

GENERAL NOTES

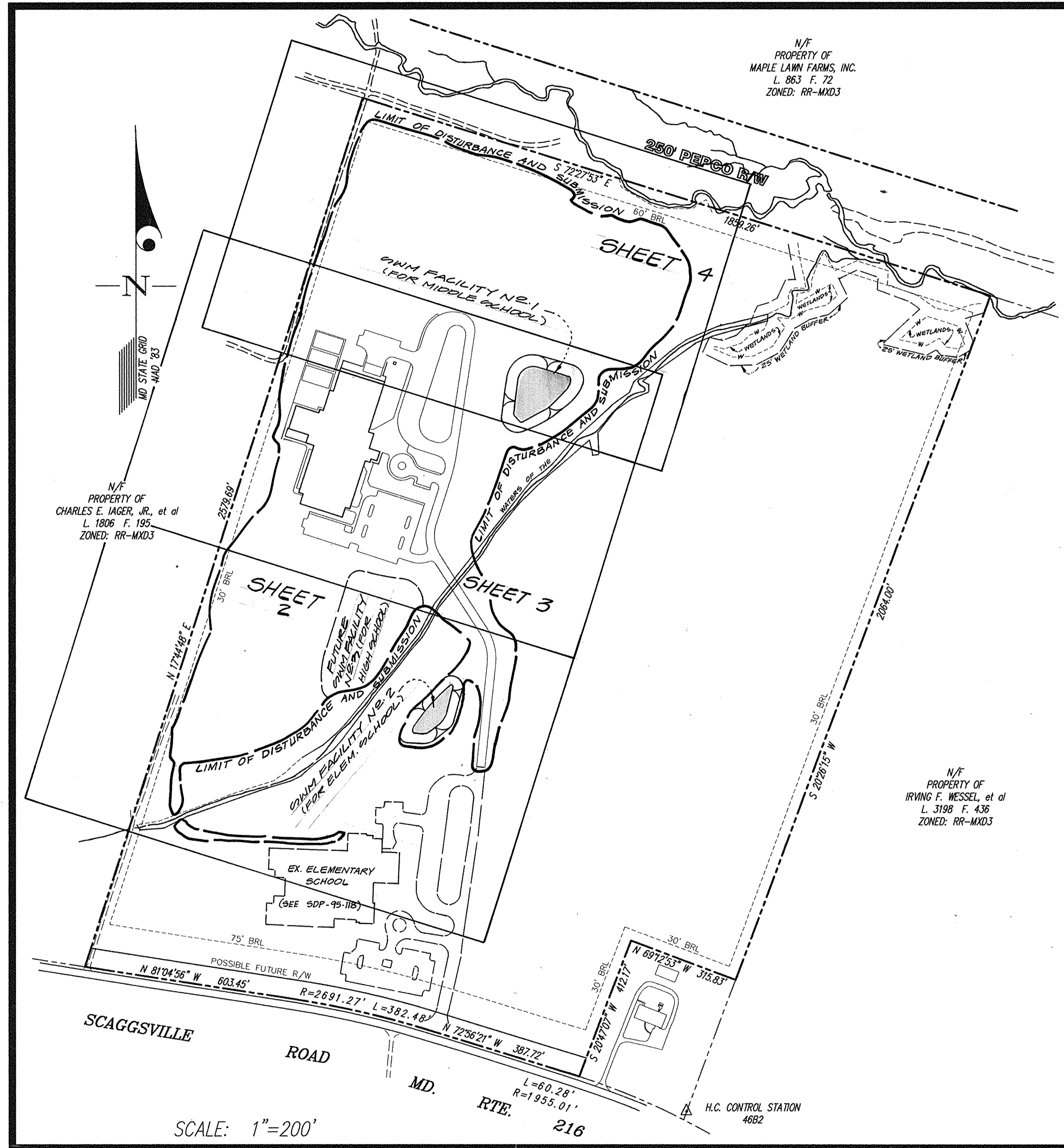
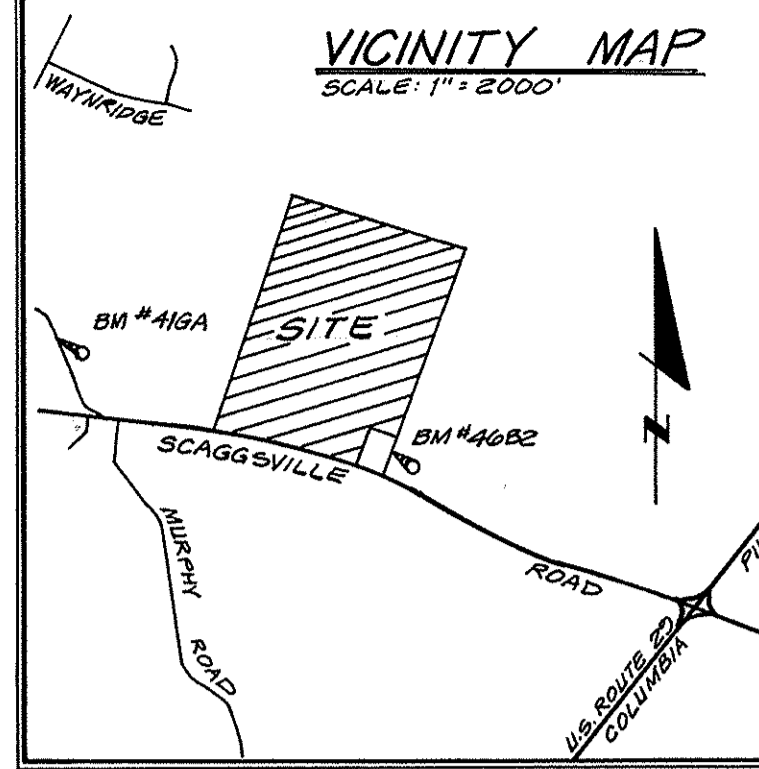
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT CONTRACTOR'S EXPENSE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
- EXISTING TOPOGRAPHY AND FEATURES WERE DERIVED FROM SURVEY BY AIR SURVEY CORPORATION OF STERLING, VA., DATED DECEMBER 15, 1994 AND FROM SDP-95-118.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY THE OWNER.
- COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 41GA AND NO. 46B2.
- CLASS "C" TRENCH BEDDING SHALL BE USED UNDER ALL STORM DRAINS UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR/DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
- SITE TO BE SERVED BY PUBLIC WATER & SEWER: CONTRACT No. 24-3452-D & No. 44-2022-12 (LITTLE PATIENT DRAINAGE AREA)
- STORMWATER MANAGEMENT AND WATER QUALITY FOR THIS SITE, ARE TO BE PROVIDED BY AN ON-SITE PRIVATE RETENTION FACILITY.
- FOR DETAILS OF BUILDING FOOTPRINT/PROFILE, PARKING, ROAD SECTION, HANDICAP, CURB/GUTTER AND DUMPSTER AREA, SEE SHEETS 5 & 6.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
- ALL STORM DRAINS PROPOSED UNDER THIS SDP ARE PRIVATE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 

MISS UTILITY	1-800-257-7777
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	331-4900
A T & T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
- ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS AT CURB & GUTTER ARE AT THE FLOW LINE, UNLESS NOTED OTHERWISE.
- THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
- ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A (5'x5') FIVE FOOT BY FIVE FOOT LEVEL (2% Max.) LANDINGS AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
- RECORDING REFERENCE: PARCEL 115, L. 3218 F. 618.
- OTHER TOPICS RELATED TO THIS SITE:
  - SLOPE & FOREST DELINEATION: SEE SHEET 18 OF 22 SDP-95-118.
  - FOREST CONSERVATION IS BY DECLARATION OF INTENT "SINGLE LOT - CLEARING LESS THAN 40,000 SQUARE FEET".
  - WETLAND DELINEATION WAS PREPARED BY M.A. DIRKS & CO., INC. DATED JANUARY 27, 1994, APPROVED JULY 5, 1995.
  - TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP DATED JUNE 14, 1995, APPROVED JULY 5, 1995.
  - SDP-95-118, COUNCIL RESOLUTION 96-1995, WP-95-122 AND WP-95-121.
- ALL OUTSIDE LIGHTING SHALL COMPLY WITH ZONING SECTION 194. PLEASE REFER TO DRAWING SHEET E-1 TO BE SUBMITTED IN BUILDING PERMIT SUBMISSION PACKAGE.
- WP-95-122 (APPROVED 7-10-95 FOR WESTERN ELM. SCHOOL NO. 2, SDP-95-118) AND WP-95-121 (APPROVED 9-8-97) ALLOW FOR THE DISTURBANCES IN THE REQUIRED BUFFERS INDICATED ON SDP-95-118 AND THIS SDP RESPECTIVELY.

# WESTERN MIDDLE SCHOOL No. 2

## FIFTH ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND



SHEET INDEX

No.	TITLE
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SITE DEVELOPMENT PLAN
5	SITE DETAILS
6	SITE DETAILS
7	SEDIMENT CONTROL PLAN (PHASE I)
8	SEDIMENT CONTROL PLAN (PHASE II)
9	SEDIMENT CONTROL PLAN (PHASE II)
10	SEDIMENT CONTROL NOTES AND DETAILS
11	SEDIMENT CONTROL PLAN (PHASING INSETS)
12	STORMWATER MANAGEMENT NOTES, O & M GUIDELINES AND BORING LOGS
13	STORMWATER MANAGEMENT DETAILS (FOR MIDDLE SCHOOL POND)
14	STORMWATER MANAGEMENT DETAILS (FOR ELEMENTARY SCHOOL)
15	ENTRANCE DRIVE PROFILE AND CULVERT
16	STORM DRAIN PROFILES AND SCHEDULES
17	STORM DRAIN, WATER AND SEWER PROFILES
18	STORM DRAIN AND STORMWATER MANAGEMENT DRAINAGE AREA MAP
19	LANDSCAPE PLAN
20	LANDSCAPE PLAN
21	LANDSCAPE PLAN
22	LANDSCAPE NOTES, DETAILS AND SCHEDULES

SITE ANALYSIS DATA CHART

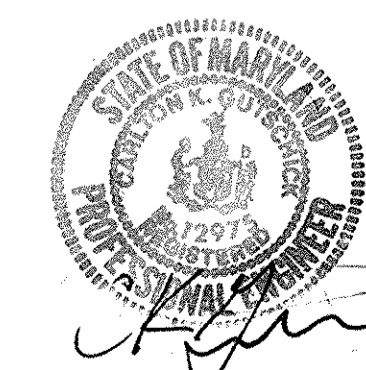
- General Site Data
  - Present Zoning: RRMXD3
  - Proposed Use of Site or Structures: Institutional (Public School)
  - Public Water and Sewer System
- Area Tabulation
  - Total Project Area: 101.2± acres (gross)
  - Net Area of Site: 91.9 acres (101.2 (GROSS) - 9.0 (FLOODPLAIN) - 0.3 (STEEP SLOPES))
  - Area of This Plan Submission: 39.2 ± AC.
  - Limit of Disturbed Area by this SDP: 39.2 ± AC.
  - Building Coverage of Site: 2.1 AC. (THIS SUBMISSION) + 1.6 AC. (SDP-95-118) = 3.7 AC. (4%) TOTAL
  - Building Area: 91,662 S.F. OR 2.1 AC. (THIS SUBMISSION) + 1.6 AC. (SDP-95-118) = 3.7 AC. TOTAL
- Open Space Data
  - Open Space Required on Site: N/A
  - Open Space Proposed: N/A
- Parking Space Data
  - Number of Parking Spaces Required by Zoning Regulations: NA
  - Total Number of Parking Spaces Provided on Site: 114 Car Spaces & 14 Bus Spaces
  - Number of Handicapped Parking Spaces Provided: 5 (Including 1 Handicap Van Space)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 9/29/97  
 Date

*[Signature]* 9/29/97  
 Date

*[Signature]* 9/29/97  
 Date



SITING WORK BID  
19 AUGUST 97

WATER CODE:		SEWER CODE:		ADDRESS CHART	
E20	7895000	115	11650	SCAGGSVILLE ROAD	
SUBDIVISION NAME: HCPSS: WESTERN MIDDLE SCHOOL No. 2		SECTION/AREA: N/A		PARCEL: 115	
PLAT: L. 3218 F. 618	ZONE: RR-MXD3	TAX MAP: 41/46	BLOCK: 21/3	ELEC. DIST.: 5	CENSUS TRACT: 605102

**GLW GUTSCHICK LITTLE & WEBER, P.A.**

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APPR.
9-11-97	Added General Note No. 23		

PREPARED FOR:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 MARYLAND ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU 93

COVER SHEET  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L. 3218 F. 618

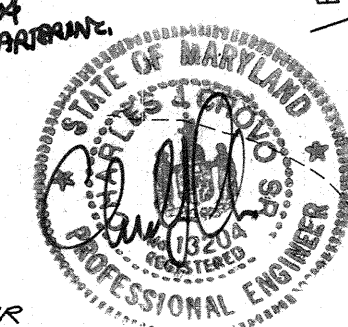
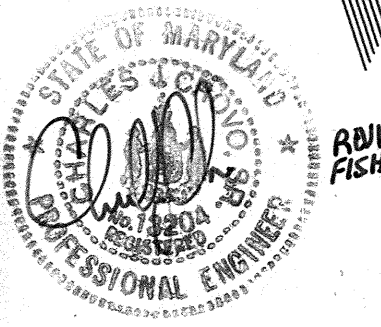
CLARKSVILLE ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	RR-MXD3	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	1 OF 22

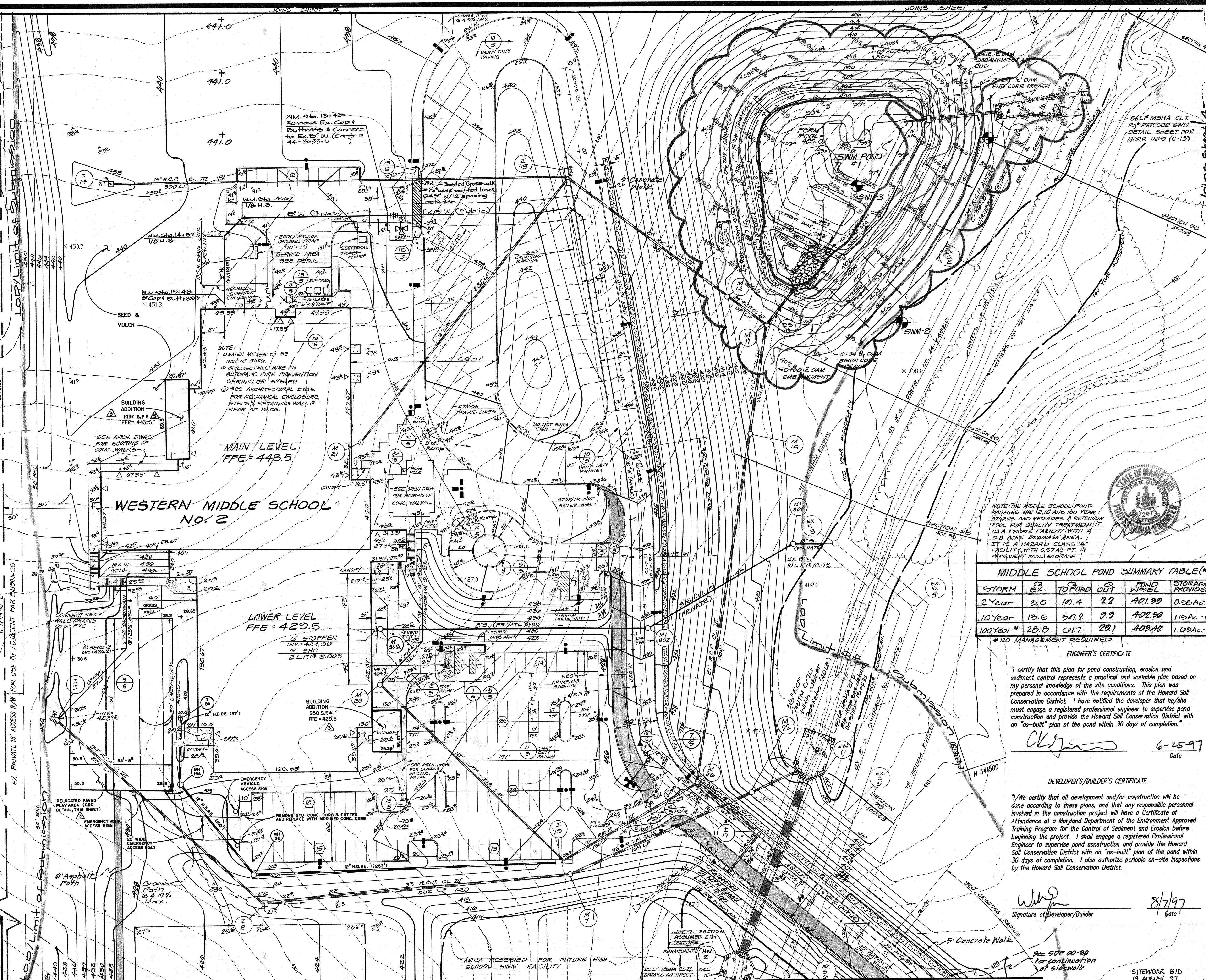
**Construction Sequence - Phase 3**

1. Obtain grading permit.
2. Install sediment control measures and receive permission from the sediment control inspector to proceed with the grading operation.
3. Grade site to the proposed contours shown on this plan. See specifications for compaction requirements.
4. Upon completion of grading, all disturbed areas shall be stabilized immediately.
5. When the contributing areas to the sediment control devices have been stabilized and with the permission of the sediment control inspector, the devices may be removed and these disturbed areas stabilized.
6. Notify the Howard County Office of Inspections and Permits for final inspection.



**LEGEND**

- 422 --- EXISTING CONTOUR
- NEW GRADE ---
- x 451.3 EXISTING SPOT ELEVATION (TYPE WRITTEN)
- x 51 1/2 NEW SPOT ELEVATION (HAND WRITTEN)
- TYPICAL STREET LIGHT ---
- STORMDRAIN LINE & STRUCTURES ---
- SEWER LINE & STRUCTURE ---
- WATER LINE ---
- FIRE HYDRANT ---
- EXISTING TREES (THOSE SHOWN WITHIN L.O.D. SHOULD BE REMOVED) ---
- LIMIT OF DISTURBANCE/LIMIT OF SUBMISSION ---
- STANDARD CURB & GUTTER ---
- REVERSE CURB & GUTTER ---



**WESTERN MIDDLE SCHOOL No. 2**

MAIN LEVEL FFE = 443.5

LOWER LEVEL FFE = 420.5

**MIDDLE SCHOOL POND SUMMARY TABLE (#1)**

STORM	EX.	TO POND	OUT	POND W/SEL	STORAGE PROVIDED
2 Year	3.0	17.4	2.2	401.99	0.56 Ac.-Ft.
10 Year	13.5	27.2	9.9	402.56	1.15 Ac.-Ft.
100 Year*	28.8	47.7	22.1	403.42	1.03 Ac.-Ft.

\*NO MANAGEMENT REQUIRED

**ENGINEER'S CERTIFICATE**

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*Signature* 6-25-97  
Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/we certify that all development and/or construction will be done according to these plans, and that my/responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*Signature* 8/7/97  
Date

**AS-BUILT DOCUMENT FOR PONDS**

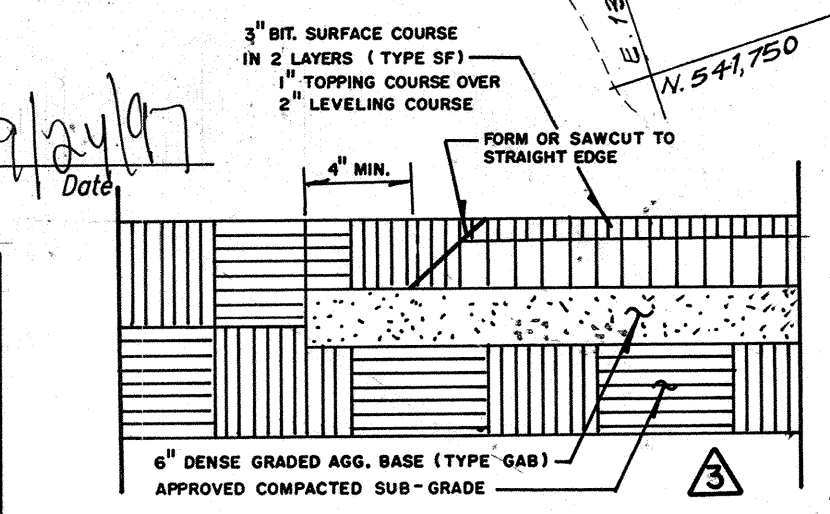
THIS AS-BUILT DOCUMENT IS ACCURATE AND COMPLETE, AND THE POND CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.

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* 9/24/97  
Natural Resources Conservation Service

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

*Signature* 9/24/97  
Howard Soil Conservation District



**RELOCATED PAVED PLAY AREA & EMERG. ACCESS**

Approved: Howard County Department of Planning & Zoning

*Signature* 9/23/97  
Director

*Signature* 7/29/97  
Chief, Division of Land Development

*Signature* 9/26/97  
Chief, Development Engineering Div.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 NO. VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4196 DES. DRN. CHK.

DATE	REVISION	BY	APPR.
2-7-95	Revise Building Addition at Rear of Existing School	JCL	
1-5-95	Road widening, utility relocation & new asphalt & concrete no/ks	F.C.C.	
3-19-94	INSTALL NEW ADDITIONAL RELOCATED PAVED PLAY AREA & ADD NEW STORM DRAIN	JCL	
1-14-94	Added building pad grading for proposed school	BYD	
2-12-97	LABEL SWM POND #1 & #2 IN SUMMARY TABLE	AKJ	

**OWNER:**

HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

**SITE DEVELOPMENT PLAN**

**WESTERN MIDDLE SCHOOL No. 2**

PARCEL 11B  
L. 721B F.C.1B

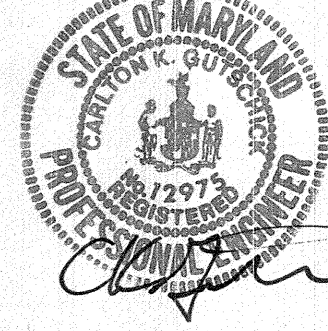
CLARKSVILLE ELECTION DISTRICT No. 5

SITING B/D (19 AUGUST '97)

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	3 OF 22

**SEQUENCE OF CONSTRUCTION**

- 1) Obtain Grading Permit.
- 2) Remove existing paved play area and stabilize with seed and mulch 1 week.
- 3) Construction storm drain system 1 Week.
- 4) Grade to subgrade building addition areas and play area. Install sediment control measures shown on the plans 1 Week.
- 5) Construct building additions and play areas. 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.



**DEVELOPER'S/BUILDER'S CERTIFICATE**

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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*W.W.P.*  
Signature of Developer/Builder  
8/1/97  
Date

**ENGINEER'S CERTIFICATE**

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*CKP*  
Signature of Engineer  
6-25-97  
Date

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.

*Christy Simmons*  
Natural Resources Conservation Service  
9/24/97  
Date

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

*Robert W. Gidman*  
Howard Soil Conservation District  
9/24/97  
Date



Approved: Howard County Department of Planning & Zoning  
Director  
*Joseph R. Kelle* 9/29/97  
Chief, Division of Land Development  
*Andy Hamilton* 9/24/97  
Chief, Development Engineering Div.  
*William* 9/26/97

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
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TEL: (301) 421-4024 NO. VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN: klf/CHK

DATE	REVISION	BY	APPR.
2.7.06	Revise Building Addition at Rear of Existing school	J.C.L.	
1.5.05	Road widening, utility relocation & new asphalt & concrete walk	F.C.C.	
1.25.04	Install New Addition, Relocate Paved Play Area & Install New Storm Drain	D.K.T.	
1.14.04	Add building pod grading for proposed school	S.V.C.	

OWNER:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLICOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

Sediment Control Plan (Phase II)

**WESTERN MIDDLE SCHOOL No. 2**

PARCEL 115  
L9210 F.018

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	8 of 22

HOWARD COUNTY, MARYLAND

SDP-98-01



**Temporary SWM Summary**

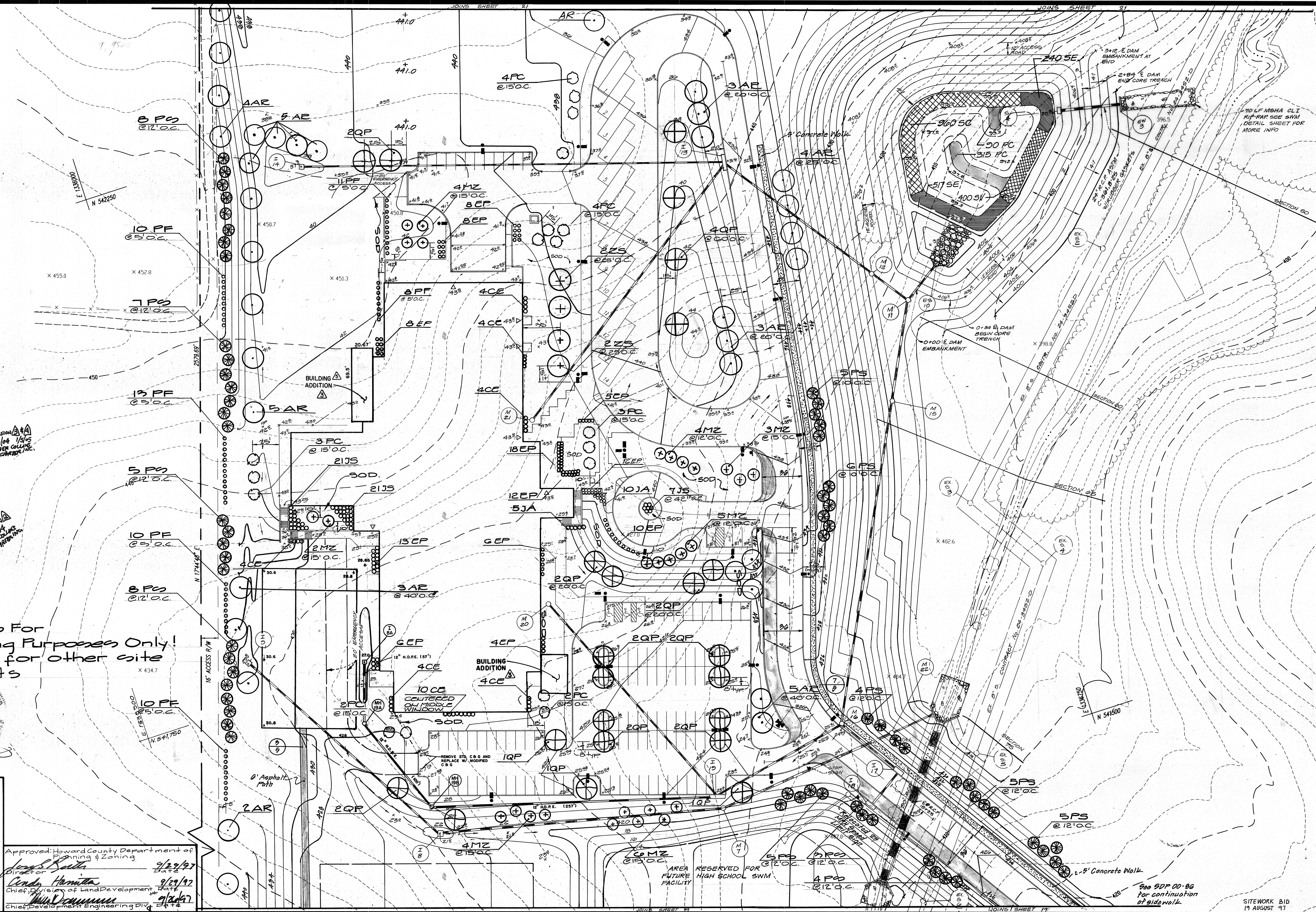
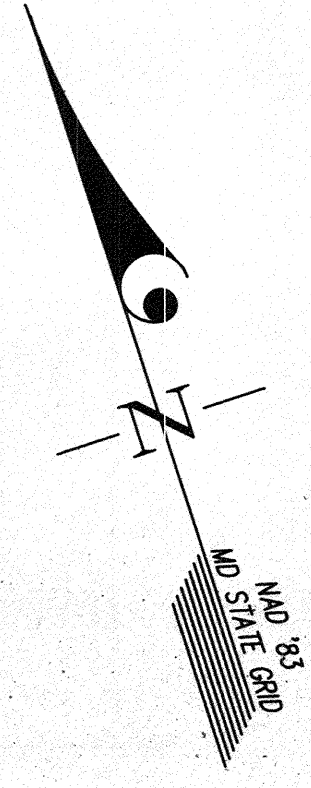
Storm Q Ex	Q to Basin	Q out	Basin WPEL
2 year 7.4	70.4	1.5	409.11
10 year 15.7	51.5	16.2	404.09

- Legend**
- 420- - - - - Exist. Contour
  - 420- - - - - Initial Grading Contour
  - 420- - - - - Prop./Ultimate Grading Contour
  - 442.0 Spot Elevation
  - - - - - Exist. Storm Drain
  - - - - - Prop. Storm Drain
  - SF- Silt Fence
  - SSF- Super Silt Fence
  - OSF- Orange Safety Fence
  - - - - - Exist. Earth Dike
  - - - - - Earth Dike
  - [IP] Inlet Protection
  - [IB] Inlet Blocking
  - [SCE] Stone Construction Entrance
  - [RPS] Removable Pumping
  - L.O.D. Limit of Disturbance
  - Check Dam

This Plan is for Sediment & Erosion Control Only!  
Do Not Use For Other Site Improvements.

Relocate Development Drainage Divide  
Relocate Development Drainage Divide

SITENWORK BID 19 AUGUST 97



STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 3/19/04 1/5/05  
 FISHER COLLINS  
 AND OTHERS, INC.

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 FISHER COLLINS  
 AND OTHERS, INC.

This Plan is For  
 Landscaping Purposes Only!  
 Do Not Use for other site  
 improvements

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 FISHER COLLINS  
 AND OTHERS, INC.

Approved: Howard County Department of  
 Planning & Zoning  
 Director  
 9/29/97  
 Chief Development Engineer  
 9/29/97  
 9/26/97

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APPR.
2.7.05	Revise Building Addition at Rear of Existing School	J.C.L.	
1.5.05	Road Widening, Utility Relocation & New Asphalt & Concrete Walks	F.C.D.	
3.19.04	Install New Addition, Replace Plant Area & Small New Storm Drain	J.C.L.	
1.14.04	Added building pad grading for proposed school	B.V.C.	

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAY  
 CCAV

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 112  
 L-721B F.C.B  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

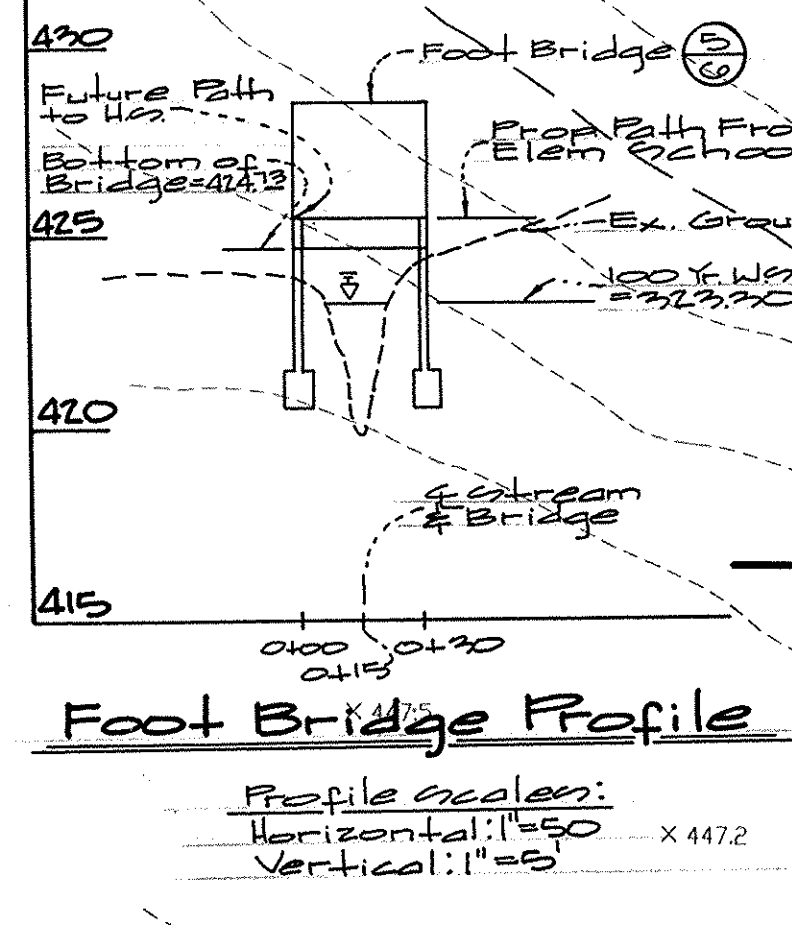
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DATE	TAX MAP No.	SHEET
8-11-97	41/46	20 of 22

SDP-98-01

Elementary School Pond Summary						
Storm	Qex	QatEnd	Qout	Ret. Vol. @ EL	Storage Volume	
2 Year	2.0	10.0	2.1	418.92	0.53 Ac. ft.	
10 Year	12.0	75.1	11.0	417.41	1.04	
50 Year	27.0	52.0	26.9	420.15	1.40	

\* MANAGEMENT NOT REQUIRED

NOTE: THE ELEMENTARY SCHOOL POND MANAGES THE 2, 10, AND 100 YEAR STORMS AND PROVIDES A RETENTION POOL FOR QUALITY TREATMENT. IT IS A PRIVATE FACILITY WITH A 10-ACRE DRAINAGE AREA. IT IS A HAZARD CLASS "A" FACILITY WITH 250,000 G.P.D. TREATMENT TANK STORAGE.



**Foot Bridge Profile**  
 Profile scales:  
 Horizontal: 1"=50' X 447.2  
 Vertical: 1"=5'



**DEVELOPER'S/BUILDER'S CERTIFICATE**  
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Signature of Developer/Builder: *W.H.H.* Date: 8/1/97

**ENGINEER'S CERTIFICATE**  
 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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Signature: *Charles E. Jager, Jr.* Date: 6-25-97

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: *Paul Simmons* Date: 7/24/97  
 Natural Resources 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. John* Date: 9/24/97  
 Howard Soil Conservation District

Approved: Howard County Department of Planning & Zoning  
 Director: *Joseph Smith* 9/24/97  
 Chief of Division of Land Development: *Cathy Hamilton* 9/24/97  
 Chief of Development Engineering Division: *Paul Simmons* 9/24/97

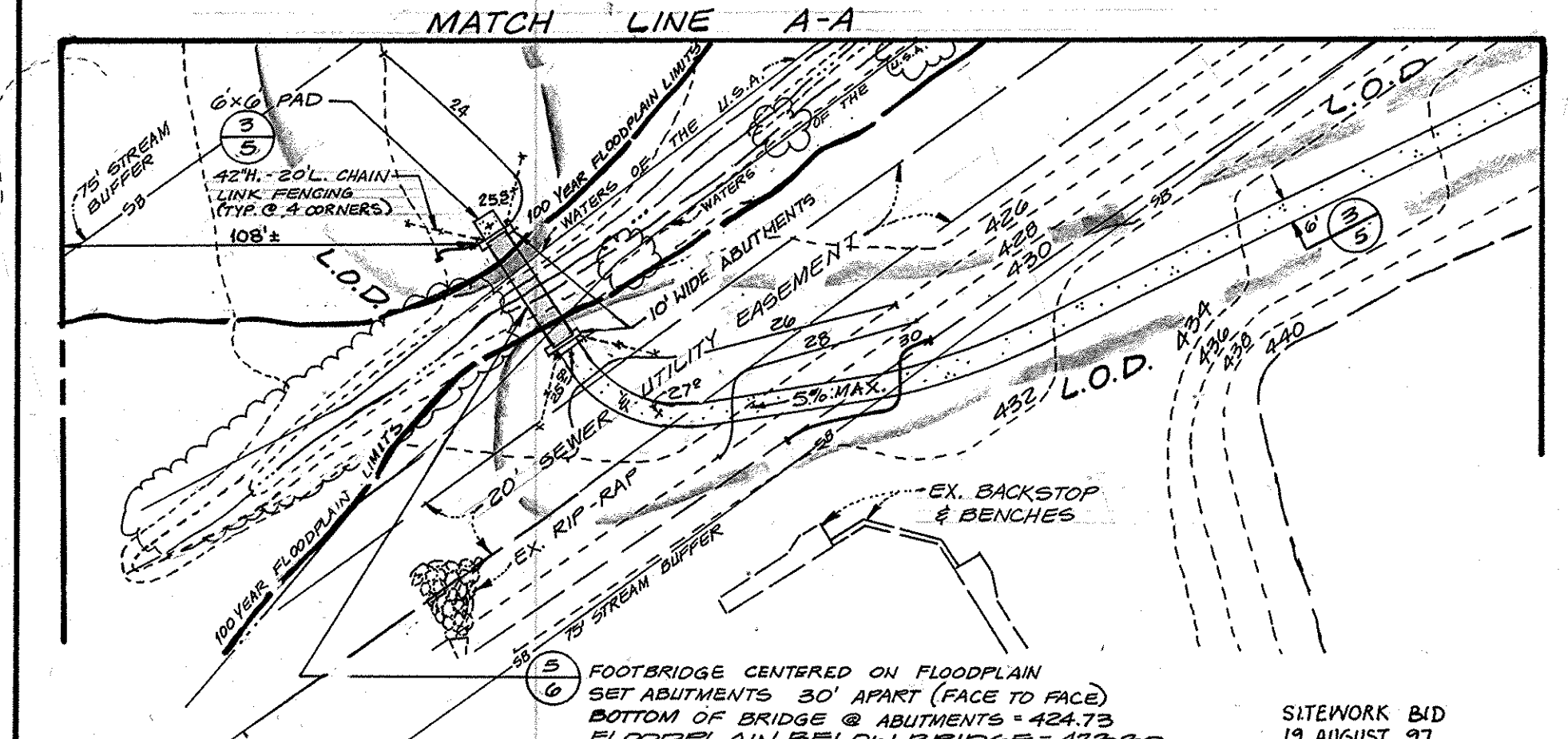
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 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

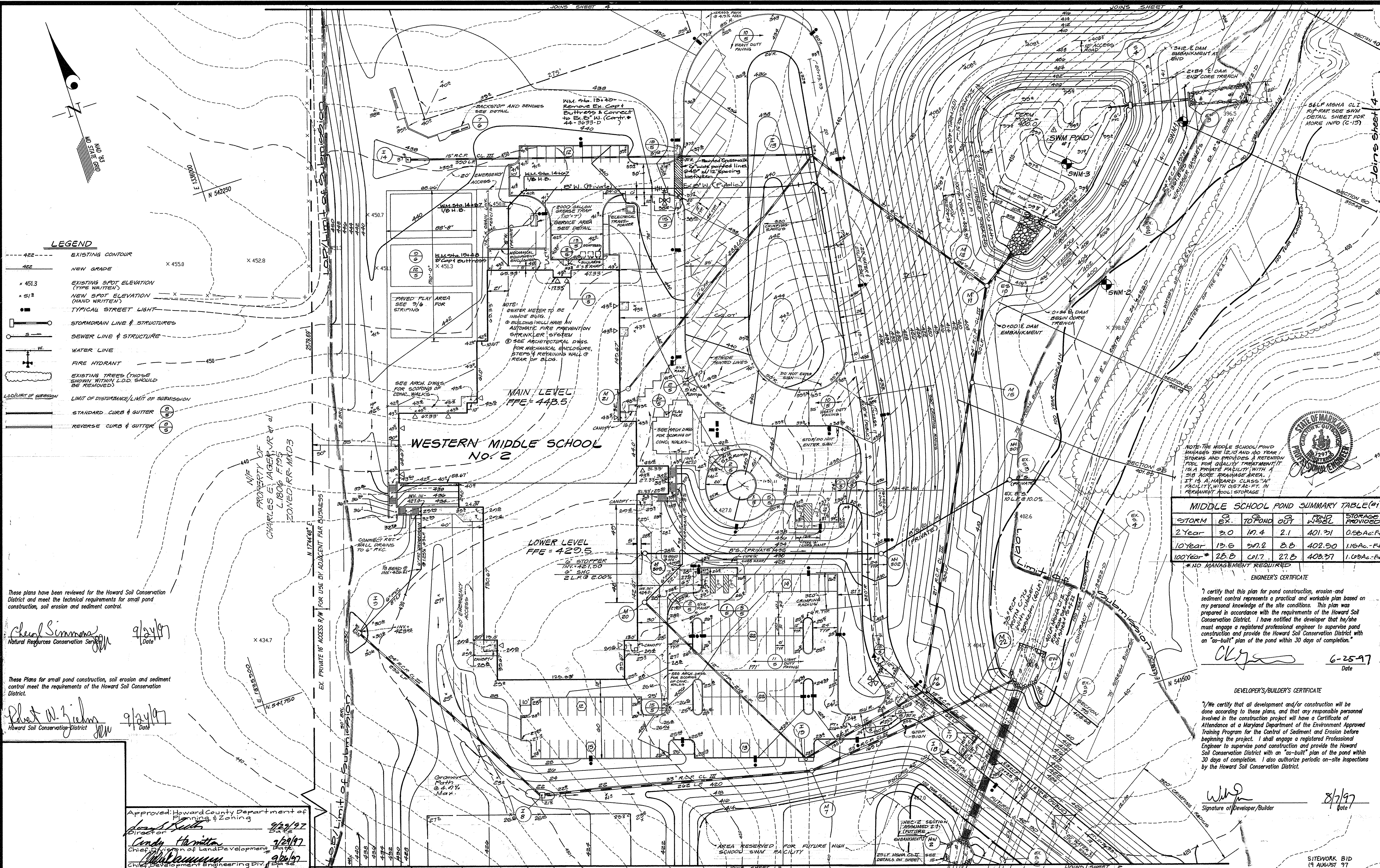
DATE	REVISION	BY	APPR.
9-12-97	ADD LABEL SWM POND #2 & DARKEN SOIL BORINGS & REVISE RIP-RAP @ SW-5	HKJ	
9-12-97	EXTENDED PROP CURB ALONG ACCESS ROAD TO MEET EX. CURB	HKJ	

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L-2210 F-010  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	2 of 22





**LEGEND**

- - - 422 - - - EXISTING CONTOUR
- 422 — NEW GRADE
- x 451.3 EXISTING SPOT ELEVATION (TYPE WRITTEN)
- x 51.2 NEW SPOT ELEVATION (HAND WRITTEN)
- TYPICAL STREET LIGHT
- S — STORM DRAIN LINE & STRUCTURES
- D — SEWER LINE & STRUCTURE
- W — WATER LINE
- F — FIRE HYDRANT
- T — EXISTING TREES (THOSE SHOWN WITHIN L.O.D. SHOULD BE REMOVED)
- L — LIMIT OF DISTURBANCE/LIMIT OF SUBMISSION
- C — STANDARD CURB & GUTTER
- R — REVERSE CURB & GUTTER

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.

*Cheryl Simmons* 9/24/97  
Natural Resources Conservation Service Date

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

*Robert W. Zehm* 9/24/97  
Howard Soil Conservation District Date

Approved: Howard County Department of Planning & Zoning  
*Leslie Smith* 9/29/97  
*Candy Hamilton* 9/29/97  
Chief, Department of Land Development  
*Cheryl Simmons* 9/26/97  
Chief, Development Engineering Div.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 680-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APPR.
9-13-97	1. LABEL SWM POND #1 & N SUMMARY TABLE	HEV	

OWNER:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 11B  
L 921B F 01B  
CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	3 OF 22

**MIDDLE SCHOOL POND SUMMARY TABLE (#1)**

STORM	EX.	TO POND	OUT	POND W-SQL	STORAGE PROVIDED
2 Year	3.0	10.4	2.1	401.71	0.56 Ac.-FT.
10 Year	13.5	20.2	8.8	402.50	1.16 Ac.-FT.
100 Year *	25.8	31.7	27.8	403.37	1.03 Ac.-FT.

\*NO MANAGEMENT REQUIRED

ENGINEER'S CERTIFICATE  
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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*CLG* 6-25-97  
Date

DEVELOPER'S/BUILDER'S CERTIFICATE  
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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*WJP* 8/1/97  
Signature of Developer/Builder Date



SITWORK BID (9 AUGUST 97)



Approved: Howard County Department of Planning & Zoning  
*David S. Galt* 9/29/97  
 Director Date  
*Candy Hamilton* 9/29/97  
 Chief, Division of Land Development Date  
*John Deane* 9/29/97  
 Chief, Development Engineering Date

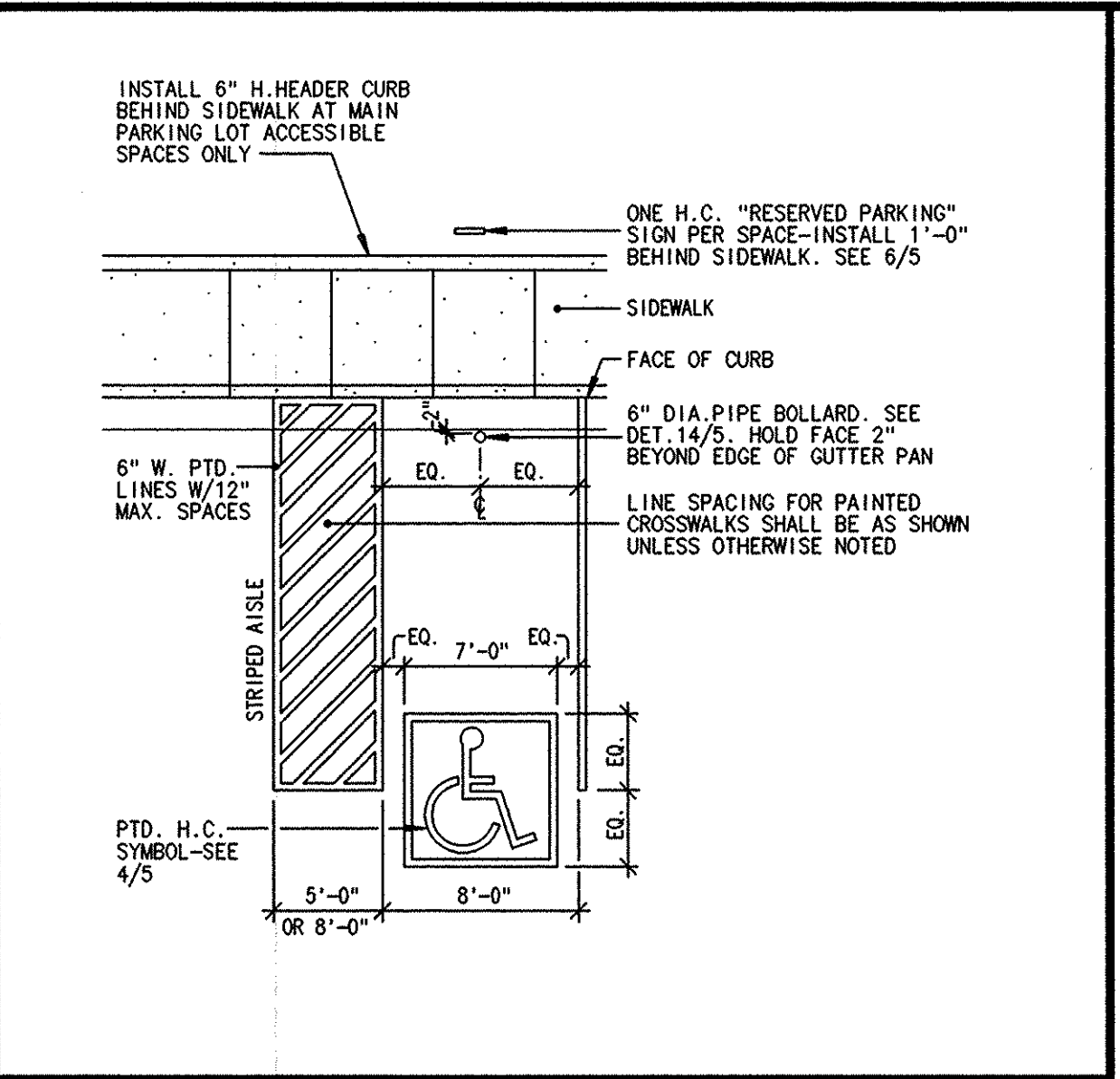
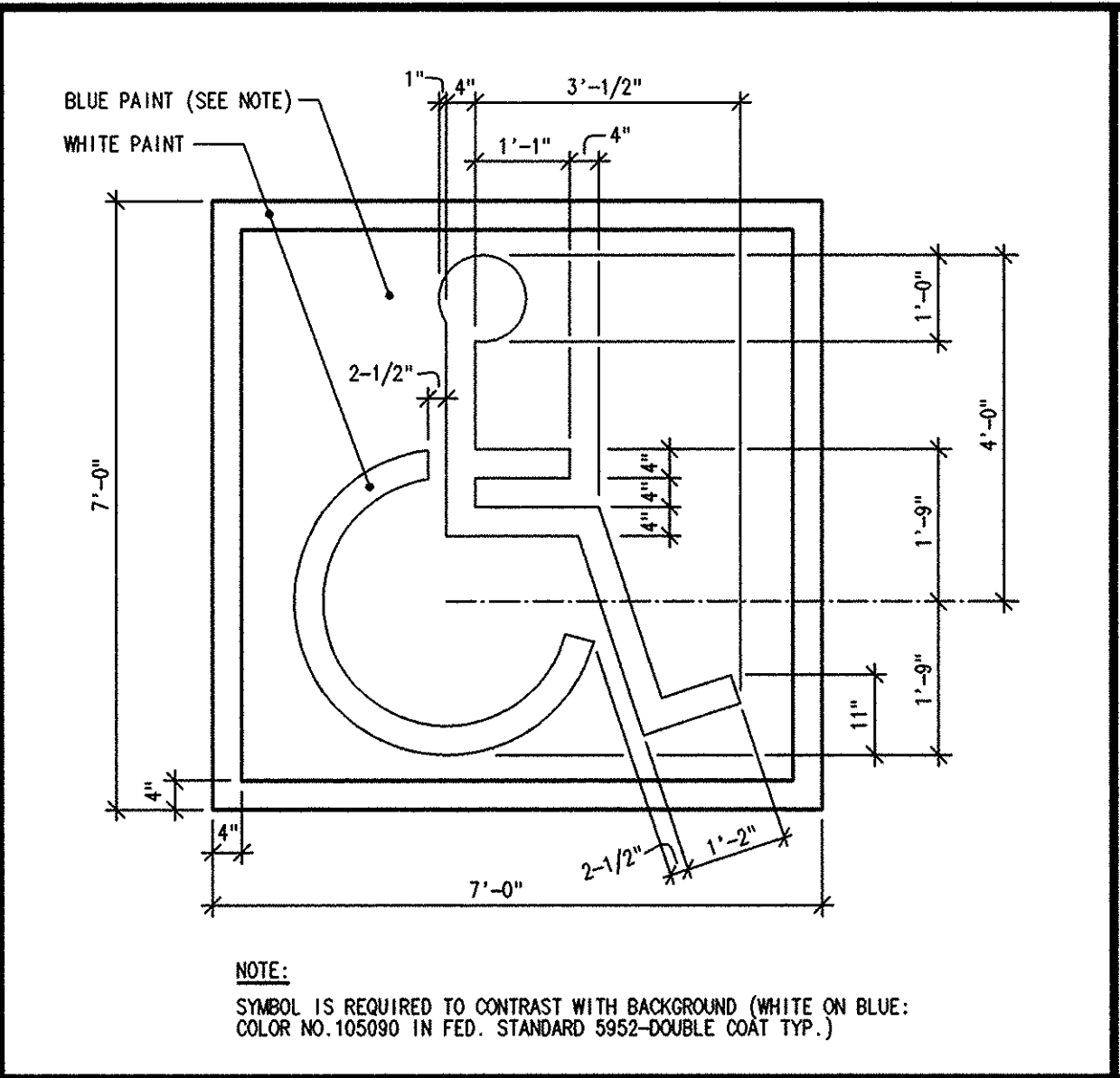
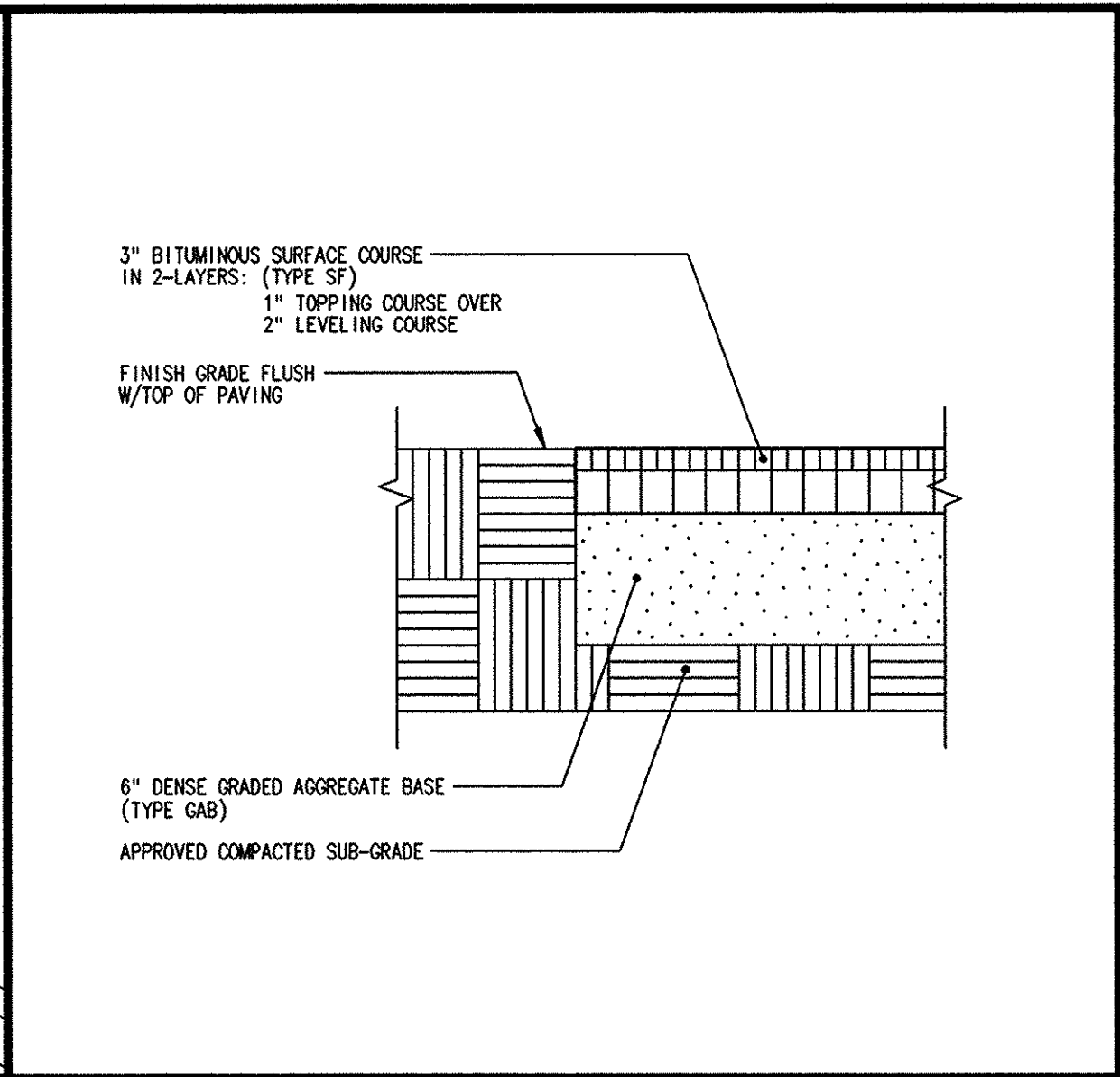
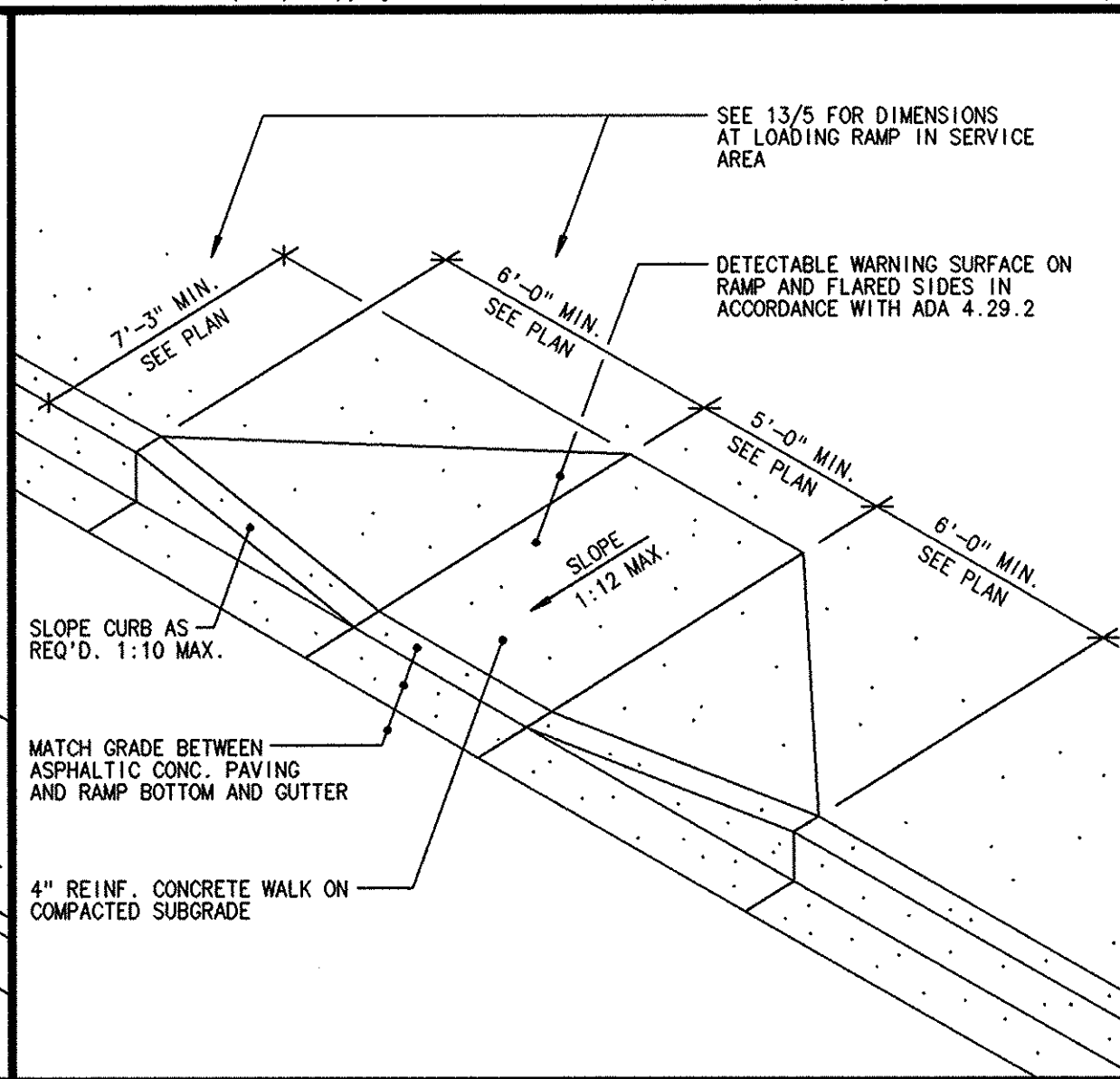
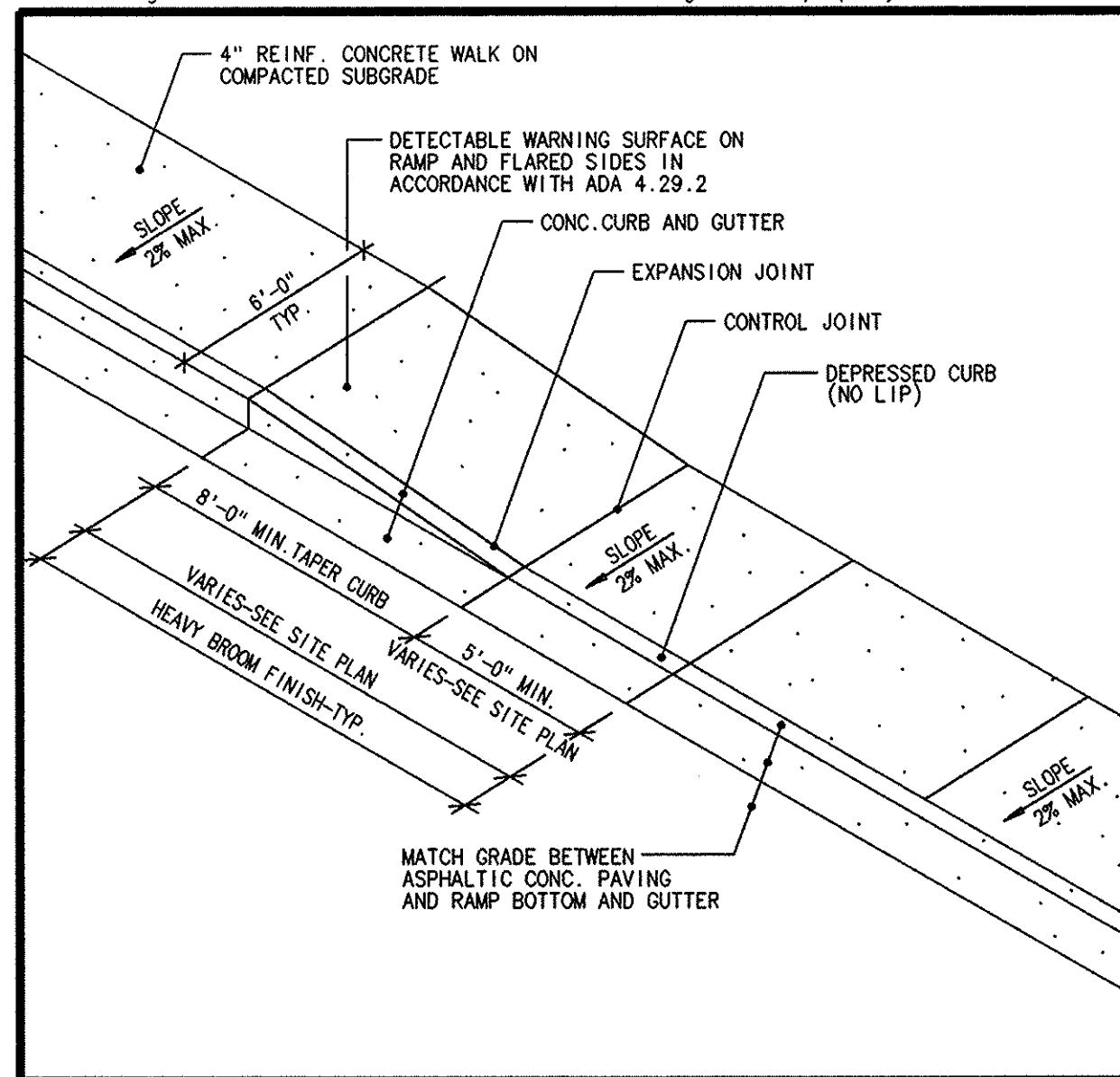
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT: (410) 680-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APP'R.

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

SITE DEVELOPMENT PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 11B  
 L921B F.O.B  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	4 of 22



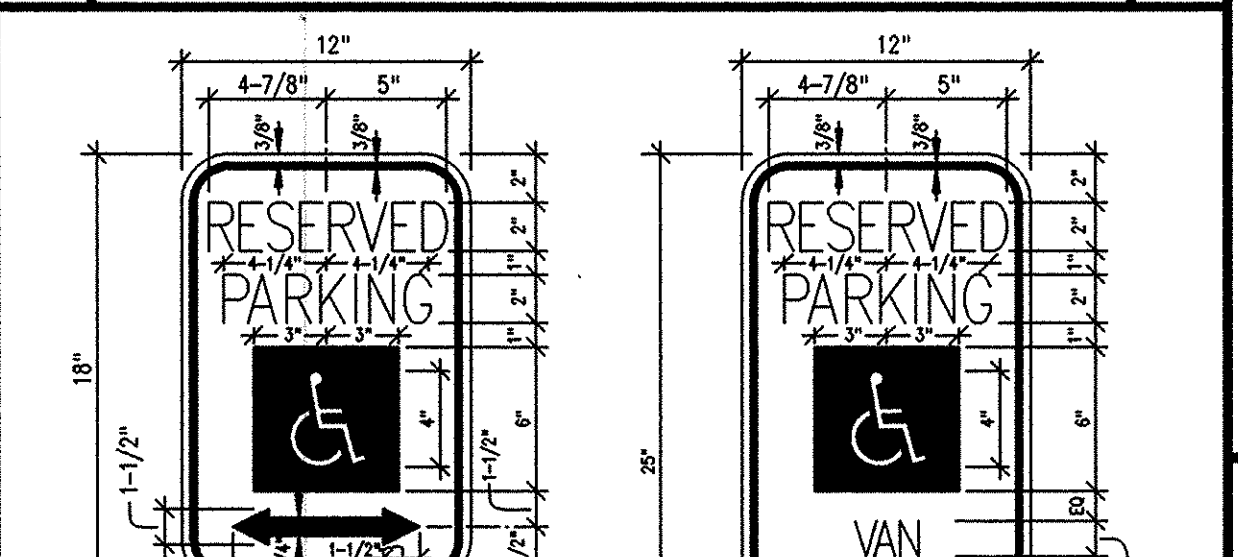
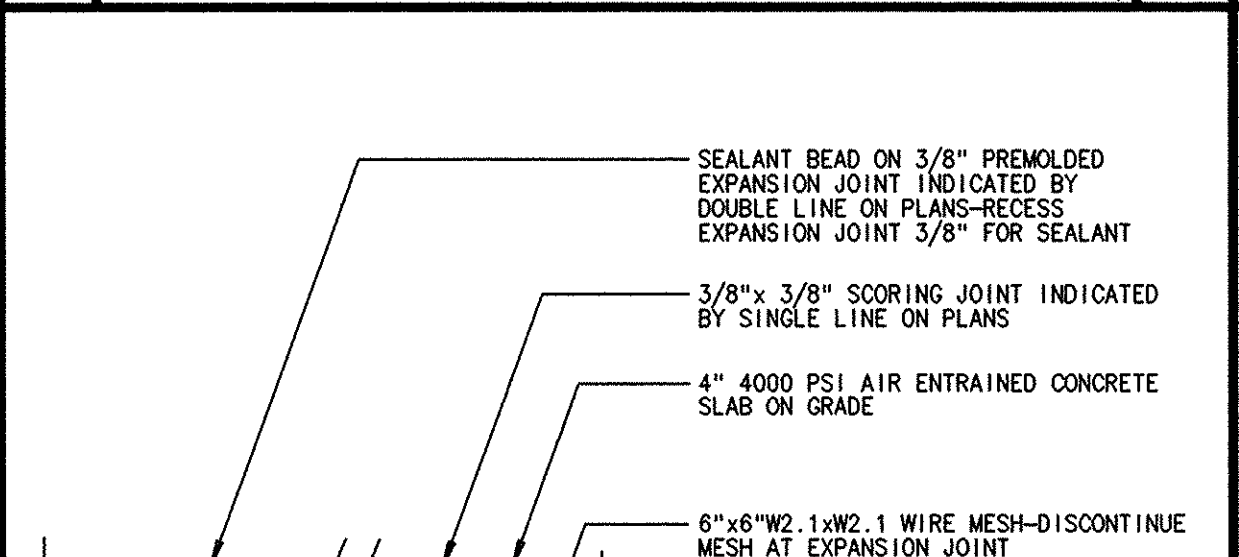
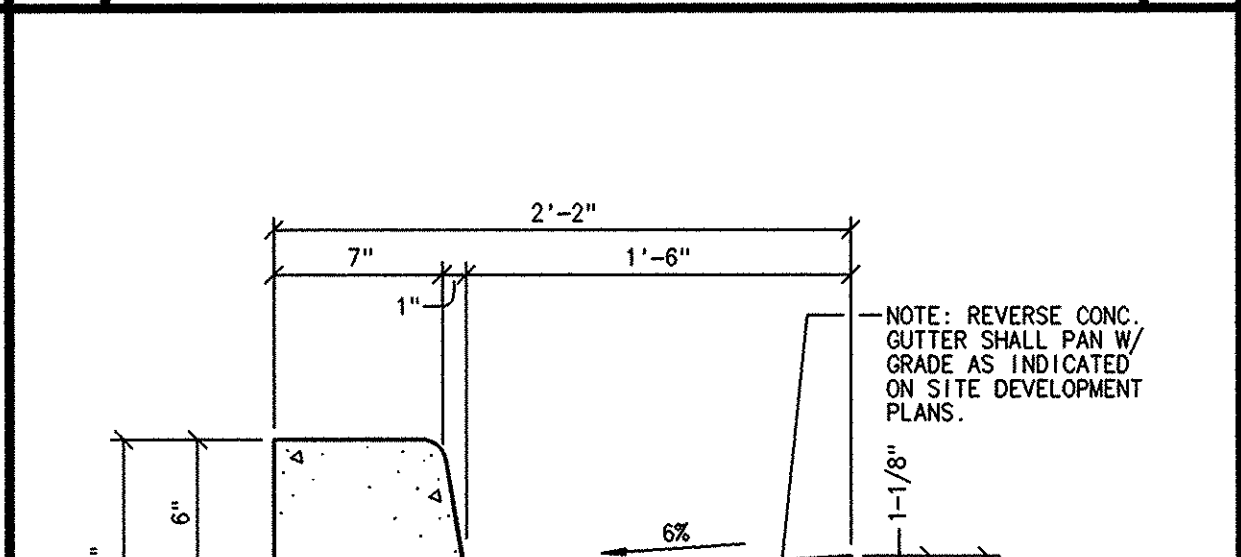
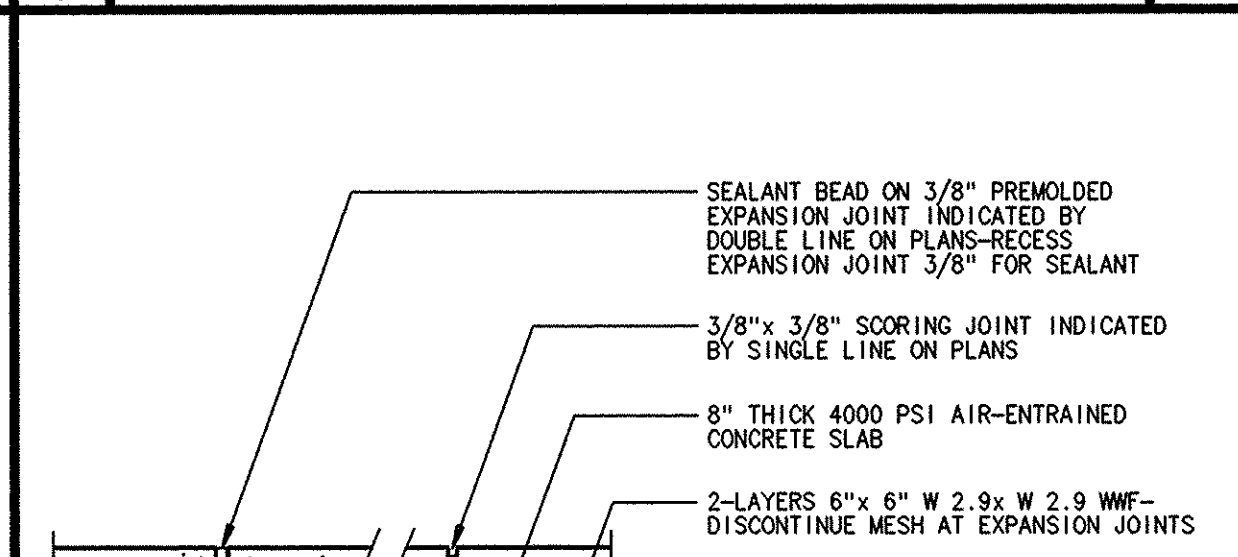
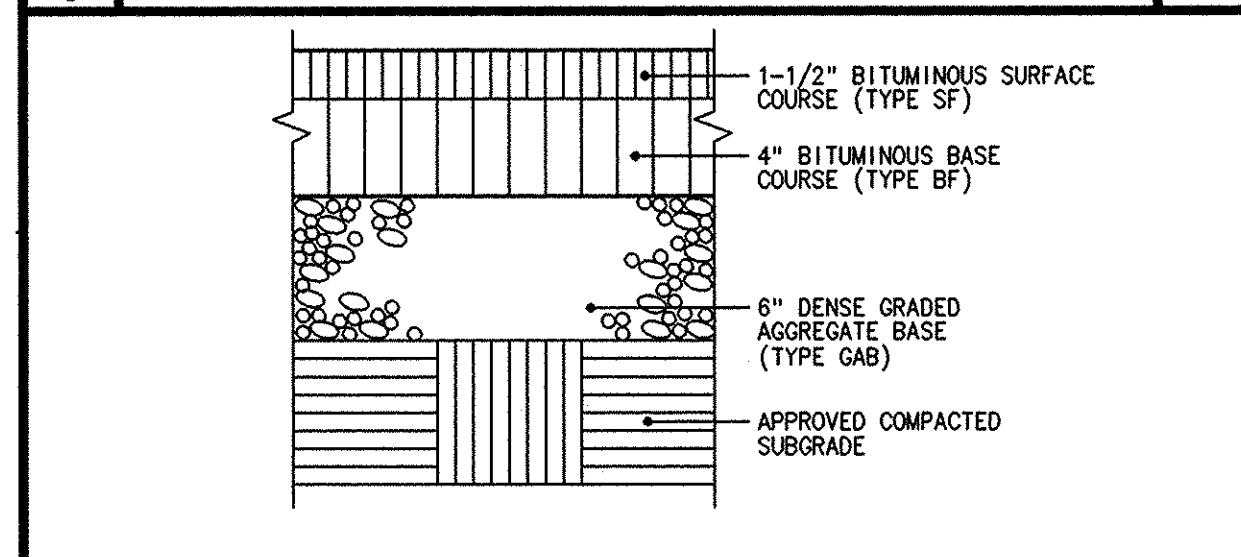
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5 TYPE A CURB RAMP DETAIL NO SCALE

2  
5 TYPE 1 CURB RAMP DETAIL NO SCALE

3  
5 ASPHALTIC CONCRETE WALK DETAIL 1 1/2

4  
5 ACCESSIBLE SPACE STENCIL LAYOUT 1 1/2

5  
8 ACCESSIBLE SPACE LAYOUT NO SCALE



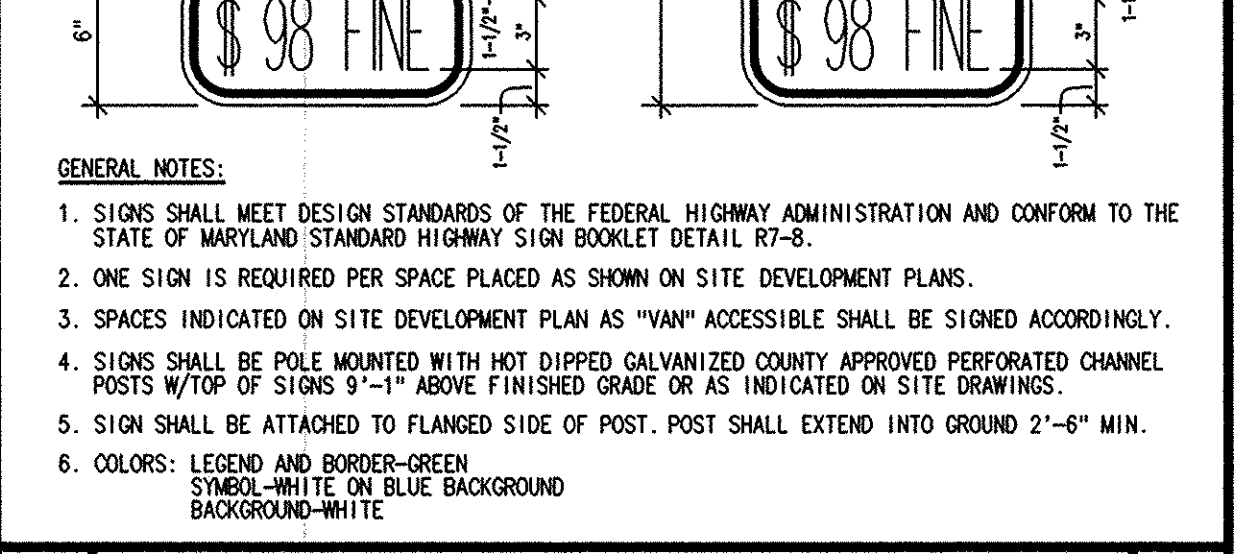
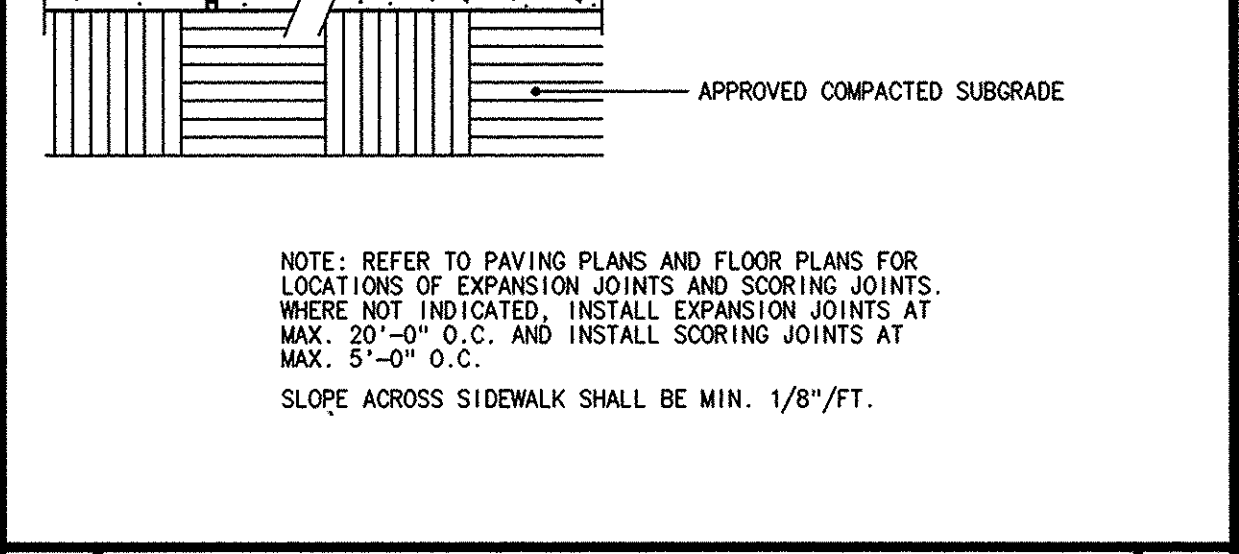
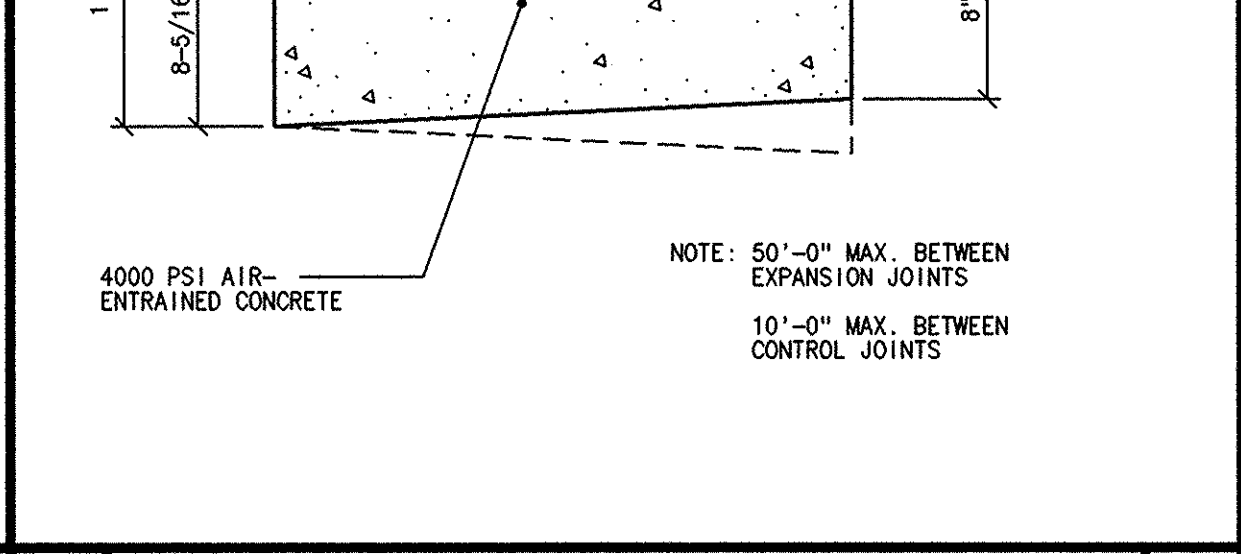
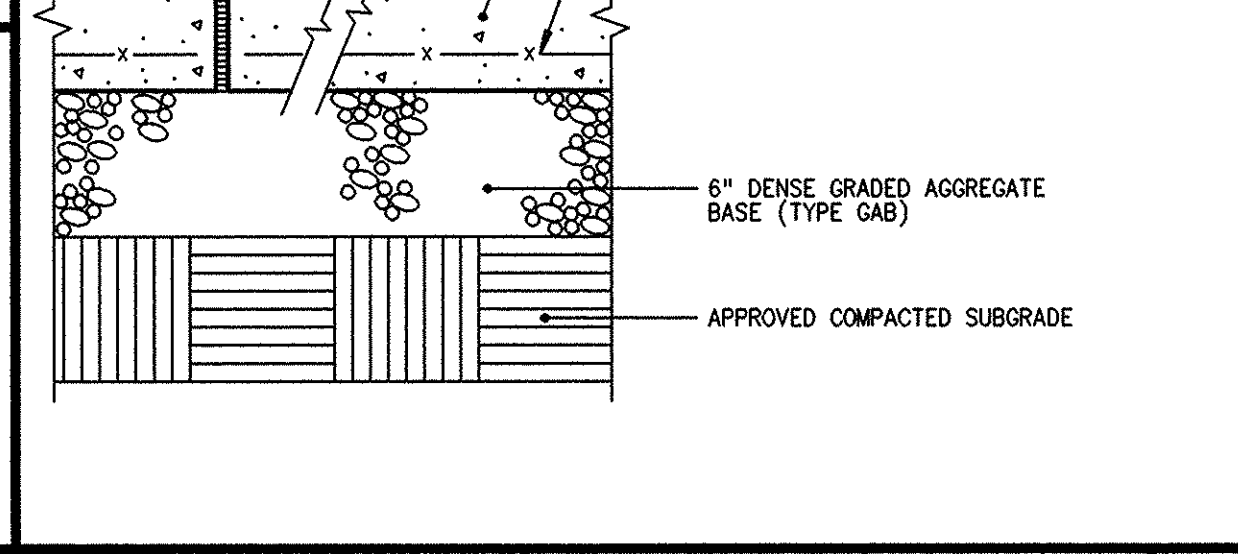
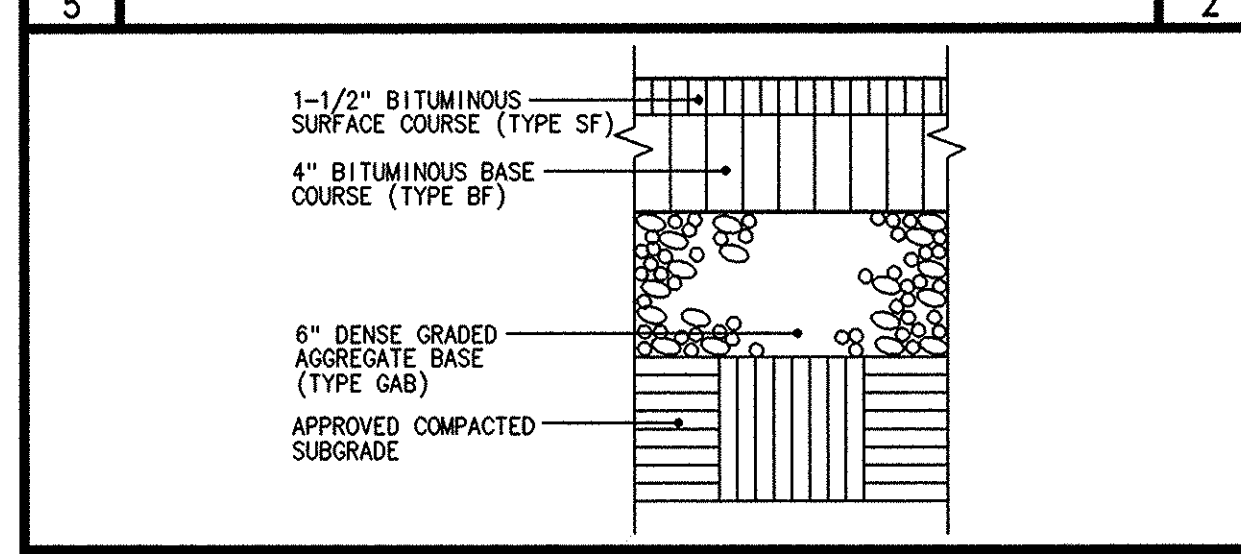
10  
5 HEAVY DUTY PAVEMENT DETAIL 1 1/2

9  
5 SERVICE AREA CONCRETE PAVING 1 1/2

8  
5 CONCRETE CURB AND GUTTER 1 1/2

7  
5 CONCRETE WALK DETAIL 1 1/2

6  
5 HANDICAP PARKING SIGNS DETAIL NO SCALE



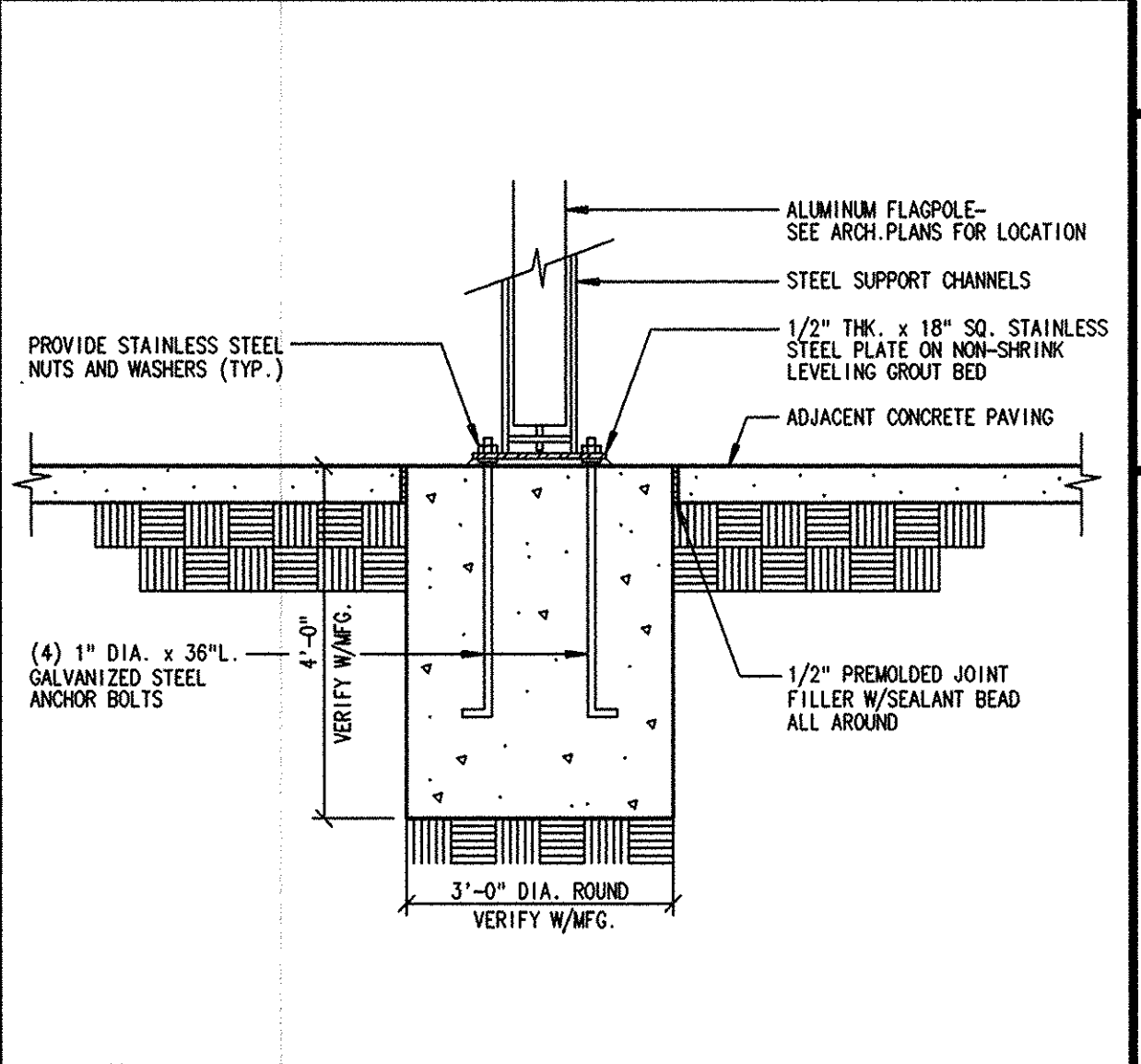
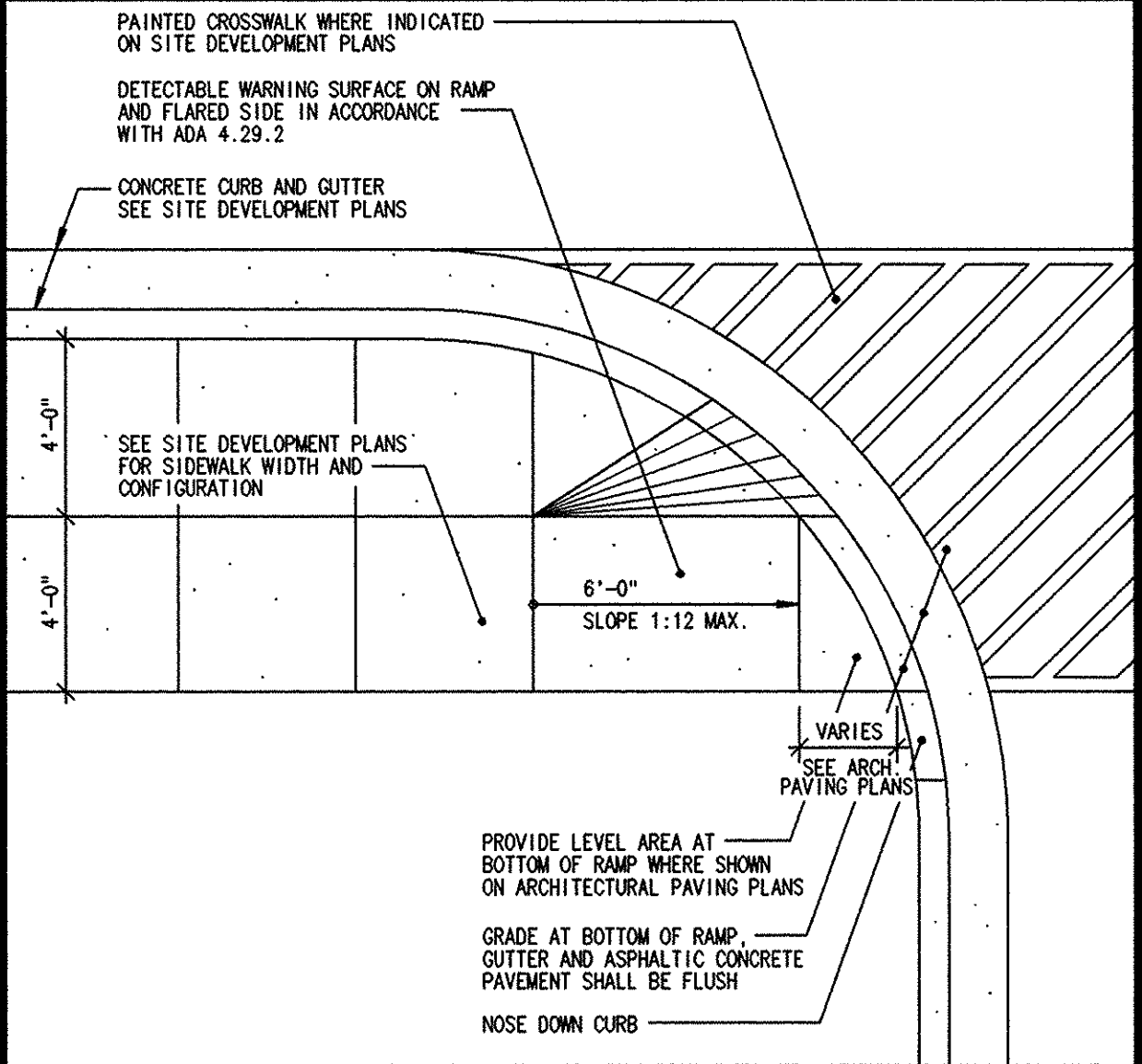
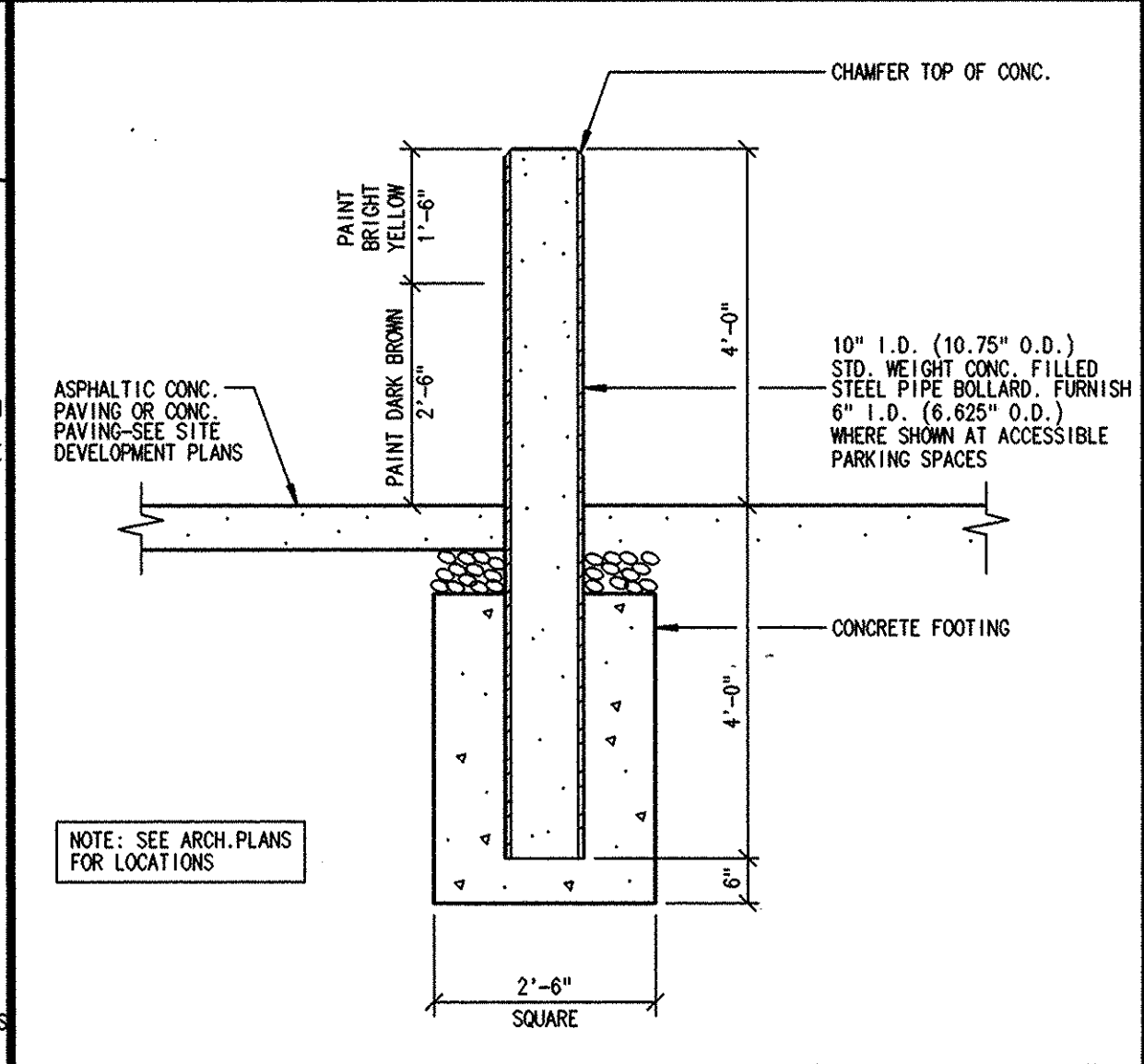
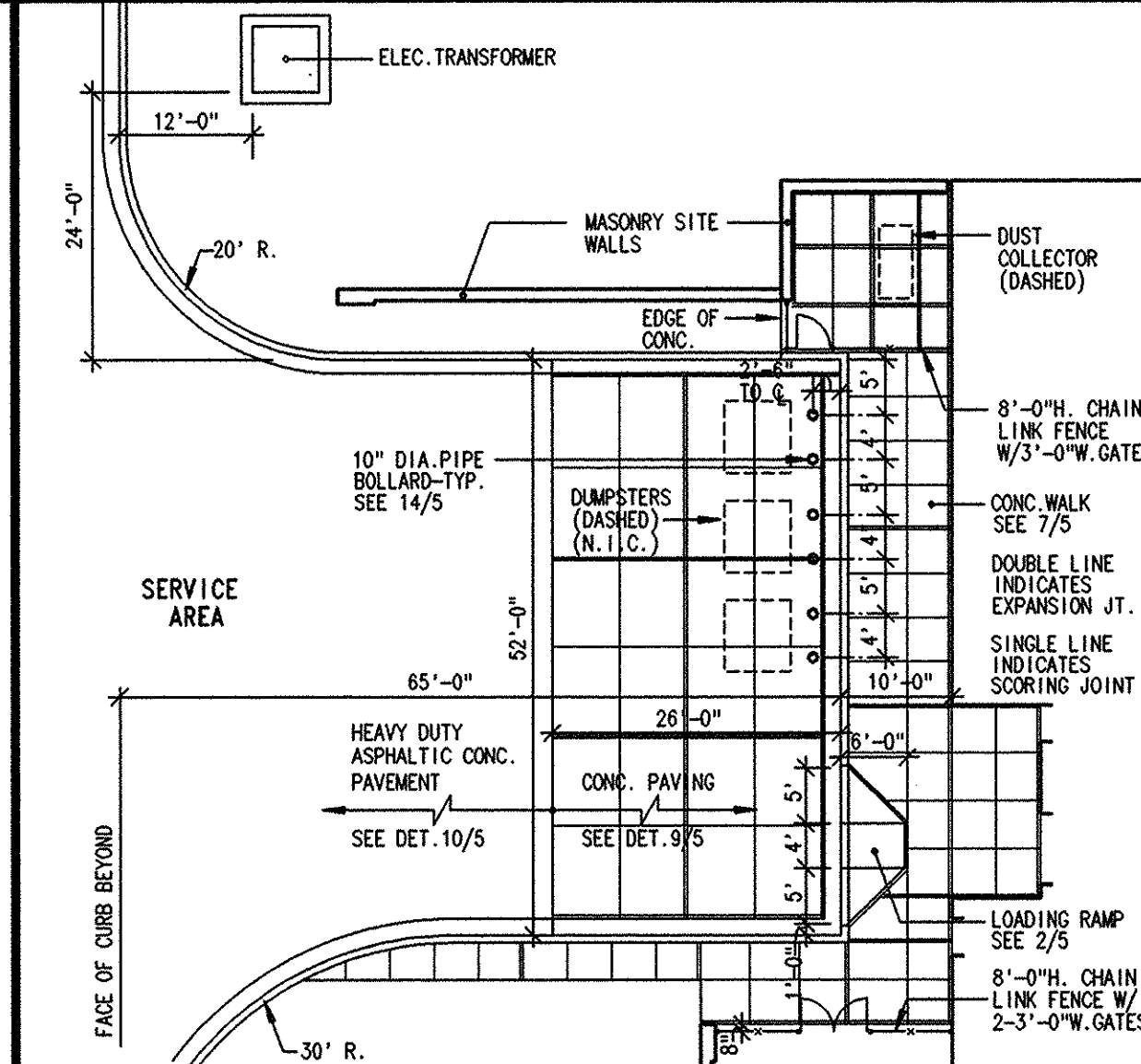
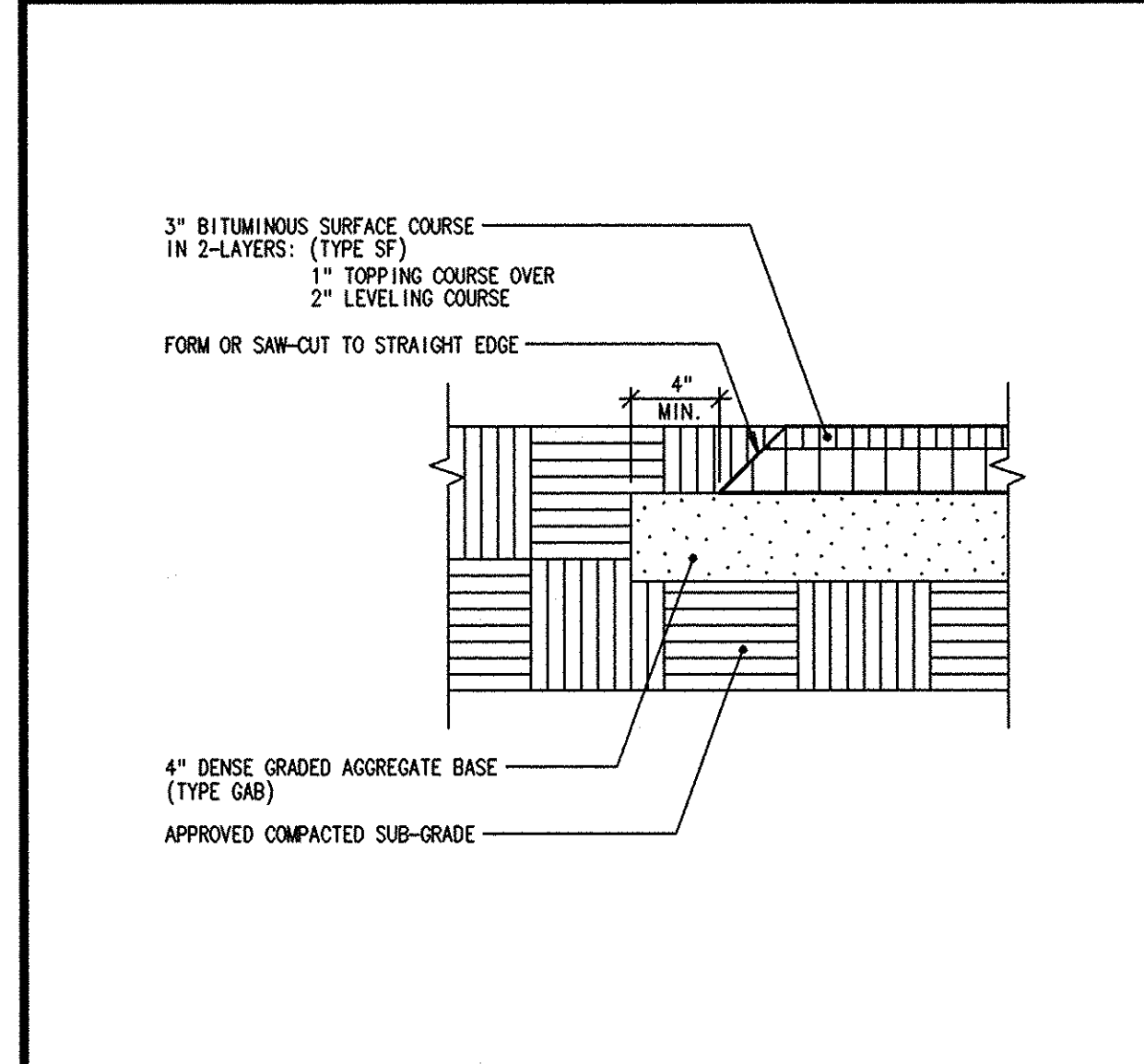
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5 LIGHT DUTY PAVEMENT DETAIL 1 1/2

13  
5 SERVICE AREA DETAIL 1 1/2

14  
5 PIPE BOLLARD DETAIL 1 1/2

15  
5 TYPE 2 CURB RAMP DETAIL 1 1/2

16  
5 TILT FLAGPOLE DETAIL 1 1/2



12  
5 PAVED PLAY AREA PAVEMENT DETAIL 1 1/2

13  
5 SERVICE AREA DETAIL 1 1/2

14  
5 PIPE BOLLARD DETAIL 1 1/2

15  
5 TYPE 2 CURB RAMP DETAIL 1 1/2

16  
5 TILT FLAGPOLE DETAIL 1 1/2

TCA ARCHITECTS  
2661 RIVA ROAD SUITE 120  
ANNAPOLIS, MARYLAND 21401  
410-841-6205

OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLIOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: *[Signature]* 9/29/97 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* 9/29/97 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 9/26/97 DATE

SITE DETAILS

WESTERN MIDDLE SCHOOL NO.2

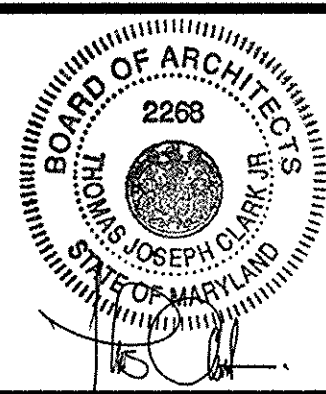
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5TH ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN

SITING: 810  
19 AUGUST 97

5 of 22

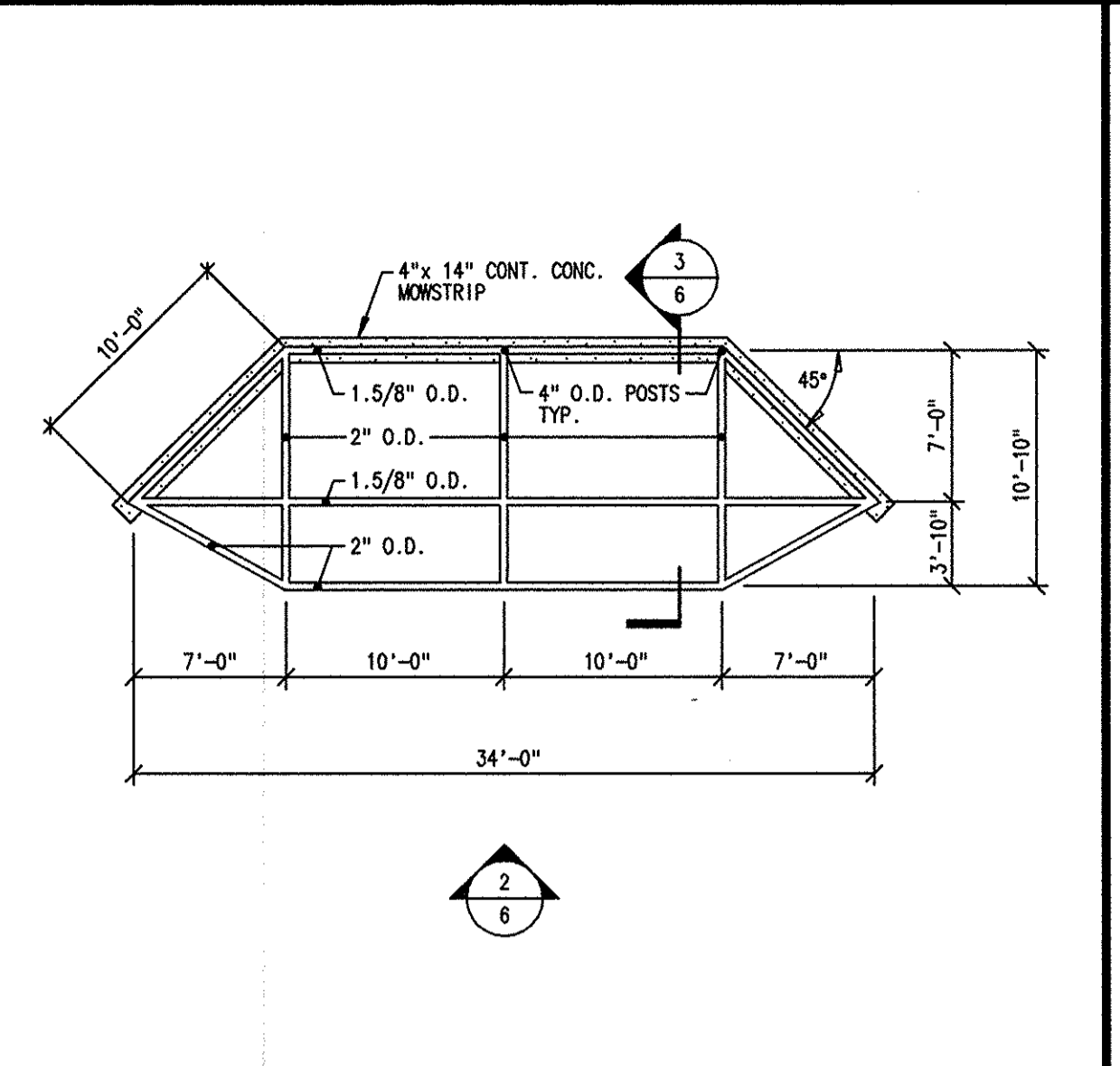
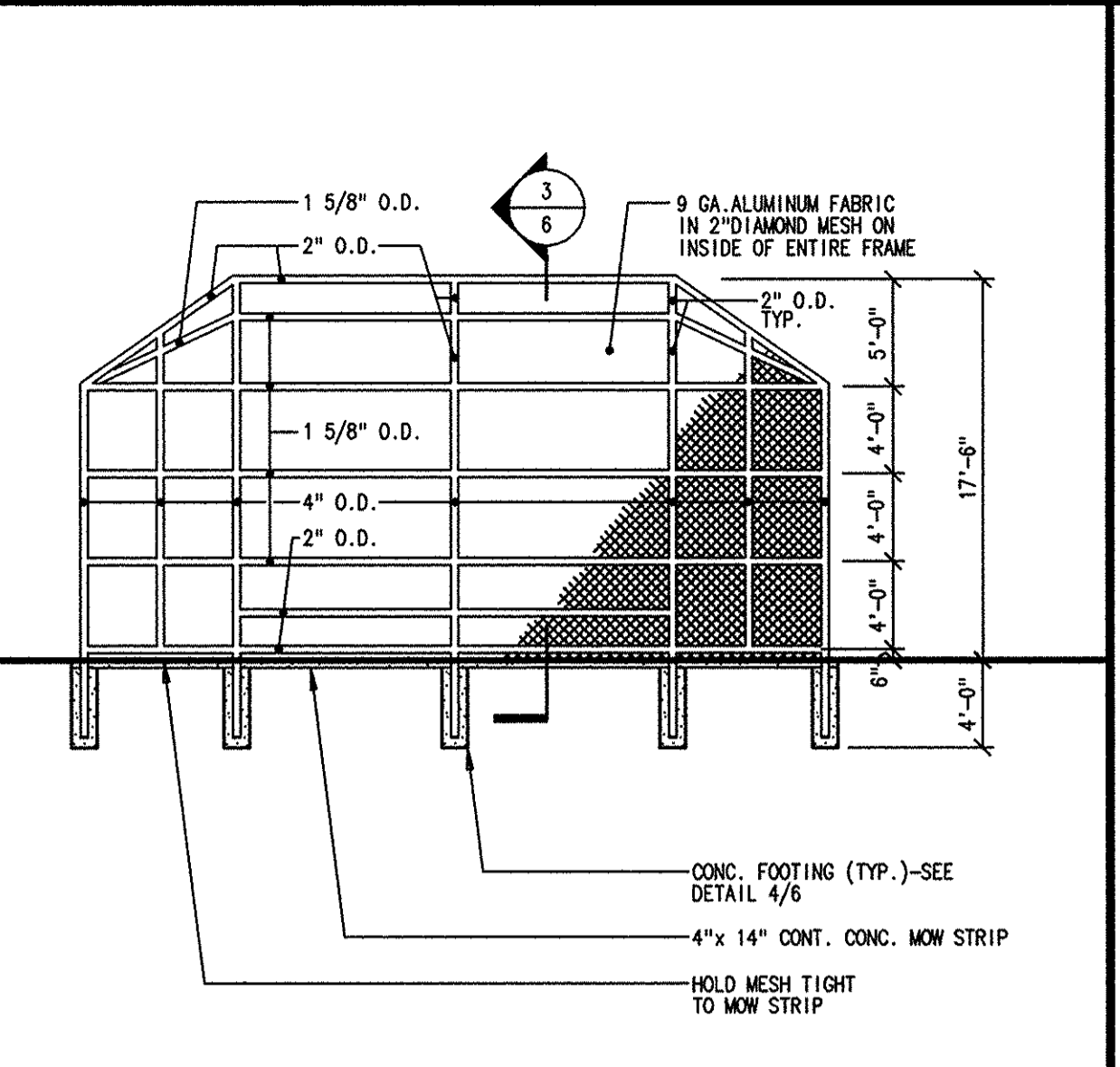
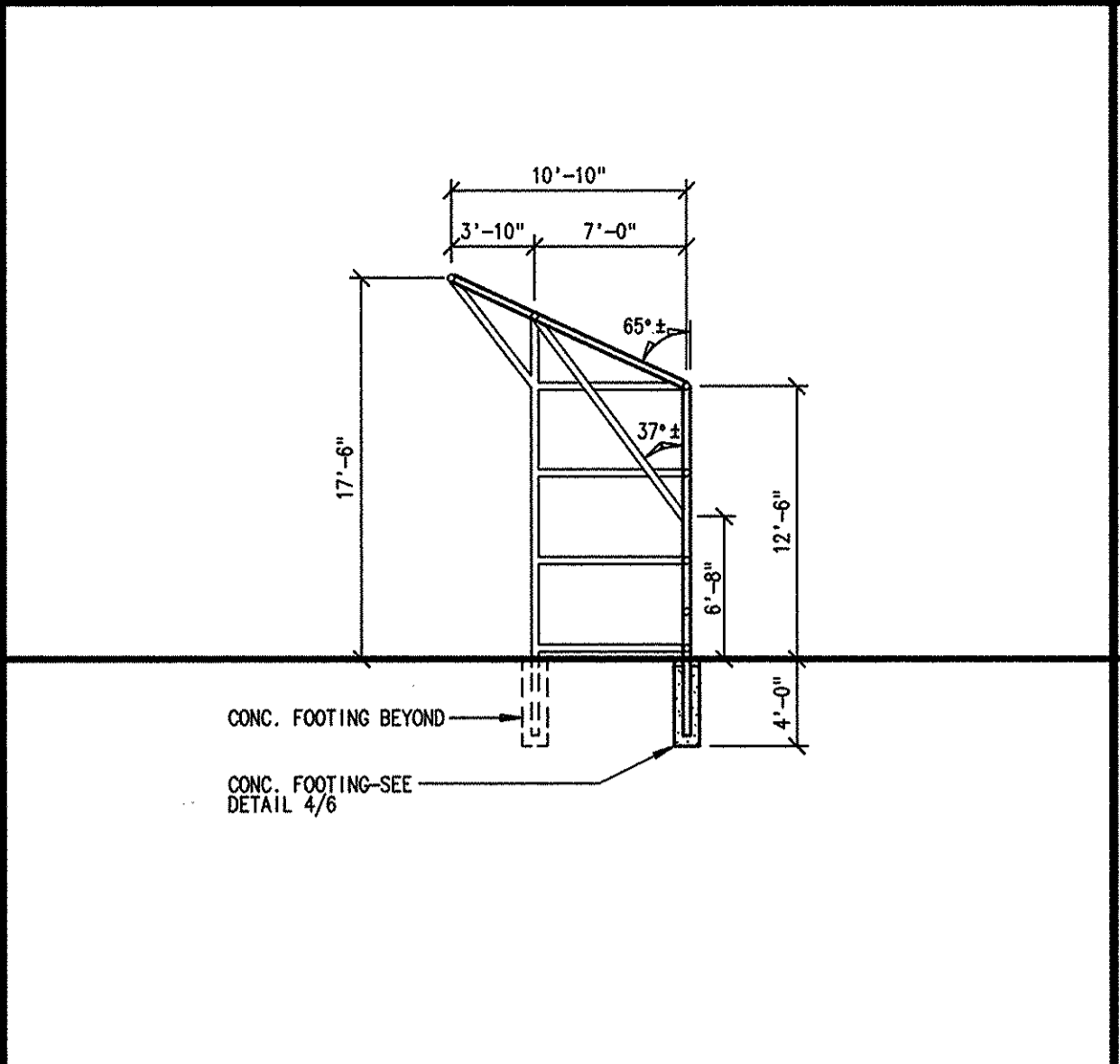
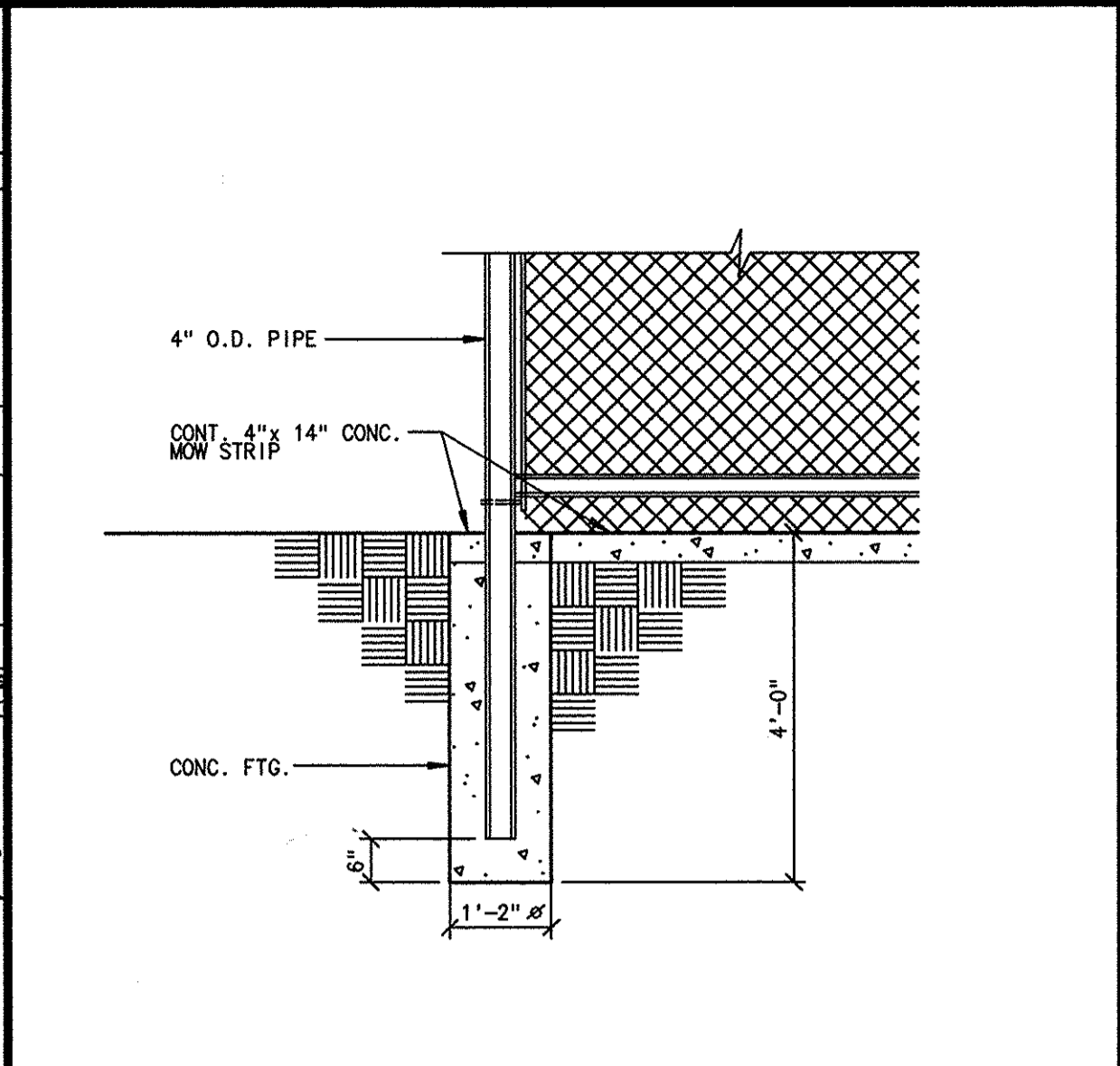
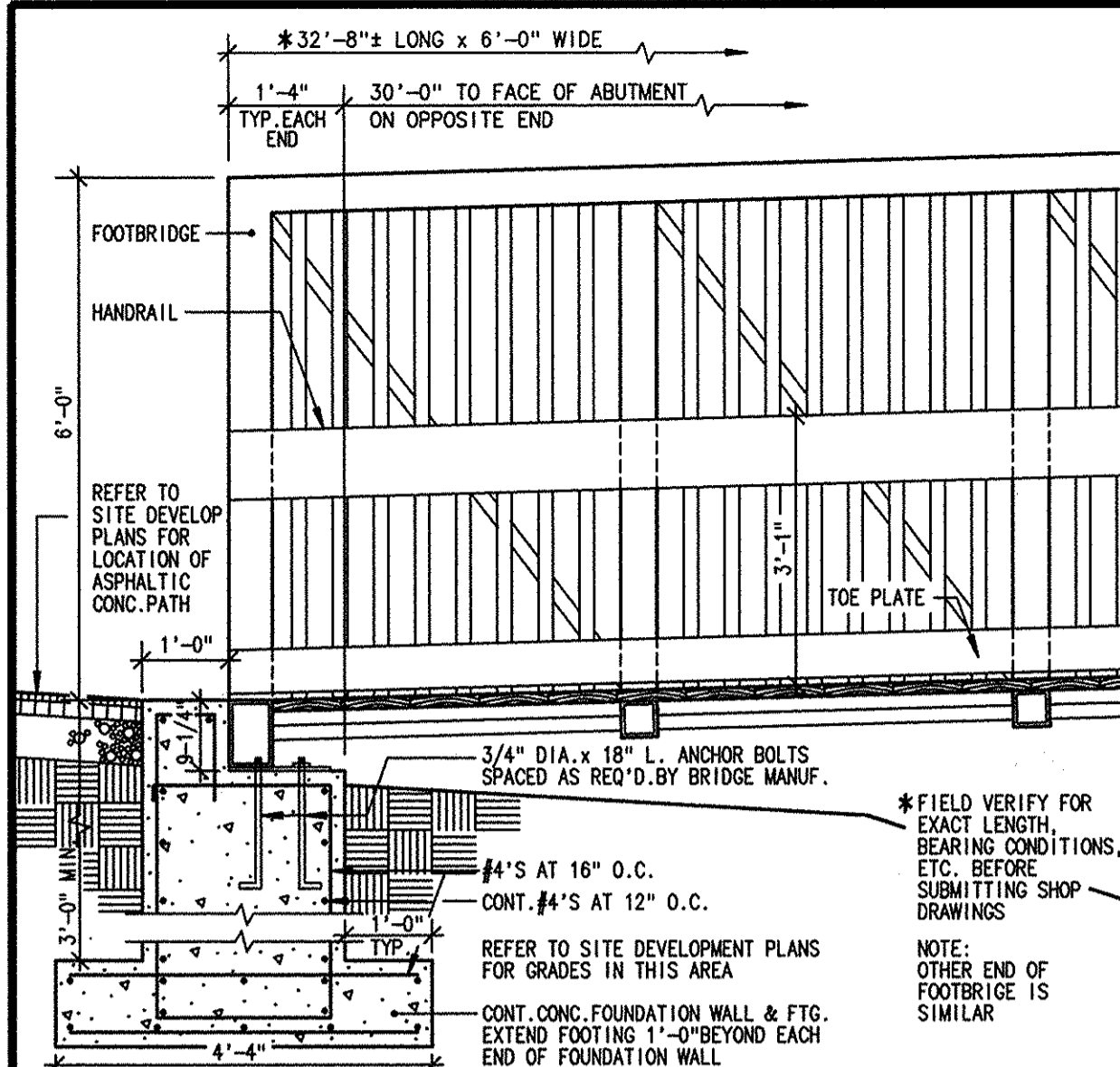
project no. 9605

WESTERN MIDDLE SCHOOL NO. 2  
Howard County, Maryland  
Howard County Public School System



tca  
Thomas Clark Associates Architects  
Annapolis, Maryland





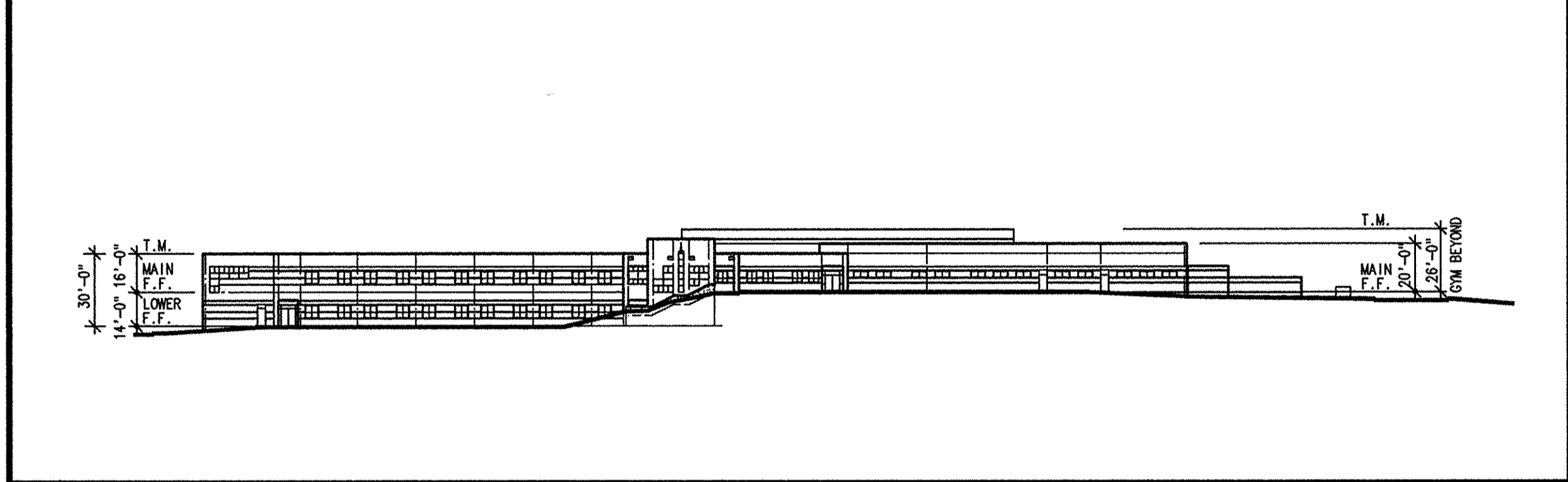
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6 FOOTBRIDGE DETAIL 1/2 4/6

1/2 3/6 BACKSTOP FOOTING DETAIL 1/2 4/6

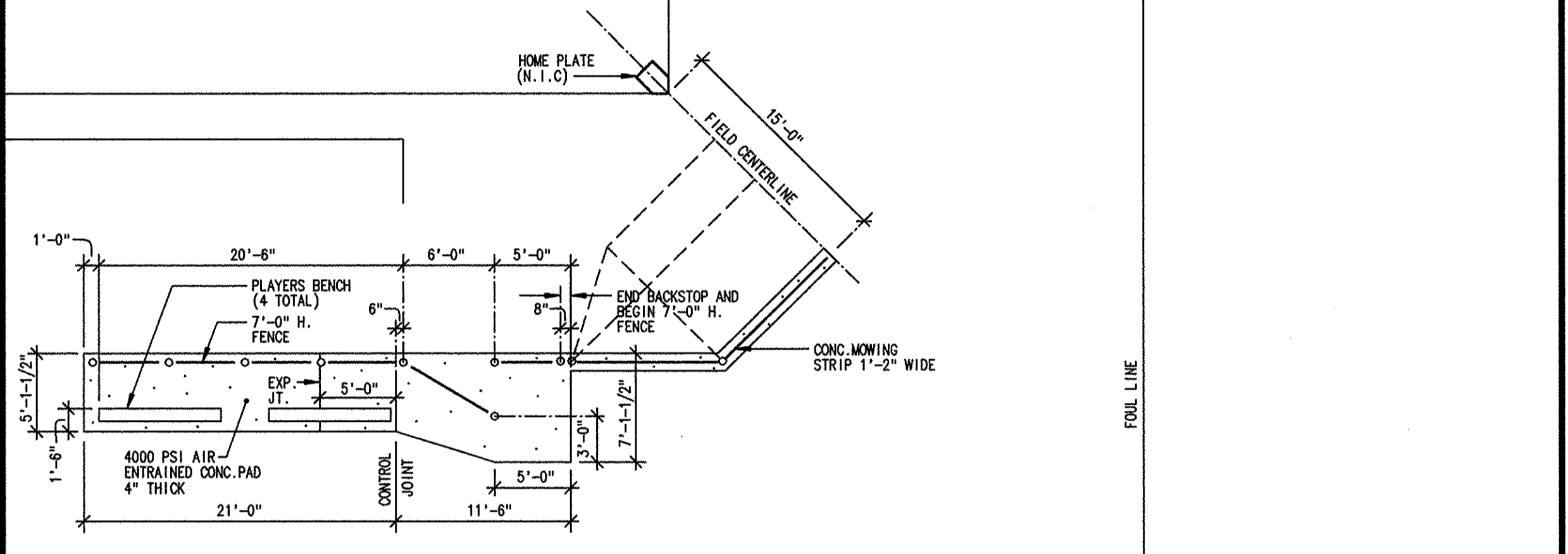
1/8 2/6 SOFTBALL BACKSTOP SECTION 1/8 2/6

1/8 1/6 SOFTBALL BACKSTOP ELEVATION 1/8 1/6

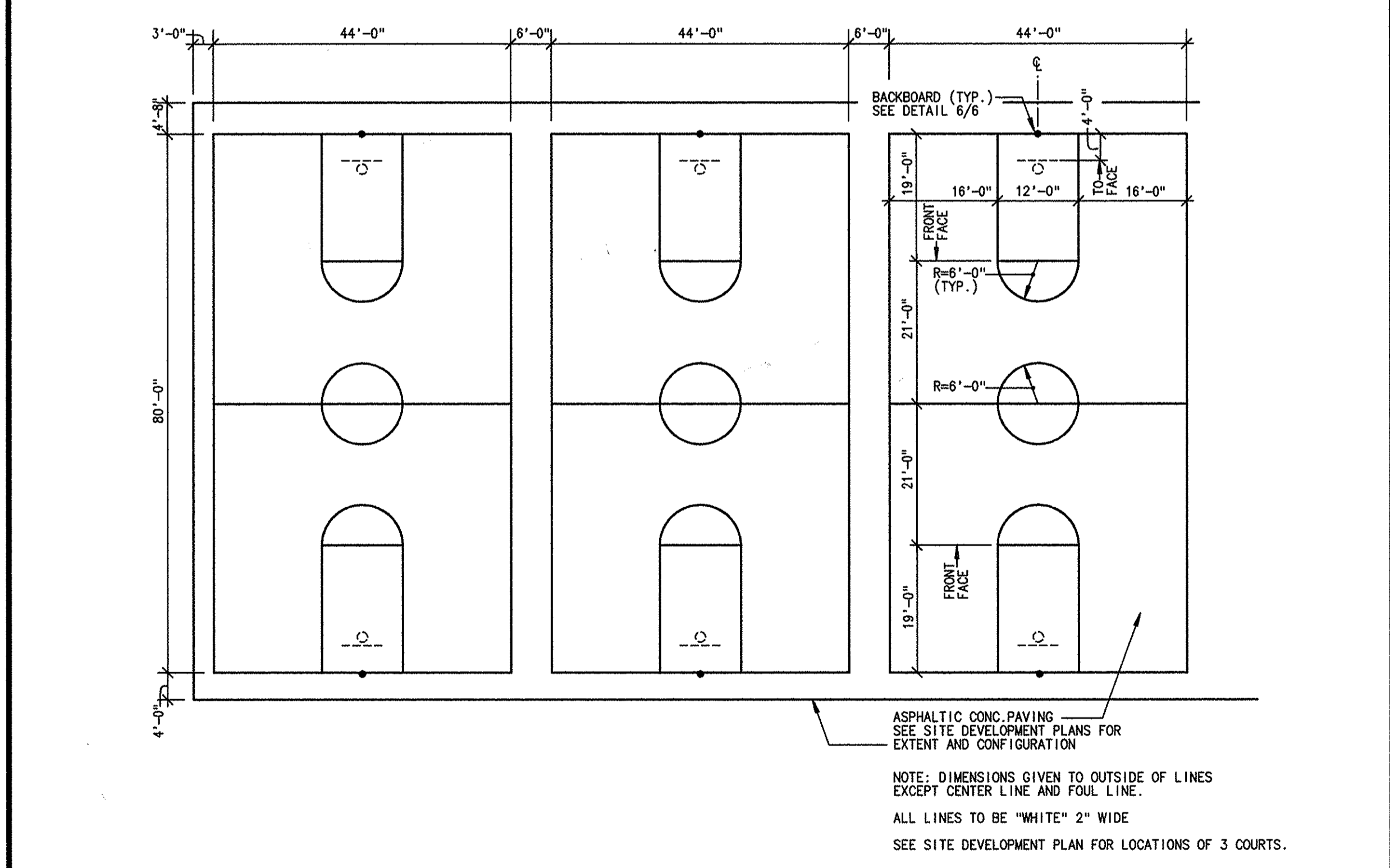
1/8 1/8 SOFTBALL BACKSTOP PLAN 1/8 1/8



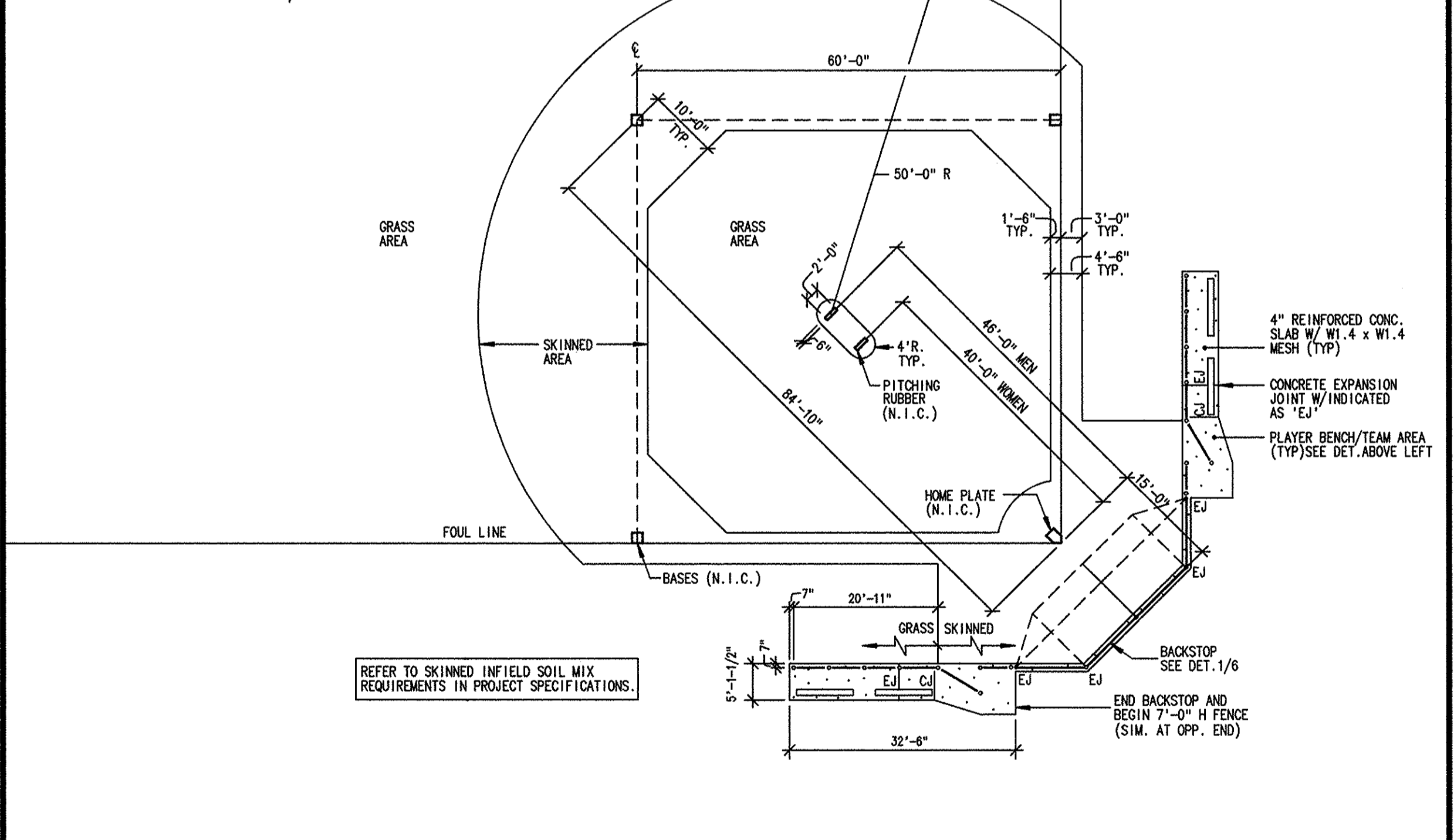
8  
6 EAST ELEVATION (FACING BUS LOOP) 1/1 50



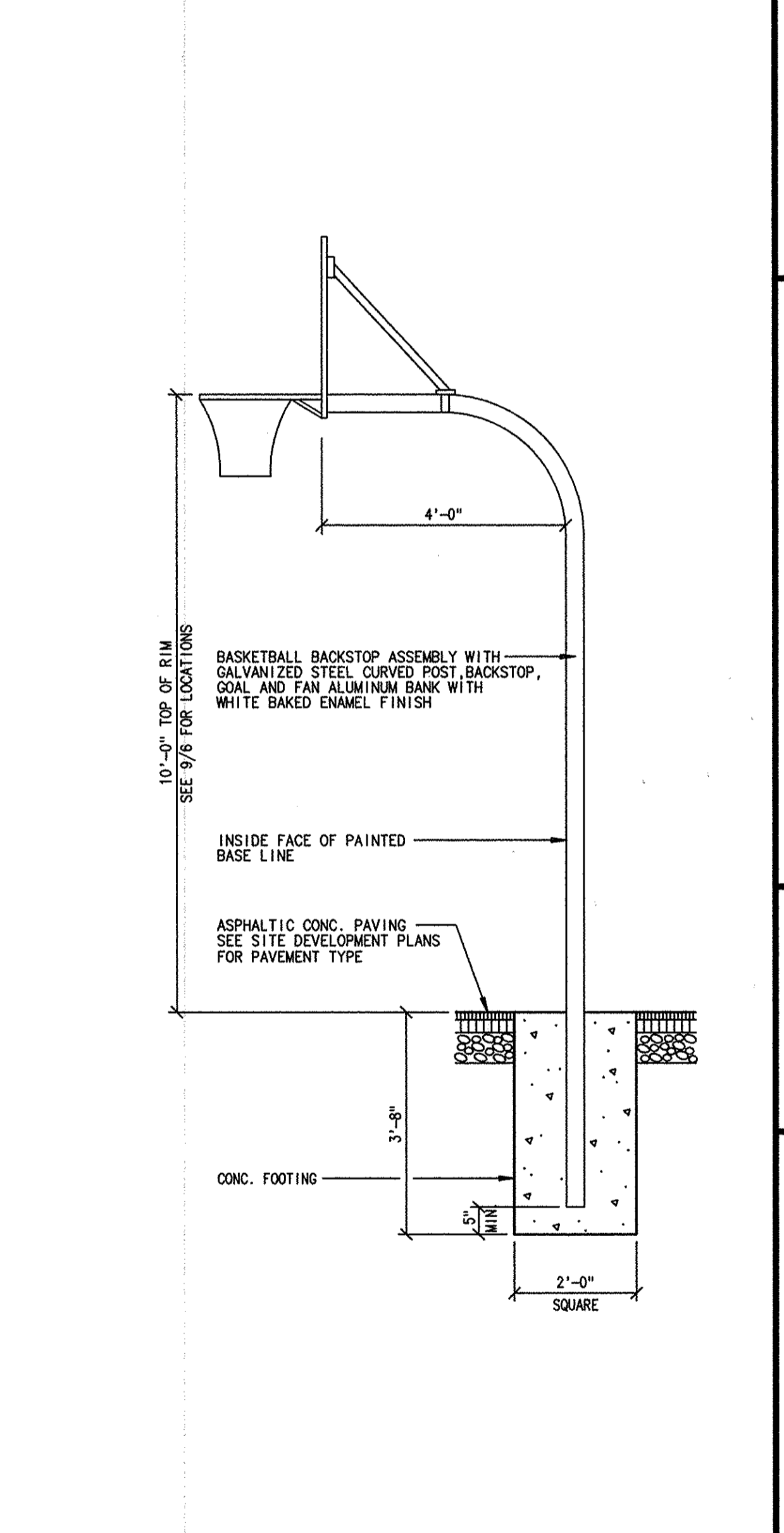
PLAYER BENCH/TEAM AREA DETAIL SCALE: 1/8" = 1'-0"



9  
6 BASKETBALL COURTS - STRIPING DETAIL 1/16 7/6



SOFTBALL FIELD 1/16 6/6



1/2 1/2 BACKBOARD DETAIL 1/2 1/2

TCA ARCHITECTS  
2661 RIVA ROAD SUITE 120  
ANNAPOLIS, MARYLAND 21401  
410-841-6205

OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director: *[Signature]* DATE: 9/29/97  
 Chief, Division of Land Development: *[Signature]* DATE: 9/29/97  
 Chief, Development Engineering Division: *[Signature]* DATE: 9/29/97

SITE DETAILS

WESTERN MIDDLE SCHOOL NO. 2

TAX MAP NO: 41/46 PARCEL: 115  
5TH ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN

WESTERN MIDDLE SCHOOL NO. 2  
Howard County, Maryland  
Howard County Public School System

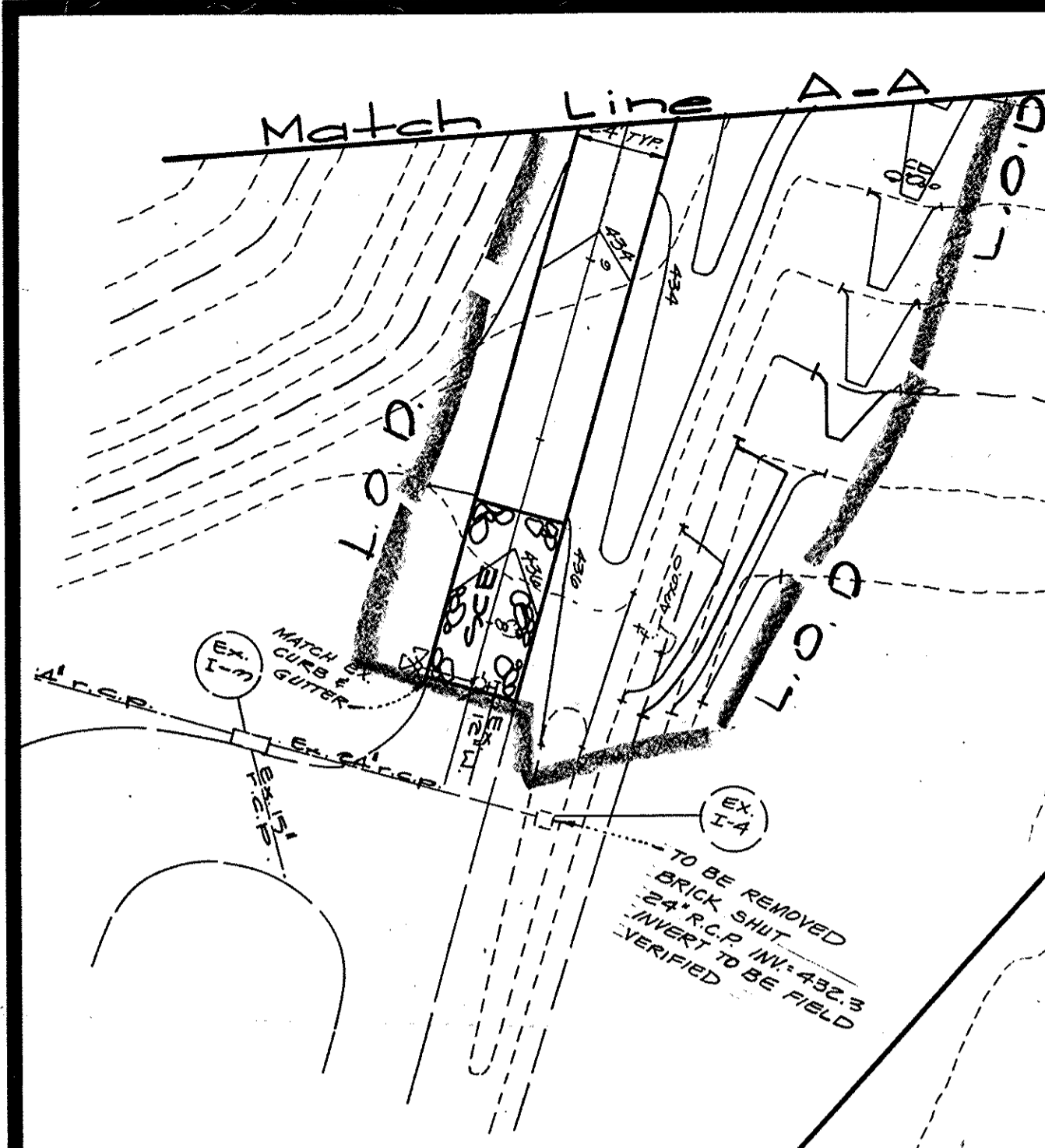
BOARD OF ARCHITECTS  
2288  
THOMAS JOSEPH G. BERRY, ARCHITECT  
STATE OF MARYLAND

tca  
Thomas Clark Associates Architects  
Annapolis, Maryland

SITework BID  
19 AUGUST 97

6 of 22

project no. 9605



- Legend**
- Existing Contour
  - - - Initial Grading Contour
  - Prop./Ultimate Grading Contour
  - Spot Elevation
  - Existing Storm Drain
  - Prop. Storm Drain
  - Silt Fence
  - Super Silt Fence
  - Orange Safety Fence
  - Existing Earth Dike
  - Earth Dike
  - I.P. Inlet Protection
  - I.B. Inlet Blocking
  - Stone Construction Entrance
  - ⊠ R.P.S. Removable Pumping Station
  - L.O.D. Limit of Disturbance
  - Check Dam
  - Before Development Drainage Divide
  - After Development Drainage Divide
  - Rip rap protection

**Trap #1 Stone/Rip-Rap Outlet Sediment Trap - 6' x 12'**

**Data**

Before Dev. D.A.	5.9 AC
After Dev. D.A.	5.9 AC
Volume Required (sed. contr.)	10,000
Volume Provided	10,020 c.f. @ 409.70
Temp SWM (1000 c.f./Ac)	10,020 c.f. @ 407.00
Inv. Release Orifices (6" PVC)	407.00
Vol. Required SWM	27,185 c.f.
Vol. Provided SWM	21,700 c.f. @ 410.10
Bottom Elev.	404.00
Top of Dam Elev.	412.10
Weir Crest Elev.	410.10
Weir Channel Depth	2.0'
Weir Crest Width	12.0'
Cleanout Elev.	404.00'
Q released thru 6" orifices	2.8 c.f.s

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.

*Clayton Simmons*  
Natural Resources Conservation Supervisor  
9/24/97  
Date

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

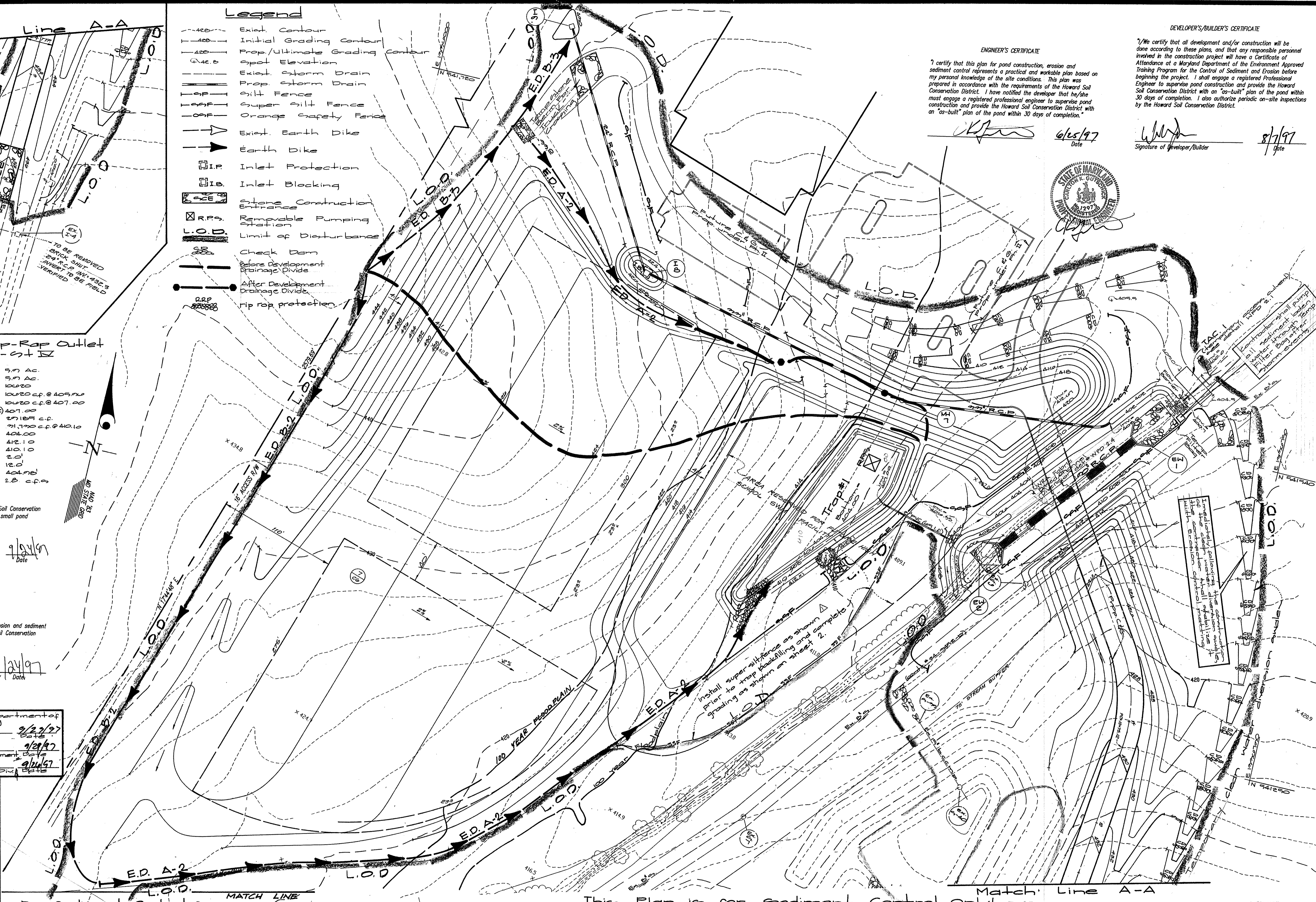
*Robert W. Schum*  
Howard Soil Conservation District  
9/24/97  
Date

Approved: Howard County Department of Planning & Zoning

*David S. Smith* 9/23/97  
Director

*Cindy Hamilton* 9/29/97  
Chief, Division of Land Development

*Bill Vannoy* 9/24/97  
Chief, Development Engineering



**ENGINEER'S CERTIFICATE**

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*[Signature]* 6/25/97  
Date

*[Signature]* 8/7/97  
Signature of Developer/Builder Date



For sediment control for Foot Bridges see sheet C-11.

This Plan is for sediment control only!  
Do Not Use For Other Site Improvements!

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP.
9-10-97	Rev. plan to show S&S downhill of Trap #1 w/ note.	MCF	

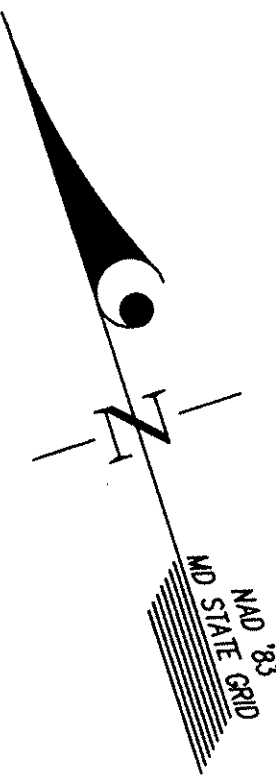
PREPARED FOR:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

Sediment Control Plan (Phase I)

**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 115  
L.9218 F. 618

CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

DES.:	SCALE	ZONING	G.L.W. FILE NO.
DRN.:	1" = 40'	RR-DEO (MXD-2)	90100
CHK.:	DATE	TAX MAP NO.	SHEET
	8-11-97	41/400	7 of 22



DEVELOPER'S/BUILDER'S CERTIFICATE

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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature of Developer/Builder: *WJW* Date: 8/7/97

ENGINEER'S CERTIFICATE

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Signature of Engineer: *CKW* Date: 6-25-97

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: *Cheryl Simmons* Date: 9/24/97  
Natural Resources Conservation Service

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

Signature of District Representative: *Robert W. Johnson* Date: 9/24/97  
Howard Soil Conservation District

Approved: Howard County Department of Planning & Zoning  
Director: *Joseph Kulla* 9/29/97  
Chief, Division of Land Development: *Cindy Hamilton* 9/29/97  
Chief, Development Engineering Div.: *Whitcomb* 9/29/97

Storm	Q Ex	Q to Basin	Q out	Basin WSEL
2 year	7.4	70.4	1.5	409.11
10 year	19.0	51.5	16.2	404.07

Legend

- 420- - - - - Exist. Contour
- 420 - - - - - Initial Grading Contour
- 420 - - - - - Prop./Ultimate Grading Contour
- 442.0 - - - - - Spot Elevation
- - - - - Exist. Storm Drain
- - - - - Prop Storm Drain
- - - - - Silt Fence
- - - - - Super Silt Fence
- - - - - Orange Safety Fence
- - - - - Exist. Earth Dike
- - - - - Earth Dike
- - - - - I.P. Inlet Protection
- - - - - I.B. Inlet Blocking
- - - - - Stone Construction Entrance
- - - - - R.P.S. Removable Pumping
- - - - - L.O.D. Limit of Disturbance
- - - - - Check Dam

This Plan is for Sediment & Erosion Control Only! Do Not Use For Other Site Improvements.

--- Before Development Drainage Divide  
--- After Development Drainage Divide

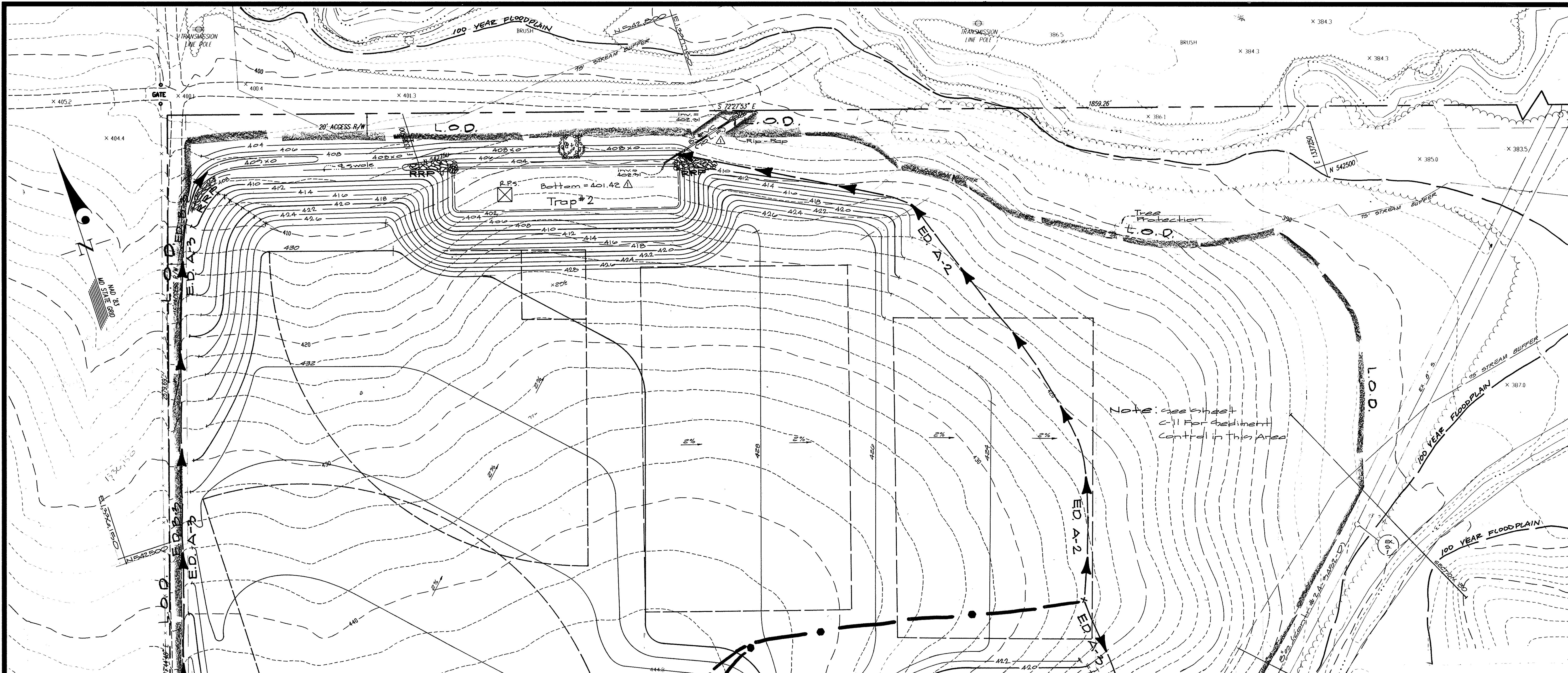
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20886  
TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN.: klf CHK.

DATE	REVISION	BY	APPR.

OWNER:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

Sediment Control Plan (Phase II)  
**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 115  
L9218 F.618  
CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO (MXD-3)	G. L. W. FILE No. 96100
DATE 8-11-97	TAX MAP No. 41/46	SHEET 8 of 22



**Trap #2 Stone/Rip-Rap Outlet Sediment Trap S.I. Data**

Before Dev. D.A. = 2.18 Ac.  
 After Dev. D.A. = 0.59 Ac.  
 Volume Required = 33,048 CF  
 Volume Provided = 43,451 CF  
 Volume Wet Storage = 16,524 CF @ elev. 402.31

Volume Dry Storage = 43,451 CF @ elev. 404.06  
 Bottom elev. = 401.42  
 Top of Dam elev. = 406.00  
 Weir crest elev. = 406.00  
 Weir channel depth = 2.0'  
 Weir crest width = 12.0'  
 Cleanout elev. = 401.87

Inv. @ PVC = 402.31  
 Before Dev.  $Q = 1.71 \text{ cfs}$   
 After Dev. Discharge = 0.18 cfs

- Legend**
- RRP Rip Rap Protection
  - 420--- Exist. Contour
  - 420--- Initial Grading Contour
  - 420--- Prop./Ultimate Grading Contour
  - 420.0 Spot Elevation
  - Exist. Storm Drain
  - Prop. Storm Drain
  - SF--- Silt Fence
  - SSF--- Super Silt Fence
  - OSF--- Orange Safety Fence
  - >--- Exist. Earth Dike
  - >--- Earth Dike
  - IP Inlet Protection
  - IB Inlet Blocking
  - Stone Construction Entrance
  - RRP Removable Pumping Station
  - L.O.D. Limit of Disturbance
  - Check Dam
  - Before Development Drainage Divide
  - After Development Drainage Divide

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

**ENGINEER'S CERTIFICATE**

"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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Developer/Builder: *W.M.G.* Date: 8/1/97

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.

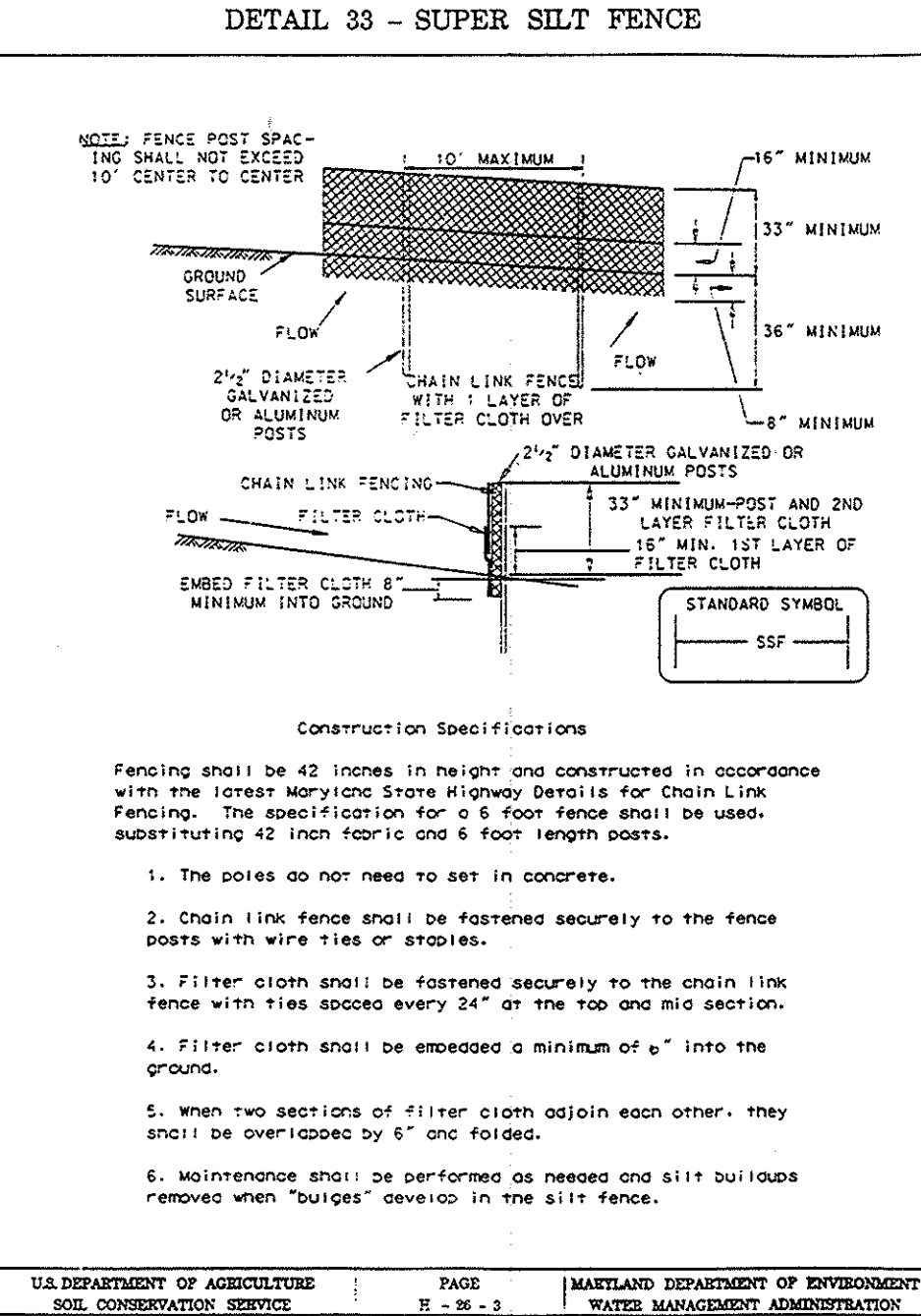
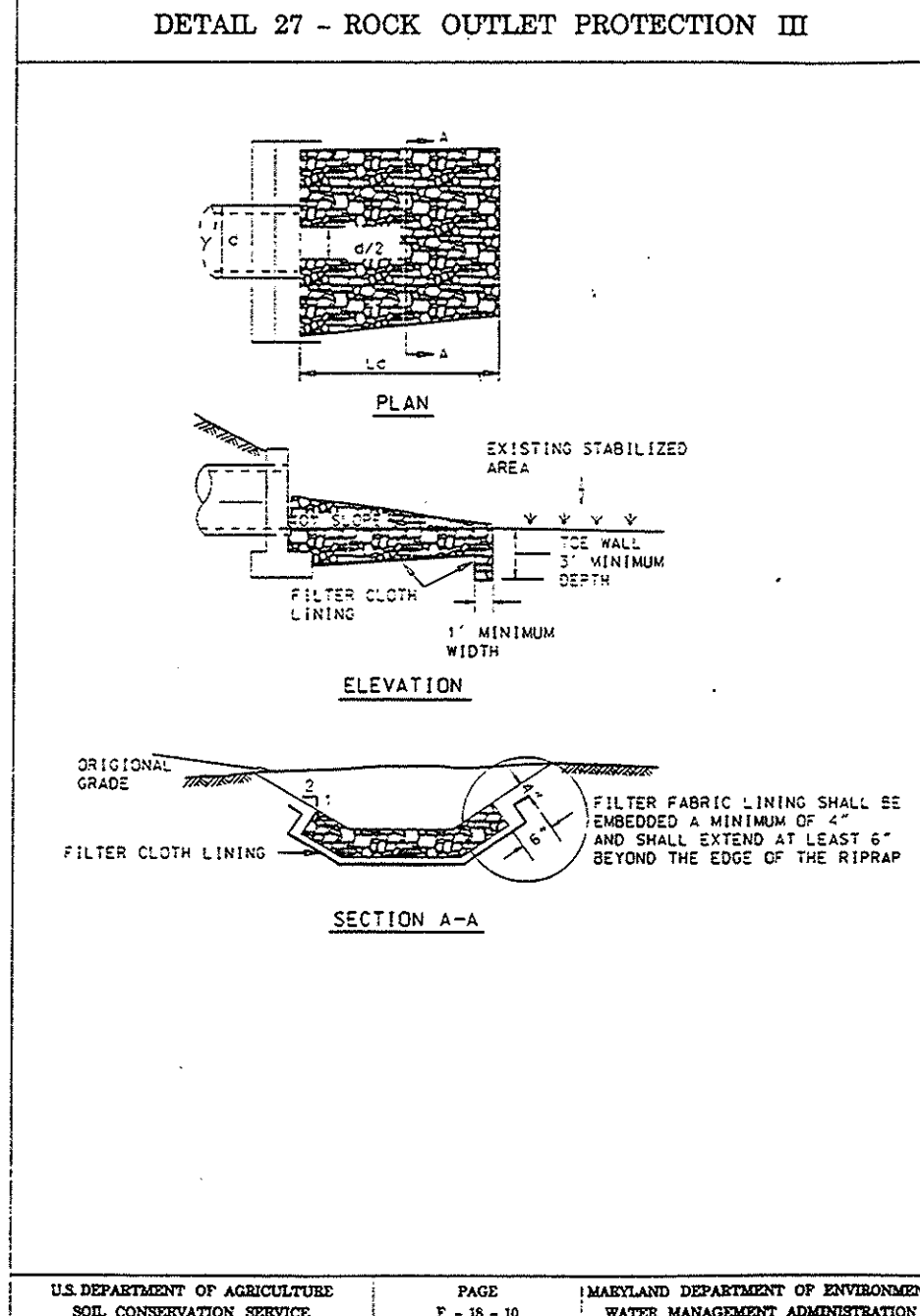
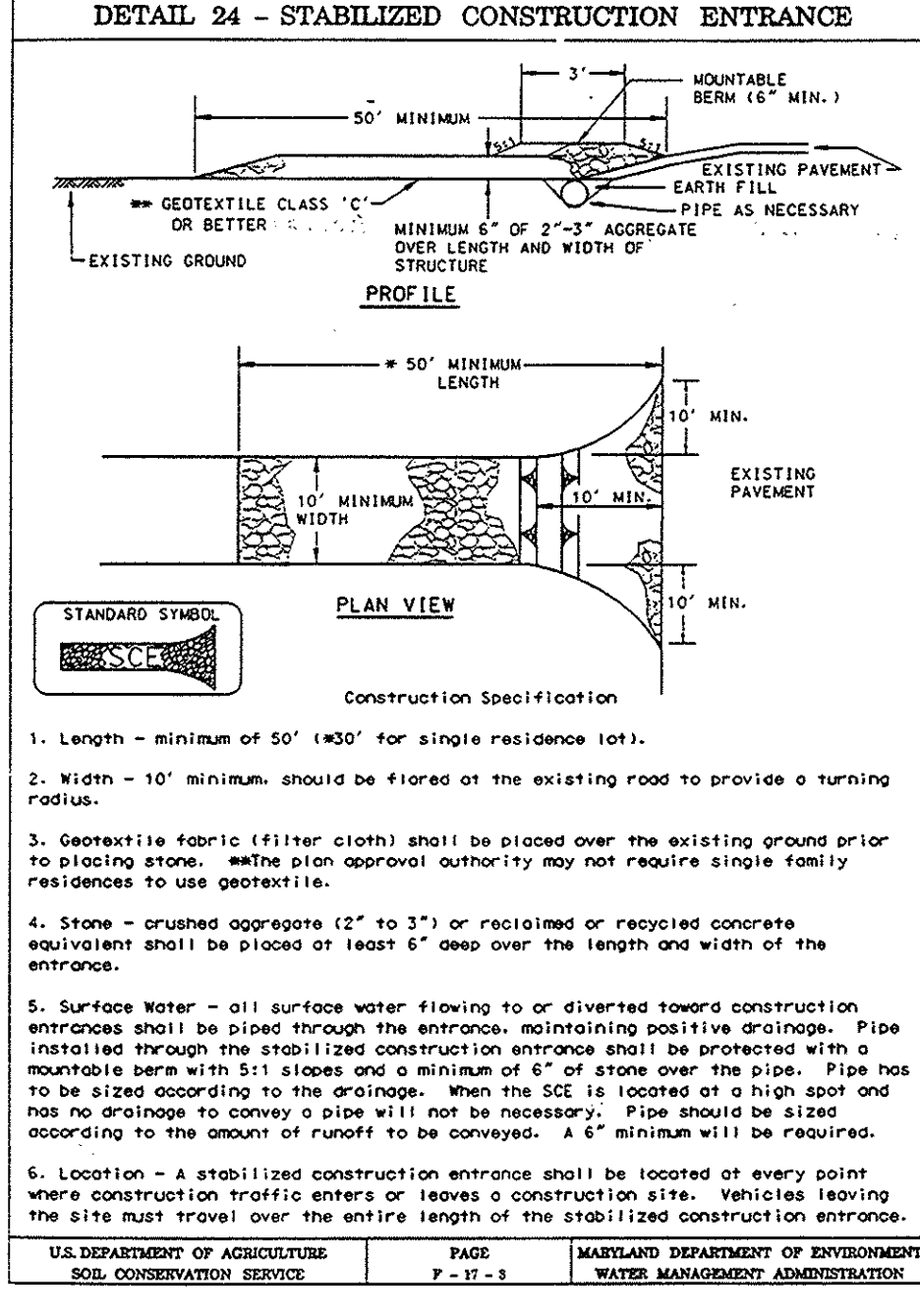
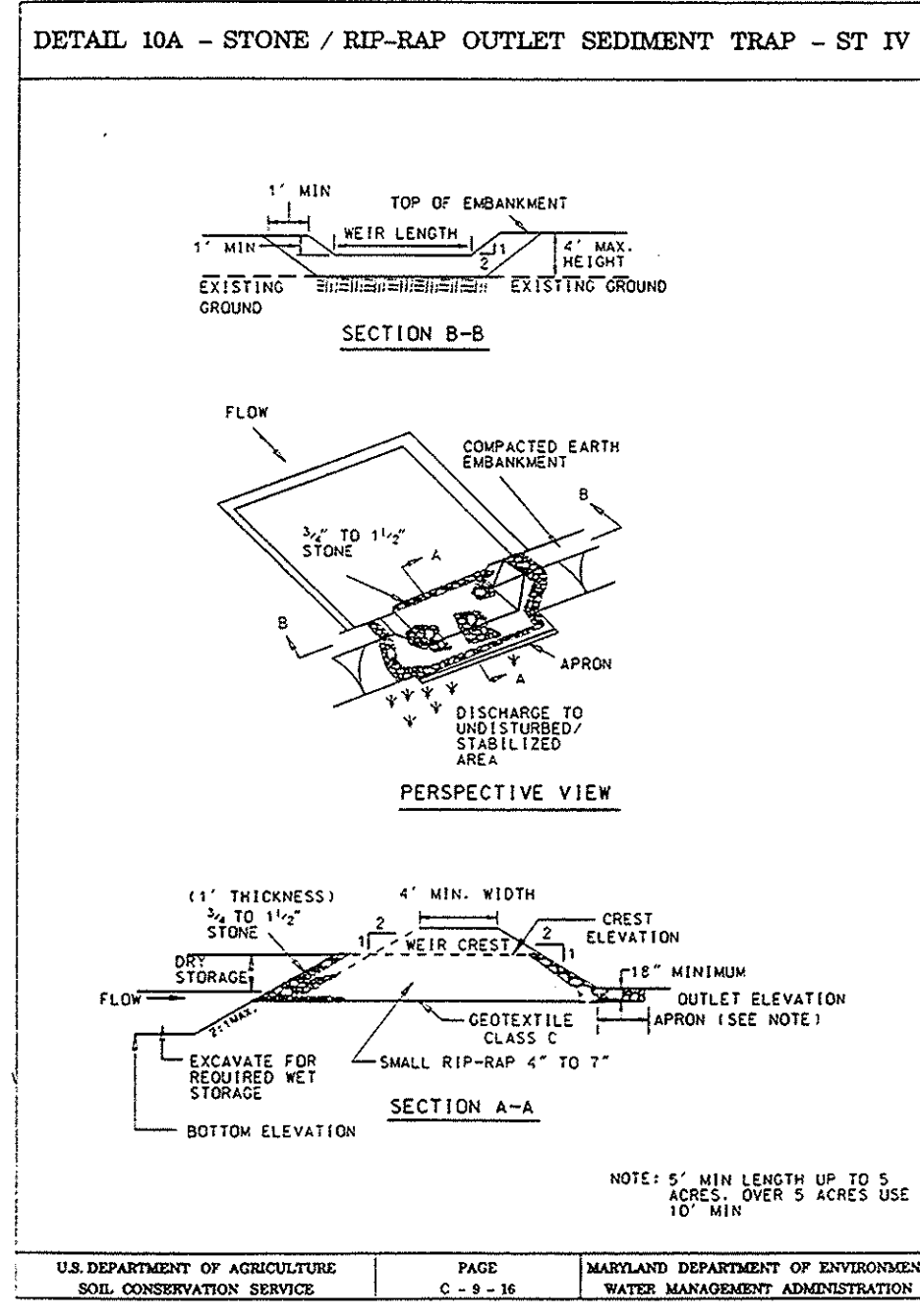
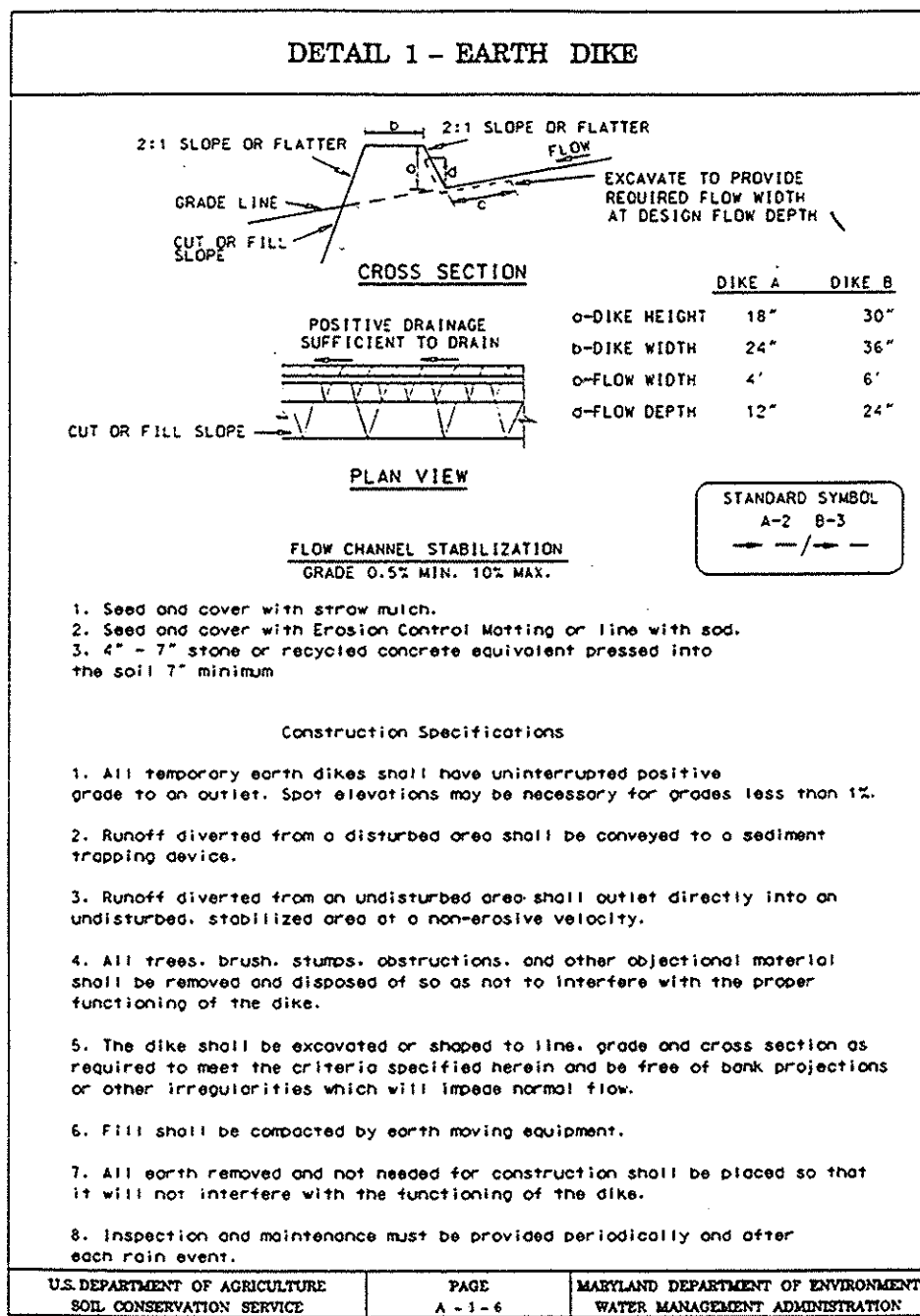
Signature: *Cheryl Simmons* Date: 2/24/97  
 Natural Resources Conservation Service

Signature: *Robert W. Zick* Date: 9/24/97  
 Howard Soil Conservation District  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 1979

Approved: Howard County Department of Planning & Zoning  
*David S. Kuster* 9/23/97  
 Chief of Department of Land Development & Zoning  
*Candy Hamilton* 9/29/97  
 Chief of Department of Land Development & Zoning  
*Allen Simmons* 9/24/97  
 Chief of Development Engineering

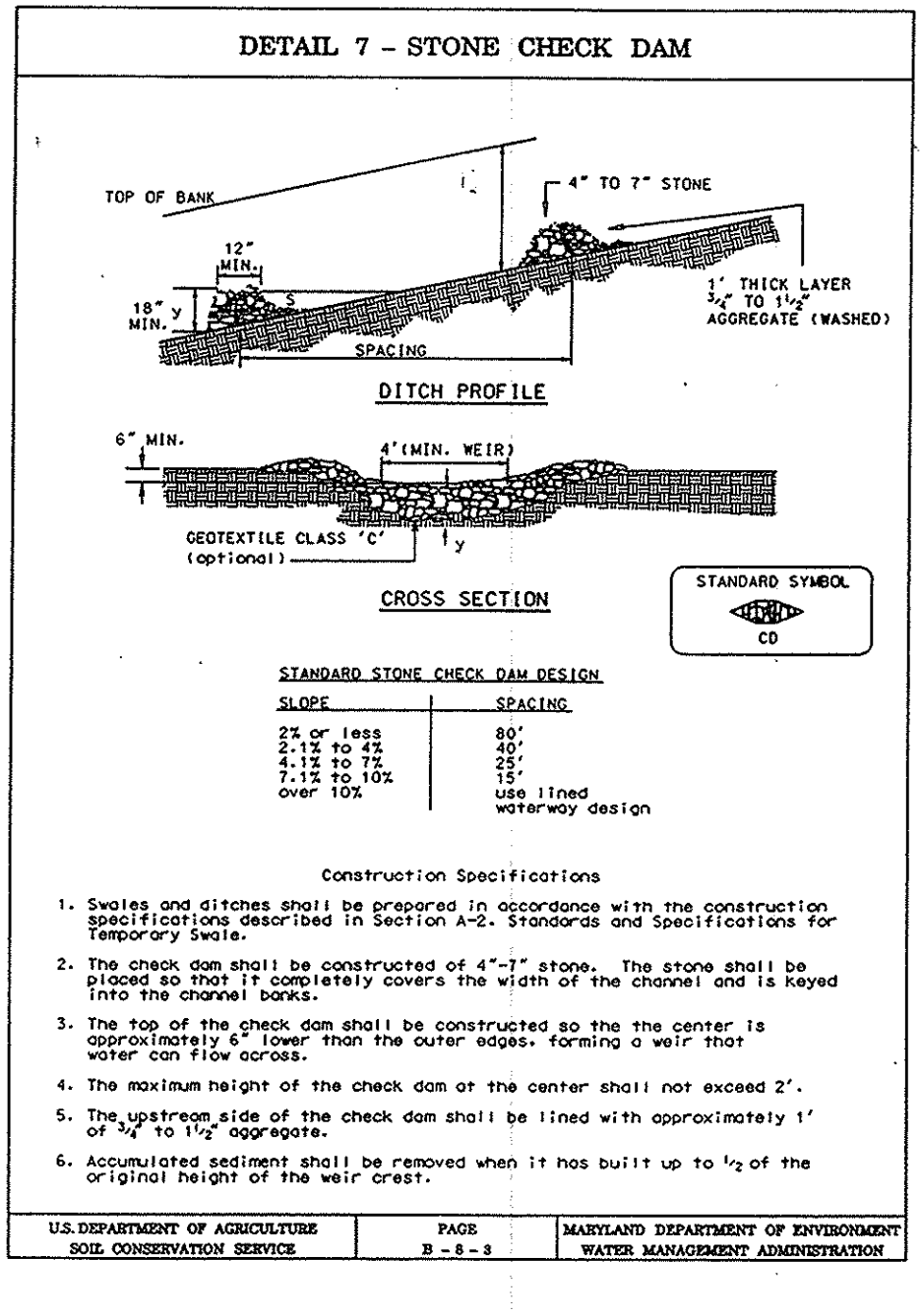
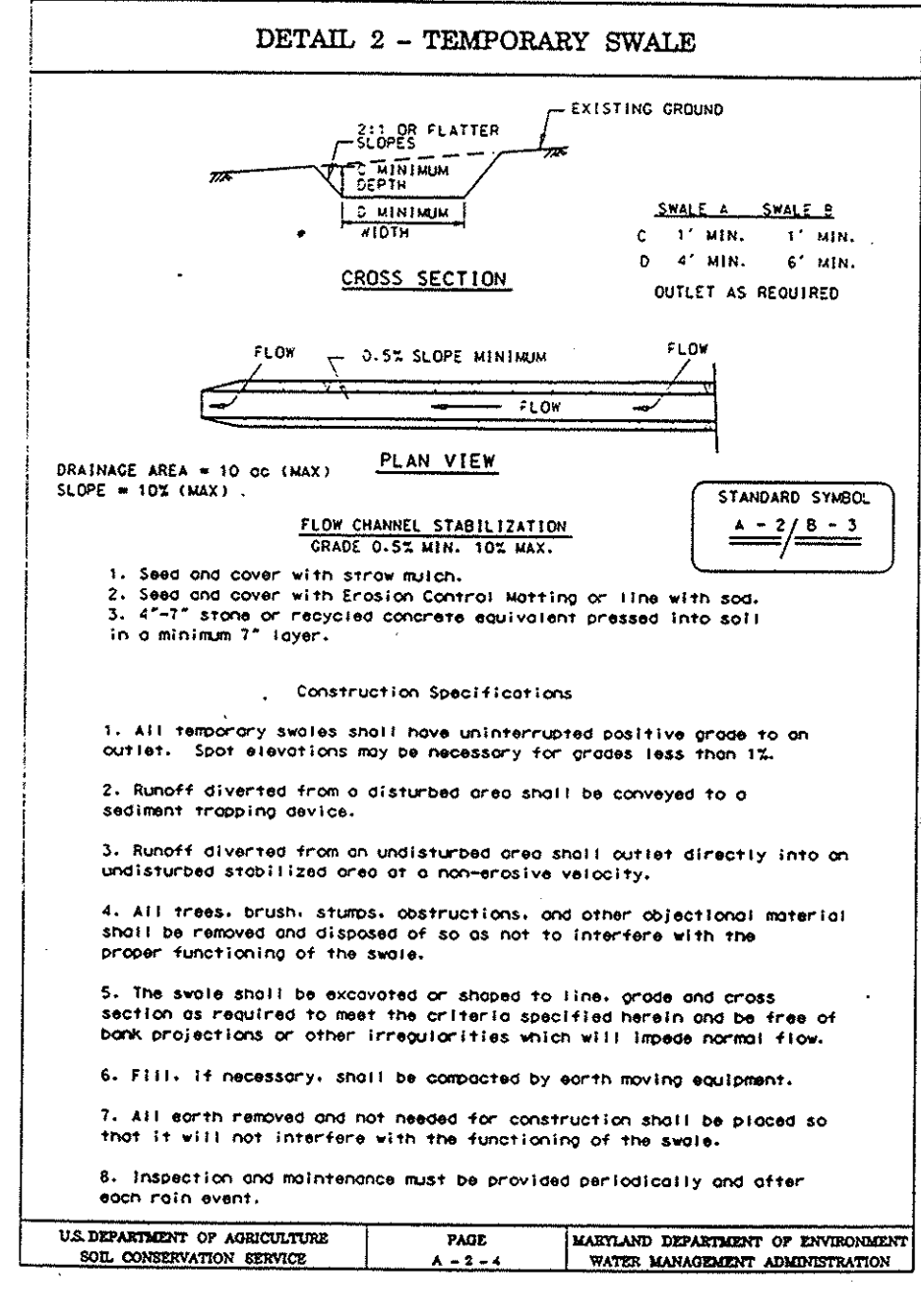
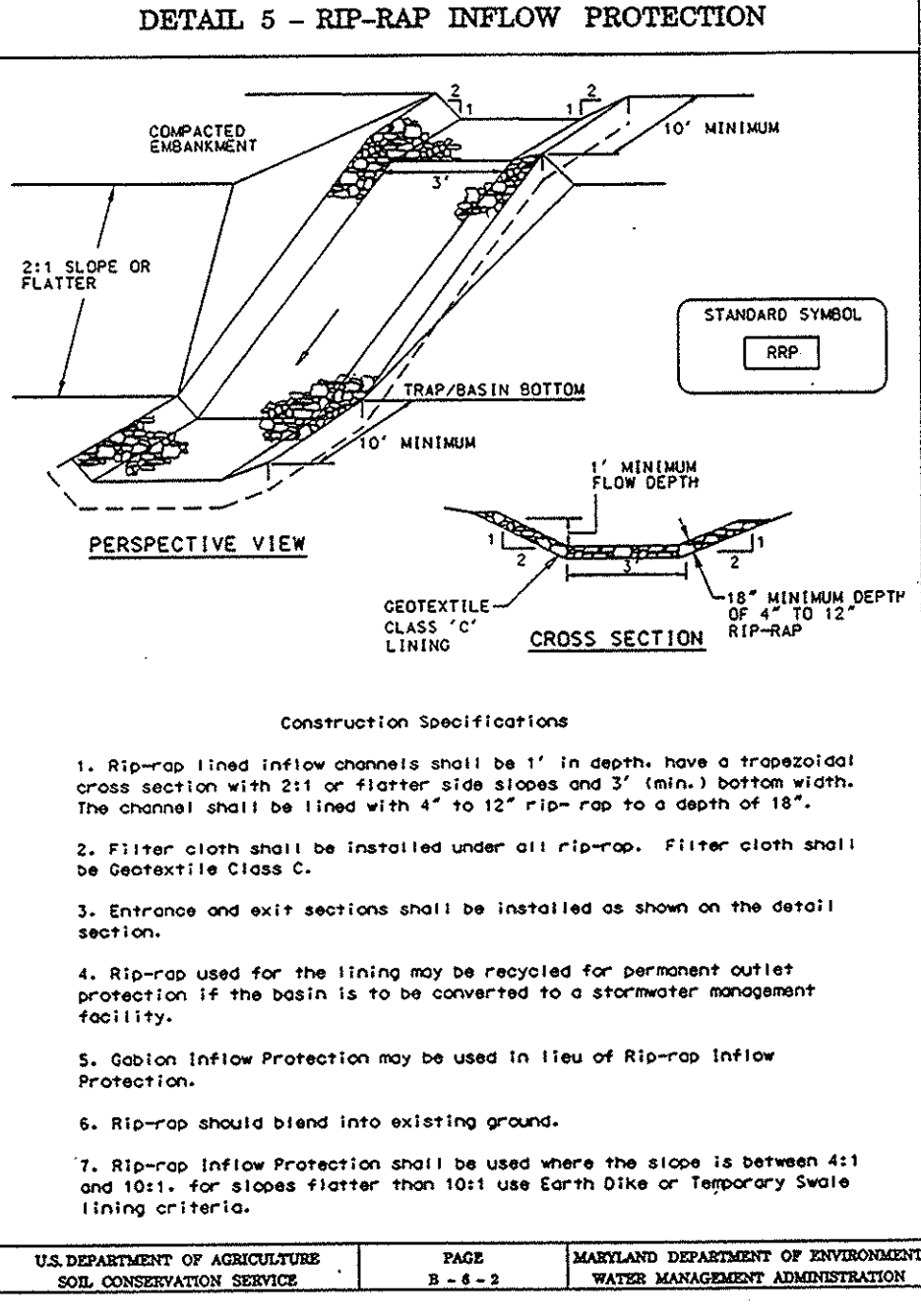
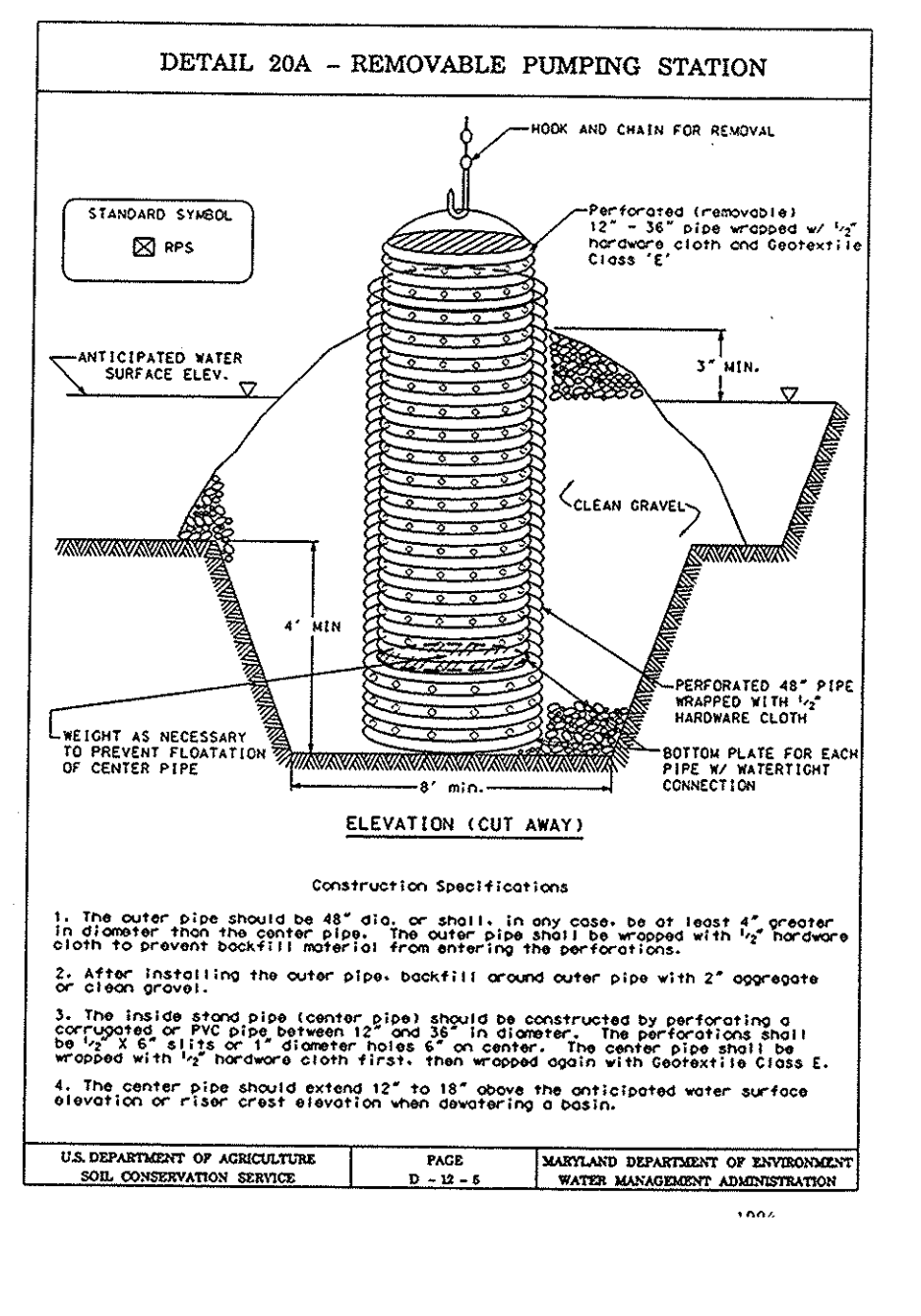
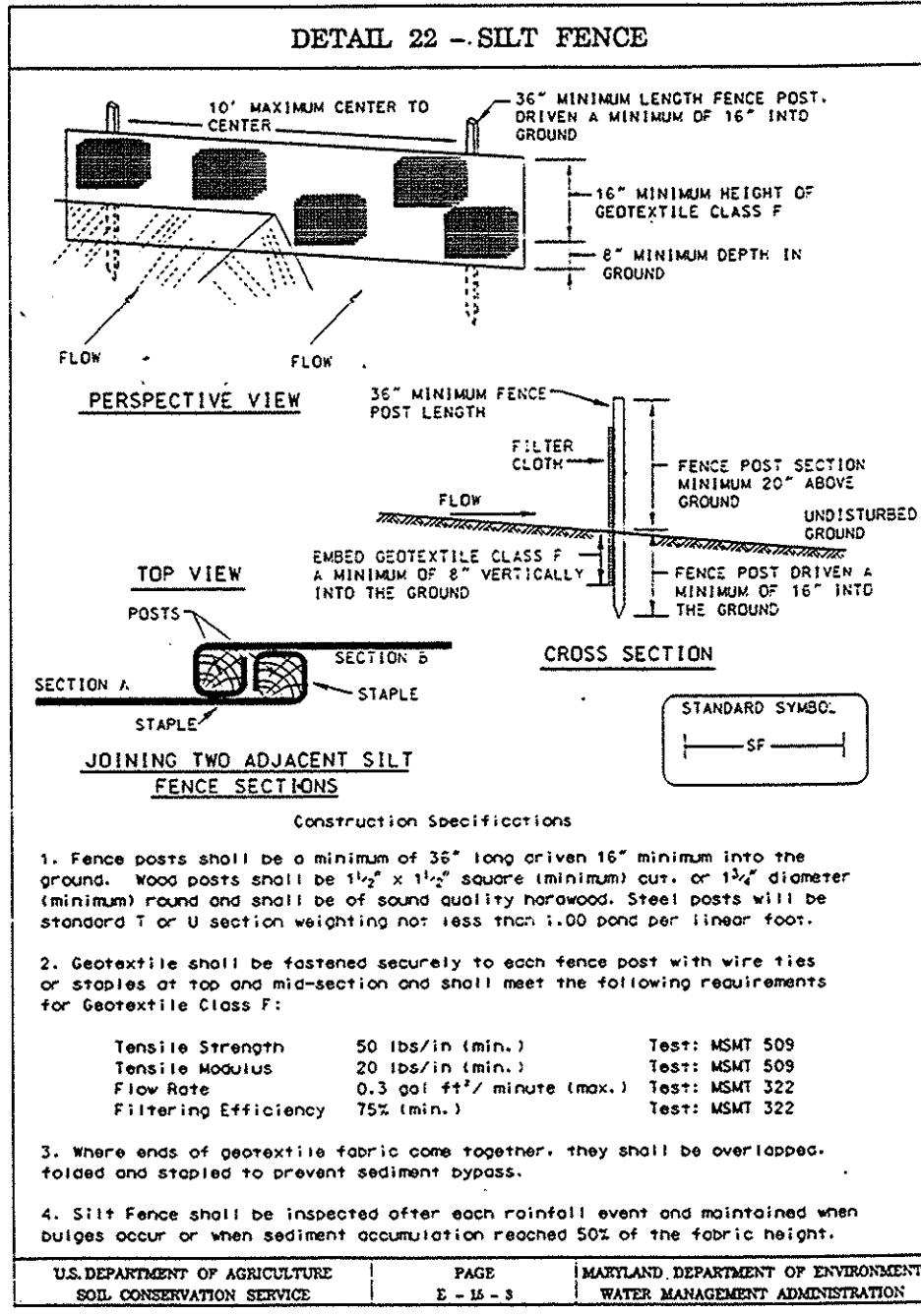
**This Plan is for Sediment Control Only!  
 Do Not Use For Other Site Improvements!**

<b>GLW GUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866		<b>OWNER:</b> HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043 ATTN: BILL GRAU		<b>Sediment Control Plan (Phase II)</b> <b>WESTERN MIDDLE SCHOOL No. 2</b> PARCEL 115 L2218 F 018 CLARKSVILLE ELECTION DISTRICT No. 5		SCALE: 1" = 40' DATE: 8-11-1997		ZONING: RR-DEO (MXD-3) TAX MAP No. 41/46 SHEET 2 OF 22		G. L. W. FILE No. 96100 19 AUGUST 97	
DES.	DRN.	CHK.	DATE	REVISION	BY	APP'R.					
			7-10-97	Rev. Trap #2, lower bottom, show on 8" PVC outlet w/rip-rap and rev. trap data chart.	McF						



#### SEEDING CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting 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: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. For permanent seedings (Sec. 3), seed (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with much alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operating condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
  - Total Area of Site: 101,252 Acres
  - Area Disturbed: 32,072 Acres
  - Area to be seeded or mulched: 4,672 Acres
  - Area to be vegetatively stabilized: 2,872 Acres
  - Total: 178,000 Qu. Yds.
  - Total: 178,000 Qu. Yds.
  - Off-site waste/borrow area location: N/A.
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.



#### PERMANENT SEEDING NOTES

Apply to graded or cleared area 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 (unless previously loosened).

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc site, upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 urea/ammonia fertilizer (8 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (82 lbs/1000 square feet) 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 (14 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.5 lbs/1000 sq ft) of creeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small 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.

#### ENGINEER'S CERTIFICATE

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*Clayton J. Gutzschick* 6/25/97  
Date

*W. J. Gutzschick* 8/7/97  
Signature of Developer/Builder

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.

*Clayton J. Gutzschick* 9/24/97  
Natural Resources Conservation Specialist

Approved: Howard County Department of Planning & Zoning  
*David S. Smith* 9/22/97  
*Candy Hammit* 9/29/97  
Chief, Division of Land Development  
*John DeWitt* 9/24/97  
Chief, Development Engineering Division

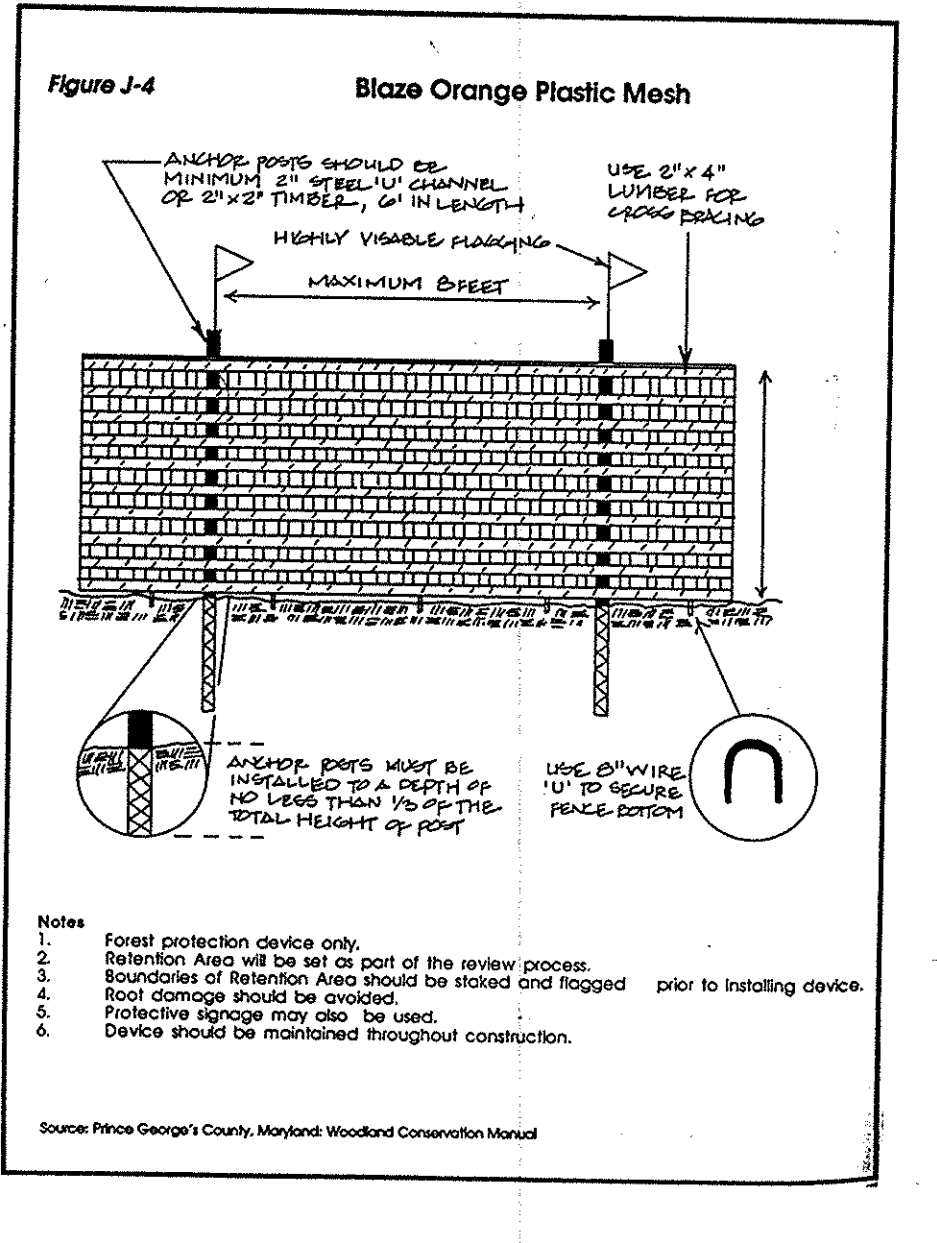
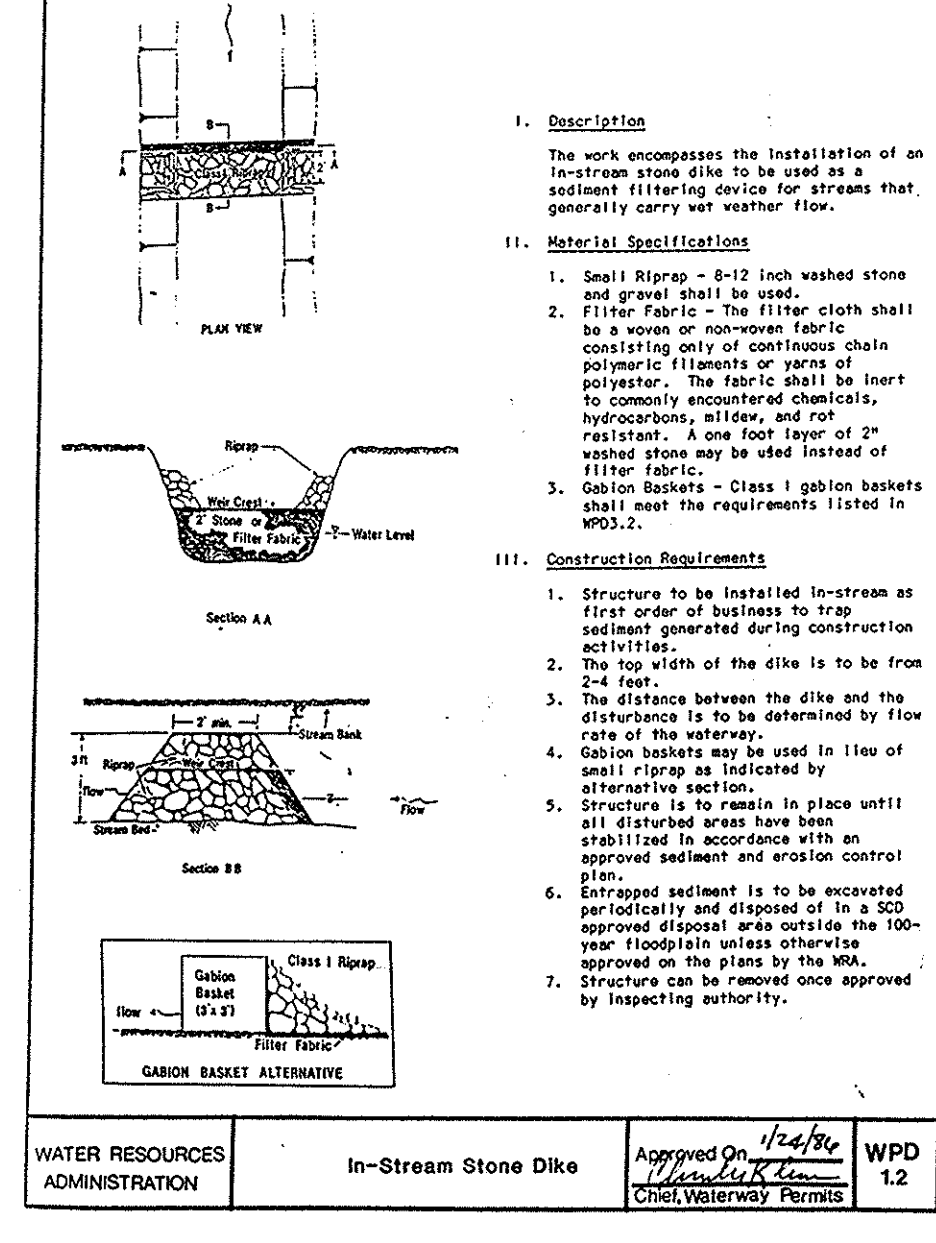
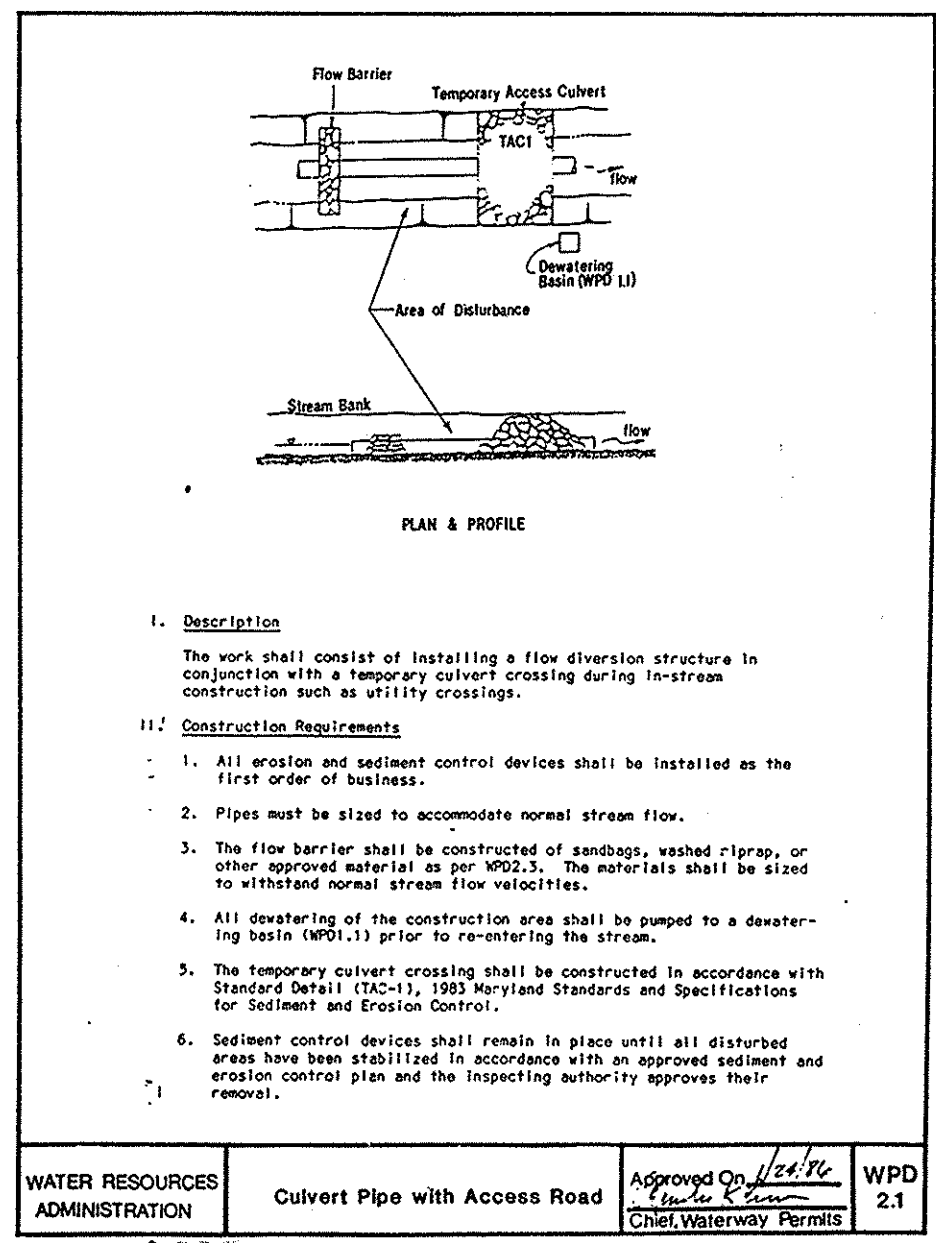
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*W. J. Gutzschick* 8/7/97  
Signature of Developer/Builder

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

*Robert W. Gutzschick* 9/24/97  
Howard Soil Conservation District



#### 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 (unless previously loosened).

Soil Amendments: Apply 600 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 bushel per acre of annual ryegrass (2.5 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of creeping lovegrass (0.75 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 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

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

These seeding notes are the minimum required for sediment control. Refer to Project Specifications for seeding requirements of other areas of the site.

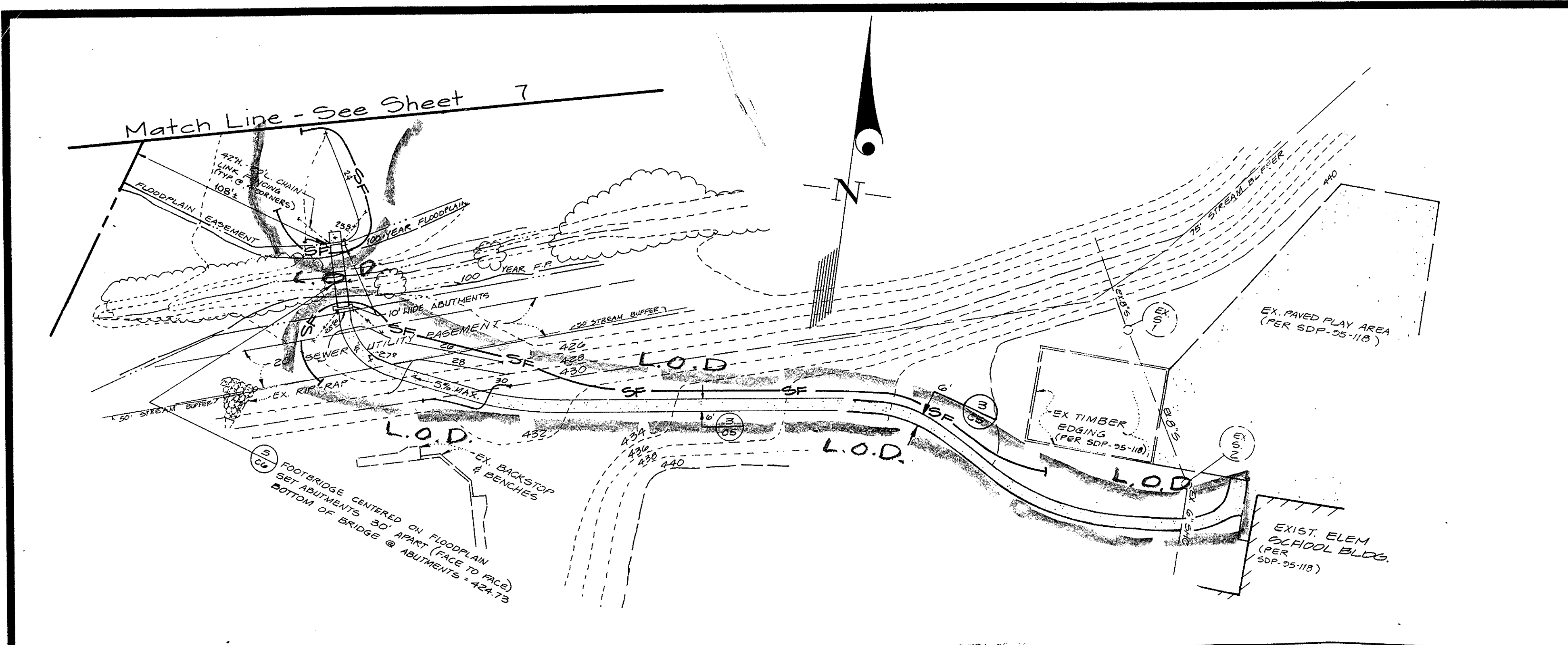
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20866  
TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM -  
10910 MARYLAND ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ BY: \_\_\_\_\_ APPR: \_\_\_\_\_

Sediment Control Notes & Details  
Western Middle School No. 2  
PARCEL 115 L9218 F.018  
Clarksville Election District No. 5 Howard County, Maryland

DES: DEY/MBT  
SCALE: No Scale  
ZONING: E-20 (17X0-3)  
G.L.W. FILE NO.: 96100  
DRN: END  
DATE: 8-11-97  
TAX MAP NO.: 41/46  
SHEET: 10 of 22  
CHK: DEY/MBT



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.

*Charles Simmons*  
Natural Resources Conservation Service

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

*Robert W. Zichner*  
Howard Soil Conservation District

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*W. J. [Signature]*  
Signature of Developer/Builder

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*OK [Signature]*  
Date: 6-25-97

- Legend**
- 420 --- Exist. Contour
  - - - 420 - - - Initial Grading Contour
  - - - 420 - - - Prop./Ultimate Grading
  - 420 --- Spot Elevation
  - 420 --- Exist. storm Drain
  - 420 --- Prop. storm Drain
  - 420 --- Silt Fence
  - 420 --- Super silt Fence
  - 420 --- Orange Safety Fence
  - 420 --- Exist. Earth Dike
  - 420 --- Earth Dike
  - 420 --- Inlet Protection
  - 420 --- Inlet Blocking
  - 420 --- Stone Construction Entrance
  - 420 --- Removable Pumping Station
  - 420 --- Limit of Disturbance
  - 420 --- Check Dam
  - 420 --- After Development Drainage Divide
  - 420 --- Rip rap protection

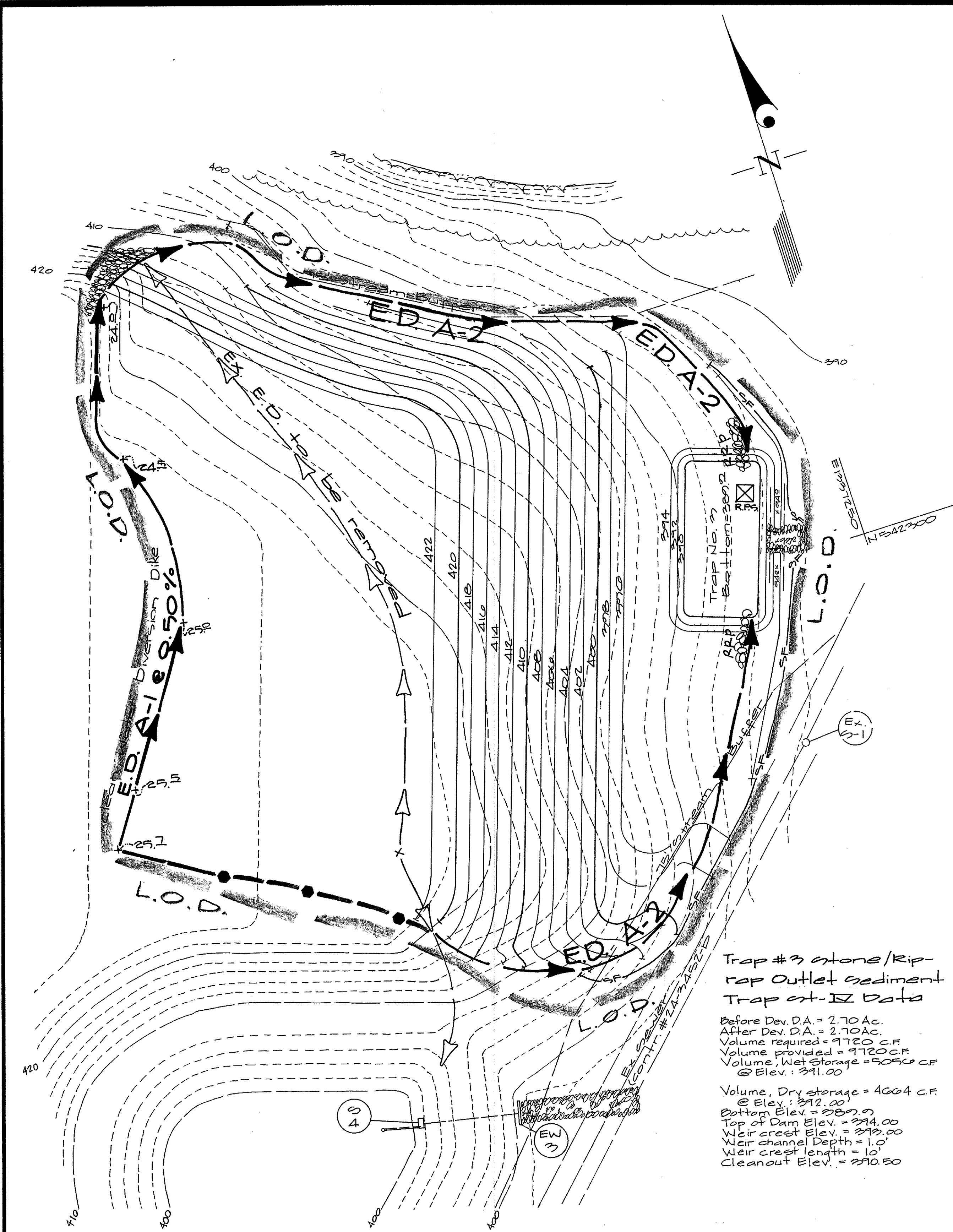
Approved: Howard County Department of Planning & Zoning  
*[Signature]* 2/29/97  
*[Signature]* 2/29/97  
 Chief, Division of Land Development  
*[Signature]* 2/29/97  
 Chief, Development Engineering Div.



- SEQUENCE OF CONSTRUCTION**
1. Obtain grading permit.
  2. Arrange for an on-site pre-construction meeting with the Sediment Control Inspector.
  3. **PHASE I CONSTRUCTION (As shown on C-7) (8 weeks)**
    - i. Install stone construction entrance, temporary access culvert, and super silt fence in the area of the 90° RCP construction.
    - ii. Install the clean water diversion channels associated with the access route to the western most portion of Phase I construction.
    - iii. Construct the clean water diversion dike along the western most property line.
    - iv. Construct Sediment Trap #1 and the earth dikes draining to it.
    - v. Install the stream diversion channel for the 90° RCP construction as well as the filter bag.
    - vi. Install the 90° RCP from BM1 to BM2, the storm drain from I-9 to MH7 and the first 152' of 33" RCP out of MH 7. Attach the 33" flexible plastic pipe in order to outfall into stream diversion channel. Block I-8.
    - vii. Begin placing area for athletic fields, over the storm drain and the entrance road on-grade.
    - viii. Install utilities and remainder of storm drain.
    - ix. Install curb and gutter, paving, and sidewalks.
    - x. Stabilize areas not to be paved in accordance with the Permanent Seeding Notes.
  4. **PHASE II CONSTRUCTION (As shown on C-8 and C-9) (20 weeks)**
    - i. Construct the remainder of the clean water dike/earth dike along the western most property line providing the treatments required on either side of the dike.
    - ii. Construct Sediment Trap #2 and the earth dike draining to it, from the east.
    - iii. Relocate the super silt fence from the culvert construction area to along the Ex. 8's. Install the in-stream stone dike and relocate filter bag.
    - iv. Begin construction of sediment basin/SWM facility embankment and the dike draining to it from the fill operation associated with the entrance road at any time after core is completed. Grade pond bottom per C-6.
    - v. Construct the remainder of the 33" RCP to MH 22 and the storm drain from MH22 to BM1.
    - vi. Grade site.
    - vii. Install utilities and remainder of storm drain system.
    - viii. Construct building and footbridge.
    - ix. Install curb and gutter, paving and sidewalks.
    - x. Stabilize areas not to be paved in accordance with the Permanent Seeding Notes.
  5. **PHASE III CONSTRUCTION (As shown on C-9 and C-11) (6 weeks)**
    - i. After permission has been granted by the Sediment Control Inspector, relocate the earth dike used to convey water to Sediment Trap #2 from the east during Phase II construction to the location shown in the inset on Sheet C-11 to be used to divert clean water around the Phase III construction area.
    - ii. Install the super silt fence along the northern most property line as shown on Sheet C-9.
    - iii. Remove the clean water dike/earth dike along the western most property line (north of school)
    - iv. Construct Sediment Trap #3 and the earth dikes draining to it.
    - v. Grade site draining to Sediment Trap #3 as shown on Sheet C-11.
    - vi. Backfill Trap #2 and complete slope grading as shown on Sheet C-4.
    - vii. Stabilize disturbed area in accordance with the Permanent Seeding Notes.
  6. **PHASE IV CONSTRUCTION (3 weeks)**

The following items can be performed only after permission has been granted by the Sediment Control Inspector:

    - i. Remove earth dike draining to Sediment Trap #1 along the existing stream and earth dikes draining to Sediment Trap #3.
    - ii. Backfill Sediment Traps #1 and #3 as shown on Sheets C-2 and C-4 respectively. Install silt fence at the top of the sediment trap prior to backfilling.
    - iii. Backfill dike/swale draining to the sediment basin from the south as shown on Sheet C-3.
    - iv. Remove earth dike draining to the sediment basin from the north.
  7. **FINAL CONSTRUCTION ITEMS (4 weeks)**
    1. Stabilize any remaining disturbed areas.
    2. Remove any remaining sediment control devices.
    3. Convert sediment basin to Stormwater Management facility as shown on C-3.
    4. Remove temporary brick blocking & low flow modifications shown on C-10.
    5. Replace existing Stormwater Management Facility as shown on C-2, cut through exist. embankment at 2:1 slope minimum & replace exist. river CMP with concrete river & spillway & reconstruct berm per details on C-14. Regrade pond interior per C-6 & plant per landscape plans.
    6. Install landscaping as shown on sheets C-10 through C-21.



**Trap #3 stone/Rip-rap Outlet Sediment Trap at 2:1 slope**

Before Dev. D.A. = 2.70 AC.  
 After Dev. D.A. = 2.70 AC.  
 Volume required = 9720 C.F.  
 Volume, Wet Storage = 9056 C.F.  
 @ Elev. = 311.00

Volume, Dry Storage = 4604 C.F.  
 @ Elev. = 312.00  
 Bottom Elev. = 287.00  
 Top of Dam Elev. = 314.00  
 Weir crest Elev. = 313.00  
 Weir channel Depth = 1.0'  
 Weir crest length = 16'  
 Cleanout Elev. = 310.50

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
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 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
7-10-97	Label Rip-Rap Inflow Protection	422	

PREPARED FOR:  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 10810 MARYLAND ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

**Sediment Control Plan (Phasing Insets)**

**Western Middle School No. 2**  
 PARCEL 115 L3218 F. 618  
 Clarksville Election District No. 5 Howard County, Maryland

DES: DEV	SCALE: 1" = 40'	ZONING: EE-DCO (17X0-3)	G.L.W. FILE NO.: 96100
DRN: enb	DATE: 8-11/1997	TAX MAP NO.: 41/46	SHEET: 11 of 22
CHK: [Signature]			

POND CONSTRUCTION SPECIFICATIONS

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

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative.

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials.

Placement - Area on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within 1.2% of the optimum.

Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans.

Structure Backfill - Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material.

Following Clearing, Grubbing and Removal of Top Soil, the Fill Subgrades should be proof rolled with a loaded 10-ton dump truck or equivalent under the observation of the Geotechnical Engineer.

NOTE: POND CONSTRUCTION SPECS. REFER TO ELEMENTARY SCHOOL SWM POND AND MIDDLE SCHOOL POND BASIN ONLY. REFER TO PROJECT SPECIFICATIONS FOR GRADING AND CONCRETE SPECIFICATIONS FOR THE REST OF THE SITE.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands.

Material - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges.

- Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

- Backfilling shall conform to "Structure Backfill". Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-381.

Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standards Specifications for Construction and Materials, Section 608, Mix No. 3.

Rock Riprap - Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.

The rip rap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks.

Care of Water during Construction - All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works.

Stabilization - All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control - Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized.

LOG OF BORING NO. SWM-1

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-1.

LOG OF BORING NO. SWM-2

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-2.

LOG OF BORING NO. SWM-3

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-3.

BORING LOG

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-2.

BORING LOG

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-3.

BORING LOG

Table with columns: Depth (Feet), Description, Remarks. Includes soil logs for SWM-2.

STORMWATER MANAGEMENT FACILITY OPERATIONS AND MAINTENANCE GUIDELINES

- Operations: Owner shall keep accurate records of inspections and maintenance type repairs. Owner shall make a visual inspection of the facility at least twice a year. During the extreme weather or rainfall events, the owner shall check for overlapping, seepage, or dam failure.

FIELD CLASSIFICATION SYSTEM FOR SOIL EXPLORATION. Includes tables for Non-Cohesive Soils and Cohesive Soils with various classification codes and descriptions.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING. Includes signatures and dates for approval.



ENGINEER'S CERTIFICATE. 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.

DEVELOPER'S/BUILDER'S CERTIFICATE. 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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project.

Note: For the GTA geotechnical report of 6-13-97 fill for dam and core shall be compacted to 95% of the maximum dry density in accordance with the Standard Proctor ASTM D-1557 fill adjacent to the outfall pipe and anti-seep collars shall be CL only.

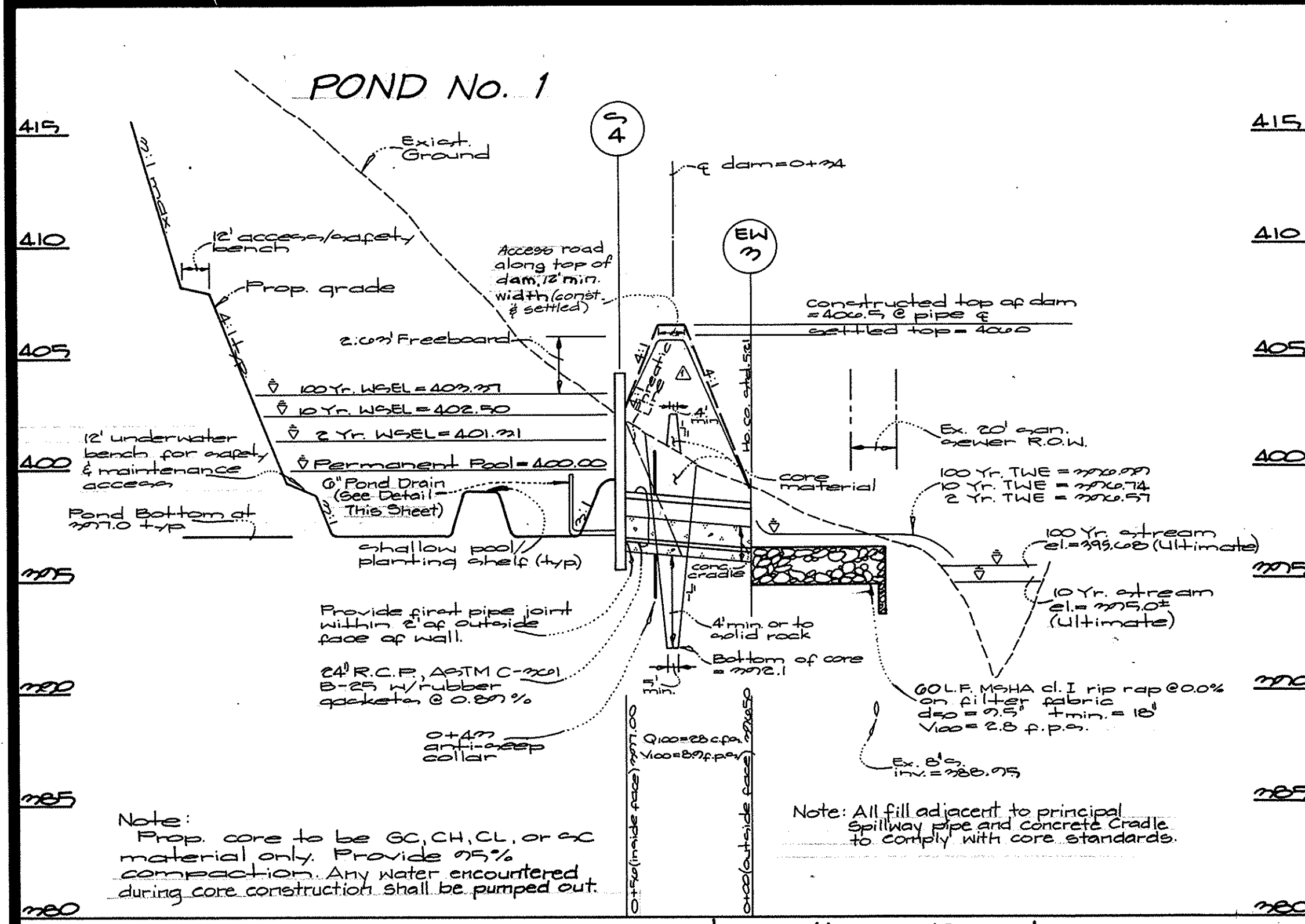
GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS. 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

Revision table with columns: DATE, REVISION, BY, APPR.

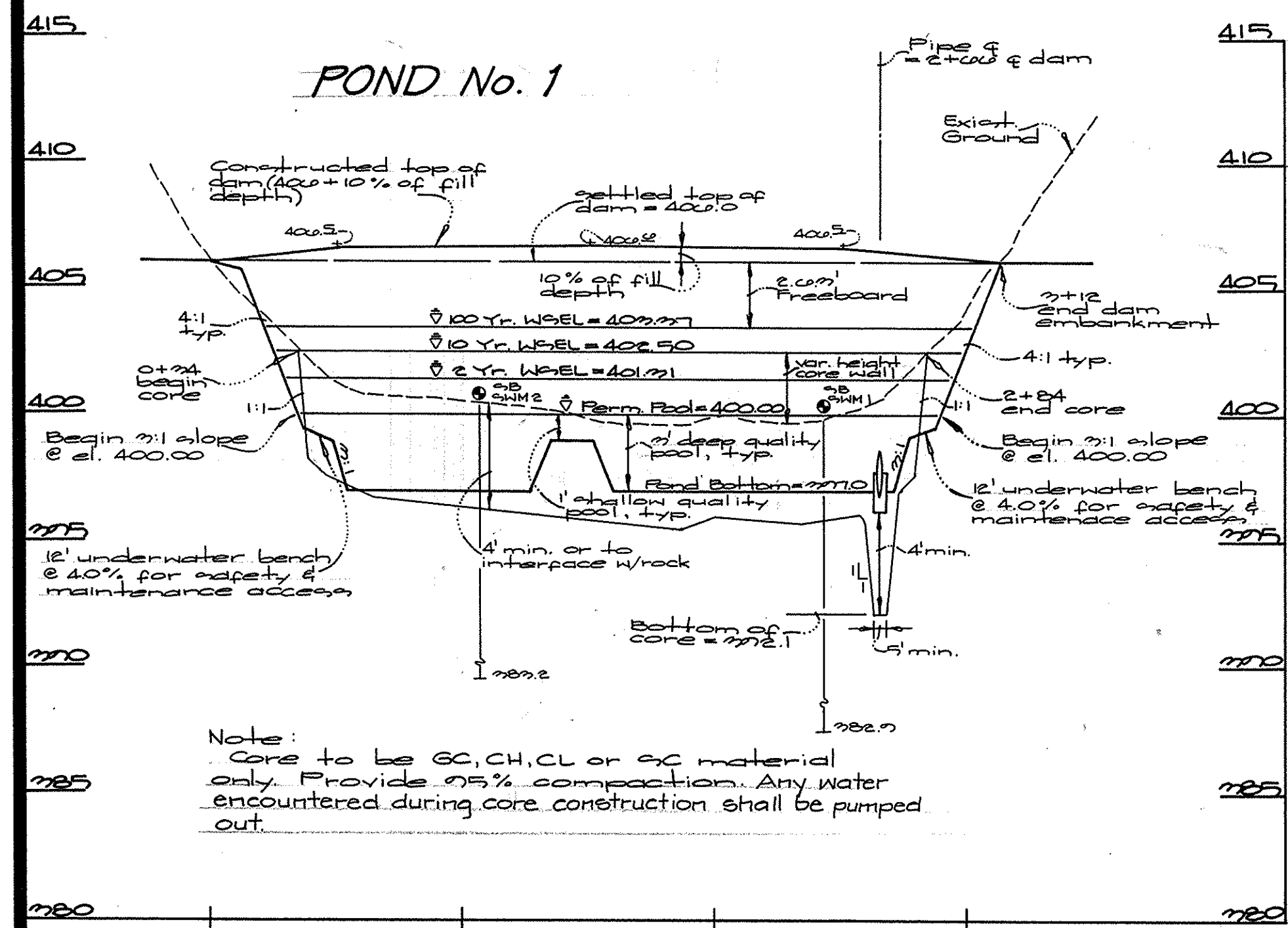
OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM. 10910 MARYLAND ROUTE 108, ELLICOTT CITY, MARYLAND 21043, ATTN: BILL GRAU

STORMWATER MANAGEMENT NOTES, O & M GUIDELINES & BORING LOGS. WESTERN MIDDLE SCHOOL No. 2. PARCEL 115, L.321B F.01B. CLARKSVILLE ELECTION DISTRICT No. 5. HOWARD COUNTY, MARYLAND

SCALE, ZONING, DATE, TAX MAP No., SHEET. Includes G.L.W. FILE No. 96100, RR-MXD3, 41/46, 12 OF 22.



Principal Spillway Profile  
horz.: 1"=50' vert.: 1"=5'



Dam Embankment  
horz.: 1"=50' vert.: 1"=5'

**FOREBAY DAM DETAILS**  
N.T.S.

Approved: Howard County Department of Planning & Zoning  
*David S. Galt* 9/29/97  
 Director

Approved: Chief, Division of Land Development  
*Cindy Hamilton* 9/21/97  
 Date

Approved: Chief, Development Engineering Div.  
*John L. Williams* 9/26/97  
 Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*W. Williams* 8/1/97  
 Signature of Developer/Builder Date

**ENGINEER'S CERTIFICATE**

"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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

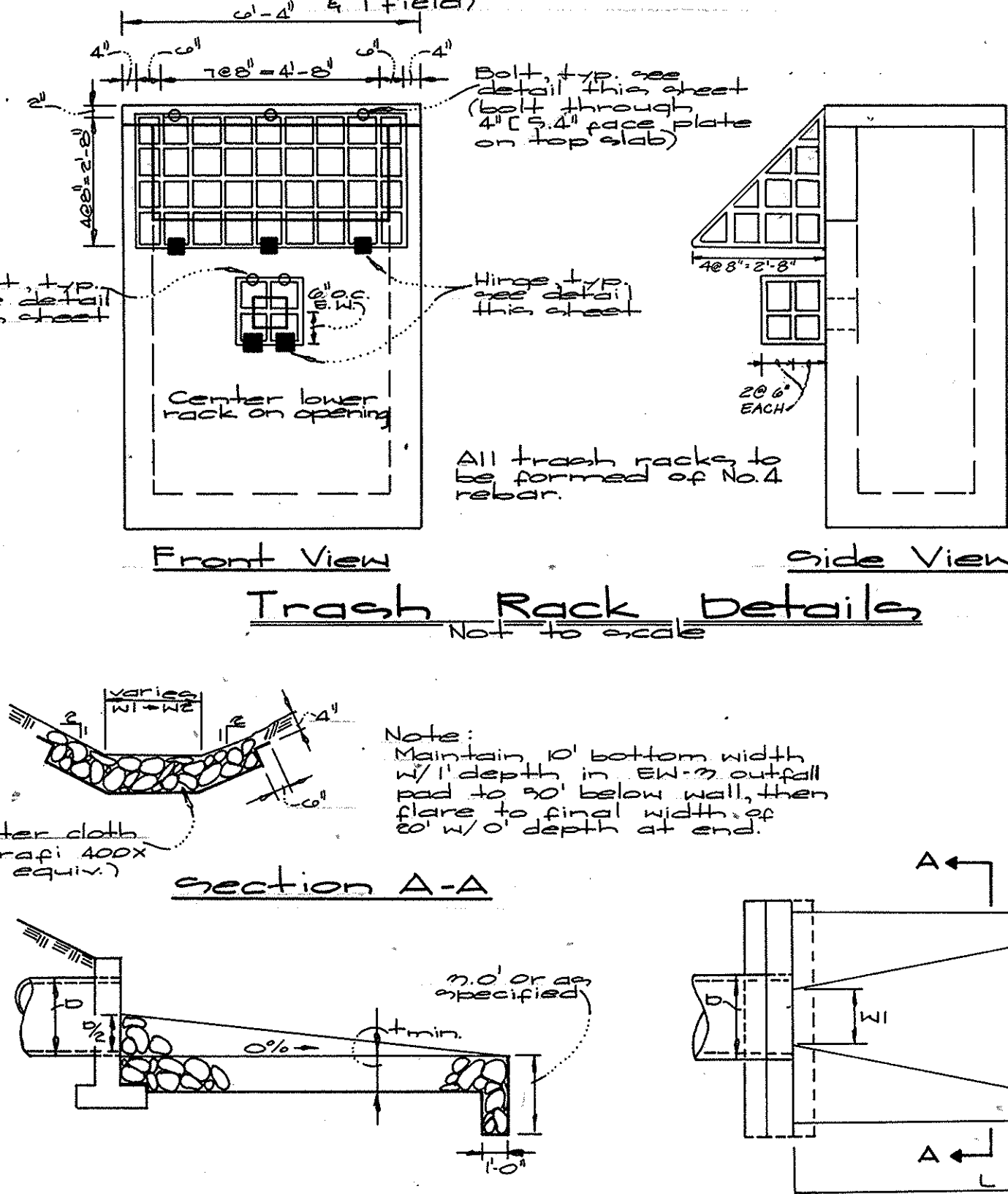
*Clayton Simmons* 6/25/97  
 Signature Date  
 Natural Resources Conservation Service

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.

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

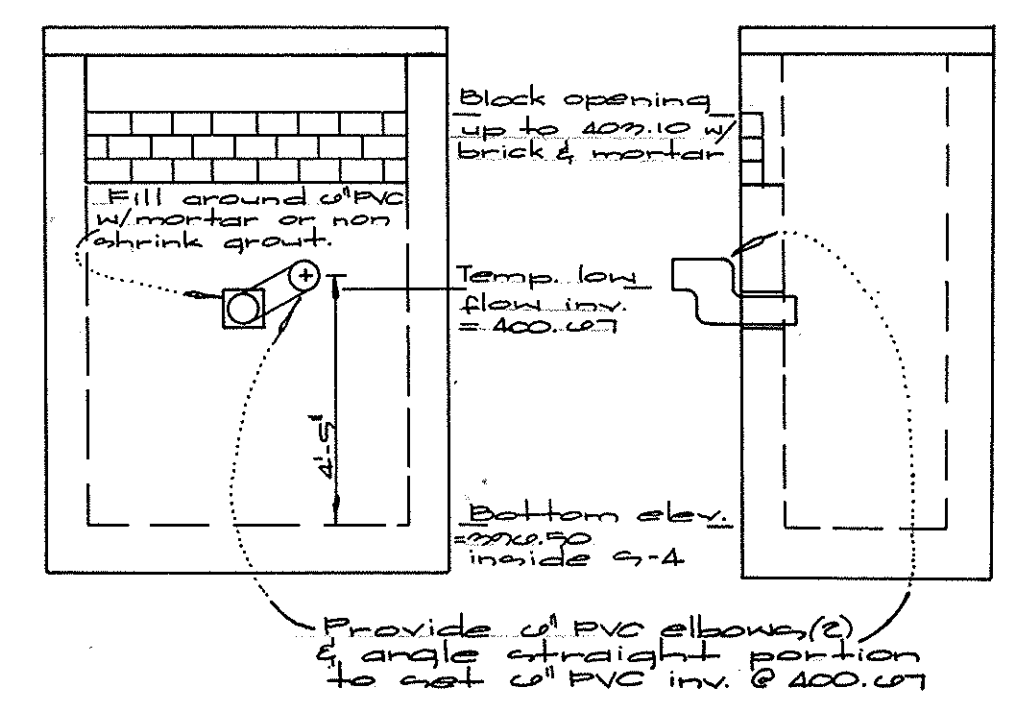
*Clayton Simmons* 9/24/97  
 Signature Date  
 Howard Soil Conservation District

**Outfall Details for EW-7 & EW-5**  
Not to scale



Trash Rack Details  
Not to scale

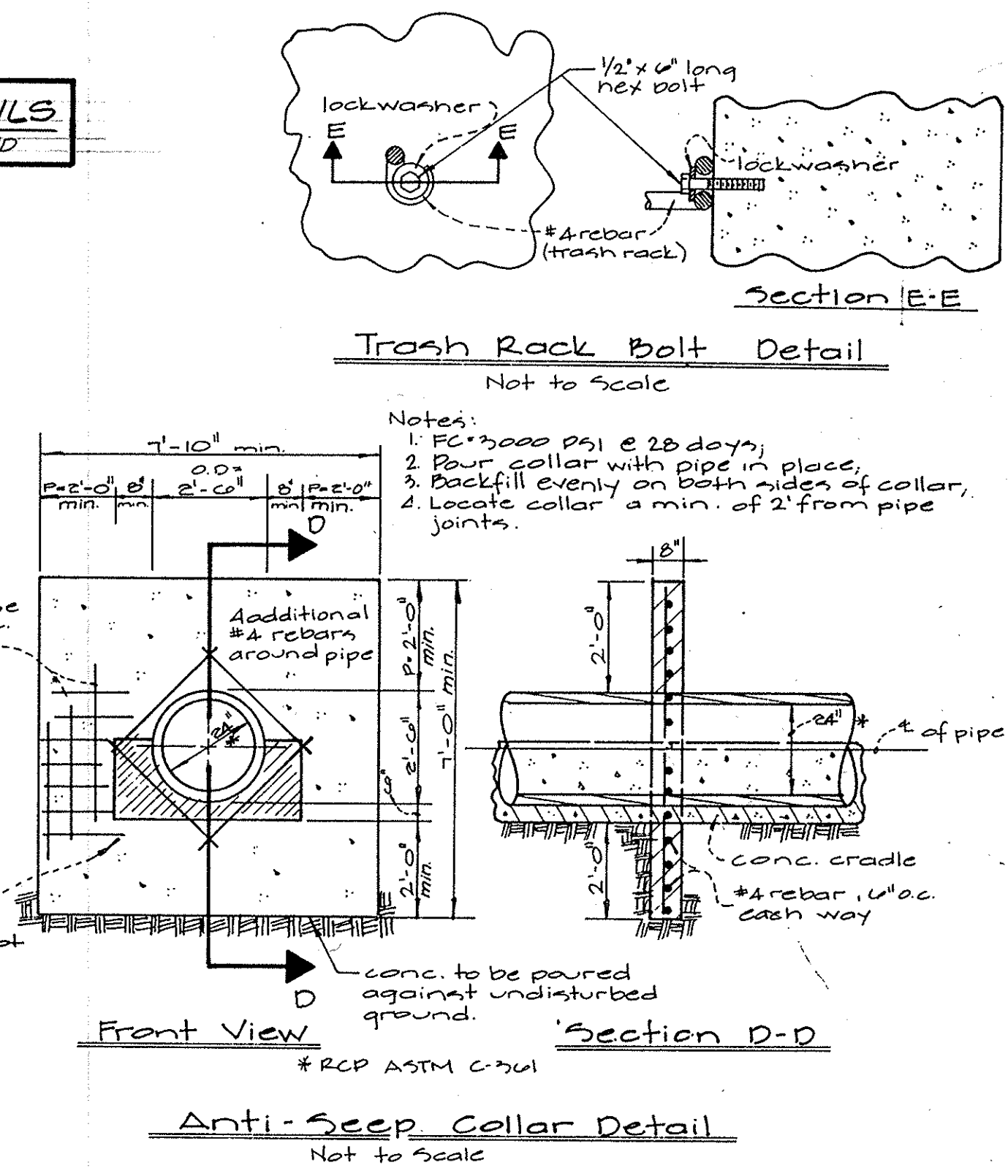
**Modifications to S-4 for Sediment Control Phase**



**Rip Rap Schedule**

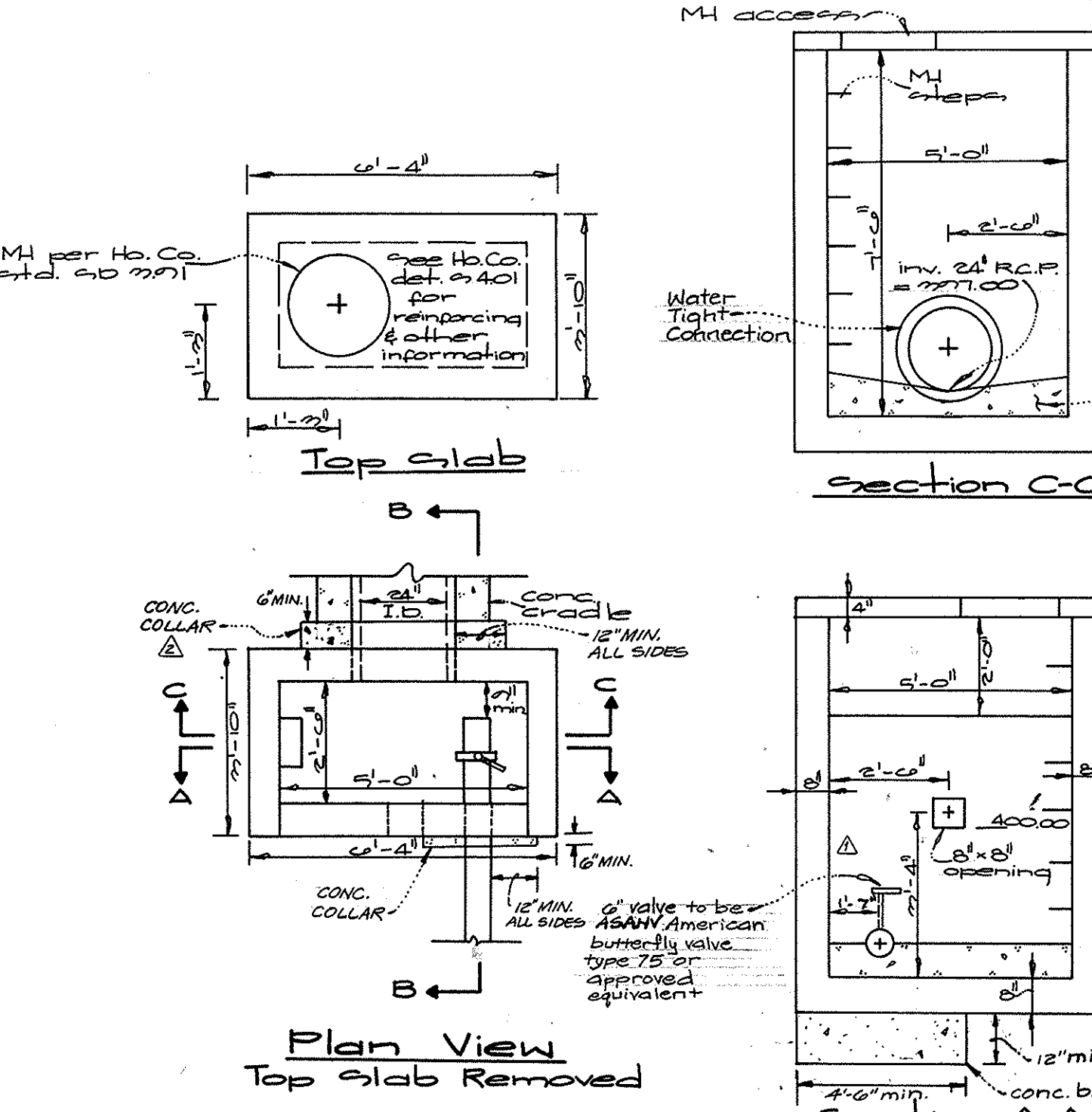
str.	B	L	W1	W2	Tmin	D50	MSHA CLASS
EW 7	24'	70'	2.0'	20'	10"	0.5"	I
EW 5	15'	40'	1.25'	12'	10"	0.5"	I

**POND #1 DETAILS**  
MIDDLE SCHOOL POND



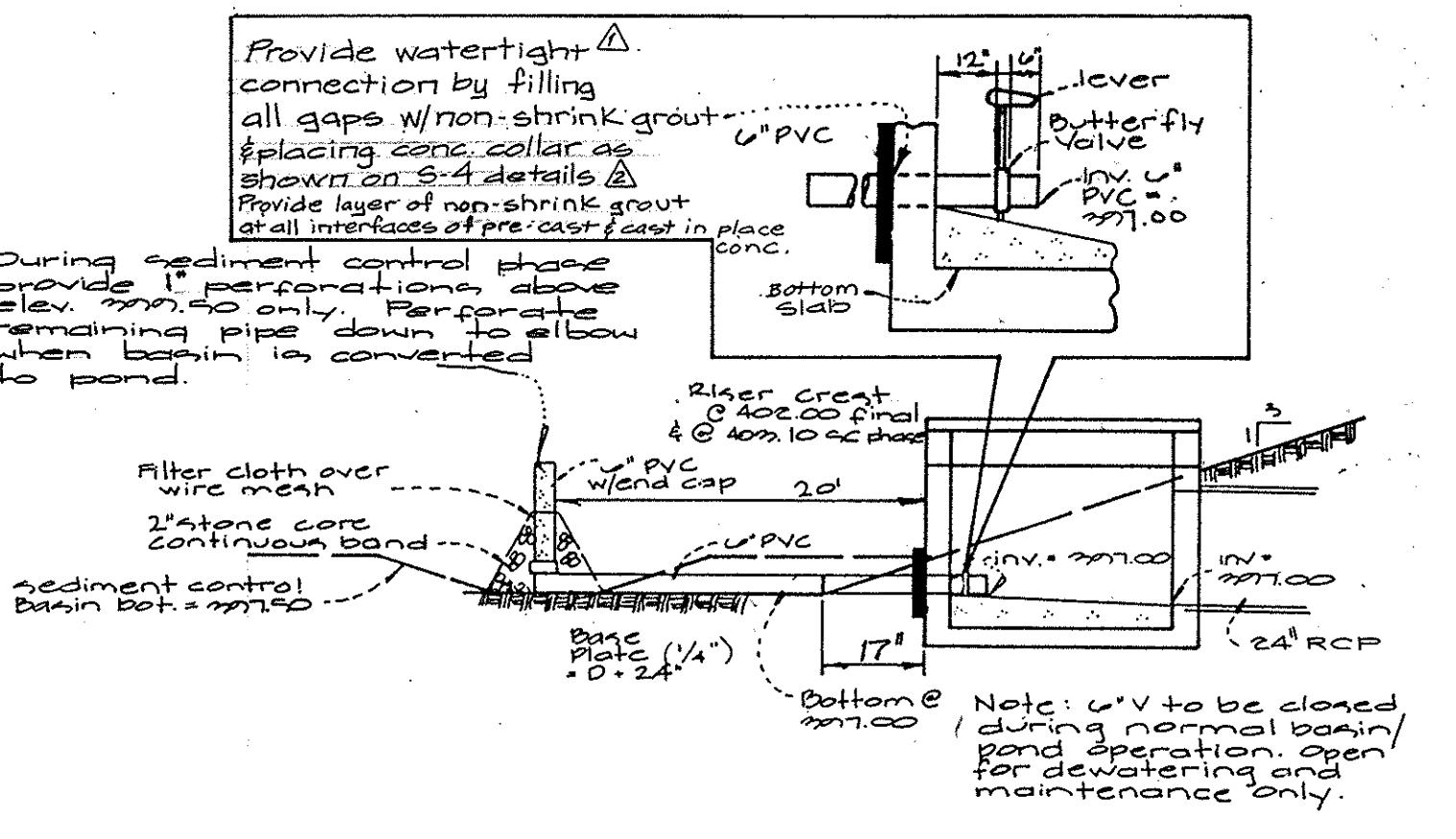
Anti-Seep Collar Detail  
Not to scale

Remove sheeting before pouring concrete or leave lower portion of sheeting in place.  
**Concrete Cradle Detail**  
 SCS TR-46 A-2 Cradle  
 N.T.S.

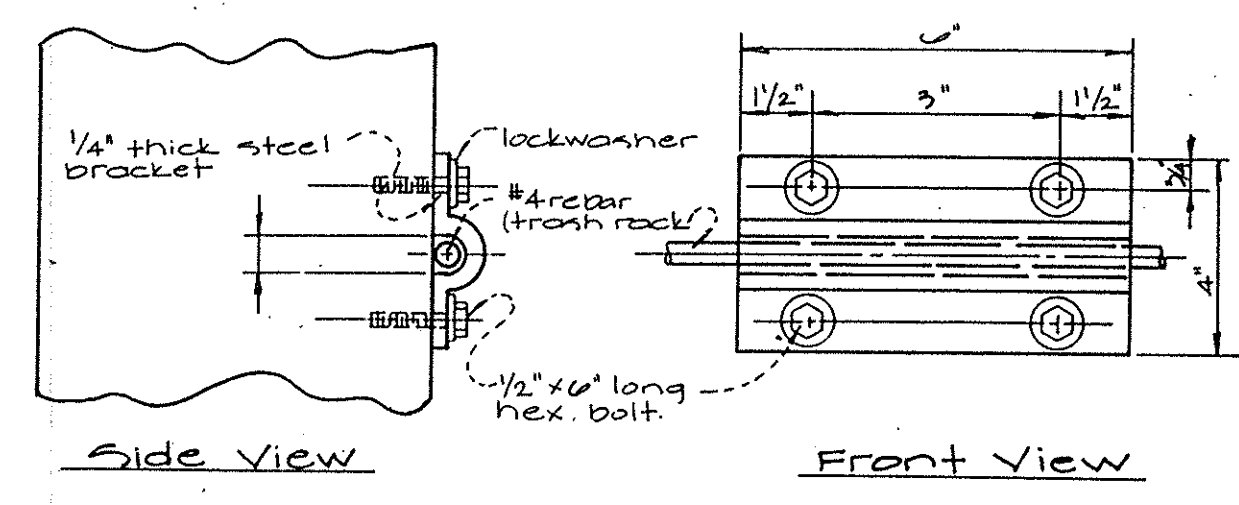


Structure S-4 Details  
Not to scale

Notes:  
 1. Riser to be reinforced pre-cast concrete. See std. det. S-4.01 for details. Contractor to provide shop drawing to the Engineer of Record (G.L.W.) for approval prior to manufacture. The Engineer of Record is responsible for insuring that the structure meets the design requirements.  
 2. Bottom Slab and Top Slab preferred to be monolithic pours. If cast in sections joints must be keyed and adequately secured with steel strips to be designed by the pre-caster and approved by the Engineer of Record. In addition filter cloth must be placed around the entire structure below grade.  
 Conc. bottom to be formed in field. Shape for positive drainage to 24" R.C.P.



Sediment Basin and Ultimate Middle School Dewatering Device  
Not to scale



Trash Rack Hinge Detail  
Not to scale

Trash Rack Bolt Detail  
Not to scale

Section D-D  
Not to scale

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20866  
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

PREPARED FOR:  
 Howard County Board of Education  
 10310 Route 100  
 Ellicott City, Maryland 21043  
 Attn: Bill Gray

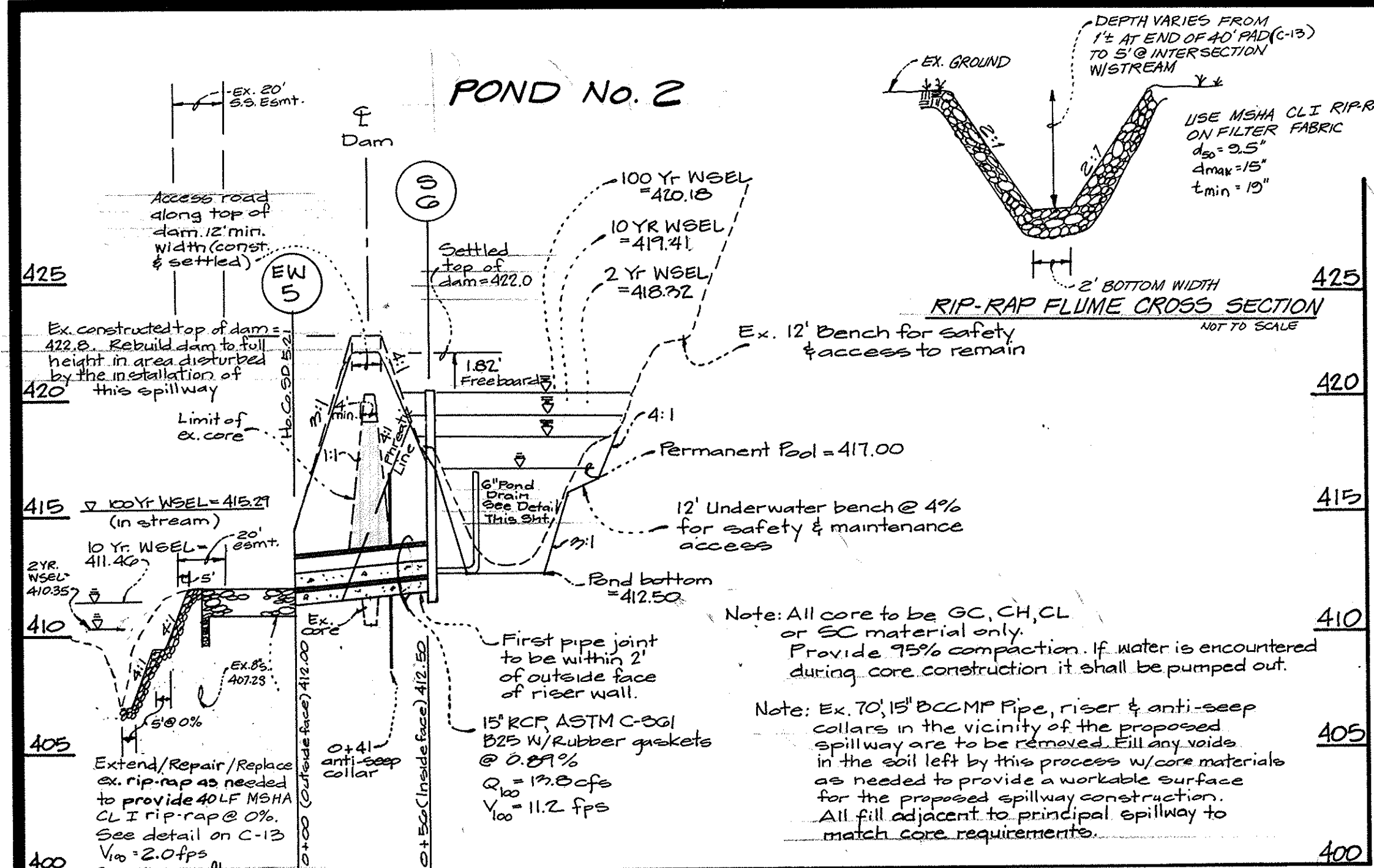
DATE	REVISION	BY	APPR.
9-25-97	ADDED CONC. COLLAR TO STRUCTURE S-4		
9-12-97	REV. NOTES FOR STR. S-4 DETAIL; REV. TRASH RACKS, CORE WALL THICKNESS, ADDED DETAIL TO ANTI-SEEP DEWATERING PIPE & RIP RAP SCHEDULE; MOVE DEWATERING PIPE LOC. & ADDED CONC. FOOTER BELOW RISER THIS LOCATION		

**Stormwater Management Details**

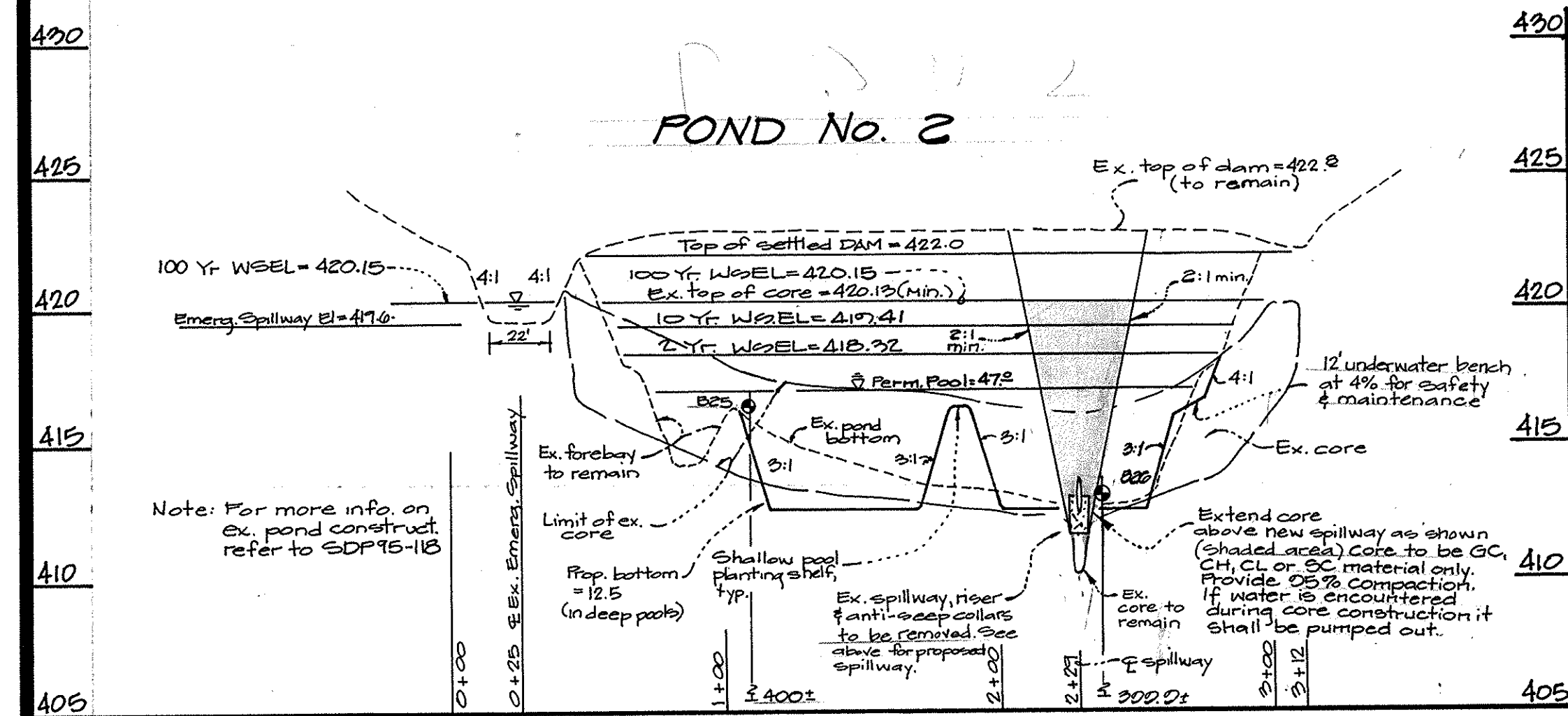
**Western Middle School No. 2**  
 Parcel 115  
 Clarksville Election District No. 5 L. 3218 F. 618 Howard County, Maryland

DES.	SCALE	ZONING	G.L.W. FILE NO.
SCC	As shown	RS-DCO (MXD-3)	26100
DRN.	DATE	TAX MAP No.	SHEET
k1p	8-11-97	41/4G	13 of 22
CHK.			

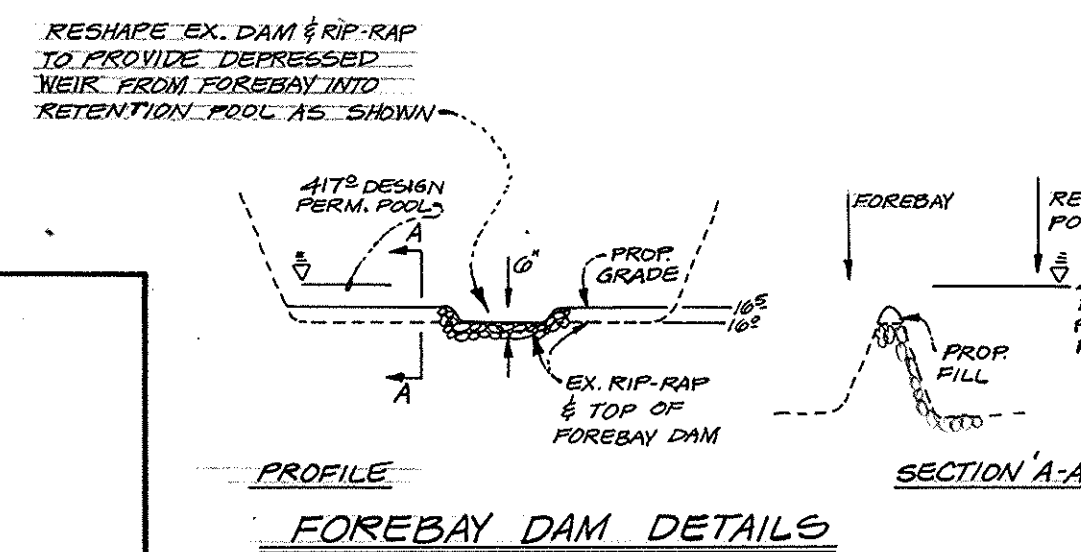




**Principal Spillway Profile**  
horz.: 1" = 50' vert.: 1" = 5'



**Dam Centerline Profile**  
horz.: 1" = 50' vert.: 1" = 5'



Approved: Howard County Department of Planning & Zoning

*Joseph A. Hamilton* 9/29/97 Date

Director

*Candy Hamilton* 9/29/97 Date

Chief, Division of Land Development

*John C. Hamilton* 9/29/97 Date

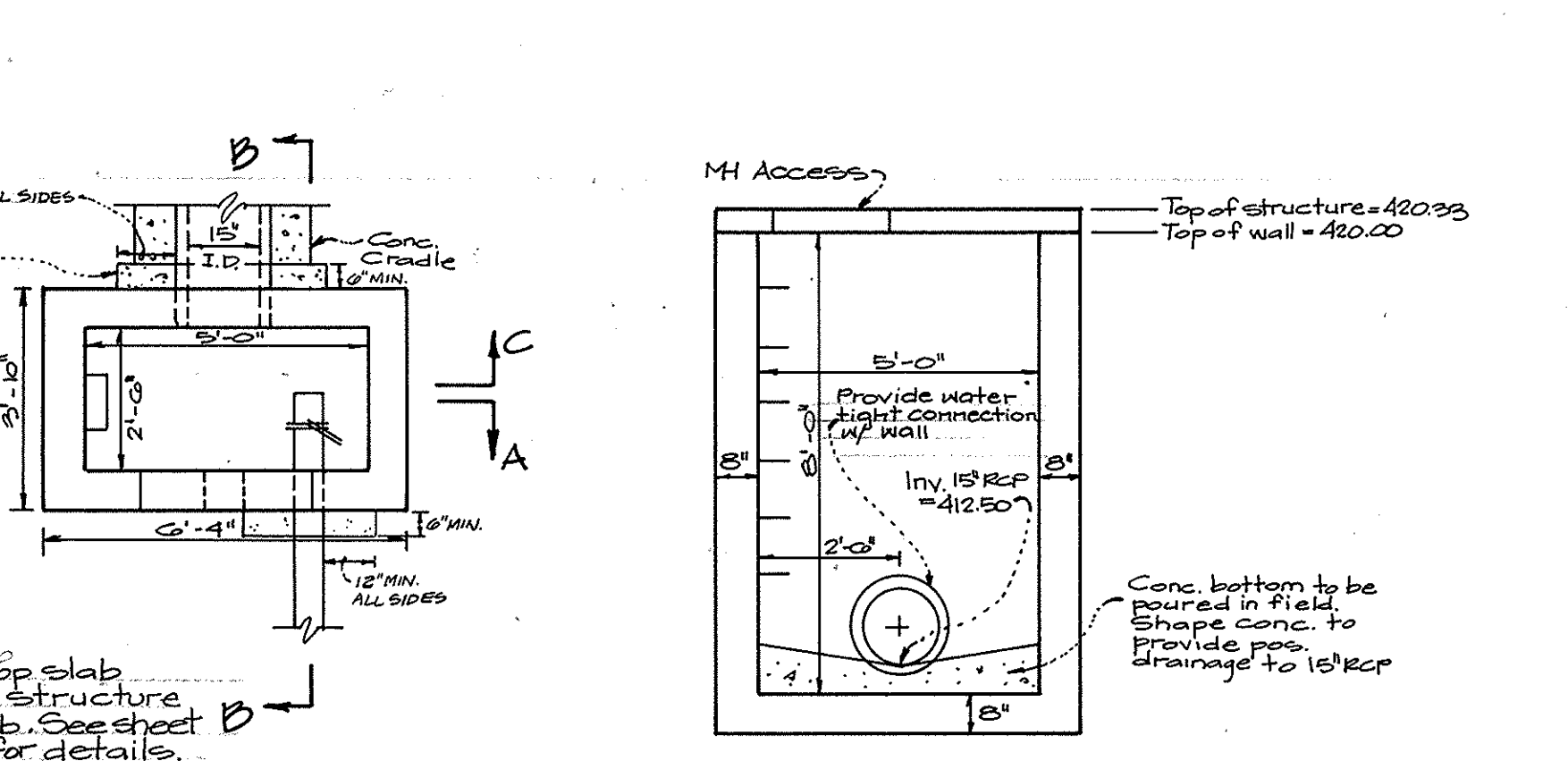
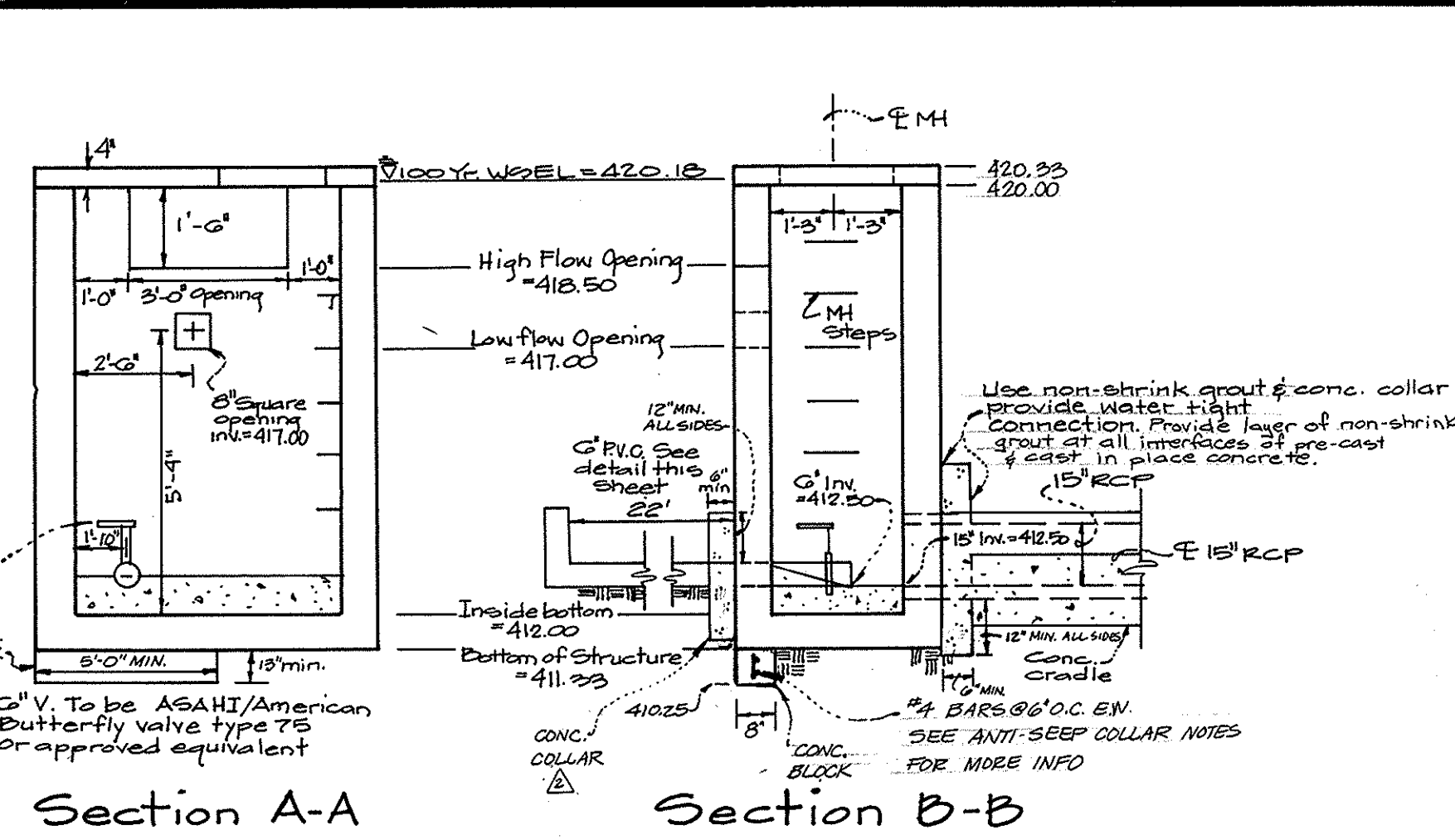
Chief, Development Engineering Div.

DEVELOPER'S/BUILDER'S CERTIFICATE

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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*W. W. Hamilton* 8/17/97 Date

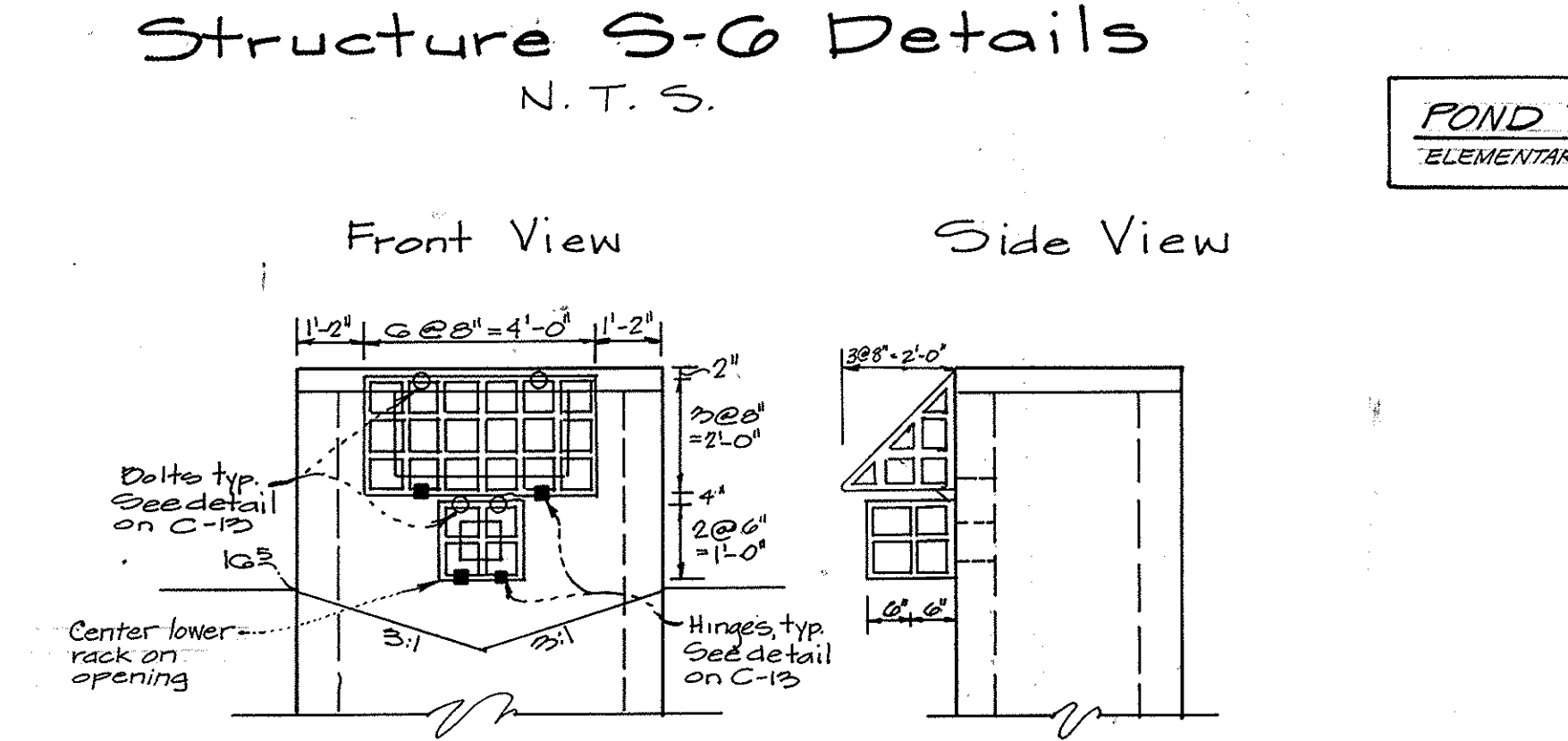
Signature of Developer/Builder



**Structure S-G Details**  
N.T.S.

Notes: 1. Riser to be pre-cast reinforced concrete. See standard detail S-401 for details. Contractor to provide shop drawings to Engineer of record for approval prior to manufacture. The Engineer of Record (GLW) is responsible for insuring that the structure meets the design requirements.

2. Bottom, sides, and Top Slab are preferred to be monolithic pours. If cast in sections joints must be keyed and adequately secured with steel straps to be designed by the pre-caster, and approved by the Engineer of Record. In addition, filter cloth must be placed around the entire structure below grade.



ENGINEER'S CERTIFICATE

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*Clark G. Graubert* 6/25/97 Date

Signature of Engineer

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.

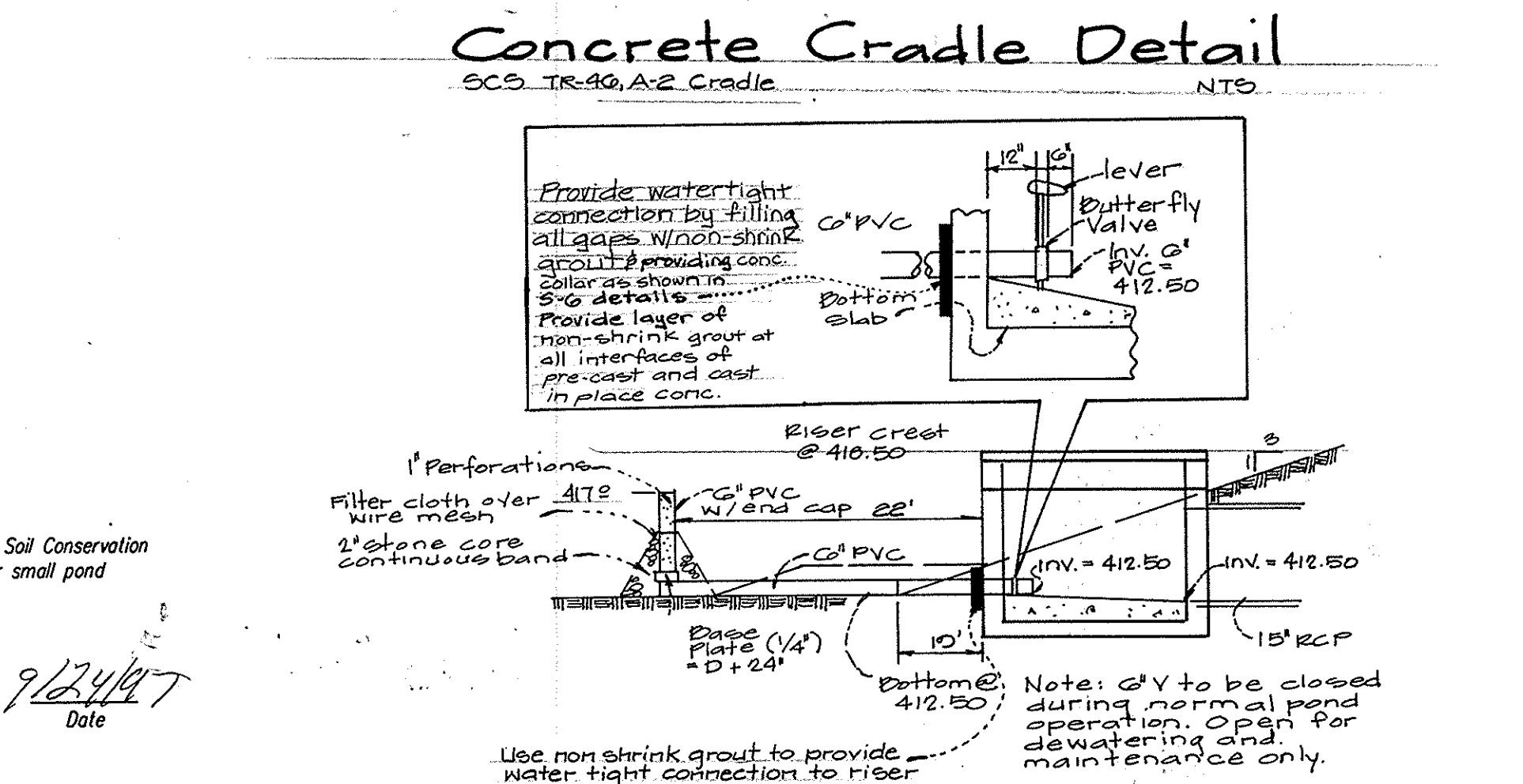
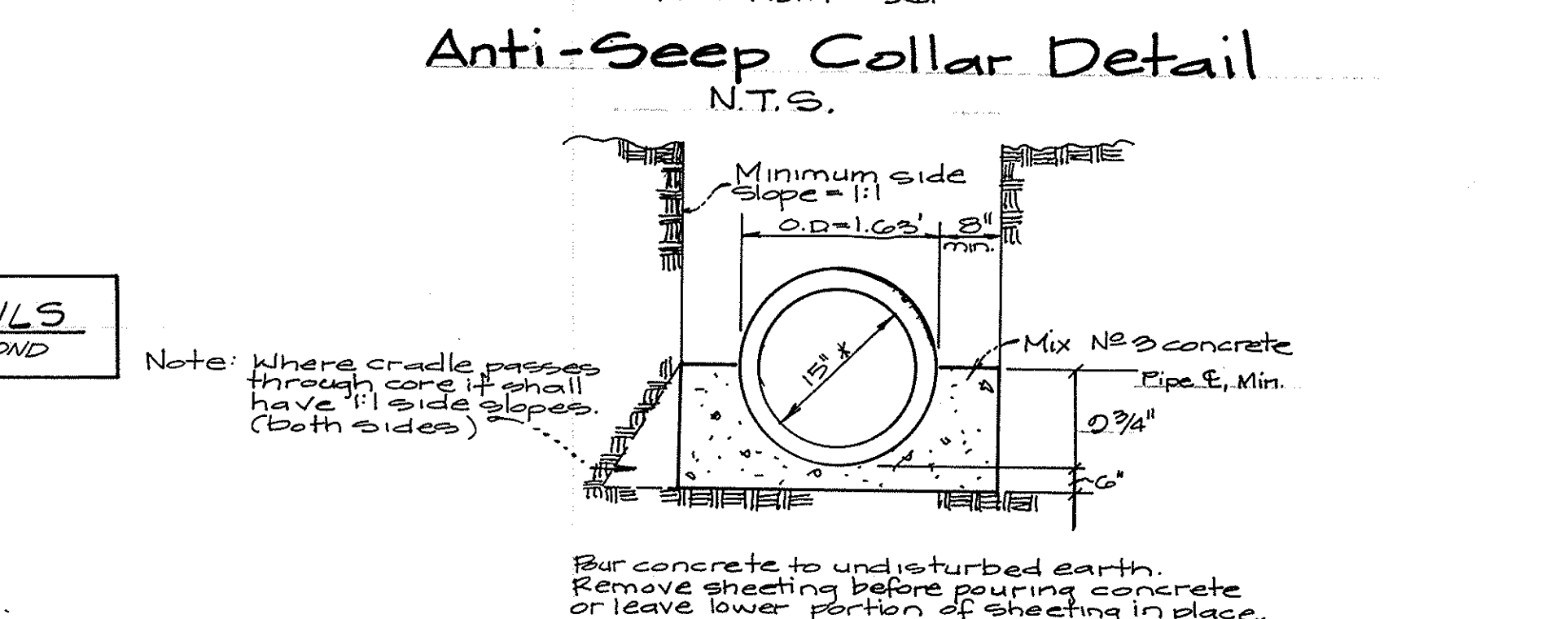
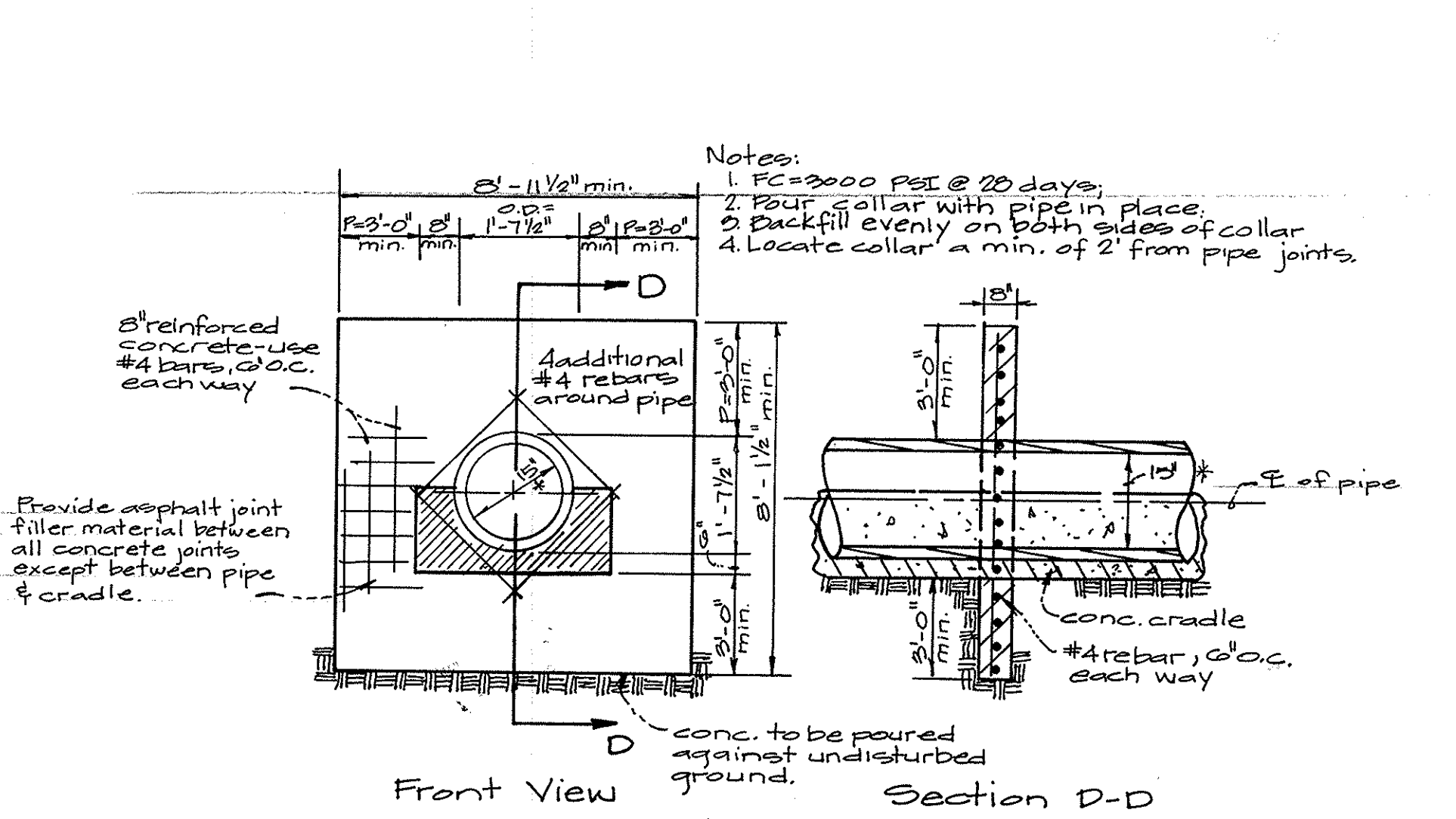
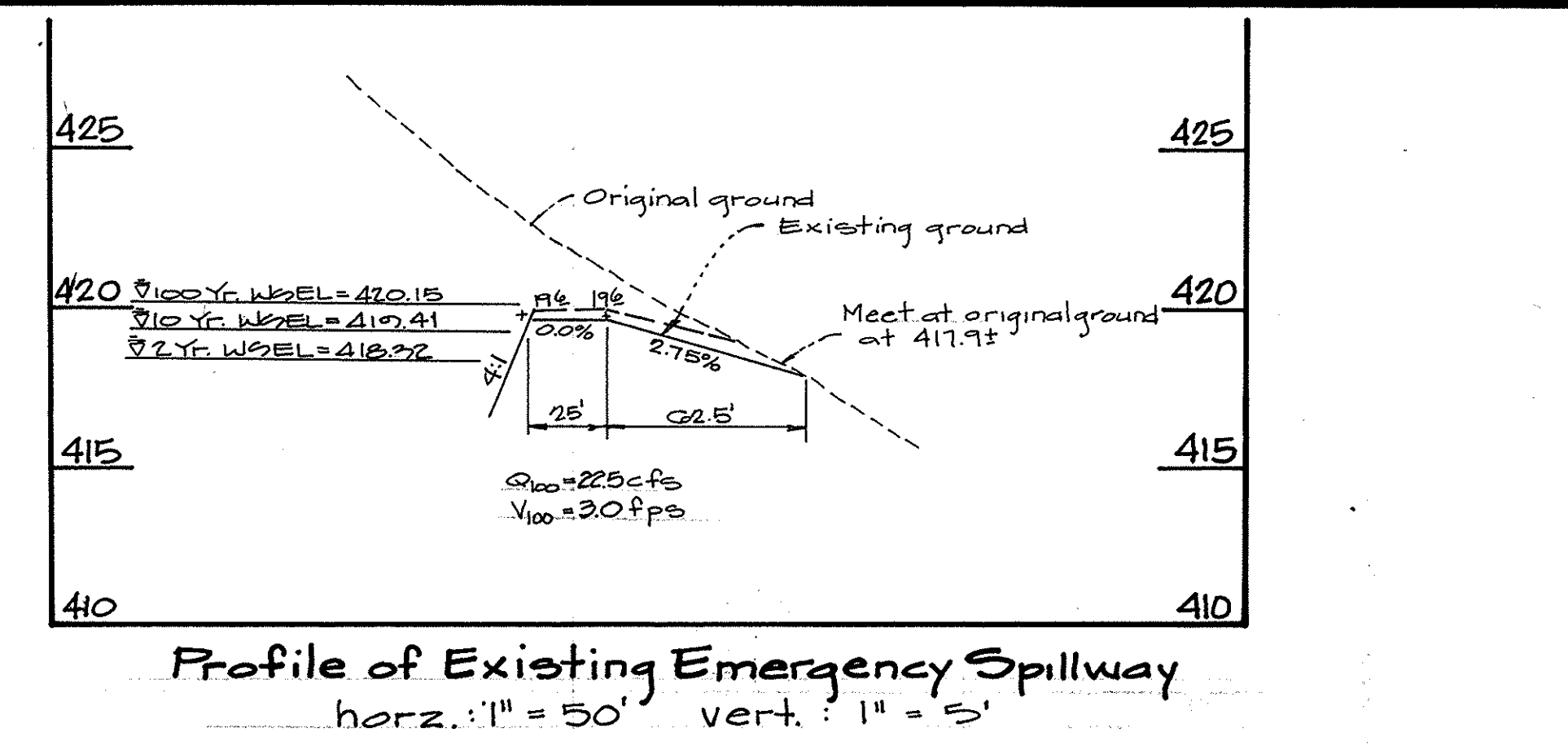
*Cheryl Simmond* 9/23/97 Date

Natural Resources Conservation Service

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

*Robert W. Johnson* 9/24/97 Date

Howard Soil Conservation District



DATE	REVISION	BY	APPR.
9-25-97	ADDED CONC. COLLAR TO STRUCTURE S-G	HKJ	
9-12-97	REV. NOTES ON STR. S-G DETAIL; REV. LOC. OF DRAIN, ADDED CONC. BLOCK @ S-G; REV. TRASH RACKS & RIP-RAP @ EN'S	HKJ	

PREPARED FOR:

HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 108  
ELICOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

Stormwater Management Details

**Western Middle School No. 2**

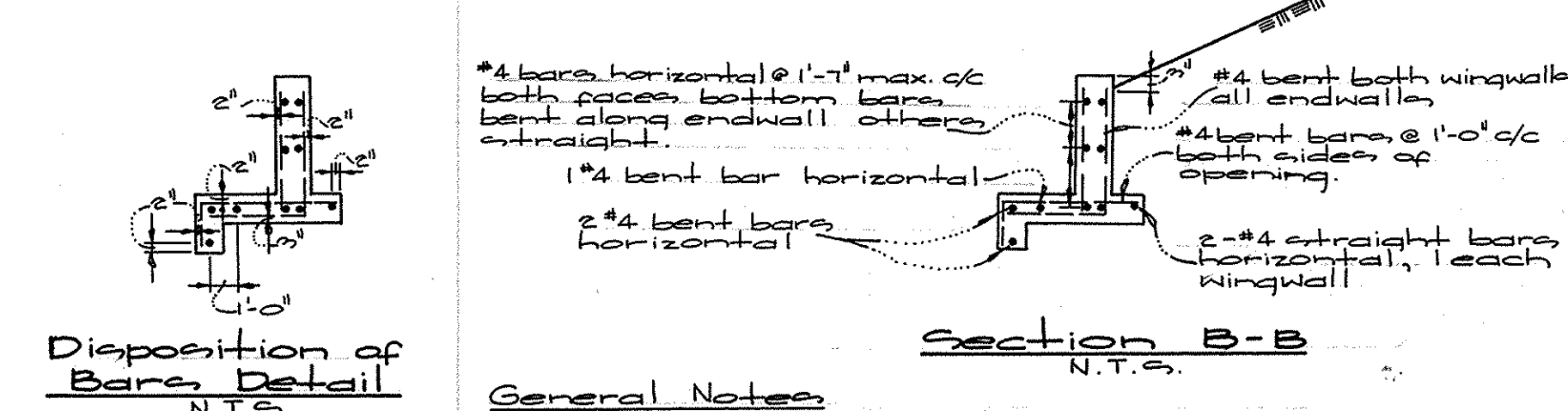
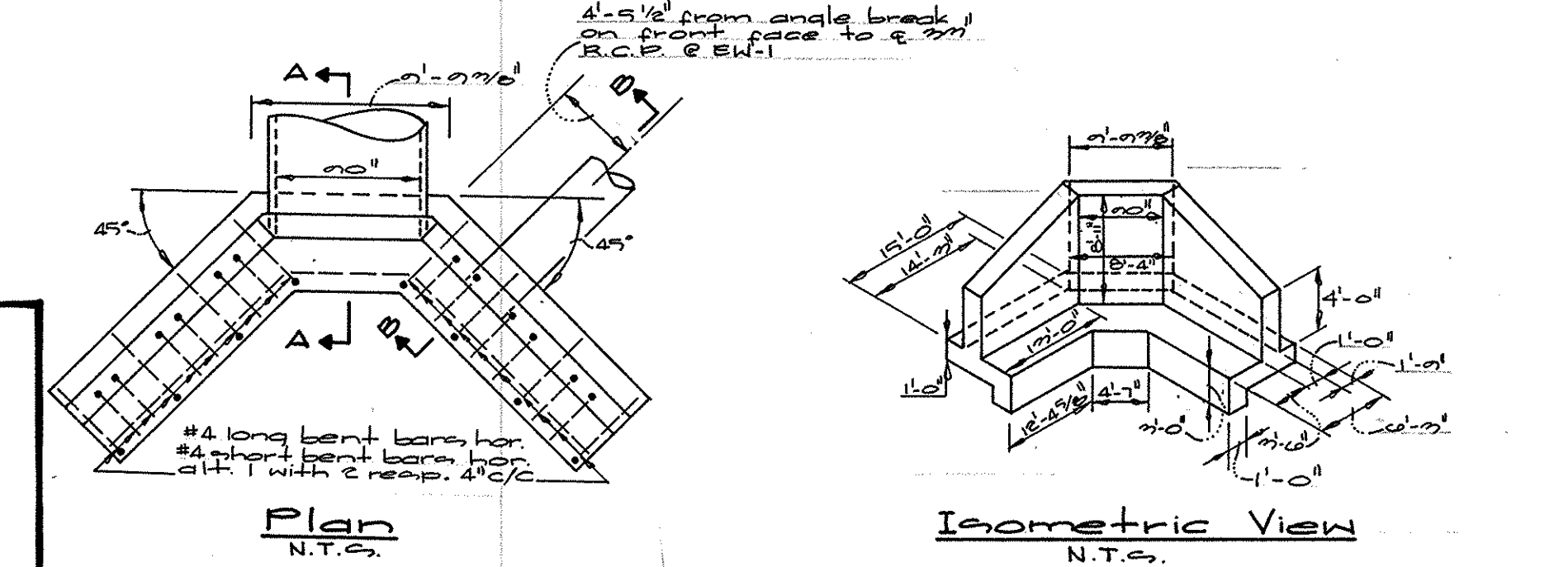
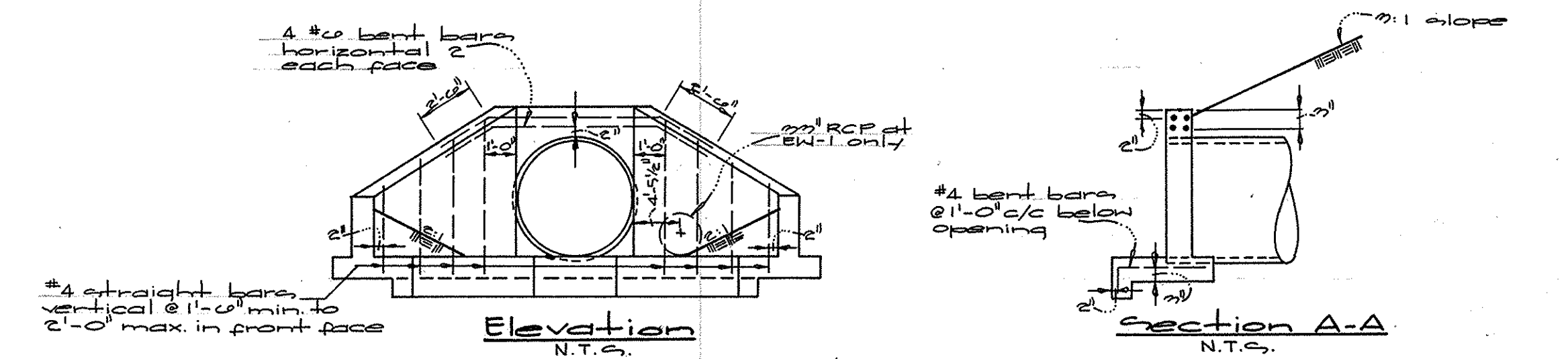
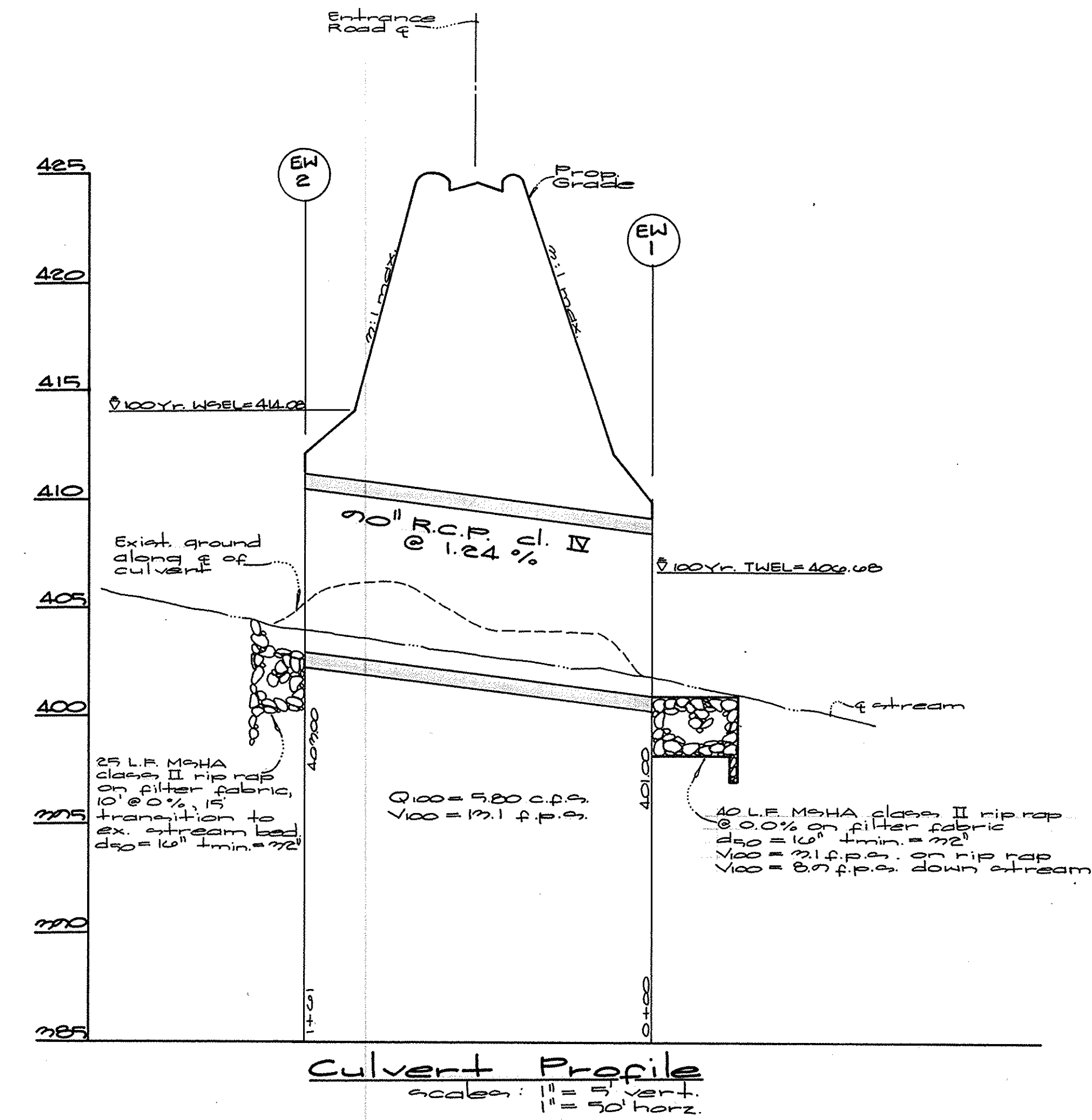
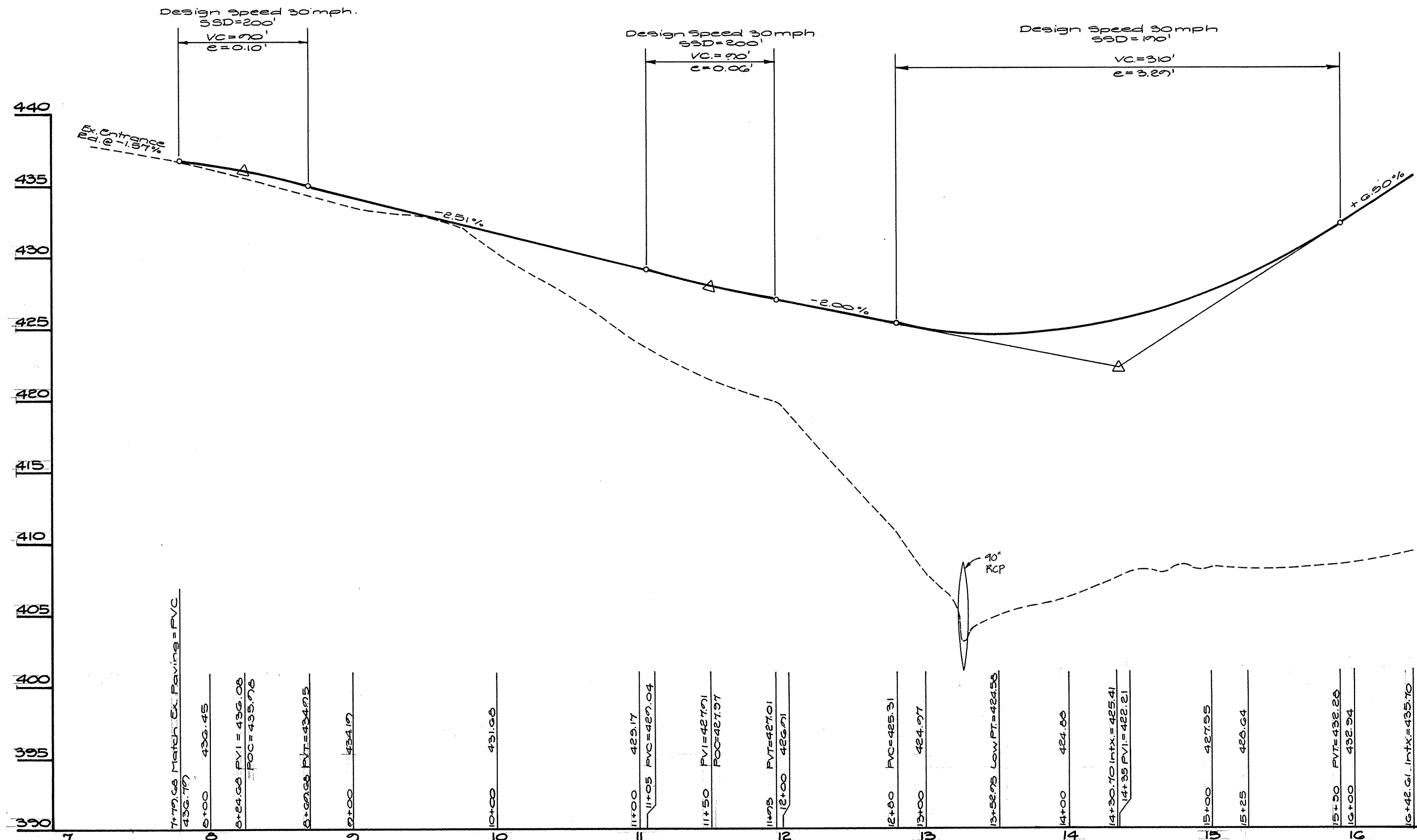
Parcel 115  
L-3216 F.C. 18

Clarksville Election District No. 5

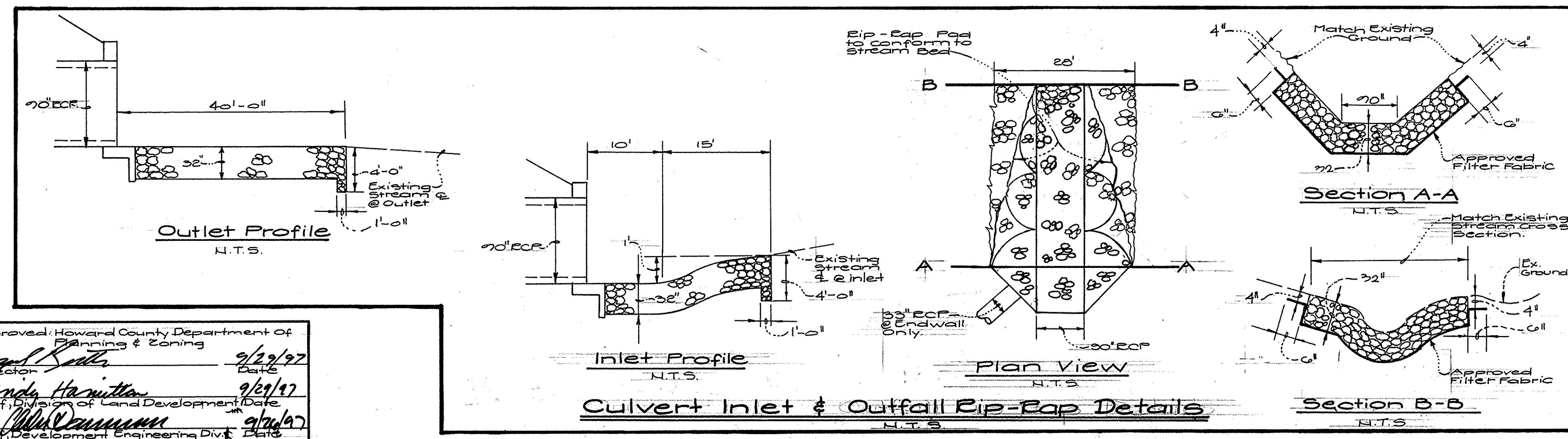
DES.:	SCALE:	ZONING:	G.L.W. FILE NO.:
SCC	As shown	EE-DCO (MXD-3)	96100
DRN.:	DATE:	TAX MAP NO.:	SHEET:
enb	8-11-97	41/40	14 of 22
CHK.:			

**Western Middle School Entrance Road  
Continuation From C Sta. 7+79.68**

Scale: 1" = 5' Vert.  
1" = 50' Horiz.



**EW-1 & HW-2 Details**



Approved: Howard County Department of Planning & Zoning  
*[Signature]* 9/29/97  
 Director  
 Approved: *[Signature]* 9/29/97  
 Chief, Division of Land Development  
 Approved: *[Signature]* 9/29/97  
 Chief, Development Engineering Div.



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
 TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

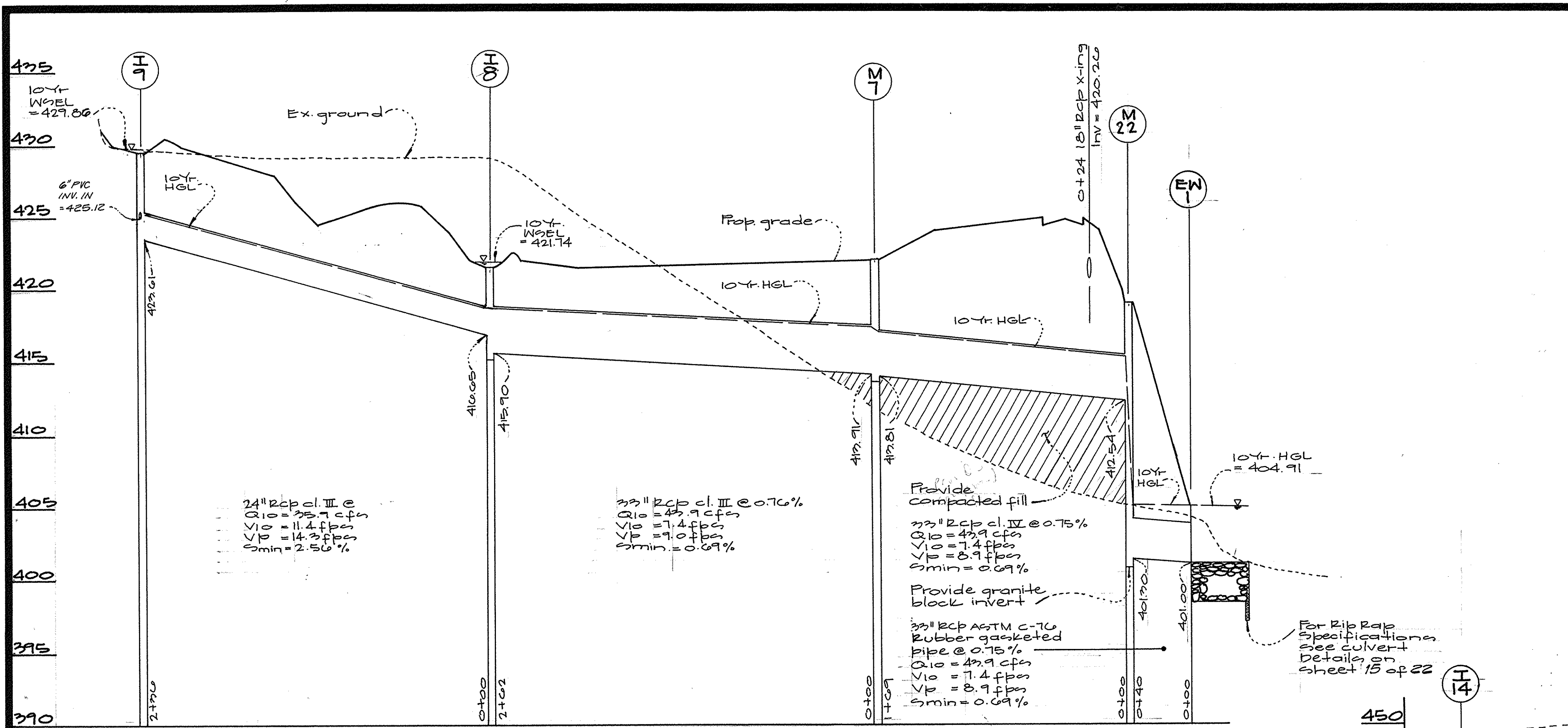
DATE	REVISION	BY	APP'R.

PREPARED FOR:  
 Howard County Board of Education  
 10510 Route 108  
 Ellicott City, Maryland 21043  
 Attn: Bill Gray

**Entrance Drive Profile and Culvert**

**Western Middle School No. 2**  
 Parcel 115  
 L3218 E.G.18  
 Clarksville Election District No. 5

DES.: \$22/foot	SCALE As shown	ZONING RR-250 (MXD-3)	G.L.W. FILE NO. 36100
DRN.: cut/kip	DATE 8-11-97	TAX MAP NO. 4/14G	SHEET 15 OF 22
CHK.:			



### Structure Schedule

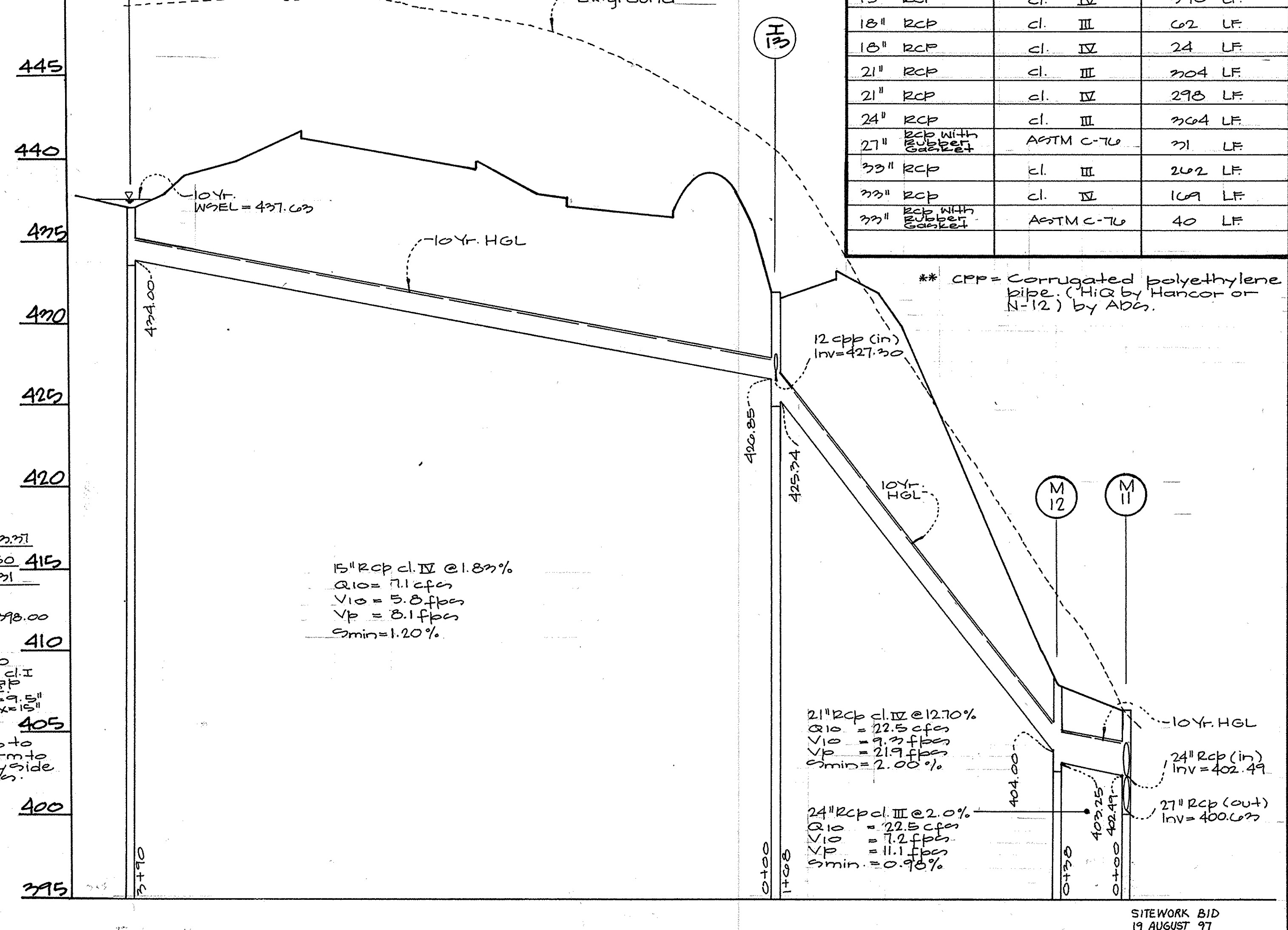
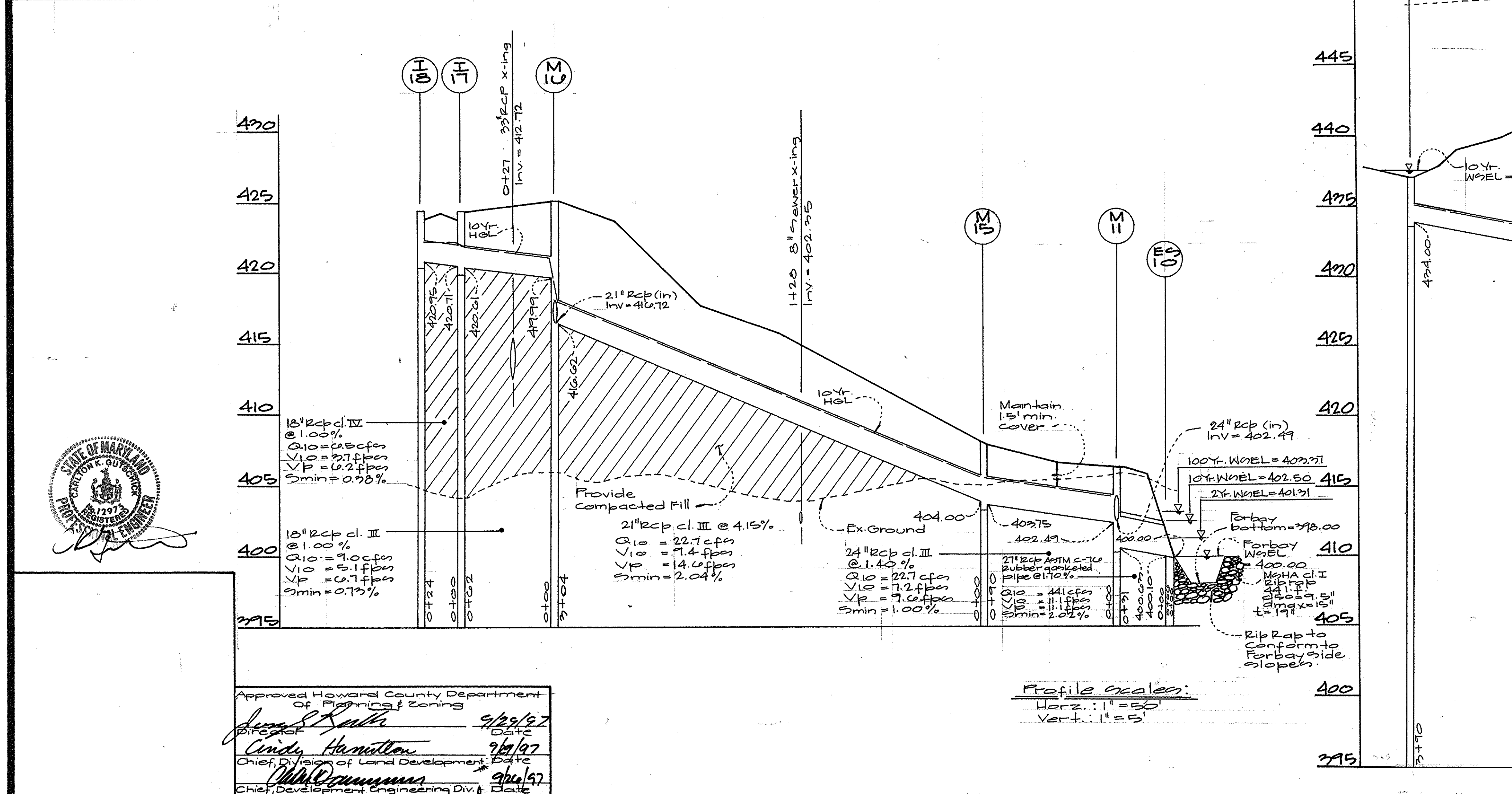
No	Type	Width (Inside)	Elevation Upper	Elevation Lower	Invert Upper	Invert Lower	Std. Detail	Locations *	Remark
I8	Modified Type 5 Inlet	4'-0"	421.50	-	416.65	415.70	See sheet 17 of 22	See Plan	Provide Reticular Grate per Ho. Co. std. 4.97
I9	Modified Type 5 Inlet	2'-0"	429.50	-	425.12	423.61	See sheet 17 of 22	See Plan	Provide Reticular Grate per Ho. Co. std. 4.97
I13	Corr. 15 Inlet	6'-0"	422.1	-	427.30	425.74	Std. 19+50	12' (L)	See pipe angle detail on sheet 17
I14	Type 5 Inlet	2'-7 1/2"	427.7	-	-	424.00	Ho. Co. SD 4.22	See Plan	Provide Reticular Grate per Ho. Co. std. 4.97
I17	A10 Inlet	2'-0"	424.7	-	420.71	420.61	Ho. Co. SD 4.02	See Plan	Provide Entrance Road Std. 13+52.95 12' (L)
I18	A10 Inlet	2'-0"	424.7	-	-	425.75	Ho. Co. SD 4.02	See Plan	Provide Entrance Road Std. 13+52.95 12' (L)
I19	Corr. 15 Inlet	4'-0"	422.5	-	418.77	418.02	Std. 19+50	See Plan	See pipe angle detail on sheet 17
M7	Std. Manhole	5'-0"	422.0	-	417.91	417.81	Ho. Co. G 5.13	See Plan	
M11	Std. Manhole	5'-0"	406.5	-	402.49	400.63	Ho. Co. G 5.13	See Plan	
M12	Shallow Manhole	4'-0"	408.0	-	404.00	403.25	Ho. Co. G 5.05	See Plan	
M15	Shallow Manhole	4'-0"	408.0	-	404.00	403.75	Ho. Co. G 5.05	See Plan	
M16	Std. Manhole	4'-0"	425.5	-	419.99	416.02	Ho. Co. G 5.12	See Plan	Provide Entrance Road Std. 14+27.50 15' (L)
M20	"	4'-0"	429.7	-	-	422.48	Ho. Co. G 5.12	See Plan	Plumbing Contractor is responsible for providing upper invert.
M21	"	4'-0"	442.2	-	-	425.31	Ho. Co. G 5.12	See Plan	Plumbing Contractor is responsible for providing upper invert.
M22	"	5'-0"	419.0	-	412.54	401.70	Ho. Co. G 5.13	See Plan	
E23	End of Pipe	-	-	-	-	418.26	-	See Plan	Provide Brick Bulkhead @ End of Pipe. Provide marker
E24	End of Pipe	-	-	-	-	417.40	-	See Plan	Provide Brick Bulkhead @ End of Pipe. Provide marker
ES10	21" Concrete End Section	4'-0"	402.59	-	400.10	400.00	Ho. Co. SD 5.52	See Plan	Provide marker

\* Note: ① All Locations are to centerline of structures, unless noted otherwise. For E23 + E24 Locations are to centerline @ end of pipe. ② All manhole covers are to be lockable.

### Pipe Schedule

Type & Size	Class	Quantity
6" PVC	schedule 40	300 LF
12" CPP **		500 LF
15" RCP	cl. IV	390 LF
18" RCP	cl. III	62 LF
16" RCP	cl. IV	24 LF
21" RCP	cl. III	204 LF
21" RCP	cl. IV	298 LF
24" RCP	cl. III	204 LF
27" RCP with Gasket	ASTM C-70	71 LF
33" RCP	cl. III	202 LF
33" RCP with Gasket	cl. IV	169 LF
33" RCP with Gasket	ASTM C-70	40 LF

\*\* CPP = Corrugated polyethylene pipe. (HiQ by Hancor or N-12) by ABB.

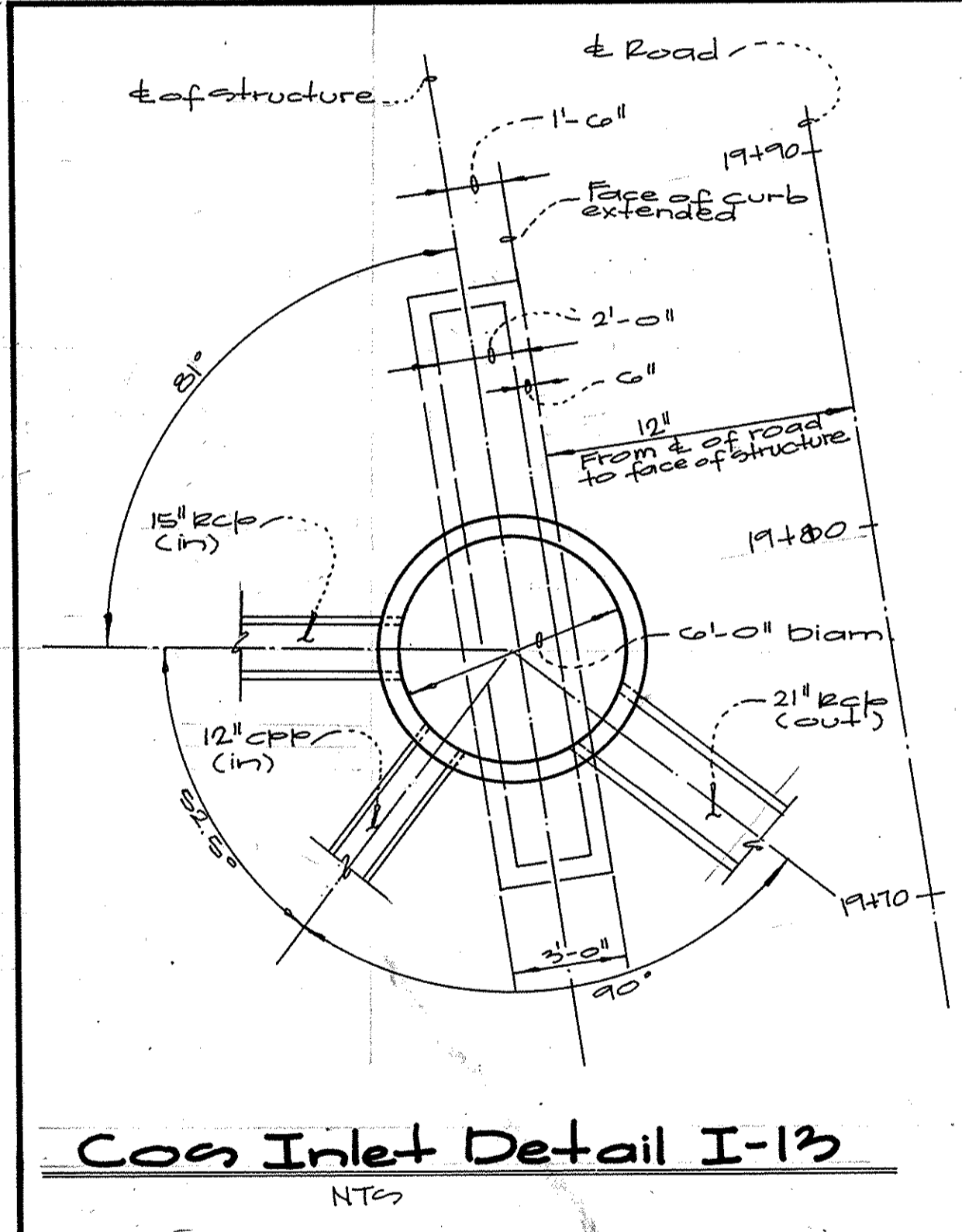
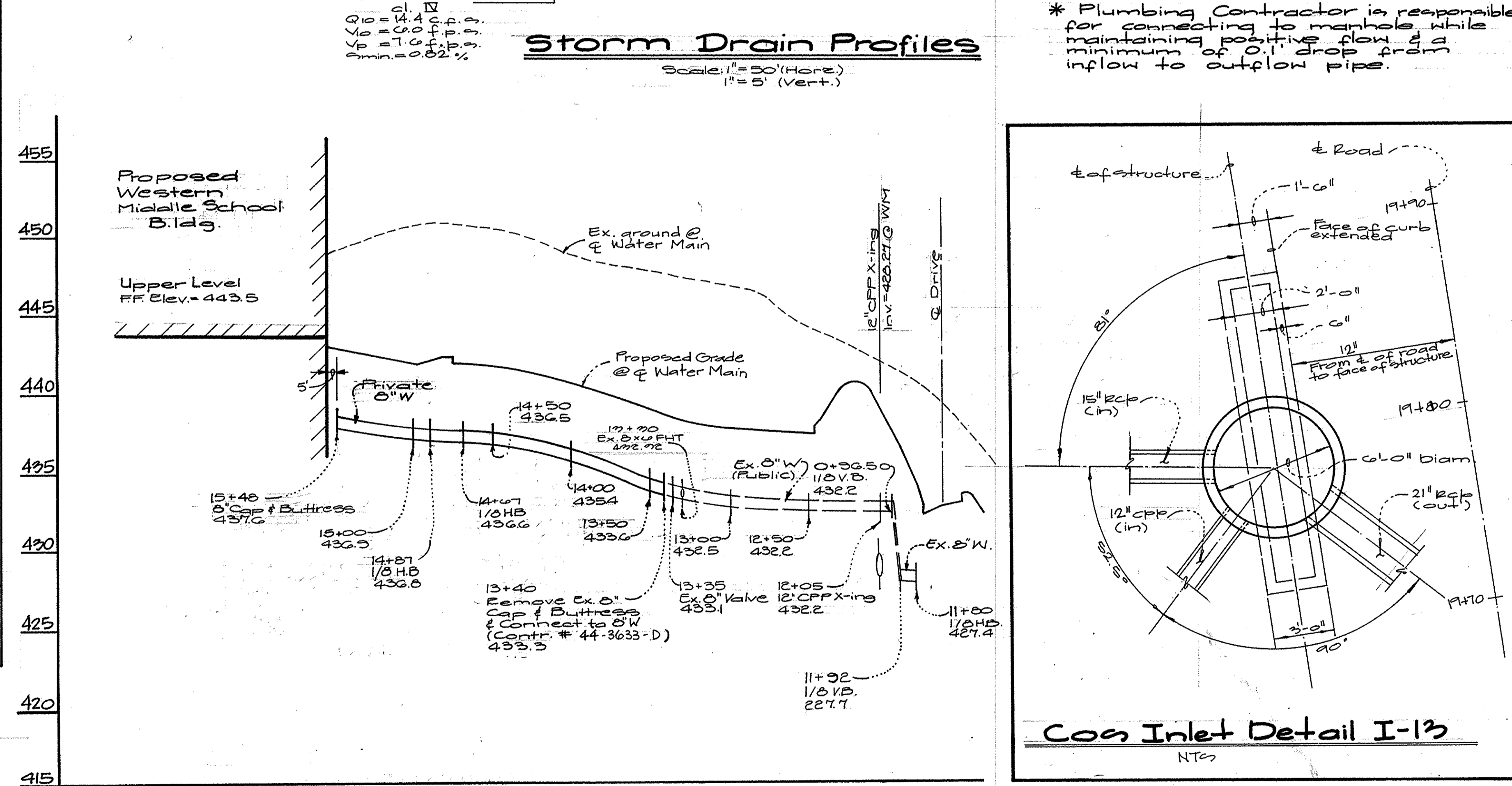
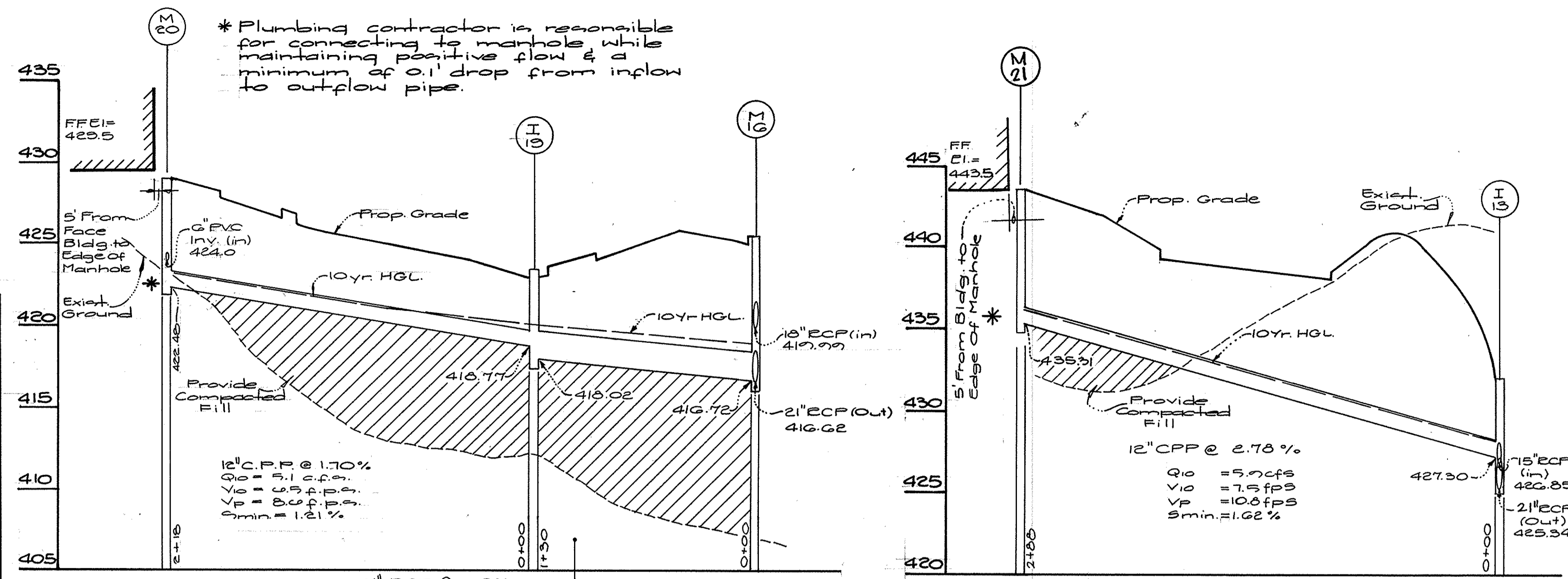
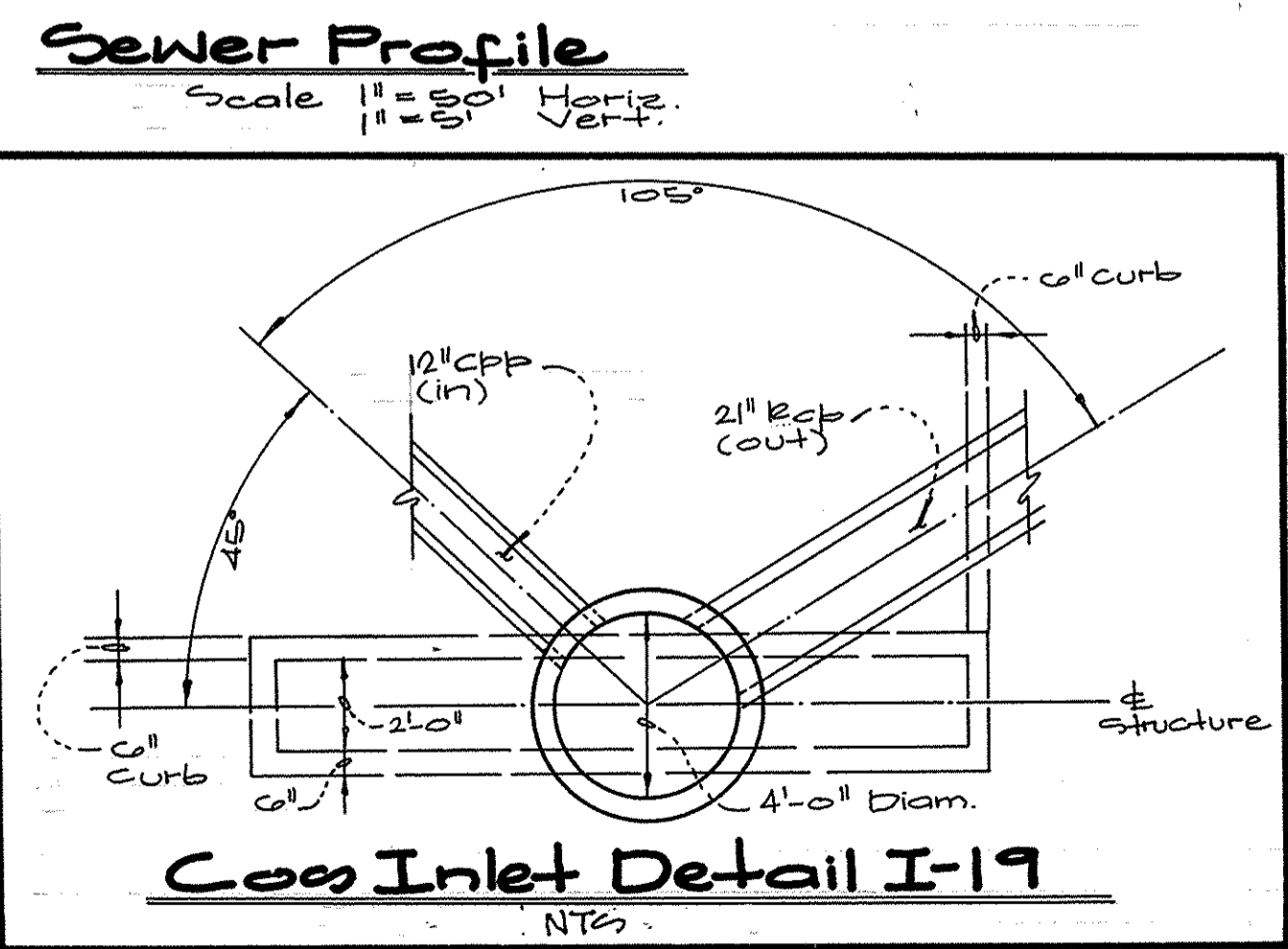
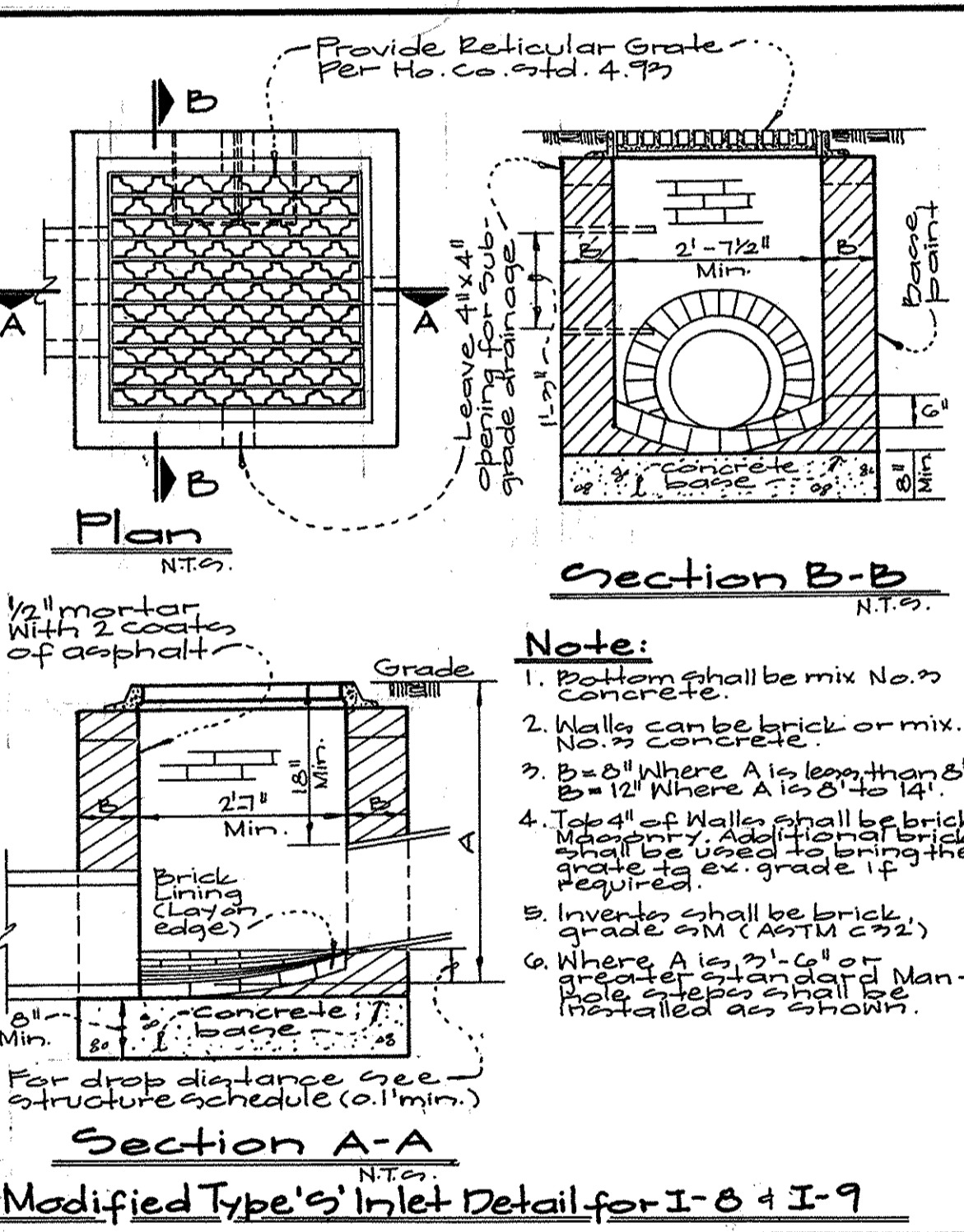
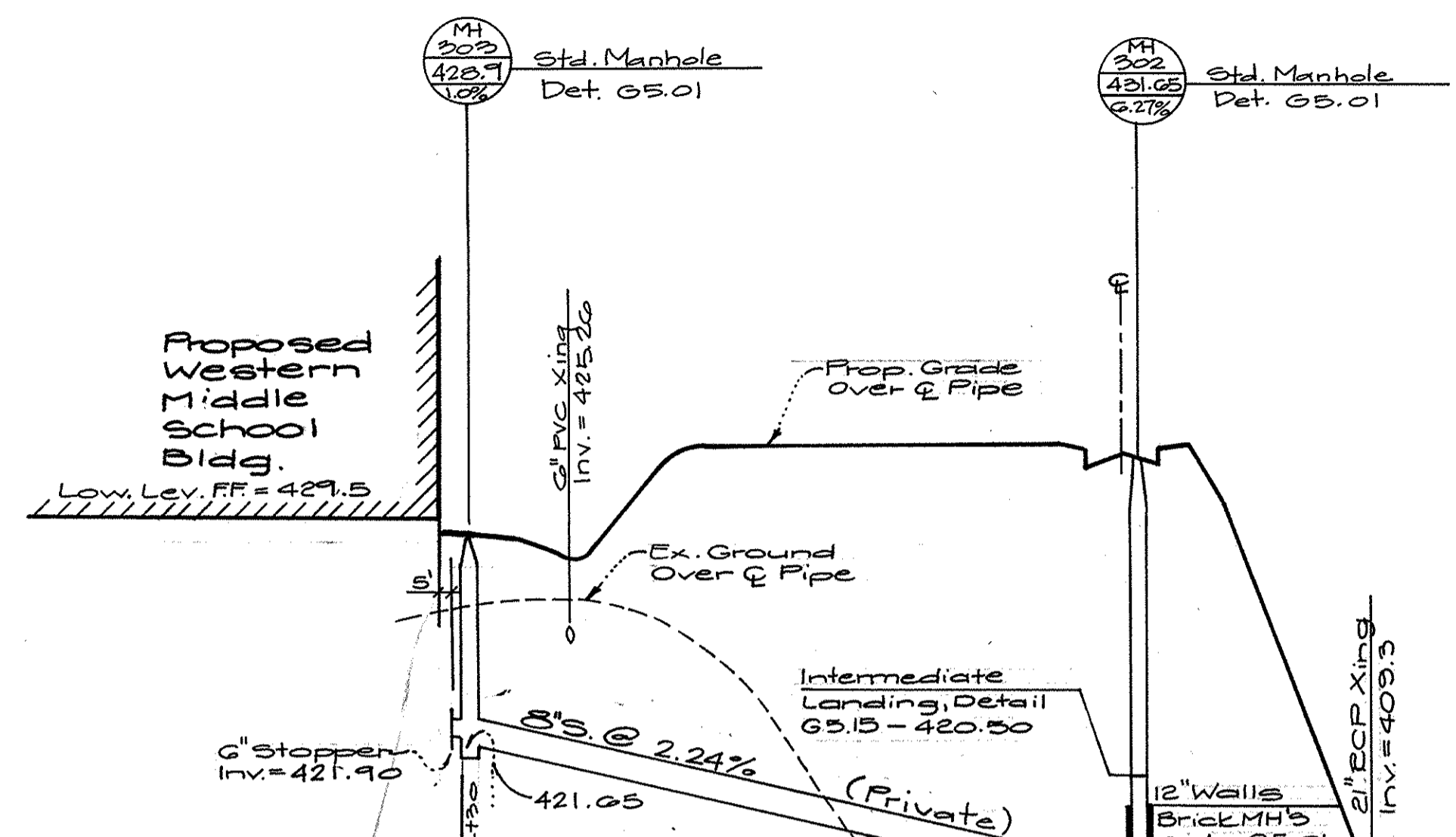


Approved Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief, Division of Land Development: *[Signature]* 9/29/97  
 Chief, Development Engineering Div.: *[Signature]* 9/29/97

Profile scales:  
 Horiz.: 1" = 50'  
 Vert.: 1" = 5'

SITWORK BID  
 19 AUGUST 97

<b>GLW GUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE • SUITE 250 • BURTONSVILLE OFFICE PARK • BURTONSVILLE, MD 20866 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)980-1820 FAX (301)421-4186	PREPARED FOR: Howard County Board of Education 10910 Route 108 Ellicott City, Maryland 21043 Attn: Bill Grau	<b>Storm Drain Profiles and Schedule</b> <b>Western Middle School No. 2</b> Parcel 115 13218 F.C.18 Howard County, Maryland Clarksville Election District No. 5	DES.: PDL SCALE: AS SHOWN ZONING: RE-DCO (17X0-3) G.L.W. FILE NO.: 96100 DRN.: G-1 DATE: 8-11-97 TAX MAP NO.: 41/4G SHEET: 10 OF 22 CHK.:
	DATE:                      REVISION:                      BY:                      APPR.:	SDD-98-01	



Approved Howard County Department of Planning & Zoning

*Joseph R. Smith* 9/29/97  
*Cindy Hammit* 9/29/97  
 Chief, Division of Land Development Code  
*Paul Williams* 9/24/97  
 Chief, Development Engineering Div. [unclear]

Private Water and Sewer Quantities	
Item	Quantity
8" Sewer (P.V.C.)	255 L.F.
8" Sewer (D.I.P.)	145 L.F.
6" Sewer (P.V.C.)	4 L.F.
4" Standard Manhole G501	3 ea.
8" Water (D.I.P.)	208 L.F.

**GW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:  
 Howard County Board of Education  
 10010 Route 100  
 Ellicott City, Maryland 21043  
 Attn: Bill Gray

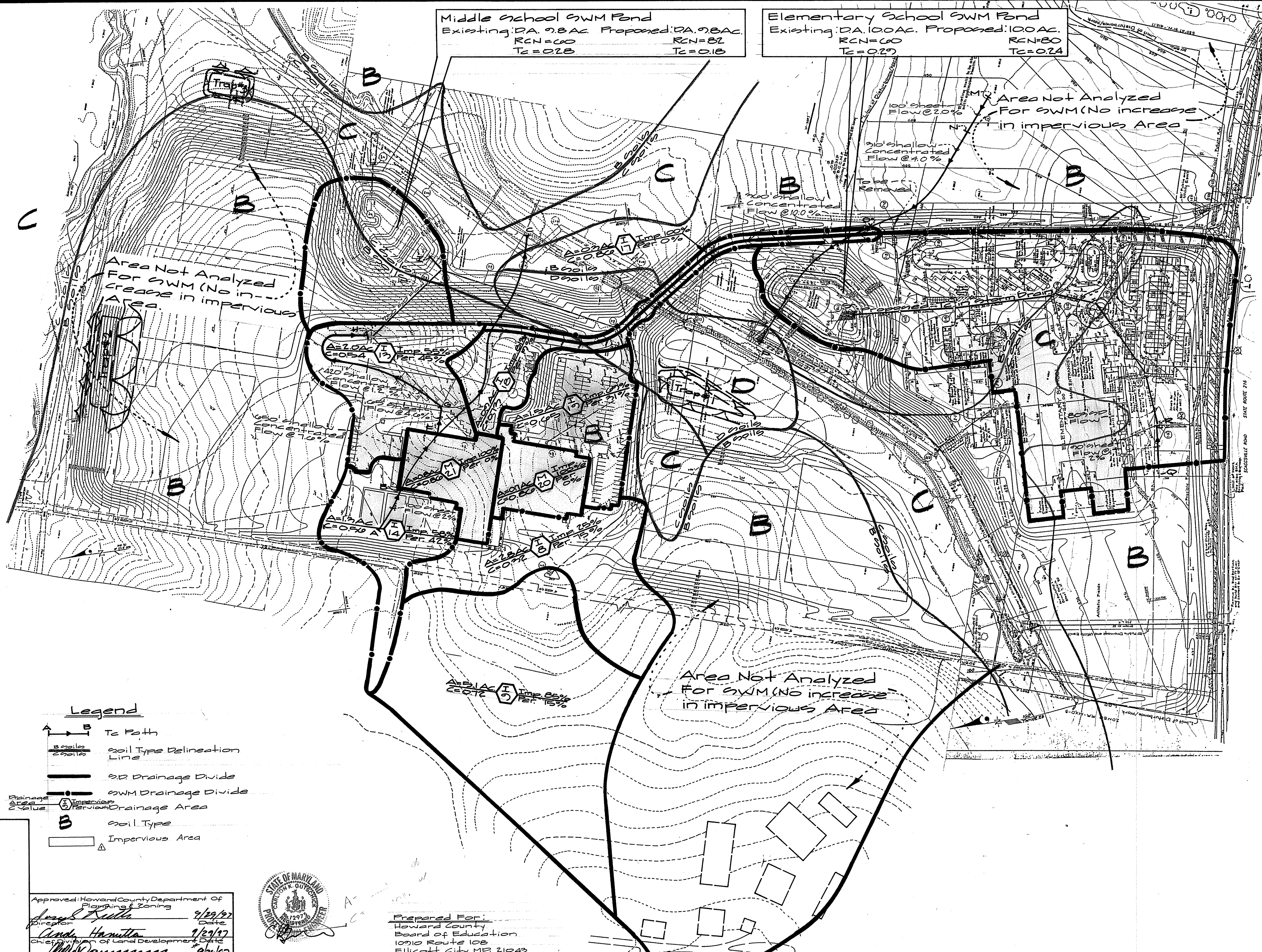
**STORM DRAIN, WATER AND SEWER PROFILES**

**Western Middle School No. 2**  
 Parcel 115  
 L3218 E018  
 Clarksville Election District No. 5

DES.	SCALE	ZONING	G.L.W. FILE No.
GAH/BSL	AS SHOWN	RE-DCO (17XD-3)	36100
DRN.	DATE	TAX MAP No.	SHEET
EVT/G+	August 11, 1997	41/9C	17 OF 22
CHK.			

Middle School SWM Pond  
 Existing: DA 9.8 AC Proposed: DA 9.8 AC  
 RCN=60 RCN=82  
 Tc=0.28 Tc=0.18

Elementary School SWM Pond  
 Existing: DA 100 AC Proposed: DA 100 AC  
 RCN=60 RCN=80  
 Tc=0.27 Tc=0.24



- Legend**
- A-B Tc Path
  - Soil Type Delineation Line
  - S.D. Drainage Divide
  - SWM Drainage Divide
  - Impervious Drainage Area
  - Soil Type
  - Impervious Area

Approved: Howard County Department of Planning & Zoning  
 Director: *Joseph R. Miller* 9/29/97  
 Chief, Department of Land Development: *Clayton Hammit* 9/29/97  
 Chief, Development Engineering: *Bill Dammann* 9/29/97



Prepared For:  
 Howard County Board of Education  
 10010 Route 108  
 Ellicott City, MD 21043  
 Attn: Bill Grau

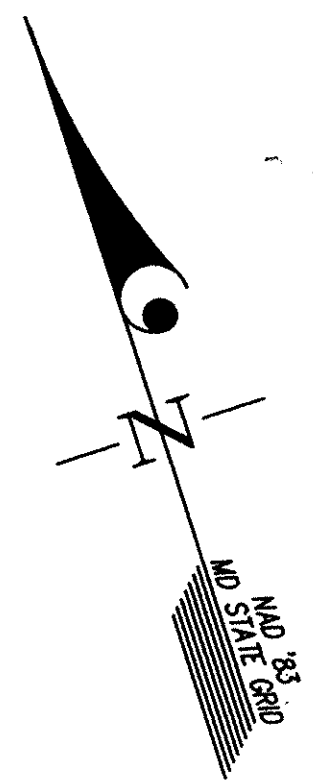
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE • SUITE 250 • BURTONSVILLE OFFICE PARK • BURTONSVILLE, MD. 20886  
 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
9-11-97	ADDED SHADING TO INDICATE IMPERVIOUS AREA	HKL	

Storm Drain and Stormwater Management Drainage Area Map  
**Western Middle School No. 2**  
 Parcel 115  
 L 2218 E.G.18  
 Clarksville Election District No. 5  
 Howard County, Maryland

DES.:	SCALE	ZONING	G.L.W. FILE NO.
BGL/SEE	1"=100'	EE-DCO (MXD-3)	36100
DRN.:	DATE	TAX MAP NO.	SHEET
WGL	8-11-1997	41/40	18 OF 22
CHK.:			

SDP-98-01



JOINS SHEET 20

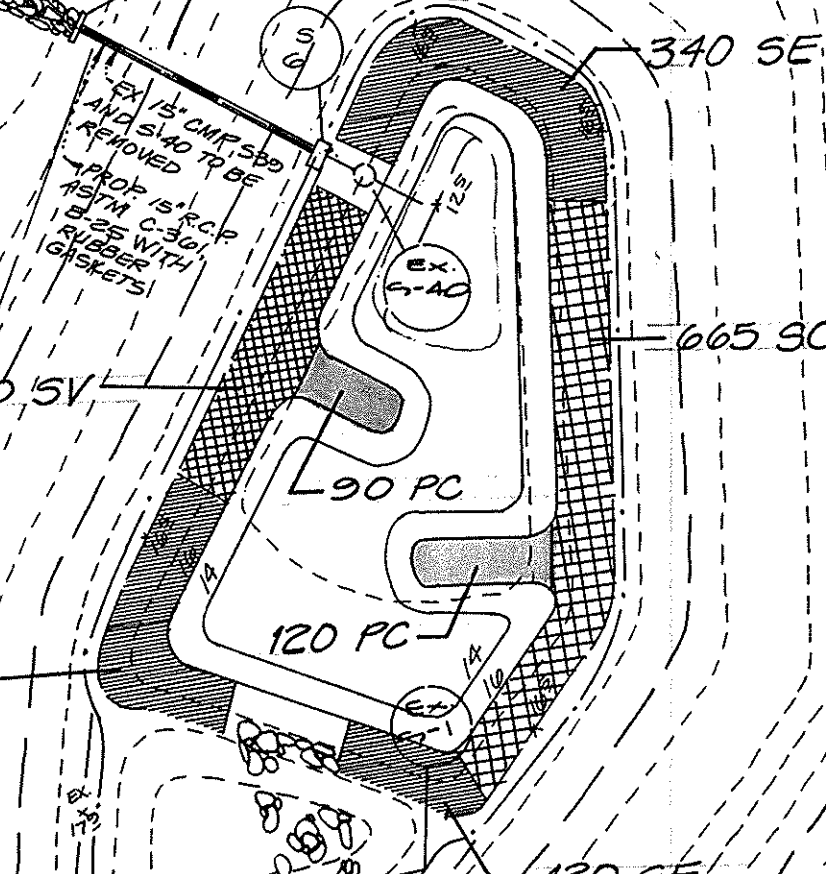
JOINS SHEET 20

IN ADDITION TO MATERIAL ILLUSTRATED 4 AR & 10 PS TO BE LOCATED ALONG CENTERLINE ROAD AS DIRECTED BY ARCHITECT IN FIELD

AREA RESERVED FOR FUTURE HIGH SCHOOL SWM FACILITY

FUTURE MANHOLE INV. 42' R.O.P. 418.28 PROVIDE BRICK BULKHEAD

3 AR @ 50' O.C.

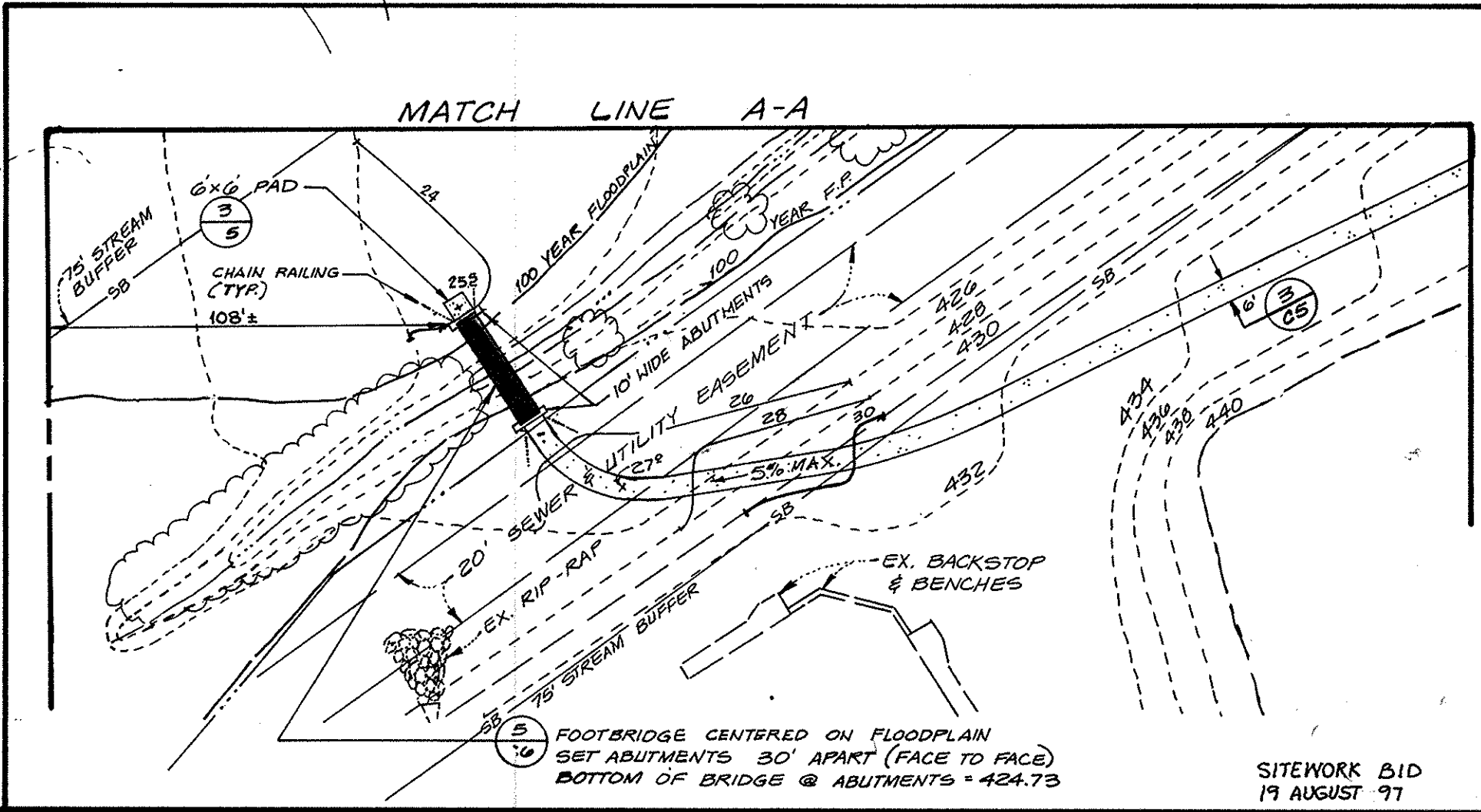


TO BE REMOVED BRICK SHUT 24" R.C.P. INV. 432.3 INVERT TO BE FIELD VERIFIED

This Plan is For Landscaping Purposes Only! Do Not Use for other site improvements



Approved: Howard County Department of Planning & Zoning  
 Cindy Hamilton 9/2/97  
 Chief of Division of Land Development  
 Date 9/2/97  
 Chief Development Engineering



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 MD. VA: (301) 989-2524 BALT. (410) 680-1820 FAX: (301) 421-4186 DES. DRN. CHK.

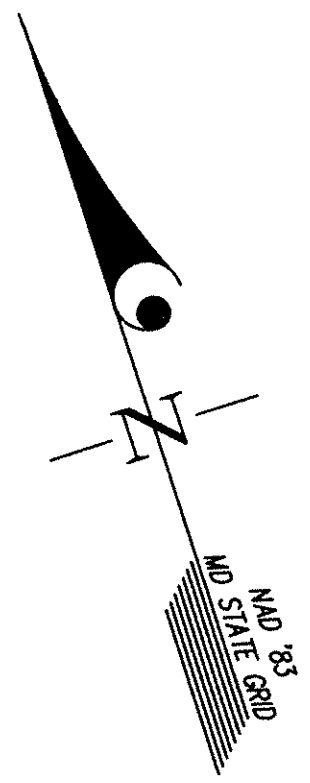
DATE	REVISION	BY	APPR.

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAY

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L3218 F018  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEQ (MXD-3)	G. L. W. FILE No. 96100
DATE 8-11-97	TAX MAP No. 41/46	SHEET 19 of 22

SPP-98-01



This Plan is For  
Landscaping Purposes Only!  
Do Not Use for other site  
improvements



Approved: Howard County Department of  
Planning & Zoning  
*Joseph Saitta* 9/29/97  
Chief, Division of Land Development  
*Cindy Hammit* 9/29/97  
Chief, Development Engineering Div. & P&T  
*Mike DeMunn* 9/29/97

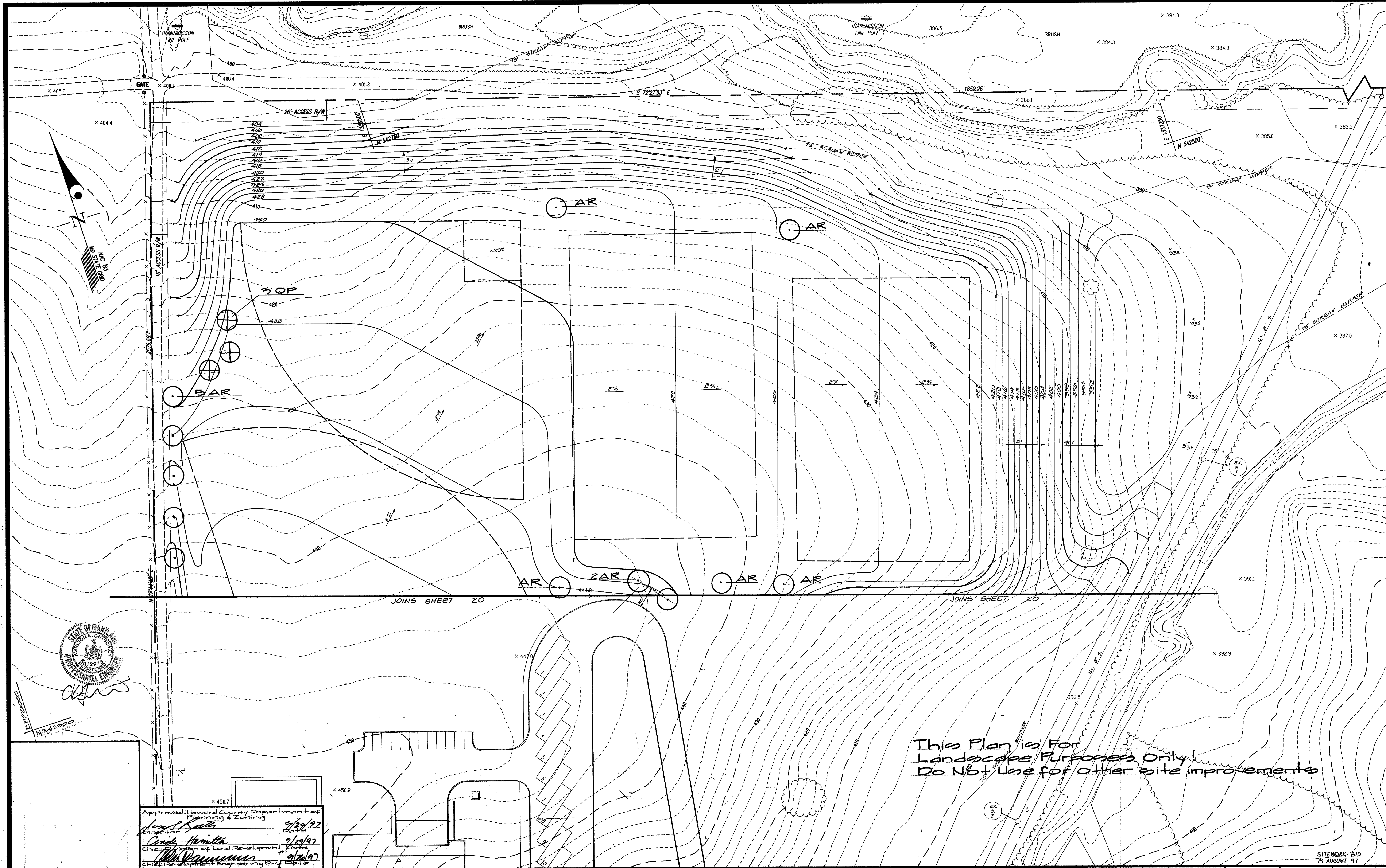
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
TEL: (301) 421-4024 NO. VA.: (301) 980-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APP'R.

OWNER:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAY

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 115  
L. 2218 F. 018  
CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO (MXD-3)	G. L. W. FILE No. 96100
DATE 8-11-97	TAX MAP No. 41/46	SHEET 20 OF 22



Approved: Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief of Land Development: *[Signature]* 9/16/97  
 Chief Development Engineering: *[Signature]* 9/29/97

This Plan is For Landscape Purposes Only!  
 Do Not Use for other site improvements

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20886  
 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186

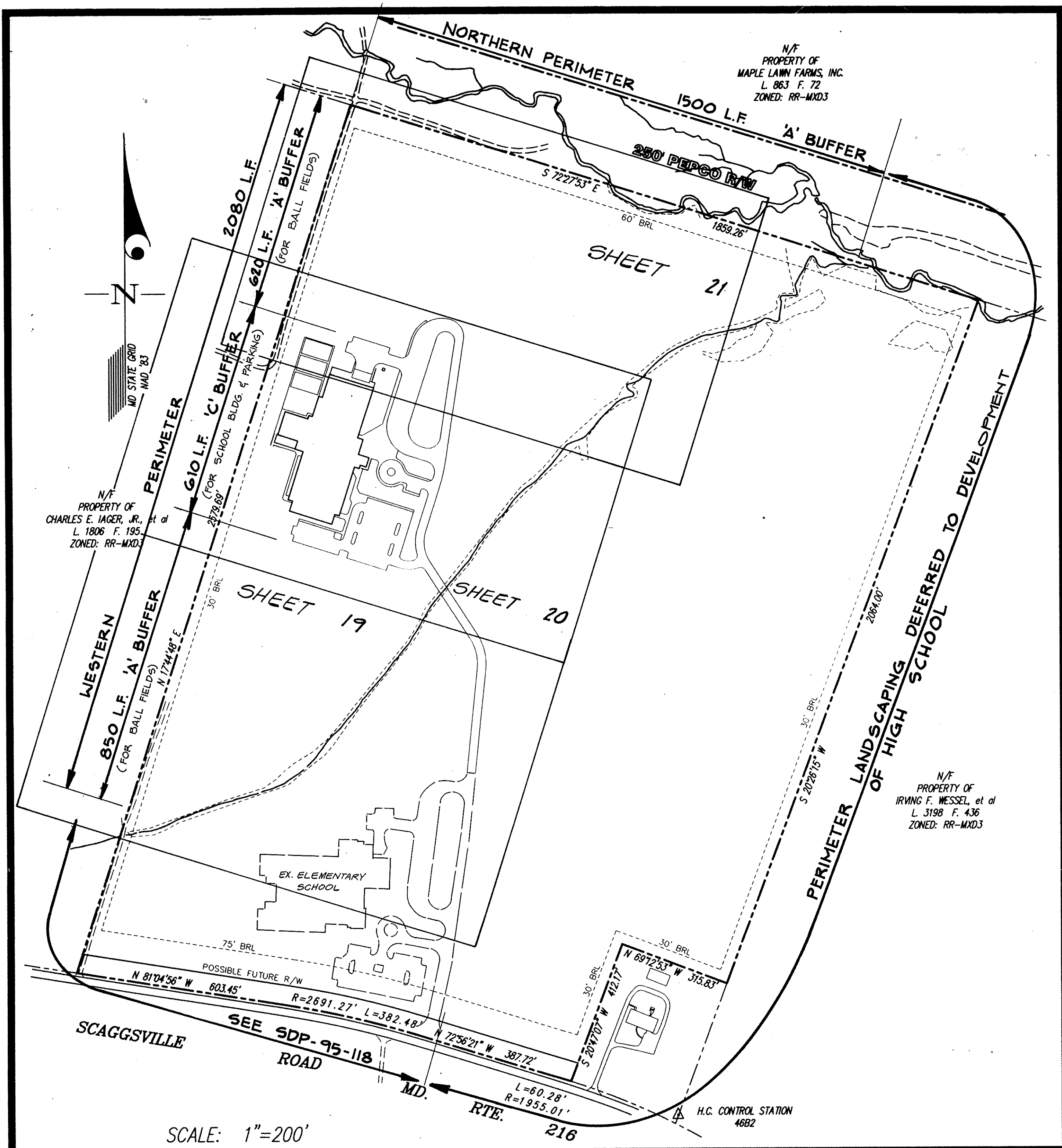
NO.	DATE	REVISION	BY	APPR.

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L3218 F.01B  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	210E22





PLANT LIST						
SYMBOL	KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	REMARKS
⊕	QP	20	QUERCUS PALUSTRIS	PIN OAK	2 1/2"-3" CAL. 12"-14" HT.	B & B
⊙	AR	64 + 4	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2"-3" CAL. 12"-14" HT.	B & B
⊙	PC	10	PRUNUS CERASIFERA 'THUNDERCLOUD'	PURPLELEAF FLOWERING PLUM	1 3/4"-2" CAL. 8"-10" HT.	B & B
⊙	ZS	4	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2 1/2"-3" CAL. 12"-14" HT.	B & B
⊙	MZ	28	MALUS ZUMI 'CALOCARPA'	ZUMI CRABAPPLE	1 3/4"-2" CAL. 8"-10" HT.	B & B
⊙	PS	65 + 10	PINUS STROBUS	WHITE PINE	6"-8" HT.	B & B
⊙	EP	110	EUONYMUS PATENS 'PAULI'	PAULI EUONYMUS	24"-30" HT.	CONT. 3'-0" O.C. U.O.N.*
⊙	JA	15	JUNIPERUS HORIZONTALIS COMPACTA	ANDORRA JUNIPER	18"-24" HT.	CONT. 4'-8" O.C. U.O.N.
⊙	JS	49	JUNIPERUS CHINENSIS 'SARGENTI'	SARGENTS JUNIPER	18"-24" HT.	CONT. 4'-8" O.C. U.O.N.
⊙	PF	62	PHOTINIA FRASERI	FRASER'S RED TIPPED PHOTINIA	30"-36" HT.	CONT. 5'-0" O.C.
⊙	CE	34	ALATUS COMPACTUS	DWARF WINGED EUONYMUS	30"-36" HT.	CONT. 3'-0" O.C. U.O.N.

\* U.O.N. = UNLESS OTHERWISE NOTED    ⊕ ADDITIONAL TREES ALONG ENTRA. DRIVE PER NOTE ON SHEET 19

**LANDSCAPING NOTES**

- This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Landscape Manual.
- Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet C-1 shall apply.
- Field verify underground utility locations and existing conditions before starting planting work. Contact architect if any relocations are required.
- Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- No substitution shall be made without written consent of the owner or his representative.
- All areas disturbed by construction activities but not otherwise planted, sodded, paved, or mulched shall be seeded in accordance with project specifications.
- The contractor shall notify the architect in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
- ALL EXPOSED EARTH WITHIN LIMITS OF PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.

**SWM POND PLANT LIST FOR BOTH PONDS (ELEMENTARY & MIDDLE SCHOOL)**

KEY	QTY	NAME (COMMON/BOTANICAL)	REMARKS
PC	615	Pickereel Weed/Pondederia cordata	Bare Root @ 18" O.C.
SC	1625	Lizards Tail/Saururus cernuus	Bare Root @ 18" O.C.
SE	1591	Giant Bur-reed/Sparganium eurycarpum	Bare Root @ 18" O.C.
SV	750	Soft Stem Bullrush/Scirpus validus	Bare Root @ 18" O.C.

**SWM POND PLANTING NOTES**

- Upon conversion of sediment control pond to stormwater management pond, the contractor shall remove any stones, debris, or construction material larger than two inches (2") in any dimension. The ponds shall be flooded and left undisturbed for a period of 10 days prior to planting.
- One ounce of 18-6-25 slow release fertilizer shall be incorporated into the soil for each plant at the time of planting.
- Soil shall be saturated with water during and after planting, or the planting area may be completely flooded at this time (wet planting). Planting soil shall be firmly pressed around each to prevent flotation.
- The source of all aquatic and emergent plants shall be approved by the owner or landscape architect prior to ordering. These plants shall be grown in pots (container specified) or nursery growing beds (bare root specified for a minimum of 12 months prior to installation and shall have been wet cultivated during the entire period.
- All plant material shall be guaranteed for a period of one year after formal acceptance. Plants which have greater and 33% dieback or have not grown so as to emerge from the water surface, shall be replaced at the next planting season.
- Remove litter and debris as required during the first growing season and at the beginning of the second growing season.

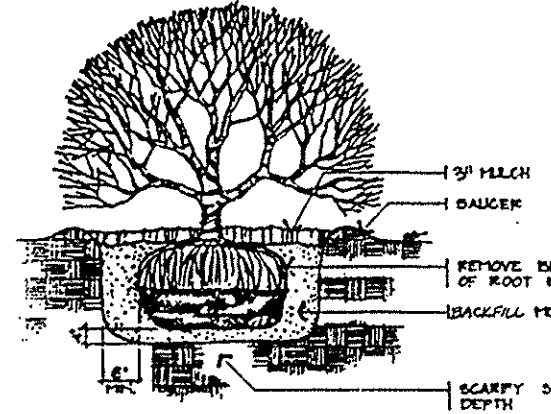
**SCHEDULE A - PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTY		
	WESTERN PERIMETER	NORTHERN PERIMETER	A
Landscape Type	A	C	A
Linear Feet of Roadway Frontage/Perimeter	1470'	610'	1500
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	0	0	100% credit by existing trees along floodplain
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	0	0	
Number of Plants Required			
Shade Trees	25	15	25
Evergreen Trees	0	31	
Shrubs	0	0	
Number of Plants Provided			25 as existing shade trees.
Shade Trees	25	12	
Evergreen Trees	0	31	
Other Trees (2:1 substitution)	0	0	
Shrubs (10:1 substitution)	0	43*	

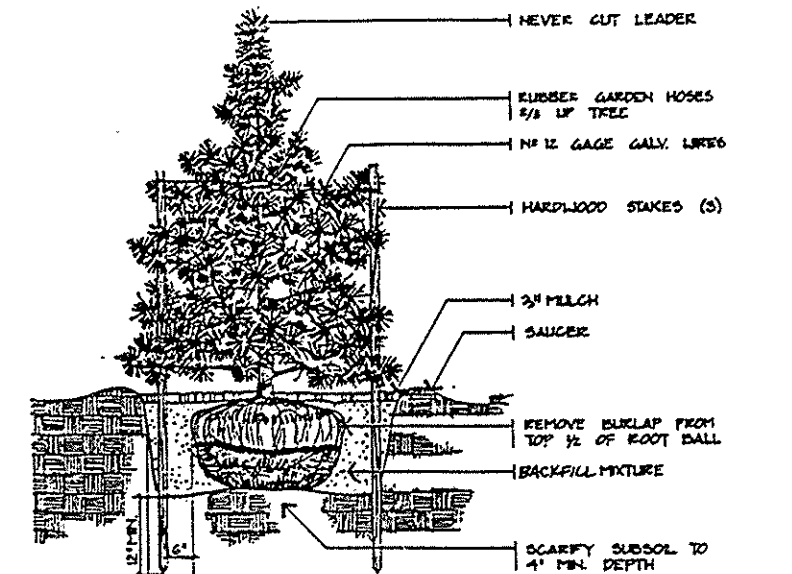
**SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING**

Number of Parking Spaces	114 CAR SPACES + 14 BUS SPACES
Number of Trees Required	6 (SIX)
Number of Trees Provided	
Shade Trees	OVER 6
Other Trees (2:1 substitution)	

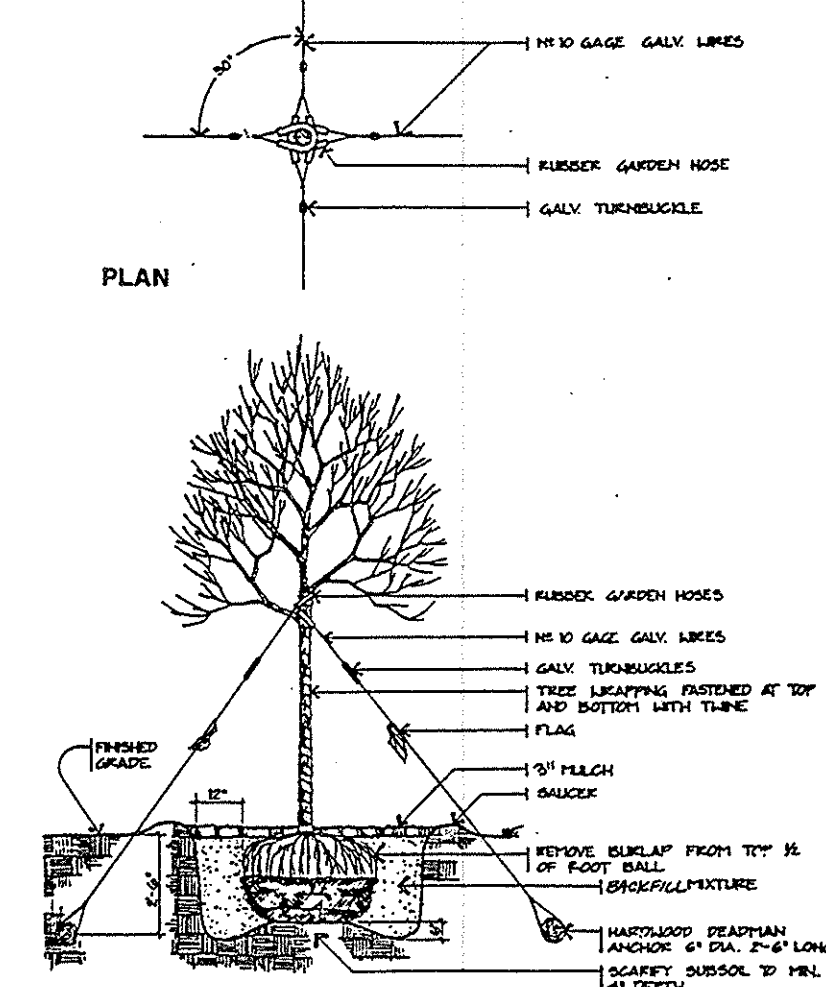
\* SUBSTITUTION FOR 3 SHADE TREES



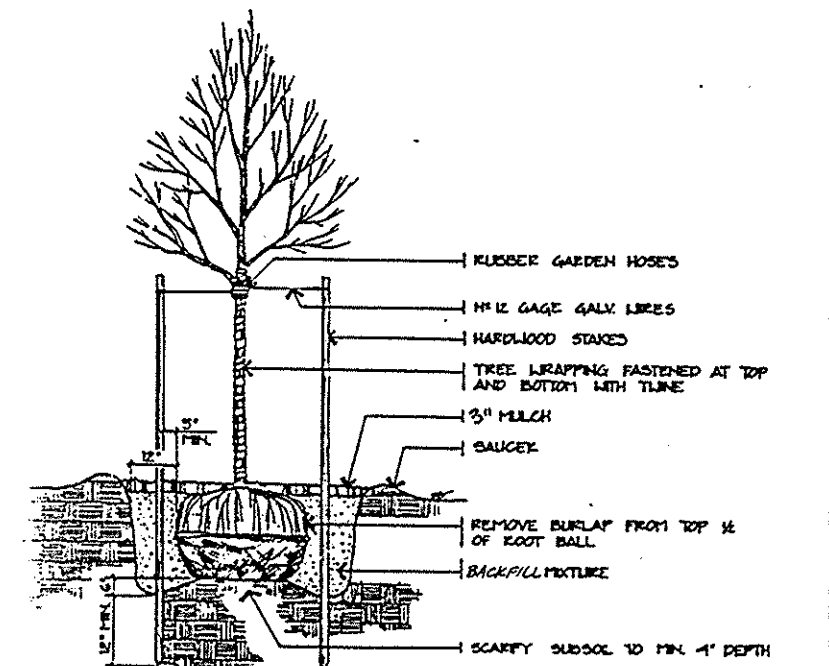
TYPICAL B&B SHRUB PLANTING NO SCALE



TYPICAL EVERGREEN TREE PLANTING & STAKING NO SCALE



TYPICAL TREE GUYING NO SCALE



TYPICAL DECIDUOUS TREE PLANTING & STAKING NO SCALE

STATE OF MARYLAND  
 DEPARTMENT OF PLANNING & ZONING  
 Approved: Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief of Division of Land Development: *[Signature]* 9/29/97  
 Chief, Development Engineering Div.: *[Signature]* 9/29/97

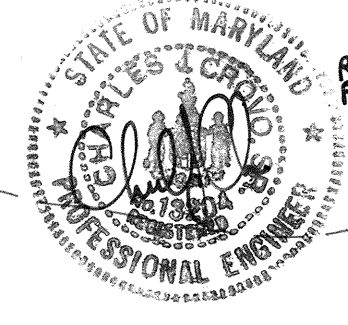
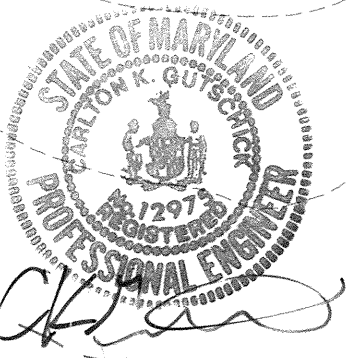
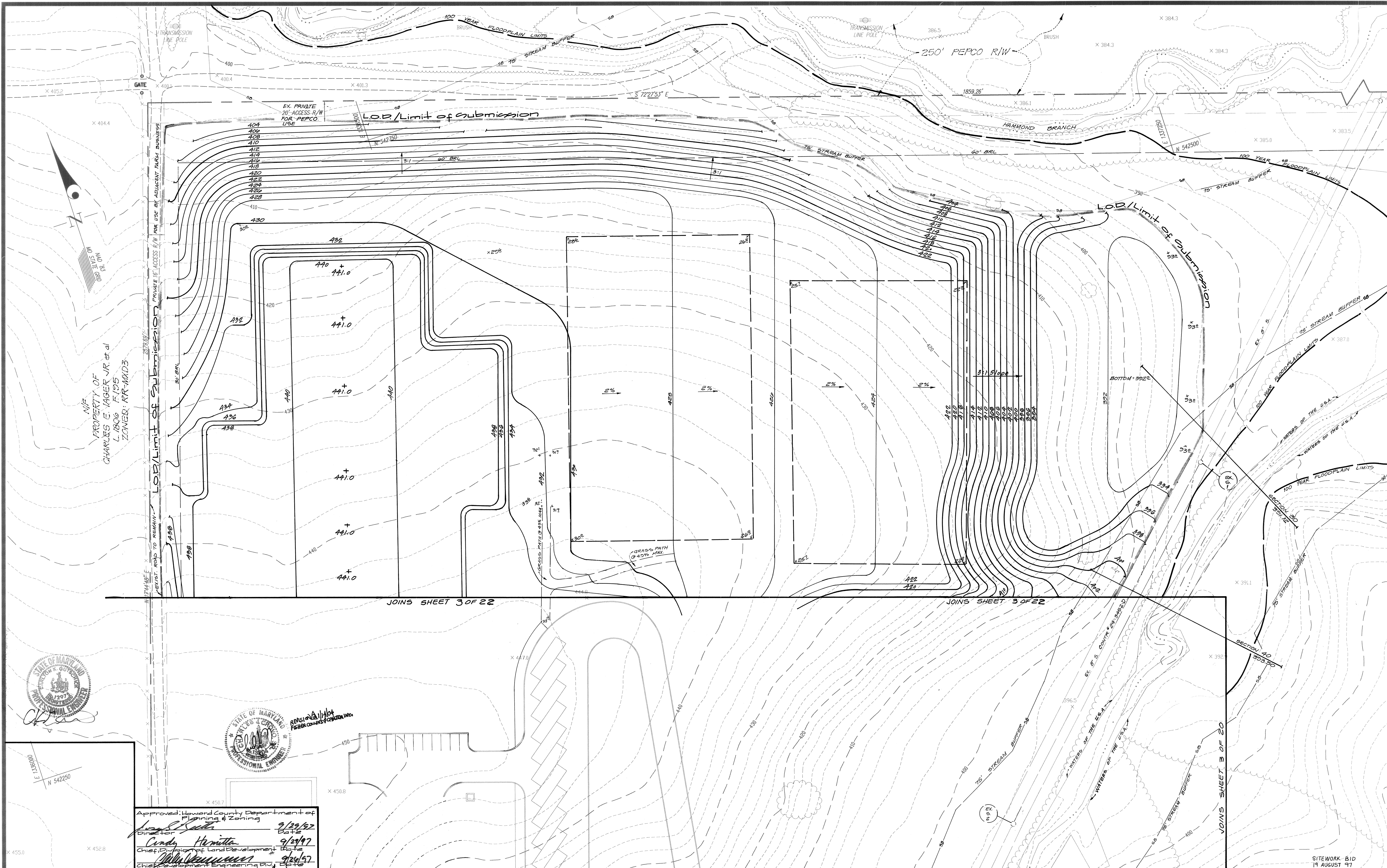
**GW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866  
 TELEPHONE: (301)421-4024 NO VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 MARYLAND ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

LANDSCAPE NOTES, DETAILS AND SCHEDULES  
**Western Middle School No. 2**  
 Parcel 115  
 L-3218 E.C.18  
 Clarksville Election District No. 5 Howard County, Maryland

DES.:	SCALE	ZONING	G.L.W. FILE NO.
DRN.:	—	BE-250 (RR-3)	36100
CHK.:	DATE	TAX MAP NO.	SHEET
	8-11-97	41/4G	22 of 22



Approved: Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief, Division of Land Development: *[Signature]* 9/29/97  
 Chief, Development Engineering: *[Signature]* 9/29/97

REVISION 11/16/97  
 FISHER COLLENS & PARTNER INC.

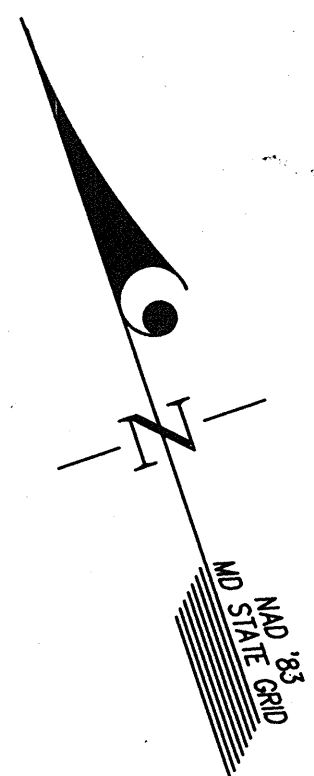
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
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 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

NO.	DATE	BY	APPR.	REVISION
1	1-14-04	BVC	APP'R.	Added building pod grading for proposed school

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L 721B F 01B  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO (MXD-3)	G. L. W. FILE No. 96100
DATE 8-11-97	TAX MAP No. 41/46	SHEET 4 of 22



JOINS SHEET 20

JOINS SHEET 20

IN ADDITION TO MATERIAL ILLUSTRATED 4AR & 10PS TO BE LOCATED ALONG CENTRALICE ROAD AS DIRECTED BY ARCHITECT IN FIELD

AREA RESERVED FOR FUTURE HIGH SCHOOL SWM FACILITY

FUTURE MANHOLE INV. 42" R.C.P. 418.28 PROVIDE BRICK BULKHEAD

3AR @ 500.0

340 SE

350 SV

120 PC

320 SE

340 SE

365 SC

340 SE

320 SE

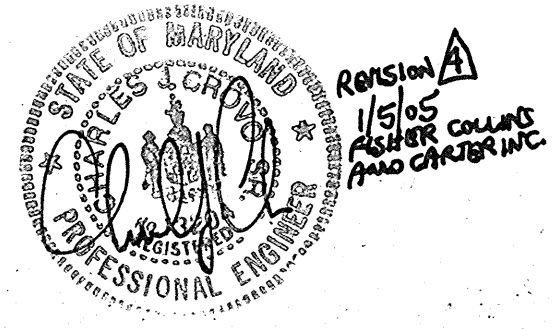
340 SE

320 SE

340 SE

320 SE

340 SE

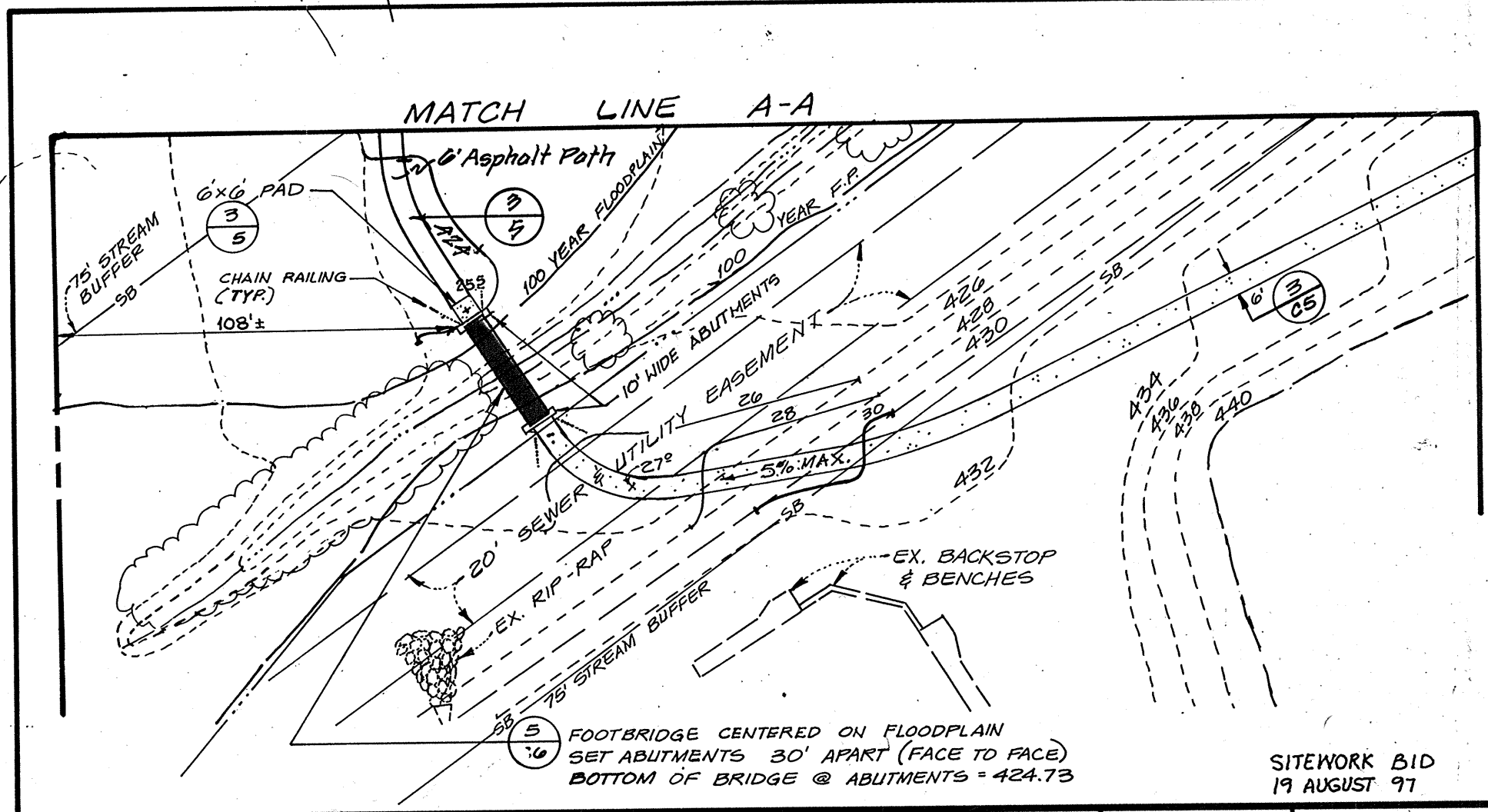


RONALD A. HAMILTON  
15105  
REGISTERED PROFESSIONAL ENGINEER  
LANDSCAPE ARCHITECT  
AND CHARTERED

This Plan is For Landscaping Purposes Only!  
Do Not Use for other site improvements



Approved: Howard County Department of Planning & Zoning  
Director: *David Deeds* 7/29/97  
Chief, Division of Land Development: *Conrad Hamilton* 7/29/97  
Chief, Department of Engineering: *Chris Damman* 8/6/97



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	REVISION	BY	APPR.
1-8-98	Road widening, utility relocation & new asphalt & concrete walks	F.C.D.	

OWNER:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAY

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 115  
L-9218 F-018  
CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	19 of 22

SDP-98-01



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Landscape Purposes Only!  
Do Not Use for other site improvements



Approved: Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief, Division of Land Development: *[Signature]* 7/19/97  
 Chief, Development Engineering: *[Signature]* 9/29/97

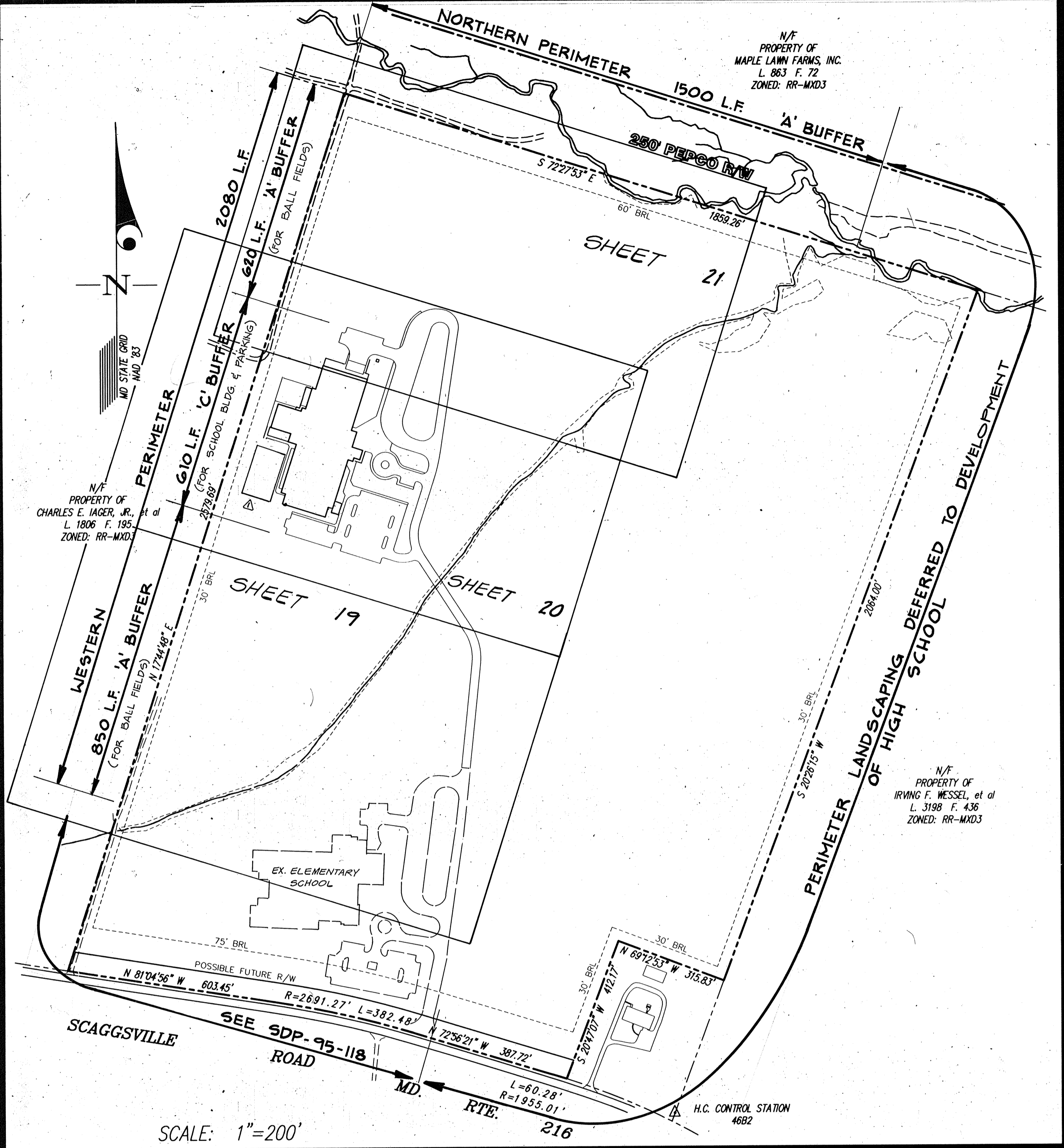
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. CHK.

DATE	BY	APPR.
1-14-02	SVC.	

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

LANDSCAPE PLAN  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L3218 E018  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO (MXD-3)	96100
DATE	TAX MAP No.	SHEET
8-11-97	41/46	21 OF 22



PLANT LIST						
SYMBOL	KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	REMARKS
⊕	QP	20	QUERCUS PALUSTRIS	PIN OAK	2 1/2"-3" CAL. B & B	
⊕	AR	64+4	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2"-3" CAL. B & B	
⊕	PC	10	PRUNUS CERASIFERA 'THUNDERCLOUD'	PURPLELEAF FLOWERING PLUM	1 3/4"-2" CAL. B & B	
⊕	ZS	4	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2 1/2"-3" CAL. B & B	
⊕	MZ	28	MALUS ZUMI 'CALOCARPA'	ZUMI CRABAPPLE	1 3/4"-2" CAL. B & B	
⊕	PS	65+10	PINUS STROBUS	WHITE PINE	6'-8" HT. B & B	
⊕	EP	110	EUONYMUS PATENS 'PAULI'	PAULI EUONYMUS	24"-30" HT. CONT.	3'-0" O.C. U.O.N.*
⊕	JA	15	JUNIPERUS HORIZONTALIS COMPACTA	ANDORRA JUNIPER	18"-24" HT. CONT.	4'-6" O.C. U.O.N.
⊕	JS	40	JUNIPERUS CHINENSIS 'SARGENTI'	SARGENT'S JUNIPER	18"-24" HT. CONT.	4'-6" O.C. U.O.N.
⊕	PF	62	PHOTINIA FRASERI	FRASER'S RED TIPPED PHOTINIA	30"-36" HT. CONT.	5'-0" O.C.
⊕	CE	34	ALATUS COMPACTUS	DWARF WINGED EUONYMUS	30"-36" HT. CONT.	3'-0" O.C. U.O.N.

- LANDSCAPING NOTES**
- This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Landscape Manual.
  - Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet C-1 shall apply.
  - Field verify underground utility locations and existing conditions before starting planting work. Contact architect if any relocations are required.
  - Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
  - All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
  - No substitution shall be made without written consent of the owner or his representative.
  - All areas disturbed by construction activities but not otherwise planted, sodded, paved, or mulched shall be seeded in accordance with project specifications.
  - The contractor shall notify the architect in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
  - ALL EXPOSED EARTH WITHIN LIMITS OF PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.

**SWH POND PLANT LIST FOR BOTH PONDS (ELEMENTARY & MIDDLE SCHOOL)**

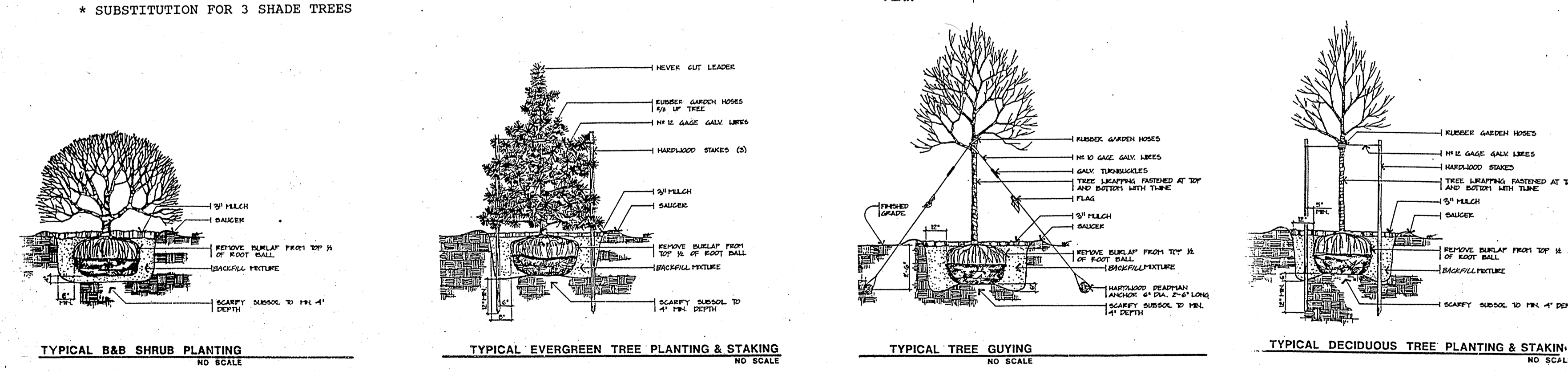
KEY	QTY	NAME (COMMON/BOTANICAL)	REMARKS
PC	615	Pickeral Weed/Pondederia cordata	Bare Root @ 18" O.C.
SC	1025	Lizards Tail/Saururus cernuus	Bare Root @ 18" O.C.
SE	1931	Giant Bur-reed/Sparganium eurycarpum	Bare Root @ 18" O.C.
SV	750	Soft Stem Bullrush/Scirpus validus	Bare Root @ 18" O.C.

**SCHEDULE A - PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTY		
	WESTERN PERIMETER	NORTHERN PERIMETER	
Landscape Type	A	C	A
Linear Feet of Roadway Frontage/Perimeter	1470'	610'	1500
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	0	0	100% credit by existing trees along floodplain
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	0	0	
Number of Plants Required			
Shade Trees	25	15	25
Evergreen Trees	0	31	
Shrubs	0	0	
Number of Plants Provided			
Shade Trees	25	12	25 as existing shade trees.
Evergreen Trees	0	31	
Other Trees (2:1 substitution)	0	0	
Shrubs (10:1 substitution)	0	43*	

**SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING**

Number of Parking Spaces	114 CAR SPACES + 14 BUS SPACES
Number of Trees Required	6 (SIX)
Number of Trees Provided	OVER 6
Shade Trees	
Other Trees (2:1 substitution)	



Approved: Howard County Department of Planning & Zoning

*Joseph R. Kuth* 2/29/97  
Director

*Andy Hamilton* 2/29/97  
Chief, Division of Land Development

*John Dammann* 2/29/97  
Chief, Development Engineering Div.

**GW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD. 20866  
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APPR.
1-25-04	Instal New Additions, Relocate Play Area	D.K.T.	

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 MARYLAND ROUTE 108  
ELLCOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

Landscape Notes, Details and Schedules

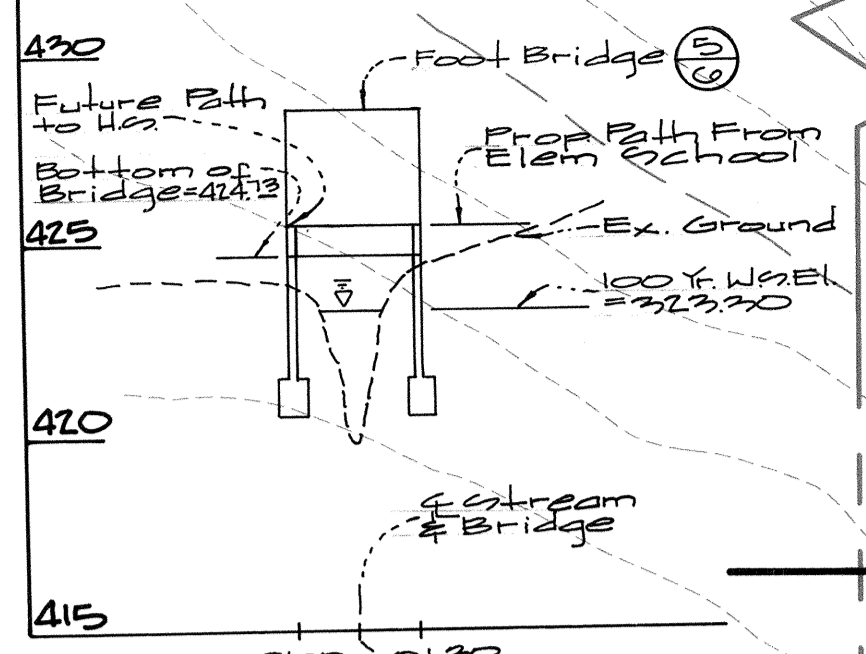
**Western Middle School No. 2**  
Parcel 115  
L-3215 F-018  
Clarksville Election District No. 2

DES.:	SCALE	ZONING	G.L.W. FILE NO.
DRN.:	—	RR-DEO (MXD-3)	96100
CHK.:	DATE	TAX MAP No.	SHEET
	8-11-97	41/46	22 of 22

Elementary School Pond Summary					
Storm	Q <sub>ex</sub>	Q <sub>to Pond</sub>	Q <sub>out</sub>	Pond W <sub>2</sub> EL	Storage Volume
2 Year	30	10.6	2.1	418.92	0.53 Ac. ft.
10 Year	130	75.1	11.0	419.41	1.04
100 Year	270	50.6	30.9	420.15	1.40

\* MANAGEMENT NOT REQUIRED

NOTE: THE ELEMENTARY SCHOOL POND MANAGES THE 2, 10, AND 100 YEAR STORMS AND PROVIDES A RETENTION POOL FOR QUALITY TREATMENT. IT IS A PRIVATE FACILITY WITH A 10-ACRE DRAINAGE AREA. IT IS A HAZARD CLASS "A" FACILITY WITH 257 AC. FT. IN FLOODMENT POOL STORAGE.



Foot Bridge Profile

Profile scales:  
Horizontal: 1"=50'  
Vertical: 1"=5'



DEVELOPER'S/BUILDER'S CERTIFICATE

"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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature of Developer/Builder: *[Signature]* Date: 8/1/97

ENGINEER'S CERTIFICATE

"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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer: *[Signature]* Date: 6-25-97

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: *[Signature]* Date: 9/24/97

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

Signature of District Engineer: *[Signature]* Date: 9/24/97

AS-BUILT DOCUMENT FOR PONDS

THIS AS-BUILT DOCUMENT IS ACCURATE AND COMPLETE, AND THE POND CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.

Approved: *[Signature]* 9/23/97  
 Chief, Department of Land Development  
*[Signature]* 9/23/97  
 Chief, Development Engineering Div.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
 TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALI: (410) 880-1820 FAX: (301) 421-4186

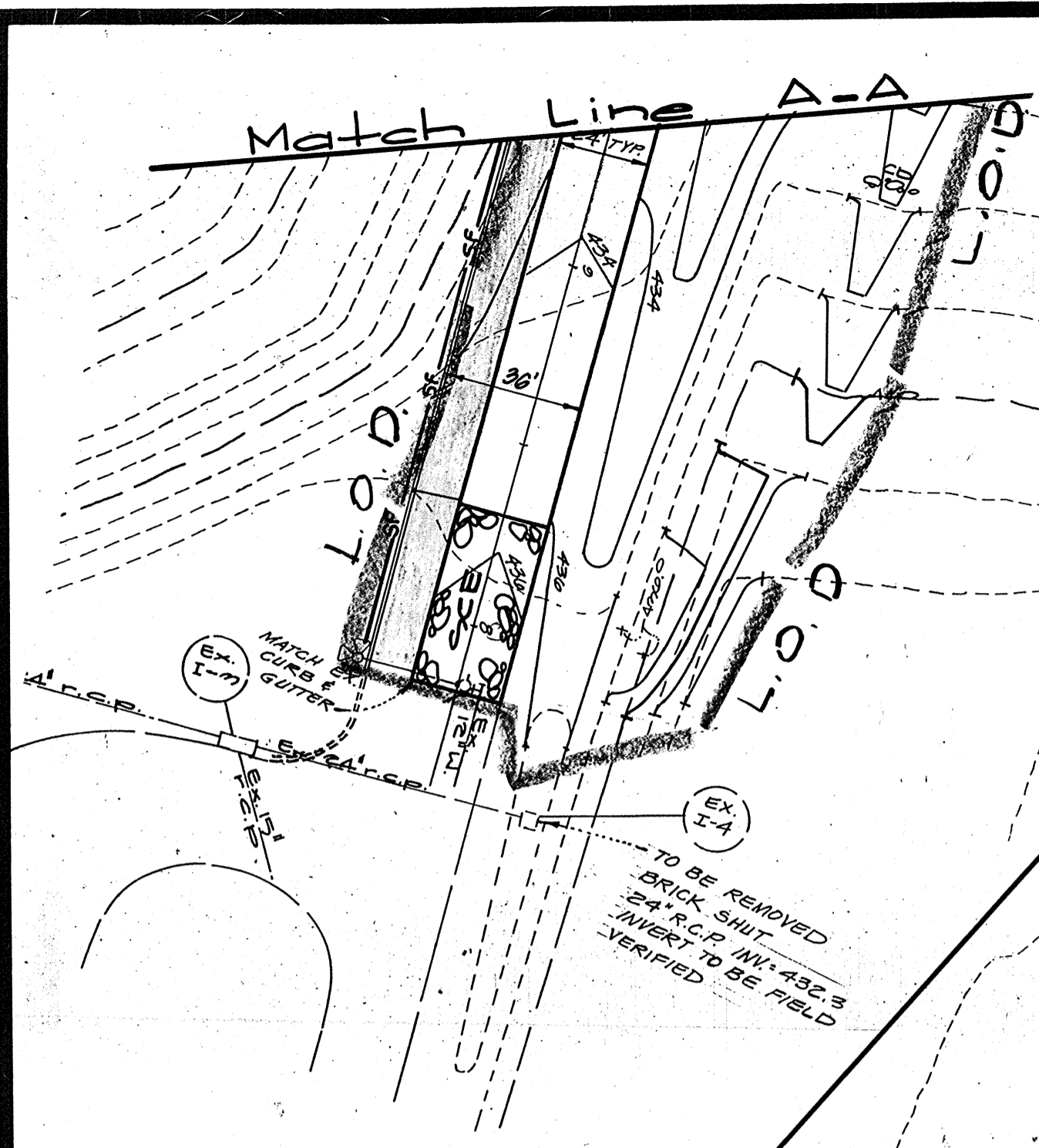
DATE	REVISION	BY	APP'R.
1-8-97	Road widening, utility relocation & new asphalt & concrete walk	PKZ	
9-12-97	LABEL SWM POND #2 & DARKEN SOIL BORINGS & REVISE RIP, RAP & EV-B	HSL	
9-12-97	EXTENDED PROP CURBS ALONG ACCESS ROAD TO MEET EX. CURB	IKJ	

OWNER:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 2**  
 PARCEL 115  
 L 9218 F 010  
 CLARKSVILLE ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO (MXD-3)	G. L. W. FILE No. 96100
DATE 8-11-97	TAX MAP No. 41/46	SHEET 2 of 22

SDP-98-a



- ### Legend
- - - - - Exist. Contour
  - - - - - Initial Grading Contour
  - - - - - Prop./ultimate Grading Contour
  - 42.8 Spot Elevation
  - - - - - Exist. storm Drain
  - - - - - Prop. storm Drain
  - - - - - Silt Fence
  - - - - - Super Silt Fence
  - - - - - Orange Safety Fence
  - ▲ Exist. Earth Dike
  - ▶ Earth Dike
  - I.P. Inlet Protection
  - I.B. Inlet Blocking
  - ▣ Stone Construction Entrance
  - ▣ R.P.S. Removable Pumping Station
  - ▣ L.O.D. Limit of Disturbance
  - ▣ Check Dam
  - - - - - Before Development Drainage Divide
  - - - - - After Development Drainage Divide
  - R.P.P. rip rap protection

**Trap #1 Stone/Rip-Rap Outlet Sediment Trap - 0+12 Data**

Before Dev. D.A.	9.7 Ac.
After Dev. D.A.	9.7 Ac.
Volume Required (sed. contr.)	10020
Volume Provided	10020 c.f. @ 405.75
Temp SWM (1800 c.f./Ac.)	10020 c.f. @ 407.00
Inv. Release Orifice (Ø" PVC)	407.00
Vol. Required SWM	29187 c.f.
Vol. Provided SWM	31,700 c.f. @ 410.10
Bottom Elev.	404.00
Top of Dam Elev.	412.10
Wear Crest Elev.	410.10
Wear Channel Depth	2.0'
Wear Channel Width	12.0'
Clearout Elev.	404.98'
Q released thru 3" orifices	2.8 c.f.s.

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.

*Chief Simmons*  
Natural Resources Conservation Section  
9/24/97  
Date

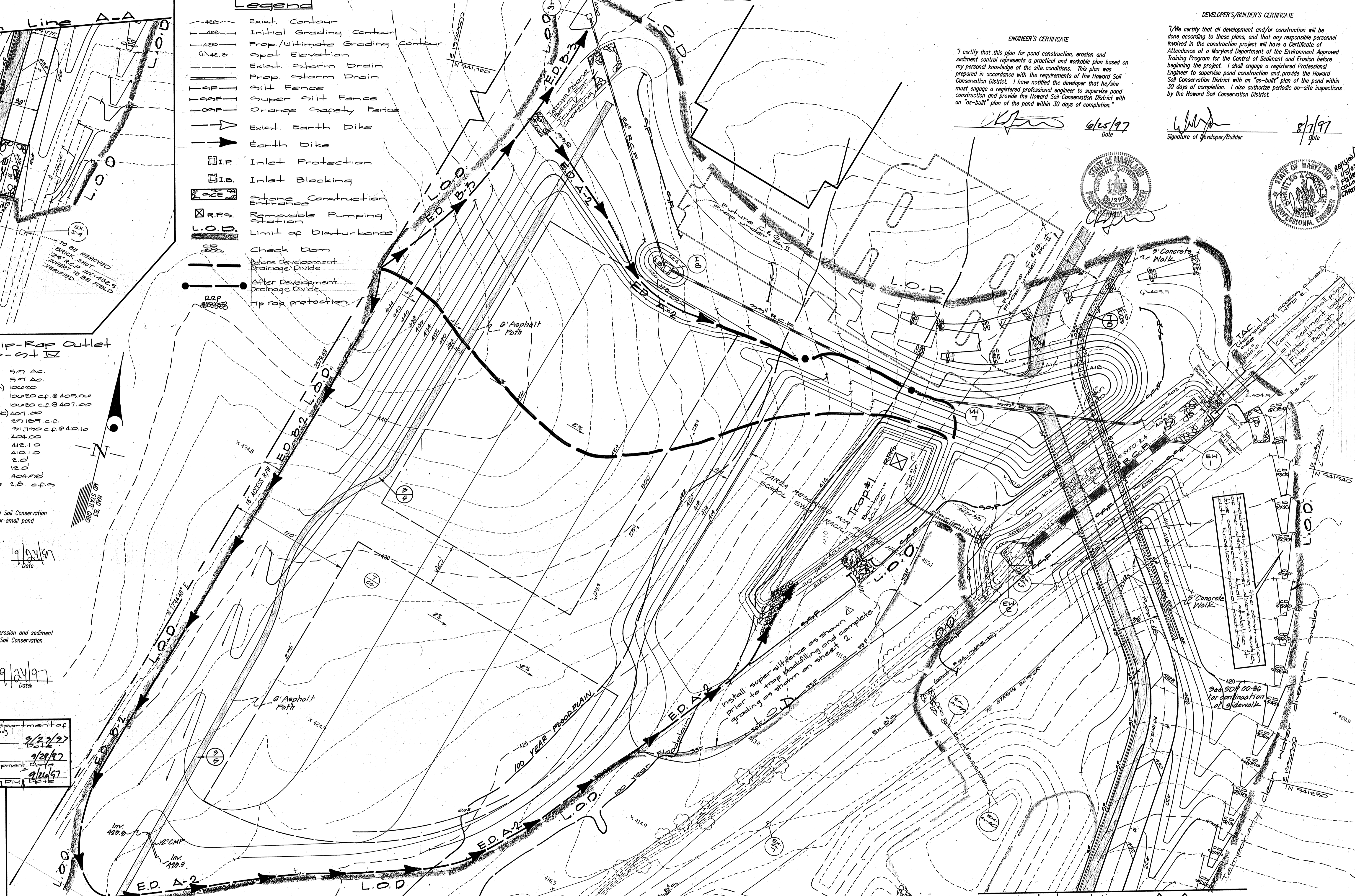
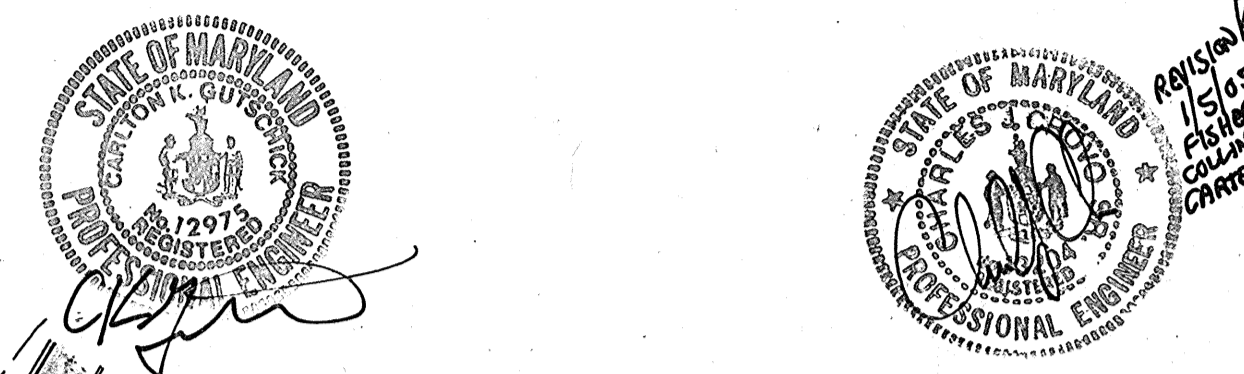
These Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*Robert W. Johnson*  
Howard Soil Conservation District  
9/24/97  
Date

Approved: Howard County Department of Planning & Zoning  
*Carol Hamilton* 9/23/97  
Chief, Department of Land Development  
*John D. ...* 9/24/97  
Chief, Development Engineering Division

**ENGINEER'S CERTIFICATE**  
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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*W. ...* 9/25/97  
Date  
*W. ...* 9/27/97  
Signature of Developer/Builder  
Date



For sediment control for Foot Bridge see sheet C-11.

This Plan is for sediment control only!  
Do Not Use For Other Site Improvements!

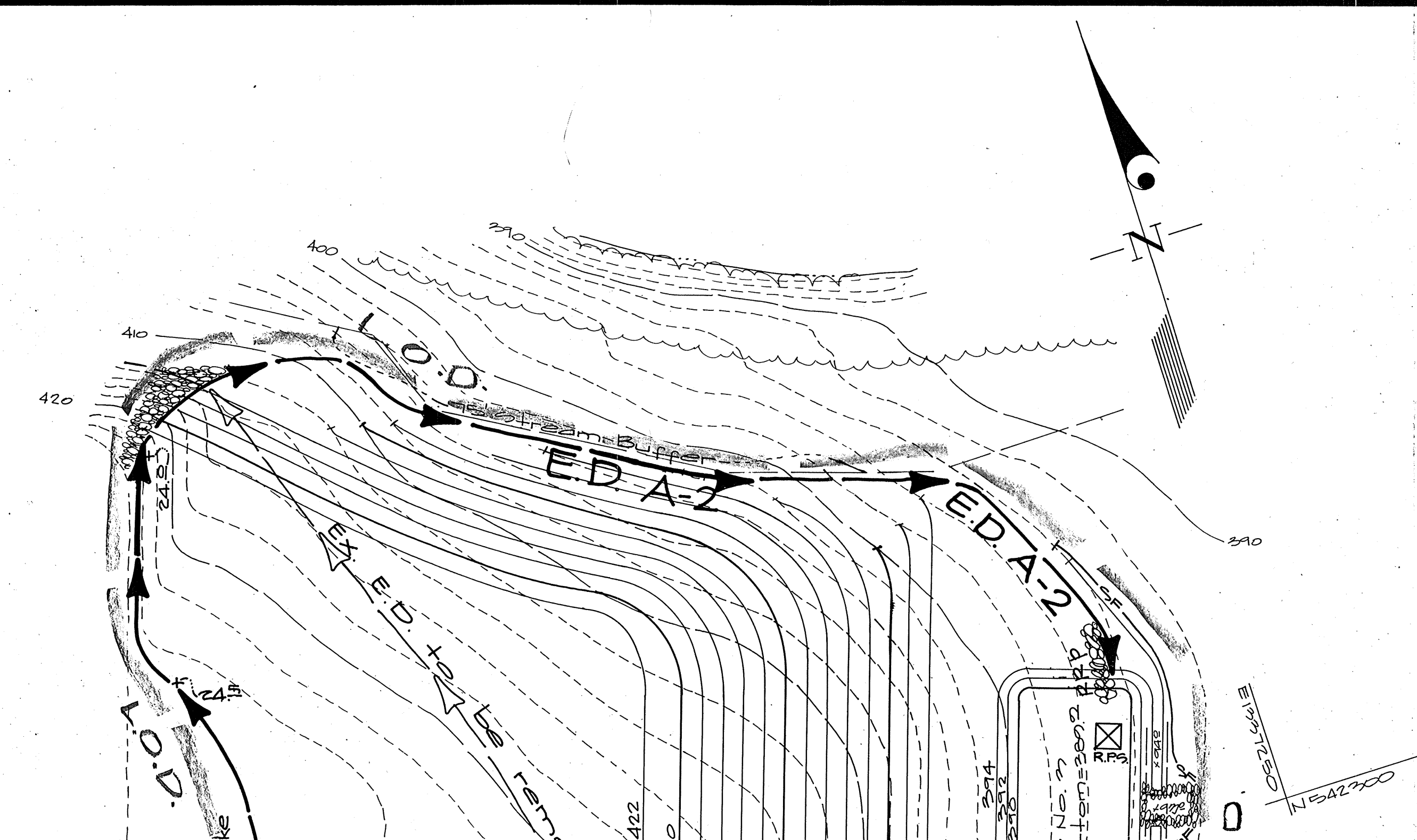
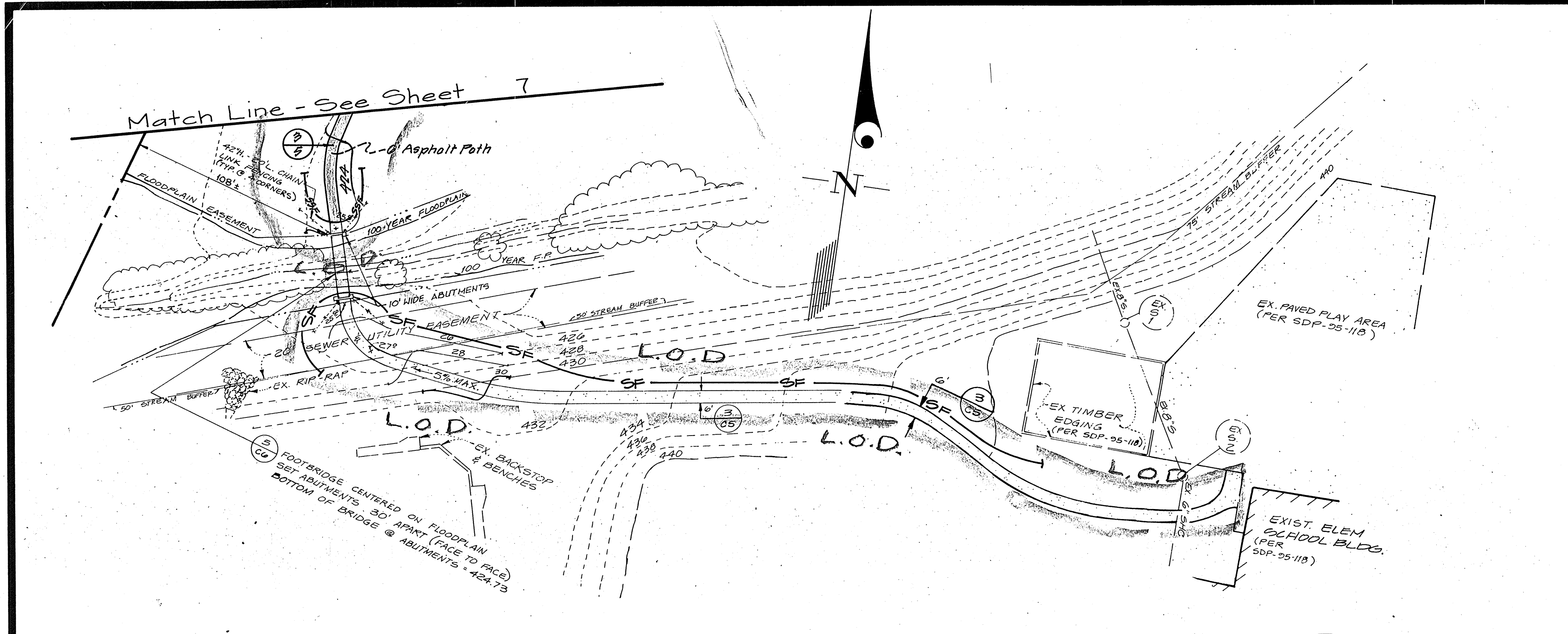
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
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3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20886  
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
9-10-97	Rev. plan to show 33F downhill of Trap #1 w/ note	PCO	MCF

PREPARED FOR:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLICOTT CITY, MARYLAND 21043  
ATTN: BILL GRAU

**WESTERN MIDDLE SCHOOL No. 2**  
PARCEL 115  
L 7218 F 018  
CLARKSVILLE ELECTION DISTRICT No. 5  
HOWARD COUNTY, MARYLAND

DES.:	SCALE	ZONING	G.L.W. FILE No.
DRN.:	1" = 40'	RR-DEC (MXD-?)	90100
CHK.:	DATE	TAX MAP No.	SHEET
	8-11 1997	41/46	7 of 22



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.

*Charles Simmonds*  
Natural Resources Conservation Service  
Date

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

*Robert W. Nichols*  
Howard Soil Conservation District  
Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*W. J. P.*  
Signature of Developer/Builder  
Date

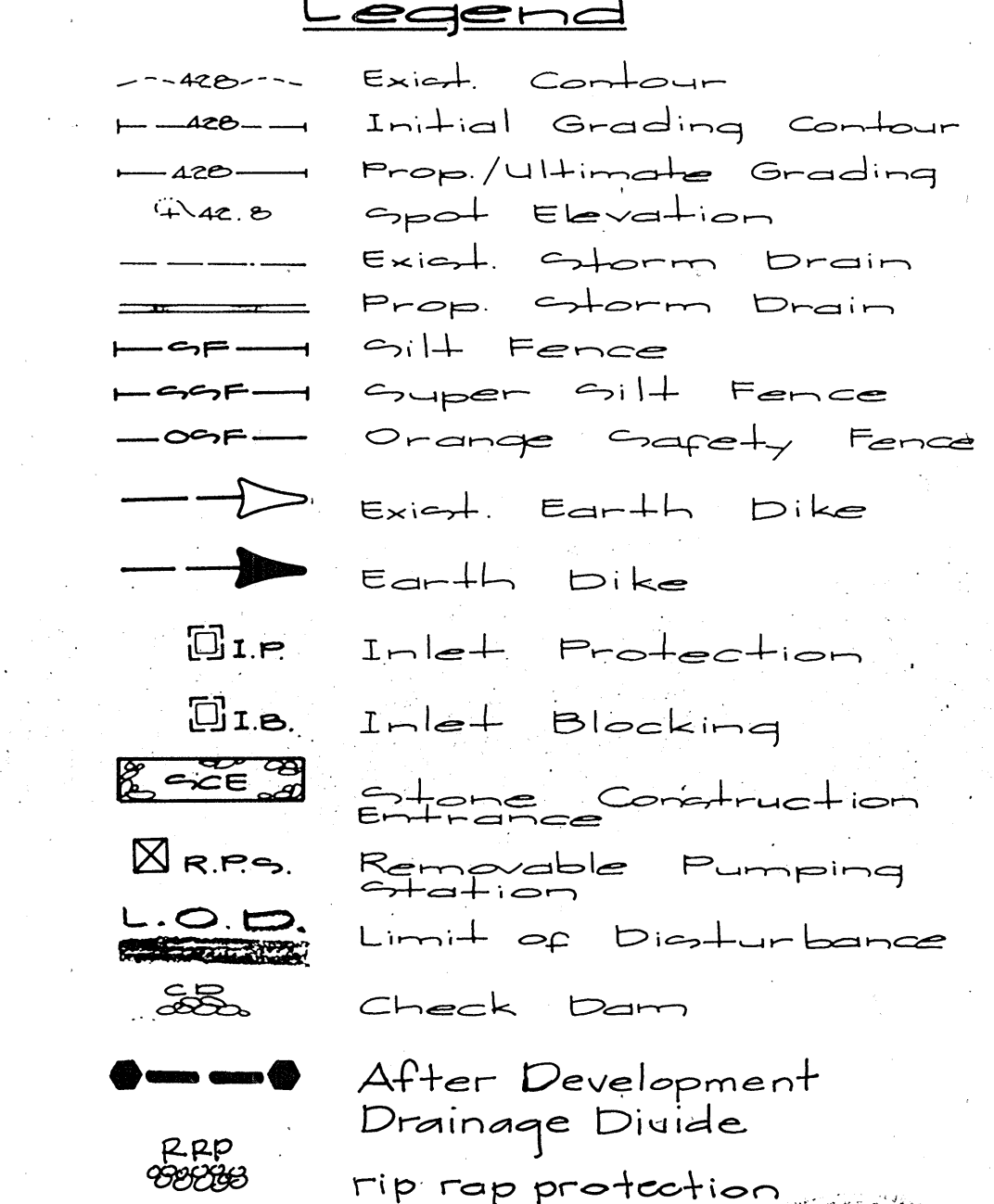
**ENGINEER'S CERTIFICATE**

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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

*OK*  
Date

**SEQUENCE OF CONSTRUCTION FOR ROAD WIDENING AND PATHWAY**

- 1) OBTAIN GRADING PERMIT. (1 DAY)
- 2) NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY 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 AS SHOWN FOR THE ROAD WIDENING AND PATHWAY CONSTRUCTION. (1 WEEK)
- 4) GRADE ROAD WIDENING TO SUBGRADE AND GRADE AREA FOR PATHWAY AND SIDEWALK CONSTRUCTION. (4 WEEKS)
- 5) REMOVE EXISTING INLET TIE AND INSTALL NEW INLET AND STORM DRAIN PIPE. (2 DAYS)
- 6) INSTALL CONCRETE CURB AND GUTTER AND REMOVE EXISTING CURB AND GUTTER AND INSTALL SIDEWALKS. (2 WEEKS)
- 7) INSTALL CRUSHER RUN BASE AND PAVING FOR THE ROAD WIDENING AND PATHWAY. (2 WEEKS)
- 8) FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING (2 WEEKS)
- 9) THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS.
- 10) DURING THE CONSTRUCTION OF THE PATHWAY THE CONTRACTOR SHALL INSTALL SILT FENCE DOWNGRADE OF THE DISTURBED AREA AT THE END OF EACH WORKING DAY.
- 11) NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.



**SEQUENCE OF CONSTRUCTION**

1. Obtain grading permit.
  2. Arrange for an on-site pre-construction meeting with the Sediment Control Inspector.
  3. **PHASE I CONSTRUCTION** (As shown on C-7) (2 weeks)
    - i. Install stone construction entrance, temporary access culvert, and super silt fence in the area of the 90° RCP construction.
    - ii. Install the clean water diversion channels associated with the access route to the western most portion of Phase I construction.
    - iii. Construct the clean water diversion dike along the western most property line.
    - iv. Construct Sediment Trap #1 and the earth dikes draining to it.
    - v. Install the storm diversion channel for the 90° RCP construction as well as the filter bag.
    - vi. Install the 90° RCP from MH to EW, the storm drain from I-9 to MH and the first 452' of 33" RCP out of MH 7. Attach the 33" flexible plastic pipe in order to outfall into stream diversion channel. Block I-8.
    - vii. Begin placing area for athletic fields, over the storm drain and the entrance road on-grade.
    - viii. Install utilities and remainder of storm drain.
    - ix. Install curb and gutter, paving, and sidewalks.
    - x. Stabilize areas not to be paved in accordance with the Permanent Seeding Notes.
  4. **PHASE II CONSTRUCTION** (As shown on C-8 and C-9) (2 weeks)
    - i. Construct the remainder of the clean water dike/earth dike along the western most property line providing the treatments required on either side of the dike.
    - ii. Construct Sediment Trap #2 and the earth dike draining to it, from the east.
    - iii. Relocate the super silt fence from the culvert construction area to along the Ex. 8's. Install the in-stream stone dike and relocate filter bag.
    - iv. Begin construction of sediment basin/SWM facility embankment and the dike draining to it from the fill operation associated with the entrance road at any time after core is completed. Grade pond bottom per C-8.
    - v. Construct the remainder of the 33" RCP to MH 22 and the storm drain from MH 22 to EW1.
    - vi. Grade site.
    - vii. Install utilities and remainder of storm drain system.
    - viii. Construct building and footbridge.
    - ix. Install curb and gutter, paving and sidewalks.
    - x. Stabilize areas not to be paved in accordance with the Permanent Seeding Notes.
  5. **PHASE III CONSTRUCTION** (As shown on C-9 and C-11) (2 weeks)
    - i. After permission has been granted by the Sediment Control Inspector, relocate the earth dike used to convey water to Sediment Trap #2 from the east during Phase II construction to the location shown in the inset on Sheet C-11 to be used to divert clean water around the Phase III construction area.
    - ii. Install the super silt fence along the northern most property line as shown on Sheet C-9.
    - iii. Remove the clean water dike/earth dike along the western most property line (north of school).
    - iv. Construct Sediment Trap #3 and the earth dikes draining to it.
    - v. Grade site draining to Sediment Trap #3 as shown on Sheet C-11.
    - vi. Backfill Trap #2 and complete slope grading as shown on Sheet C-4.
    - vii. Stabilize disturbed area in accordance with the Permanent Seeding Notes.
  6. **PHASE IV CONSTRUCTION** (2 weeks)
 

The following items can be performed only after permission has been granted by the Sediment Control Inspector:

    - i. Remove earth dike draining to Sediment Trap #1 along the existing stream and earth dikes draining to Sediment Trap #3.
    - ii. Backfill Sediment Traps #1 and #3 as shown on Sheets C-2 and C-4 respectively. Install silt fence at the toe of the sediment trap prior to backfilling.
    - iii. Backfill dike/swale draining to the sediment basin from the south as shown on Sheet C-3.
    - iv. Remove earth dike draining to the sediment basin from the north.
- FINAL CONSTRUCTION ITEMS (4 weeks)**
7. Stabilize any remaining disturbed areas.
  8. Remove any remaining sediment control devices.
  9. Convert sediment basin to Stormwater Management facility as shown on C-3.
  10. Remove temporary brick blocking & low flow modifications shown on C-10. Retrofit existing Stormwater Management facility as shown on C-2. Cut through exist. embankment at 2:1 slope minimum & replace exist. riser & CMP spillway w/ concrete riser & spillway & reconstruct dam per details on C-4. Regrade pond interior per C-2 & plant per landscaped plan.
  11. Install landscaping as shown on sheets C-10 through C-11.

Approved: Howard County Department of Planning & Zoning  
*James S. Smith* 7/29/97  
*Cindy Hammett* 7/29/97  
 Chief, Department of Land Development  
*David D. ...* 8/16/97  
 Chief, Development Engineering Div.



Trap #3 stone/Rip-rap Outlet sediment Trap at 12 Data  
 Before Dev. DA = 2.70 Ac.  
 After Dev. DA = 2.70 Ac.  
 Volume required = 9720 C.F.  
 Volume provided = 9720 C.F.  
 Volume, Wet Storage = 5050 C.F.  
 @ Elev. = 311.00'  
 Volume, Dry Storage = 4664 C.F.  
 @ Elev. = 312.00'  
 Bottom Elev. = 287.00'  
 Top of Dam Elev. = 314.00'  
 Weir crest Elev. = 312.00'  
 Weir channel Depth = 1.0'  
 Weir crest length = 10'  
 Cleanout Elev. = 310.50'



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
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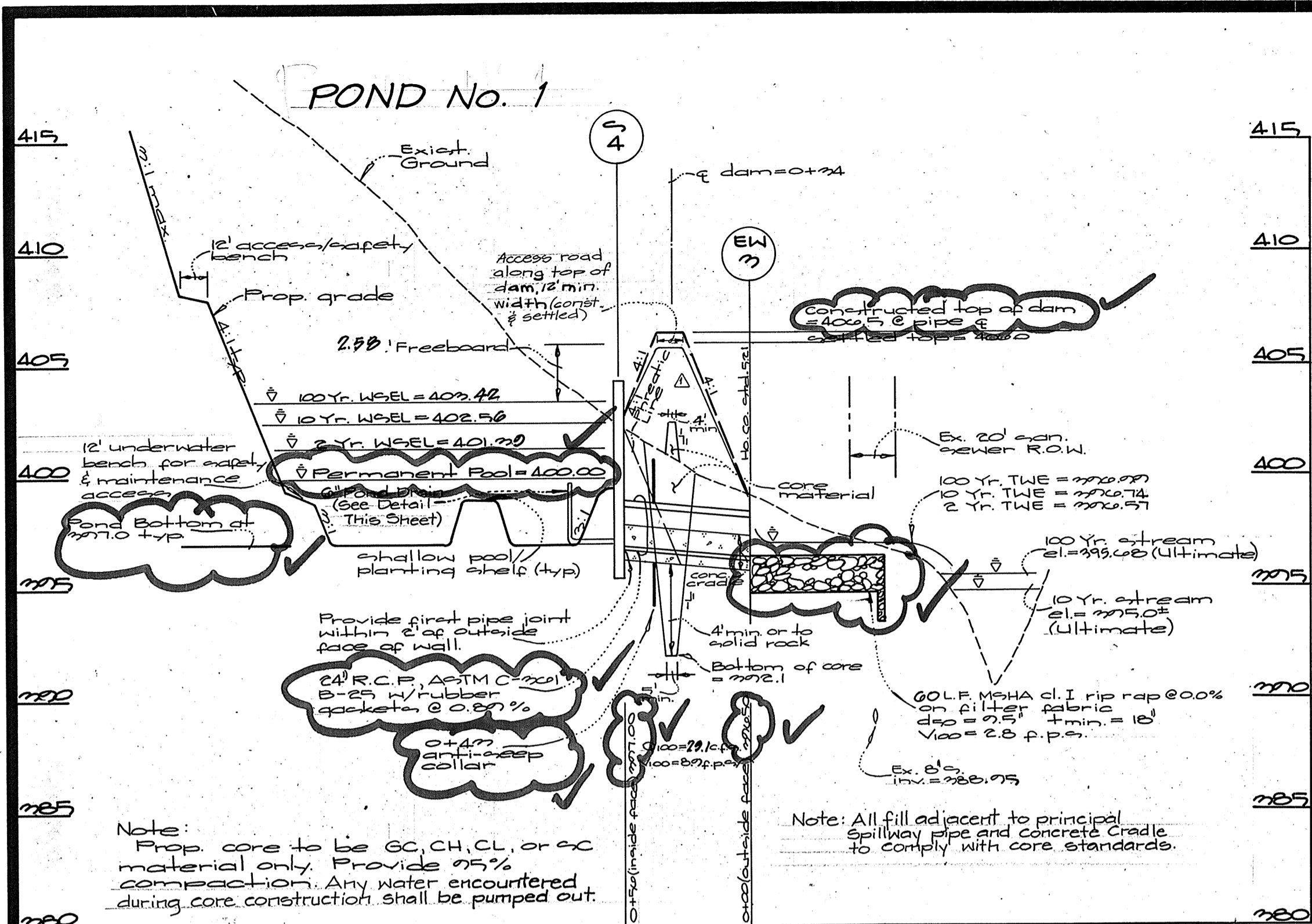
DATE	REVISION	BY	APPR.
7-10-97	Road widening, utility relocation & new asphalt & concrete walk	FGD	
7-10-97	Label Rip-Rap Inflow Protection	402	

PREPARED FOR:  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 10910 MARYLAND ROUTE 108  
 ELICOTT CITY, MARYLAND 21043  
 ATTN: BILL GRAU

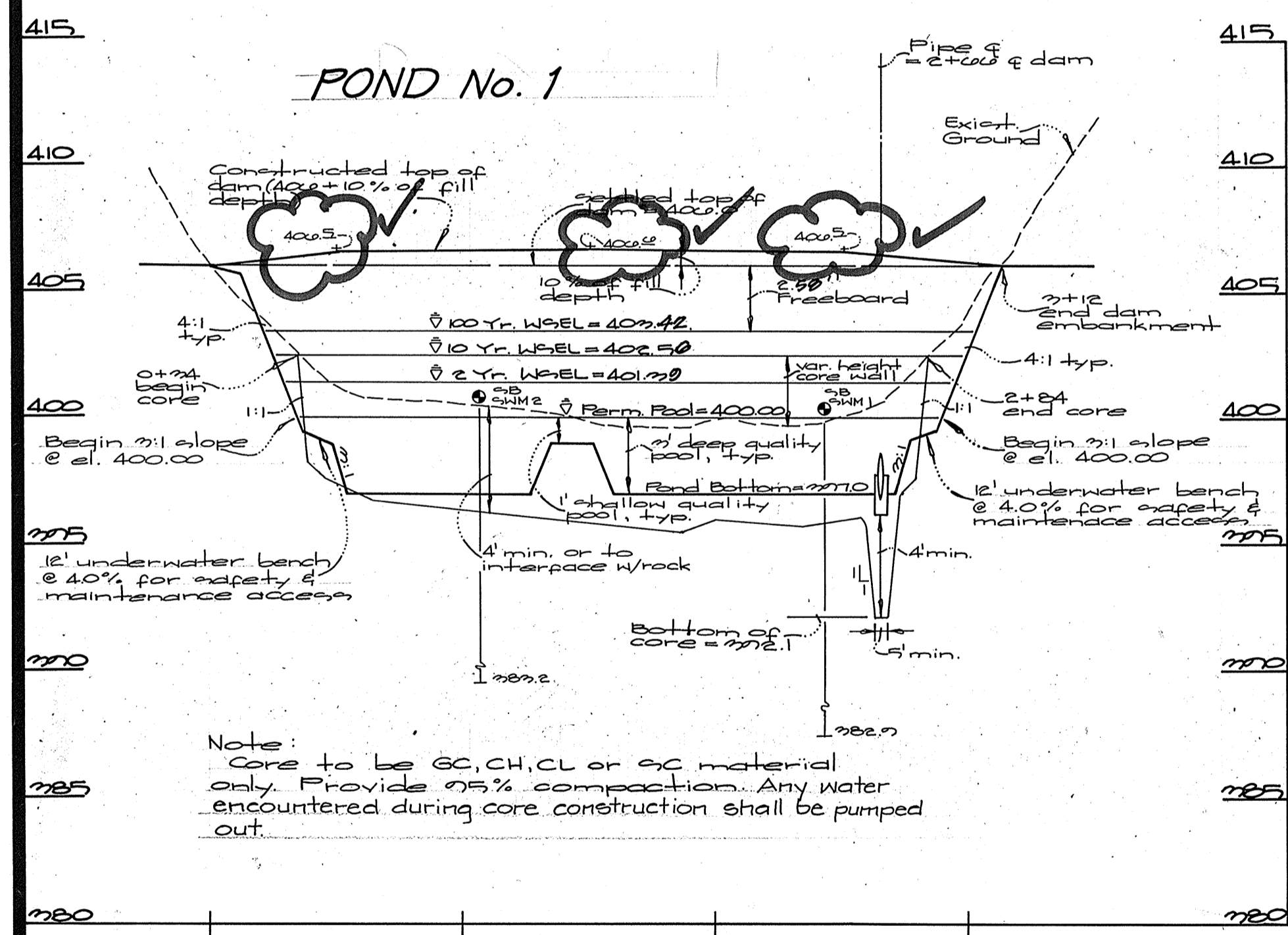
Sediment Control Plan (Phasing Insets)  
**Western Middle School No. 2**  
 PARCEL 115 L-321B F-618  
 Clarksville Election District No. 5  
 Howard County, Maryland

DES. DEY	SCALE	ZONING	G.L.W. FILE NO.
enb	1" = 40'	EE-DCO (17XD-3)	96100
DRN.	DATE	TAX MAP NO.	SHEET
enb	8-11 1997	41/4G	11 of 22
CHK.	DATE	TAX MAP NO.	SHEET

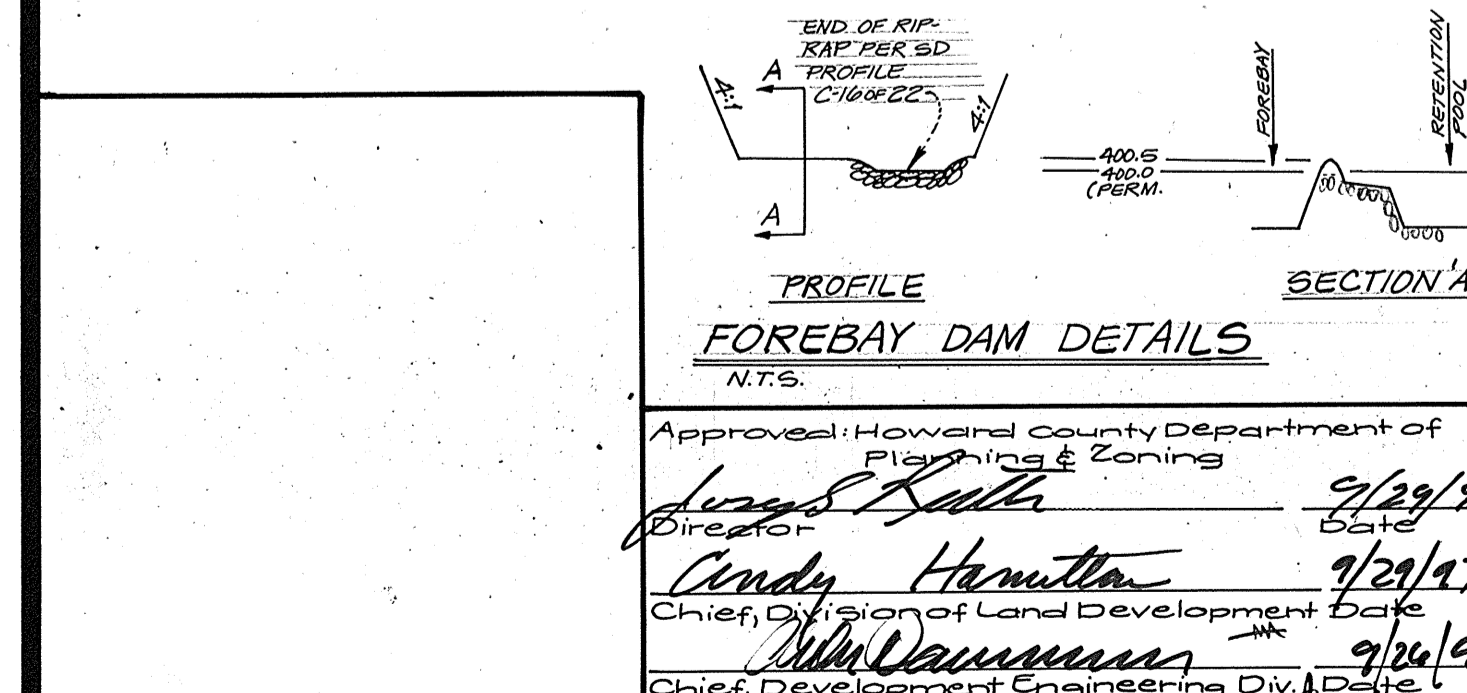




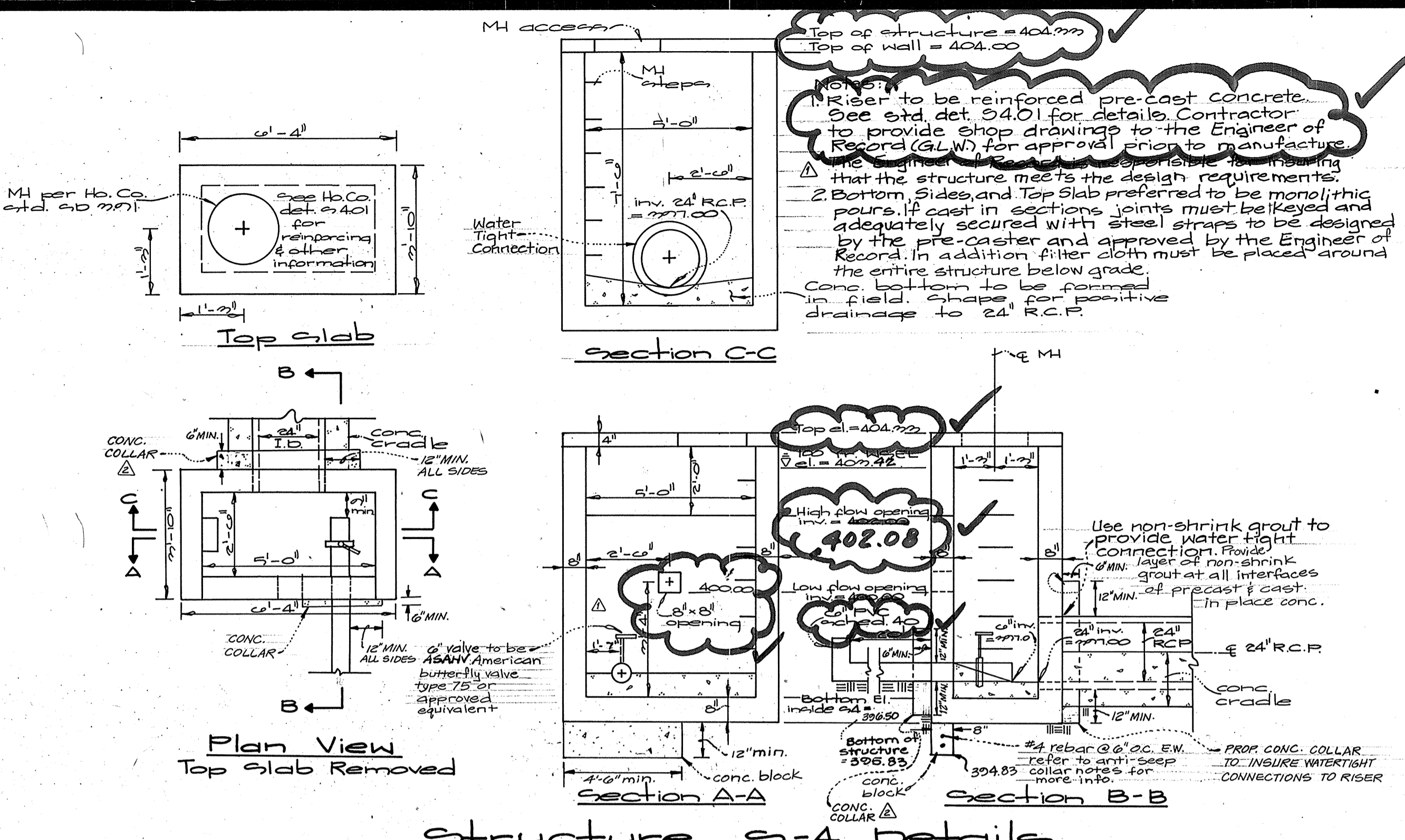
Principal Spillway Profile  
horz.: 1" = 50' vert.: 1" = 5'



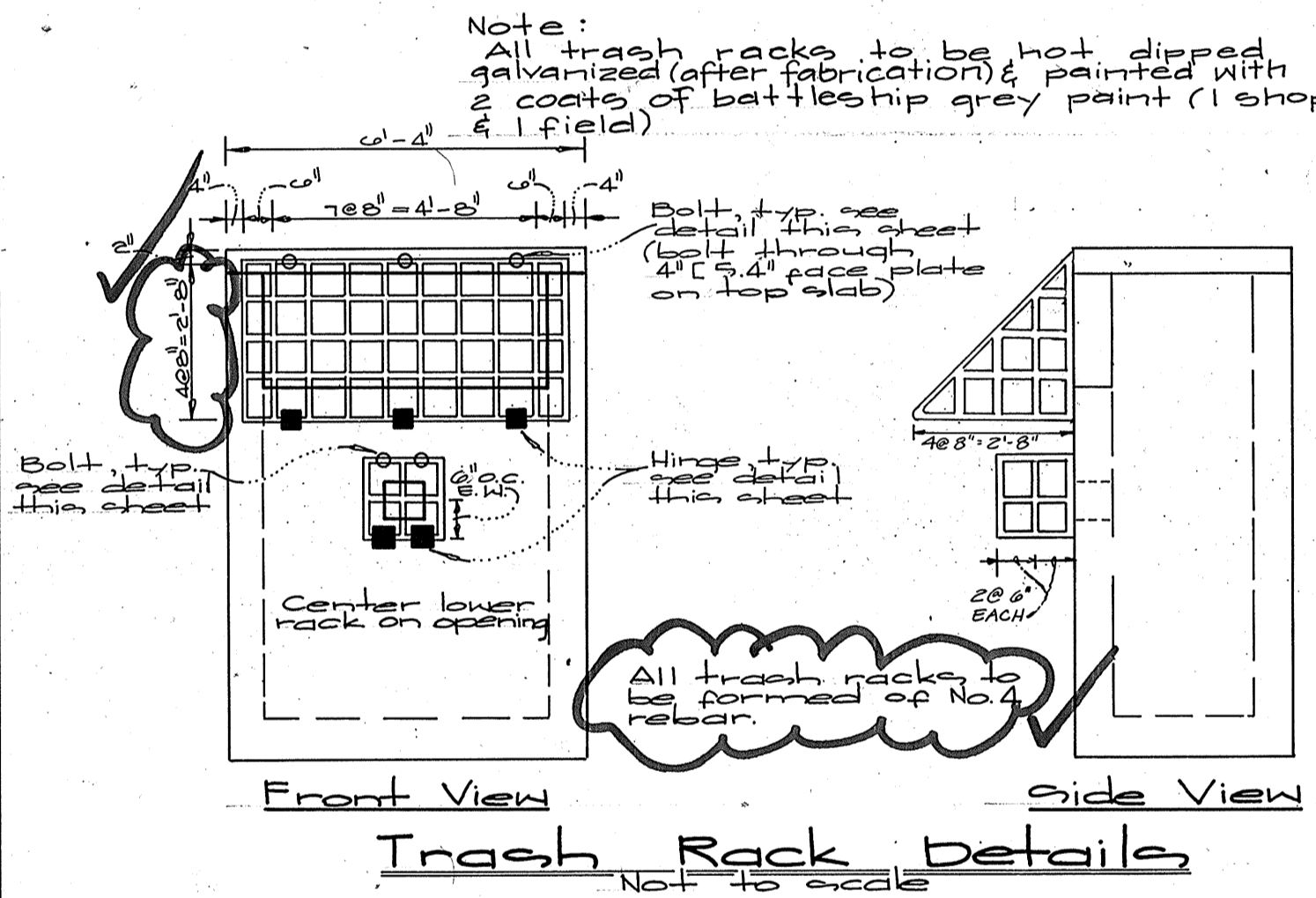
Dam Embankment  
horz.: 1" = 50' vert.: 1" = 5'



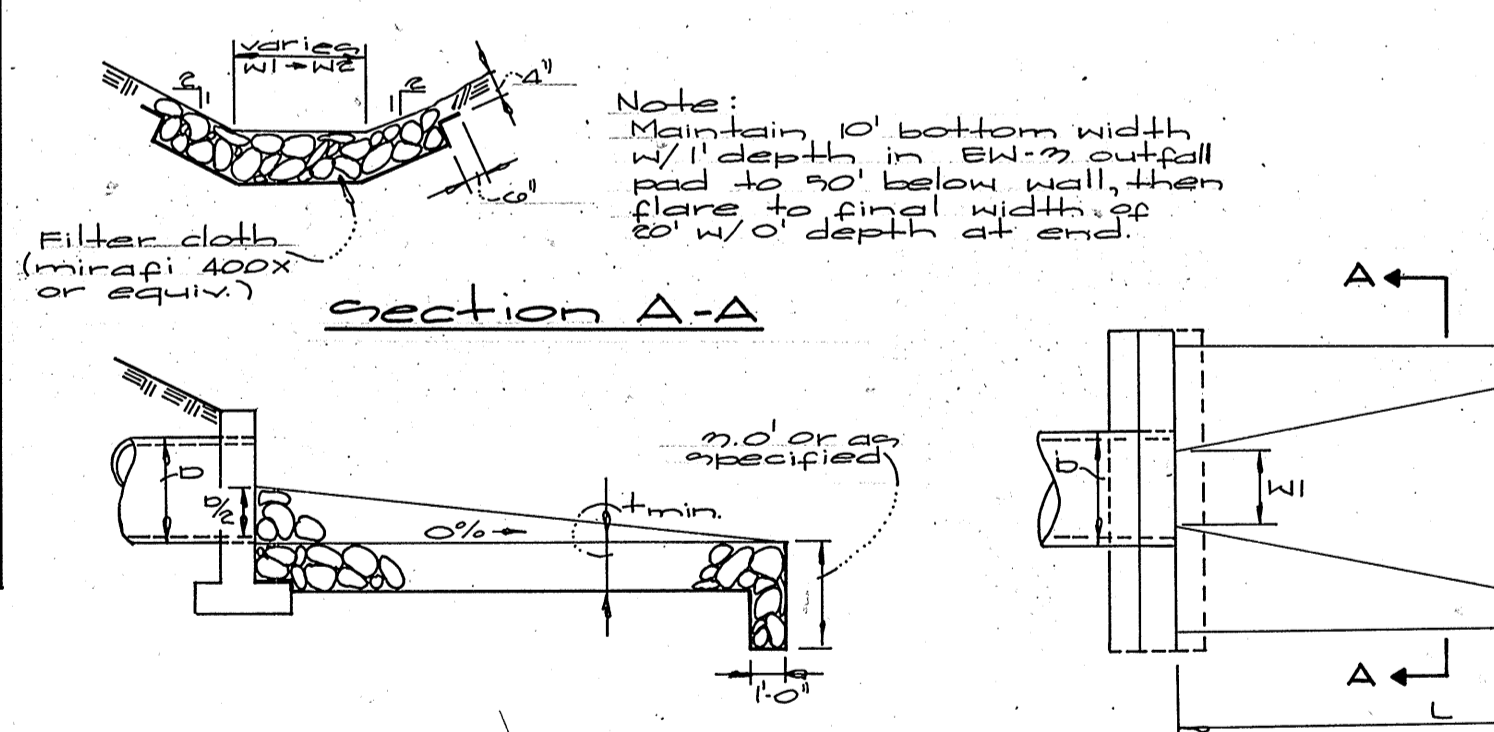
Approval: Howard County Department of Planning & Zoning  
Director: [Signature] 9/23/97  
Chief, Regional Land Development: [Signature] 9/29/97  
Chief, Development Engineering Div.: [Signature] 9/24/97



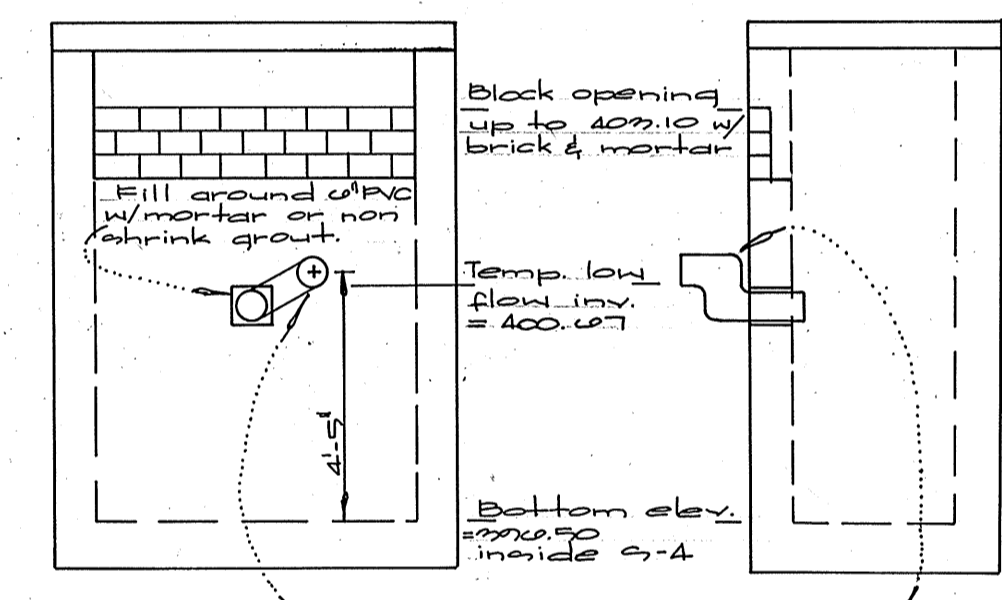
Structure S-4 Details  
Not to scale



Trash Rack Details  
Not to scale



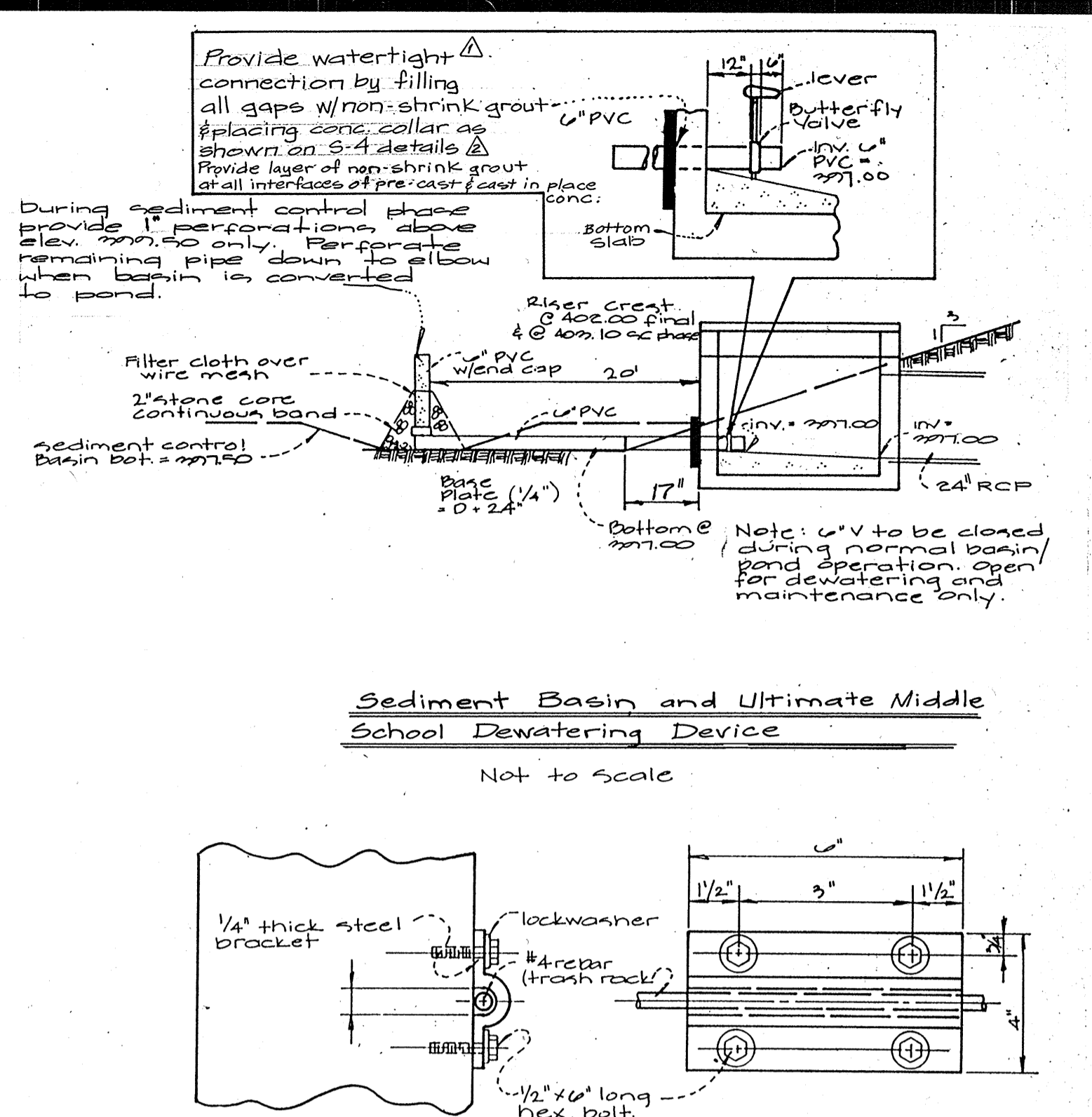
Outfall Details for EW-7 & EW-5  
Not to scale



Modifications to S-4 for Sediment Control Phase

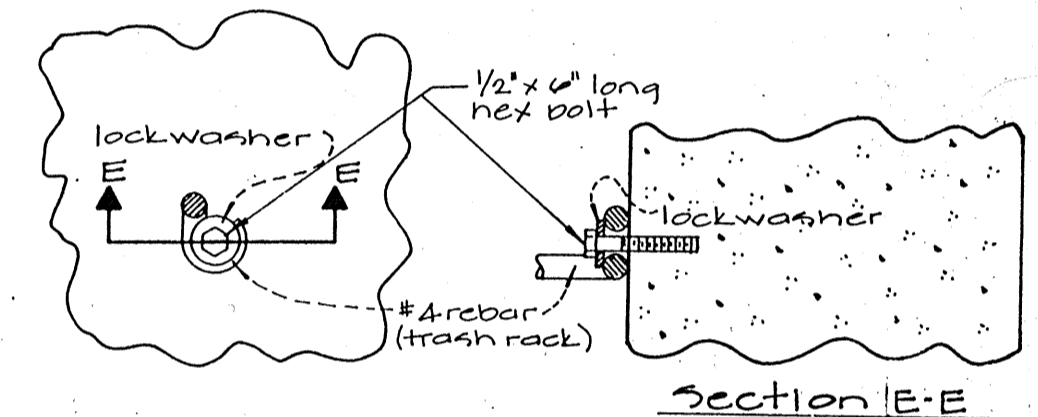
str.	B	L	W1	W2	Tmin	D50	MSHA CLASS
EW 7	24'	70'	2.0'	20'	10"	0.5"	I
EW 5	15'	40'	1.25'	12'	10"	0.5"	I

AS-BUILT DOCUMENT FOR PONDS  
THIS AS-BUILT DOCUMENT IS ACCURATE AND COMPLETE, AND THE POND CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS.

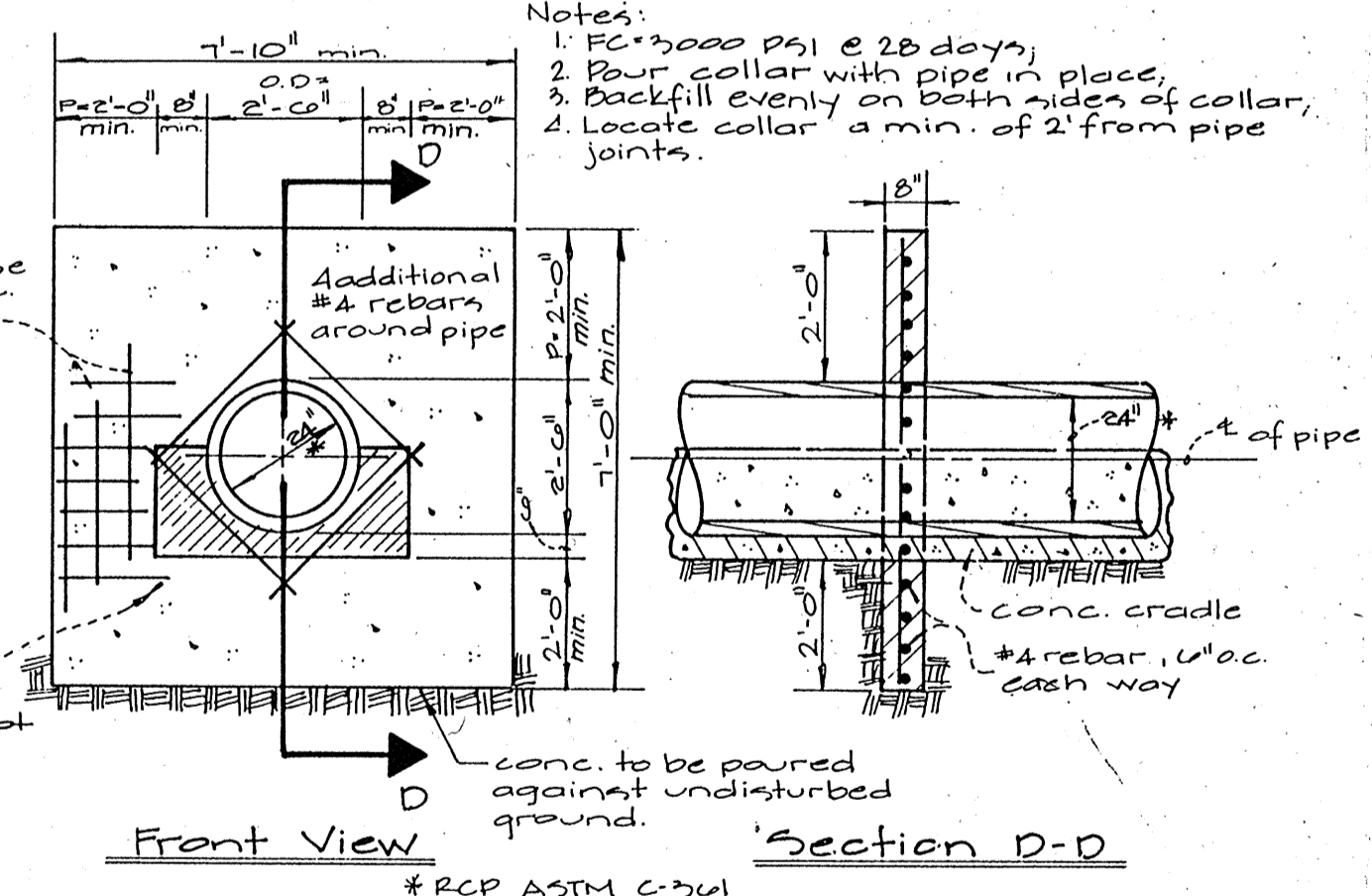


Sediment Basin and Ultimate Middle School Dewatering Device  
Not to scale

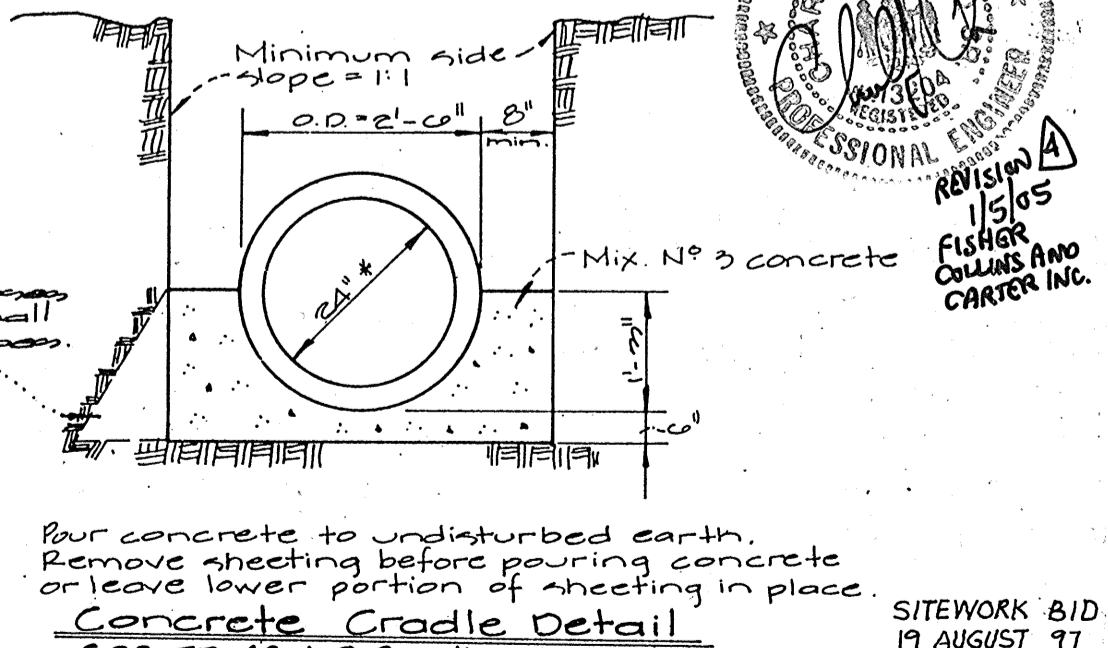
Trash Rack Hinge Detail  
Not to scale



Trash Rack Bolt Detail  
Not to scale



Anti-Seep Collar Detail  
Not to scale



Concrete Cradle Detail  
Not to scale

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE • SUITE 250 • BURTONSVILLE OFFICE PARK • BURTONSVILLE, MD. 20886  
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APPR.
1-5-05	Road widening, utility relocation & non depth & concrete walks	FGG	
10-25-97	ADDED CONC. COLLAR TO STRUCTURE S-4		
2-12-97	ADD NOTES FOR STR. S-4 DETAIL, REV. TRASH RACKS, CORE WALL THICKNESS, ADDED DETAIL TO ANTI-SEEP DEWATERING PIPE & RIP RAP SCHEDULE, WROTE DEWATERING PIPE LOC. & ADDED CONC. FOOTER BELOW RISER THIS LOCATION	HC	

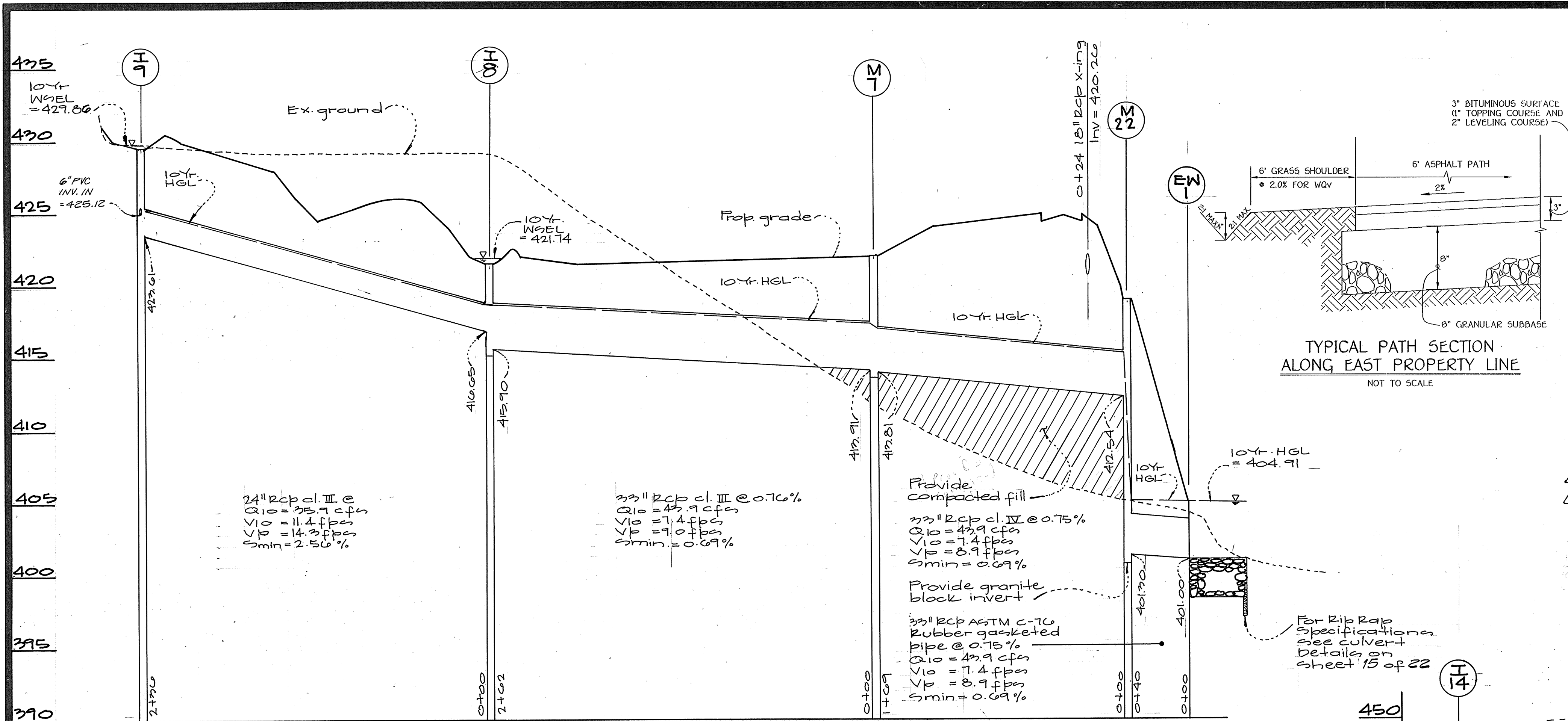
PREPARED FOR: Howard County Board of Education  
10310 Route 108  
Ellicott City, Maryland 21043  
Attn: Bill Gray

**Western Middle School No. 2**  
Parcel 115  
Clarksville Election District No. 5 L-2218 R018 - Howard County, Maryland

DES: ecc  
SCALE: As shown  
DRN: klp  
CHK: 8-11-97

ZONING: RES-DEO (17X0-3)  
TAX MAP No.: 41/4G  
SHEET: 13 of 22

SITINGWORK 81D  
19 AUGUST 97



### Structure Schedule

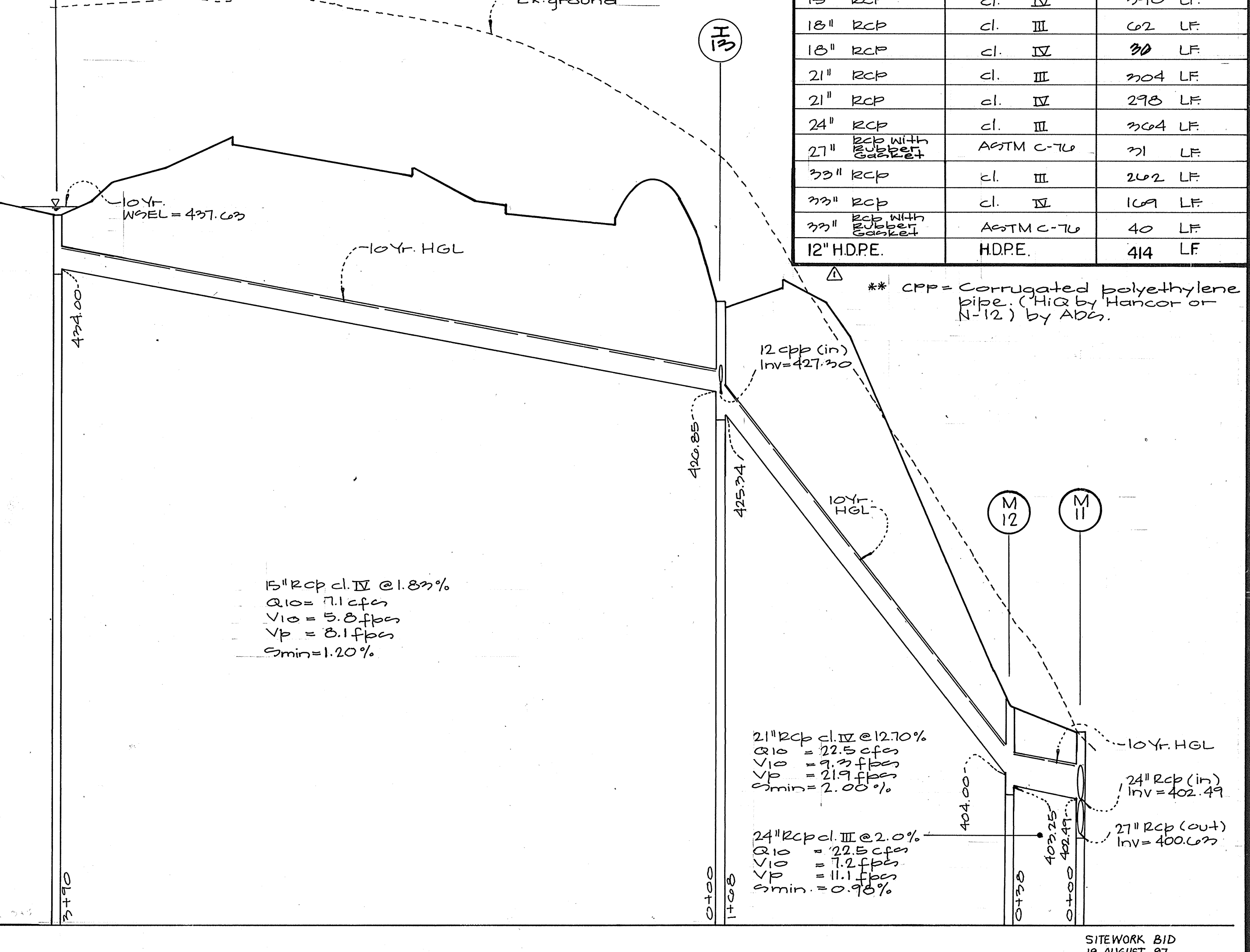
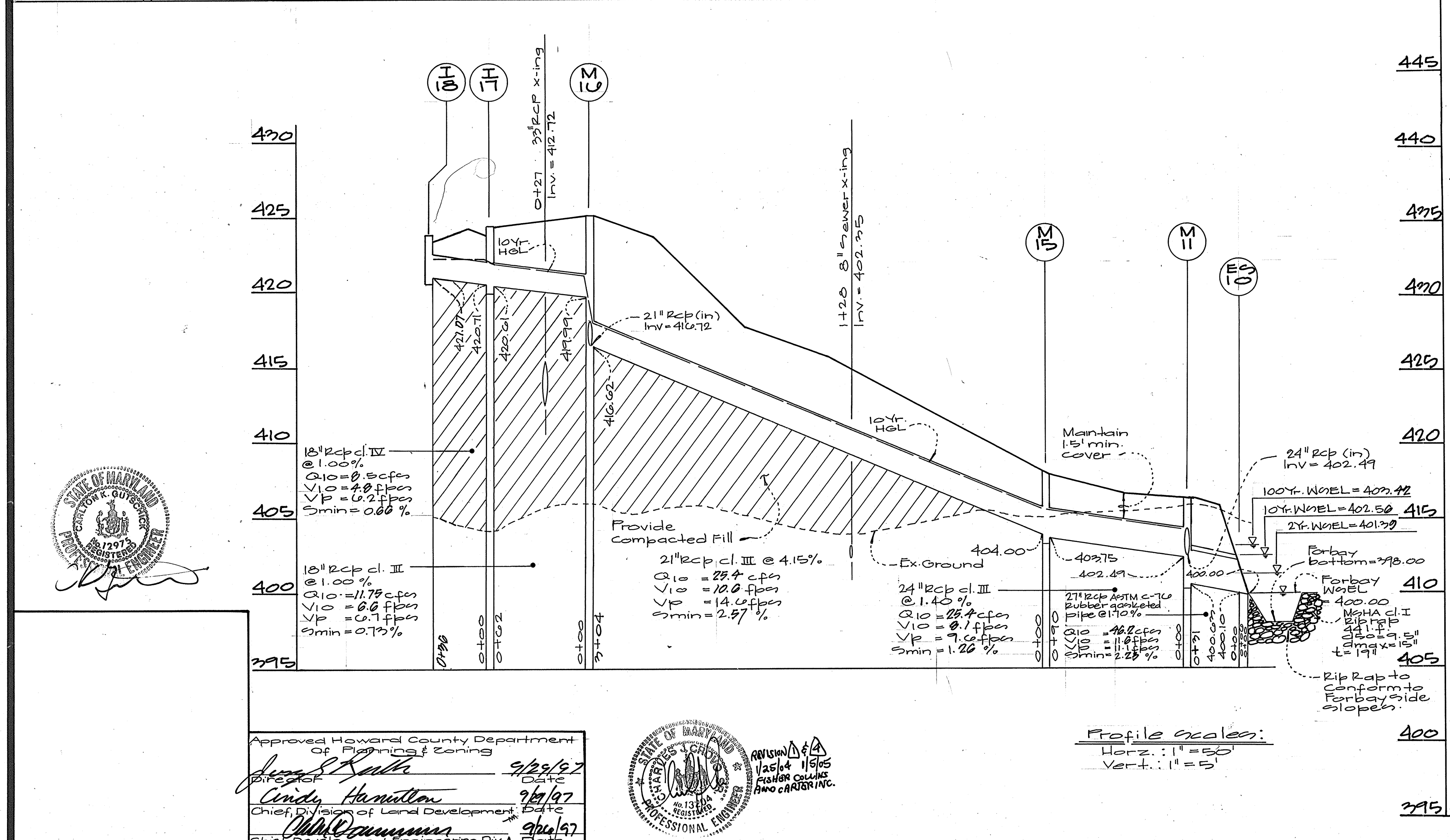
No	Type	Width (inside)	Elevation Upper	Elevation Lower	Investment Upper	Investment Lower	Std. Detail	Locations *	Remark
I8	Modified Type 3 Inlet	4'-0"	421.50	-	416.65	415.90	See Sheet 17a/22	See Plan	Provide Reticular Grate per Ho. Co. Std. 4.92
I7	Modified Type 3 Inlet	2'-0"	429.50	-	426.12	423.61	See Sheet 17a/22	See Plan	Provide Reticular Grate per Ho. Co. Std. 4.93
I13	Cor-15 Inlet	6'-0"	432.1	-	427.30	425.34	Std. 19+80 12" (L)	Entrance Road	See pipe angle detail on sheet 17
I14	Type 3 Inlet	2'-7 1/2"	431.3	-	434.00	-	Ho. Co. SD. 4.22	See Plan	Provide Reticular Grate per Ho. Co. Std. 4.92
I17	A10 Inlet	2'-0"	424.7	-	420.71	420.61	Ho. Co. SD. 4.02	See Plan	See pipe angle detail on sheet 17
I18	A10 Inlet	2'-0"	424.34	-	425.95	-	Ho. Co. SD. 4.02	See Plan	See pipe angle detail on sheet 17
I19	Cor-15 Inlet	4'-0"	423.5	-	418.77	418.02	Std. 19+80 12" (L)	Entrance Road	Provide Reticular Grate per Ho. Co. Std. 4.92
I19A	S INLET	2'-6"	427.0	-	424.0	-	Ho. Co. SD. 4.37	SEE PLAN	Provide Reticular Grate per Ho. Co. Std. 4.93
M7	Std. Manhole	5'-0"	422.0	-	419.91	419.81	Ho. Co. G. 5.13	See Plan	
M11	Std. Manhole	5'-0"	406.5	-	402.49	400.63	Ho. Co. G. 5.13	See Plan	
M12	Shallow Manhole	4'-0"	408.0	-	404.00	403.25	Ho. Co. G. 5.05	See Plan	
M15	Shallow Manhole	4'-0"	408.0	-	404.00	403.75	Ho. Co. G. 5.05	See Plan	
M16	Std. Manhole	4'-0"	425.5	-	419.99	418.62	Ho. Co. G. 5.12	See Plan	Entrance Road Std. 14+23.50 15.5 (R)
M20	"	4'-0"	429.3	-	-	422.48	Ho. Co. G. 5.12	See Plan	Plumbing Contractor is responsible for providing upper invert.
M21	"	4'-0"	443.2	-	-	435.31	Ho. Co. G. 5.12	See Plan	Plumbing Contractor is responsible for providing upper invert.
M22	"	5'-0"	419.0	-	412.54	401.30	Ho. Co. G. 5.13	See Plan	
M19	Yard Inlet	2'-0"	427.80	-	423.43	423.18	Ho. Co. SD. 4.14	SEE PLAN	
M19B	Yard Inlet	2'-0"	426.90	-	422.18	421.93	Ho. Co. SD. 4.14	SEE PLAN	
E23	End of Pipe	-	-	-	-	418.20	-	Entrance Road Sta. 12+45 22" (Radial)	Provide Brick Bulkhead @ End of Pipe. Provide marker
E24	End of Pipe	-	-	-	-	417.40	-	Entrance Road Sta. 12+30 19" L (Radial)	Provide Brick Bulkhead @ End of Pipe. Provide marker
ES10	27" Concrete End Section	4'-0"	402.59	-	400.10	400.00	Ho. Co. SD. 5.32	See Plan	

\* Note: All Locations are to centerline of structures, unless noted otherwise. For E23 & E24 Locations are to centerline @ end of pipe. All manhole covers are to be lockable.

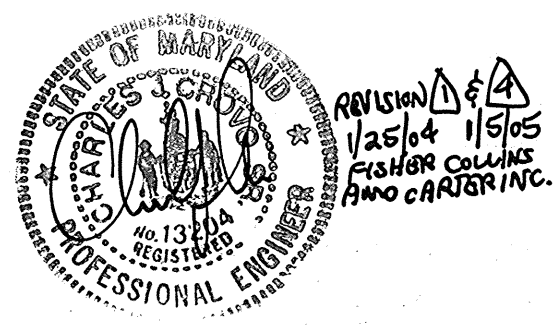
### Pipe Schedule

Type & Size	Class	Quantity
6" PVC	schedule 40	300 LF
12" CPP **	-	500 LF
15" RCP	cl. IV	390 LF
18" RCP	cl. III	62 LF
18" RCP	cl. IV	30 LF
21" RCP	cl. III	304 LF
21" RCP	cl. IV	298 LF
24" RCP	cl. III	304 LF
27" RCP with subbase	ASTM C-76	31 LF
33" RCP	cl. III	202 LF
33" RCP	cl. IV	109 LF
33" RCP with subbase	ASTM C-76	40 LF
12" HDPE	HDPE	414 LF

\*\* CPP = Corrugated polyethylene pipe. (H/C by Hancor or N-12) by ADS.



Approved Howard County Department of Planning & Zoning  
 Date: 9/29/97  
 Chief, Division of Land Development: Date: 9/29/97  
 Chief, Development Engineering Div.: Date: 9/29/97

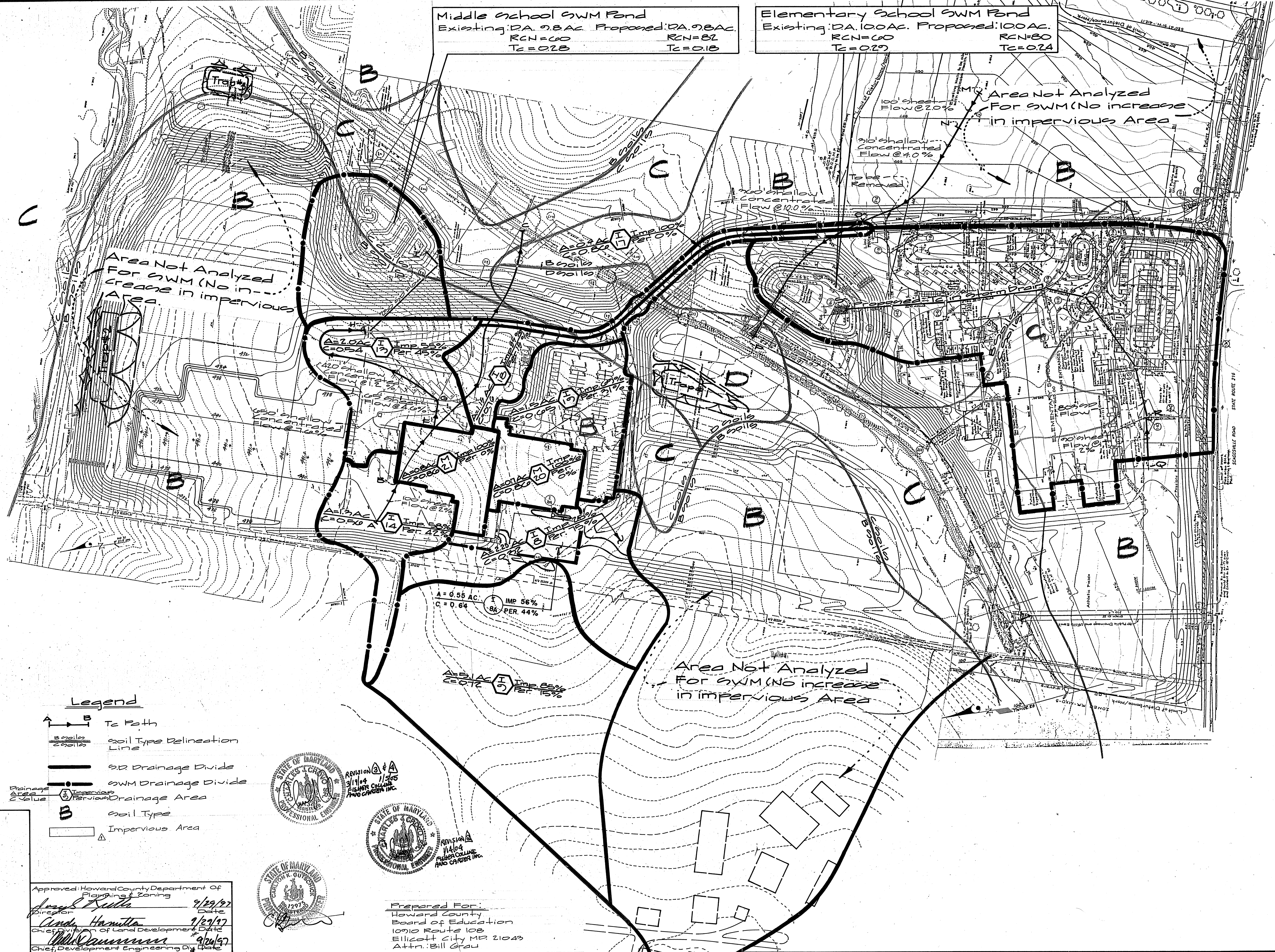


Profiles scaled:  
 Horiz.: 1" = 50'  
 Vert.: 1" = 5'

<b>G.W. GUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866 TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186	PREPARED FOR: Howard County Board of Education 10910 Route 100 Ellicott City, Maryland 21043 Attn: Bill Grau	DES.: P202L. SCALE: AS SHOWN ZONING: EE-DEO (MXD-3) G.L.W. FILE NO.: 96100
	PROJECT: Road widening, utility relocation & new asphalt & concrete walks DATE: 1-25-04 REVISION: Add New S Inlet, Yard Inlet to the Structure Schedule BY: F.G.C. D.K.T. APPR.:	Storm Drain Profiles and Schedule <b>Western Middle School No. 2</b> Parcel 11B L. 2218 F. 618 Clarksville Election District No. 5 Howard County, Maryland

Middle School SWM Pond  
 Existing: DA 9.8 AC Proposed: DA 9.8 AC  
 RCN=60 RCN=82  
 Tc=0.28 Tc=0.18

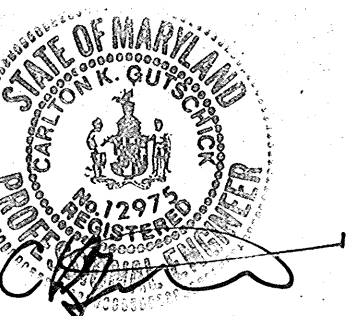
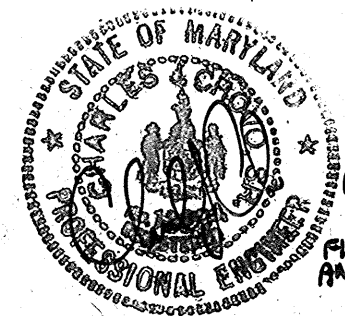
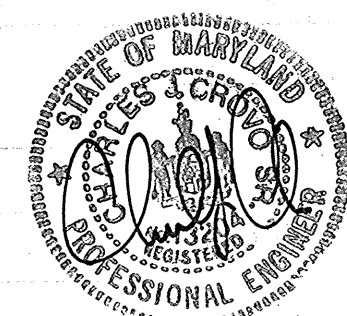
Elementary School SWM Pond  
 Existing: DA 100 AC Proposed: 100 AC  
 RCN=60 RCN=80  
 Tc=0.29 Tc=0.24



**Legend**

- Tc Path
- Soil Type Delineation Line
- SD Drainage Divide
- SWM Drainage Divide
- Impervious Drainage Area
- Soil Type
- Impervious Area

Approved: Howard County Department of Planning & Zoning  
 Director: *[Signature]* 9/29/97  
 Chief, Division of Land Development: *[Signature]* 9/29/97  
 Chief, Development Engineering Div: *[Signature]* 9/29/97



Prepared For:  
 Howard County Board of Education  
 10910 Route 108  
 Ellicott City MD 21043  
 Attn: Bill Grau

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866

DATE	REVISION	BY	APPR.
1-5-05	Road widening, utility relocation & new asphalt & concrete walks	FCC	
3-19-04	Install New Address, Relocate Paved Play Area & Install New Storm Drain	J.G.L.	
1-14-04	Added building pad grading for proposed school	B.V.C.	
9-11-97	ADDED SHADING TO INDICATE IMPERVIOUS AREA	H.V.	

Storm Drain and Stormwater Management Drainage Area Map  
**Western Middle School No. 2**  
 Parcel 115  
 L2218 F.018  
 Clarksville Election District No. 9  
 Howard County, Maryland

DES.	SCALE	ZONING	G.L.W. FILE NO.
BWL/ACC	1"=100'	EE-DCO (MXD-3)	96100
DRN.	DATE	TAX MAP No.	SHEET
WJL	8-11-1997	41/46	18 OF 22
CHK.			

SITWORK BID  
 19 AUGUST 97