

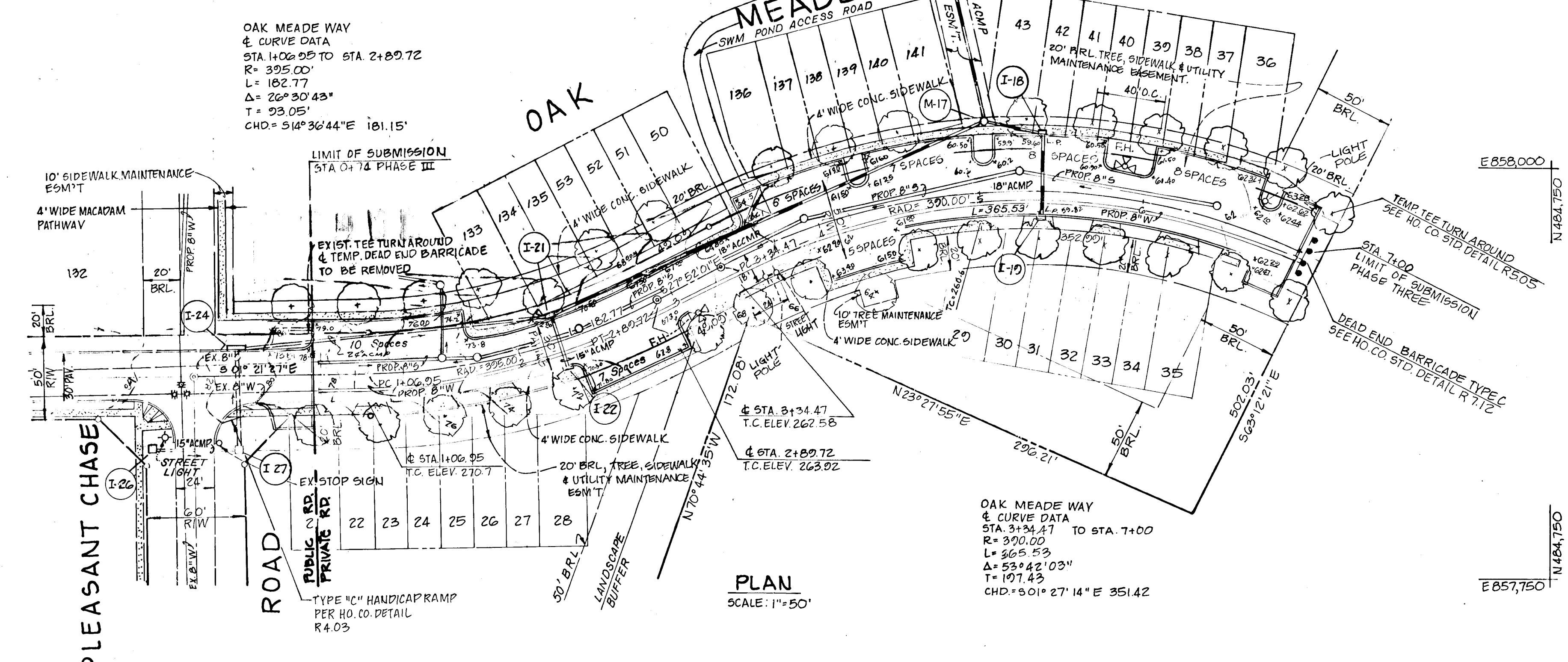
LANDSCAPE		LEGEND	
NO	TYPE	SIZE	REMARKS
35	ACER RUPESTRIS RED MAPLE	2 1/2" MIN. CALIPER	10' ALLEYS & UNPLANTED

NOTE: SEE PLANTING DETAIL SHEET 3 OF 7
* RECOMMENDED VARIETY: OCTOBER GLORY

- NOTES:
- FOR TYPICAL PAVING SECTIONS SEE SHEET 3 OF 7
 - FOR STORM DRAIN PROFILES SEE SHEET 3 OF 7
 - FOR LANDSCAPE LEGEND SEE THIS SHEET
 - CONTRACTOR TO LOCATE EXISTING UTILITIES TO HIS OWN SATISFACTION PRIOR TO STARTING ANY WORK ON THIS PLAN
 - FOR TREE PLANTING DETAIL SEE SHEET 3 OF 7
 - THE STREET LIGHTING FOR INTERSECTION OF PLEASANT CHASE ROAD, WADES WAY & OAK MEADE WAY IS EXISTING. (SEE PHASE ONE FOR TYPE.)
 - THE PROPOSED STREET LIGHTING FOR STA. 3+60 RIGHT SIDE OF OAK MEADE WAY SHALL BE A 100-WATT, TRADITIONAL SODIUM VAPOR LAMP, POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE.
 - PROPOSED STREET TREES SHALL BE A MINIMUM OF 4' OFF SIDEWALKS & STORM DRAINS.
 - NO STREET TREE SHALL BE PLANTED CLOSER THAN 20' TO ANY STREET LIGHT.

**PHASE THREE
ROAD CONSTRUCTION PLAN
GRADE ESTABLISHMENT PLAN
OAK MEADE WAY
PLEASANT CHASE**

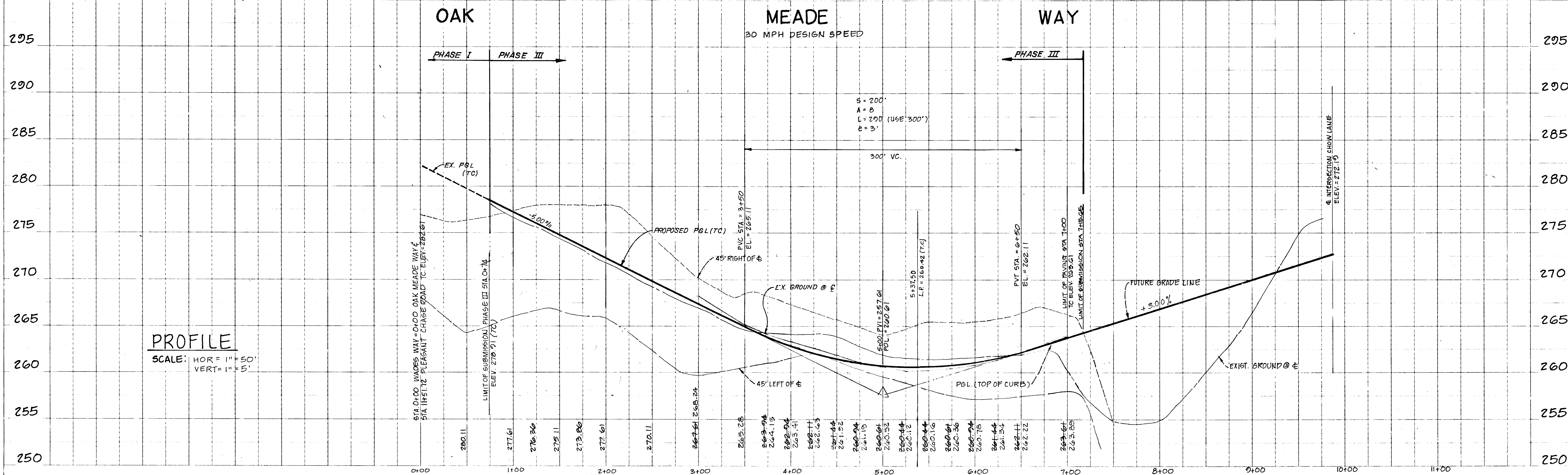
SECTION ONE
TAX MAP 43, PARCEL 211, 020, 023, 024
RESUBDIVISION OF 'ONE SPOT HEIGHTS'
PLAT BOOK 3 FOLIO 36 LOTS 7, 8, 9, 10, 11, 12, 14
RESUBDIVISION OF 'VILLA HEIGHTS'
PLAT BOOK 3 FOLIO 45
BLOCK 'A' (LOTS 4, 5, 6, 7) BLOCK 'D' (LOTS 7, 8, 9)
BLOCK 'E' (LOTS 10-13) BLOCK 'F' (LOTS 14-17)
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN, DATE: 11-92
SHEET 2 OF 7



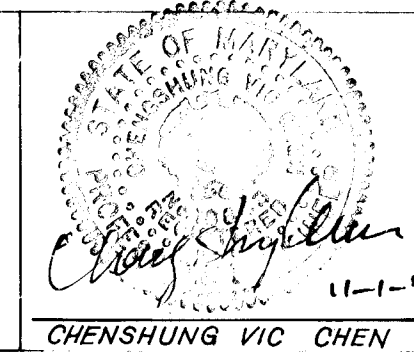
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.
Ann Summerville 3/10/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John J. ... 2/27/95
 CHIEF, LAND DEVELOPMENT DIVISION
 APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chen Shung Vic Chen 2/28/95
 CHIEF, BUREAU OF HIGHWAYS
 CHIEF, BUREAU OF ENGINEERING

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 2 OF 7

REF: 92-01-04, WP01-55, PB 212, WP02-105, WP 93-03

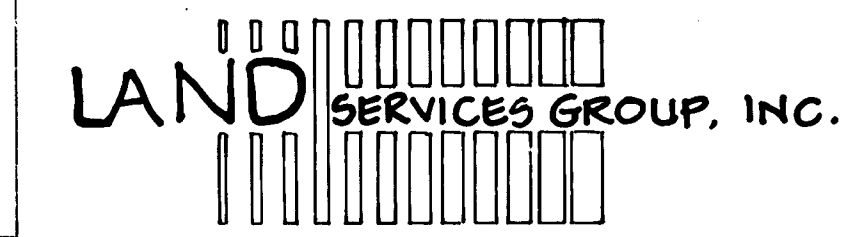


16591



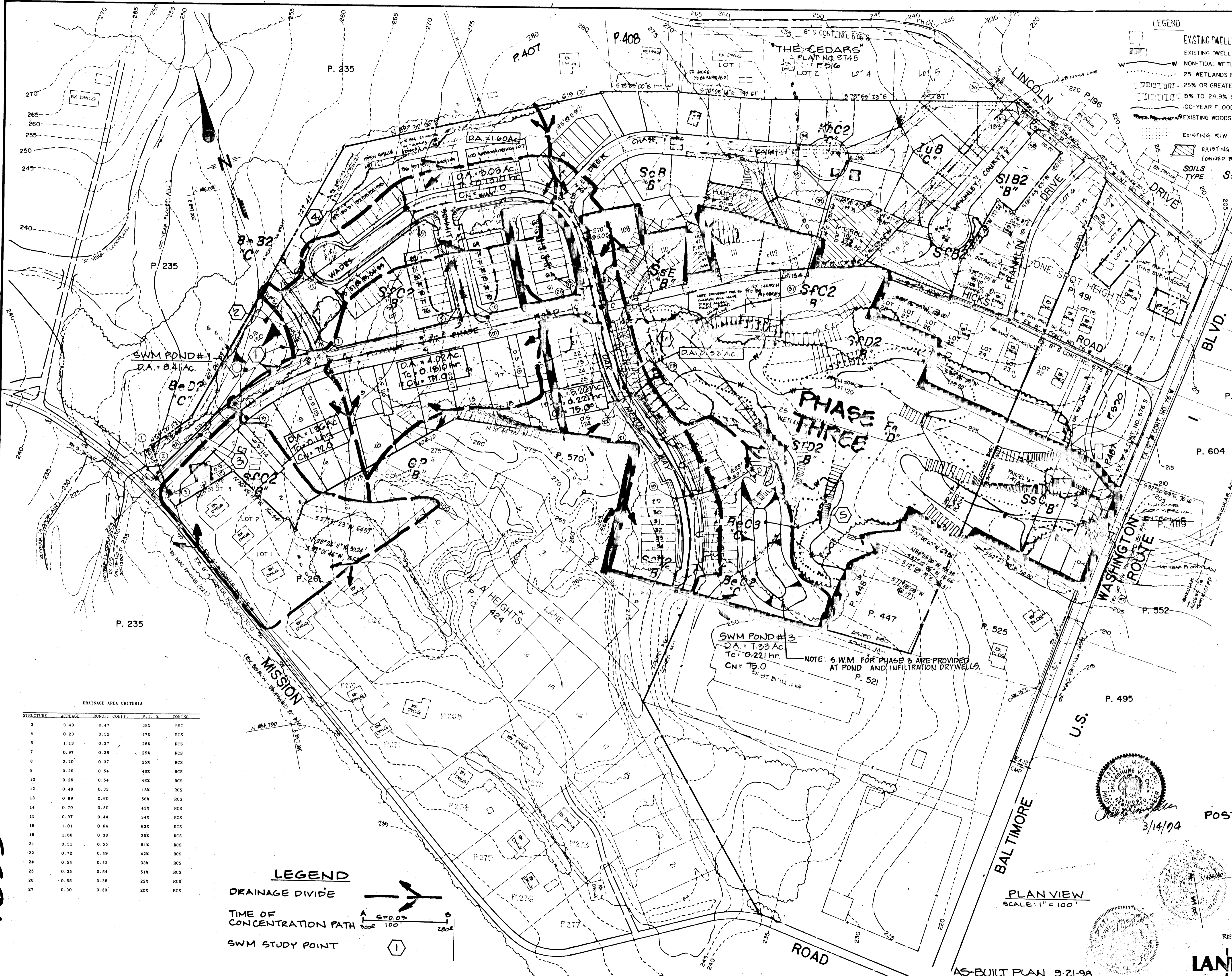
DES: J.P.H.
 DRN: J.G.A.
 CHK: R.W.G.
 DATE: 6-92
 BY: NO
 REVISION
 DATE

CONTRACT PURCHASER / DEVELOPER
 NEW PANORAMA DEVELOPMENT CORPORATION
 19200 BALTIMORE AVENUE
 LAUREL, MARYLAND 20707
 (301) 369-4000



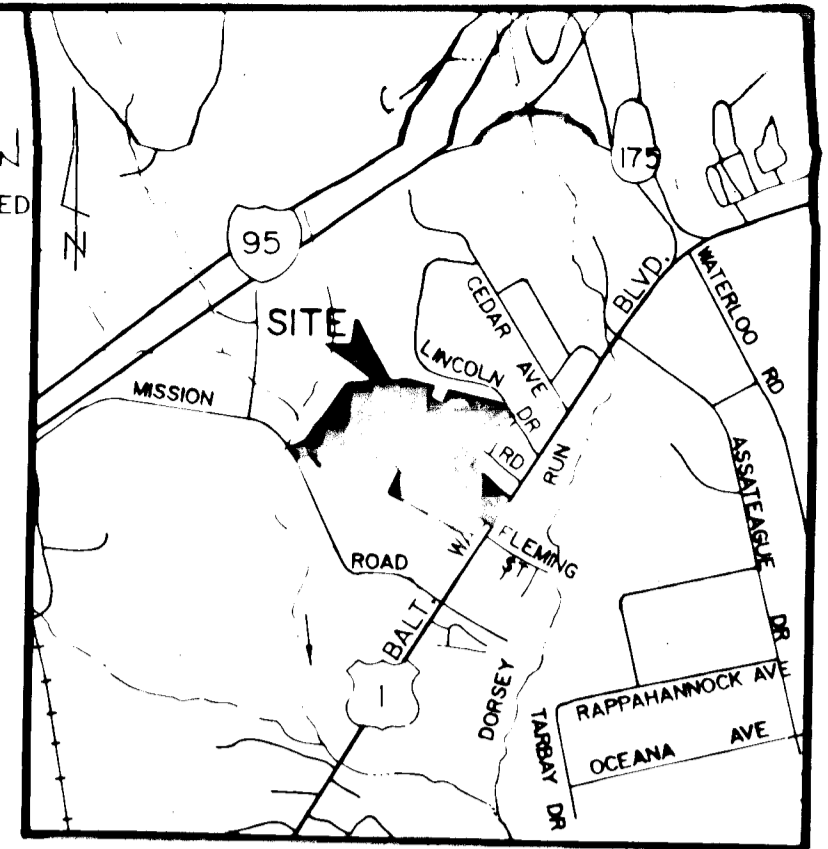
9801 BROKEN LAND PARKWAY
 SUITE 105
 COLUMBIA, MARYLAND 21046
 WASH. (301) 621-8006
 BALT. (301) 995-6010
 FAX (301) 995-6021

SCALE AS SHOWN
 SHEET 2 OF 7



LEGEND

- EXISTING DWELLING OR STRUCTURE TO REMAIN
- EXISTING DWELLING OR STRUCTURE TO BE REMOVED
- NON-TIDAL WETLANDS
- 25' WETLANDS BUFFER
- 25% OR GREATER SLOPES
- 15% TO 24.9% SLOPES
- 100-YEAR FLOOD PLAIN
- EXISTING WOODS TO BE SAVED
- EXISTING R/W
- EXISTING PARCELS (OWNED BY OTHERS)
- SOILS TYPE SFD2



OWNER'S/DEVELOPER'S CERTIFICATION

I HEREBY 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 CERTIFICATION OF ATTENDANCE AT A CONTROL OF EROSION AND SEDIMENTATION TRAINING PROGRAM FOR THE SMALL SWAGE AND RESIDUAL 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 OF POND CONSTRUCTION.

DATE: 5-14-94

SIGNATURE: *James P. Adams*

NAME: JAMES P. ADAMS TITLE: PRESIDENT PHONE NO. (301) 502-4000

FIRM: LEE ENORAMA DEVELOPMENT CORPORATION COMPLETE ADDRESS: 18255 BALTIMORE AVE. LAUREL, MD 20707

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, EROSION CONTROL, AND WETLANDS PROTECTION IS BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THE PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT THAT THESE PLANS MUST BE REVIEWED BY A 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.

DATE: 3-14-94

SIGNATURE: *James P. Adams*

NAME: JAMES P. ADAMS REGISTRATION NO. 18543 DATE: 3-14-94

FIRM: LEE ENORAMA DEVELOPMENT CORPORATION COMPLETE ADDRESS: 18255 BALTIMORE AVE. LAUREL, MD 20707

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

Patricia E. Adams 2/3/95
U.S. SOIL CONSERVATION DISTRICT SERVICE DATE

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

Robert G. Adams 2/3/95
HOWARD CO. SOIL CONSERVATION DISTRICT DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.

Anna J. Adams 3/14/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

James P. Adams 2/28/95
CHIEF, LAND DEVELOPMENT DIVISION DATE

James P. Adams 2/28/95
CHIEF, BUREAU OF HIGHWAYS DATE

James P. Adams 2/28/95
CHIEF, BUREAU OF ENGINEERING DATE

DRAINAGE AREA CRITERIA

STRUCTURE	AREA	RUNOFF COEFF.	P.L. S	ZONING
3	3.49	0.47	28%	RSC
4	0.23	0.52	47%	RCS
5	1.13	0.37	25%	RCS
7	0.97	0.38	25%	RCS
8	2.20	0.37	25%	RCS
9	0.28	0.54	46%	RCS
10	0.28	0.54	46%	RCS
12	0.49	0.33	18%	RCS
13	0.89	0.60	56%	RCS
14	0.70	0.50	43%	RCS
15	0.97	0.44	34%	RCS
18	1.01	0.64	63%	RCS
19	1.86	0.38	25%	RCS
21	0.51	0.55	51%	RCS
22	0.72	0.49	42%	RCS
24	0.54	0.43	33%	RCS
25	0.35	0.54	51%	RCS
26	0.55	0.36	22%	RCS
27	0.30	0.33	20%	RCS

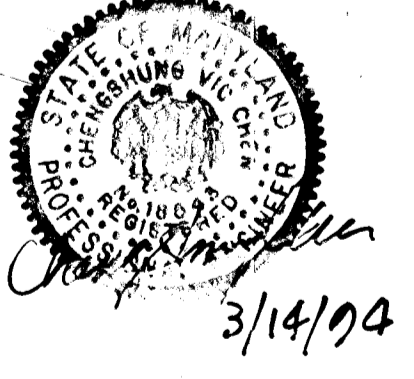
LEGEND

- DRAINAGE DIVIDE
- TIME OF CONCENTRATION PATH
- SWM STUDY POINT

SWM POND #3
D.A. = 1.33 AC
Tc = 0.221 hr
CN = 75.0

NOTE: 5 W.M. FOR PHASE 3 ARE PROVIDED AT POND AND INFILTRATION DRYWELLS.

PLAN VIEW
SCALE: 1" = 100'



**PHASE THREE
DRAINAGE AREA MAP
SWM
POST-DEVELOPMENT DRAINAGE AREAS
FOR PHASES 1 THRU 3
PLEASANT CHASE**

SECTION ONE
TAX MAP 43 PARCEL 21,620,623,634
RESUBDIVISION OF "ONE SPOT HEIGHTS"
PLAT BOOK 3 FOLIO 36, LOTS 7, 8, 9, 10, 11, 14
RESUBDIVISION OF "VILLA HEIGHTS"
PLAT BOOK 3 FOLIO 45
BLOCK 'A' (LOTS 4, 5, 6, 7) BLOCK 'D' (LOTS 7, 8, 9)
BLOCK 'E' (LOTS 1-8) BLOCK 'F' (LOTS 1-4)
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: 1-92
REF: 501-04, WP 01-55, PB 272, WP 02-185, WP 03-03

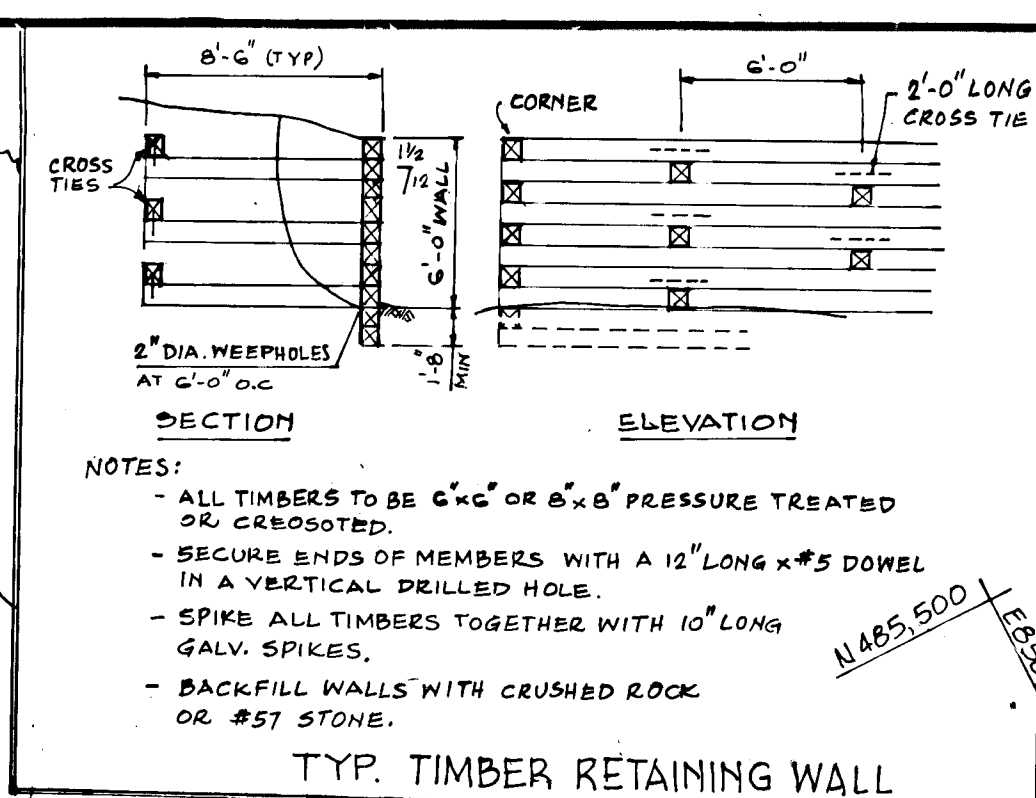
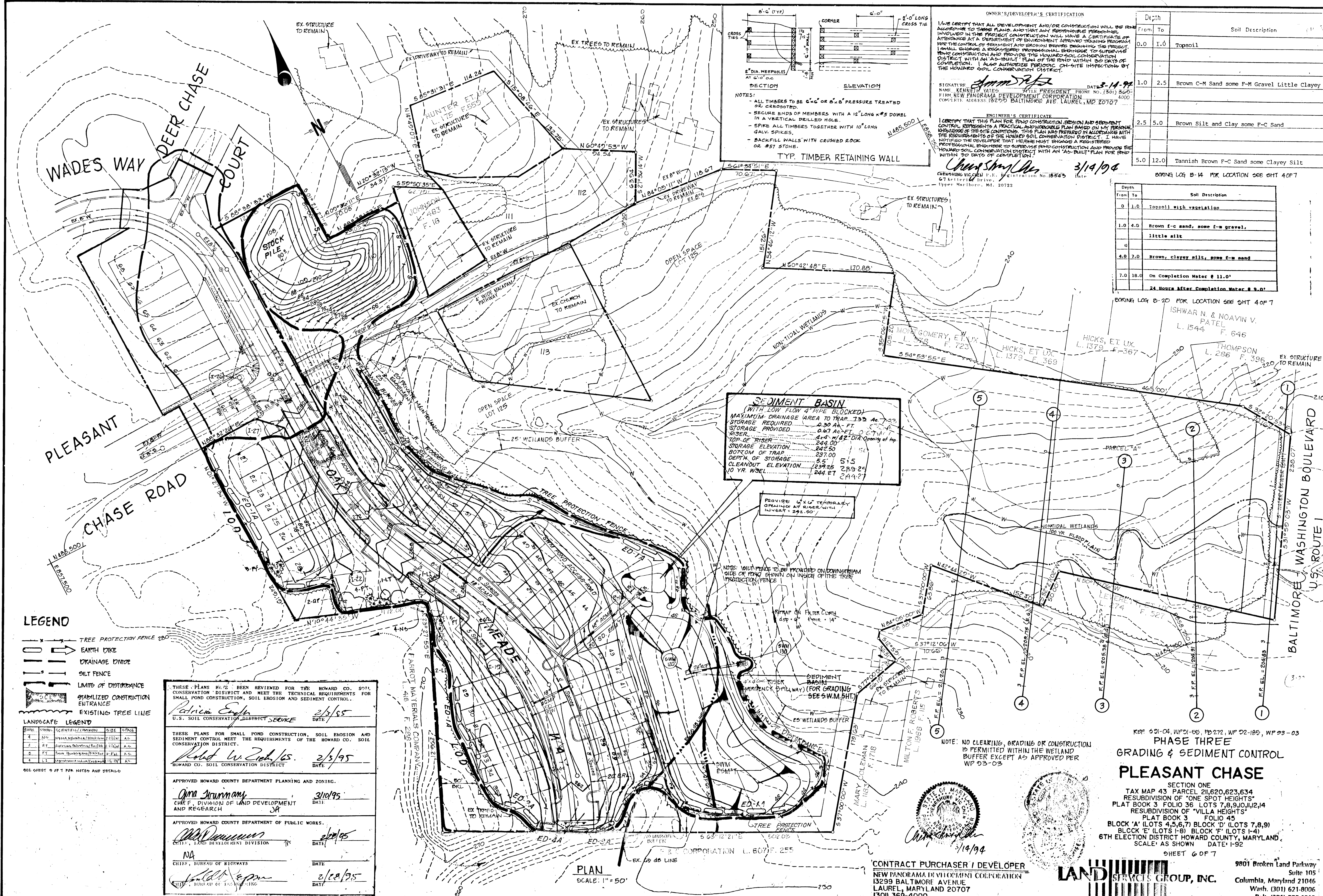
LAND GROUP, INC.

9801 Broken Land Parkway
Suite 105
Columbia, Maryland 21046
Wash. (301) 621-8006
Balt. (301) 995-6010
Fax (301) 995-6021
F 02-146 B SHT 5 OF 7

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 5 OF 7.

1653

1653



NOTES:

- ALL TIMBERS TO BE 6"x6" OR 6"x8" PRESSURE TREATED OR CROSBOTTED.
- SECURE ENDS OF MEMBERS WITH A 1/2" LONG x #5 DOWEL IN A VERTICAL DRILLED HOLE.
- SPIKE ALL TIMBERS TOGETHER WITH 10" LONG GALV. SPIKES.
- BACKFILL WALLS WITH CRUSHED ROCK OR #57 STONE.

TYP. TIMBER RETAINING WALL

OWNER'S/DEVELOPER'S CERTIFICATION

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

SIGNATURE: *Ken V. Vines* DATE: 3-14-99
 NAME: KEN V. VINES, CIVIL PRESIDENT PHONE NO. (301) 569-4000
 FIRM: NEW PANORAMA DEVELOPMENT CORPORATION, 4000 COMPLETE ADDRESS 18250 BALTIMORE AVE LAUREL, MD 20707

Depth	From	To	Soil Description
	0.0	1.0	Topsoil
	1.0	2.5	Brown C-M Sand some F-M Gravel Little Clayey Silt
	2.5	5.0	Brown Silt and Clay some F-C Sand
	5.0	12.0	Tannish Brown F-C Sand some Clayey Silt

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND SOUND 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 EMPLOY A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN FOR POND WITHIN 30 DAYS OF COMPLETION.

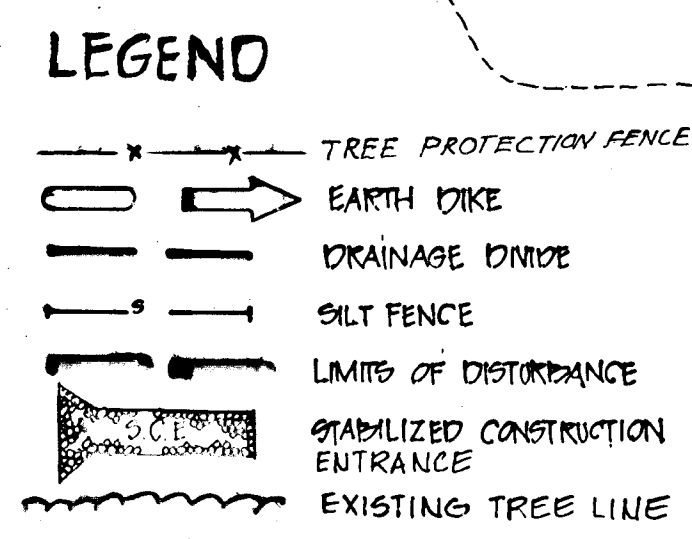
SIGNATURE: *Changsheng Chen* DATE: 3/14/99
 CHANGSHENG CHEN P.E. REGISTRATION NO. 15543
 Uppur Marlboro, Md. 20722

BORING LOG B-14 FOR LOCATION SEE SHT 4 OF 7

Depth	From	To	Soil Description
	0	1.0	Topsoil with vegetation
	1.0	4.0	Brown f-c sand, some f-w gravel, little silt
	4.0	7.0	Brown, clayey silt, some f-m sand
	7.0	18.0	On Completion Water @ 11.0'
			24 Hours After Completion Water @ 9.0'

SEDIMENT BASIN
 (WITH LOW FLOW 4" PIPE BLOCKED)

MAXIMUM DRAINAGE AREA TO TRAP: 1.33 AC @ 7.00'
 STORAGE REQUIRED: 0.30 AC-FT
 STORAGE PROVIDED: 0.67 AC-FT
 RISER: 4x4 W/42" DIA. OPENING AT TOP
 TOP OF RISER: 244.00'
 STORAGE ELEVATION: 242.50'
 BOTTOM OF TRAP: 237.00'
 DEPTH OF STORAGE: 5.5'
 CLEANOUT ELEVATION: 239.25' @ 9.25'
 10 YR. WSEL: 244.27' @ 9.25'



LANDSCAPE LEGEND

SYMBOL	SCIENTIFIC NAME	SIZE	PLANT
4	AP	10"	AP
1	PT	10"	PT
2	PT	10"	PT
4	LT	10"	LT

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

Patricia Engle 2/3/95
 U.S. SOIL CONSERVATION DISTRICT SERVICE DATE

Robert W. Zabolis 2/3/95
 HOWARD CO. SOIL CONSERVATION DISTRICT DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Uma Srivastava 3/10/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
John D. ... 2/2/95
 CHIEF, BUREAU OF HIGHWAYS DATE

Donald E. ... 2/28/95
 CHIEF, BUREAU OF PLANNING DATE

PLAN
 SCALE: 1" = 50'

AS-BUILT PLAN 9-21-98

CONTRACT PURCHASER / DEVELOPER
 NEW PANORAMA DEVELOPMENT CORPORATION
 13299 BALTIMORE AVENUE
 LAUREL, MARYLAND 20707
 (301) 369-4000

LAND SERVICES GROUP, INC.
 ENGINEERS • PLANNERS • SURVEYORS

REF: 501-04, WP01-05, WP02-06, WP02-05, WP03-03

PHASE THREE
GRADING & SEDIMENT CONTROL
PLEASANT CHASE

SECTION ONE
 TAX MAP 43 PARCEL 211,620,623,634
 RESUBDIVISION OF "ONE SPOT HEIGHTS"
 PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
 RESUBDIVISION OF "VILLA HEIGHTS"
 PLAT BOOK 3 FOLIO 45
 BLOCK 'A' (LOTS 4,5,6,7) BLOCK 'D' (LOTS 7,8,9)
 BLOCK 'E' (LOTS 1-8) BLOCK 'F' (LOTS 1-4)
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: 1-92
 SHEET 6 OF 7

9801 Broken Land Parkway
 Suite 105
 Columbia, Maryland 21046
 Wash. (301) 621-8006
 Balt. (301) 995-6010
 Fax (301) 995-6021

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE FOND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE FOND WITHIN 90 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE: *Kenneth Yates* DATE: 3-14-99
 NAME: KENNETH YATES PRESIDENT PHONE NO. (301) 362-4000
 FIRM: NEW PANORAMA DEVELOPMENT CORPORATION
 COMPLETE ADDRESS: 13299 BALTIMORE AVE. LAUREL, MD 21017

I CERTIFY THAT THIS PLAN FOR FOND 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 FOND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE FOND WITHIN 90 DAYS OF COMPLETION.

SIGNATURE: *Cheng Wang* DATE: 3/14/99
 CHENG WANG REGISTERED PROFESSIONAL ENGINEER No. 18543
 67 HATTERAS DRIVE
 UPPER MERRIDEN, MD 21722

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

SIGNATURE: *Patricia Engh* DATE: 2/2/95
 U.S. SOIL CONSERVATION DISTRICT

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

SIGNATURE: *Robert W. Zick* DATE: 2/3/95
 HOWARD CO. SOIL CONSERVATION DISTRICT

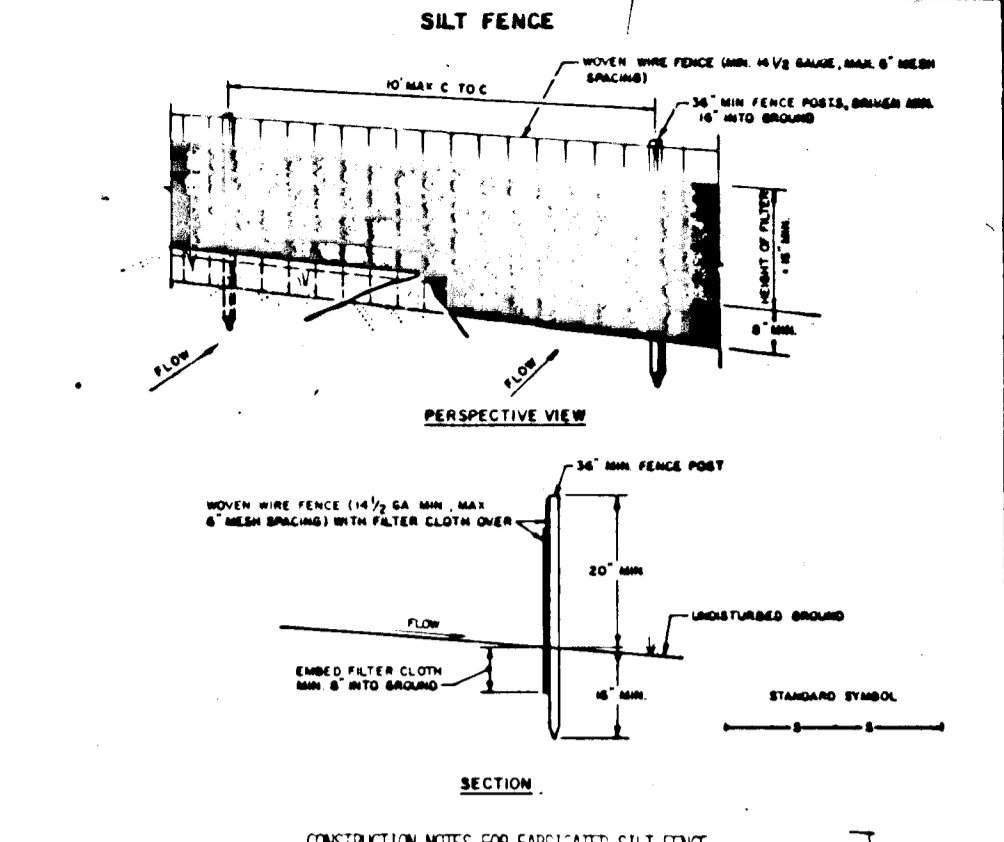
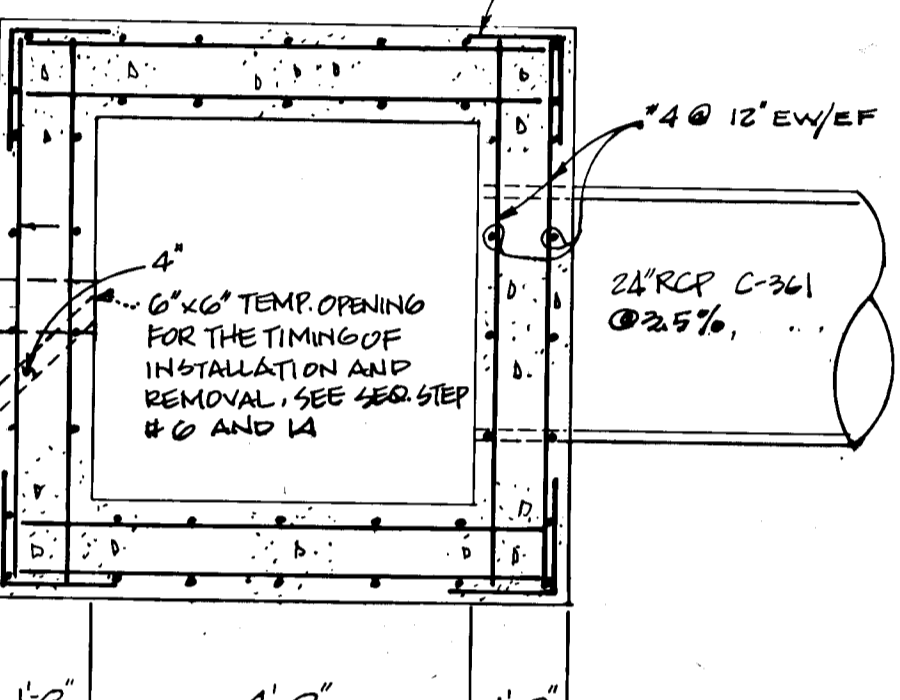
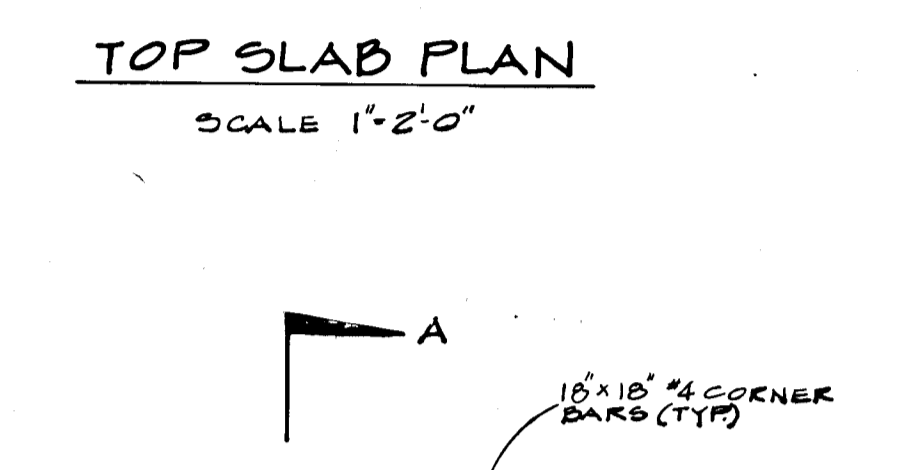
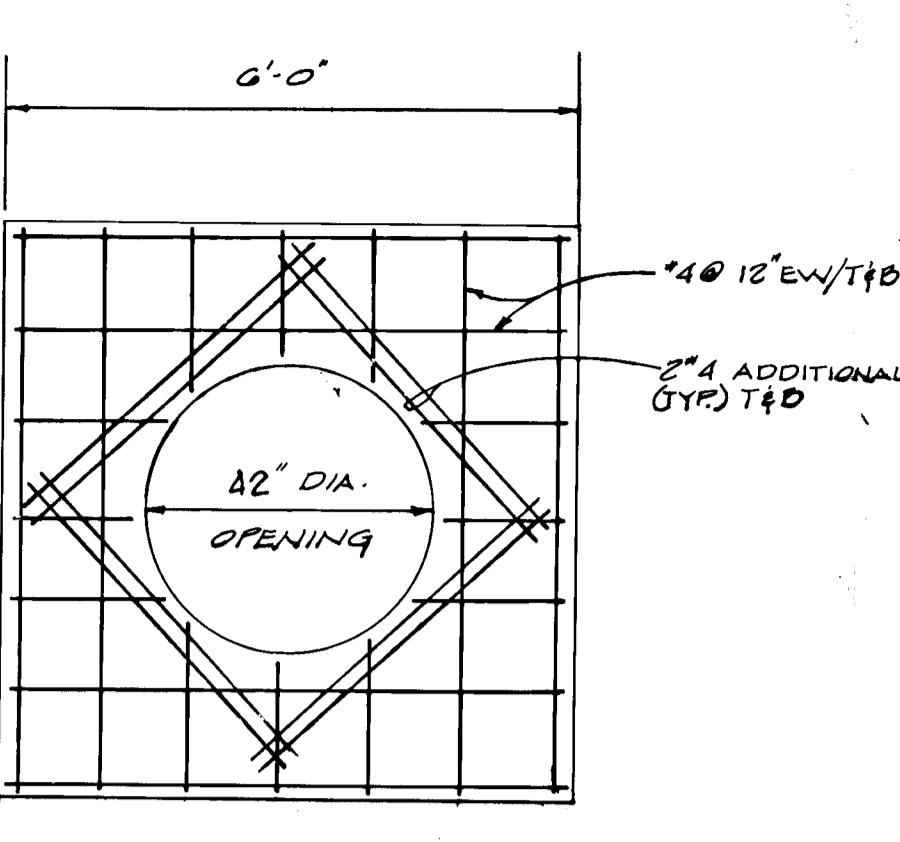
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

SIGNATURE: *Anna Swannick* DATE: 3/10/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

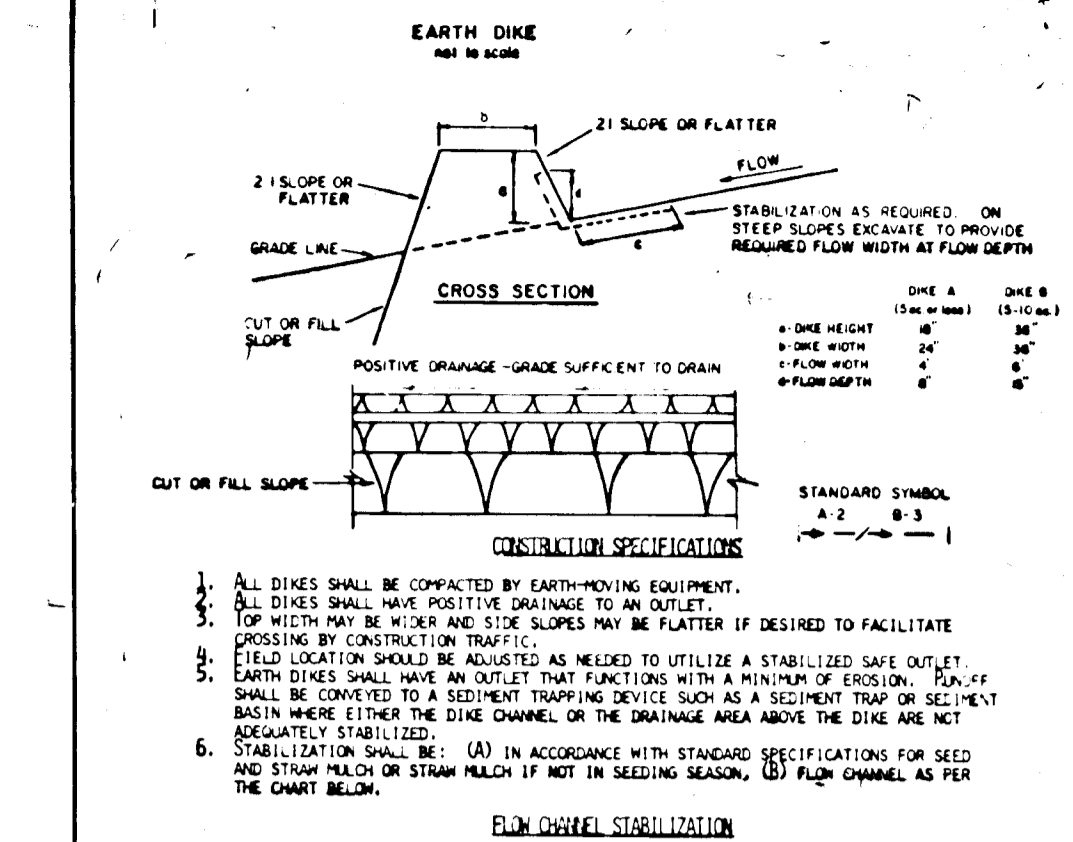
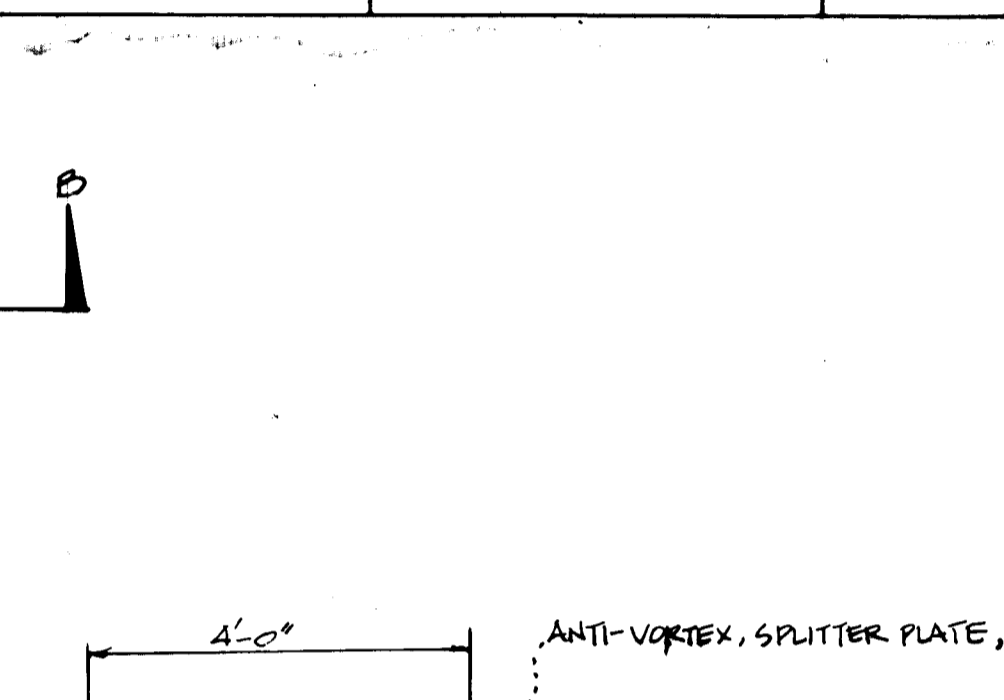
SIGNATURE: *NA* DATE: 2/28/95
 CHIEF, DEPARTMENT OF PUBLIC WORKS

SIGNATURE: *Paul Depa* DATE: 2/28/95
 CHIEF, BUREAU OF PUBLIC WORKS



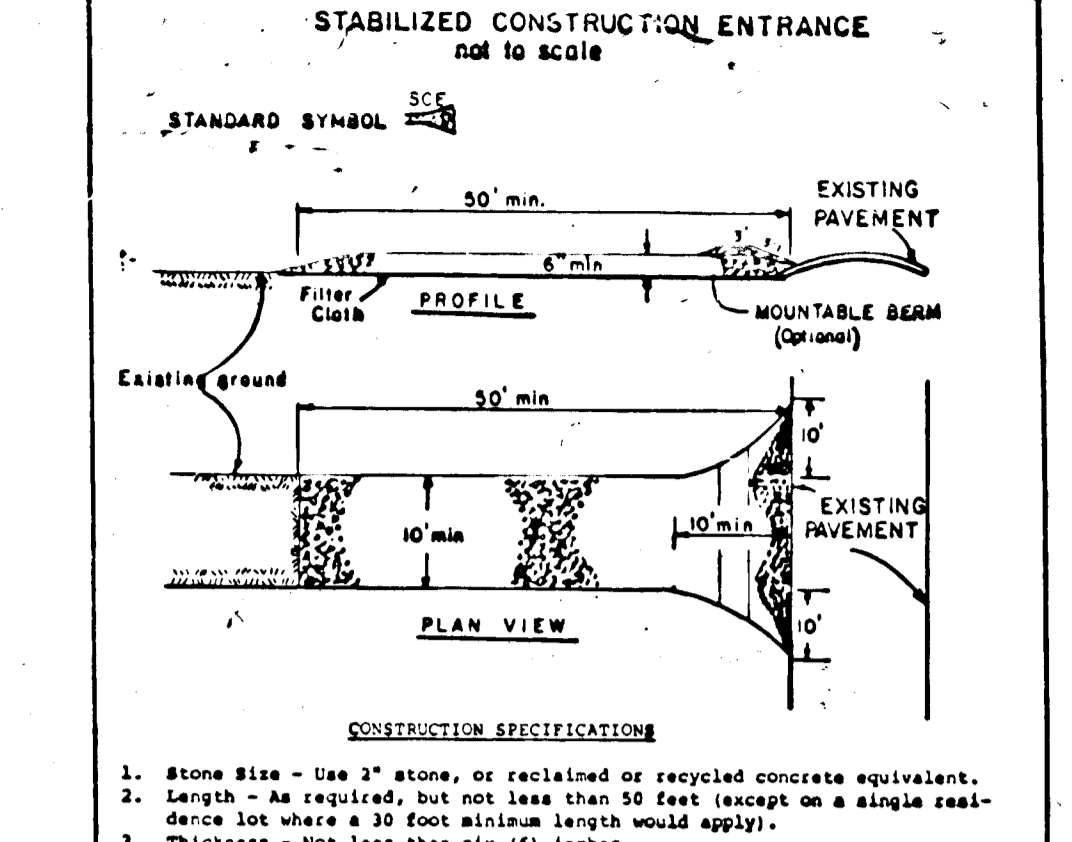
CONSTRUCTION NOTES FOR EARTH DIKE

- When wire fence is fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to wire fence with wire ties spaced every 24" at top and mid section.
- When the sections of filter cloth meet each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when needed.



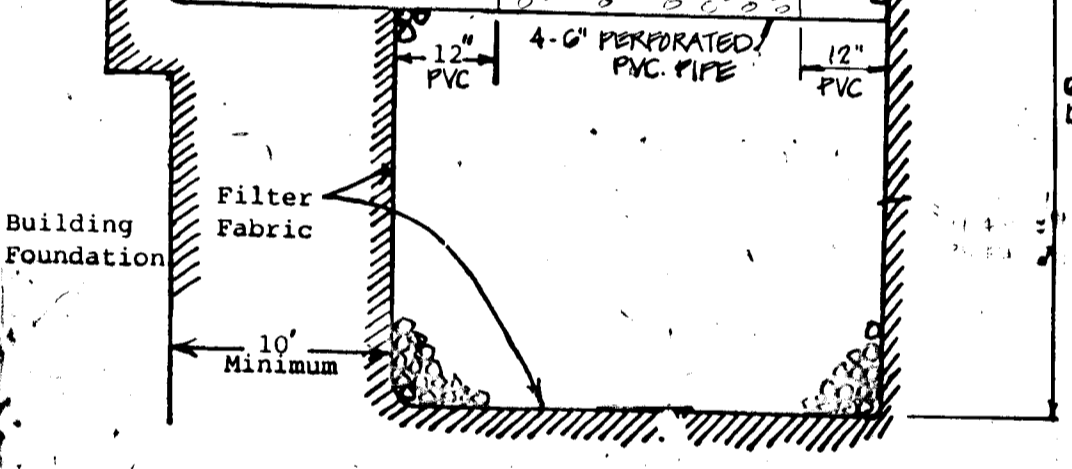
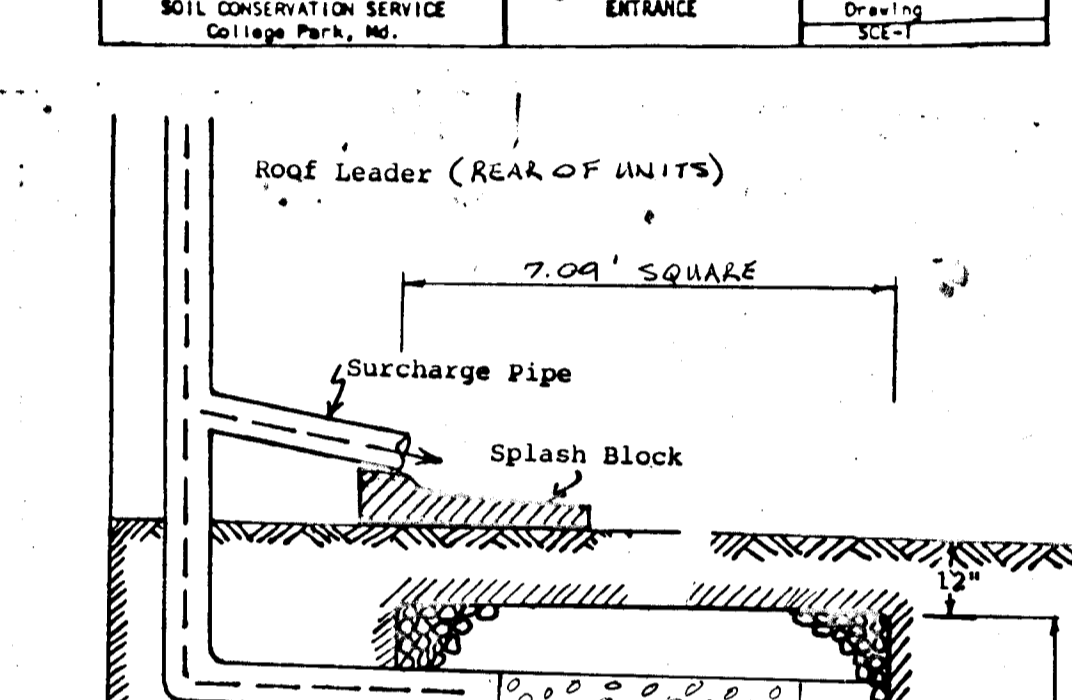
CONSTRUCTION SEQUENCE PHASE III

- OBTAIN GRADING PERMIT.
- INSTALL TREE PROTECTION FENCE PRIOR TO ANY INSTALLATION OF SEDIMENT CONTROL DEVICES.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN.
- CLEAR & GRUB AREAS WITHIN LIMITS OF DISTURBANCE.
- BEGIN SMALL FOND CONSTRUCTION AND BLOCK LOW FLOW 4" PIPE PERIODIC TEMP. WATER WALL OPENING (6"x6") AS SHOWN.
- GRADE THE SITE AS SHOWN ON PLAN.
- INSTALL STORM DRAIN, WATER AND SEWER AS SHOWN ON PLAN.
- INSTALL CURB & GUTTER AS SHOWN.
- LAY BASE COURSE FOR ROADWAYS.
- DURING CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
- DURING CONSTRUCTION & AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT & PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT & EROSION CONTROL STRUCTURES SHOWN HEREOF.
- REMOVE STABILIZED CONSTRUCTION ENTRANCE.
- CLEAN BASE COURSE, APPLY TACT COAT, BASE COURSE & SURFACE COURSE, STABILIZE ALL DISTURBED AREAS USING PERMANENT SEEDING MIXTURE & STRAW MULCH, CONVERT SEDIMENT BASIN INTO SWAMP POND, BLOCK TEMP. 6" RCP OPENING USING CONC. FLUSH STORM DRAIN SYSTEM.
- UPON PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES & STABILIZE ANY REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE & STRAW MULCH.



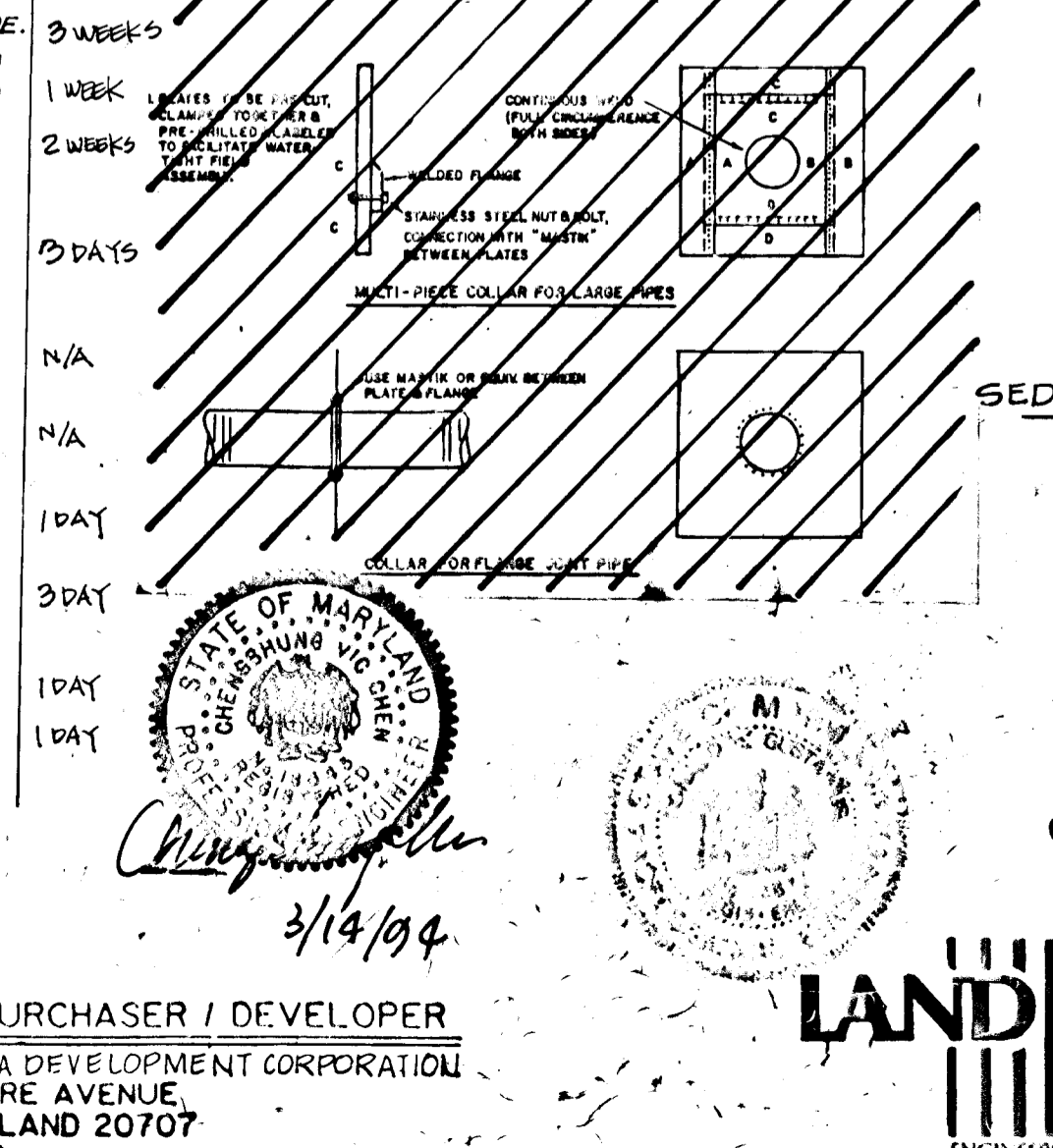
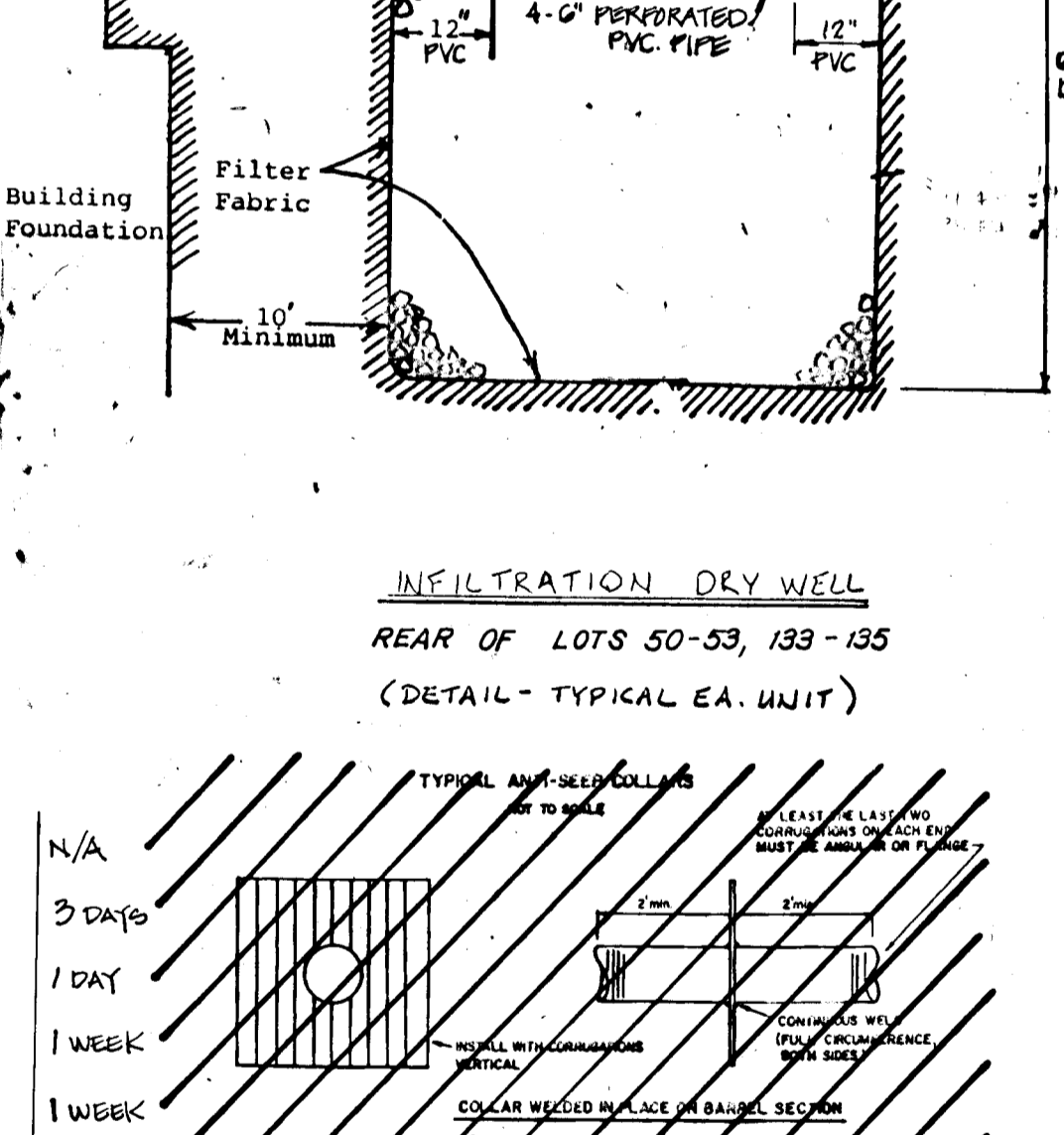
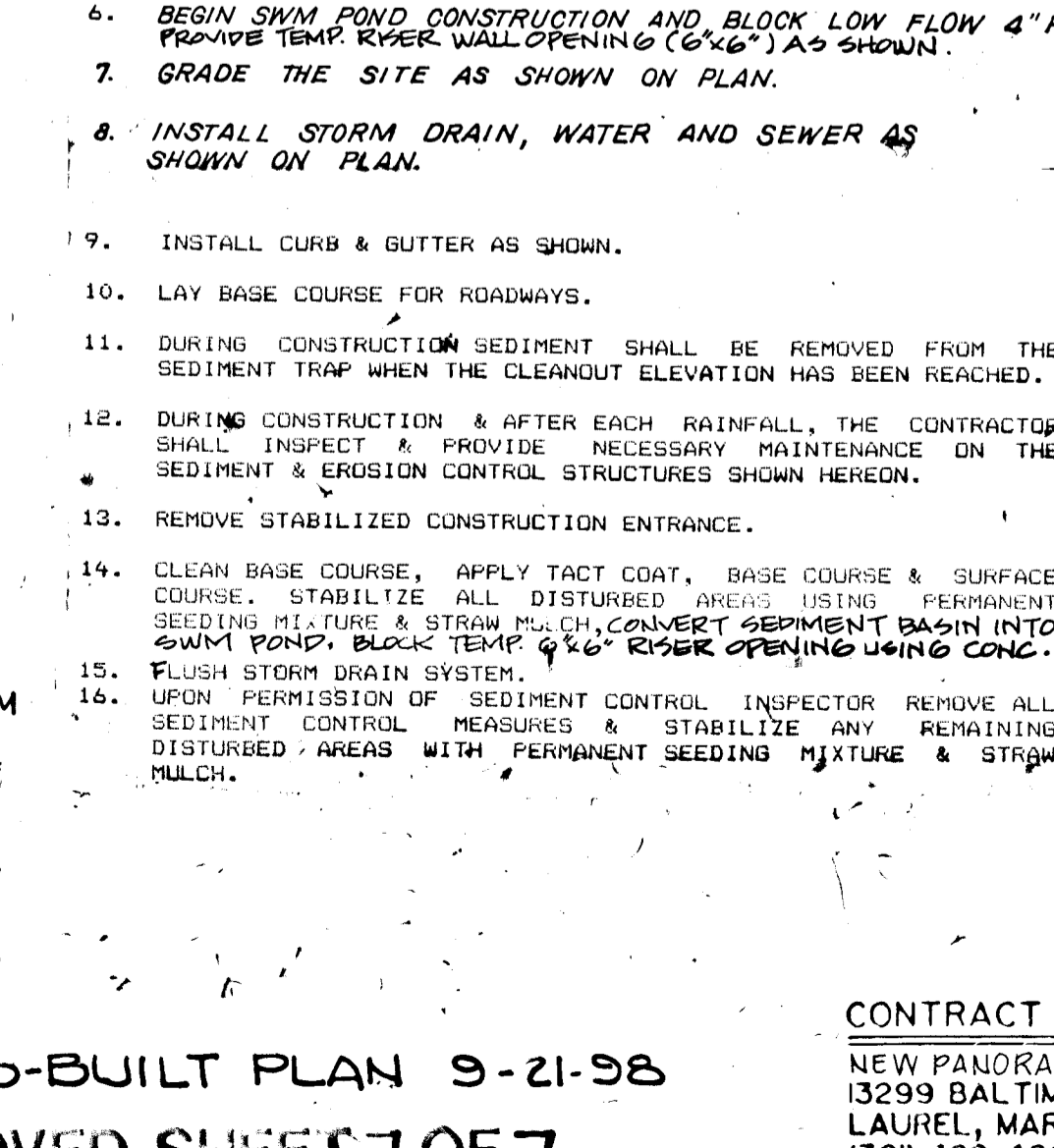
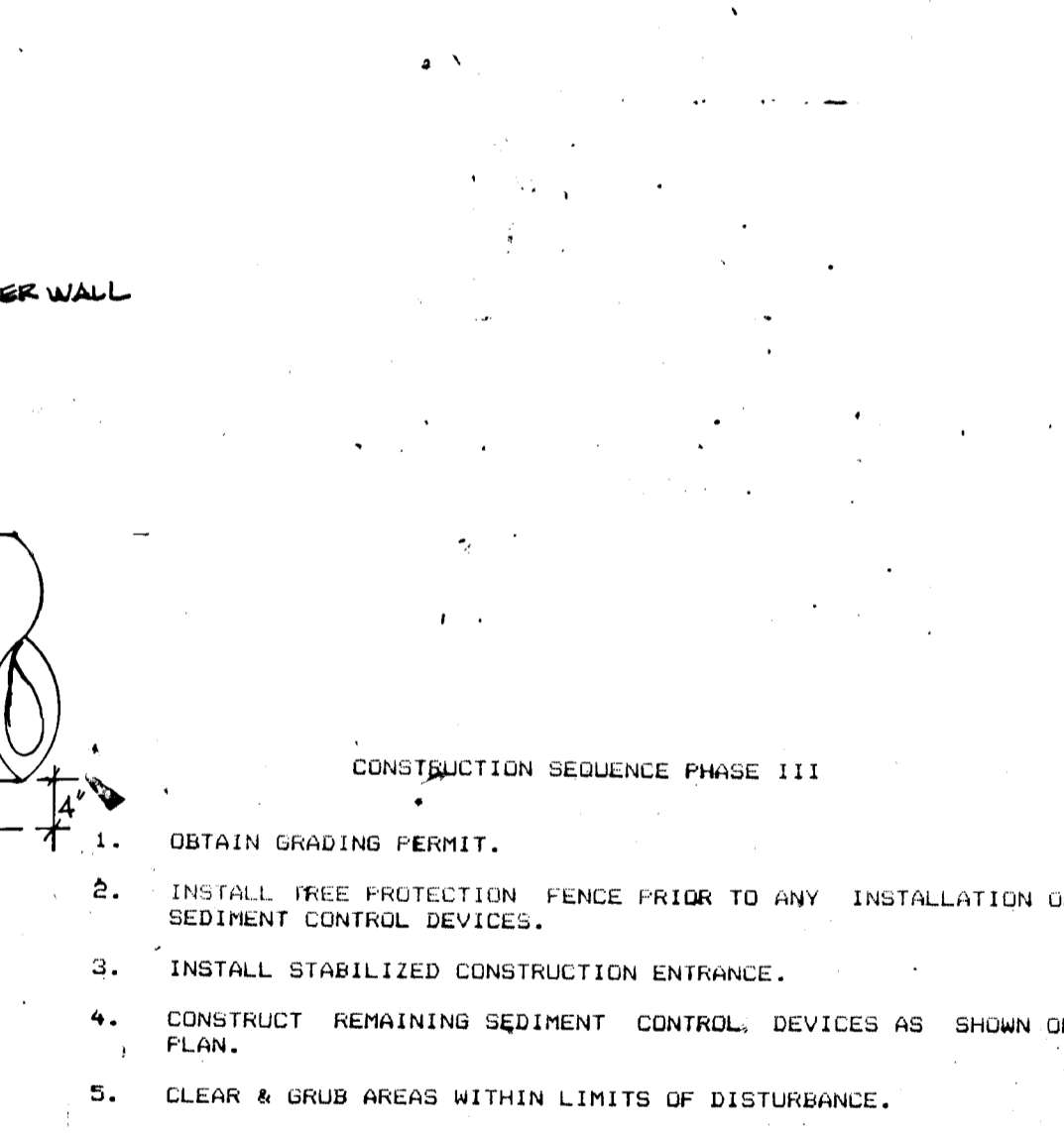
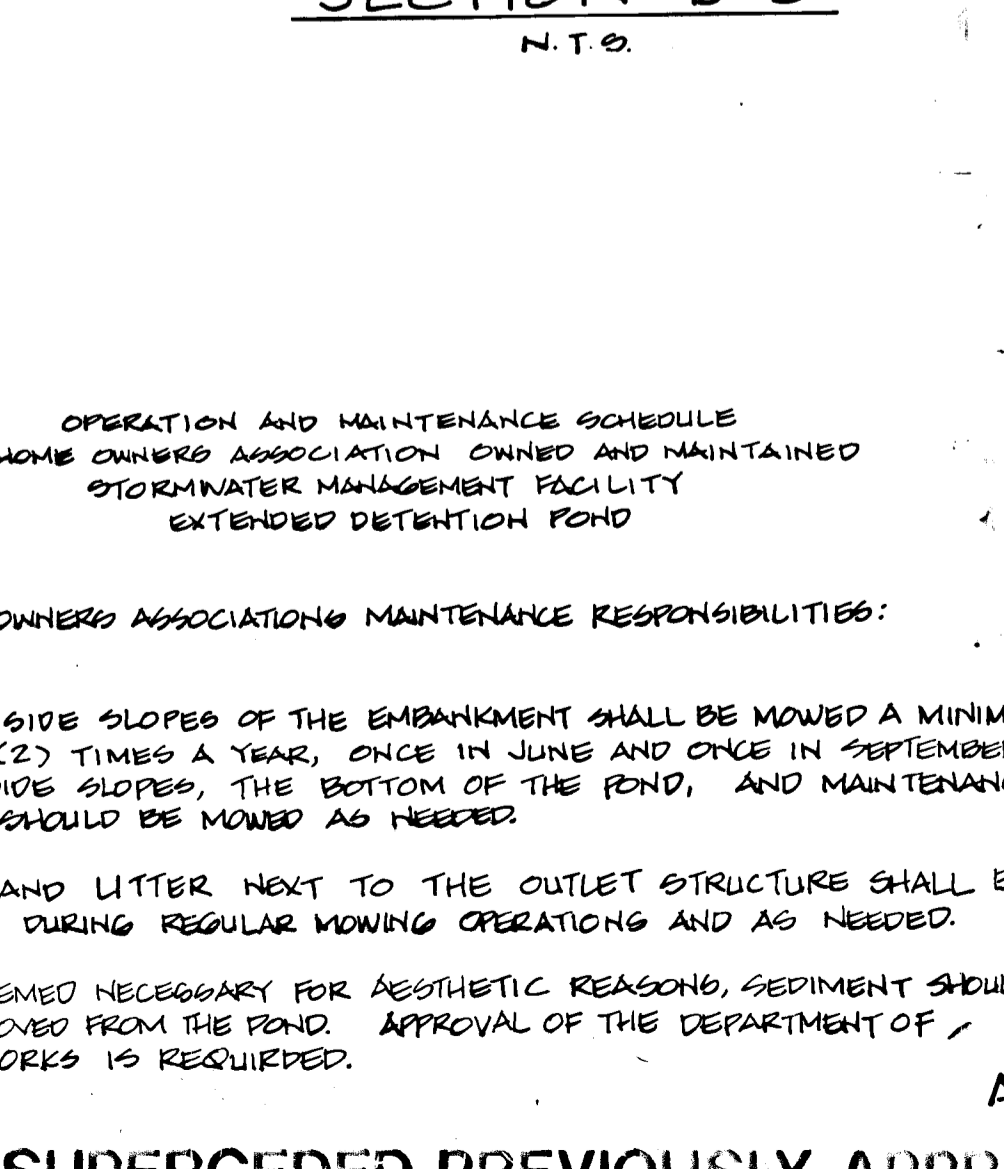
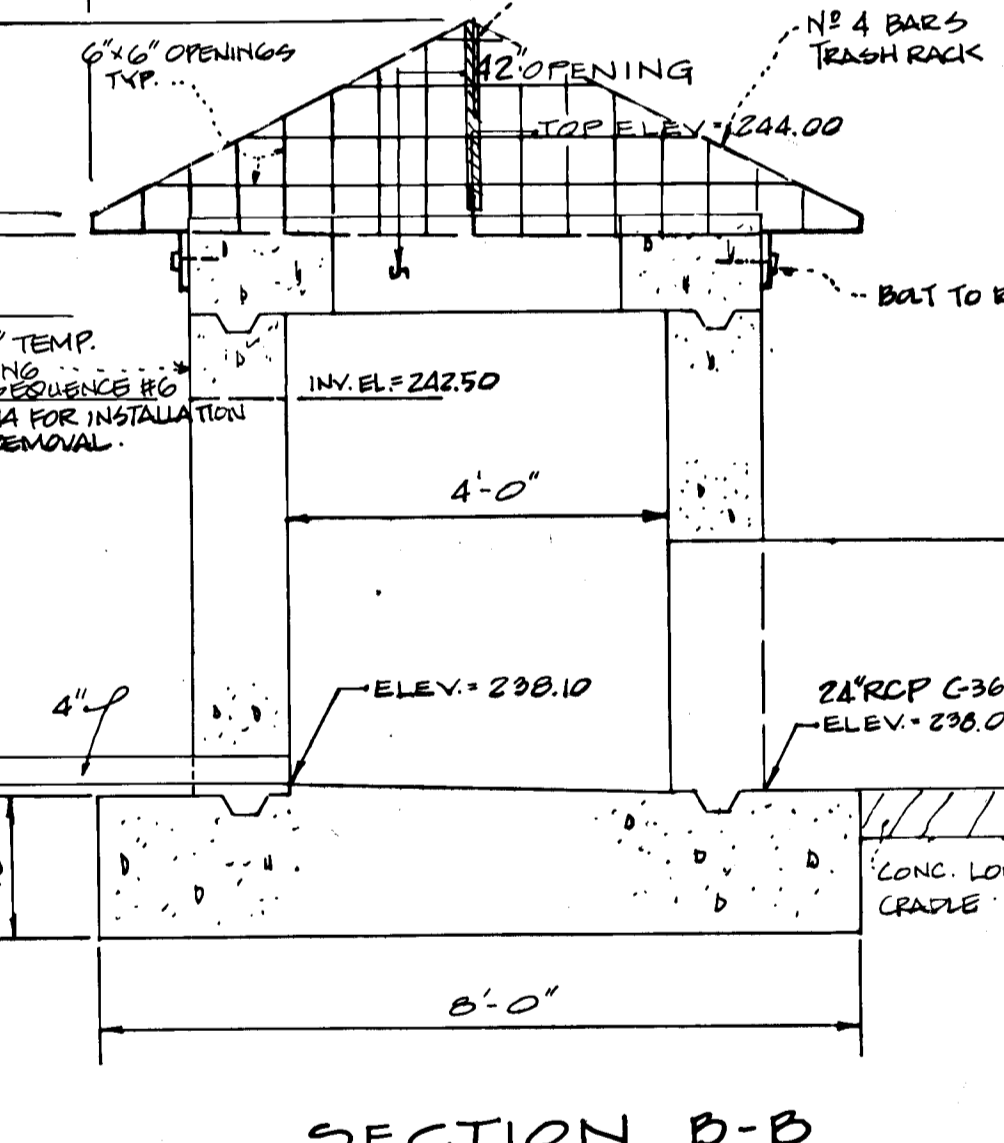
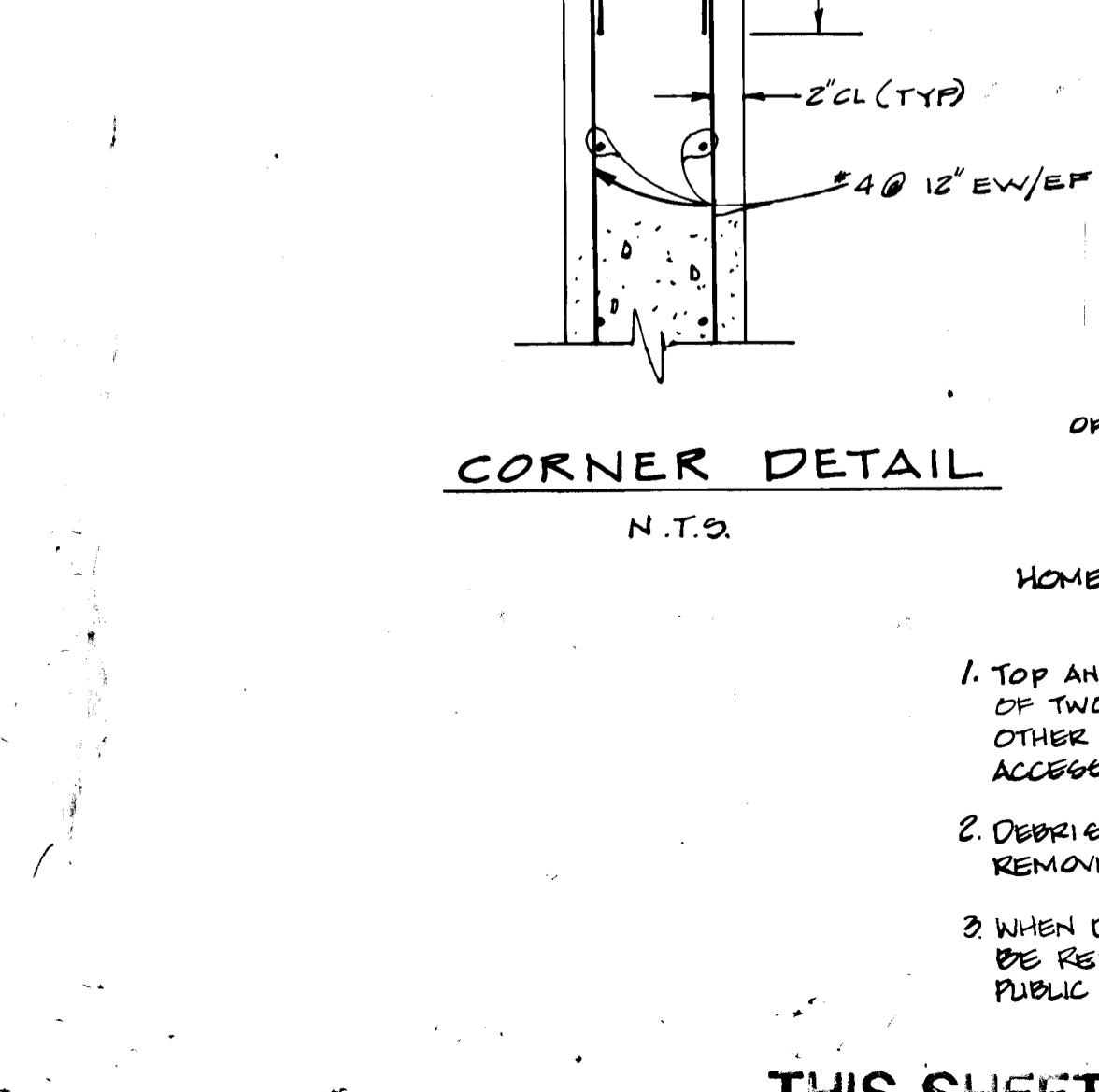
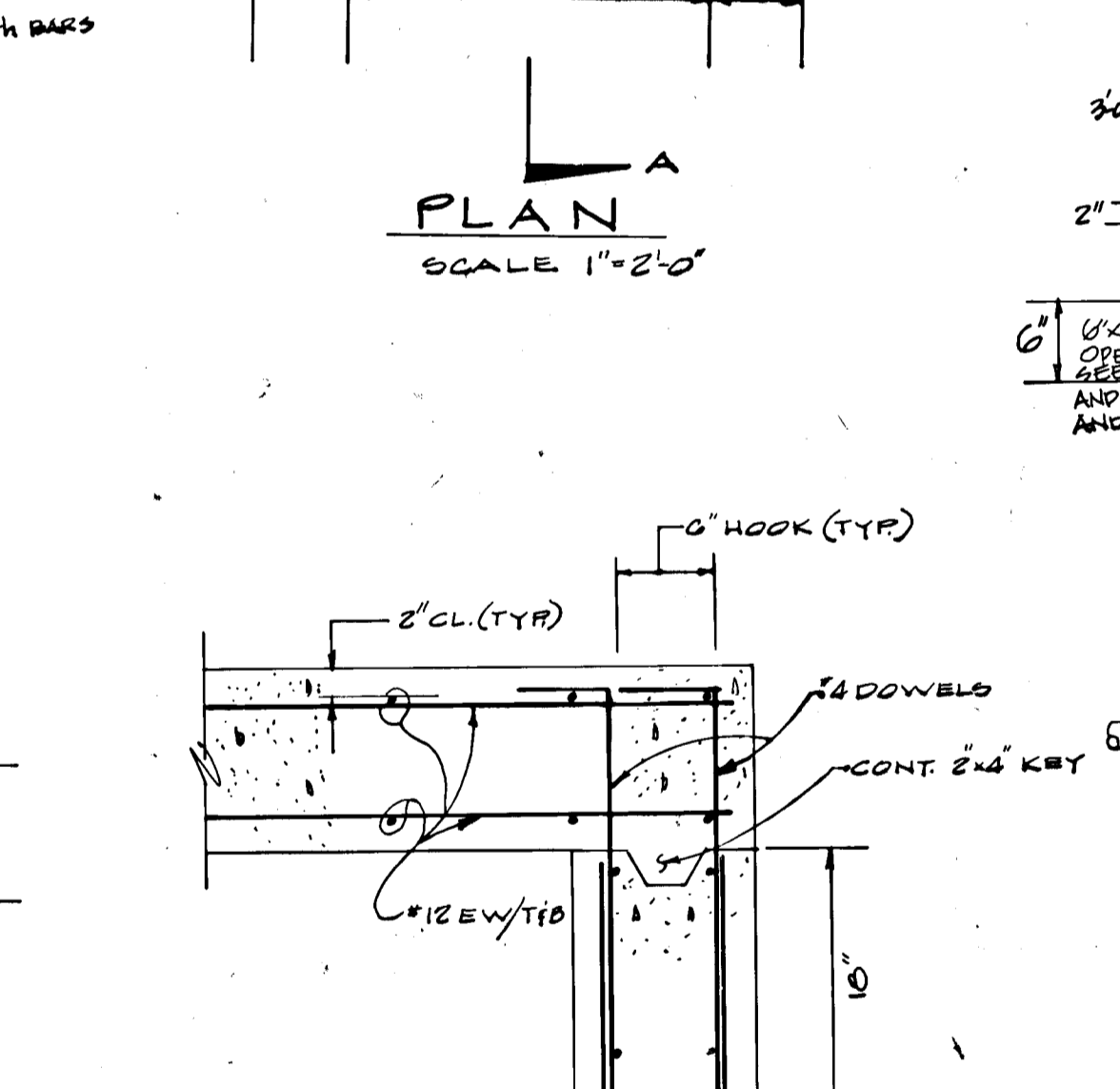
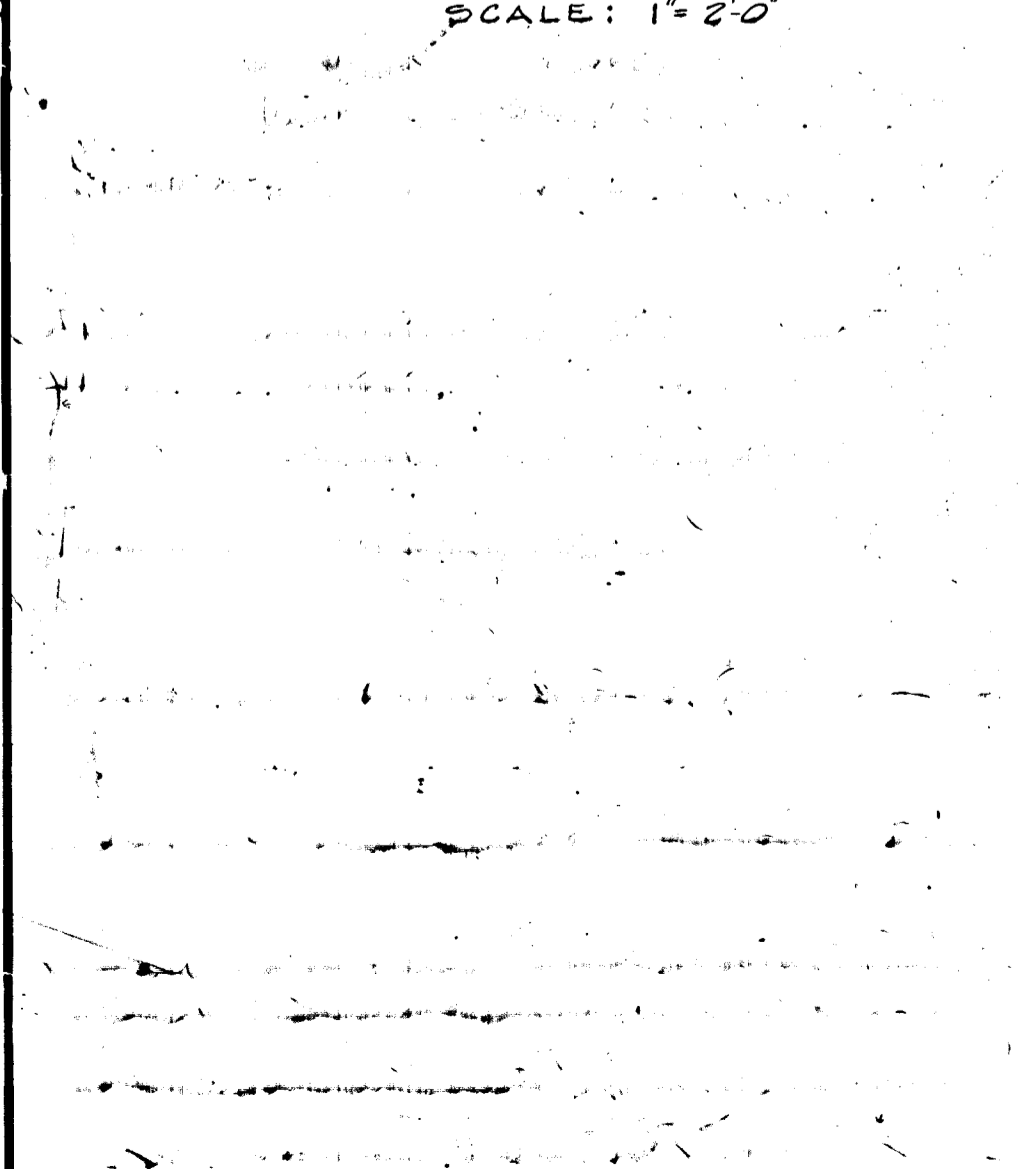
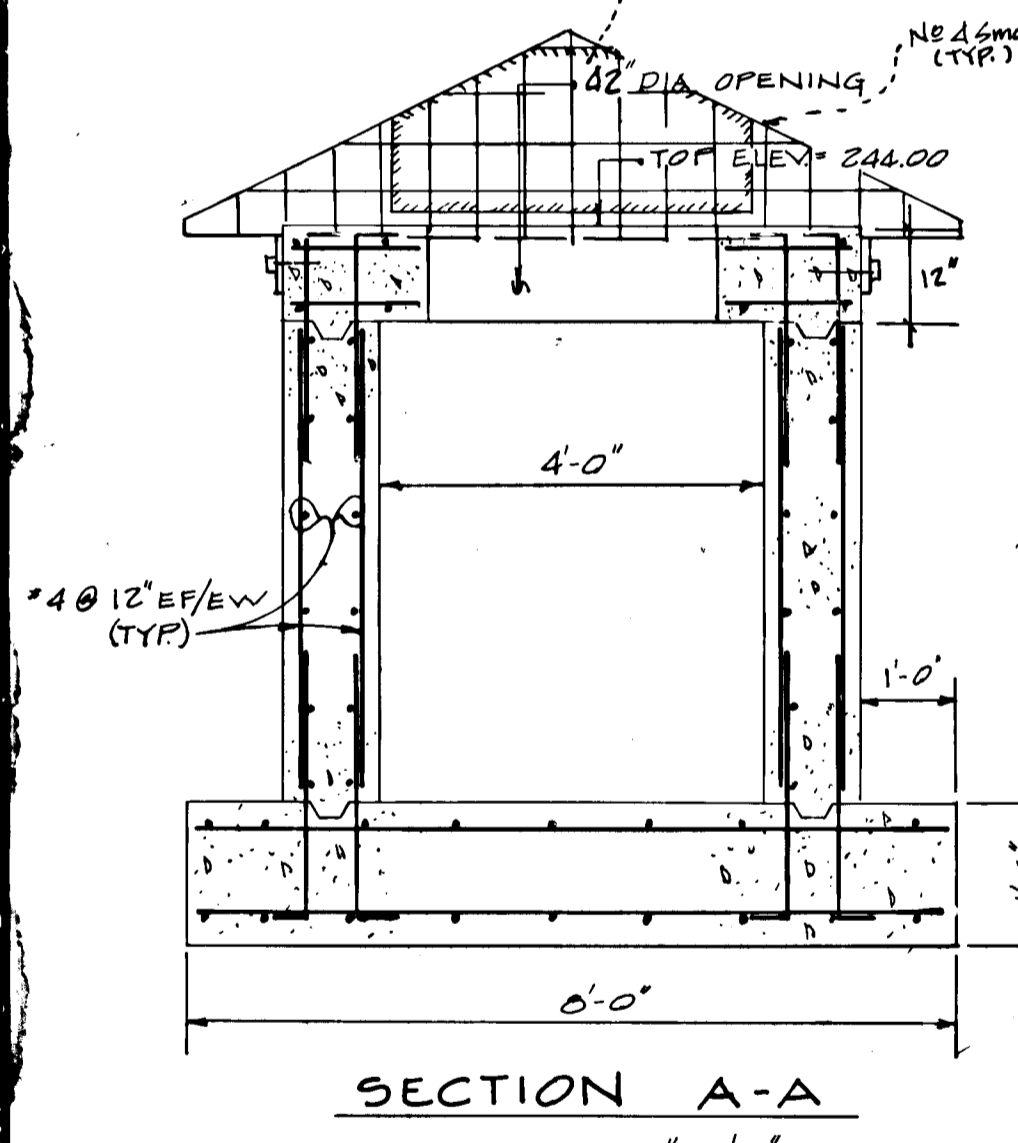
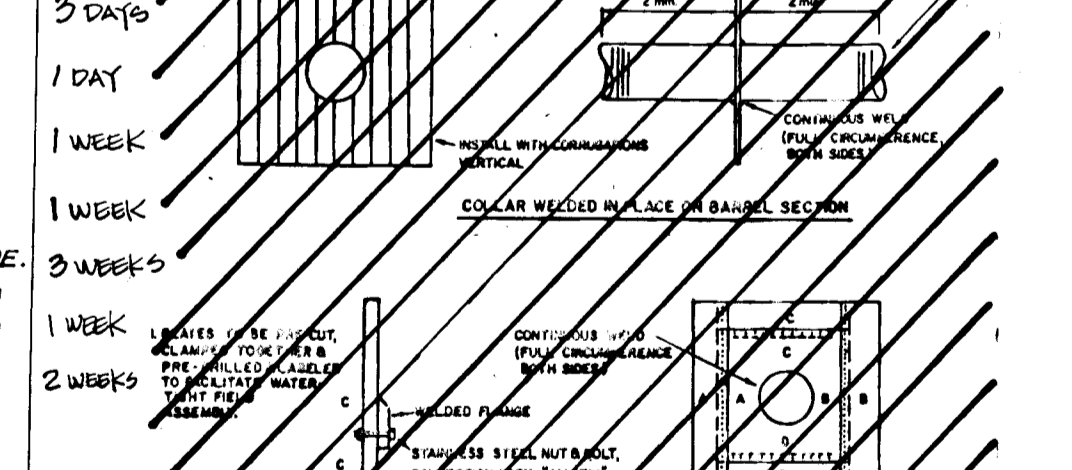
TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
- SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30, AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEAT LOVEGRASS (4.07 LBS/1000 SQ. FT.). APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
- 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.



TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 - PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING, HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL.
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING, HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 14, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (4.05 LBS/1000 SQ. FT.) OF WHEAT LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THROUGH 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 SOO, OPTION (3) SEED WITH 40 LBS PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



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. (318-1855)
- 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 REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - 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 BOARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOO (SEC. 52), TEMPORARY SEEDING MIXTURES (SEC. 53) AND MULCHING (SEC. 54). 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 OPERATION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SOIL ANALYSIS:

TOTAL AREA OF SITE	16.85	ACRES
AREA TO BE MAINTAINED IN OPERATION	2.92	ACRES
AREA TO BE ROOFED OR PAVED	1.04	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.98	ACRES
TOTAL CUT	0.79	CU. YDS
TOTAL FILL	2.13	CU. YDS
OFFSITE WASTE/BORROW AREA LOCATION	SEE PLAN	
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR REPLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR REPLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUIRED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED 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. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
- SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30, AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEAT LOVEGRASS (4.07 LBS/1000 SQ. FT.). APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
- 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.

PERMANENT SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 - PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING, HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL.
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING, HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 14, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (4.05 LBS/1000 SQ. FT.) OF WHEAT LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THROUGH 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 SOO, OPTION (3) SEED WITH 40 LBS PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

REF 201-04, WP 21-05, PB 212, WP 02-105, WP 03-03
SEDIMENT CONTROL NOTES, DETAILS, & SWM DETAILS
PHASE THREE
PLEASANT CHASE
 SECTION ONE
 TAX MAP 43 PARCEL 21,620,623,634
 RESUBDIVISION OF "ONE SPOT HEIGHTS"
 PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
 RESUBDIVISION OF "VILLA HEIGHTS"
 PLAT BOOK 3 FOLIO 45
 BLOCK 'A' (LOTS 4,5,6,7) BLOCK 'D' (LOTS 7,8,9)
 BLOCK 'E' (LOTS 1-4) BLOCK 'F' (LOTS 1-4)
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: 1-92
 SHEET 10 OF 1

9801 Bruken Land Parkway
 Suite 105
 Columbia, Maryland 21046
 Wash. (301) 621-8006
 Balt. (301) 995-6010
 Fax (301) 995-6021