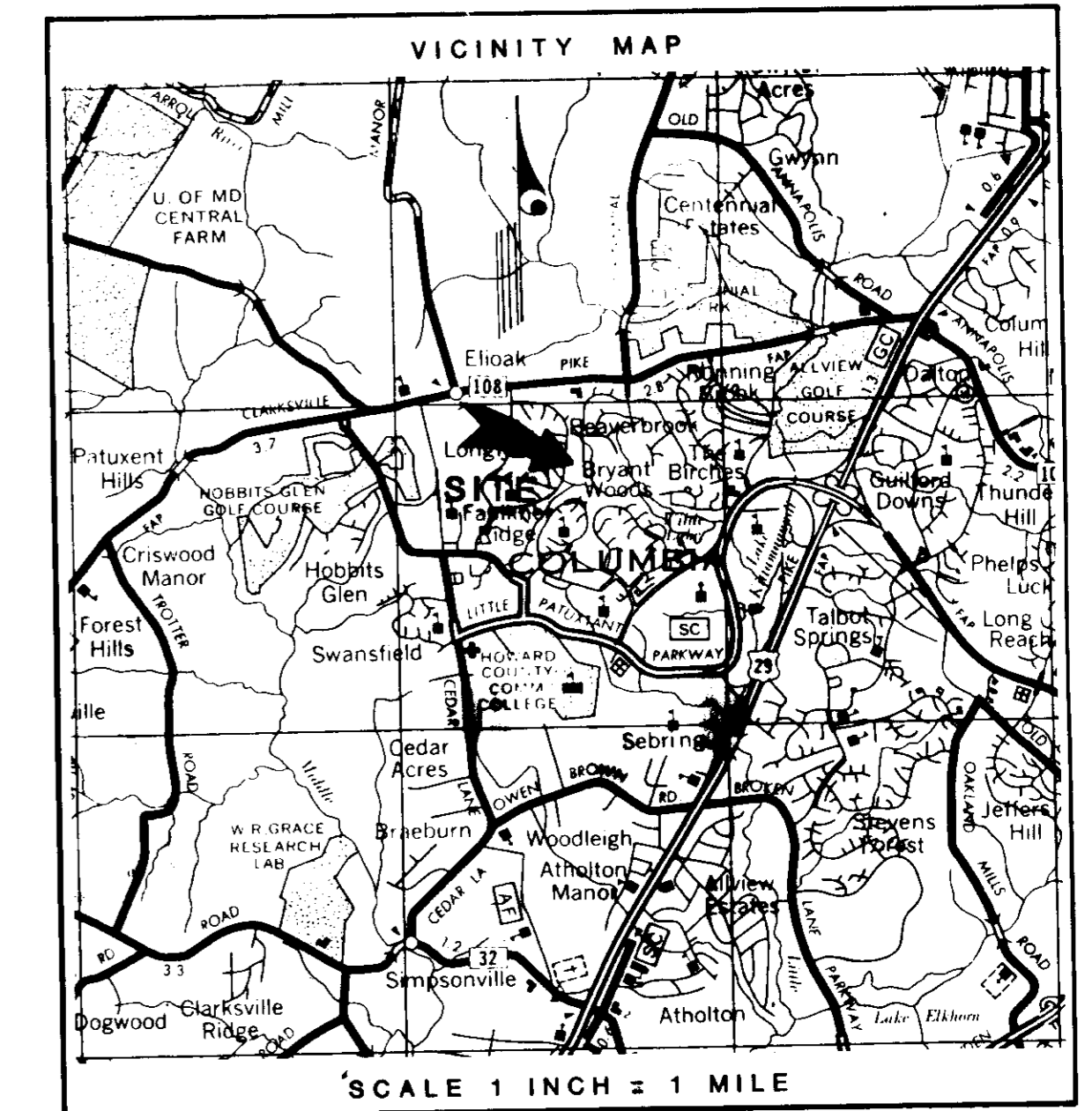
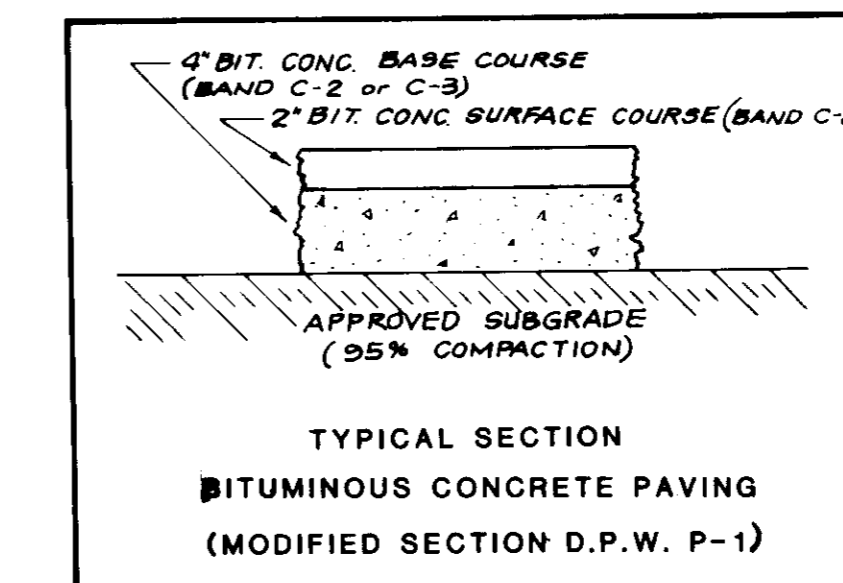
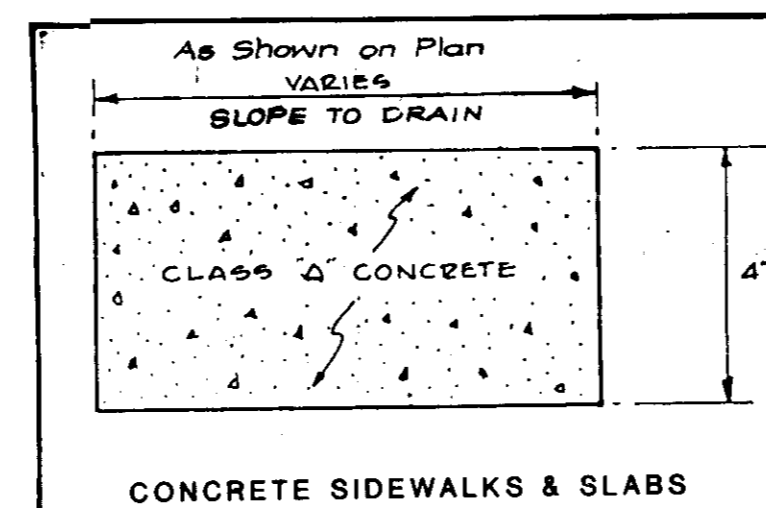
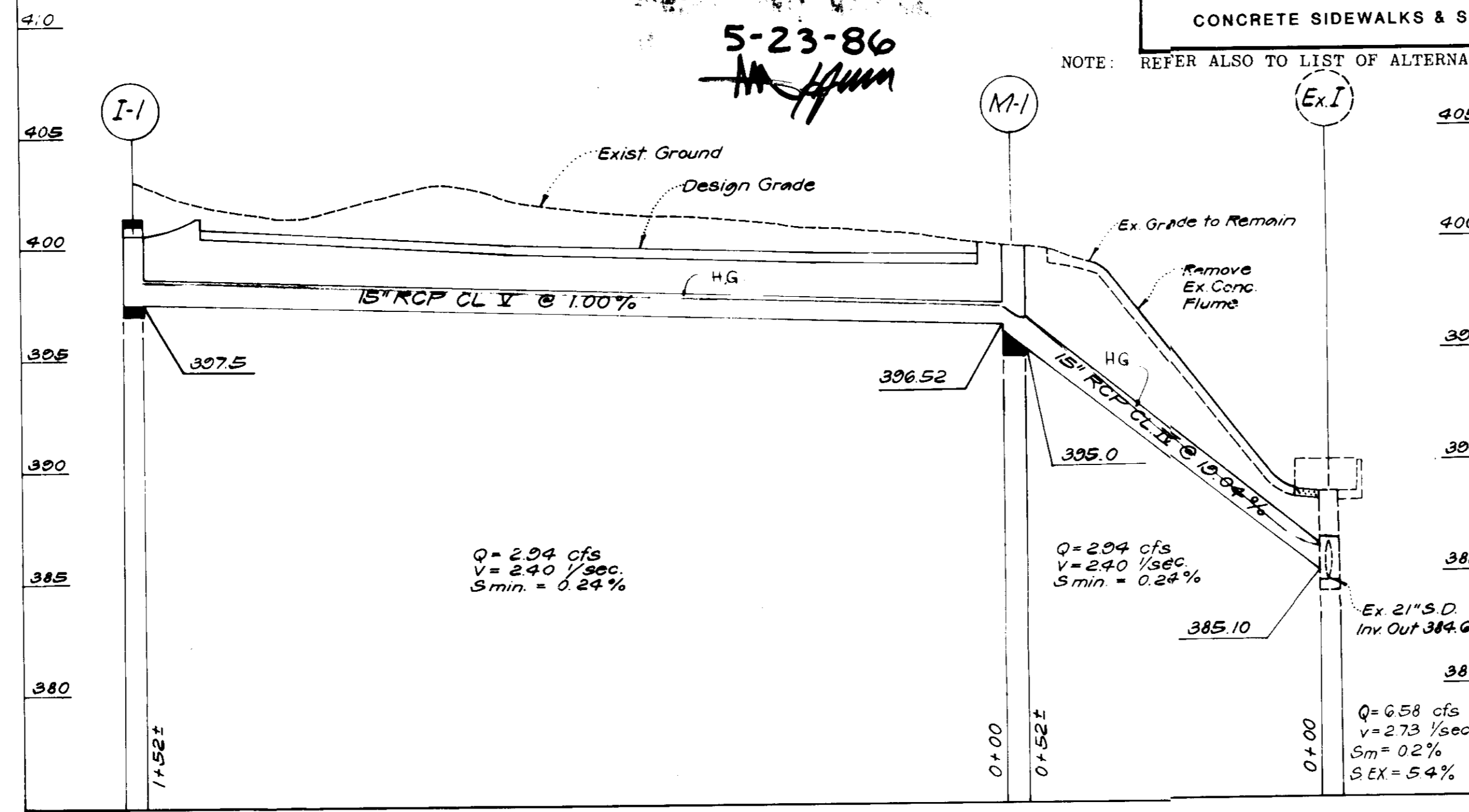
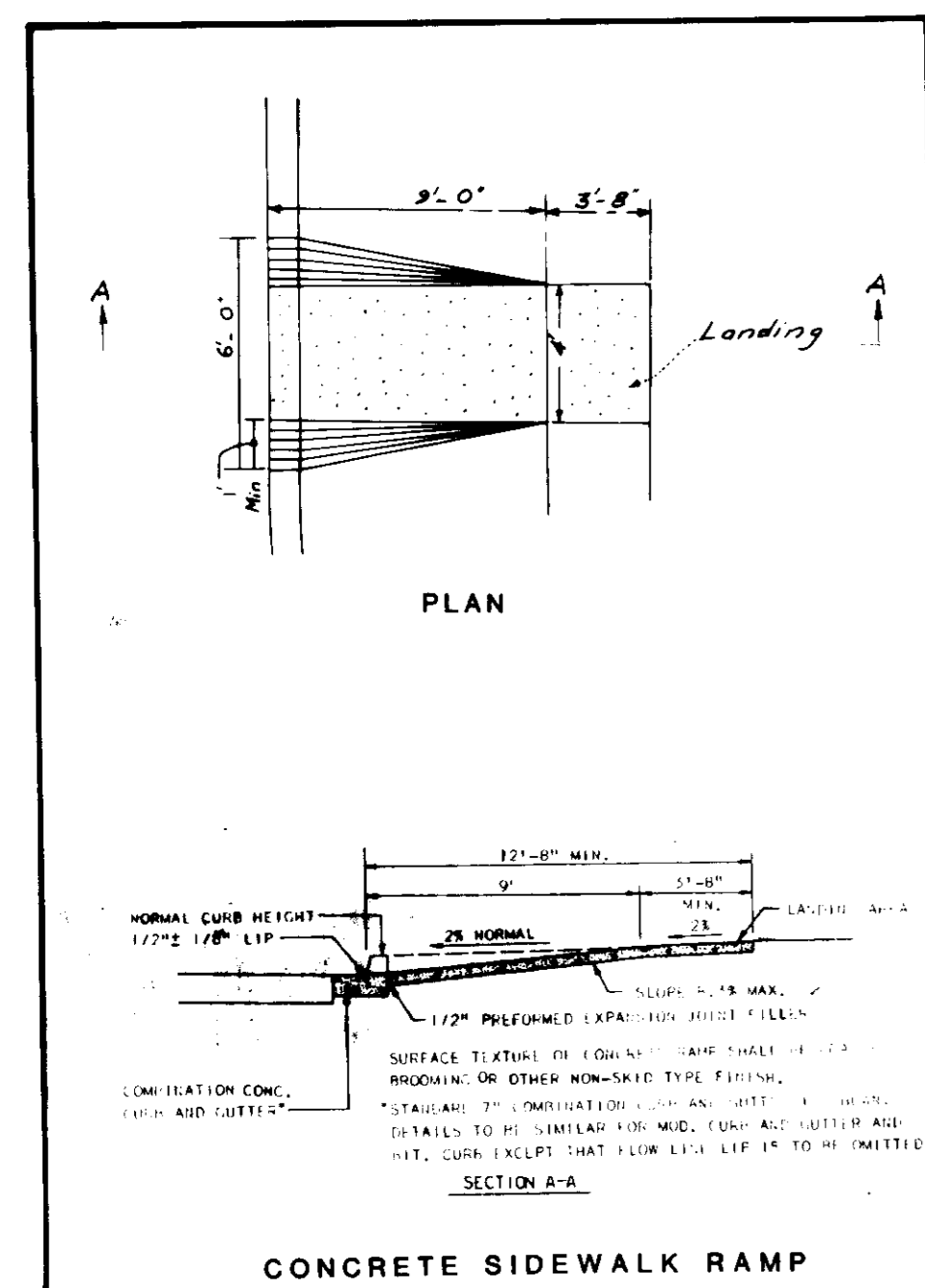


NOTE: REFER ALSO TO LIST OF ALTERNATES, ALTERNATE #1.



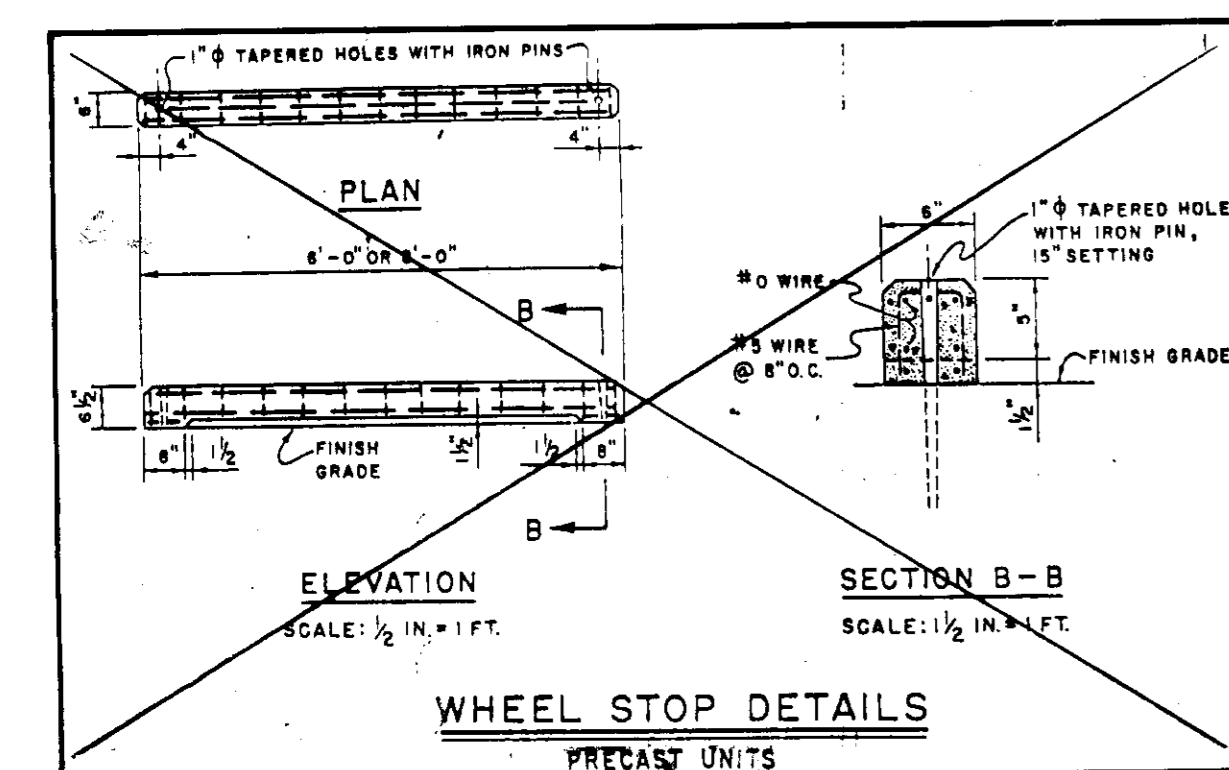
TOTAL AREA OF SITE-9.25 ACRES



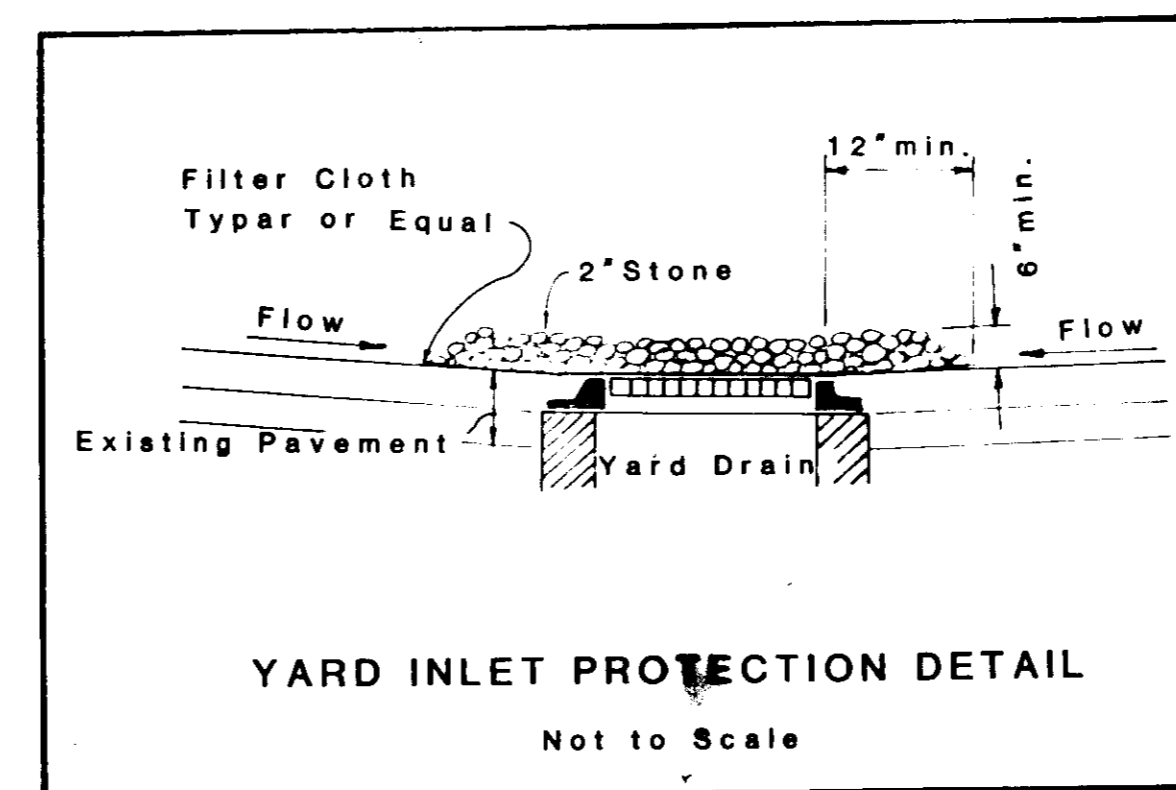
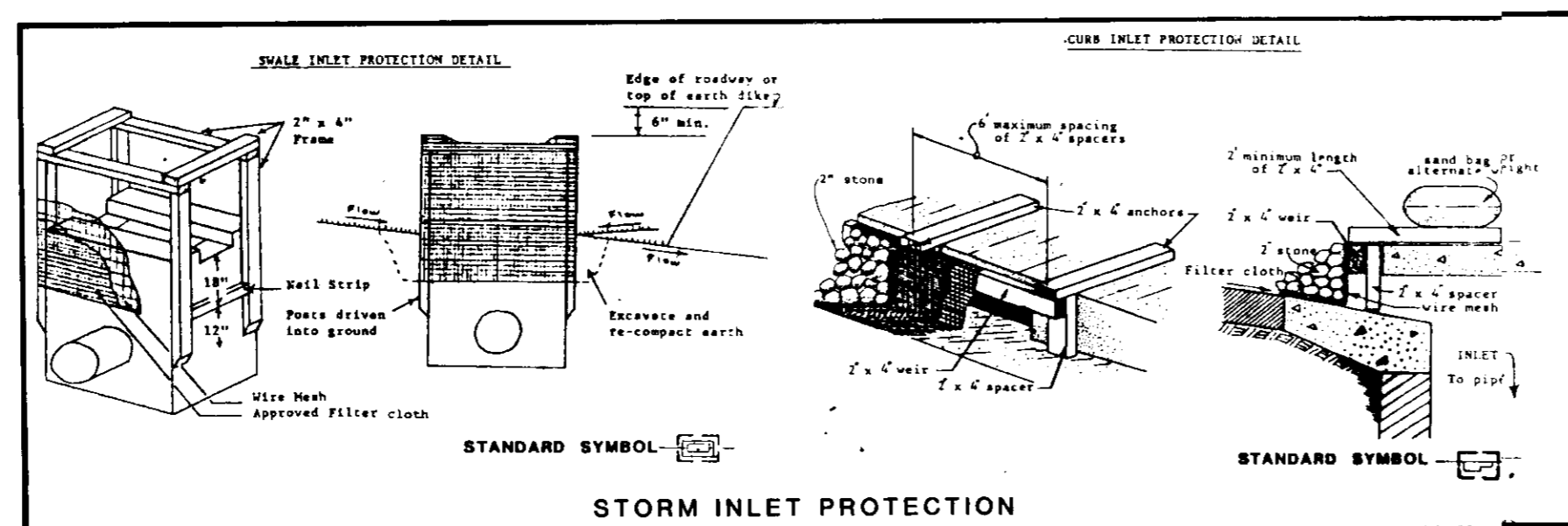
STRUCTURE TABLE			
NO.	TYPE	TOP ELEV.	REMARKS
EX1	EXISTING INLET	388.60	REMOVE EXIST. FLUME. CONNECT NEW PIPE AND REPAIR STRUCTURE AS NECESSARY INCL. WALLS
M-1	SHALLOW MANHOLE	400.00	HOWARD COUNTY DPW STD. DETAIL G-5.05
I-1	D INLET	LIP ELEV. 400.50	HOWARD COUNTY DPW STD. DETAIL SD4.11

- GENERAL NOTES:
- EXISTING CONDITIONS ARE BASED ON SURVEY DATED MAY 30, 1985 AND PREPARED BY ASSOCIATED ENGINEERS, INC. BENCHMARK USED: ENTRANCE OF GROUND FLOOR OF BRIANI WOODS ELEMENTARY SCHOOL BUILDING, ELEVATION 405.0.
 - ALL DISTURBED UNPAVED AREA SHALL BE TOPSOILED, FERTILIZED, LIMED AND SEED, EXCEPT AREAS TO BE PLANTED AND AREAS TO BE SODDED. TOPSOIL DEPTH SHALL BE MINIMUM 4 INCHES COMPACTED.
 - ALL SEDIMENT AND EROSION CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPED AREAS," 1983 EDITION.
 - ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS AND THE APPLICABLE PROVISIONS OF THE MARYLAND STATE HIGHWAYS ADMINISTRATION STANDARDS AND SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES.
 - A PREFIX OF 4 MAY HAVE TO BE ADDED TO ALL GRADES.
 - ALL UNSUITABLE AND EXCESS FILL MATERIAL SHALL BE DISPOSED OF OFF SITE. LOCATION OF DISPOSAL AREA SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - CONTACT "MISS UTILITY" AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATIONS.
 - EXISTING UTILITIES ARE BASED ON AVAILABLE RECORDS AND WERE FIELD-CHECKED WHERE POSSIBLE. CONTRACTOR MUST DIG TEST PITS BY HAND AT UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION AND INVERTS WELL IN ADVANCE OF CONSTRUCTION. IF CONNECTIONS ARE NOT AS SHOWN OR IF CONFLICT IS ANTICIPATED, ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH TRENCHING.
 - CONTRACTOR SHALL CLEAN UP THE WORK AREA AT THE COMPLETION OF THE PROJECT. ALL AREAS DISTURBED DURING THE CONSTRUCTION ACTIVITY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL ERCT A TEMPORARY CONSTRUCTION FENCE AND BARRICADE IN LOCATION SHOWN ON PLAN TO MINIMIZE INTERFERENCE WITH SCHOOL ACTIVITIES AND TO PROTECT BIKE PATH.
 - PITCH GUTTER OF CURBS TO CONFORM TO ADJACENT DRAINAGE PATTERN.
 - CONTRACTOR SHALL PROVIDE ALL SUITABLE FILL MATERIAL. LOCATION OF BORROW SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - CHAIN LINK FENCE SHALL BE 5 FEET HIGH AND HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD G8-01 THROUGH G8-02.
 - FOR CONSTRUCTION SPECIFICATIONS OF INFILTRATION TRENCH REFER TO "STANDARDS AND SPECIFICATIONS FOR INFILTRATION PRACTICES," MARYLAND DEPARTMENT OF NATURAL RESOURCES, WATER RESOURCES ADMINISTRATION, STORM WATER MANAGEMENT DIVISION, FEBRUARY 1984 EDITION.

- LIST OF ALTERNATES:
- ALTERNATE #1: BARRIER CURB (7" HEIGHT), HOWARD COUNTY DPW STD R-3.03, IN LIEU OF COMBINATION CURB AND GUTTER THROUGHOUT ENTIRE PARKING LOT (EXCEPT WHERE SHOWN ON PLAN AS 4" HEIGHT CURB AND AT TRANSITION).
- ALTERNATE #2: ASPHALT WALK IN LIEU OF CONCRETE WALK, HOWARD COUNTY DPW PAVING SECTION P-8, STD R-2.02.
- ALTERNATE #3: ELIMINATE CONCRETE WHEEL STOPS.
- ALTERNATE #1 - NOT ACCEPTED
ALTERNATE #2 - NOT ACCEPTED
ALTERNATE #3 - ACCEPTED



NOTE: REFER ALSO TO LIST OF ALTERNATES, ALTERNATE #3



SITE INFORMATION:

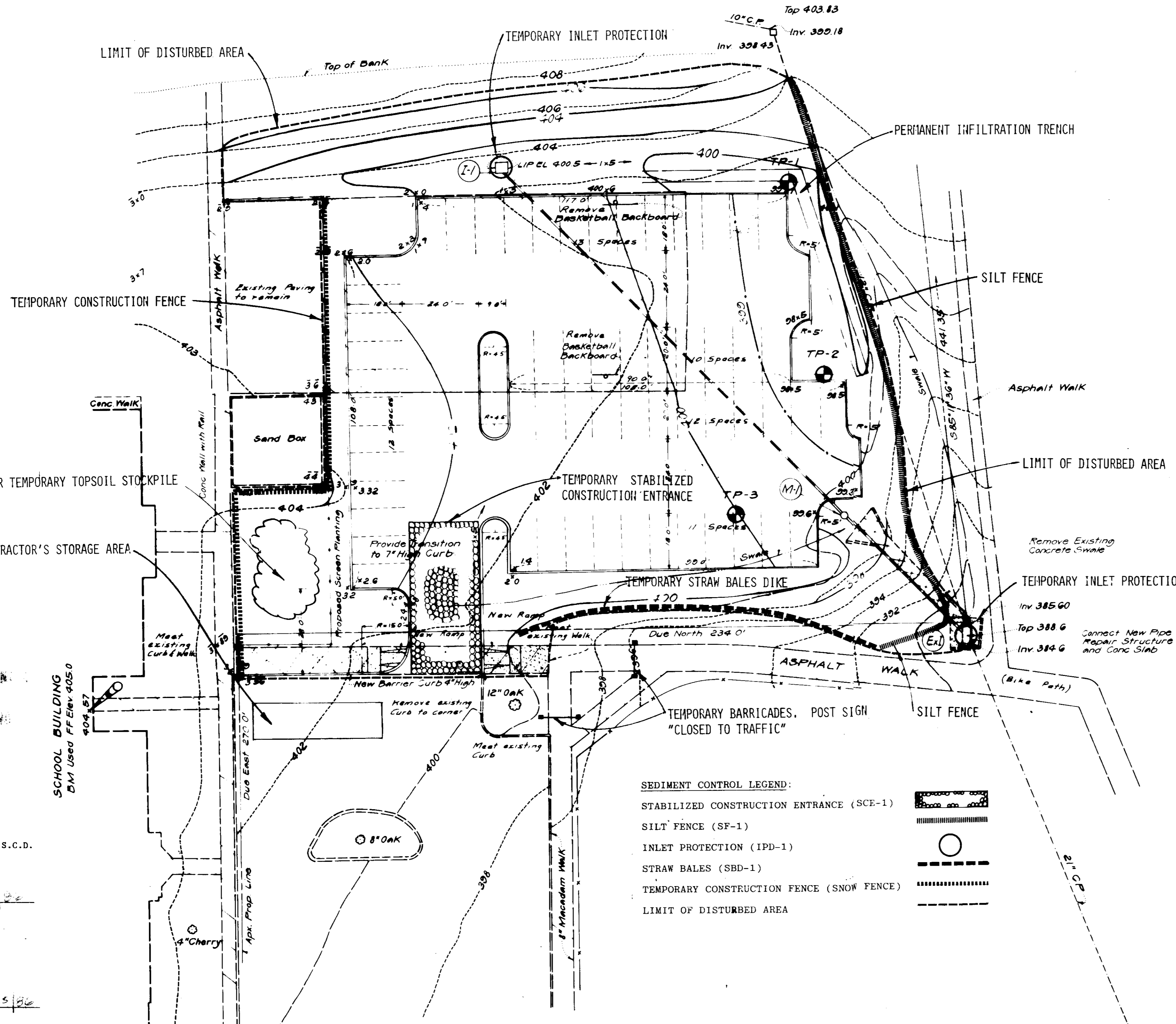
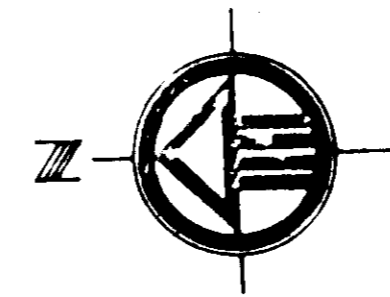
OWNER: BOARD OF EDUCATION
ADDRESS: 10910 ROUTE 108, ELLICOTT CITY, MD. 21043
TELEPHONE: (301) 261-0500
LOCATION: 5450 BLUE HERON LANE, COLUMBIA, MD.
ELECTION DISTRICT: #2
TAX MAP: #30
AREA OF PROPERTY: 9.25 ACRES
ZONING: NT Open Space FDP-2-A-V
PROPERTY RECORDED IN LIBER: 478
POLIO: 566

SUBDIVISION NAME VYL-BRYANT WOODS EL SCH	SECT./AREA 1/2.15	LOT/PARCEL # 215
PLAT TOP LT BLOCK # 12/46	ZONE NT	TAX/USE MAP 30
DATE 12/86	DATE 12/86	CONSTR. TR. G052.04
WATER CODE I-01	SEWER CODE 5601000	

<p>APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads</p> <p>HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>DATE: 6-25-86</p>	<p>APPROVED: For Public Water and Public Sewerage Systems</p> <p>HOWARD COUNTY HEALTH DEPARTMENT</p> <p>DATE: 6-26-86</p>	<p>APPROVED: Howard County Office of Planning and Zoning</p> <p>DATE: 6-27-86</p>	<p>ADDRESS CHART</p> <table border="1"> <tr> <th>LOT NUMBER</th> <th>STREET ADDRESS</th> </tr> <tr> <td>215</td> <td>5450 BLUE HERON</td> </tr> </table> <p>NOTE: ALL DETAILS SHOWN ARE NOT TO SCALE</p>	LOT NUMBER	STREET ADDRESS	215	5450 BLUE HERON	<p>PROJECT NAME: BRYANT WOODS ELEMENTARY SCHOOL</p> <p>VILLAGE OF WILDE LAKE, SECT. 1, O.S. LOT 215</p> <p>HOWARD COUNTY, MARYLAND-2nd Elect. Dist.</p> <p>DRAWING TITLE: PARKING ADDITION NOTES & DETAILS</p> <p>DATE: 4/15/86</p>	<p>ASSOCIATED ENGINEERS, INC.</p> <p>8555 SIXTEENTH STREET</p> <p>SILVER SPRING, MARYLAND 20910</p> <p>TEL. 301-589-7311</p> <p>SCALE: AS SHOWN</p> <p>DATE: 4/15/86</p> <p>REVISED: June 4, 1986</p>	<p>JOB NO: 2747 B</p> <p>SHEET NO: SP/1</p> <p>1 OF 3</p>
LOT NUMBER	STREET ADDRESS									
215	5450 BLUE HERON									

SDP-86-235c

NOTE: THIS DRAWING IS TO BE USED FOR SEDIMENT CONTROL ONLY



5-23-86
MS/AMM

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature Date 6/23/86
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.
Approved Date 6/25/86
Howard S.C.D.

DESIGN CERTIFICATION
I certify that this Erosion and Sediment Control plan is a complete and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the Howard County Soil Conservation District.
Signature Date 6/24/86

DEVELOPER'S CERTIFICATION
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard County Soil Conservation District.
Signature Date 4-22-86

RESPONSIBLE PERSONNEL CERTIFICATE
I HEREBY CERTIFY THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE OF A DNR APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
Signature Date 4-22-86
DEVELOPERS NAME AND TITLE

OWNER: BOARD OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MD 21043
TELE. (301) 281-0000

- SEDIMENT CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2437).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."
 - FOLLOWING INITIAL SOIL DISTURBANCE OR RELISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, "STORM DRAINAGE." (N/A FOR THIS PROJECT.)
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52), AND AS SPECIFIED HEREIN:
 - TOPSOIL SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES OF THE MARYLAND STATE HIGHWAY ADMINISTRATION. TOPSOIL SHALL BE 4 INCHES THICK (COMPACTED).
 - LIME SHALL BE SPREAD AT A RATE OF ONE (1) TON PER ACRE.
 - FERTILIZER 5-10-10 OR EQUIVALENT SHALL BE APPLIED AT A RATE OF 1700 LBS. PER ACRE. BOTH LIME AND FERTILIZER SHALL BE UNIFORMLY APPLIED TO THE LOOSENEED TOPSOIL AND SHALL BE RAKED SMOOTH PRIOR TO SEEDING.
 - SEED SHALL BE "KENTUCKY 31" TALL FESCUE APPLIED AT A RATE OF 2 LBS PER 1,000 SQ. FT. STRAW MULCH SHALL BE UNIFORMLY APPLIED AT THE RATE OF 70 TO 90 LBS. PER 1,000 FT.
 - SOD SHALL BE A CLASS OF TURF GRASS SOD AND SHALL BE MARYLAND STATE CERTIFIED OR MARYLAND STATE APPROVED SOD.
- TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:
TOTAL AREA OF SITE: 9.25 ACRES Total area of existing and proposed parking lots
AREA DISTURBED: 0.74 ACRES to remain 0.02 Acres (actual 0.88 Acres)
AREA TO BE PAVED: 0.42 ACRES
PAVING AREA TO BE REMOVED: 0.13 ACRES
NET AREA TO BE PAVED: 0.29 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.32 ACRES
TOTAL CUT: 130 C.Y. (EXCLUDING EXCAVATION FOR INFILTRATION TRENCHES)
TOTAL FILL: 120 C.Y.
OFFSITE WASTE AREA LOCATION: TO BE SUBMITTED
OFFSITE BORROW AREA LOCATION: TO BE SUBMITTED
CONTRACTOR WILL BE REQUIRED TO PROVIDE THE ABOVE INFORMATION PRIOR TO ISSUANCE OF THE PERMIT AND SUBMIT A SEDIMENT CONTROL PLAN ACCEPTABLE TO THE SOIL CONSERVATION DISTRICT.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

- SEDIMENT CONTROL CONSTRUCTION SEQUENCE:**
- INSTALL BARRICADE; POST SIGN "CLOSED TO TRAFFIC."
 - INSTALL ALL SEDIMENT CONTROL FEATURES, INCLUDING INLET PROTECTION AT EXISTING INLET.
 - INSTALL CONSTRUCTION FENCE.
 - CARRY OUT INITIAL TRENCH EXCAVATION FOR TEMPORARY STORMWATER MANAGEMENT. (REFER TO STORMWATER MANAGEMENT CONSTRUCTION SEQUENCE FOR TRENCH DIMENSIONS.)
 - DEMOLISH EXISTING PAVING.
 - STRIP TOPSOIL AND STOCKPILE.
 - ROUGH GRADE AREA.
 - CONSTRUCT STORM DRAIN; TEMPORARILY PLUG STRUCTURES AND PIPES.
 - FINE GRADE AND CONSTRUCT CURB AND BASE COURSE.
 - INSTALL INLET PROTECTION AT I-1.
 - SPREAD TOPSOIL AND STABILIZE ALL DISTURBED, UNPAVED AREAS.
 - UNPLUG STORM DRAIN PIPES AND MAKE SYSTEM OPERABLE.
 - COMPLETE EXCAVATION FOR PERMANENT INFILTRATION TRENCH AND FILL WITH STONE.
 - PLACE SURFACE COURSE AND CONSTRUCT WALKS.
 - REMOVE ALL SEDIMENT CONTROL FEATURES.
 - STABILIZE ALL REMAINING, DISTURBED AREAS.
 - CLEAN UP SITE AND BEGIN MAINTENANCE.

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature Date 6-25-86
CHIEF, BUREAU OF ENGINEERING

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
Signature Date 6-26-86
COUNTY HEALTH OFFICER

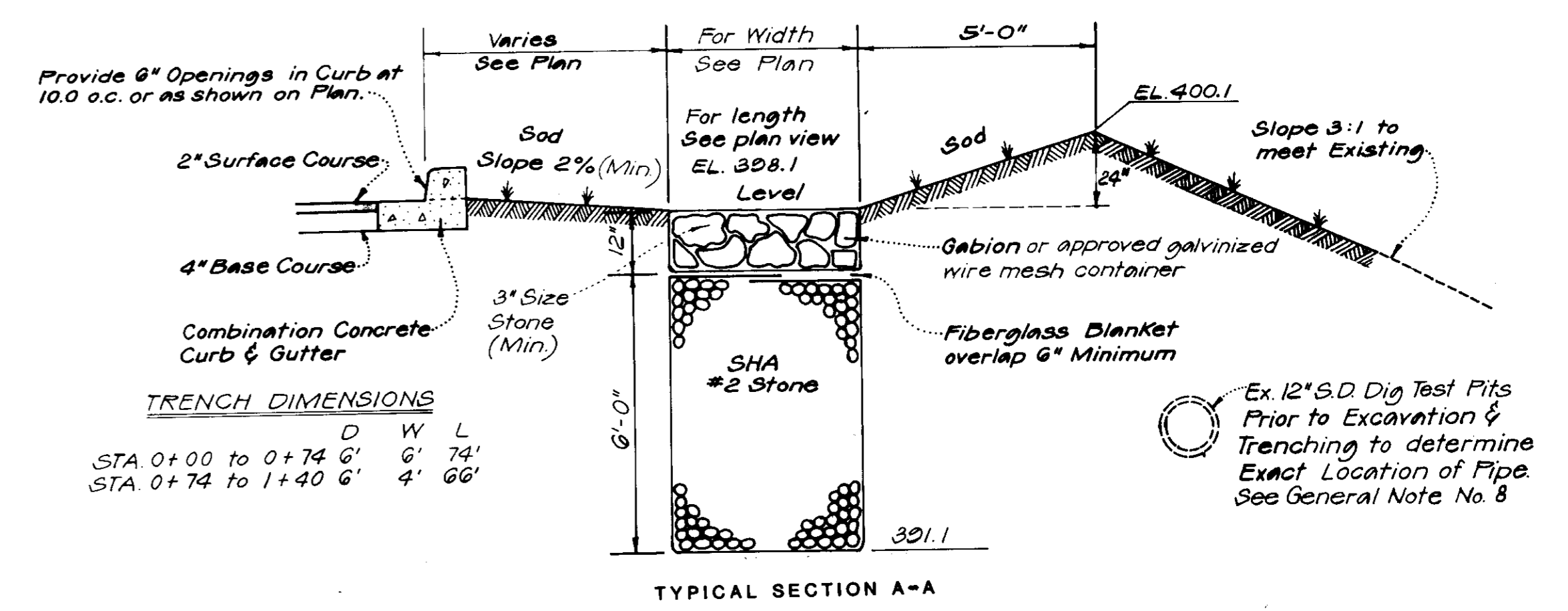
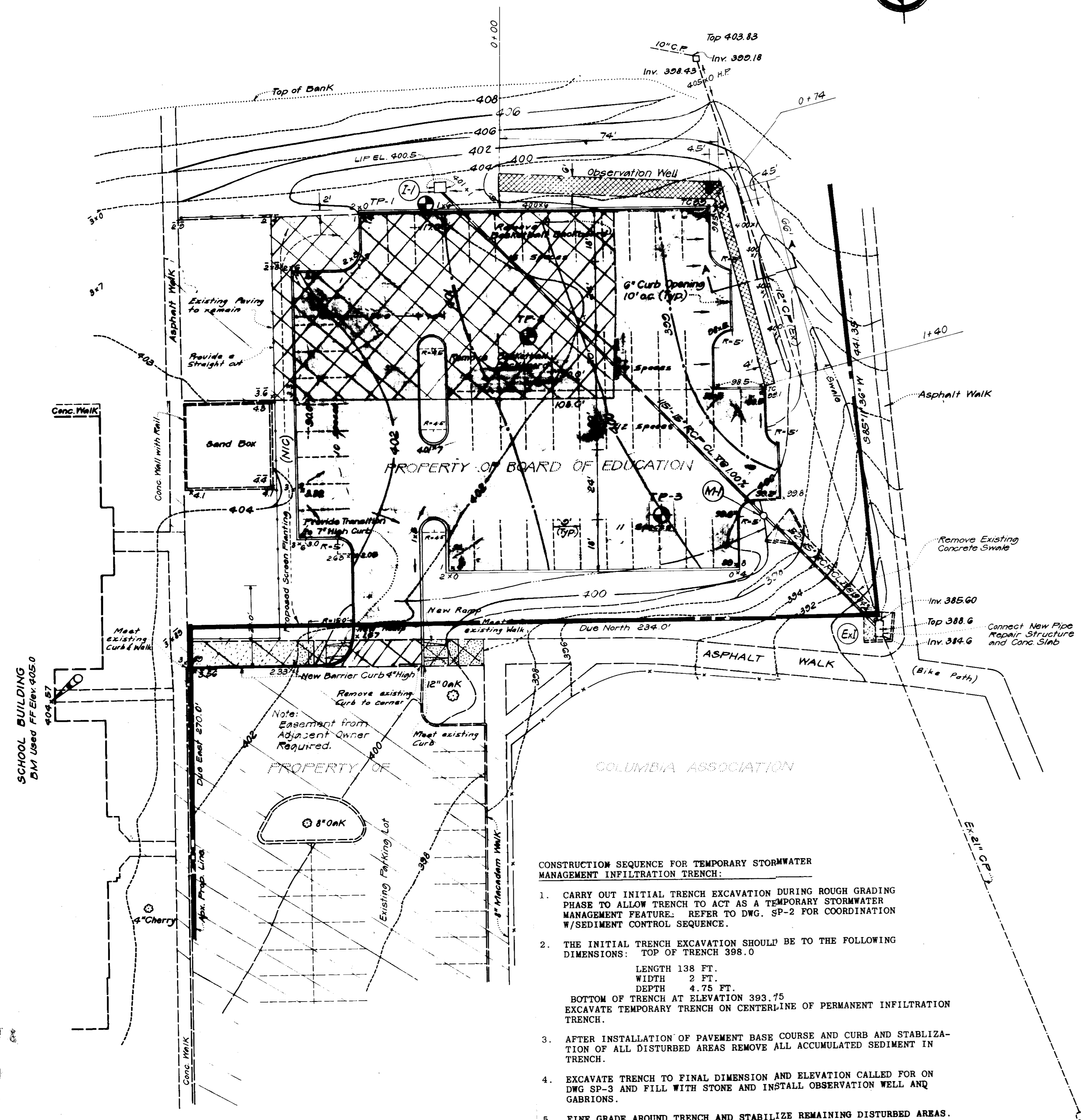
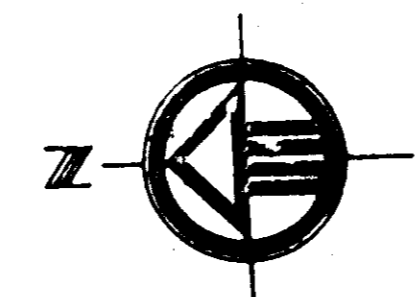
APPROVED: Howard County Office of Planning and Zoning
Signature Date 6-27-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE: THIS DRAWING SHALL BE USED FOR SEDIMENT CONTROL ONLY. REFER TO SHEET SP-1 FOR DETAILS.

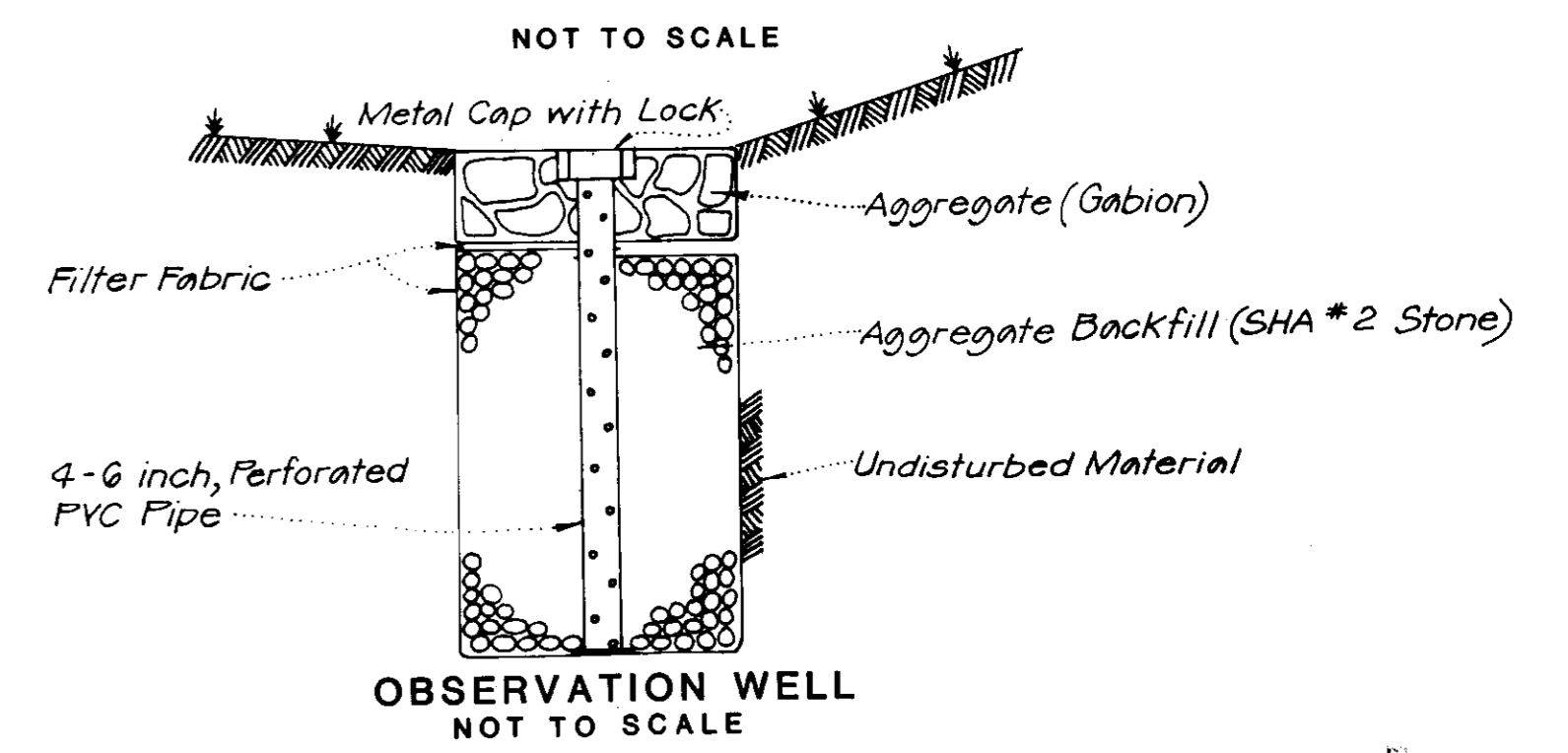
SDP-86-235C
Parking lot addition to SDP-84-97c

PROJECT NAME BRYANT WOODS ELEMENTARY SCHOOL VILLAGE OF WILDE LAKE, SECT. 1, O.S. LOT 215 HOWARD COUNTY, MARYLAND-2nd Elect. Dist.	ASSOCIATED ENGINEERS, INC. 8555 SIXTEENTH STREET SILVER SPRING MARYLAND 20910 TEL. 301 589-7311	JOB NO. 2747 B
DRAWING TITLE SEDIMENT & EROSION CONTROL PLAN	SCALE 1" = 20' DATE July 3, 1986 REVISED June 4, 1986	SHEET NO. 8R2 2 OF 3

SDP-86-235C



INFILTRATION TRENCH AT PARKING LOT



OBSERVATION WELL NOT TO SCALE

LEGEND

EXISTING SPOT GRADE	40.1
DESIGN SPOT GRADE	40.2
EXISTING CONTOUR	400
DESIGN CONTOUR	400
EXISTING PAVING	[Symbol]
EXISTING PAVING TO BE REMOVED	[Symbol]
NEW CONCRETE CURB & GUTTER	[Symbol]
NEW BITUMINOUS CONCRETE PAVING	[Symbol]
EXISTING STORM DRAIN	[Symbol]
NEW STORM DRAIN PIPE AND STRUCTURE	[Symbol]
INFILTRATION TRENCH	[Symbol]
NEW CHAIN LINK FENCE (5' HIGH)	[Symbol]
TEST PIT TAKEN	[Symbol]
NEW CONCRETE WALK	[Symbol]
NEW BARRIER CURB (4\"/>	

- CONSTRUCTION SEQUENCE FOR TEMPORARY STORMWATER MANAGEMENT INFILTRATION TRENCH:**
- CARRY OUT INITIAL TRENCH EXCAVATION DURING ROUGH GRADING PHASE TO ALLOW TRENCH TO ACT AS A TEMPORARY STORMWATER MANAGEMENT FEATURE. REFER TO DWG. SP-2 FOR COORDINATION W/SEDIMENT CONTROL SEQUENCE.
 - THE INITIAL TRENCH EXCAVATION SHOULD BE TO THE FOLLOWING DIMENSIONS:
 - TOP OF TRENCH 398.0
 - LENGTH 138 FT.
 - WIDTH 2 FT.
 - DEPTH 4.75 FT.
 - BOTTOM OF TRENCH AT ELEVATION 393.75
 - EXCAVATE TEMPORARY TRENCH ON CENTERLINE OF PERMANENT INFILTRATION TRENCH.
 - AFTER INSTALLATION OF PAVEMENT BASE COURSE AND CURB AND STABILIZATION OF ALL DISTURBED AREAS REMOVE ALL ACCUMULATED SEDIMENT IN TRENCH.
 - EXCAVATE TRENCH TO FINAL DIMENSION AND ELEVATION CALLED FOR ON DWG SP-3 AND FILL WITH STONE AND INSTALL OBSERVATION WELL AND GABRIONS.
 - FINE GRADE AROUND TRENCH AND STABILIZE REMAINING DISTURBED AREAS.

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 5-23-86

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 6-25-86

APPROVED: For Public Water and Public Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE 6-26-86

APPROVED: Howard County Office of Planning and Zoning
 PLANNING DIRECTOR
 DATE 6-27-86

Eva Peredra

SDP-86-235C
 Parking lot addition to SDP-84-97c

PROJECT NAME
**BRYANT WOODS
 ELEMENTARY SCHOOL**
 VILLAGE OF WILDE LAKE, SECT. 1, O.S. LOT 215
 HOWARD COUNTY, MARYLAND - 2nd Elect. Dist.

ASSOCIATED ENGINEERS, INC.
 8555 SIXTEENTH STREET
 SILVER SPRING, MARYLAND 20910
 TEL. 301-588-7311

JOB No. 2747 B
 SHEET No. SP-3 30F3

SCALE 1" = 20'
 DATE 4/15/86
 REVISED June 9, 1986
SDP-86-235C