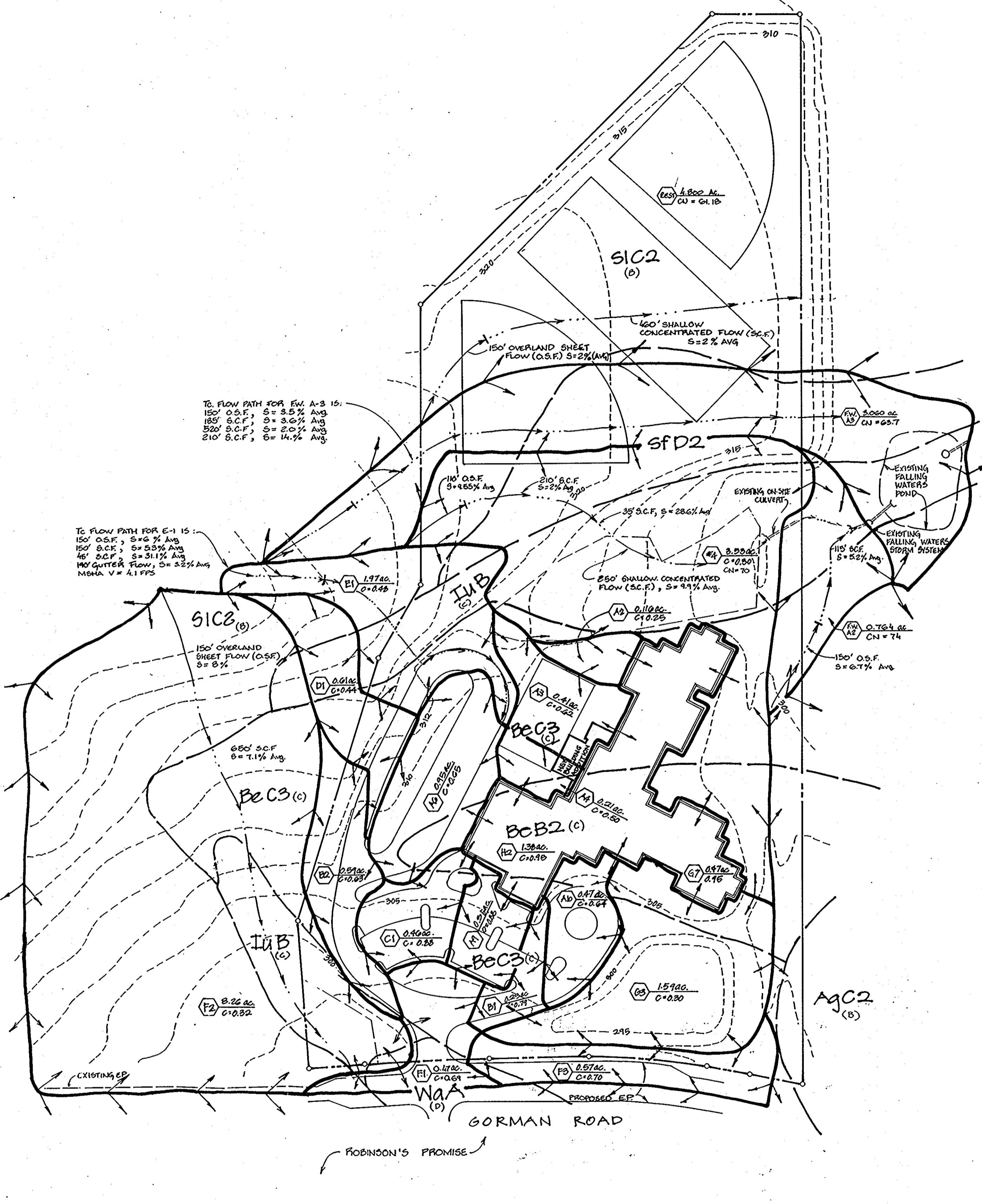
These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.

DATE	REVISION	BY
01-04-70		
21 DEC. 1970	H.C. 202660	
03-10-71		
04-12-71		
03-13-71		

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.



**SOILS & EXISTING DRAINAGE**  
1"=100'  
NORTH



**SOILS & PROPOSED DRAINAGE**  
1"=100'  
NORTH

NOTE: SOIL BOUNDARIES ARE ADJUSTED FROM SOIL SURVEY MAPS TO REFLECT ACTUAL FIELD CONDITIONS AS DETERMINED FROM THE WETLANDS REPORT. REFER TO DRAWINGS C-4 & C-5 FOR SOILS MAPPED @ 1"=50' AND TABULAR SOILS CHART.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*James M. Henderson* 4-25-91  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James M. Henderson* 4/29/91  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James M. Henderson* 4/25/91  
DIRECTOR (Acting) DATE

CHIEF BUREAU OF ENGINEERING DATE

**Eddy & Eckhardt Architects**  
2912 C Georgetown Pike • Box 477 • Great Falls Virginia 22066 • 703-759-5500 Fax: 759-5519

CIVIL ENGINEER  
CAD - CON  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWSG  
209 Elden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glasman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

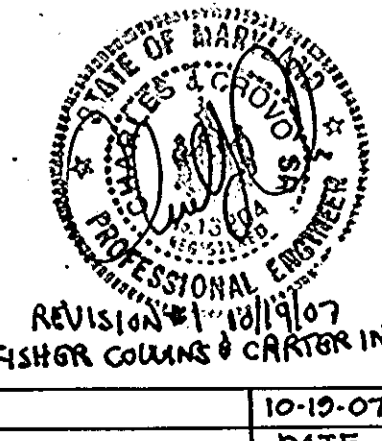
Howard County Board of Education  
101910 Route 108 Eillicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIBER: 2276 FOLIO: 0232  
Water Code: 003 Sewer Code: 0100000

SDP-91-80  
Architect's Project No. 89181

**Drainage Divide and Soils Maps** C-7

NO	REVISIONS	DATE
1	Added Building addition	10-19-07



# Erosion Control Narrative

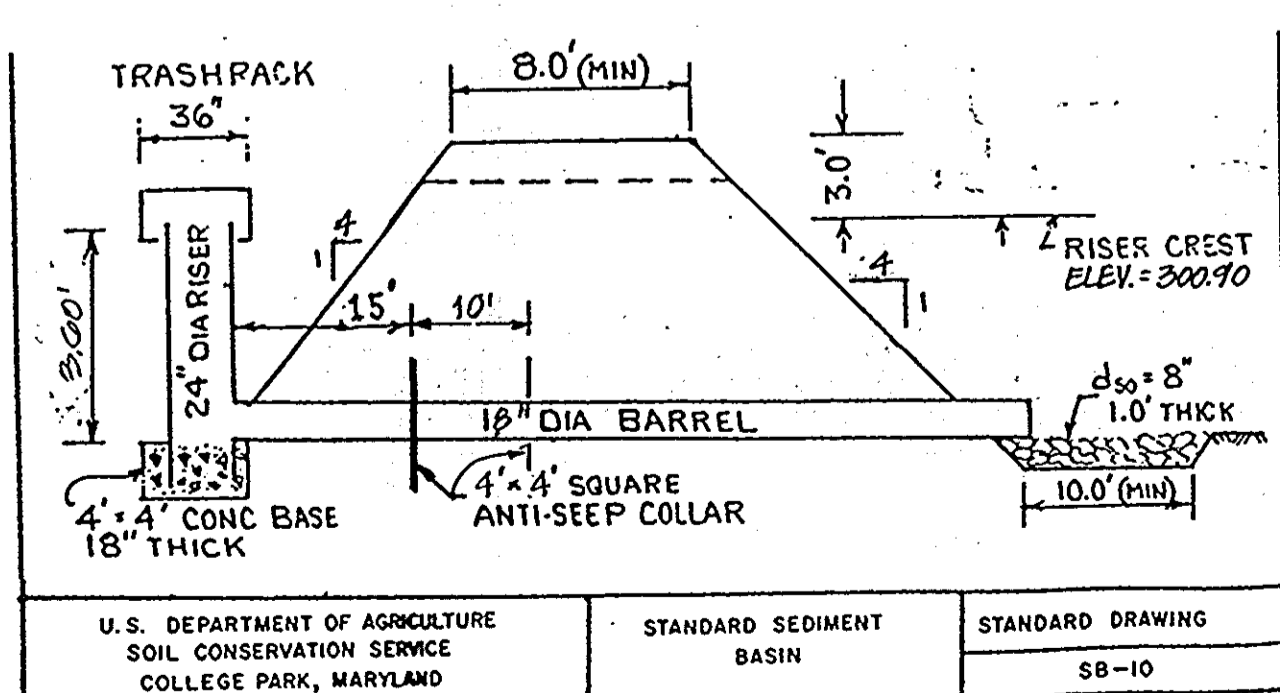
- GENERAL:**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (301-992-2437).
  - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
  - Following initial soil disturbance or redistribution, permanent or temporary sediment control structures, dikes, perimeter slopes and all slopes exceeding 3:1 and within fourteen calendar days for all other disturbed areas.
  - All sediment traps/basins to be fenced with warning signs posted at the perimeter in accordance with Volume I, 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 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for permanent seedings (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
  - All sediment control structures are to remain in place and to be maintained in operating condition until permission is obtained from the Howard County Sediment Control Inspector for their removal.
  - Total site area = 20.6 acres  
Area disturbed = 20.6 acres  
Areas to be roofed or paved = 5.61 acres  
Areas to be vegetatively stabilized = 14.42 acres  
Wetlands/Undisturbed = 0.57 acres  
Total cut = 90,000 cubic yards  
Total fill = 90,000 cubic yards  
Off-Site waste/borrow area location = Not required
  - Additional sediment controls may be required as deemed necessary by the Howard County DPM sediment control inspector.
  - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
  - Approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment control and prior to any other earth disturbing or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

- EROSION CONTROL SEQUENCE - ON-SITE:**
- Phase I**
- Install temporary construction entrance and silt fence along Gorman Road. Utilize existing gravel roadway for site access. Install perimeter silt fence in play field area. Construct stormwater management pond/sediment basin #1.
  - Excavate stormwater management pond/sediment basin #1.
  - Construct associated storm drainage system #1, riser and dewatering device.
  - Permanently stabilize sediment basin slopes. @ Wash #1 and #2.
  - Construct perimeter earth dike to divert off-site water and earth dikes to direct on-site run-off to sediment basin #1 and #2.
- Phase II**
- Maintain Phase I controls.
  - Repair, recompact and adjust earth dike directing run-off to sediment basin #2 daily during fill operations. Maintain dike in proper working condition.

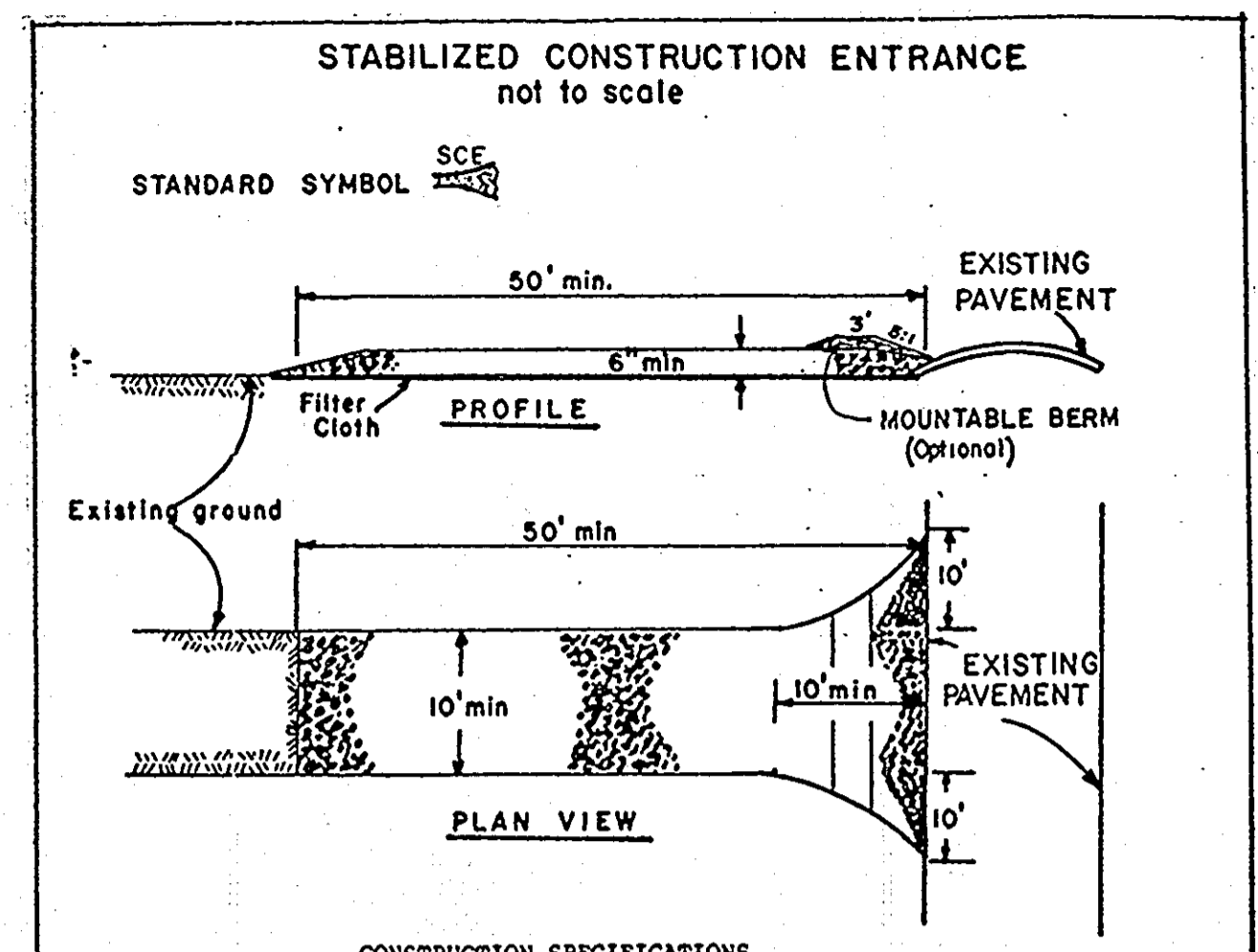
- Utilities**
- Limit open trench to three pipe lengths or to whatever can be stabilized within one day whichever is less.
- Removal**
- Remove sediment basin #2 after fill in the playfield area is placed, compacted and stabilized.
  - Maintain perimeter silt fence while filling sediment basin #2 area.
  - Permanently stabilize area disturbed by removal and filling of sediment basin #2.
  - Remove temporary controls when permission is obtained from Howard County Sediment Control Inspector.

- EROSION CONTROL SEQUENCE - RIGHT-OF-WAY:**
- Install sediment trap as indicated.
  - Construct storm sewer system.
  - Remove controls after permanent stabilization of all disturbed area.

- CONSTRUCTION SCHEDULE:**
- Install Phase I and II temporary sediment control devices. 3 weeks
  - Clear and rough grade. 4 weeks
  - Install utilities (water, sewer and storm sewer). 4 weeks
  - Construct building. 52 weeks
  - Stabilize with permanent vegetation and pavement. 4 weeks
  - Remove all sediment from temporary erosion control devices and permanently stabilize. 1 week
  - Convert temporary sediment basin #1 to stormwater management pond and permanently stabilize. 2 weeks
  - Remove all sediment control devices, repair and permanently stabilize disturbed areas resulting from removal. 2 weeks
- Total time for construction = 14 months



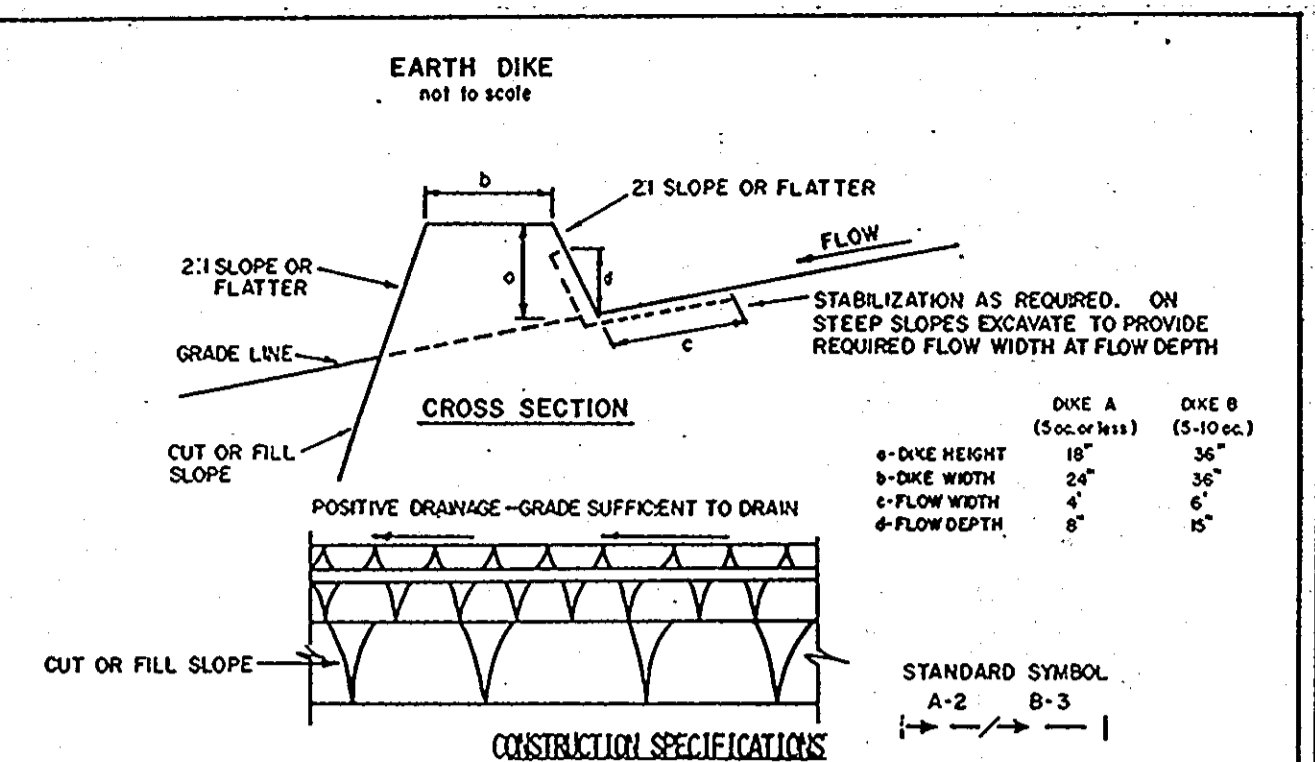
THIS DETAIL FOR SEDIMENT BASIN #2 ONLY.



**CONSTRUCTION SPECIFICATIONS**

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply). Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
- 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

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



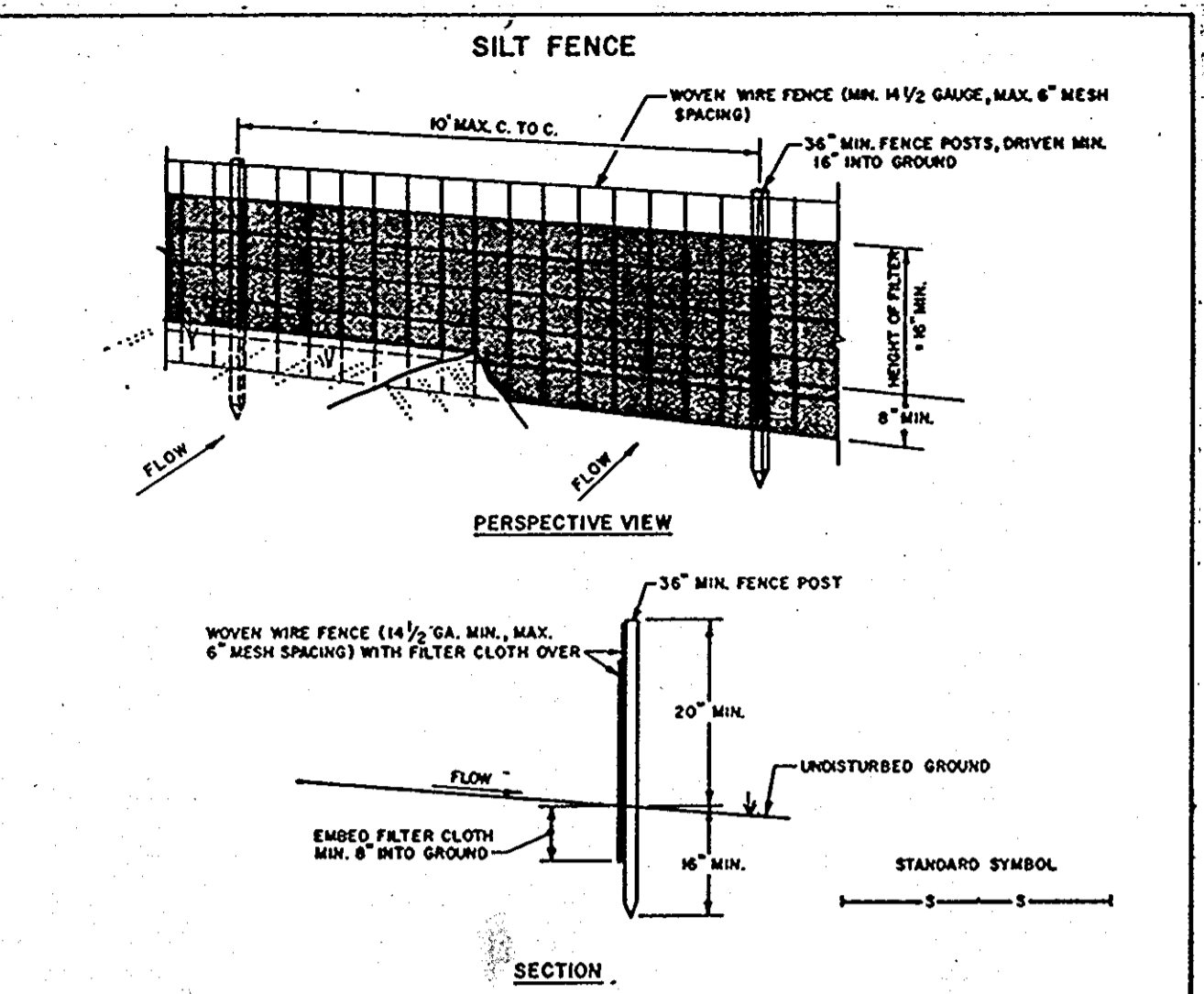
**CONSTRUCTION SPECIFICATIONS**

- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Field location should be adjusted as needed to utilize a stabilized safe outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. 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.
- Stabilization shall be: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL CODE	DIKE A	DIKE B
1	5-3-0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5-0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSTOR; SOOD; 2" STONE
3	5.1-8-0%	SEED WITH JUTE, OR SOOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.  
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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

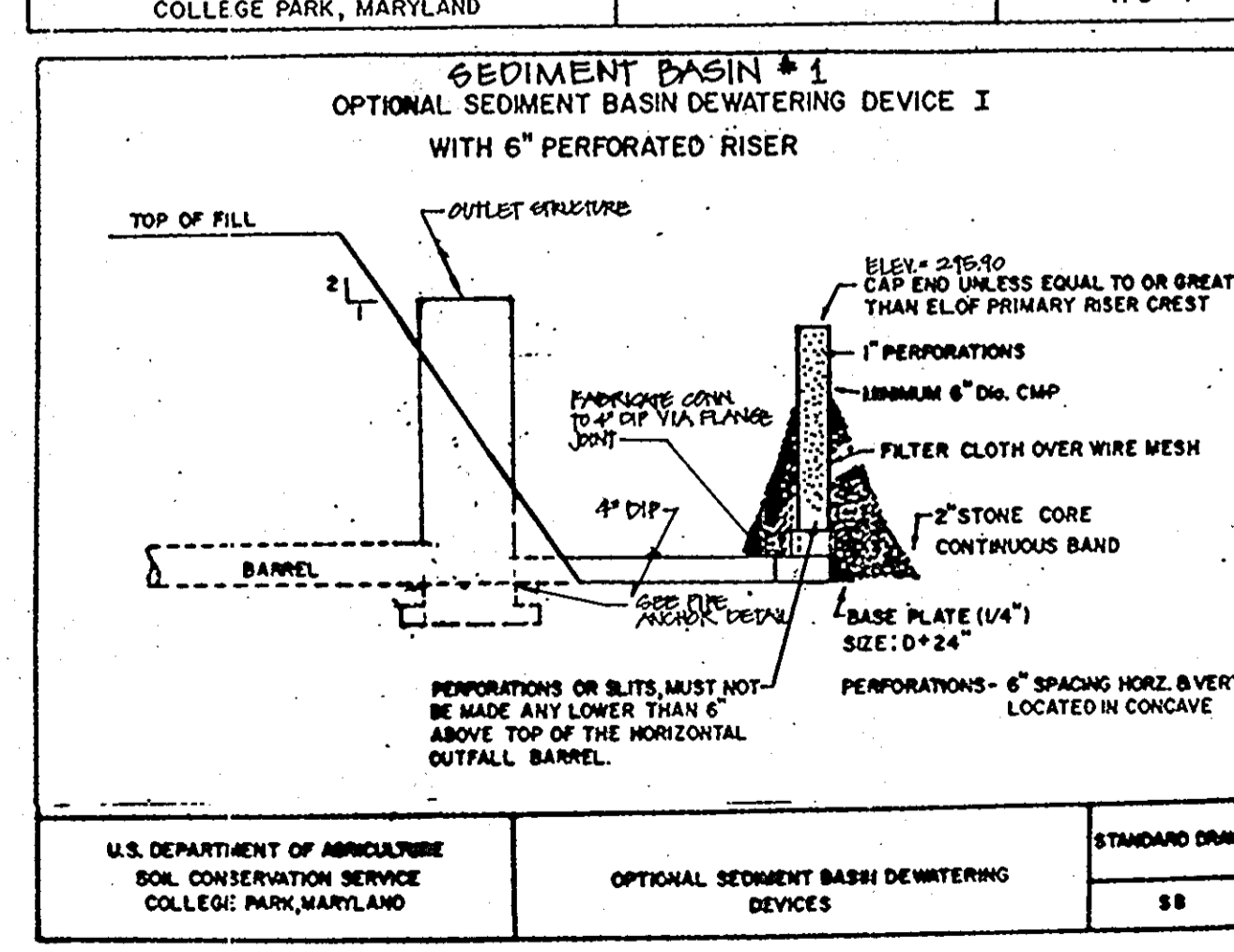
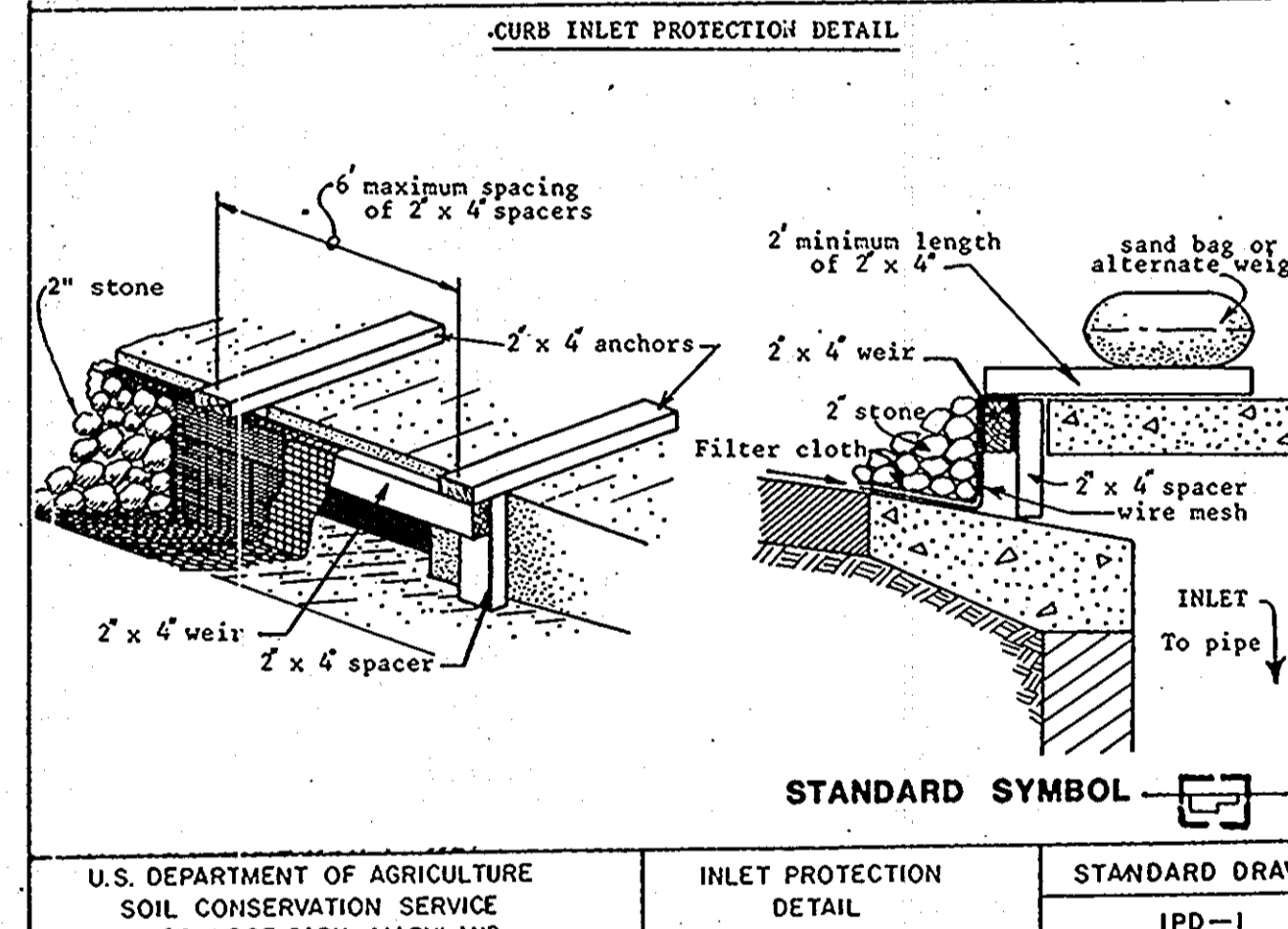


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

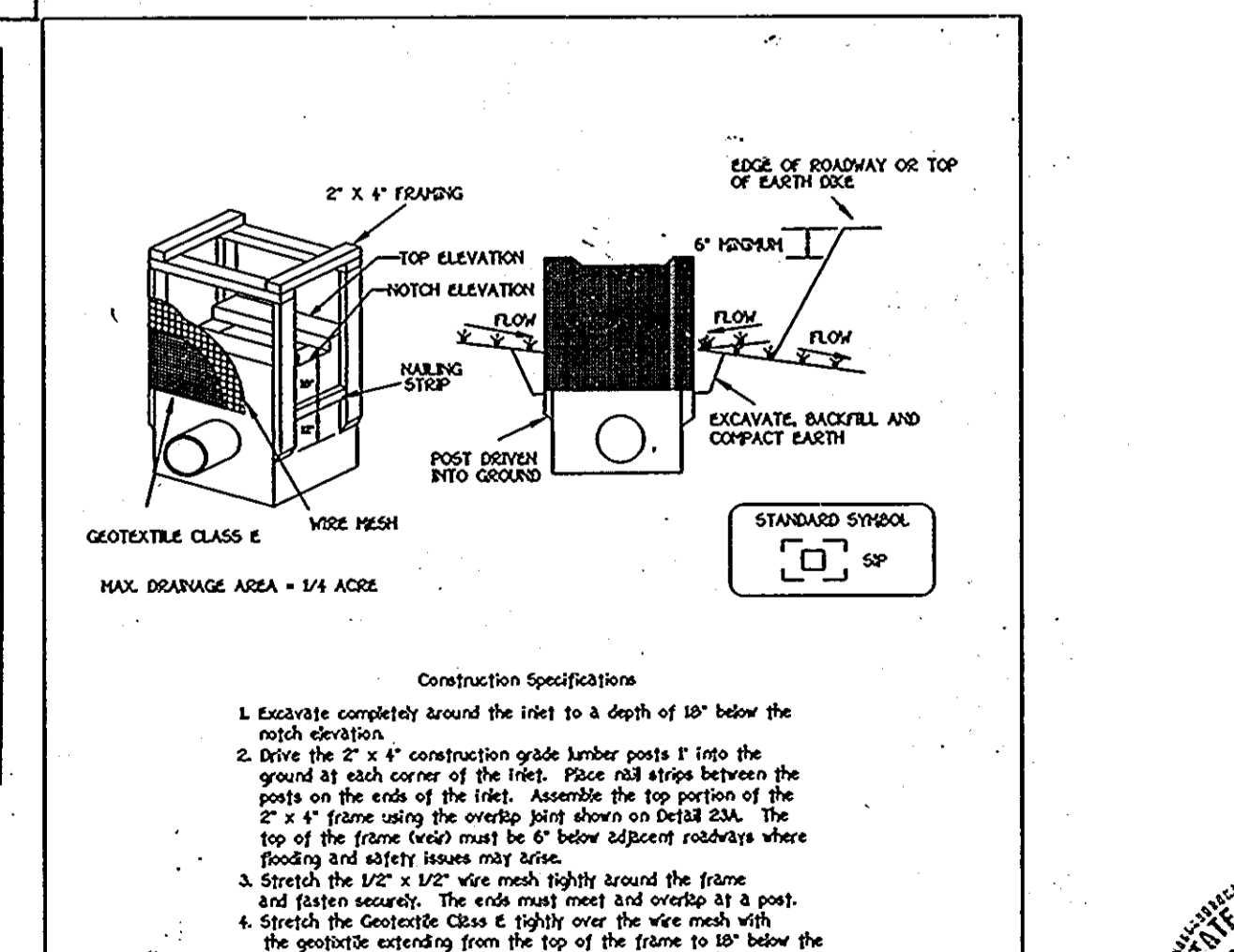
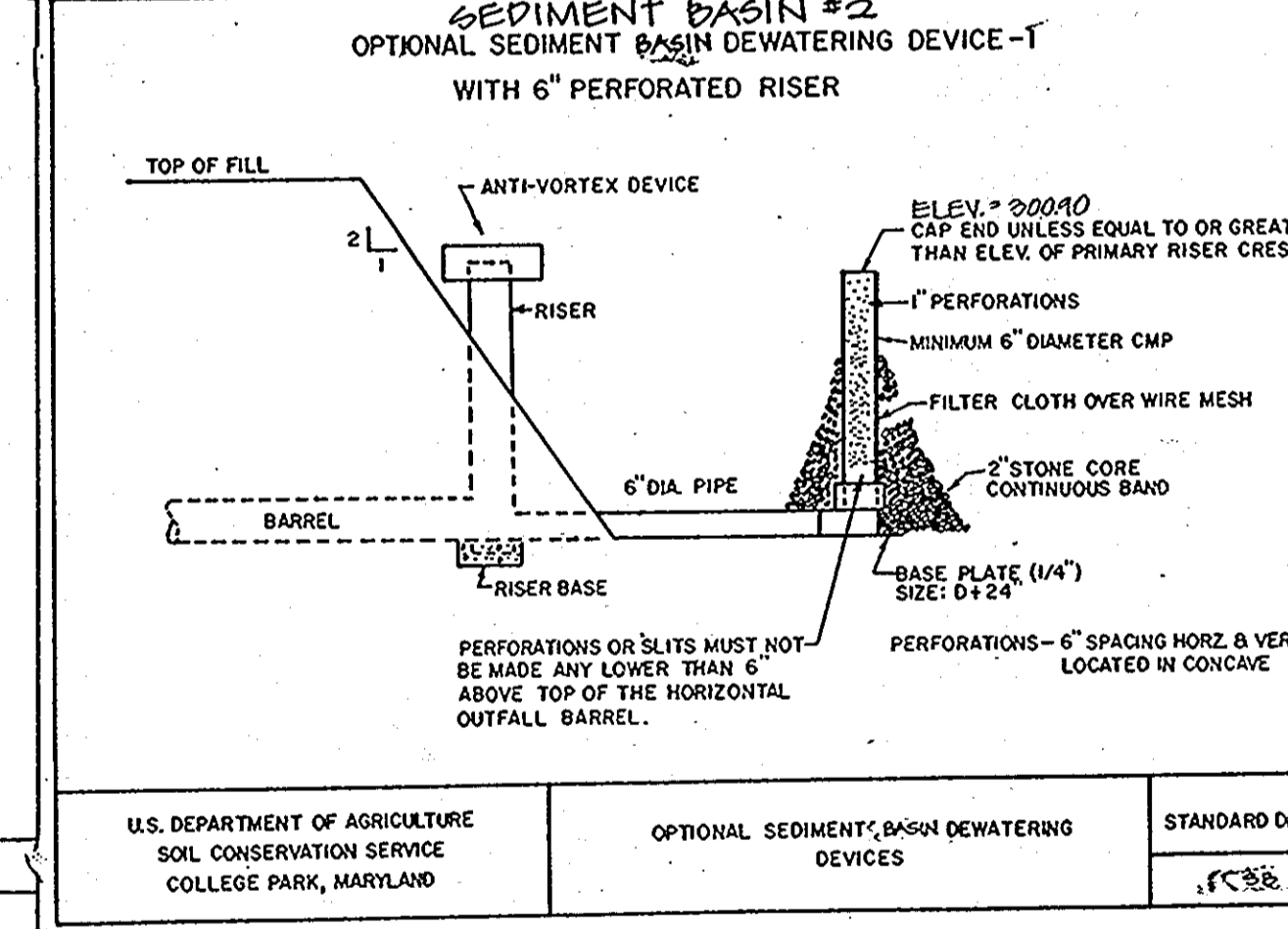
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- 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, 1/4" GA. 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFIL 1000, STABILINK 11400 OR APPROVED EQUAL  
PREFABRICATED UNIT: GEOPAB, DIVORFOCKE, OR APPROVED EQUAL

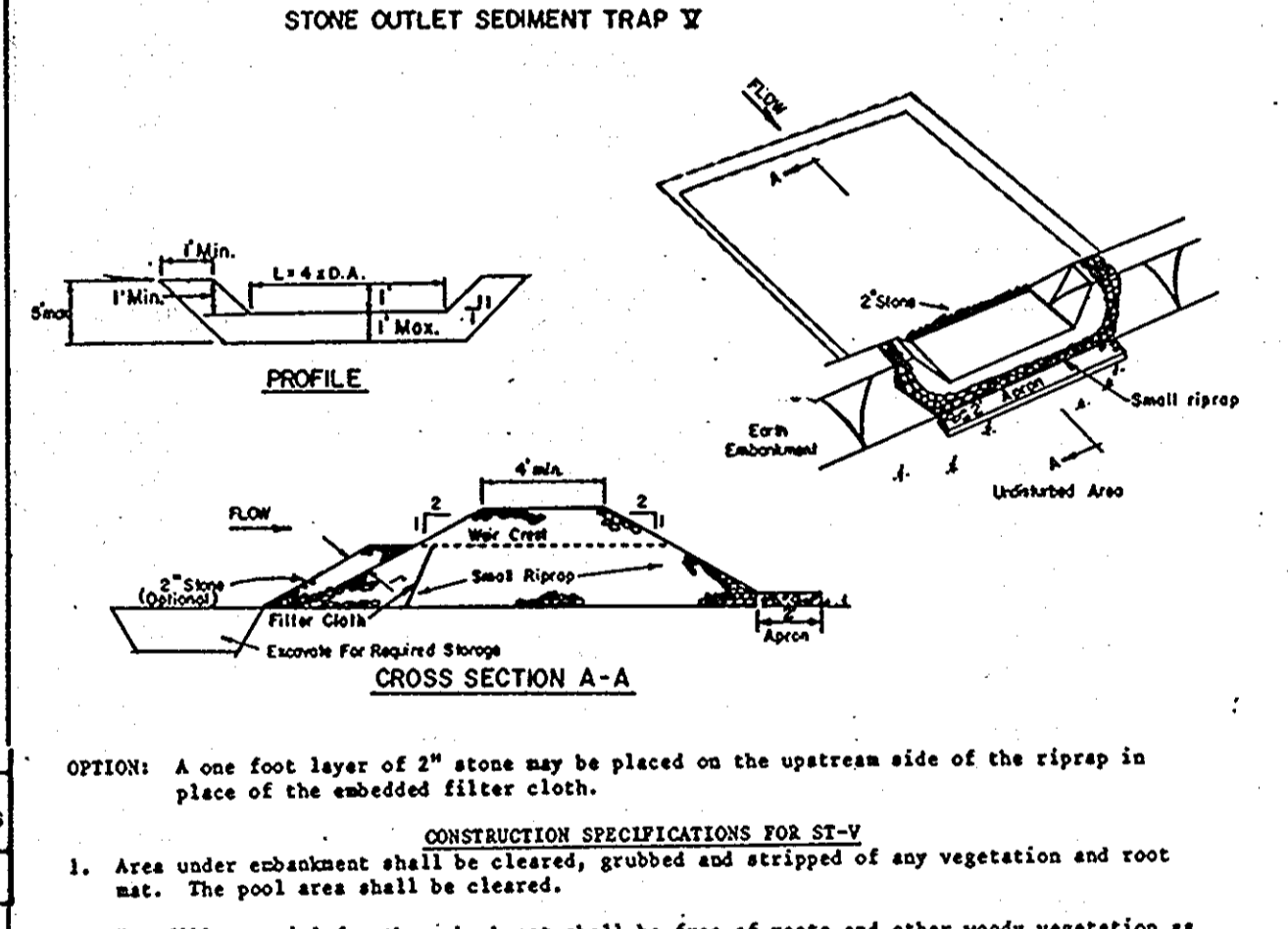
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-1
--	------------	--------------------------



STANDARD INLET PROTECTION



STANDARD INLET PROTECTION



**CONSTRUCTION SPECIFICATIONS FOR ST-V**

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be completed by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 3:1 or flatter.
- The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upgrade side on the small riprap on embedded filter cloth in the riprap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

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

DATE	REVISION	BY
01 DEC 1990	1	...
08-10-91	2	...
08-12-91	3	...
11-21-92	4	...

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

*J. M. Nelson* 11/16/91  
S. Soil Conservation District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*R. E. Ziehm* 11/16/91  
Howard Soil Conservation District

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

*J. M. Boyd* 11/25/91  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*James S. Rutter* 11/29/91  
DIRECTOR

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

*Paul J. Sapon* 11/25/91  
DIRECTOR (Acting)

*William E. S. Sapon* 11-25-91  
CHIEF BUREAU OF ENGINEERING

**Eddy & Eckhardt o Architects**  
9912-G Georgetown Pike • Box 477 • Great Falls, Virginia 22066 • 703-755-5500 Fax 703-755-5919

CIVIL ENGINEER  
CAD-CORP  
2025 Hamaker Court, Suite 201 • Fairfax, Virginia 22031  
703-280-2555 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWAG  
209 Eden Street • 301 • Herndon, Virginia 22070  
703-471-6800 Fax 703-472-3975

MECHANICAL/ELECTRICAL ENGINEER  
CLASSMAN ASSOCIATES  
1640 Spring Hill Road, Suite 300 • Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

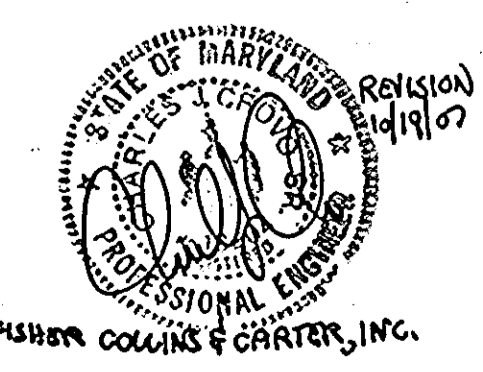
1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellittott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map #7  
LIBER: 2276 FOLIO: 0232  
Water Code: C03 Sewer Code: 0100000

Architect's Project No. 89181 CCF Project No. 051-050

**Erosion Control Details and Specifications** C-6



NO	1	Added standard inlet protection detail	10-19-07
		REVISIONS	Date

These documents have been prepared by Eddy & Eckhardt o Architects, Inc. in accordance with the terms of the contract. Reproduction is prohibited.

Matchline See Sht. C-5 for Continuation

Matchline See Sht. C-8 for Continuation

"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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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  
 Print name below signature  
 William Brown 4/12/91

"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 Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer Date  
 Print name below signature  
 Russell R. Smith 4/11/91

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.

Signature of District Engineer Date  
 Print name below signature  
 J. Helms 4/16/91

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

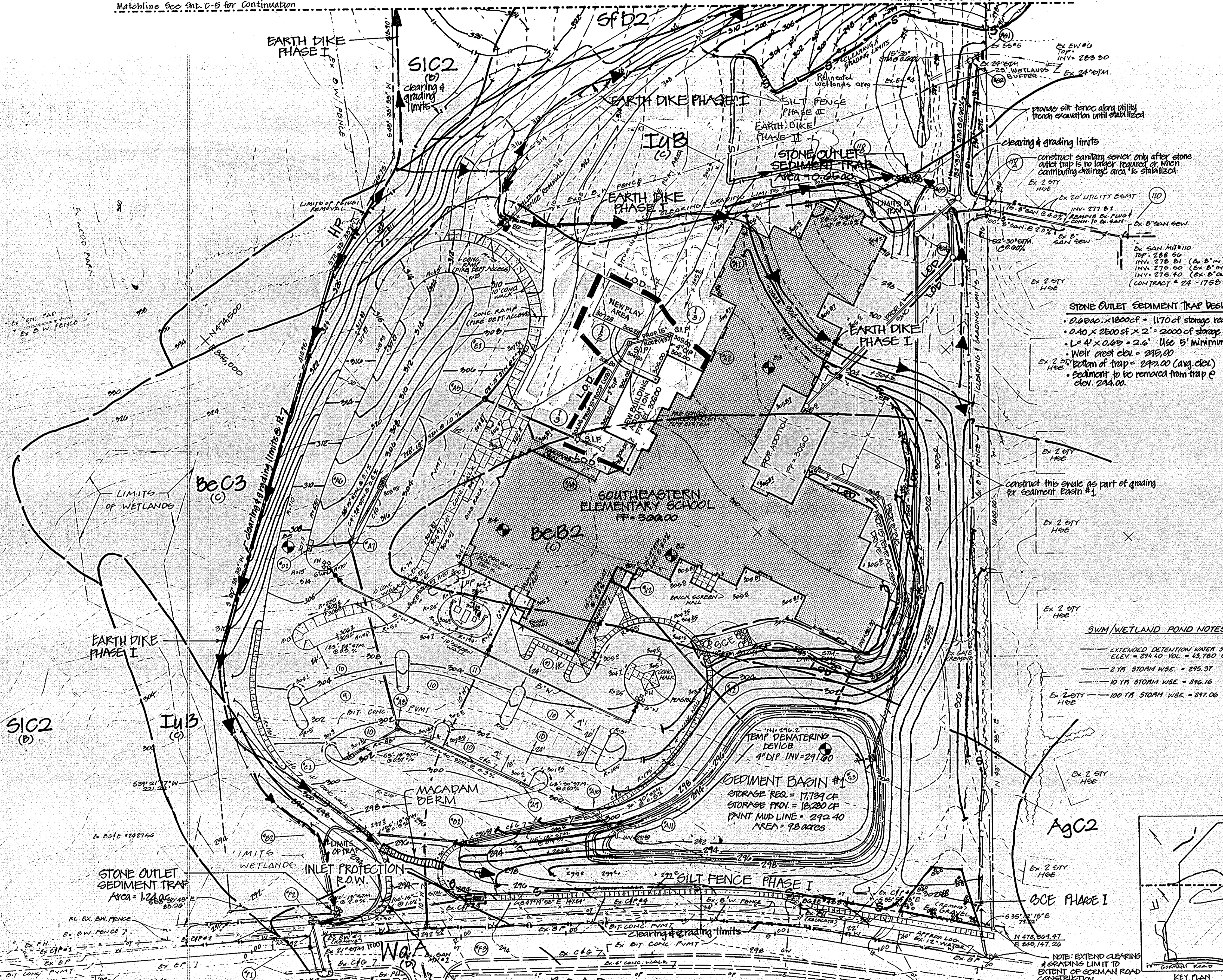
Signature of District Engineer Date  
 Print name below signature  
 Robert Ziehm 4/16/91

SOIL TYPE	SLOPE	HYDRIC	HYDRIC INCL	EROSIVE
BeC2				
Behavio silt loam	1-5%			✓
BeC3				
Behavio silt loam	5-10%			✓
IUB				
IUBa loam	1-5%	✓		
SFD2				
Sessifras gravelly sandy loam	10-15%			✓
SIC2				
Sessifras loam	5-10%			✓
WaA				
Wetchnng silt loam	0-3%	✓		
AgC2				
Aura gravelly loam	5-10%			✓

**CONSTRUCTION SEQUENCE FOR CLASSROOM ADDITION**

1. Obtain grading permit
2. Notify "Miss Utility" at least 48 hours before beginning work at 1-800-257-7777. Notify the Howard County Office of Construction/Inspection at 410-313-1330 24 hours before starting work.
3. Install sediment control measures shown on the plans: 1 week
4. Grade to subgrade classroom addition area.
5. Construct classroom addition: 9 months.
6. Fine grade disturbed areas and stabilize with permanent seeding
7. Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.

NO	Added building addition and play area REVISIONS	10-19-07 DATE
1		



EX. UTILITY DATA

STRUCTURE	IUP	INVERT
EW#1		288.20 (Elev. 21'00")
DI#2		286.40 (Elev. 21'00")
MH#3	291.80	282.90 (Elev. 30'00")
ES#4		282.20 (Elev. 30'00")
ES#5		287.20 (Elev. 24'00")
ES#5		283.50 (Elev. 24'00")
SANMH#1	291.80	279.80 (Elev. 8'00")

DD	REVISED BY	REVISED DATE	REVISION
24 SEP 1990	REVISION 2/24 H.C. 10/22/90	REVISION	PROJ. NO. 90-001
			REVISION AREA: 41-21-12
PERMIT 21 DEC. 1990	REVISION	REVISION	REVISION
DATE 02-19-91	REVISION	REVISION	REVISION

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.

Signature of District Engineer Date  
 Print name below signature  
 Robert Ziehm 4/16/91

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

Signature of Health Officer Date  
 Print name below signature  
 James M. Boyd 4-25-91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature of Director Date  
 Print name below signature  
 Joseph R. Smith 4/29/91

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

Signature of Director Date  
 Print name below signature  
 Russell R. Smith 4/25/91

**Eddy & Eckhardt Architects**  
 912 C. Georgetown Pike, Suite 477, Great Falls, Virginia 22066 • 703-759-5500 • Fax: 703-759-5519

CIVIL ENGINEER  
 CAD - C/IN  
 3025 Hamaker Court, Suite 201 • Fairfax, Virginia 22031  
 703-260-2545 Fax 703-260-4640

STRUCTURAL ENGINEER  
 SWNG  
 209 Elden Street, 301 • Herndon, Virginia 22070  
 703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
 Classroom Associates  
 1600 Spring Hill Road, Suite 300 • Vienna, Virginia 22180  
 703-790-1250 Fax 703-790-1257

1992 SOUTHEASTERN ELEMENTARY SCHOOL  
 Howard County, Maryland

Howard County Board of Education  
 101910 Route 108 Ellicott City Maryland 21043

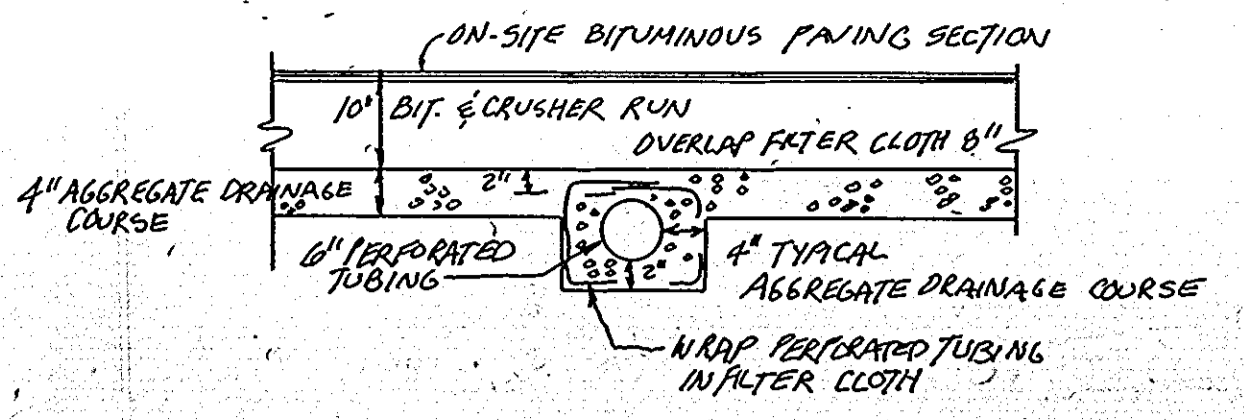
Election District No. 6 Census Tract No. 6063  
 Tax Map 47  
 LIBER: 2270 FOLIO: 0232  
 Water Code: 003 Sewer Code: 010000

Architect's Project No. 89181 CCE Project No. 091000

**Erosion Control Plan** C-4

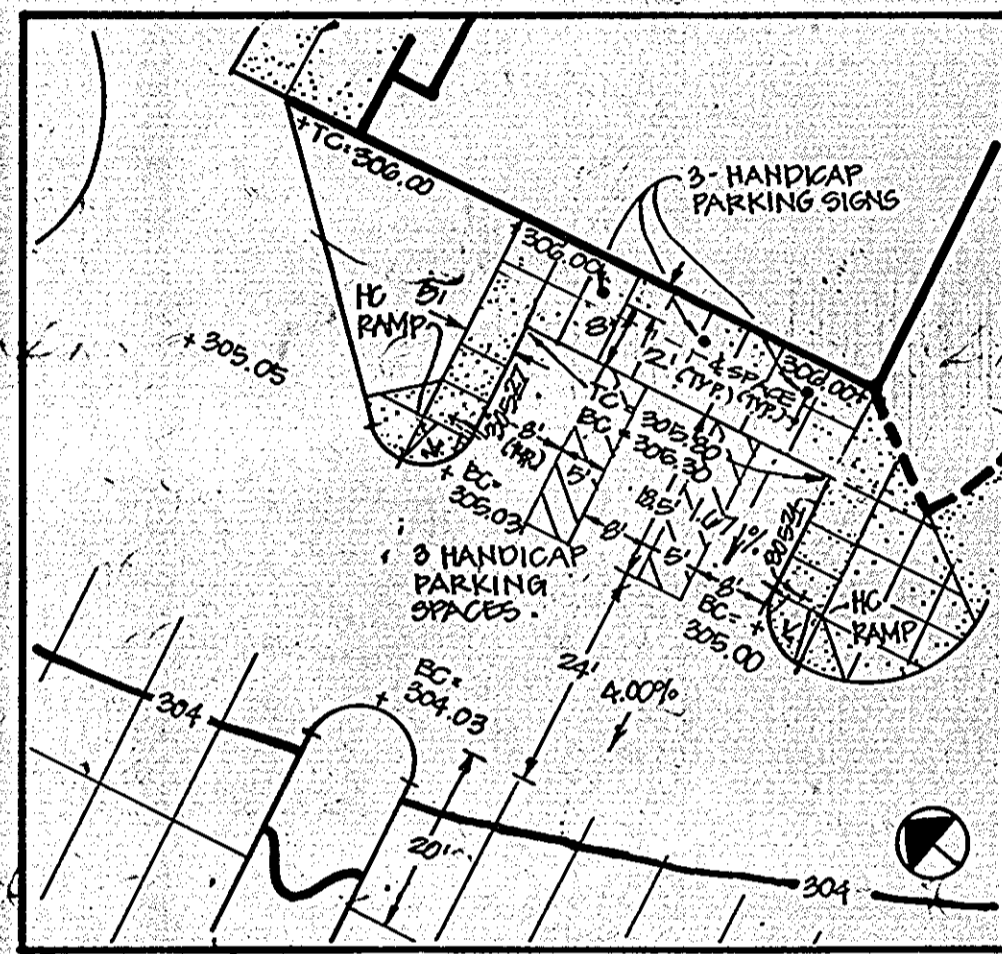
SDP-91-80

THIS PLAN FOR EROSION & SEDIMENT CONTROL ONLY. DO NOT USE FOR OTHER PERMANENT SITE IMPROVEMENTS !!

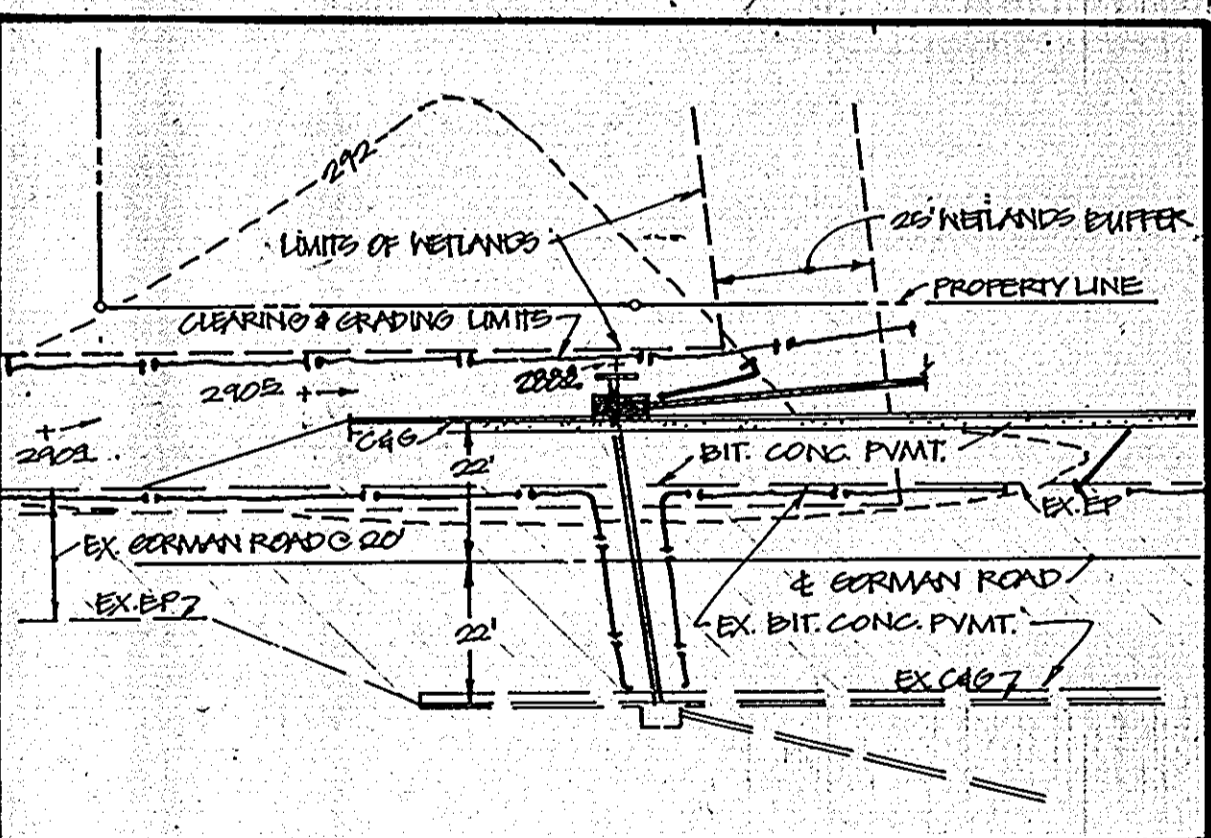


NOTE:  
INSTALL PERFORATED TUBING (CORRUGATED POLYETHYLENE OR PVC) ALONG JUNCTION OF ON-SITE PAVING AND HOWARD COUNTY STANDARD P-S PAVEMENT SECTION USED IN RIGHT-OF-WAY. DAYLIGHT END OF TUBING AS SHOWN ON SITE PLAN.

PAVEMENT JUNCTION DRAINAGE DETAIL  
NO SCALE



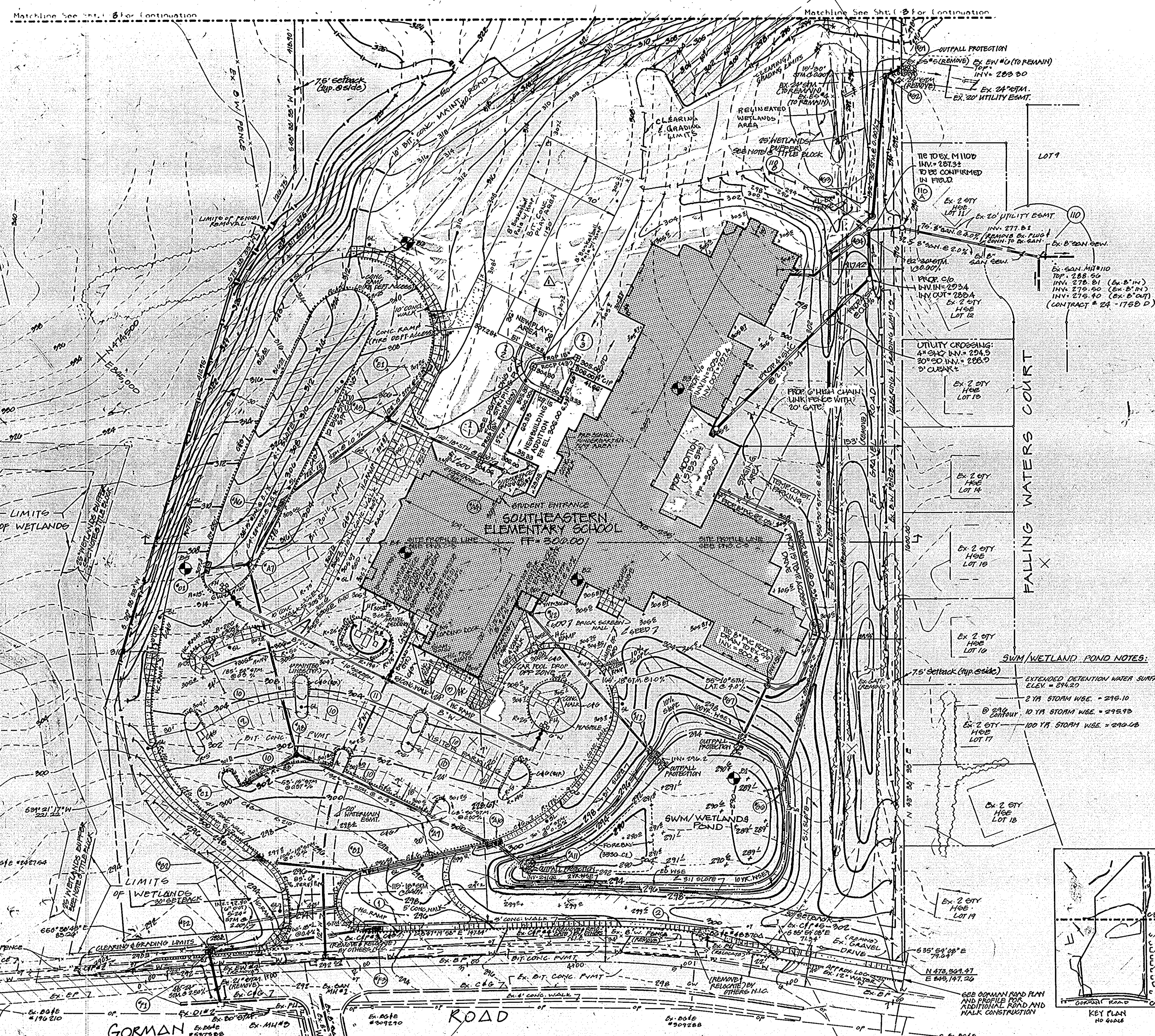
HANDICAP PARKING/GRADING DETAIL  
SCALE: 1" = 20'-0"



RIGHT-OF-WAY STORM DRAINAGE DETAIL  
SCALE 1" = 20'

- NOTES:
1. Parking Area lighting will be directed away from all residential areas and rights-of-way.
  2. Street lighting will be provided on relocated C/P poles. 150-watt HPS pendants to be mounted on 25' high poles.
  3. Coordinate site lighting with electrical drawing SE-1.
  4. Coordinate geometry for building corners (2) and centerline for bus drop loop, entrance road & car pool drop will be provided.

NO	REVISIONS	DATE
1	Added building addition and play area	10-19-07



EX. UTILITY DATA		
STRUCTURE	TOP	INVERT
EW*1		288.20 (Ex. 21'0"U)
DI*2		286.40 (Ex. 21'1")
		284.80 (Ex. 30'0"U)
MH*3	291.80	282.90 (Ex. 30'1")
		282.20 (Ex. 30'0"U)
ES*4		287.20 (Ex. 24'0"U)
ES*5		283.50 (Ex. 24'0"U)
SANMH*1	291.80	279.00 (Ex. 8'0"U)

**INFORMATION ON THIS DRAWING IS TO BE USED FOR BID PACKAGES 3A AND 5A ONLY.**

SEE ARCHITECTURAL DRAWINGS FOR CONCRETE WALK SCORING AND LAYOUT REQUIREMENTS @ CAR POOL DROP OFF ZONE, DUMPSTER PAD, BUS DROP OFF ZONE, KINDERGARTEN PLAY, TEACHERS LOUNGE AREA, EQUIPMENT ENCLOSURE, EXIT DOOR PADS/COVERED WALKS AND RELATED WALLS AND BOLLARDS.

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

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.  
*James M. Hahn* 4/16/91  
S. Soil Conservation District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
*Rhonda Fisher* 4/16/91  
Howard Soil Conservation District

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

*James M. Hahn* 4-25-91  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Joseph R. Butler* 4/29/91  
DIRECTOR

*James L. V. ...* 4/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND-USE DEVELOPMENT

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

*Donald J. ...* 4/25/91  
DIRECTOR (Acting)

*...* 4-28-91  
CHIEF BUREAU OF ENGINEERING

**Eddy & Eckhardt Architects**  
9312 Georgeann Pike • Box 477 • Great Falls, Virginia 22066 • 703.759.5500 • Fax 759.5519

CIVIL ENGINEER  
CAD - C/IN  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-4640

STRUCTURAL ENGINEER  
SWNSG  
209 Eiden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Chesman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

**1992 SOUTHEASTERN ELEMENTARY SCHOOL**  
Howard County, Maryland

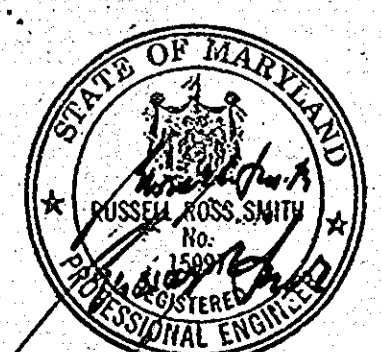
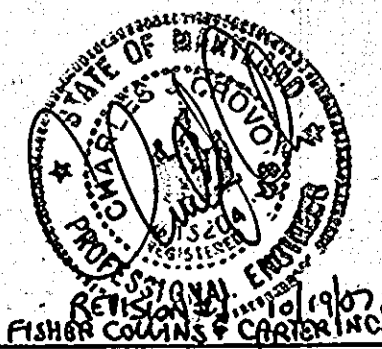
Howard County Board of Education  
101910 Route 108 - Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Water Code: C03 Sewer Code: G100000

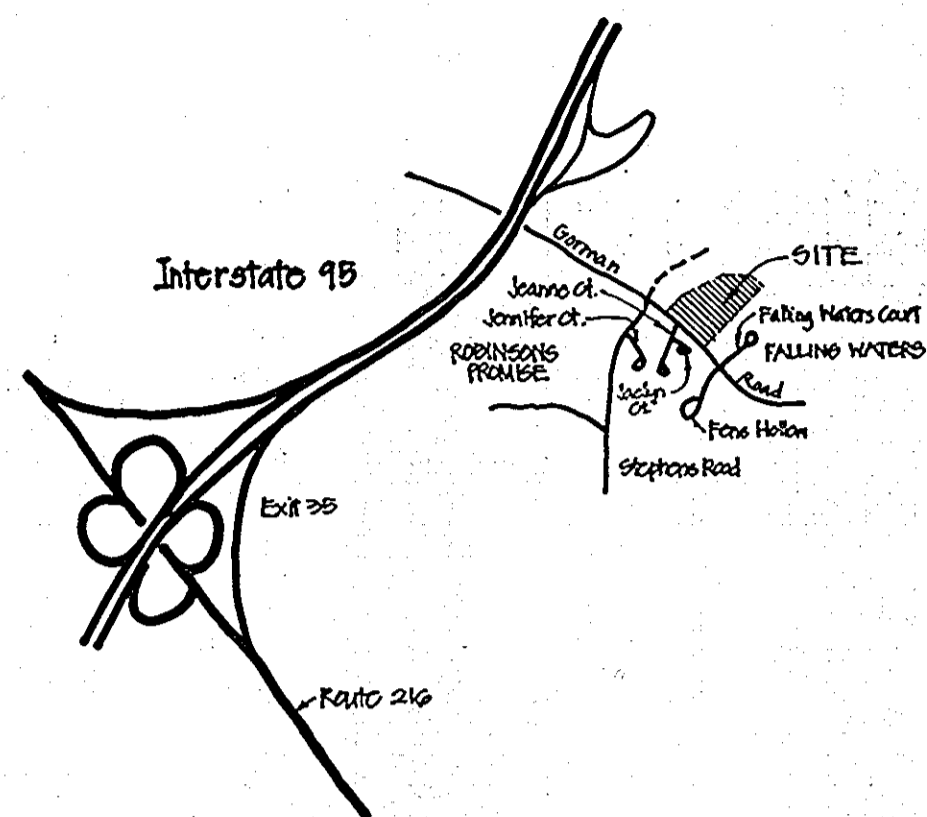
Architect's Project No. 89181  
SDP-91-80

**Site Plan** C-2

SDP-91-80

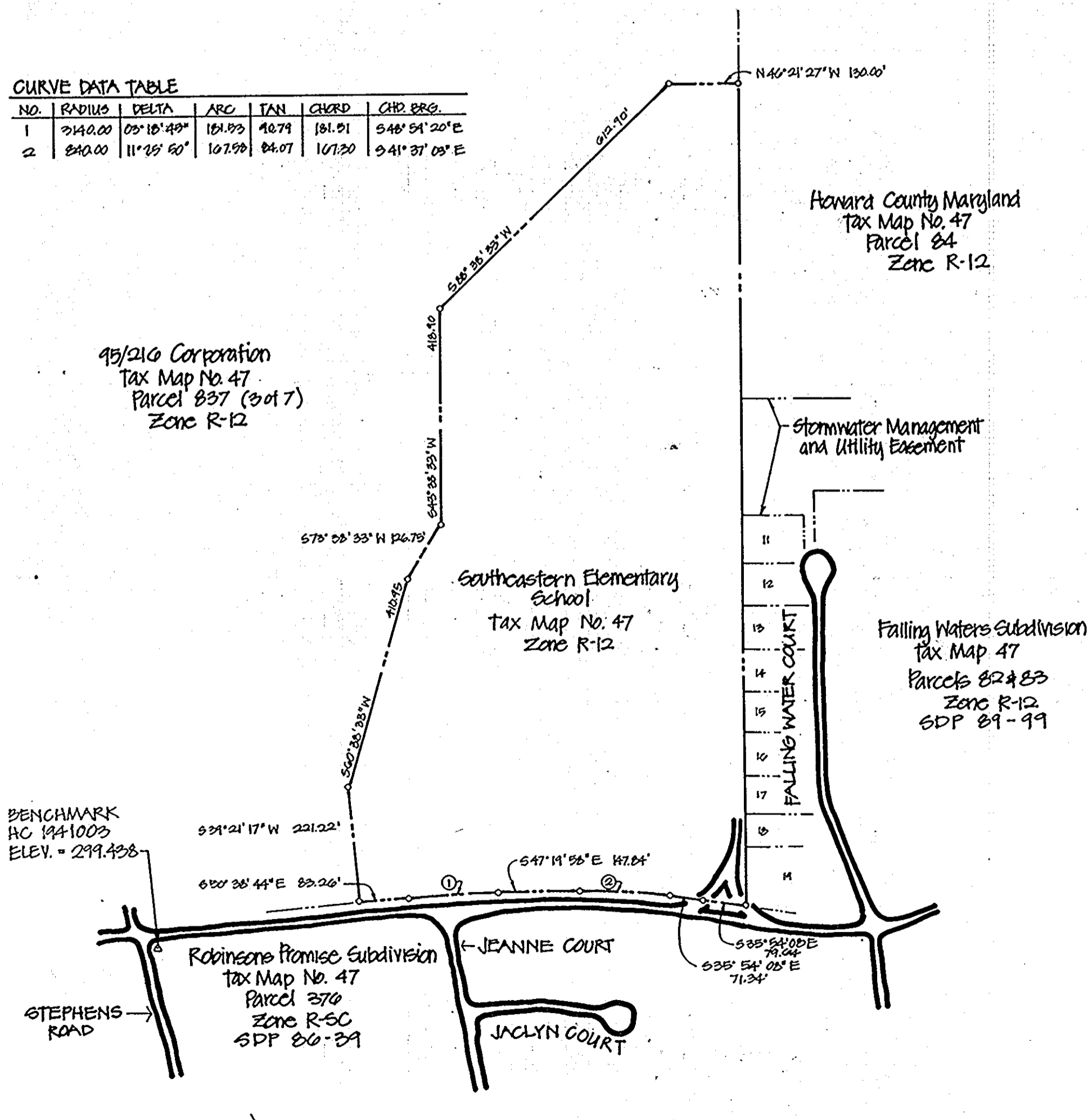


These documents have been prepared specifically for the project named on the title block of this sheet. They are not suitable for use on other projects or in other locations without approval and participation of the architect. Reproduction is prohibited.



VICINITY MAP  
1" = 2000' NORTH

NO.	RADIUS	DELTA	ARC	TAN	CHORD	CH2 BRG.
1	2440.00	09°18'49"	164.893	40.791	181.91	548°54'20"E
2	2800.00	11°25'50"	107.999	26.07	107.00	94°37'08"E



SITE LOCATION MAP  
1" = 200' NORTH

### Legend

ITEM	NEW	EXISTING
PROPERTY LINE	---	---
SPOT ELEVATIONS	+358'	
CONTOURS	34	34
BUILDINGS	[Symbol]	[Symbol]
BITUMINOUS PAVING	[Symbol]	[Symbol]
CONCRETE PAVING & WALKS	[Symbol]	[Symbol]
CONCRETE CURB & GUTTER	[Symbol]	[Symbol]
SANITARY SEWER (MANHOLE)	[Symbol]	[Symbol]
STORM SEWER (STRUCTURE)	[Symbol]	[Symbol]
OVERHEAD POWER LINE (POLE)	[Symbol]	[Symbol]
OVERHEAD TELEPHONE LINE (POLE)	[Symbol]	[Symbol]
POLE GUY WIRE (ANCHOR)	[Symbol]	[Symbol]
UNDERGROUND POWER LINE	[Symbol]	[Symbol]
UNDERGROUND TELEPHONE LINE	[Symbol]	[Symbol]
SITE LIGHT/FLOOD LIGHT	[Symbol]	[Symbol]
WATER MAIN	[Symbol]	[Symbol]
FIRE HYDRANT (VALVE)	[Symbol]	[Symbol]
GAS MAIN	[Symbol]	[Symbol]
UNDERGROUND OIL/FUEL STORAGE TANK	[Symbol]	[Symbol]
STEPS	[Symbol]	[Symbol]
TREES/SHRUBS	[Symbol]	[Symbol]
WOODED AREA	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
SOIL BORING	[Symbol]	[Symbol]
PERC TEST	[Symbol]	[Symbol]
SIAMENSE CONNECTION	[Symbol]	[Symbol]
PROPERTY CORNER	[Symbol]	[Symbol]
TRANSVERSE STATION	[Symbol]	[Symbol]
CONCRETE MONUMENT	[Symbol]	[Symbol]

### Abbreviations

&	AND
@	AT
AN	AS NOTED
APPROX	APPROXIMATE
B	BORING
BG&E	BALTIMORE GAS & ELECTRIC
BIT	BITUMINOUS
BM	BENCH MARK
BLDG	BUILDING
C&G	CURB AND GUTTER
CB	CONCRETE BUTTRESS
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTRACT
CONST	CONSTRUCTION
DI	DROP INLET
DIP	DUCTILE IRON PIPE
E	EAST
EA	EACH
EL	ELEVATION ABOVE SEA LEVEL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	END SECTION
ESMT.	EASEMENT
EX	EXISTING
FF	FINISHED FLOOR
FH	FIRE HYDRANT
G	NATURAL GAS
GAL	GALLON
GPH	GALLONS PER MINUTE
HB	HORIZONTAL BEND
INCLUD.	INCLUDING
INV	INVERT
L	LENGTH OF CURVE
LAT	LATERAL
LF	LINEAR FOOT
LOC	LOCATION
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NA	NOT APPLICABLE
NO	NUMBER
OP	OVERHEAD POWER
OP&T	OVERHEAD POWER AND TELEPHONE
OT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PVMT	POINT OF TANGENCY
R	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
REV	REVISION
S	SOUTH
SAN	SANITARY
SDP	SITE DEVELOPMENT PLAN
SEW	SEWER
SH	SHEET
SHI	SANITARY MANHOLE
STA	STATION
STM	STORM
T	TANGENT
TB	TEST BORING
TELE	TELEPHONE
TP	TEST PIT
TRANS	TRANSFORMER
TS&V	TAPPING SLEEVE & VALVE
TYP	TYPICAL
UP	UNDERGROUND POWER
UT	UNDERGROUND TELEPHONE
V	VALVE
W	WATER
W	WEST
W	WITH
WF	WIRE FENCE
WM	WATER MAIN
W/O	WITH OUT

### General Notes

- OWNER: HOWARD COUNTY BOARD OF EDUCATION
- USE: SOUTHEASTERN ELEMENTARY SCHOOL
- TAX MAP: 47, PARCEL TO BE DETERMINED
- TOTAL SITE AREA: 20.851 ACRES OR 909,200.00 SQUARE FEET  
RIGHT OF WAY DEDICATION: 0.673 ACRES OR 29,345.00 SQUARE FEET  
REMAINING SITE AREA AFTER DEDICATION: 20.178 ACRES OR 878,499.00 SQUARE FEET
- ZONING: R-12
- BUILDING SQUARE FOOTAGE: 76,501 GSF
- OCCUPANCY:
 

TEACHERS	78
TEACHERS AIDE	12
SECRETARIAL/JANITORIAL	8
TOTAL STAFF	98
TOTAL STUDENTS	564
- PARKING REQUIREMENTS (PER HOWARD COUNTY BOARD OF EDUCATION):
 

HANDICAP	3
STANDARD	80
TOTAL	83
- BUILDING COVERAGE: 76,501 ÷ 878,953 = 8.70 %
- GREEN SPACE:
 

BUILDING AREA:	76,501 SF. OR 1.756 ACRES = 8.70%
ROADS AND PARKING:	163,742 SF. OR 3.759 ACRES = 16.95%
GREEN SPACE:	632,110 SF. OR 14.662 ACRES = 72.67%
SITE AREA:	878,499 SF. OR 20.178 ACRES
- BUILDING SETBACKS: FROM PRINCIPAL OR INTERMEDIATE ARTERIAL: 30'  
SIDE YARD: 7.5'  
REAR YARD: 30'
- SITE IS OPEN PASTURE WITH EXCEPTION OF WETLANDS. REFER TO WETLANDS REPORT FOR PLANT MATERIAL COMMUNITIES AND SPECIES.
- ALL BUILDING ROOF DRAINS DISCHARGE INTO STORMWATER MANAGEMENT POND.
- STORMWATER MANAGEMENT POND WILL BE A WET POND.
- PARKING AREA WILL BE LIGHTED. ALL LIGHTS WILL BE DIRECTED AWAY FROM RESIDENTIAL AREAS AND RIGHTS-OF-WAY.
- CONSTRUCTION STANDARDS:
  - CONCRETE WALK TO BE IN ACCORDANCE WITH STANDARD DETAIL R-3.05.
  - CONCRETE CURB TO BE IN ACCORDANCE WITH STANDARD DETAIL R-3.03.
- DRAINAGE AREA: MIDDLE PATUXENT.
- WAVEYER FOR CONSTRUCTION & GRADING WITHIN THE WETLANDS BUFFER, WP-91-102, GRANTED APRIL 4, 1991 PER SECTION 16.110 (C)(2).

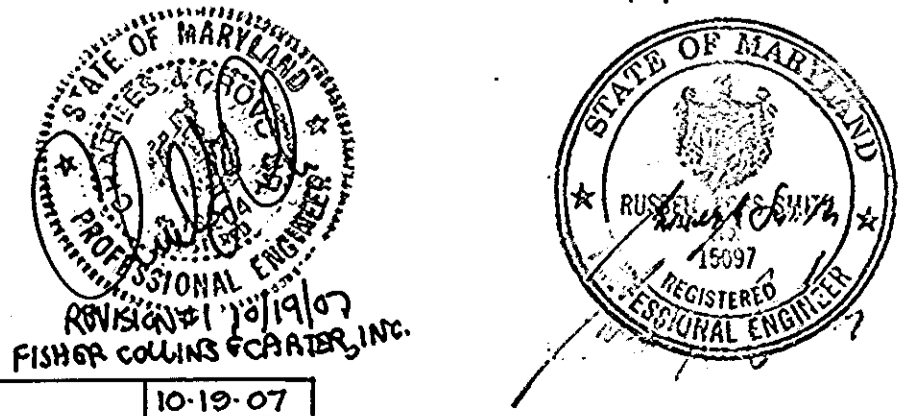
### Sheet Index

C-1	COVER SHEET
C-2	SITE PLAN
C-3	SITE PLAN
C-4	EROSION CONTROL PLAN
C-5	EROSION CONTROL PLAN
C-6	EROSION
C-7	DRAINAGE DIVIDE AND SOILS MAPS
C-8	GORMAN ROAD PLAN AND PROFILE
C-9	GORMAN ROAD PLAN AND PROFILE
C-10	STORM SEWER PROFILES AND COMPUTATIONS
C-11	SNM PROFILES, DETAILS AND SPECIFICATIONS
C-12	BUILDING ELEVATIONS
C-13	SITE DETAILS
C-14	SITE DETAILS
L-1	LANDSCAPE PLAN

\* NOTE: BID PAGES INCLUDE NEW SANITARY SEWER AND WATER MAIN PLAN & PROFILE DRAWINGS 1 of 2 and 2 of 2.

### Benchmark Data

STATION	ELEVATION	COORDINATE X	COORDINATE Y
1941001	107.19	111.270	111.270
1941002	107.40	111.270	111.270
1941003	107.40	111.270	111.270
1941004	107.40	111.270	111.270
1941005	107.40	111.270	111.270
1941006	107.40	111.270	111.270
1941007	107.40	111.270	111.270
1941008	107.40	111.270	111.270
1941009	107.40	111.270	111.270
1941010	107.40	111.270	111.270
1941011	107.40	111.270	111.270
1941012	107.40	111.270	111.270
1941013	107.40	111.270	111.270
1941014	107.40	111.270	111.270
1941015	107.40	111.270	111.270
1941016	107.40	111.270	111.270
1941017	107.40	111.270	111.270
1941018	107.40	111.270	111.270
1941019	107.40	111.270	111.270
1941020	107.40	111.270	111.270
1941021	107.40	111.270	111.270
1941022	107.40	111.270	111.270
1941023	107.40	111.270	111.270
1941024	107.40	111.270	111.270
1941025	107.40	111.270	111.270
1941026	107.40	111.270	111.270
1941027	107.40	111.270	111.270
1941028	107.40	111.270	111.270
1941029	107.40	111.270	111.270
1941030	107.40	111.270	111.270



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
Bldg # 1	9650 Gorman Road
SUBDIVISION NAME	SECT./AREA LOT/PARCEL #
Na	Na
PLAT # OR L/F BLOCK #	ZONE
Na	R-12
WATER CODE	SEWER CODE
003	010000

DATE	REVISION	BY
01-04-90		
03-15-91		
01 DEC 1990	ADD No. 1-5th	
03-27-91		
04-12-91		

THESE DRAWINGS DO NOT AUTHORIZE WORK IN THE WETLANDS BUFFER AREA. NO SUCH WORK SHALL BEGIN UNTIL DNR APPROVAL IS OBTAINED. PERMIT NUMBERS WILL BE ADDED BY REDLINE WHEN PERMITS ARE OBTAINED.

GENERAL NOTE  
The building permit for the new building addition must be applied for with the Department of Inspections, Licenses and Permits within one year from the approval date of the Red Line Revision.

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

*Jayme M. Boyd* 4-25-91  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*Jessie R. Hite* 4/29/91  
DIRECTOR DATE

*Thomas J. H. Lough* 4/29/91  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*Russell J. Seaman* 4/25/91  
DIRECTOR (Acting) DATE

*Robert A. ...* 4/25/91  
CHIEF BUREAU OF ENGINEERING DATE

Eddy & Eckhardt o Architects  
9912 C Georgetown Pike • Box 477 • Great Falls Virginia 22066 • 703-759-5500 Fax 759-5519

CIVIL ENGINEER  
CAD-COR  
3025 Hamaker Court, Suite 201 - Fairfax, Virginia 22031  
703-280-2585 Fax 703-280-1640

STRUCTURAL ENGINEER  
SAWS  
209 Eden Street, 301 - Herndon, Virginia 22070  
703-471-6803 Fax 703-742-3975

MECHANICAL/ELECTRICAL ENGINEER  
Glassman Associates  
1600 Spring Hill Road, Suite 300 - Vienna, Virginia 22180  
703-790-1250 Fax 703-790-1257

1992 SOUTHEASTERN ELEMENTARY SCHOOL  
Howard County, Maryland

Howard County Board of Education  
101910 Route 108 Ellicott City Maryland 21043

Election District No. 6 Census Tract No. 6063  
Tax Map 47  
LIBER: 2270 FOLIO: 0232  
Water Code: 003 Sewer Code: 010000

SDP-91-80

Architect's Project No. 89181 cas Proj. No. 051030

Cover Sheet C-1