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HOWARD COUNTY

Election District No. 2, Tax Map 31, Lot 150

Tall Maple Court Stream Restoration Project Capital Project D-1158

Storm Water Management Division
Bureau Of Environmental Services

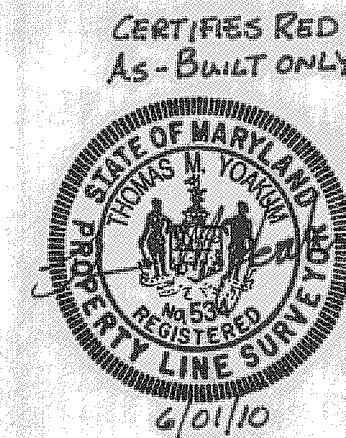
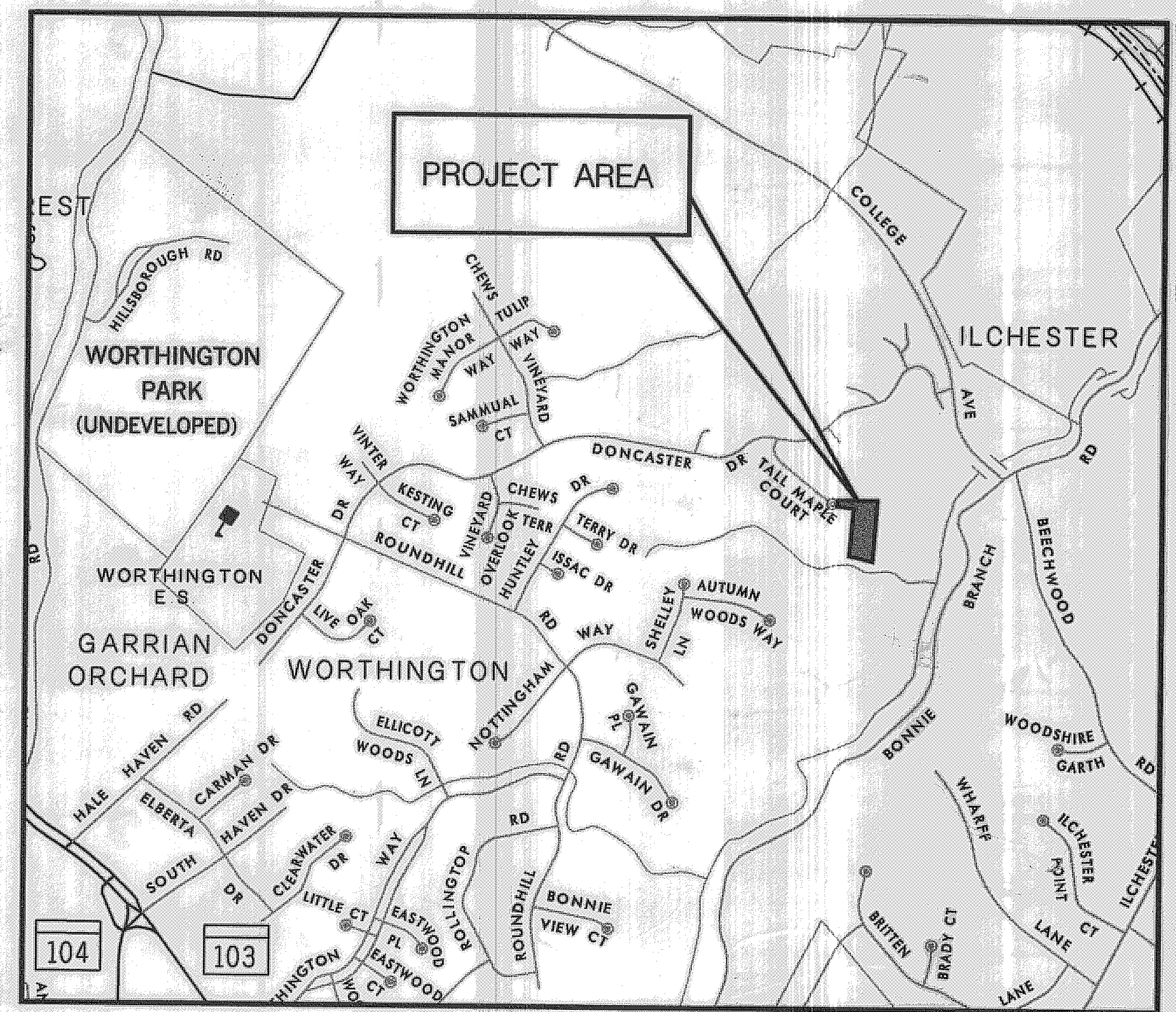
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING DONE.
- THIS PLAN IS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- SURVEY OF THIS SITE WAS PERFORMED BY AB CONSULTANT, INC-MAY 2008
- THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY AB CONSULTANTS INC.
- STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT SINCE THE PROJECT WILL NOT ADD IMPERVIOUS AREA NOR WILL IT CHANGE THE EXISTING HYDROLOGY OF THE SITE.
- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND McCORMICK TAYLOR DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
- THE JOINT PERMIT HAS BEEN OBTAINED FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR THIS PROJECT (PERMIT # 20086464408-NT-3392).
- THE EXISTING INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM THE BEST AVAILABLE SOURCES AND SHALL BE VERIFIED BEFORE STARTING CONSTRUCTION. THE HOWARD COUNTY DOES NOT GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE SHOWN INFORMATION.
- THE CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY. ALL UTILITIES SHALL HAVE A CLEARANCE BY A MINIMUM OF 6 INCHES VERTICALLY AND A MINIMUM OF 5 FEET HORIZONTALLY.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY McCORMICK TAYLOR IMMEDIATELY TO RESOLVE THE SITUATION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- SITE DEVELOPMENT DETAILS ARE REFERENCED FROM THE ORIGINAL SITE DEVELOPMENT PLAN FOR AUTUMN VIEW SECTION (F-99-45)
- DEPARTMENT OF PLANNING AND ZONING WAIVER PETITION (WP-09-109) APPROVED FEBRUARY 13, 2009

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Chris Brooks 7/23/09
HOWARD SOIL CONSERVATION DISTRICT DATE

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Chris Brooks 7/24/09
SIGNATURE OF ENGINEER DATE
CHRIS BROOKS, P.E.
PRINT NAME BELOW SIGNATURE

OWNER / DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
Howard E. Saltzman 7/27/09
SIGNATURE OF OWNER/DEVELOPER DATE
Howard E. Saltzman
PRINT NAME BELOW SIGNATURE



HORIZONTAL DATUM NAD 83 /91
VERTICAL DATUM NAVD 88
SCALE: 1"=1000'
1000 0 1000 2000 FEET

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John A. ... 7/23/09
DIRECTOR OF PUBLIC WORKS DATE
Elizabeth Evelyn & Donah 7/23/09
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE
Howard E. Saltzman 7/27/09
CHIEF, STORMWATER MANAGEMENT DIVISION DATE

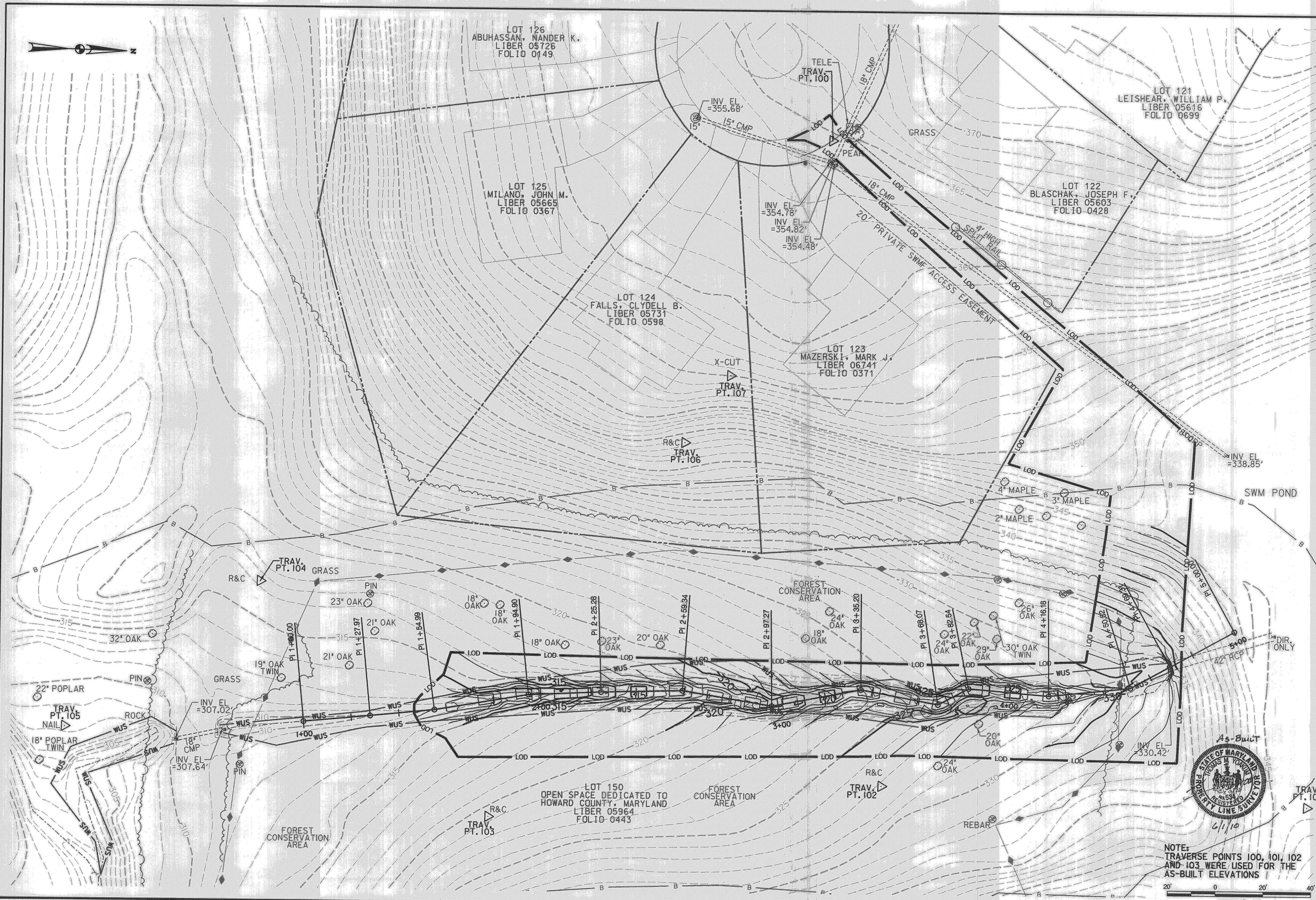
McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

Howard County
MARYLAND
Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6146



DES:	AS-BUILT	4-26-10
AH		
DRN:	MR	
CHK:	CB	
DATE:	7/23/09	
BY	NO.	REVISION
		DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150
TITLE SHEET
SCALE NOT TO SCALE
SHEET 1 OF 13



SURVEY CONTROL			
TRAVERSE PT.	NORTHING	EASTING	ELEVATION
104	574575.3350	1375236.9879	316.42
105	574495.8115	1375300.8595	308.69

ORANGE CONSTRUCTION FENCE			
STA 3+10 TO STA. 4+20	LT	193 LF	
STA 3+20 TO STA.	LT	107 LF	

FILL MATERIALS	
FURNISHED TOPSOIL	88 CY
COMPACTED FILL MATERIAL	38.5 CY
VANE AND FOOTER ROCKS	55 CY
CLASS 0 RIP RAP	70.5 CY

BASELINE CONTROL COORDINATES			
POINT	STATION	NORTHING	EASTING
PI	1+00.00	574595.8225	1375294.9821
PI	1+27.97	574623.5710	1342491.4561
PI	1+54.99	574650.3510	1342508.4384
PI	1+94.90	574689.4680	1342535.5444
PI	2+25.28	574719.7586	1342535.5444
PI	2+59.34	574753.7603	1342591.1237
PI	2+97.27	574791.3728	1342618.6869
PI	3+35.20	574828.3835	1342656.5787
PI	3+68.07	574860.8807	1342692.2590
PI	3+82.54	574873.4182	1342726.8793
PI	4+16.18	574907.0187	1342752.1076
PI	4+50.52	574941.0454	1342808.6267
PI	4+69.31	574957.1937	1342814.7659
PI	5+00.00	574983.5733	1375241.6861

SURVEY CONTROL			
TRAVERSE PT.	NORTHING	EASTING	ELEVATION
100	574807.2016	1375043.1990	364.79
101	575016.8377	1375313.9491	345.34
102	574838.4817	1375312.2367	327.31
103	574674.5668	1375331.5626	320.11
106	574750.5257	1375171.9004	343.84
107	574768.4955	1375143.1943	354.55

LEGEND	
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPERTY LINE
	ACCESS EASEMENT
	75' STREAM BUFFER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	FOREST CONSERVATION AREA BOUNDARY

NOTE:
TRAVERSE POINTS 100, 101, 102
AND 103 WERE USED FOR THE
AS-BUILT ELEVATIONS

SCALE: 1" = 20'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. ... 7/21/09
DIRECTOR OF PUBLIC WORKS DATE

Howard E. ... 7/21/09
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE

Howard E. ... 7/21/09
CHIEF, STORMWATER MANAGEMENT DIVISION DATE

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MARYLAND

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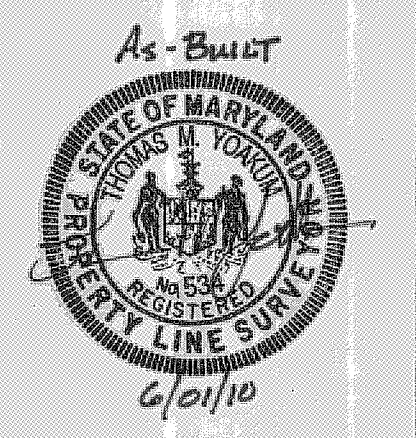
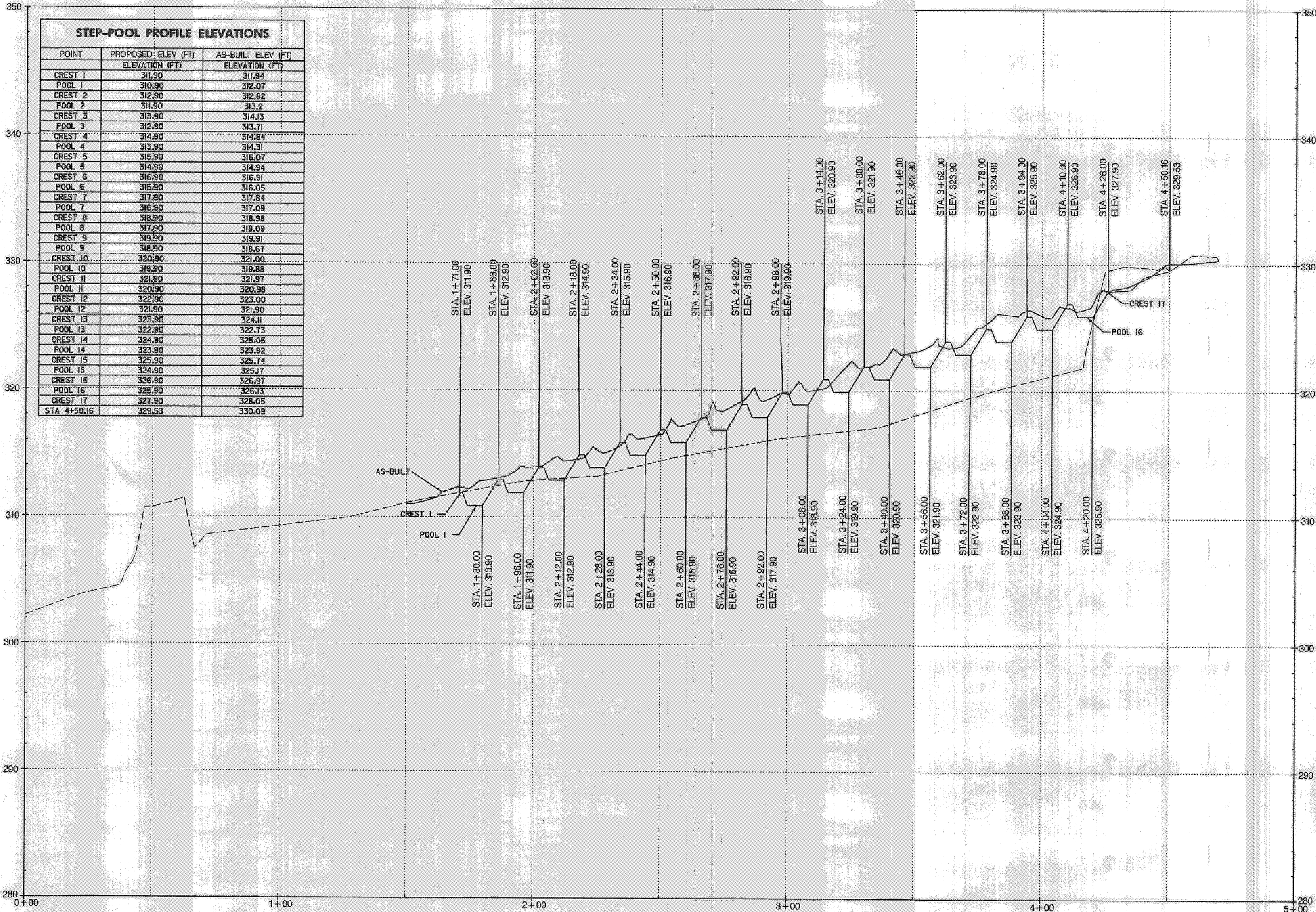
DES: AH	AH	AS-BUILT	4-26-10
DRN: MR			
CHK: CB			
DATE: 7/23/09	BY	NO.	REVISION
			DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

SITE PLAN

SCALE
1" = 20'

SHEET
2 OF 13



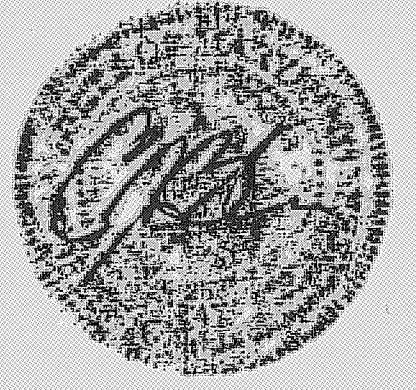
AS-BUILT PROFILE SHOWN FOLLOWS BASELINE CONTROL AND MAY NOT REPRESENT THE DESIGNED CREST AND POOL ELEVATIONS DUE TO ANY LATERAL SHIFTS DURING CONSTRUCTION. REFER TO THE STEP-POOL PROFILE ELEVATIONS FOR COMPARISON. CRESTS AND POOLS ARE DESIGNATED FROM 1 TO 17 STARTING AT THE DOWNSTREAM END OF THE PROJECT.

SCALE: 1"=20' (HOR.)
1"=4' (VER.)

LEGEND	
---	EXISTING
—	PROPOSED

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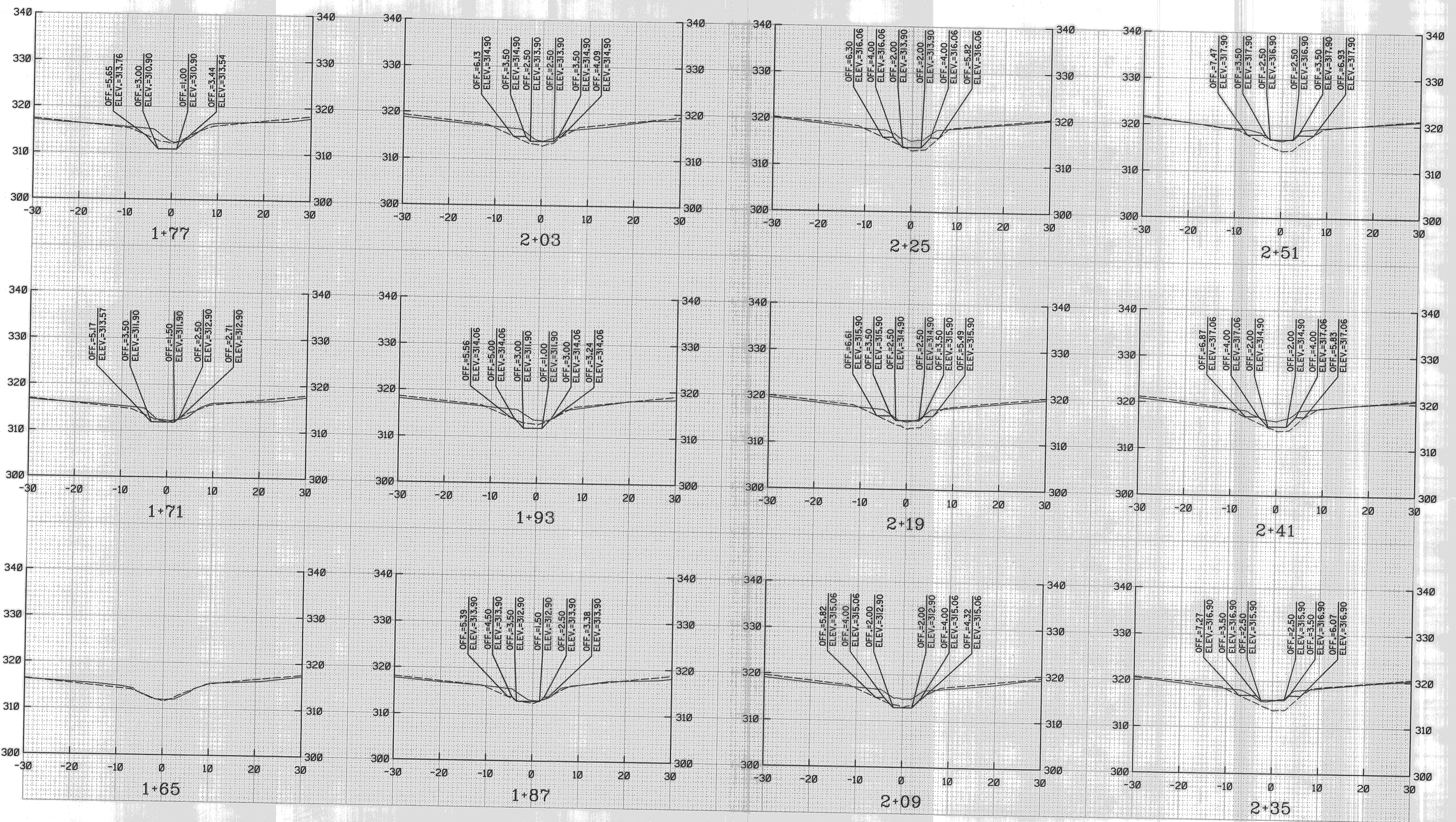


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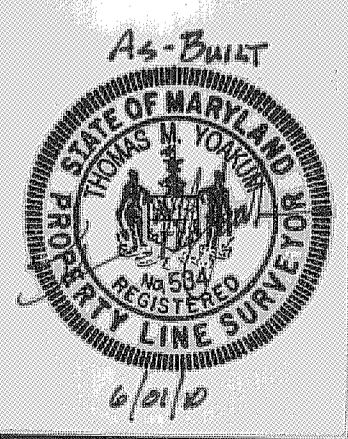
HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

PROFILE

SCALE
AS SHOWN
SHEET
10 OF 13



LEGEND
 --- EXISTING
 — PROPOSED



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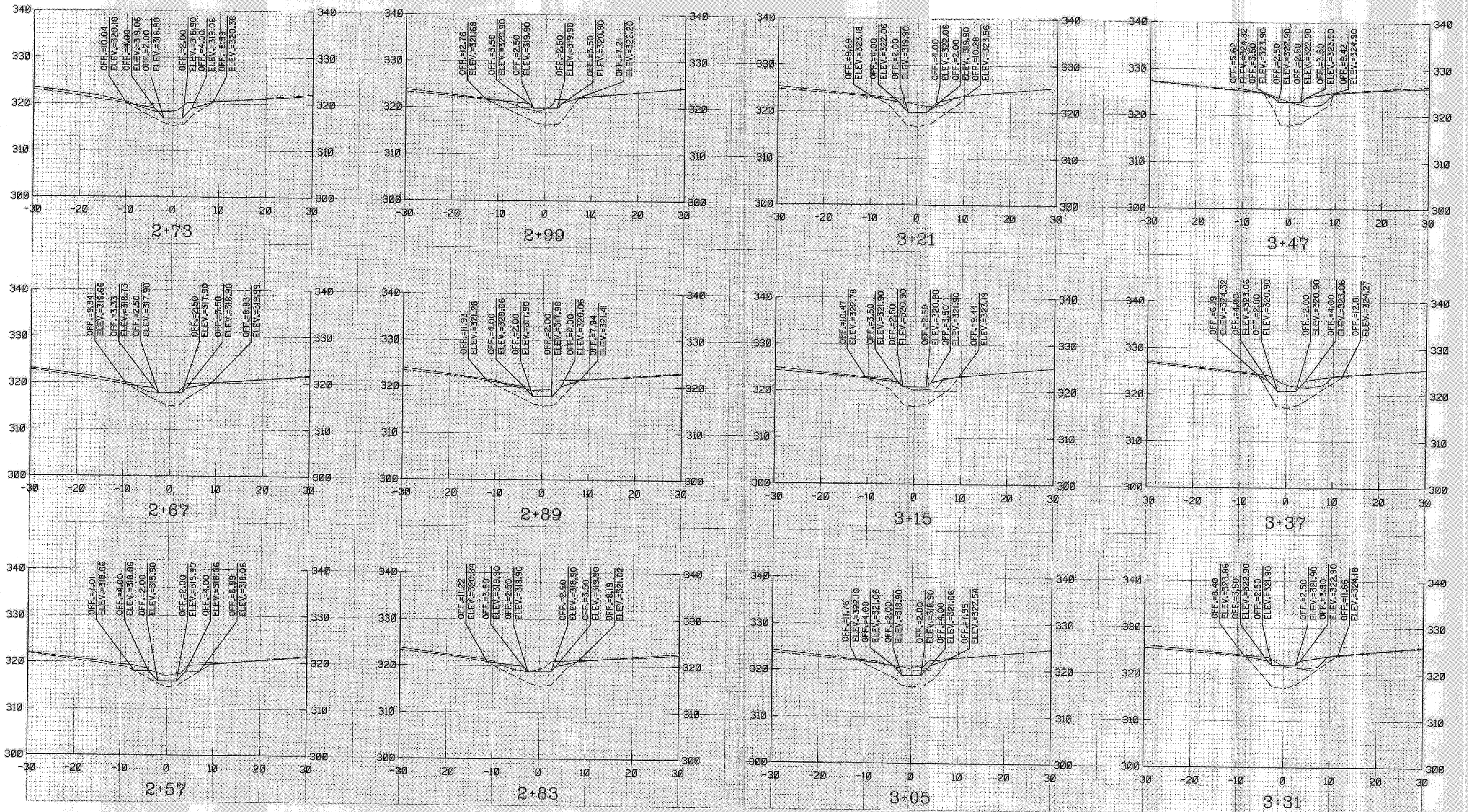


DES: AH	AH	AS-BUILT	4-26-10
DRN: MR			
CHK: CB			
DATE: 7/6/09	BY	NO.	REVISION
			DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM REHABILITATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

CROSS SECTION

SCALE
 1" = 10'
 SHEET
 11 OF 13



LEGEND
 --- EXISTING
 --- PROPOSED



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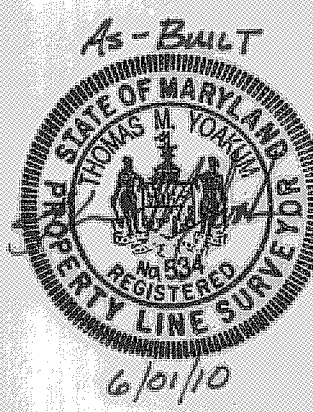
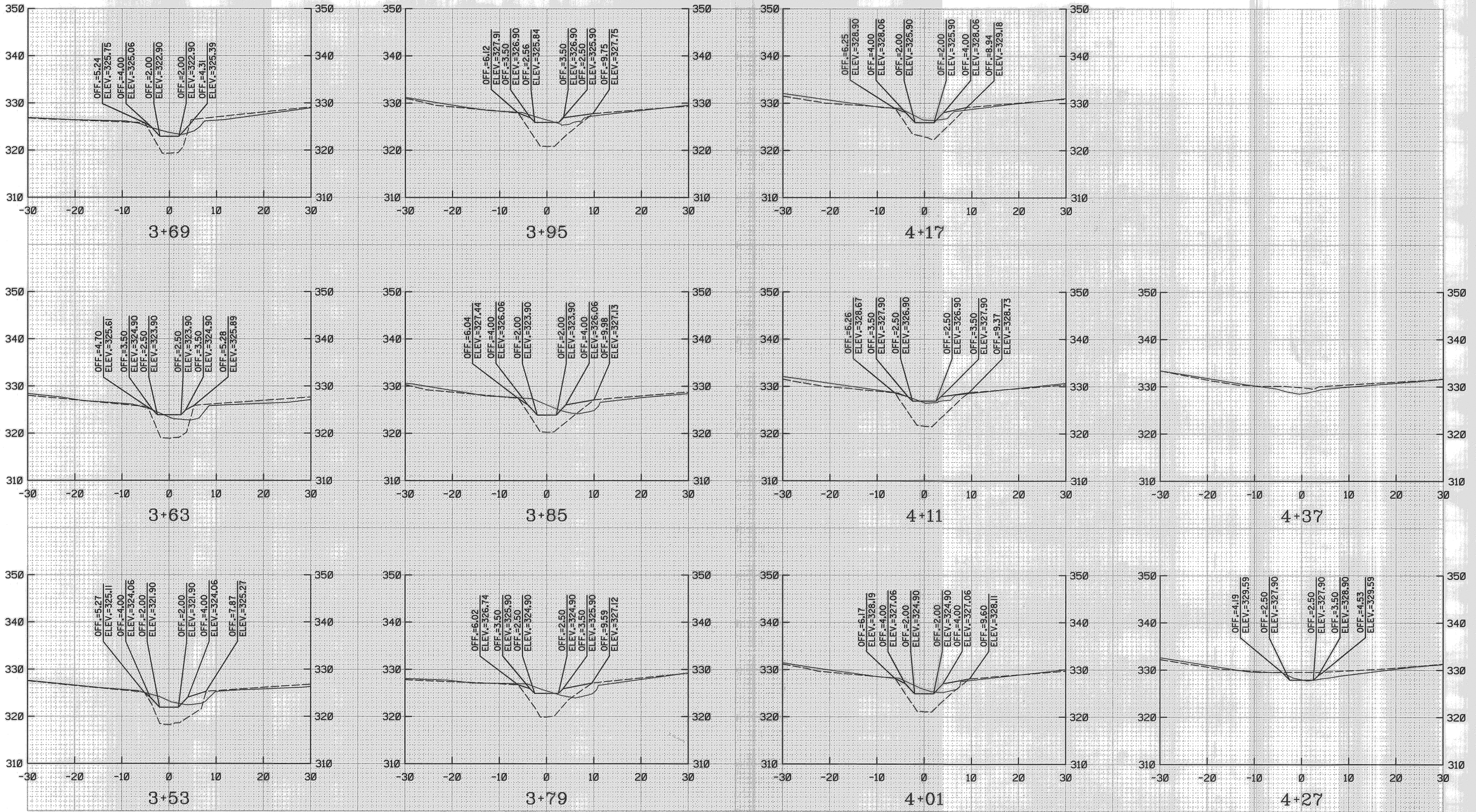


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HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM REHABILITATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

CROSS SECTION

SCALE
 1" = 10'
 SHEET
 12 OF 13



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Taylor**
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6751 Columbia Gateway Drive, Suite 514
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DRN: MR			
CHK: CB			
DATE: 7/6/09	BY	NO.	REVISION
			DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM REHABILITATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

CROSS SECTION

SCALE
1" = 10'
SHEET
13 OF 13

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HOWARD COUNTY

Election District No. 2, Tax Map 31, Lot 150

Tall Maple Court Stream Restoration Project Capital Project D-1158

Storm Water Management Division
Bureau Of Environmental Services

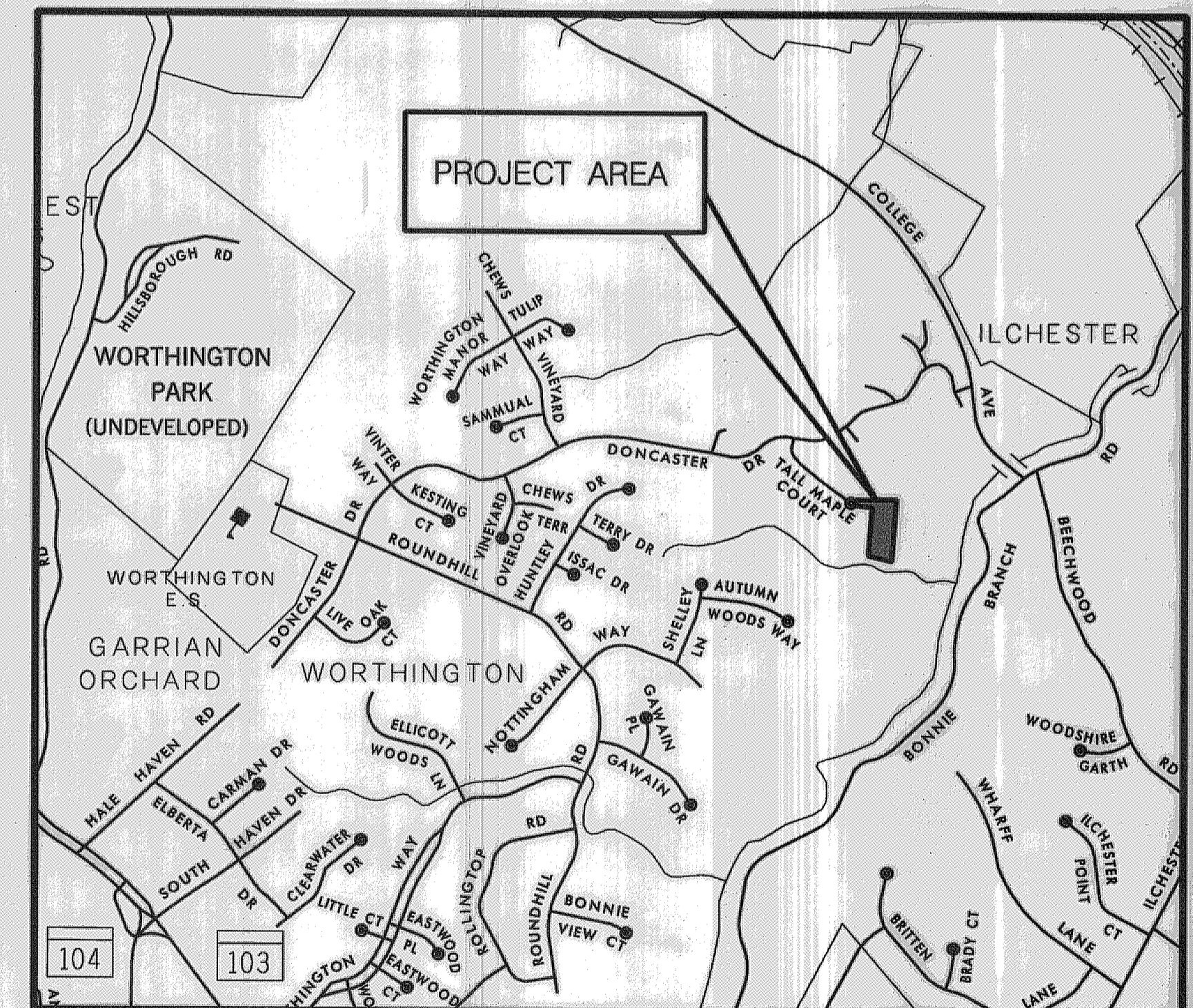
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[Signature] 7/27/09
HOWARD SOIL CONSERVATION DISTRICT DATE

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[Signature] 7/24/09
SIGNATURE OF ENGINEER CHRIS BROOKS, P.E. DATE
(PRINT NAME BELOW SIGNATURE)

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[Signature] 7/27/09
SIGNATURE OF OWNER/DEVELOPER Howard E. Saltzman DATE
(PRINT NAME BELOW SIGNATURE)

GENERAL NOTES

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 7/27/09
DIRECTOR OF PUBLIC WORKS DATE
[Signature] 7/27/09
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE
[Signature] 7/27/09
CHIEF, STORMWATER MANAGEMENT DIVISION DATE

McCormick Taylor
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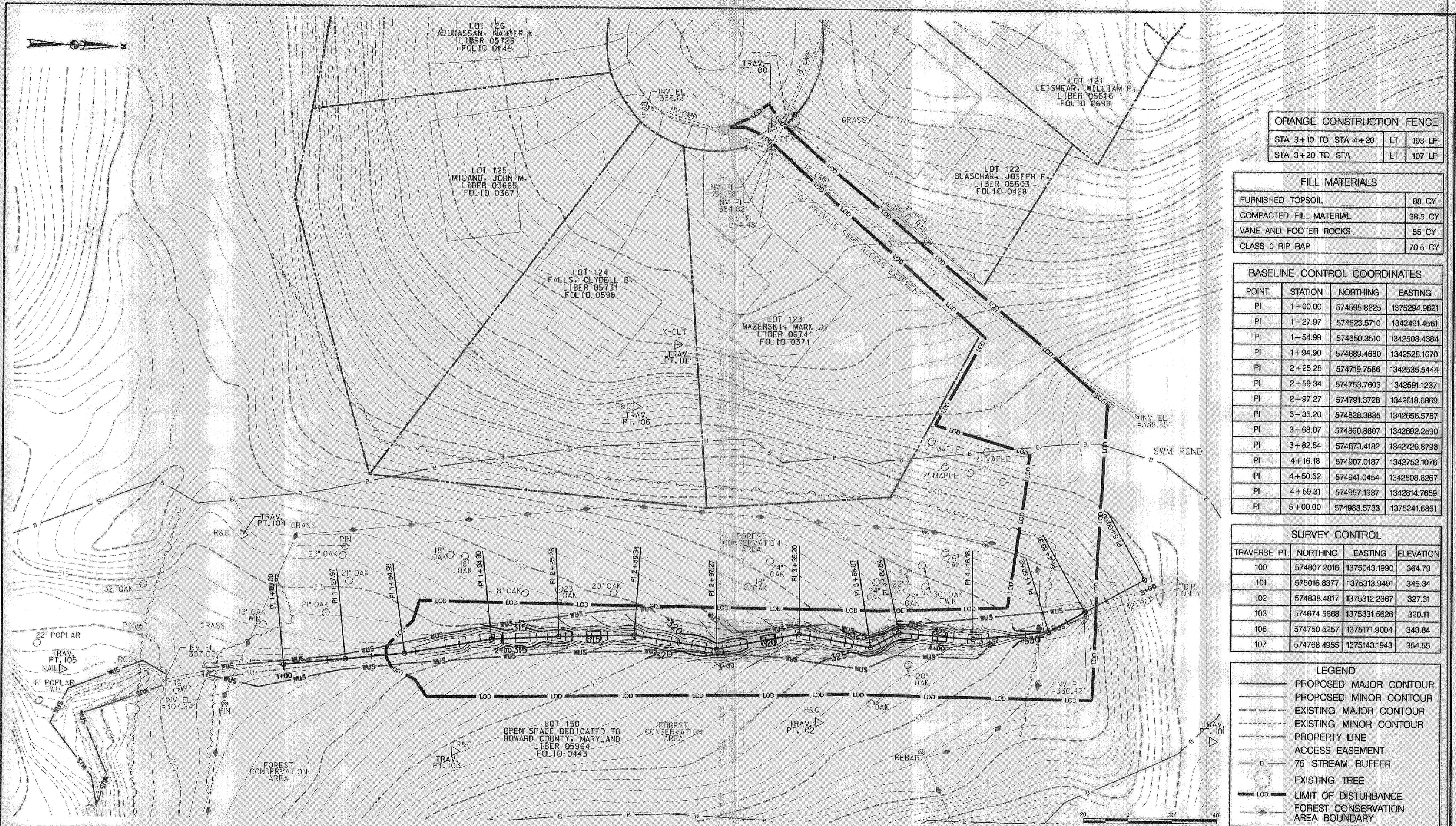
Howard County
MARYLAND
Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6146

DES: AH				
DRN: MR				
CHK: CB				
DATE: 7/23/09	BY	NO.	REVISION	DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

TITLE SHEET

SCALE NOT TO SCALE
SHEET 1 OF 13



ORANGE CONSTRUCTION FENCE		
STA 3+10 TO STA. 4+20	LT	193 LF
STA 3+20 TO STA.	LT	107 LF

FILL MATERIALS	
FURNISHED TOPSOIL	88 CY
COMPACTED FILL MATERIAL	38.5 CY
VANE AND FOOTER ROCKS	55 CY
CLASS 0 RIP RAP	70.5 CY

BASELINE CONTROL COORDINATES			
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PI	5+00.00	574983.5733	1375241.6861

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101	575016.8377	1375313.9491	345.34
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106	574750.5257	1375171.9004	343.84
107	574768.4955	1375143.1943	354.55

LEGEND	
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPERTY LINE
	ACCESS EASEMENT
	75' STREAM BUFFER
	EXISTING TREE
	LIMIT OF DISTURBANCE
	FOREST CONSERVATION AREA BOUNDARY

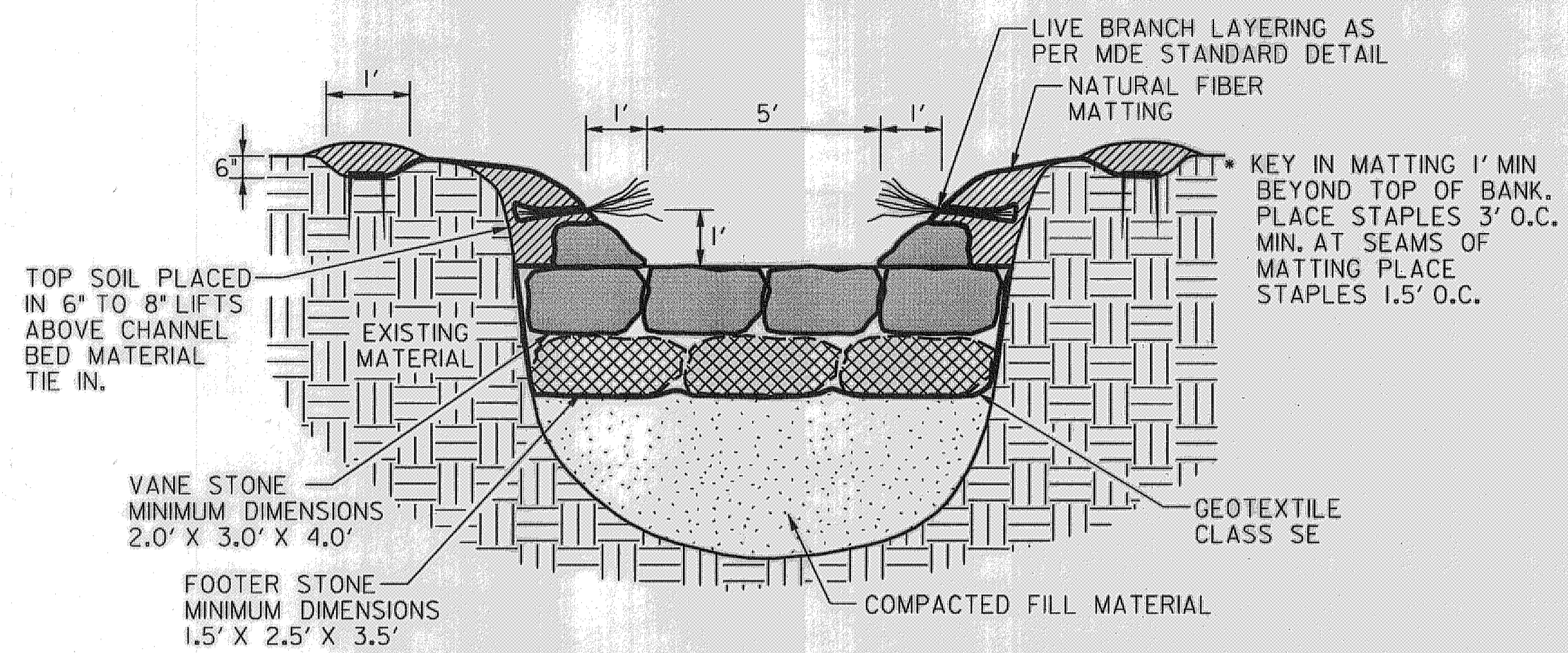
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *John A. Saltzman* 7/27/09
 Chief, Bureau of Environmental Services: *William E. Dine* 7/27/09
 Chief, Stormwater Management Division: *Howard E. Saltzman* 7/27/09

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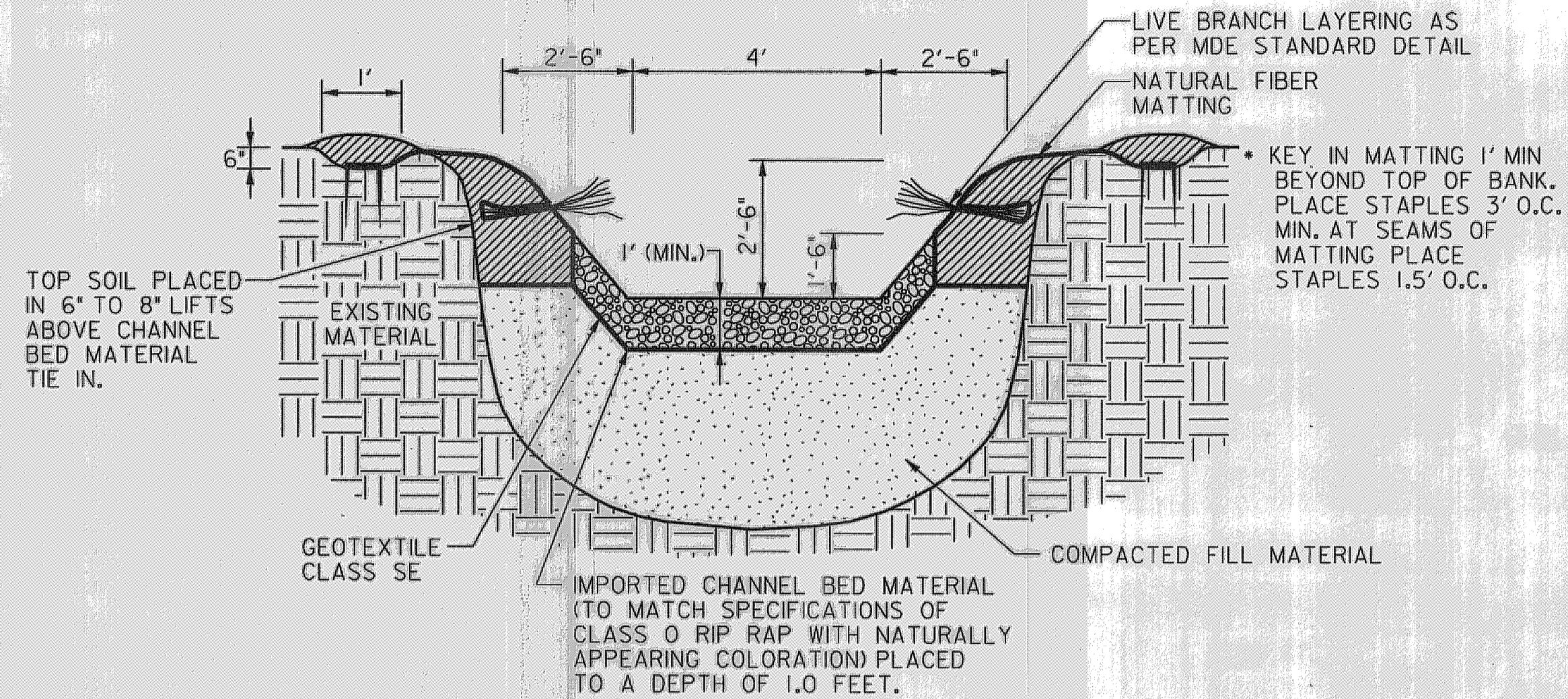
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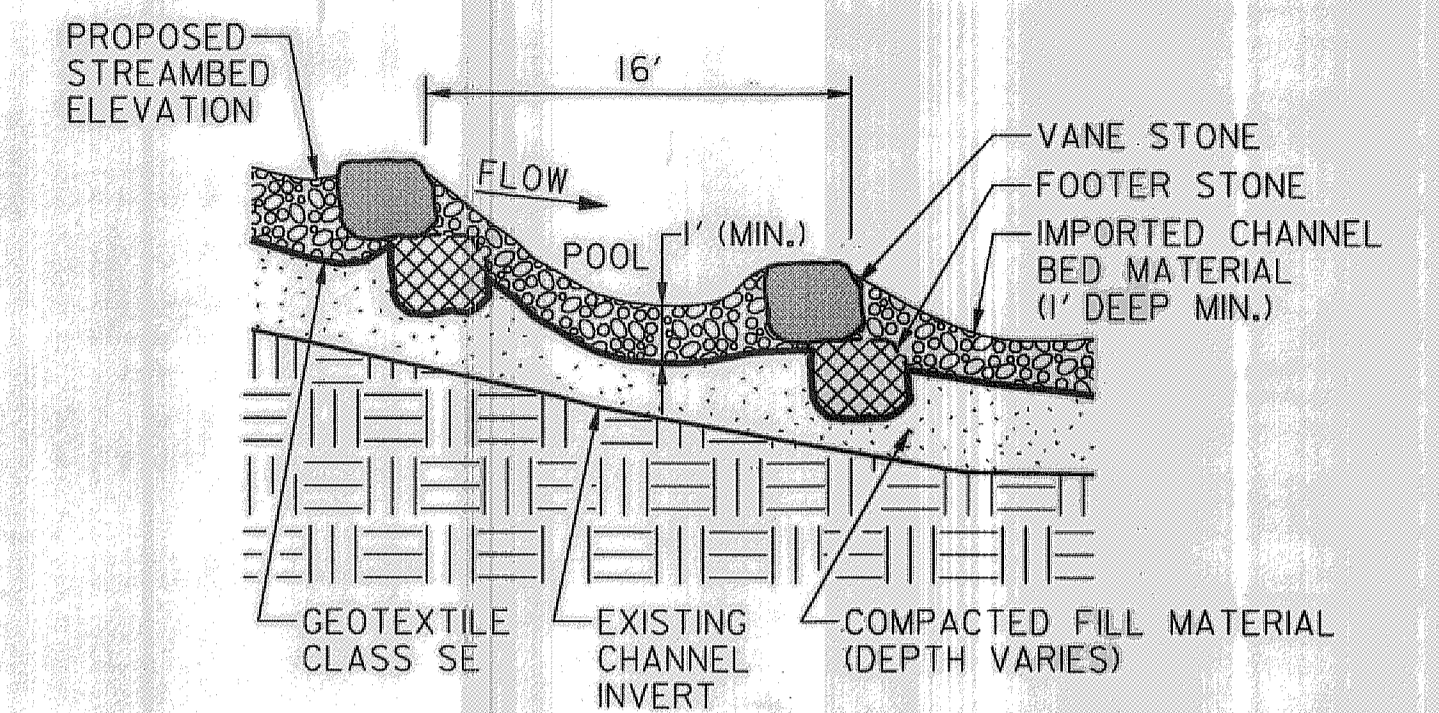
HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
 TALL MAPLE COURT STREAM RESTORATION PROJECT
 CAPITAL PROJECT D-1158
 ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
 TAX MAP 31; LOT 150
SITE PLAN
 SCALE: 1" = 20'
 SHEET: 2 OF 13



**STEP-CREST
CROSS SECTION VIEW**
(NOT TO SCALE)

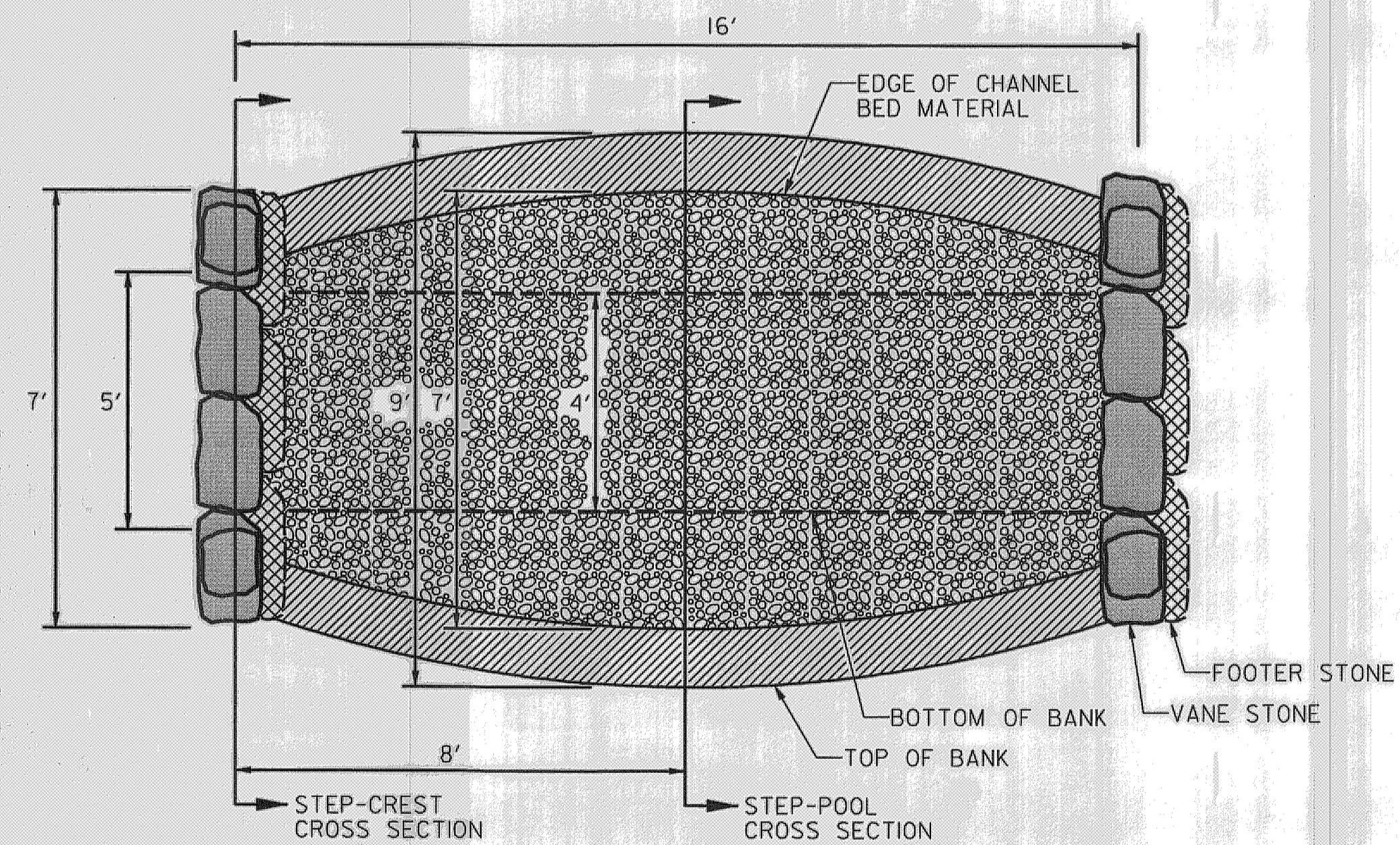
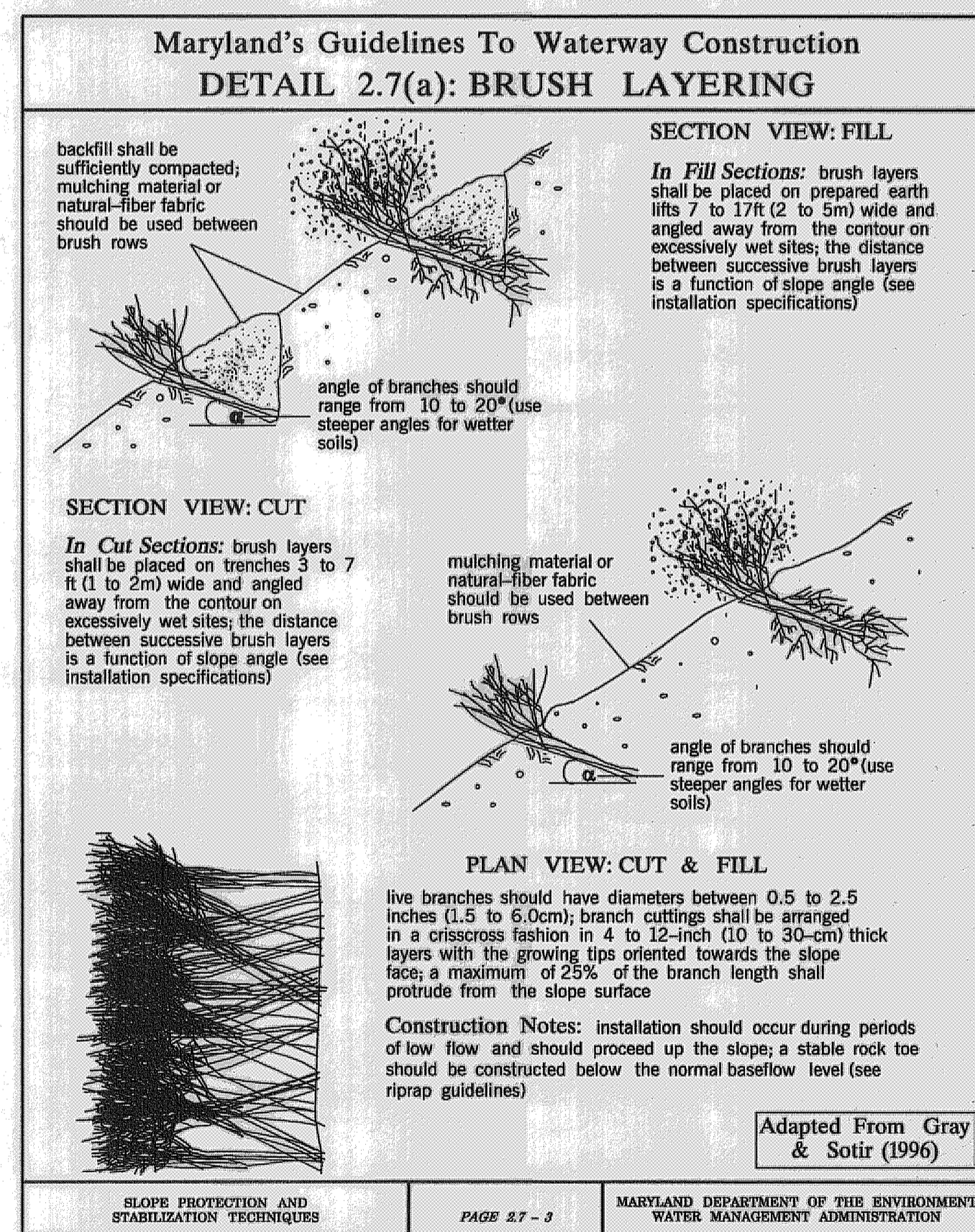


**STEP-POOL
CROSS SECTION VIEW**
(NOT TO SCALE)



SEE PROFILE FOR EXACT DIMENSIONS OF STRUCTURES

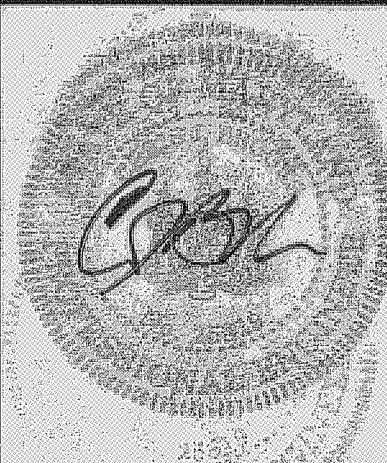
**STEP-POOL STRUCTURES
PROFILE VIEW**
(NOT TO SCALE)



**STEP-POOL STRUCTURES
TYPICAL PLAN VIEW**
(NOT TO SCALE)

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(410) 662-7400

**Howard County
MARYLAND**
Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6146

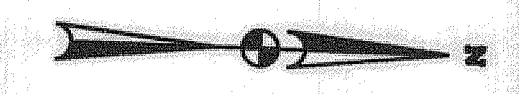


DES: AH					
DRN: MR					
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**HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150**

TYPICAL DETAILS

SCALE
AS
SHOWN
SHEET
3 OF 13



GENERAL NOTES:

1. TYPICAL PUMP AROUND SHOWN. ACTUAL SANDBAG PLACEMENT SHALL BE BASED ON THE LENGTH OF THE CHANNEL THAT THE CONTRACTOR IS ABLE TO STABILIZE AT THE END OF THE WORK DAY. WORK AND PUMP AROUND STAGING AND UPSTREAM TO DOWNSTREAM.
2. DISTURBED AREAS WITHIN THE 75' STREAM BUFFER SHALL BE STABILIZED WITH SOIL STABILIZATION MATTING. AREAS WITHIN THE LOD THAT REMAIN UNDISTURBED AT THE COMPLETION OF WORK MAY NOT REQUIRE MATTING. THIS SHALL BE DETERMINED AS THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
3. CONTRACTOR SHALL NOT DISTURB ANY TREES WITHIN THE LOD THAT ARE GREATER THAN 6" DBH UNLESS NOTED ON THE PLAN.

TIME RESTRICTION NOTES:

1. PUMPING IS NOT PERMITTED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, MONDAY THROUGH FRIDAY.
2. CONSTRUCTION EQUIPMENT SHALL NOT BE STARTED NOR RUN BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, MONDAY THROUGH FRIDAY.
3. FOR SATURDAY WORK, THE ABOVE HOURS SHALL BE 5:00 PM AND 9:00 AM, RESPECTIVELY.
4. NO WORK SHALL BE DONE ON SUNDAY.

ENGINEER'S CERTIFICATE

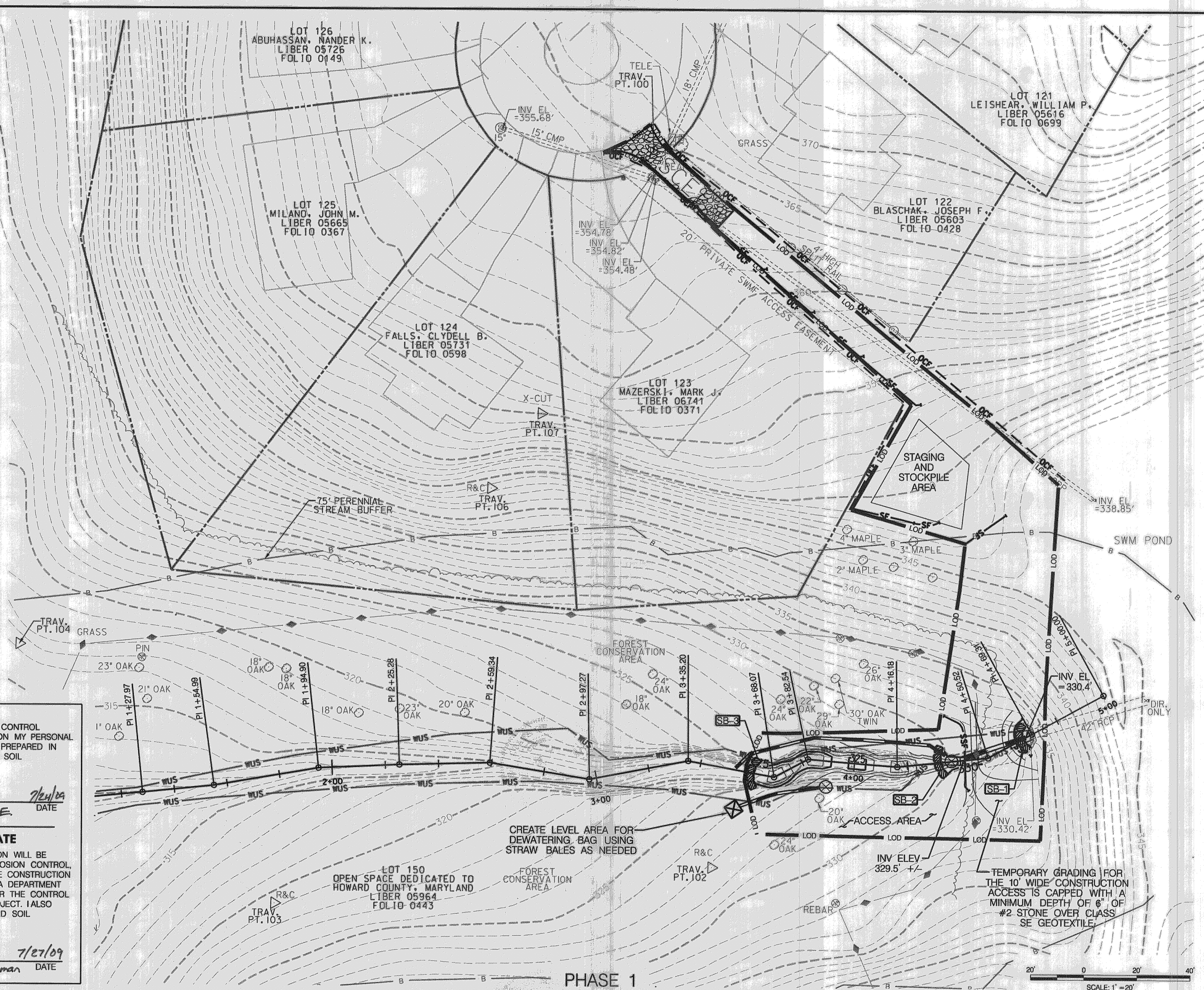
"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *Chris Brooks, PE* DATE: 7/24/09

OWNER / DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *Howard E. Saltzman* DATE: 7/27/09



SUPER SILT FENCE			
STA 4+33 TO STA. 4+32	0' LT	33 LF	
STA 4+65 TO STA. 4+69	0' LT	18 LF	

SILT FENCE			
STA 3+02 TO STA. 4+25	235' LT	154 LF	
STA 3+94 TO STA. 4+33	96' LT	34 LF	
STA 4+75 TO STA. 5+00	77' LT	19 LF	

DEWATERING BAG	
QTY 1	

DEWATERING PUMP	
QTY 2	

* SAND BAG DAM TO BE RESET IN PHASES 2-4

SAND BAG DAM*		
SB-1	STA 4+63	10 LF
SB-2	STA 4+32	10 LF
SB-3	STA 3+60	10 LF

18" CORRUGATED METAL PIPE		
STA 4+41 TO STA. 4+66	2' LT	25 LF

#2 STONE	
STA 4+50	8 CY

STABILIZED CONSTRUCTION ENTRANCE	
STA 3+25, 224' LT.	- 35 TONS

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPERTY LINE
- ACCESS EASEMENT
- SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- WATERS OF THE US
- 75' STREAM BUFFER
- ORANGE CONSTRUCTION FENCE
- FOREST CONSERVATION AREA BOUNDARY
- EXISTING TREE
- 18" CORRUGATED METAL PIPE SANDBAG DAM
- DEWATERING BAG
- DEWATERING PUMP
- STABILIZED CONSTRUCTION ENTRANCE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

Signature: *[Signature]* DATE: 7/27/09

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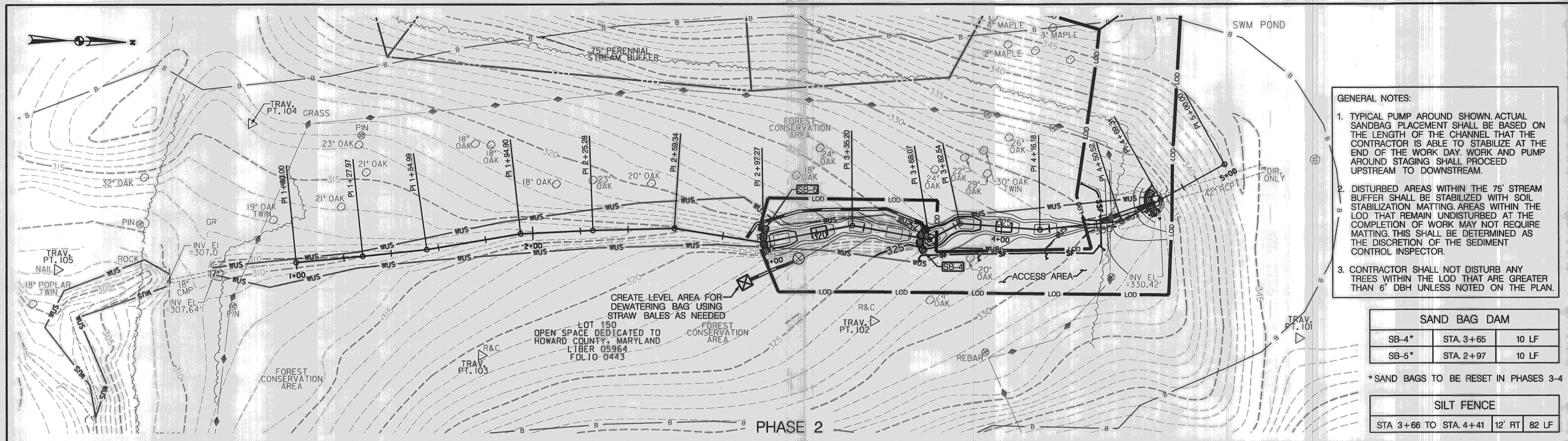
Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6146

DES: AH					
DRN: MR					
CHK: CB					
DATE: 7/23/09	BY	NO.	REVISION	DATE	

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

EROSION AND SEDIMENT CONTROL PLAN
PHASE 1

SCALE: 1" = 20'
SHEET: 4 OF 13

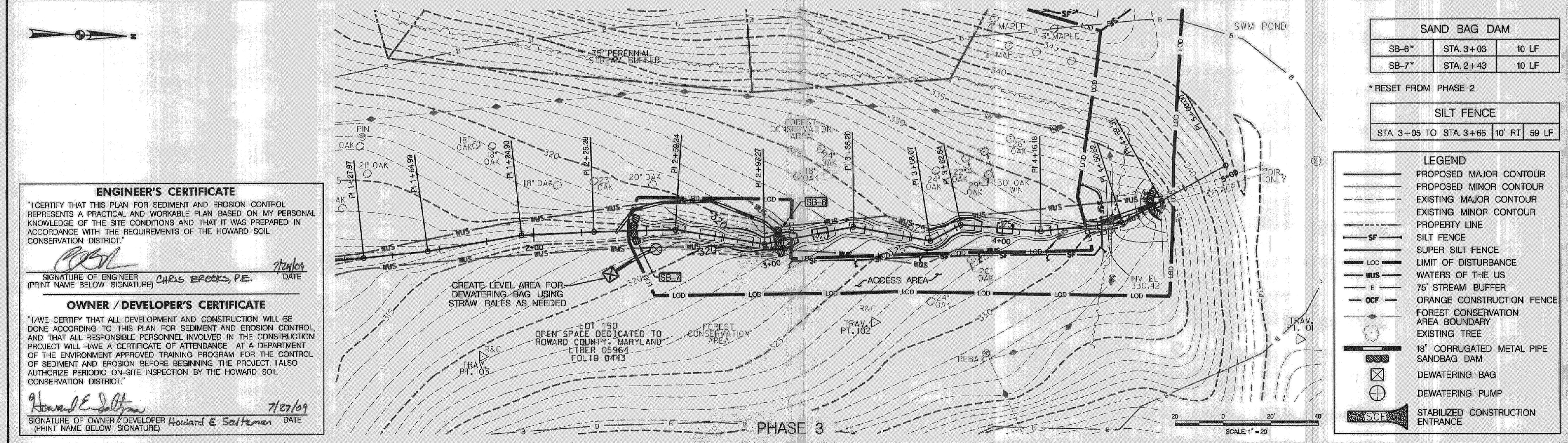


- GENERAL NOTES:**
1. TYPICAL PUMP AROUND SHOWN. ACTUAL SANDBAG PLACEMENT SHALL BE BASED ON THE LENGTH OF THE CHANNEL THAT THE CONTRACTOR IS ABLE TO STABILIZE AT THE END OF THE WORK DAY. WORK AND PUMP AROUND STAGING SHALL PROCEED UPSTREAM TO DOWNSTREAM.
 2. DISTURBED AREAS WITHIN THE 75' STREAM BUFFER SHALL BE STABILIZED WITH SOIL STABILIZATION MATTING. AREAS WITHIN THE LOD THAT REMAIN UNDISTURBED AT THE COMPLETION OF WORK MAY NOT REQUIRE MATTING. THIS SHALL BE DETERMINED AS THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
 3. CONTRACTOR SHALL NOT DISTURB ANY TREES WITHIN THE LOD THAT ARE GREATER THAN 6" DBH UNLESS NOTED ON THE PLAN.

SAND BAG DAM		
SB-4*	STA. 3+65	10 LF
SB-5*	STA. 2+97	10 LF

* SAND BAGS TO BE RESET IN PHASES 3-4

SILT FENCE		
STA 3+66 TO STA. 4+41	12' RT	82 LF



SAND BAG DAM		
SB-6*	STA. 3+03	10 LF
SB-7*	STA. 2+43	10 LF

* RESET FROM PHASE 2

SILT FENCE		
STA 3+05 TO STA. 3+66	10' RT	59 LF

- LEGEND**
- PROPOSED MAJOR CONTOUR
 - - - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - PROPERTY LINE
 - SF — SILT FENCE
 - SUPER SILT FENCE
 - LOD — LIMIT OF DISTURBANCE
 - WUS — WATERS OF THE US
 - B — 75' STREAM BUFFER
 - OCF — ORANGE CONSTRUCTION FENCE
 - FCBA — FOREST CONSERVATION AREA BOUNDARY
 - EXISTING TREE
 - 18" CORRUGATED METAL PIPE
 - SANDBAG DAM
 - DEWATERING BAG
 - DEWATERING PUMP
 - SCE — STABILIZED CONSTRUCTION ENTRANCE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: Chris Brooks, P.E. DATE: 7/24/09

OWNER / DEVELOPER'S CERTIFICATE

"I/AWE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: Howard E. Saltzman DATE: 7/27/09

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

Signature: [] DATE: 7/27/09

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Howard County
MARYLAND

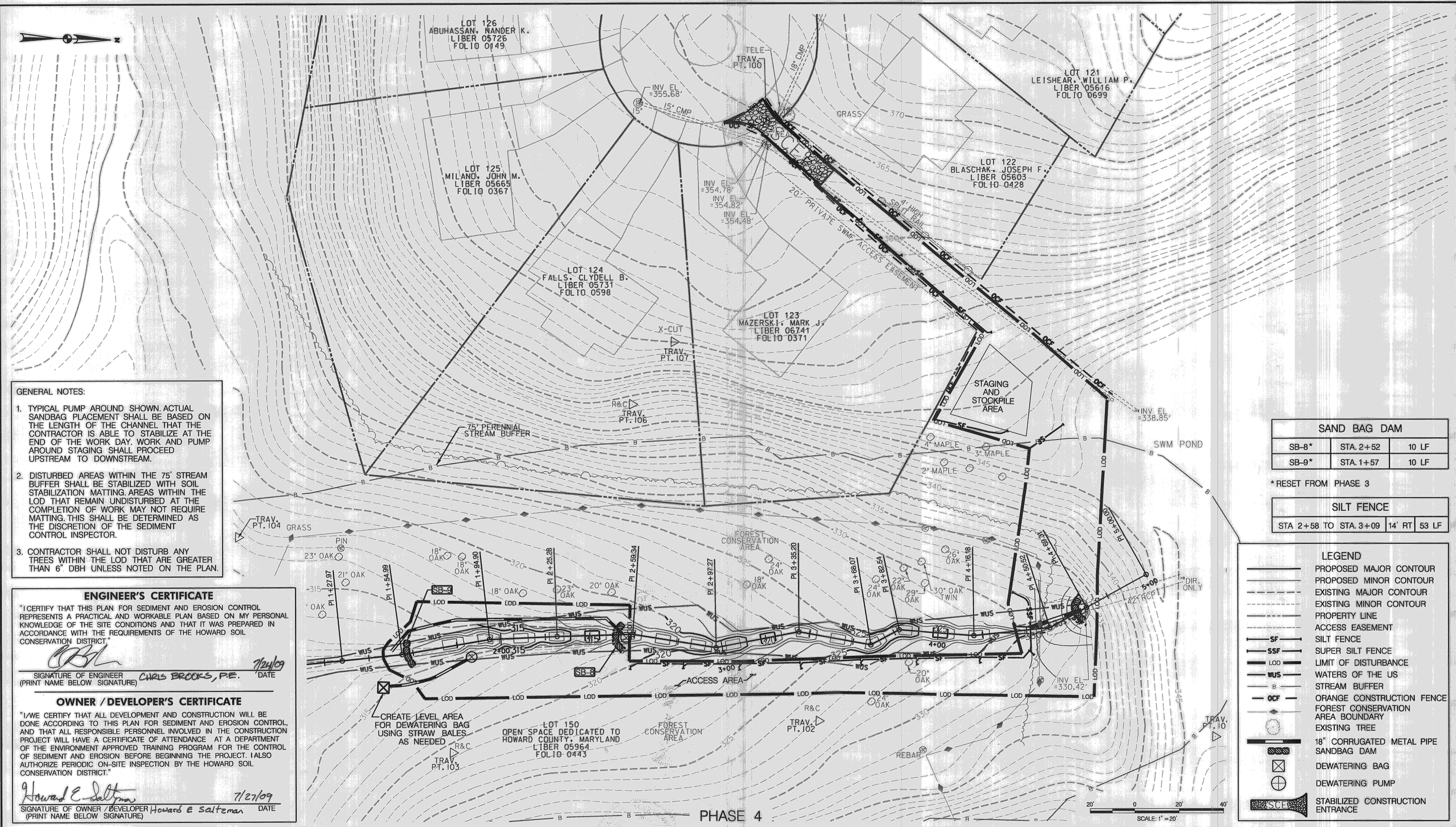
Storm Water Management Division
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DES. AH				
DRN. MR				
CHK. CB				
DATE: 7/23/09	BY	NO.	REVISION	DATE

HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

EROSION AND SEDIMENT CONTROL PLAN
PHASE 2 & PHASE 3

SCALE: 1" = 20'
SHEET: 5 OF 13



- GENERAL NOTES:**
1. TYPICAL PUMP AROUND SHOWN. ACTUAL SANDBAG PLACEMENT SHALL BE BASED ON THE LENGTH OF THE CHANNEL THAT THE CONTRACTOR IS ABLE TO STABILIZE AT THE END OF THE WORK DAY. WORK AND PUMP AROUND STAGING SHALL PROCEED UPSTREAM TO DOWNSTREAM.
 2. DISTURBED AREAS WITHIN THE 75' STREAM BUFFER SHALL BE STABILIZED WITH SOIL STABILIZATION MATTING. AREAS WITHIN THE LOD THAT REMAIN UNDISTURBED AT THE COMPLETION OF WORK MAY NOT REQUIRE MATTING. THIS SHALL BE DETERMINED AS THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
 3. CONTRACTOR SHALL NOT DISTURB ANY TREES WITHIN THE LOD THAT ARE GREATER THAN 6" DBH UNLESS NOTED ON THE PLAN.

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SIGNATURE OF ENGINEER *Chris Brooks, P.E.* DATE 7/24/09
 (PRINT NAME BELOW SIGNATURE)

OWNER / DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF OWNER / DEVELOPER *Howard E. Saltzman* DATE 7/27/09
 (PRINT NAME BELOW SIGNATURE)

SAND BAG DAM		
SB-8*	STA. 2+52	10 LF
SB-9*	STA. 1+57	10 LF

* RESET FROM PHASE 3

SILT FENCE		
	STA 2+58 TO STA. 3+09	14' RT 53 LF

- LEGEND**
- PROPOSED MAJOR CONTOUR
 - - - PROPOSED MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - PROPERTY LINE
 - - - ACCESS EASEMENT
 - - - SILT FENCE
 - - - SF SUPER SILT FENCE
 - - - LOD LIMIT OF DISTURBANCE
 - - - WUS WATERS OF THE US
 - - - B STREAM BUFFER
 - - - OCF ORANGE CONSTRUCTION FENCE
 - - - FCA FOREST CONSERVATION AREA BOUNDARY
 - EXISTING TREE
 - ⊗ 18" CORRUGATED METAL PIPE SANDBAG DAM
 - ⊗ DEWATERING BAG
 - ⊕ DEWATERING PUMP
 - ⊗ SCE STABILIZED CONSTRUCTION ENTRANCE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

SIGNATURE *Howard E. Saltzman* DATE 7/27/09
 HOWARD SCD

McCormick Taylor
 Engineers & Planners Since 1946

Howard County
 MARYLAND

Storm Water Management Division
 Bureau of Environmental Services
 6751 Columbia Gateway Drive, Suite 514
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HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
 TALL MAPLE COURT STREAM RESTORATION PROJECT
 CAPITAL PROJECT D-1158
 ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
 TAX MAP 31; LOT 150

EROSION AND SEDIMENT CONTROL PLAN
PHASE 4

SCALE 1" = 20'
 SHEET 6 OF 13

EROSION AND SEDIMENT CONTROL – GENERAL NOTES

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

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

SEEDING: – FOR PERIODS MARCH 1 – APRIL 30 AND FROM AUGUST 15 – OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 – AUGUST 14, SEED WITH 3 LBS / ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 FT.). FOR THE PERIOD NOVEMBER 16 – FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/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/ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED WEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL. NO ASPHALT EMULSION SHALL BE USED FOR ANCHORING. ONLY A NON-TOXIC, LATEX BACKING MATERIAL IS ALLOWED.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880 A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY THE HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900 AND MARYLAND DEPARTMENT OF ENVIRONMENT INSPECTOR AT (301) 665-2850, FIVE (5) DAYS BEFORE ANY LAND DISTURBING ACTIVITY.
3. ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED WHERE INDICATED ON THE PLANS. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRECONSTRUCTION MEETING. (1 DAY)
4. THE CONTRACTOR SHALL COORDINATE AN ON-SITE PRE-CONSTRUCTION MEETING WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, THE COUNTY PROJECT MANAGER, THE ENGINEER, AND A REPRESENTATIVE FROM HOWARD COUNTY CONSTRUCTION INSPECTION. (1 DAY)
5. CONSTRUCT THE FOLLOWING PERIMETER CONTROLS AS SHOWN ON THE PLAN: STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE, CLEARING ONLY THE AREA NEEDED TO INSTALL THE E&S CONTROLS. (1 DAY)
6. INSTALL THE TEMPORARY CONSTRUCTION ACCESS AND PUMP AROUND PER PHASE 1, WHICH INCLUDES SB-1, SB-2 AND SB-3. DEWATER ALL WORK AREAS AS NEEDED USING THE PUMP AND DEWATERING DEVICE. (1 DAY)
7. COMPLETE PHASE 1 FROM STA. 3+60 TO 4+30. FILL EXISTING CHANNEL WITH SPECIFIED MATERIAL, GRADE CHANNEL, AND INSTALL BRUSH LAYERING PER THE PLAN FROM UPSTREAM TO DOWNSTREAM. (5 DAYS)
8. STABILIZE DISTURBED AREA IN PHASE 1 INCLUDING THE 18" CMP OUTFALL. (1 DAY)
9. WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE PUMP AROUND, SB-2 AND SB-3. INSTALL SILT FENCE AND RESET SANDBAG DAM AT SB-4 AND SB-5 AND PUMP AROUND AS SHOWN ON PLANS. (1 DAY)
10. COMPLETE PHASE 2 FROM STA. 2+98 TO 3+60. FILL EXISTING CHANNEL WITH SPECIFIED MATERIAL, GRADE CHANNEL, AND INSTALL BRUSH LAYERING PER THE PLAN FROM UPSTREAM TO DOWNSTREAM. (5 DAYS)
11. STABILIZE DISTURBED AREA IN PHASE 2. (1 DAY)
12. WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE PUMP AROUND, SB-4 AND SB-5. INSTALL SILT FENCE AND RESET SANDBAG DAM AT SB-6, SB-7 AND PUMP AROUND AS SHOWN ON PLANS. (1 DAY)
13. COMPLETE PHASE 3 FROM STA. 2+43 TO 2+98. FILL EXISTING CHANNEL WITH SPECIFIED MATERIAL, GRADE CHANNEL, AND INSTALL BRUSH LAYERING PER THE PLAN FROM UPSTREAM TO DOWNSTREAM. (5 DAYS)
14. STABILIZE DISTURBED AREA IN PHASE 3. (1 DAY)
15. WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE PUMP AROUND, SB-6 AND SB-7. INSTALL SILT FENCE AND RESET SANDBAG DAM AT SB-8, SB-9 AND PUMP AROUND AS SHOWN ON PLANS. (1 DAY)
16. COMPLETE PHASE 4 FROM STA. 1+57 TO 2+43. FILL EXISTING CHANNEL WITH SPECIFIED MATERIAL, GRADE CHANNEL, AND INSTALL BRUSH LAYERING PER THE PLAN FROM UPSTREAM TO DOWNSTREAM. (5 DAYS)
17. STABILIZE DISTURBED AREA IN PHASE 4. (1 DAY)
18. REMOVE TEMPORARY CONSTRUCTION ACCESS AND GRADE TO FINAL ELEVATIONS. (2 DAYS)
19. WHEN AREAS ARE FULLY STABILIZED, AND UPON PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE THE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE ANY DISTURBED AREAS. (1 DAY)

IN-CHANNEL PUMPING NOTES

1. THE DISTURBED LENGTH SHALL NOT EXCEED THAT WHICH CAN BE COMPLETED IN ONE DAY. AT THE END OF EACH WORK DAY, THE WORK AREA MUST BE STABILIZED AND THE PUMP AROUND REMOVED FROM THE CHANNEL. REFER TO THE DETAILS AND SPECIFICATIONS FOR MCWC 1.2: PUMP-AROUND PRACTICE WHICH ARE INCLUDED ON THE PLANS.
2. THE CONTRACTOR SHALL SIZE THE PUMP AND DIVERSION HOSES TO ACCOMMODATE THE FLOWS ANTICIPATED DURING CONSTRUCTION IN THE CHANNEL SECTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING A CONSTRUCTION PHASE DEWATERING SYSTEM, INCLUDING A TEMPORARY SYSTEM OF PUMPS, DRAINAGE DITCHES AND, SANDBAG/STONE DIVERSIONS, AS REQUIRED TO REMOVE WATER FROM ANY SOURCE, INCLUDING GROUND WATER, AND MAINTAIN WORKABLE, DRY CONDITIONS IN THE WORK AREA.
4. NO CLAIMS WILL BE CONSIDERED FOR DELAYS RELATED TO WET CONDITIONS OR DETERIORATED SUB GRADE RESULTING FROM THE LACK OR PROPER MAINTENANCE OF AN EFFECTIVE TEMPORARY DEWATERING SYSTEM, DISTURBANCE OF THE SUB GRADE DUE TO POOR CONSTRUCTION PROCEDURES, OR FROM CONSTRUCTION WORK DURING UNFAVORABLE WEATHER CONDITIONS. THE CONTRACTOR SHALL BE AWARE OF WEATHER FORECASTS AND RAIN PREDICTIONS SO AS TO BE PROPERLY PREPARED TO MAINTAIN OR SHUT DOWN OPERATIONS WHEN APPROPRIATE.

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1. **PREFERRED** – APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS/ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
2. **ACCEPTABLE** – APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING – FOR THE PERIODS MARCH 1 – APRIL 30, AND AUGUST 1 – OCTOBER 15, SEED WITH 60 LBS / ACRE (11.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 – JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS/ACRE (0.05 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 – FEBRUARY 28, PROTECT SITE BY: **OPTION 1** – TWO 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. NO ASPHALT EMULSION SHALL BE USED FOR ANCHORING. ONLY A NON-TOXIC, LATEX TACKING MATERIAL IS ALLOWED.

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

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
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 MOST CURRENT MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, 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.
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 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:

TOTAL AREA OF SITE	0.46 ACRES
AREA DISTURBED	0.46 ACRES
AREA TO BE ROOFED OR PAVED	0 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.46 ACRES
TOTAL CUT	7 CU. YDS.
TOTAL FILL	252 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	TO BE DETERMINED PER NOTE 12, BELOW.
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 SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS. BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTH OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.
12. OFFSITE WASTE / BORROW SITE SHALL HAVE AN APPROVED SEDIMENT CONTROL PLAN, AND PERMIT

STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE
TO PROVIDE A SUITABLE, SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES


- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

 - I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
 - II. TOPSOIL SPECIFICATIONS – SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1-1/2" IN DIAMETER.
 - B. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTURBED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
 - III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - A. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION – SECTION – VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 - IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
 - A. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 1. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
 2. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 3. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 4. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME AS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 - NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST, AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
 - B. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION – SECTION VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 - V. TOPSOIL APPLICATION
 - A. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
 - B. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" – 8" HIGHER IN ELEVATION.
 - C. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" – 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - D. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

**REVIEWED FOR HOWARD SCD
AND MEETS TECHNICAL REQUIREMENTS**

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT



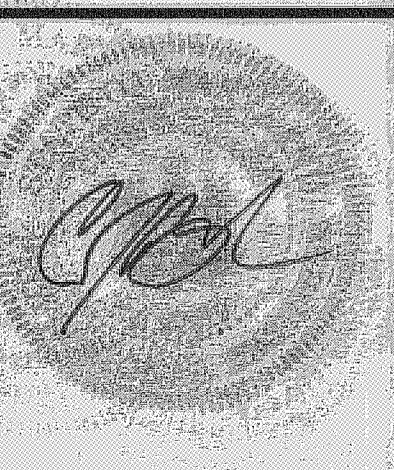
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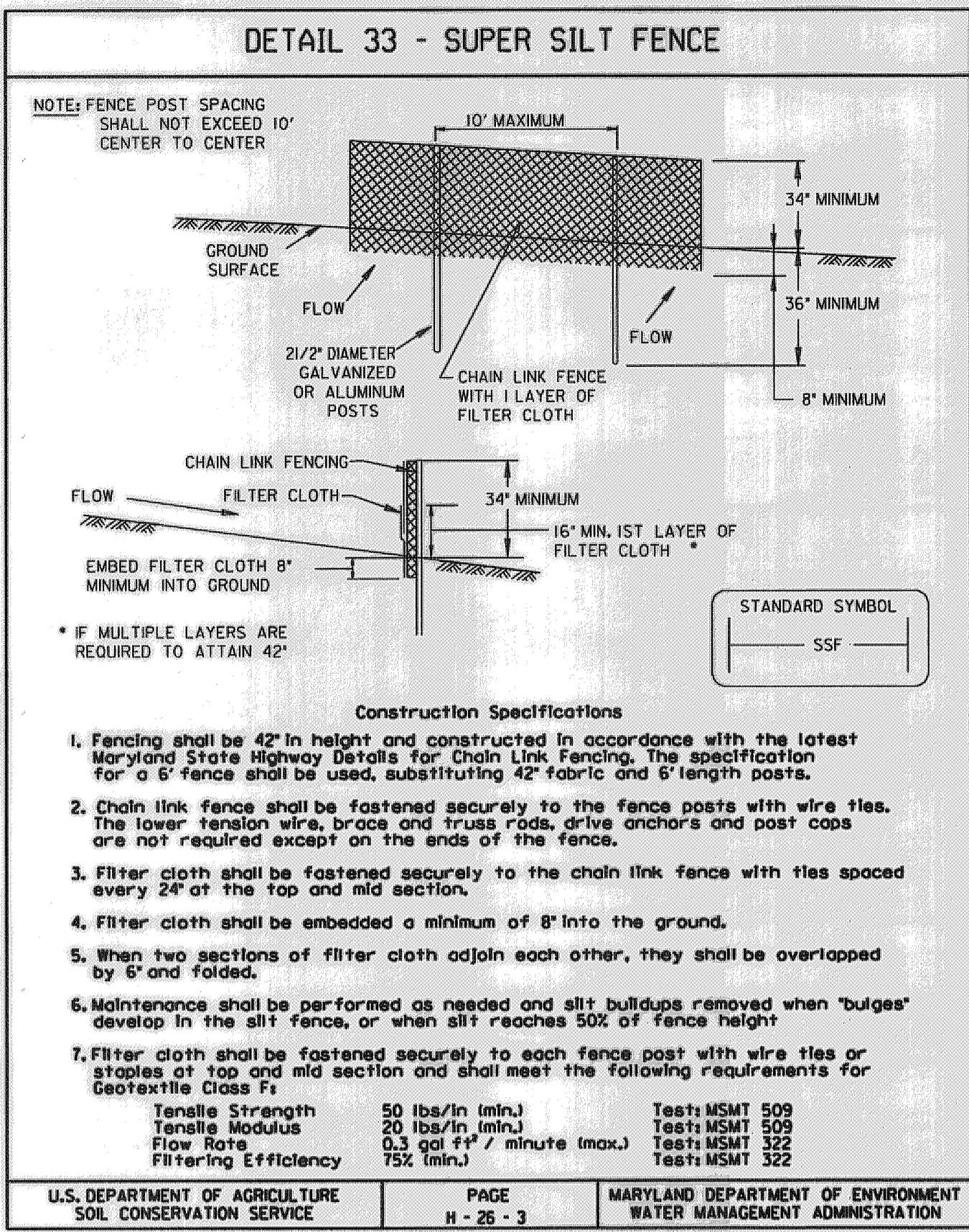
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**HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150**

**EROSION AND SEDIMENT
CONTROL NOTES**

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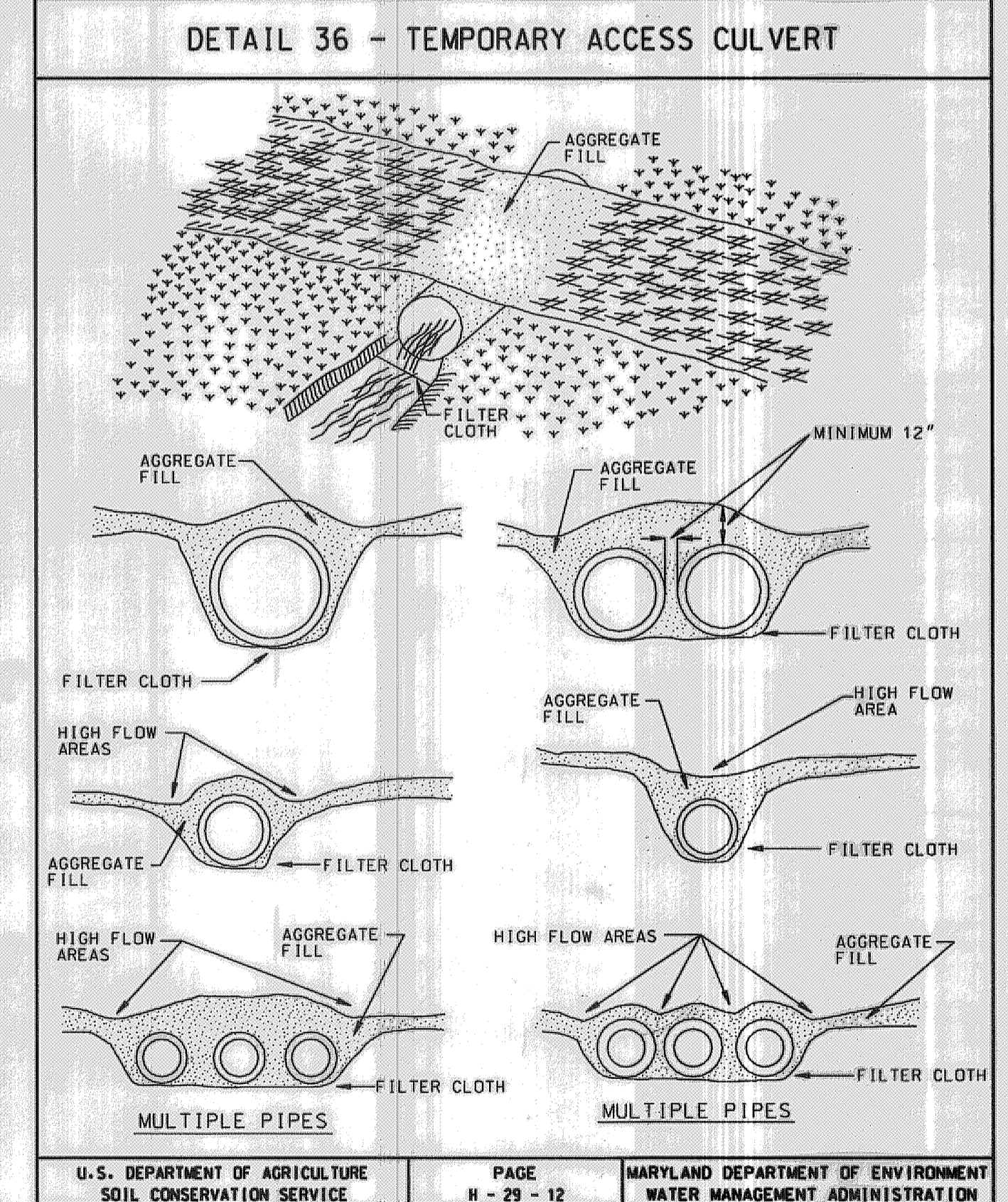
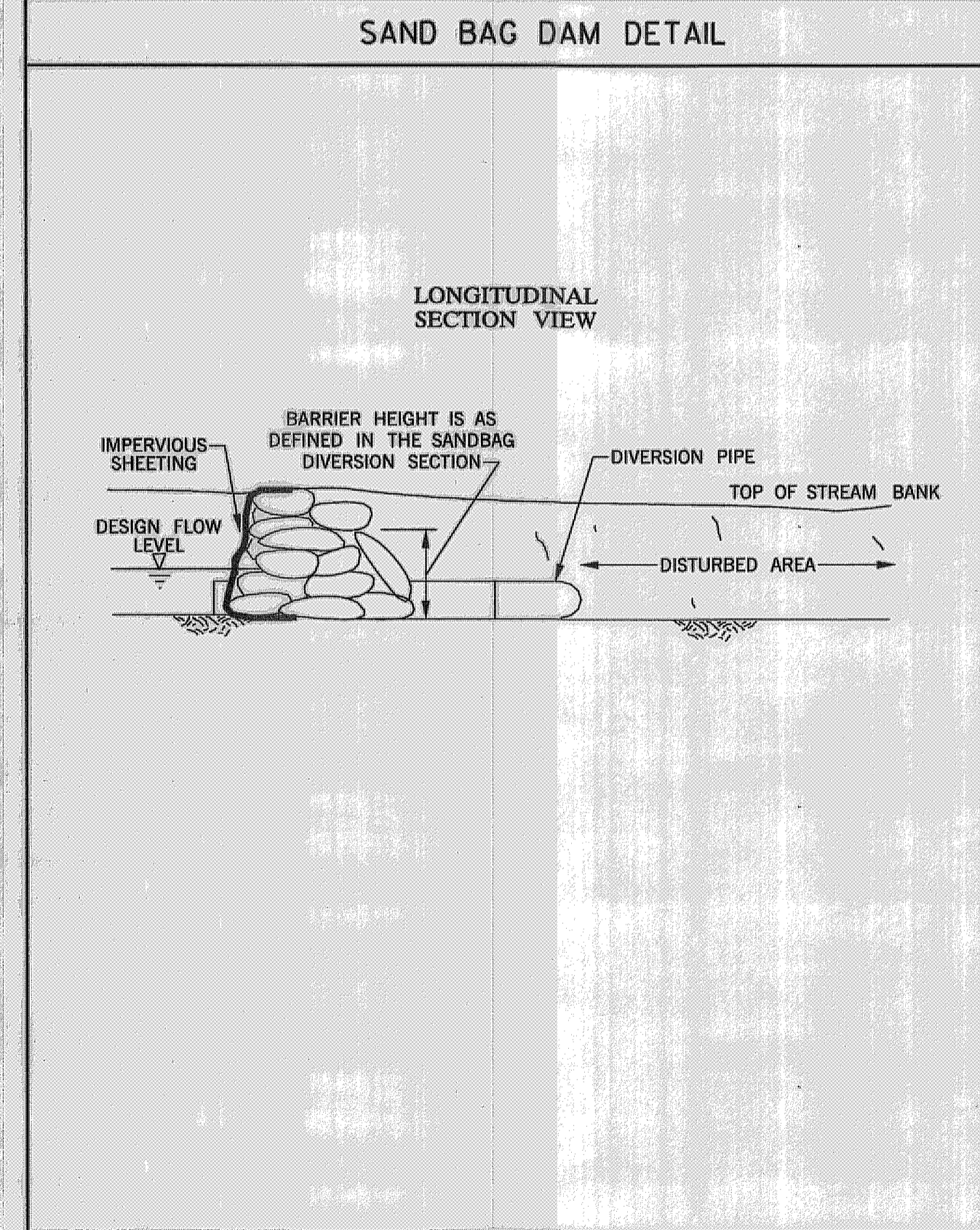
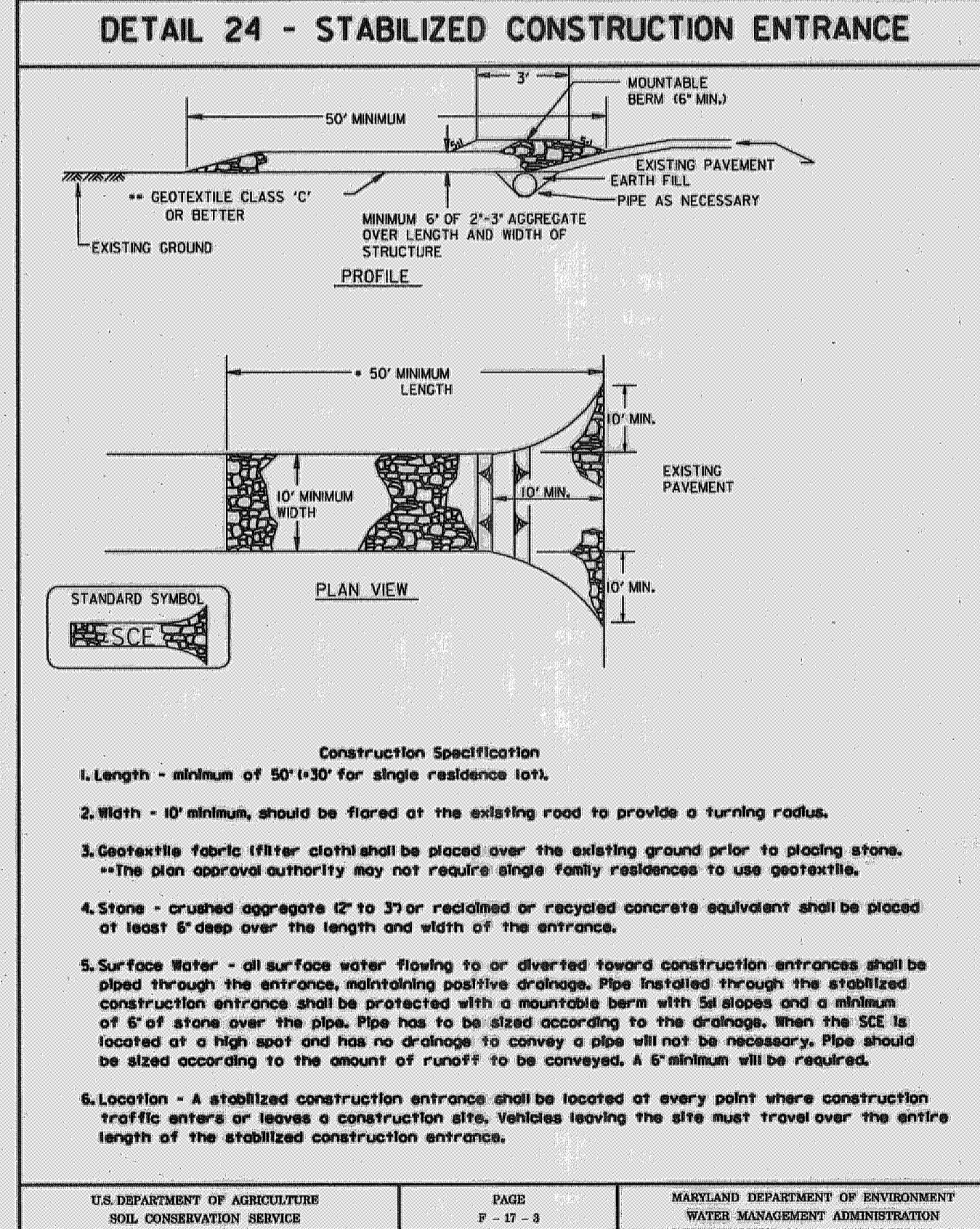
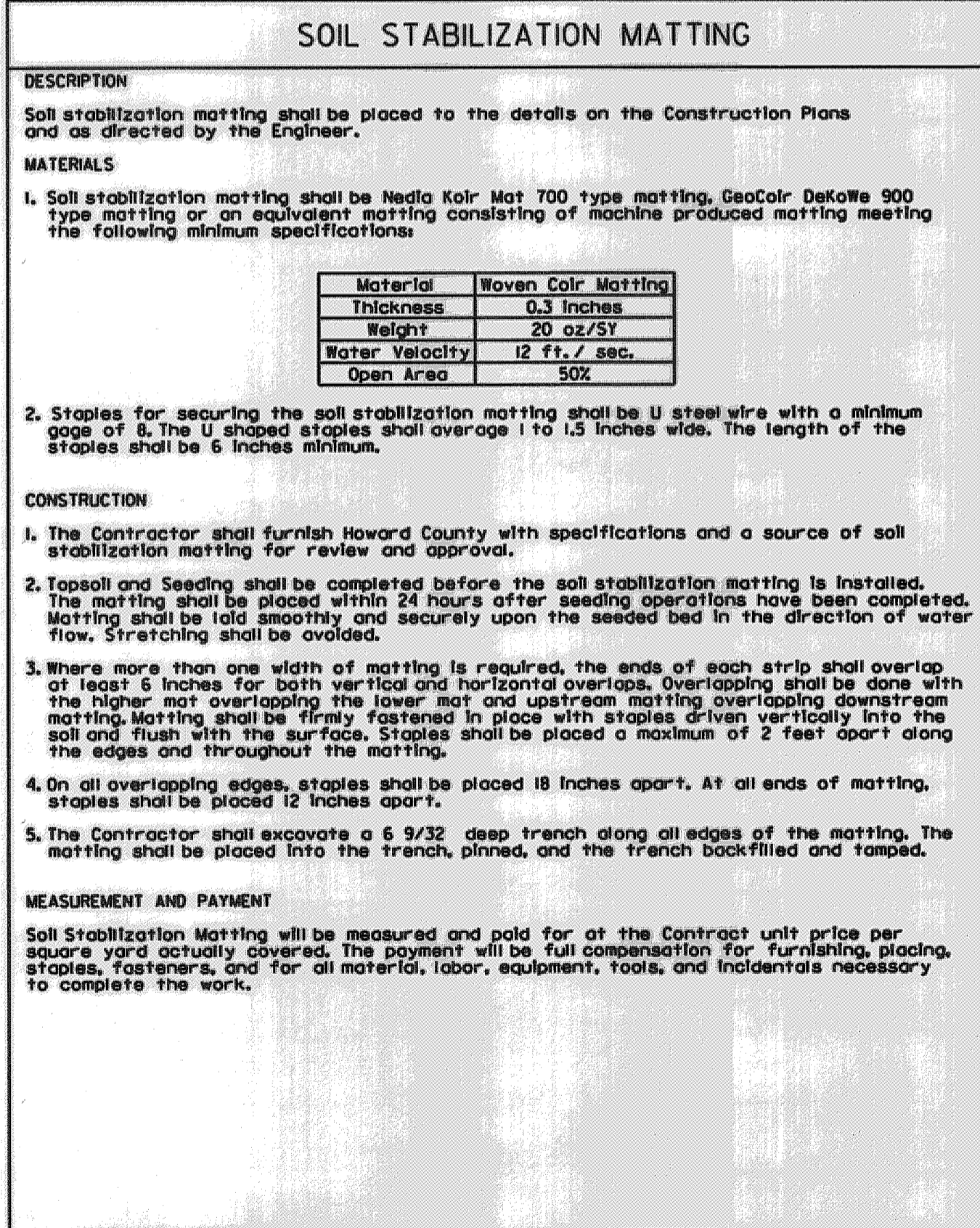
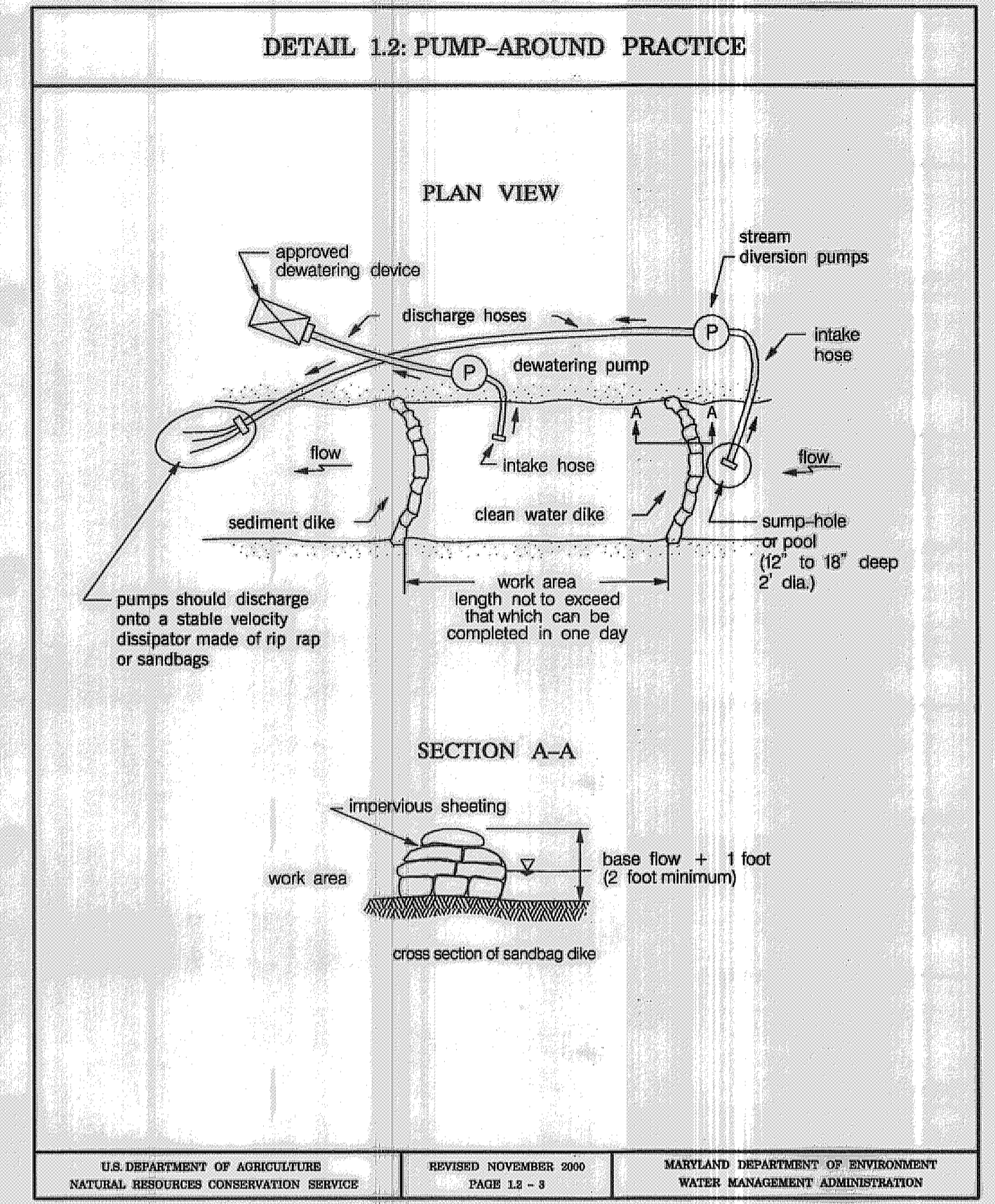
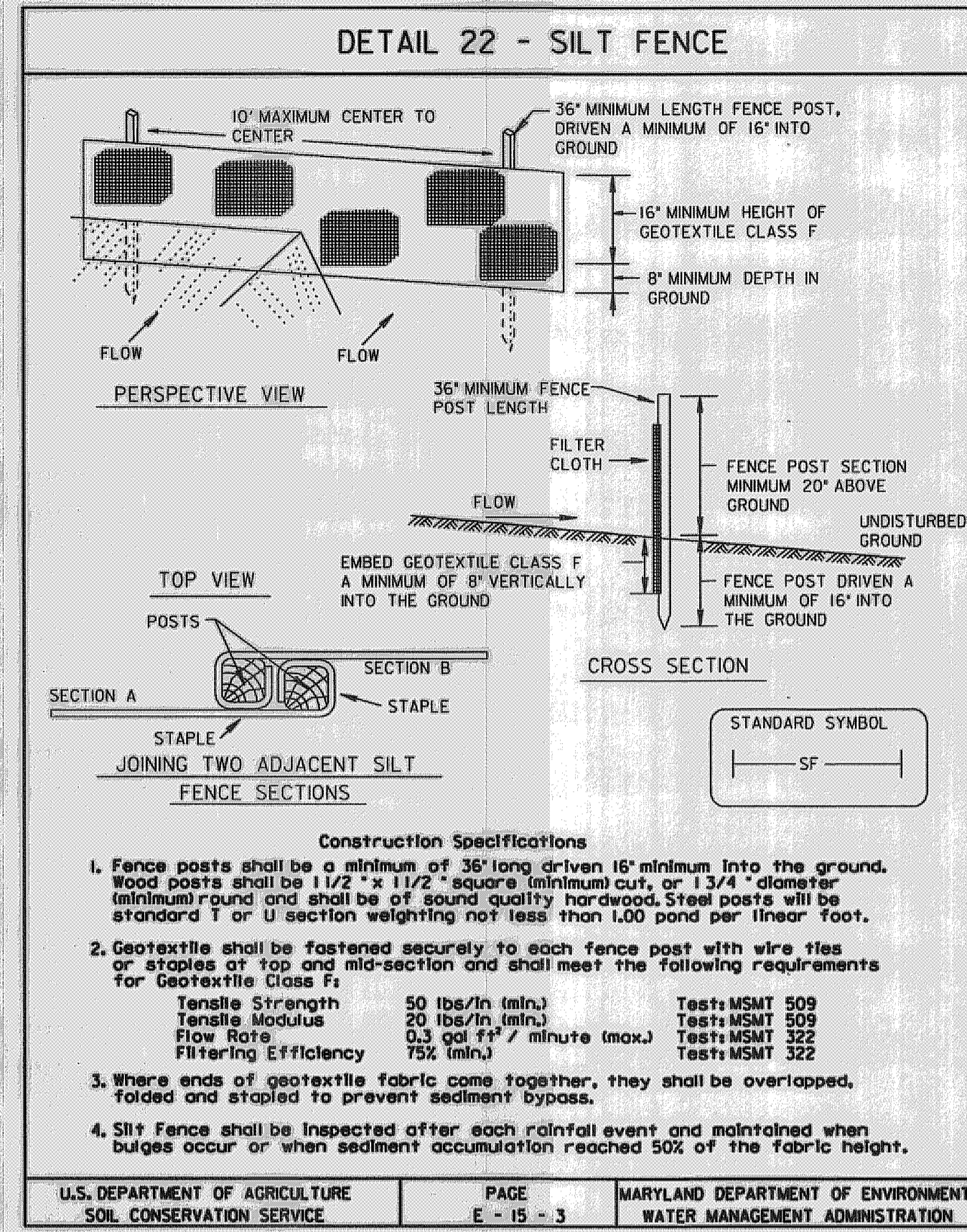


DETAIL 33 - SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10d	Unlimited	Unlimited
10 - 20%	10d - 5d	200 feet	1,500 feet
20 - 33%	5d - 3d	100 feet	1,000 feet
33 - 50%	3d - 2d	100 feet	500 feet
50% +	2d +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE H-26-3A | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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HOWARD SCD | DATE 7/27/09

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HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
TALL MAPLE COURT STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

EROSION AND SEDIMENT CONTROL DETAIL SHEET

SCALE NOT TO SCALE

SHEET 8 OF 13

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPERTY LINE
- EXISTING TREE
- LOD LIMIT OF DISTURBANCE
- OCF ORANGE CONSTRUCTION FENCE
- B 75' STREAM BUFFER
- FOREST CONSERVATION AREA BOUNDARY
- LIVE BRANCH LAYERING ZONE
- RIPARIAN PLANTING ZONE
- TURF GRASS ZONE

PLANTING SCHEDULE

PLANTING ZONE	QUANTITY	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING
LIVE BRANCH LAYERING ZONE	170	SILKY DOGWOOD	CORNUS AMOMUM	4-5' BRUSH WHIP	NA
	170	RED-OSIER DOGWOOD	CORNUS SERICEA	4-5' BRUSH WHIP	NA
	170	STREAMCO WILLOW	SALIX PURPUREA	4-5' BRUSH WHIP	NA
RIPARIAN PLANTING ZONE	9	RED MAPLE	ACER RUBRUM	4-5' CONT.	12' O.C.
	9	TULIP POPLAR	LIRIODENDRON TULIPIFERA	4-5' CONT.	12' O.C.
	9	WHITE OAK	QUERCUS ALBA	4-5' CONT.	12' O.C.
	9	PIN OAK	QUERCUS PALUSTRIS	4-5' CONT.	12' O.C.
	35	SILKY DOGWOOD	CORNUS AMOMUM	2-3' CONT.	8' O.C.
	35	ARROWWOOD	VIBURNUM DENTATUM	2-3' CONT.	8' O.C.

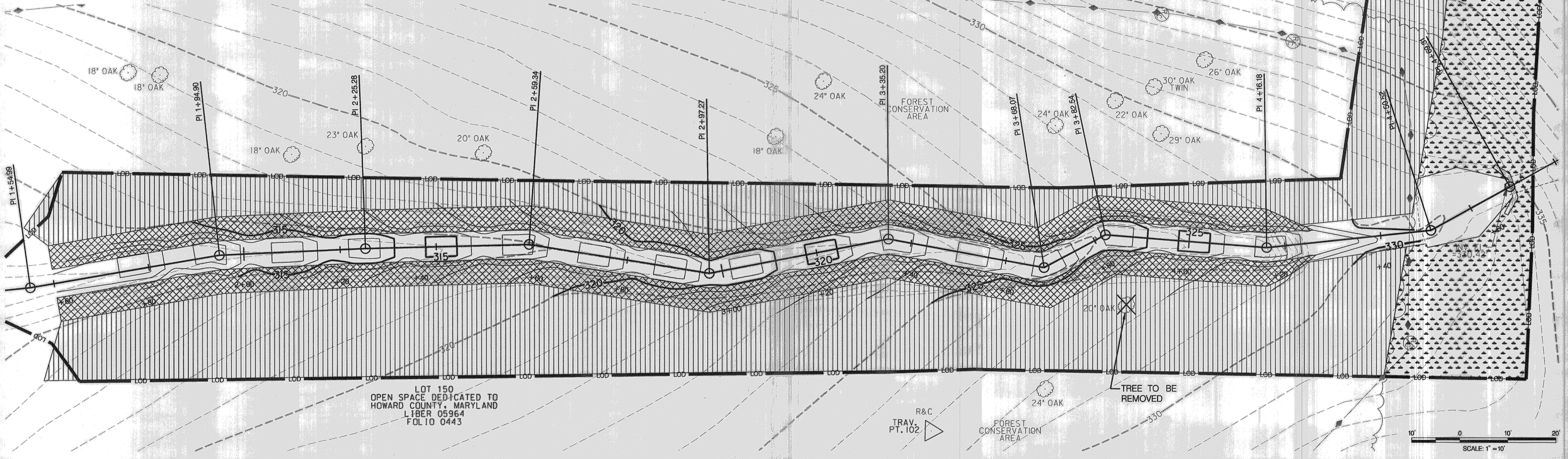
RIPARIAN SEED MIX

COMMON NAME	SCIENTIFIC NAME	FREQUENCY (%)	QUANTITY (LBS.)
REDTOP	AGROSTIS ALBA	10	0.6
RIVERBANK WILD RYE	ELYMUS RIPARIAS	20	1.1
VIRGINIA WILD RYE	ELYMUS VIRGINICUS	20	1.1
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	15	0.9
SWITCHGRASS	PANICUM VIRGATUM	10	0.6
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	20	1.1
BLUE VERVAIN	VERBENA HASTATA	5	0.3
TOTAL			5.7 LBS.

SOIL STABILIZATION MATTING	TREE SHELTERS
1445 SY	QTY 106

NOTE: DISTURBED AREAS WITHIN THE 75' STREAM BUFFER SHALL BE STABILIZED WITH SOIL STABILIZATION MATTING. AREAS WITHIN THE LOD THAT REMAIN UNDISTURBED AT THE COMPLETION OF WORK MAY NOT REQUIRE MATTING. THIS SHALL BE DETERMINED AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

GENERAL NOTE:
1. CONTRACTOR SHALL NOT DISTURB ANY TREES WITHIN THE LOD THAT ARE GREATER THAN 6" DBH UNLESS NOTED ON THE PLAN.



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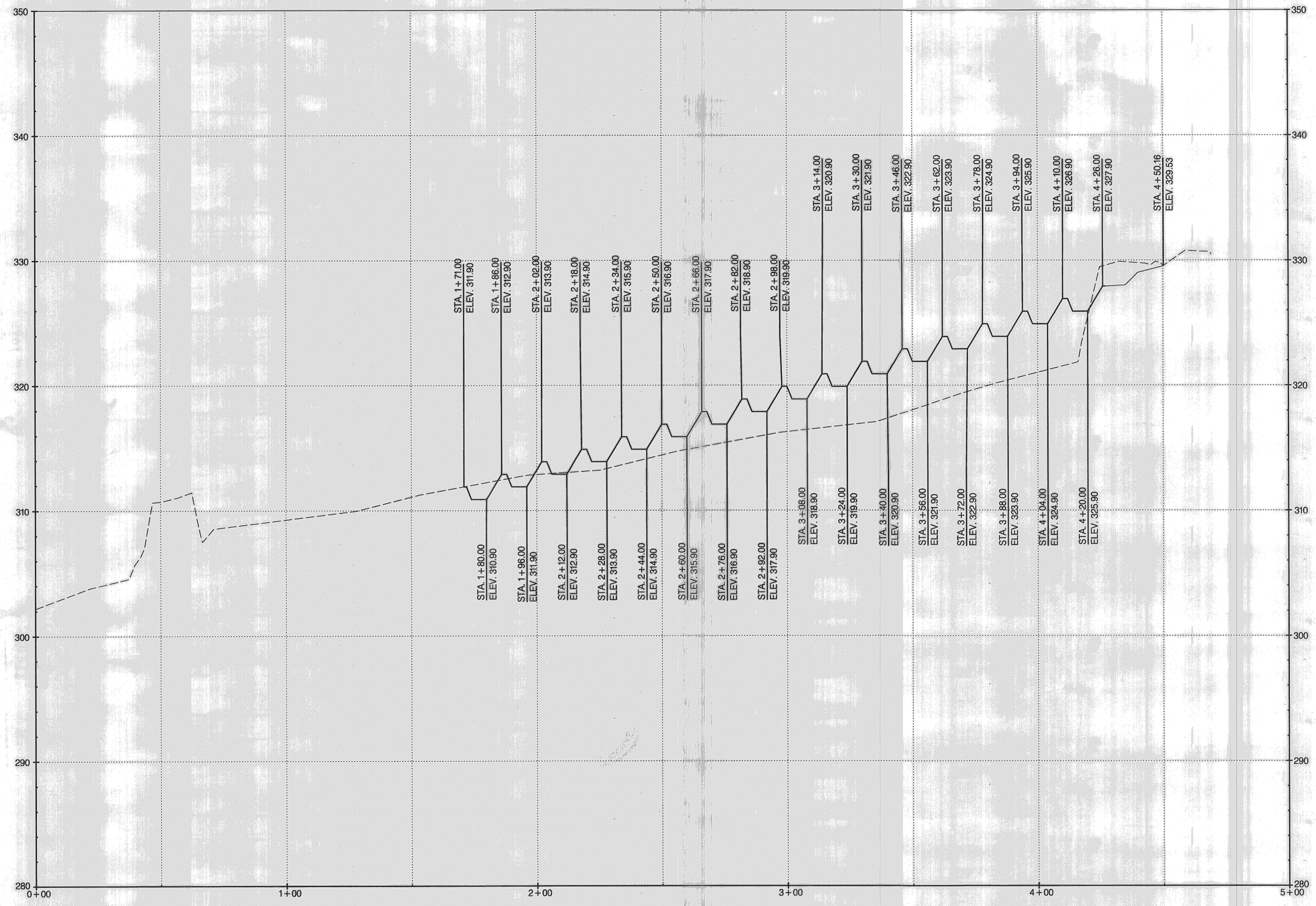
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ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
TAX MAP 31; LOT 150

LANDSCAPING PLAN

SCALE: 1" = 10'
SHEET 9 OF 13

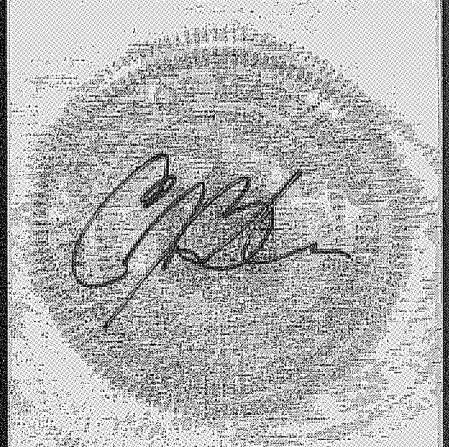


SCALE: 1"=20' (HOR.)
 1"=4' (VER.)

LEGEND
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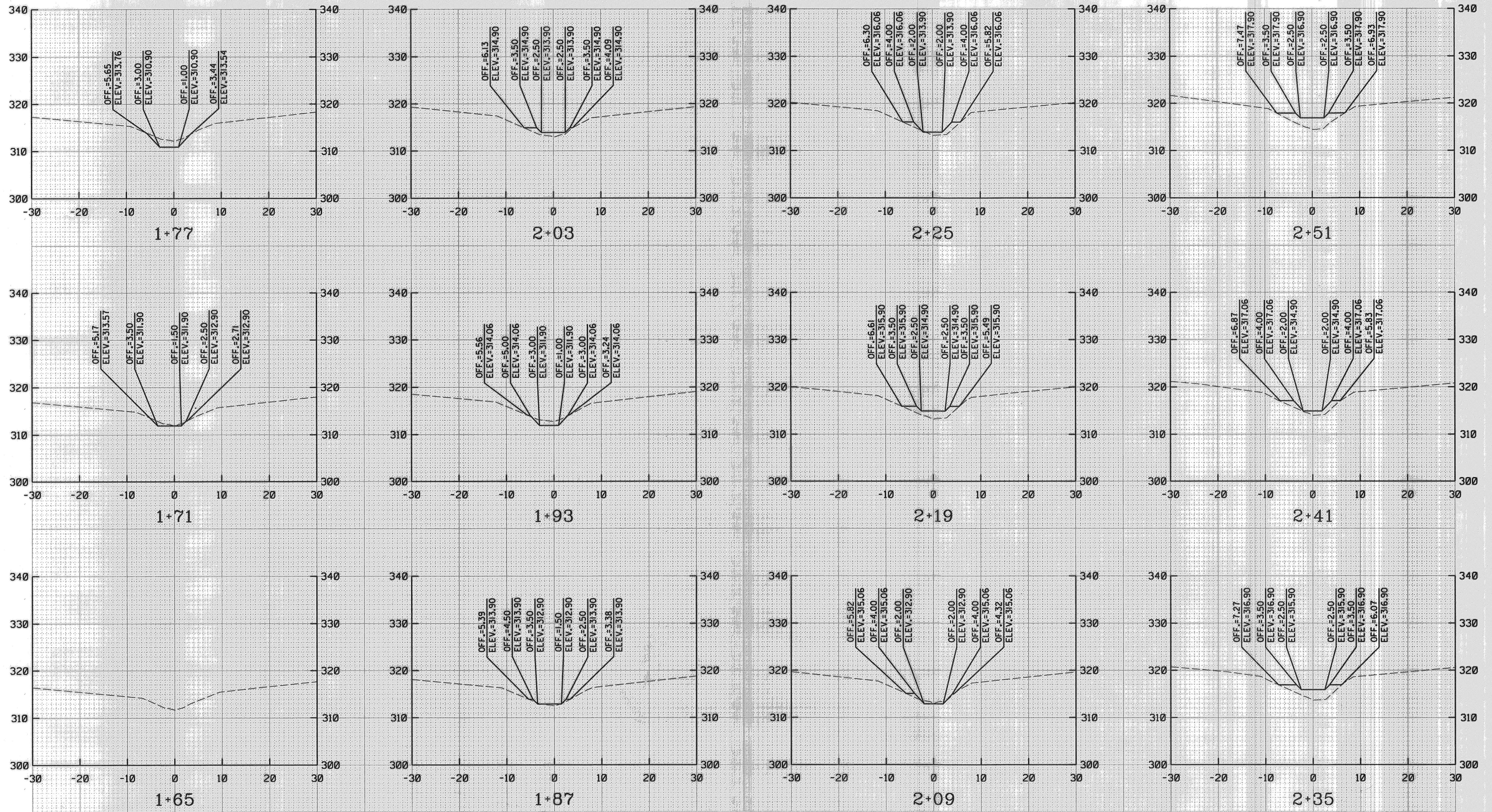


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 ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
 TAX MAP 31; LOT 150

PROFILE

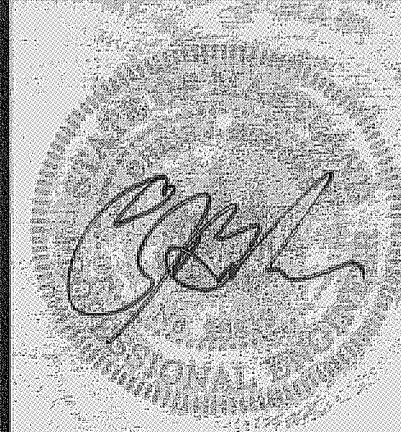
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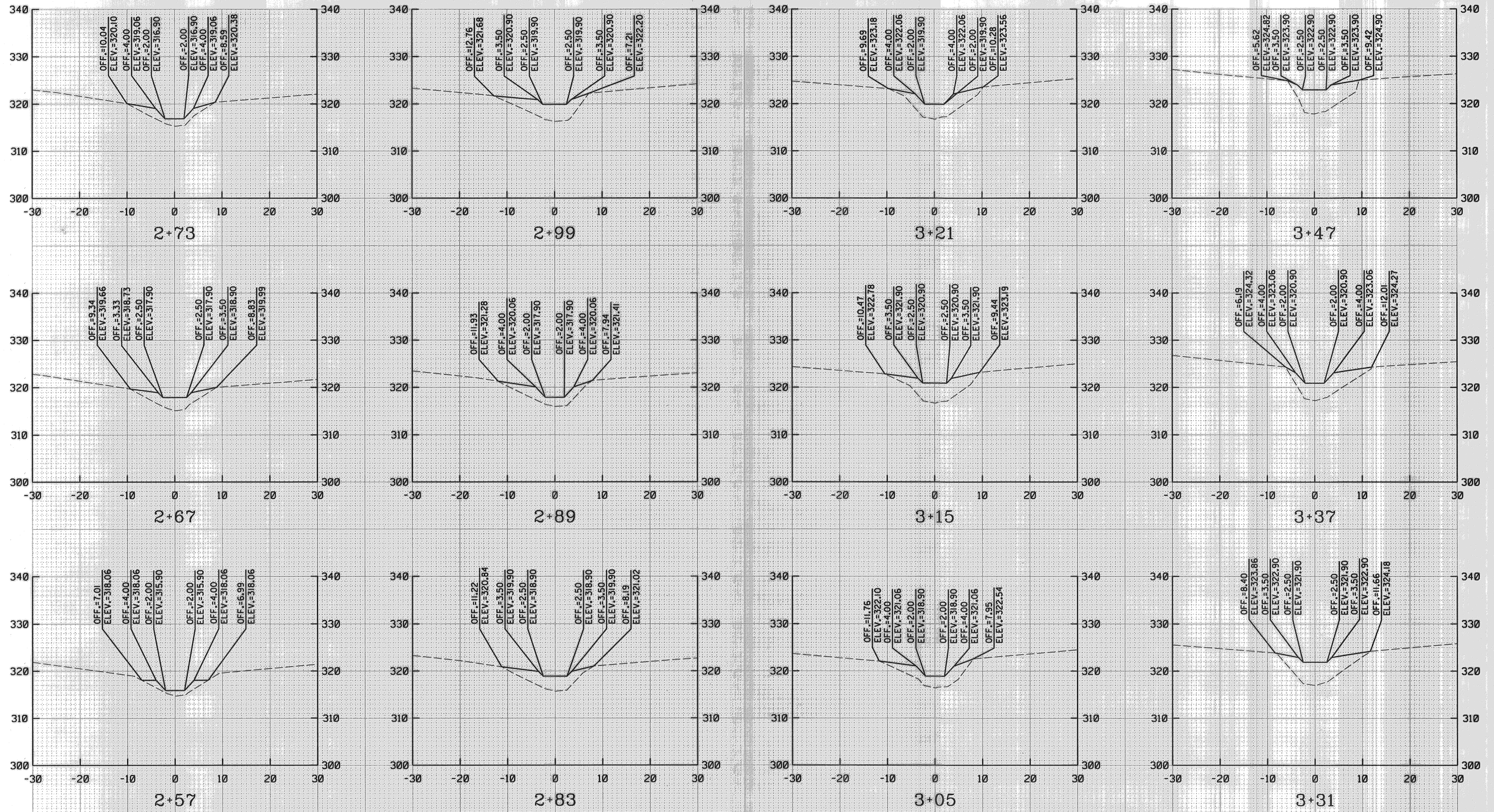


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 ELECTION DISTRICT NO. 2, HOWARD COUNTY MARYLAND
 TAX MAP 31; LOT 150

CROSS SECTION

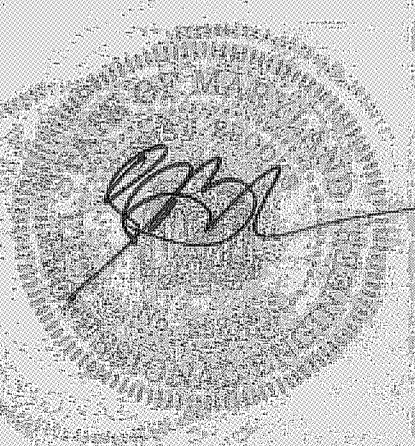
SCALE
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 SHEET
 11 OF 13



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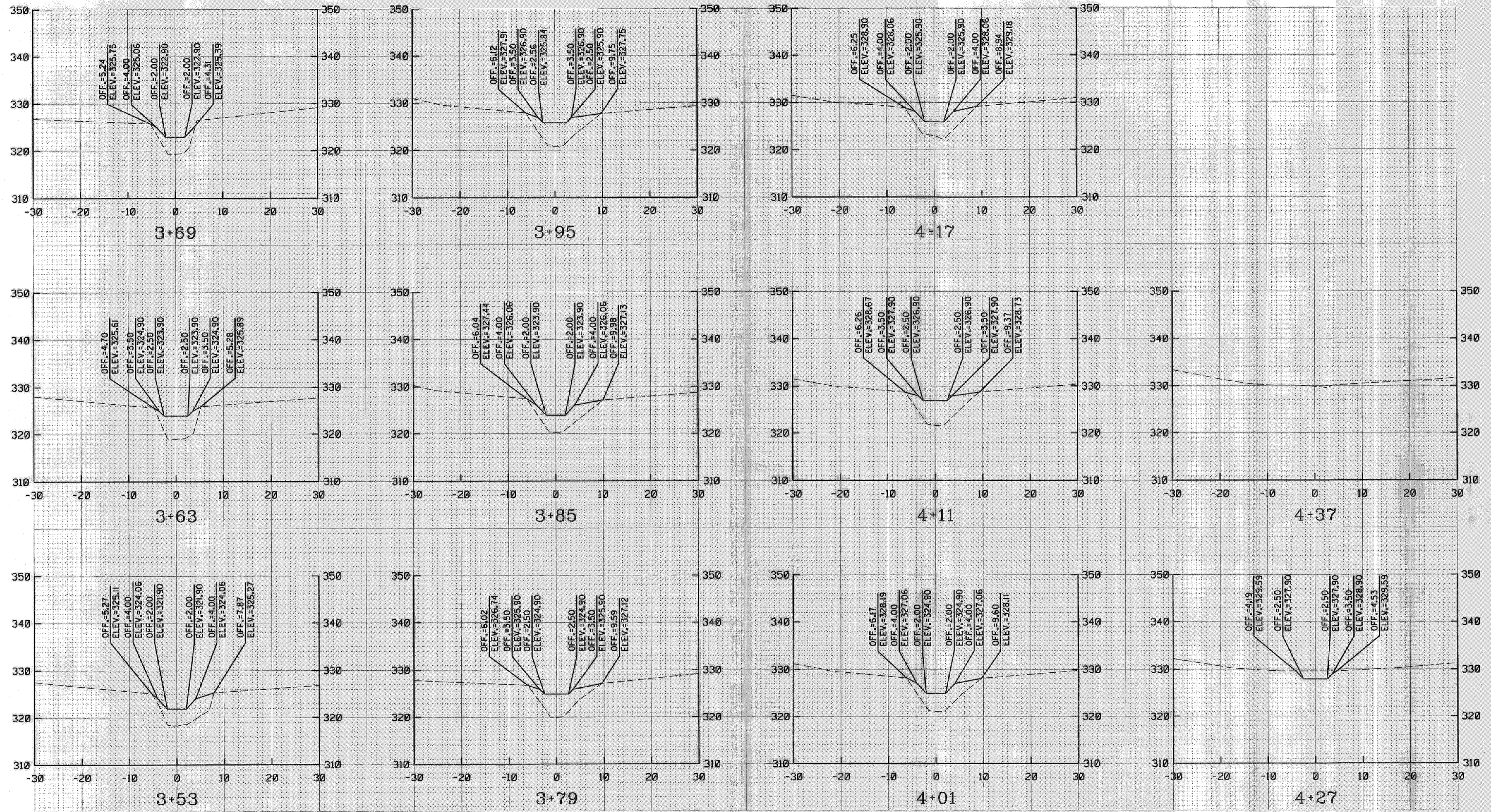


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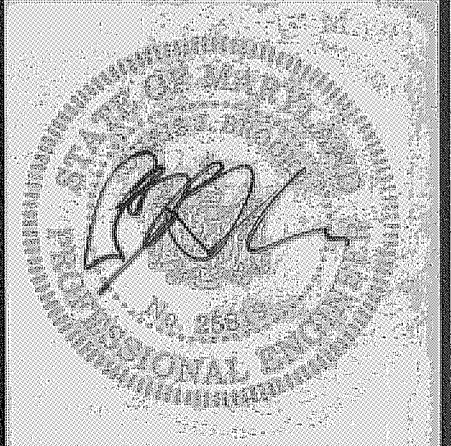
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CROSS SECTION

SCALE
 1" = 10'

SHEET
 13 OF 13