

# HOWARD COUNTY

## Capital Project #D-1159

### Ilchester Point Court

# Principal Spillway Replacement Project

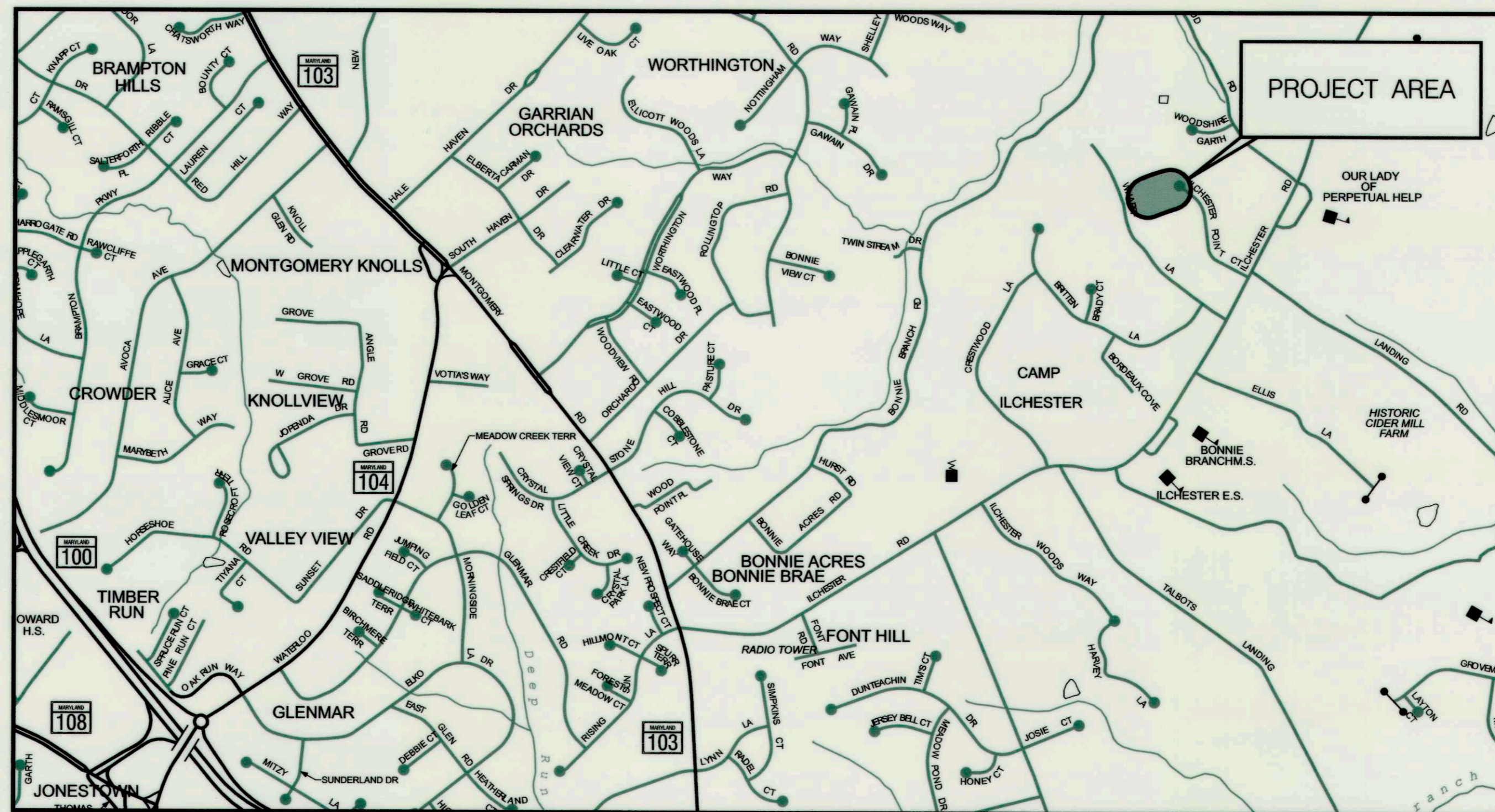
Storm Water Management Division  
Bureau Of Environmental Services

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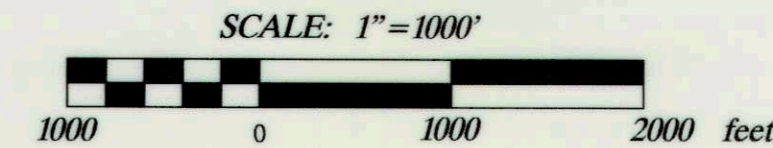
SHEET NO.	TITLE
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#### LEGEND

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX - SIGNALS	
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
RIGHT OF WAY LINE	
EXISTING ROADWAY	
BASE OR SURVEY LINE	
TRAVERSE POINT	
APPROXIMATE LIMITS OF CUT AND/OR FILL	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
LIMIT OF DISTURBANCE	
EXISTING MAJOR CONTOURS	
EXISTING MINOR CONTOURS	
EXISTING PIPE/CULVERT	
EXISTING DROP INLET	
WETLAND	
HEDGE /TREE LINE	
BUSH /TREE	
CONIFEROUS TREE	
LIGHT POLE	



HORIZONTAL DATUM	NAD 83 /91
VERTICAL DATUM	NAVD 88



#### 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 CONSULTANTS, INC-JULY 2010.
- 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.
- WATERS OF THE US WERE DELINEATED BY McCORMICK TAYLOR JUNE 2010.
- 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 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 AS-BUILT PLANS FOR ILCHESTER LANDING (F-89-240).

#### PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 32013, EXPIRATION DATE: 7/5/2013

#### DESIGN CERTIFICATION

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

#### OWNER'S/DEVELOPER'S CERTIFICATION

I/WE 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 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 POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

#### REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

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

*John R. Robinson* /16  
HOWARD SOIL CONSERVATION DISTRICT  
3/7/12  
DATE

2-29-2012  
DATE

*Amy L. Hribar*  
DESIGNER'S SIGNATURE

MARYLAND  
REGISTRATION  
NUMBER 32013

AMY L. HRIBAR  
PRINTED NAME

3/7/2012  
DATE

*Richard Powell*  
OWNER /DEVELOPER SIGNATURE

Richard Powell, Project Manager  
PRINTED NAME AND TITLE

#### DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

*Samuel E. Sultman* /12  
DIRECTOR OF PUBLIC WORKS  
3/16/12  
DATE  
*Evelyn E. Youl* /12  
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES  
3/16/12  
DATE

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Since 1946

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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) 313-6444



DES:	TW	ALH	AS-BUILT	1/24/13
DRN:	MR			
CHK:	CB			
DATE:	2/24/12			
BY	NO.	REVISION	DATE	

ILLCHESTER POINT COURT  
PRINCIPAL SPILLWAY REPLACEMENT PROJECT  
CAPITAL PROJECT #D-1159  
HOWARD COUNTY

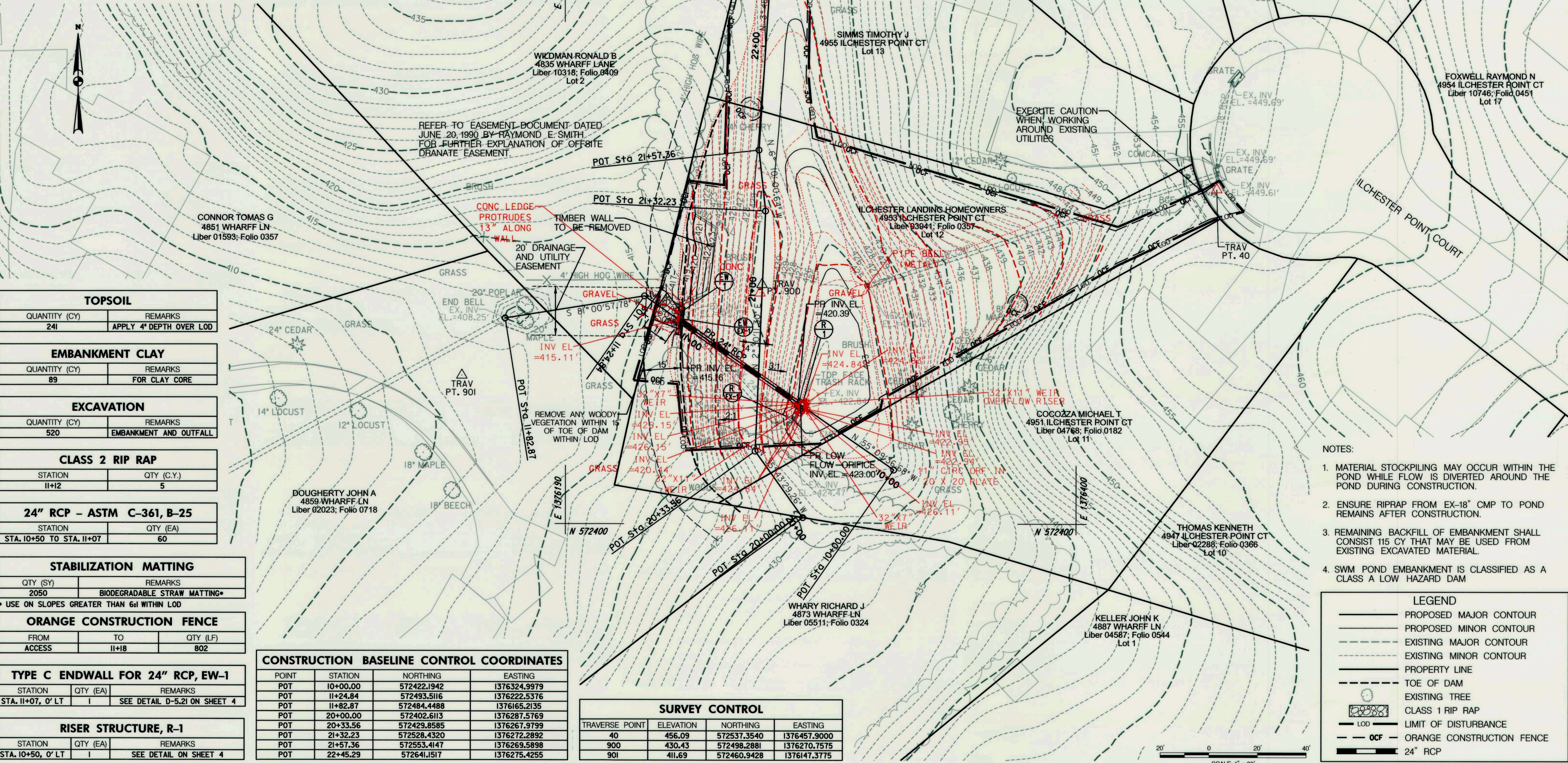
TITLE SHEET

SCALE  
AS  
SHOWN

SHEET

1 OF 8

**OPERATION, MAINTENANCE AND INSPECTION**  
 INSPECTION OF THE PONDS SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.



TOPSOIL	
QUANTITY (CY)	REMARKS
241	APPLY 4" DEPTH OVER LOD

EMBANKMENT CLAY	
QUANTITY (CY)	REMARKS
89	FOR CLAY CORE

EXCAVATION	
QUANTITY (CY)	REMARKS
520	EMBANKMENT AND OUTFALL

CLASS 2 RIP RAP	
STATION	QTY (C.Y.)
11+12	5

24" RCP - ASTM C-361, B-25	
STATION	QTY (EA)
STA. 10+50 TO STA. 11+07	60

STABILIZATION MATTING	
QTY (SY)	REMARKS
2050	BIODEGRADABLE STRAW MATTING*

\* USE ON SLOPES GREATER THAN 6:1 WITHIN LOD

ORANGE CONSTRUCTION FENCE		
FROM ACCESS	TO	QTY (LF)
11+18		802

TYPE C ENDWALL FOR 24" RCP, EW-1		
STATION	QTY (EA)	REMARKS
STA. 11+07, 0' LT	1	SEE DETAIL D-5.21 ON SHEET 4

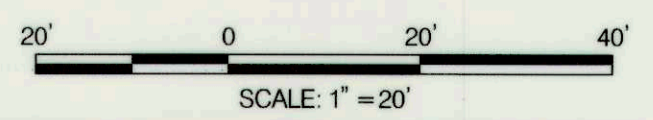
RISER STRUCTURE, R-1		
STATION	QTY (EA)	REMARKS
STA. 10+50, 0' LT	1	SEE DETAIL ON SHEET 4

CONSTRUCTION BASELINE CONTROL COORDINATES			
POINT	STATION	NORTHING	EASTING
POT	10+00.00	572422.1942	1376324.9979
POT	11+24.84	572493.5116	1376222.5376
POT	11+82.87	572484.4488	1376165.2135
POT	20+00.00	572402.6113	1376287.5769
POT	20+33.56	572429.8585	1376267.9799
POT	21+32.23	572528.4320	1376272.2892
POT	21+57.36	572553.4147	1376269.5898
POT	22+45.29	572641.1517	1376275.4255

SURVEY CONTROL			
TRAVERSE POINT	ELEVATION	NORTHING	EASTING
40	456.09	572537.3540	1376457.9000
900	430.43	572498.2881	1376270.7575
901	411.69	572460.9428	1376147.3775

- NOTES:
- MATERIAL STOCKPIILING MAY OCCUR WITHIN THE POND WHILE FLOW IS DIVERTED AROUND THE POND DURING CONSTRUCTION.
  - ENSURE RIPRAP FROM EX-18" CMP TO POND REMAINS AFTER CONSTRUCTION.
  - REMAINING BACKFILL OF EMBANKMENT SHALL CONSIST 115 CY THAT MAY BE USED FROM EXISTING EXCAVATED MATERIAL.
  - SWM POND EMBANKMENT IS CLASSIFIED AS A CLASS A LOW HAZARD DAM

LEGEND	
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPERTY LINE
	TOE OF DAM
	EXISTING TREE
	CLASS 1 RIP RAP
	LIMIT OF DISTURBANCE
	OCF - ORANGE CONSTRUCTION FENCE
	24" RCP



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Howard E. Salter*  
 CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

3/20/12  
 DATE

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 Engineers & Planners Since 1946

509 South Exeter Street  
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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  
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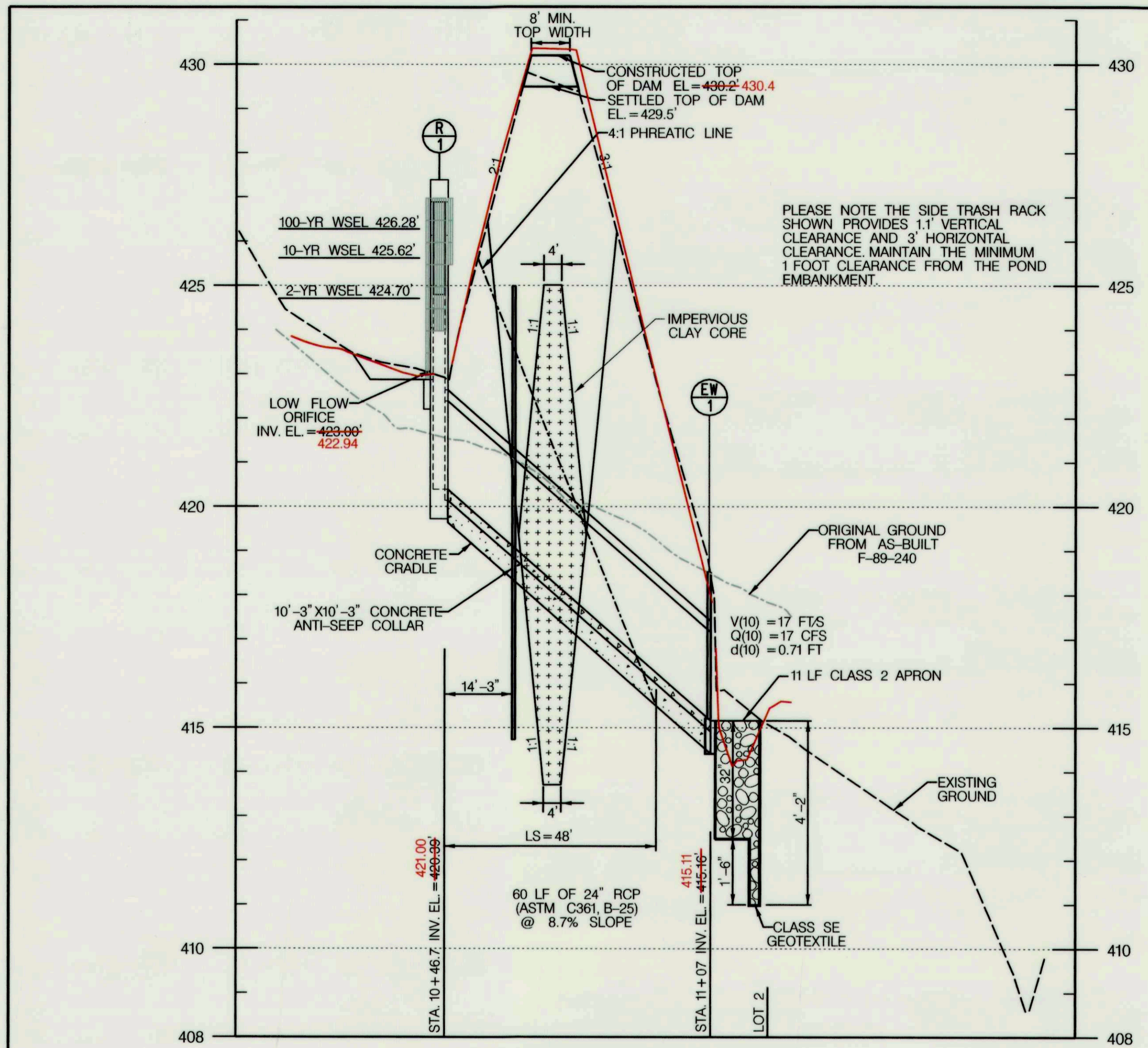


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ILCHESTER POINT COURT  
 PRINCIPAL SPILLWAY REPLACEMENT PROJECT  
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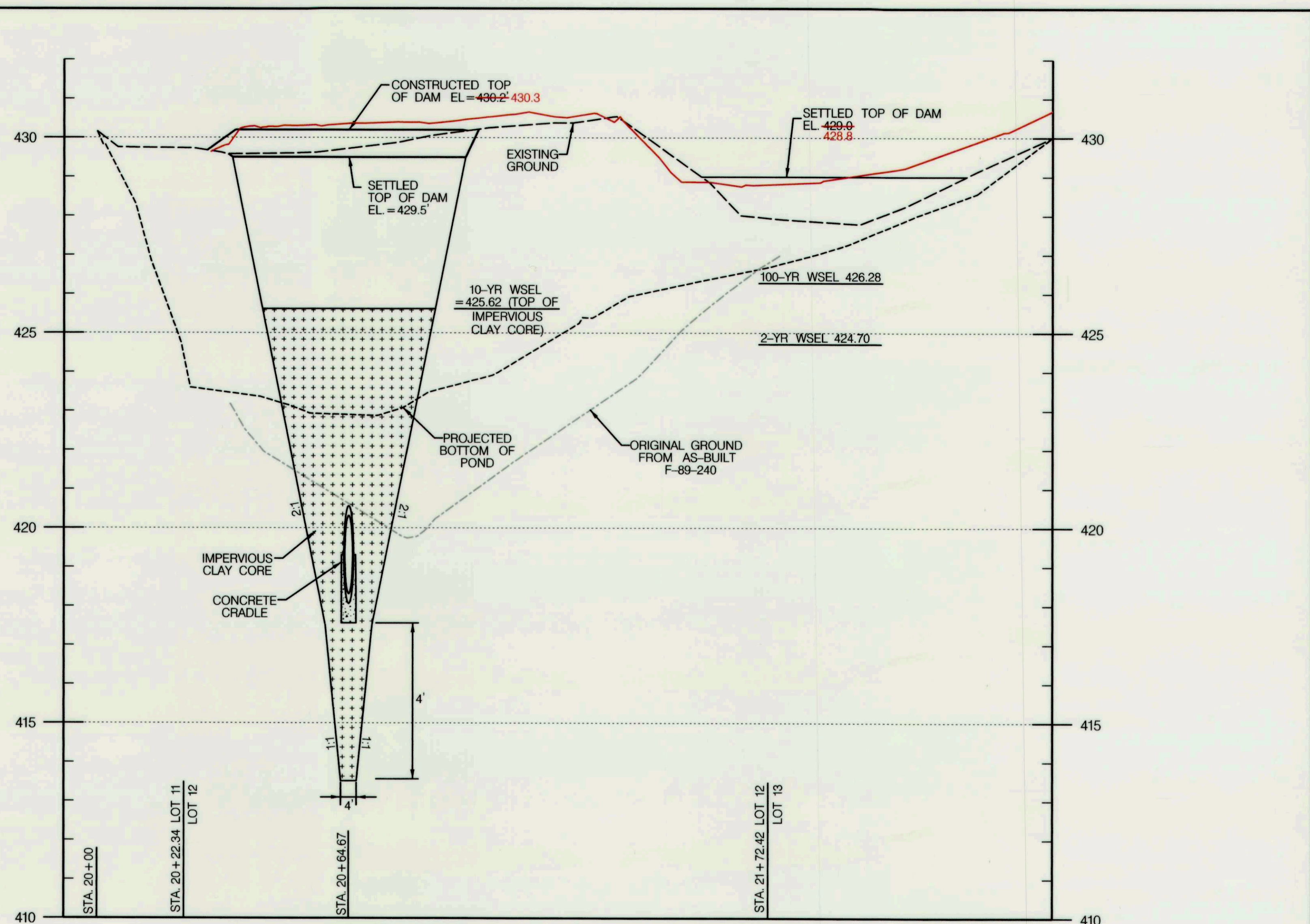
**SITE PLAN**

SCALE  
 1" = 20'  
 SHEET  
 2 OF 8



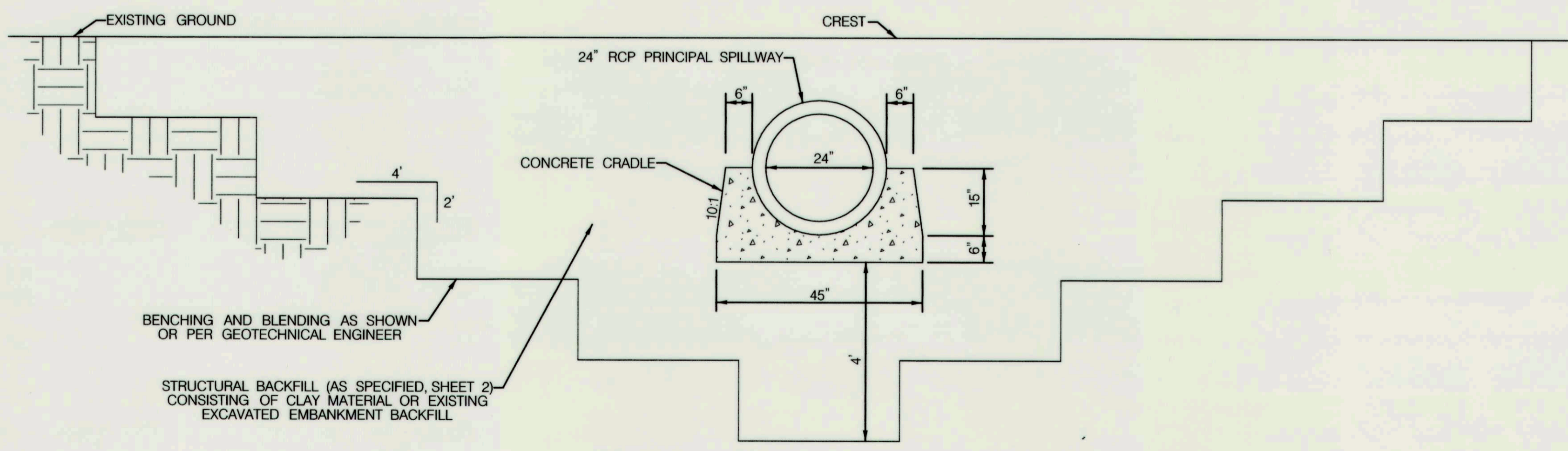
**SPILLWAY PIPE PROFILE**

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 2'



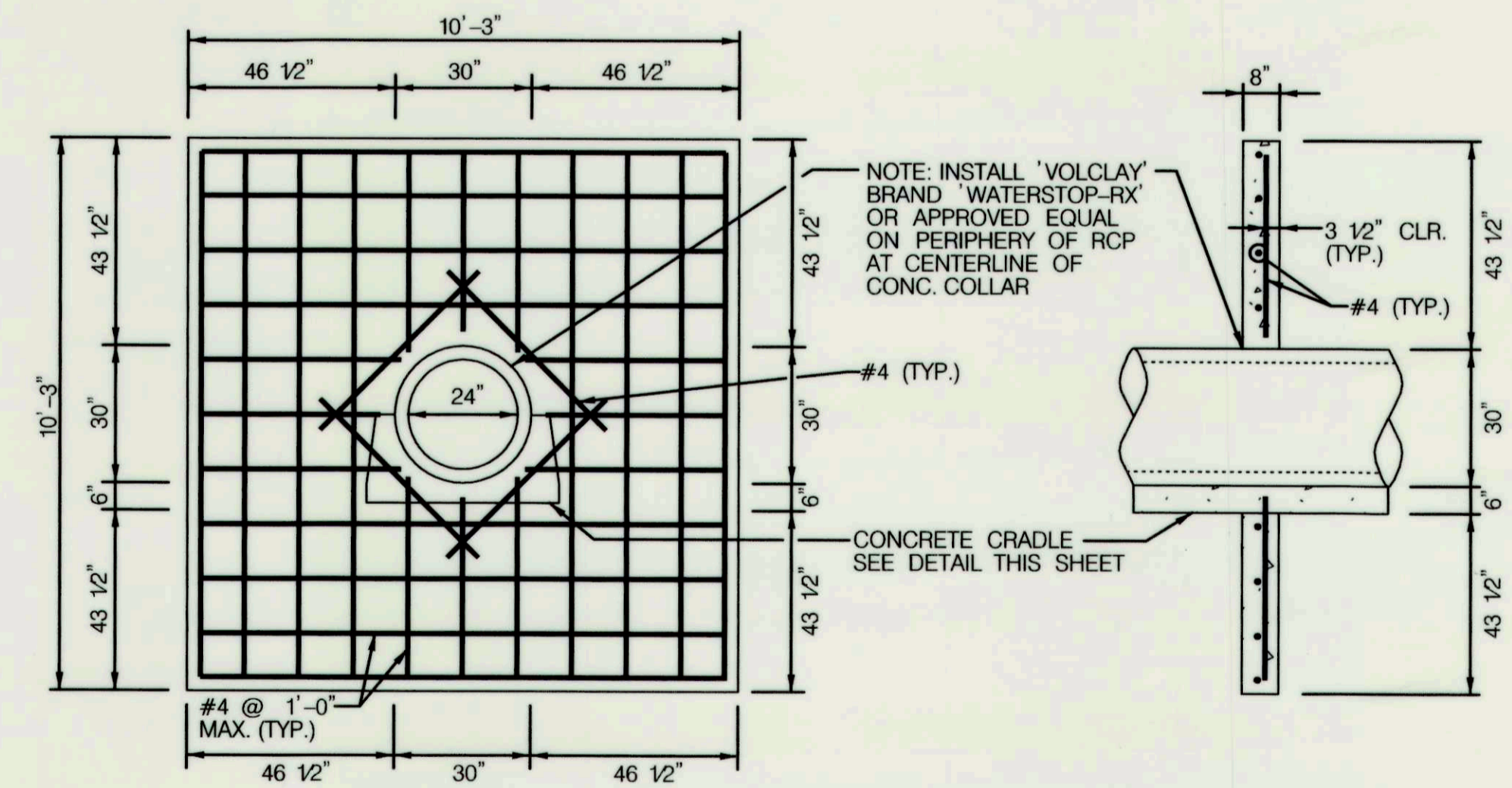
**CENTERLINE OF EMBANKMENT PROFILE**

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 2'



**PIPE TRENCH AND CONCRETE CRADLE DETAIL**

NOT TO SCALE



**CONCRETE ANTI-SEEP COLLAR**

NOT TO SCALE

- NOTES:
1. PROVIDE MINIMUM 3" CLEAR COVER FOR ALL REINFORCEMENT, EXCEPT AS NOTED.
  2. USE MIX NO. 6 CEMENT CONCRETE (f'c = 4500 psi) FOR ANTI-SEEP COLLAR AND CRADLE.
  3. USE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A615M, A616/A616M, A617/A617M AND A706/A706M. DO NOT WELD REINFORCING STEEL BARS UNLESS SPECIFIED.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Howard E. Smith*  
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

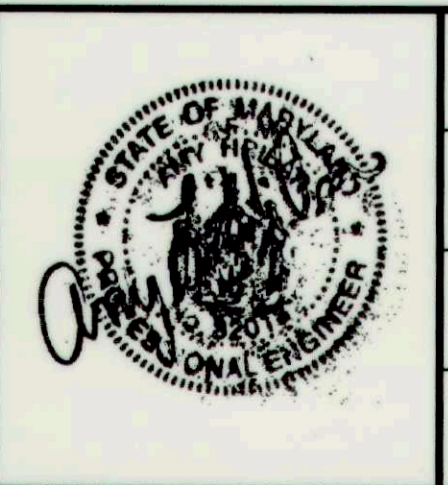
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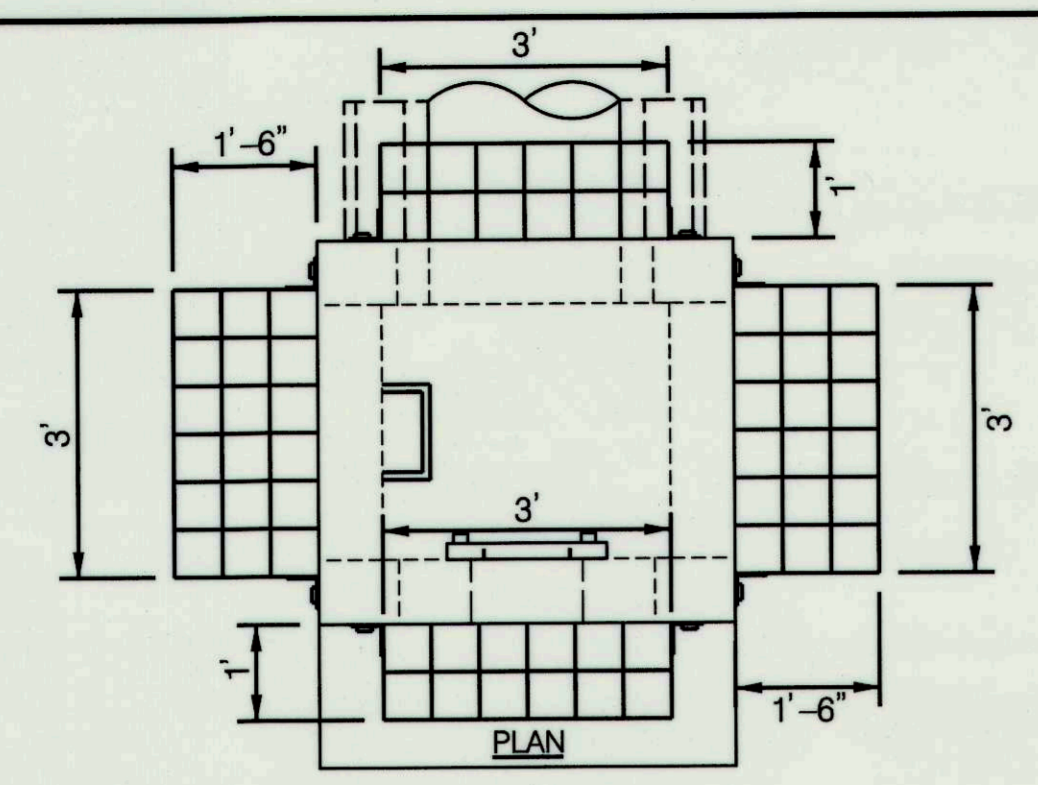
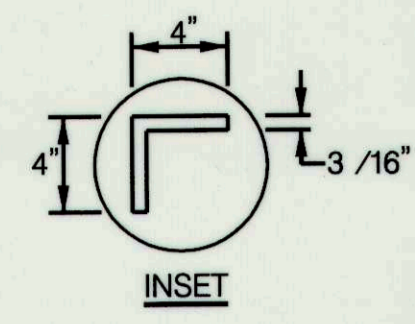


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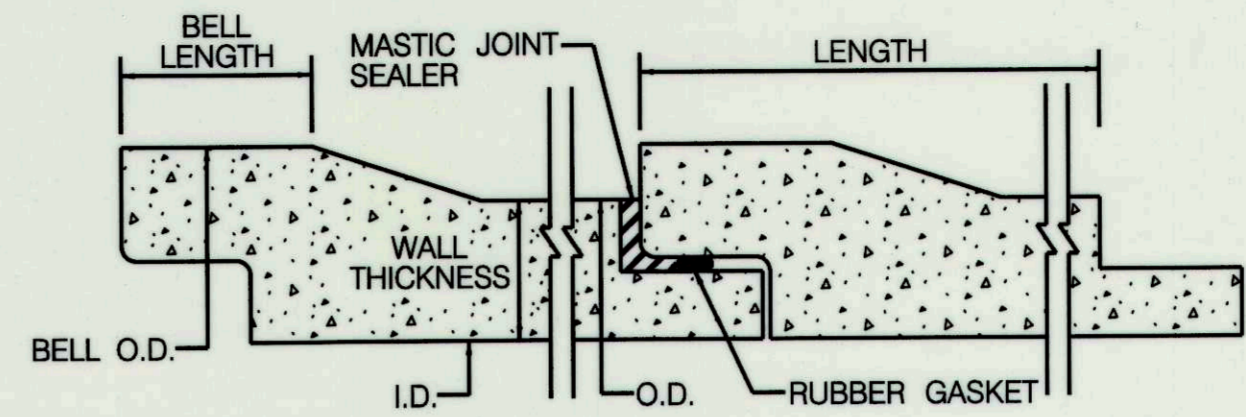
ILCHESTER POINT COURT  
PRINCIPAL SPILLWAY REPLACEMENT PROJECT  
CAPITAL PROJECT #D-1159  
HOWARD COUNTY

**STORMDRAIN PROFILE AND DETAIL SHEET**

SCALE  
AS SHOWN  
SHEET  
3 OF 8



- TRASH RACK CONSTRUCTION NOTES:**
1. FRAME SHALL BE CONSTRUCTED OF 4" X 4" X 3/16" STEEL ANGLE WITH THE CORNERS MITRED AND BUTT WELDED.
  2. THE FRAME SHALL BE PAINTED WITH TWO COATS OF COLD GALVANIZED COMPOUND IN "BATTLESHIP GREY".
  3. BARS SHALL BE #6 REBAR AT 6" CC EACH WAY, HOT-DIPPED GALVANIZED AND FILLET WELDED TO THE ANGLE FRAME.
  4. ALL STEEL SHALL BE ASTM A-36.
  5. TRASH RACK SHALL BE BOLTED ONTO THE OUTSIDE FACE OF THE RISER USING 3/8" DIA STAINLESS STEEL EXPANSION BOLTS, @ 11" CC MIN. 2" FROM EDGE OF CONCRETE RISER. DRILL ANGLE FRAME TO ALLOW PASSAGE OF BOLTS.
  6. ENSURE A 1' CLEARANCE BETWEEN TRASH RACK AND DAM EMBANKMENT SLOPE.



- BARREL JOINT SEALER NOTES:**
1. MASTIC JOINT SEALER TO BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  2. JOINT SEALER SHOULD HAVE WATERTIGHT CONNECTION.
  3. THE SEALER SHALL BE A MIXTURE OF ASPHALT, MINERAL FILLER, AND PETROLEUM SOLVENTS AND SHALL HAVE ADHESIVE AND COHESIVE PROPERTIES.
- THE SEALER SHALL CONFORM TO THE FOLLOWING:

TEST AND METHOD	SPECIFICATION LIMITS
RESIDUES BY EVAPORATION, NONVOLATILE MATTER, D 2939, % MIN.	70
INORGANIC FILLER ON IGNITION, ASH CONTENT, D 2939, %	15-45

**BARREL JOINT SEAL DETAIL**  
NOT TO SCALE

**DISPOSITION OF BARS - DETAIL**

REINFORCING: DEFORMED STEEL BARS (1/2" DIA) CHAMFER, ALL EXPOSED EDGES 1/4" OR AS DIRECTED. CONCRETE SHALL BE MIX NO. 3.

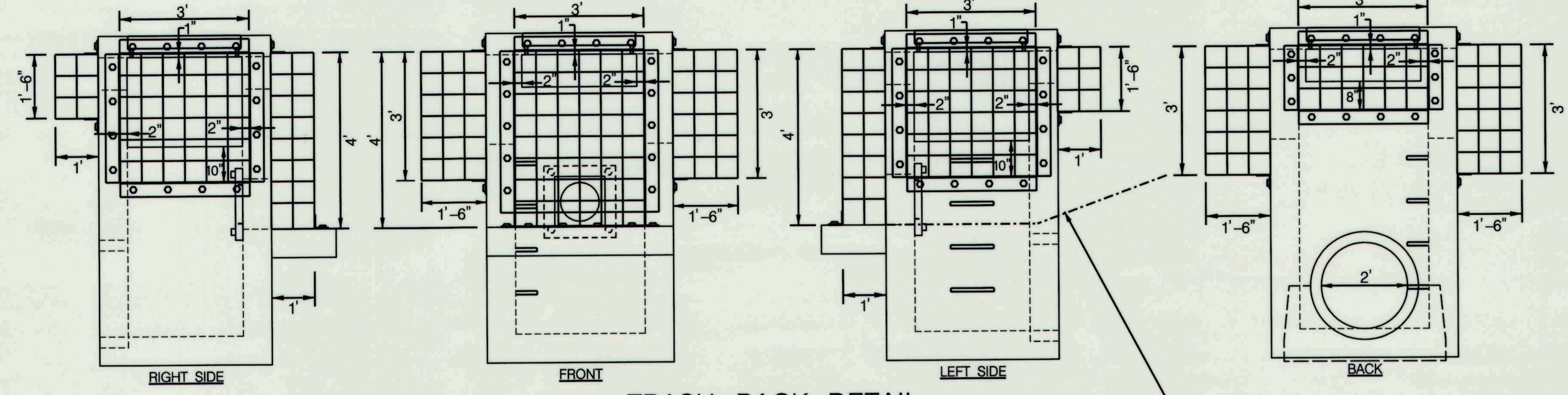
**PLAN**

**ELEVATION**

QUANTITIES FOR ESTIMATION PURPOSES ONLY

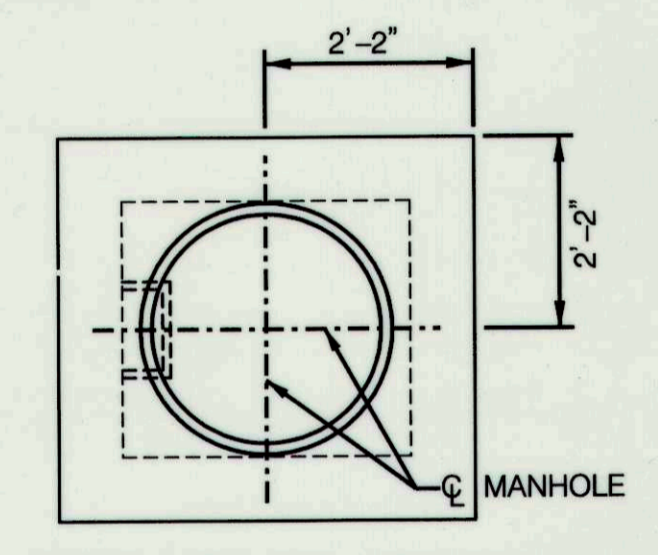
OPENING	DIMENSIONS										QUANTITIES	
	A	B	C	D	E	F	G	H	I	J		CONC. STEEL
12	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
24	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
30	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
36	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34
42	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73
48	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
54	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51
60	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
66	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
72	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68

Howard County, Maryland  
Department of Public Works  
Type 'C' Endwall  
Circular Pipe  
Detail  
D-5.21

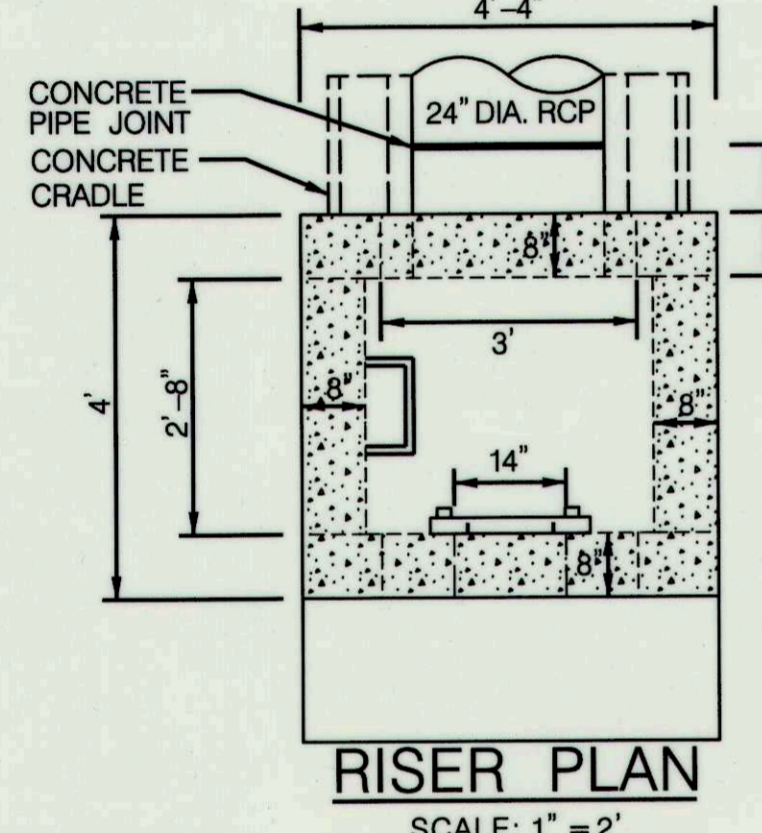


**TRASH RACK DETAIL**  
SCALE: 1" = 2'

PROPOSED GROUND LINE SHOWN TO DEMONSTRATE ADEQUATE TRASH RACK CLEARANCE.

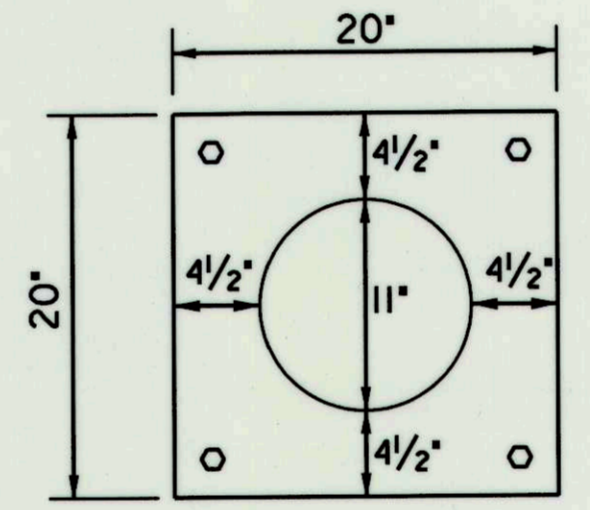


**TOP SLAB PLAN**  
SCALE: 1" = 2'



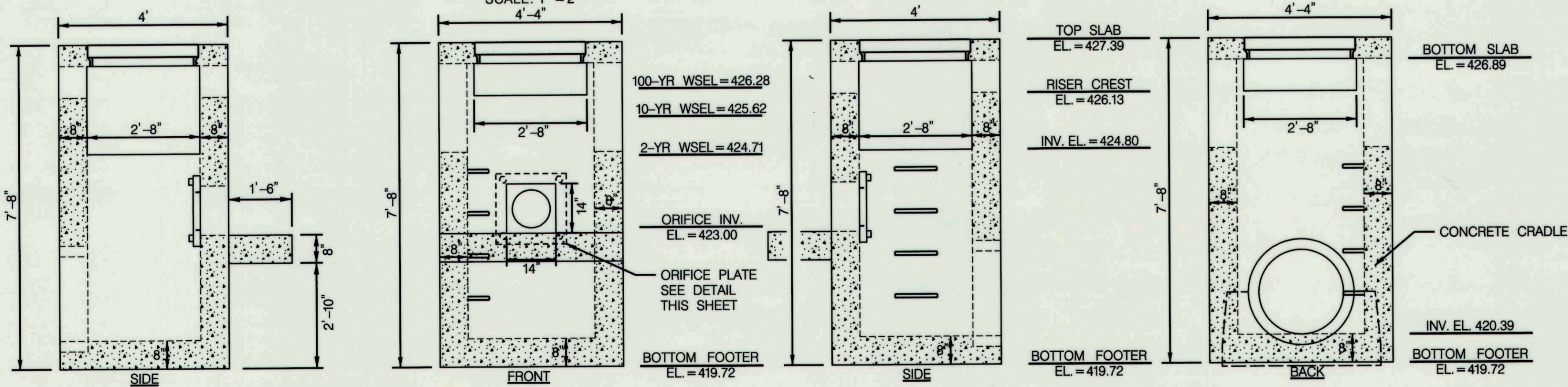
**RISER PLAN**  
SCALE: 1" = 2'

- RISER CONSTRUCTION NOTES:**
1. RISER STEPS SHALL FOLLOW DETAIL G-5.21 FOR MANHOLE AND INLET STEPS
  2. SHA MIX NO. 3 CONCRETE SHALL BE USED AND SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITION OF ACI 301 AND ACI 318.
  3. PRECAST STRUCTURES SHALL BE DESIGNED BY A PRECAST CONCRETE STRUCTURES MANUFACTURER IN ACCORDANCE TO LOADING SPECIFIED IN LATEST EDITIONS OF ASTM C867 AND ASTM C890.
  4. PRECAST STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITIONS OF ASTM C858 AND MARYLAND NRCS POND CODE MD-378.
  5. RESILIENT CONNECTORS BETWEEN MANHOLE STRUCTURES, PIPES AND LATERALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LATEST EDITIONS OF ASTM C923.
  6. OVERALL HEIGHT OF PRECAST IS ADJUSTABLE IN 6" INCREMENTS. FINAL GRADE ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR WITH MIX NO. 3 CONCRETE.
  7. INVERT SHALL BE APPROVED PRECAST SHA MIX NO. 3 CONCRETE. INVERT TO SLOPE DOWN TOWARD OUTLET AT THE RATE OF 2" PER FOOT, OR AS SHOWN ON PLAN OR AS DIRECTED.
  8. REFER TO DETAIL D-4.10 FOR REBAR PLACEMENT.
  9. REFER TO DETAIL D-3.91 SIDEWALK FRAME AND COVER FOR MANHOLE COVER. PER FOOT, OR AS DIRECTED.
  10. FIRST BARREL JOINT OF CONCRETE PIPE SHALL HAVE A WATERTIGHT CONNECTION AND BE PLACED NO MORE THAN 4' FROM RISER.

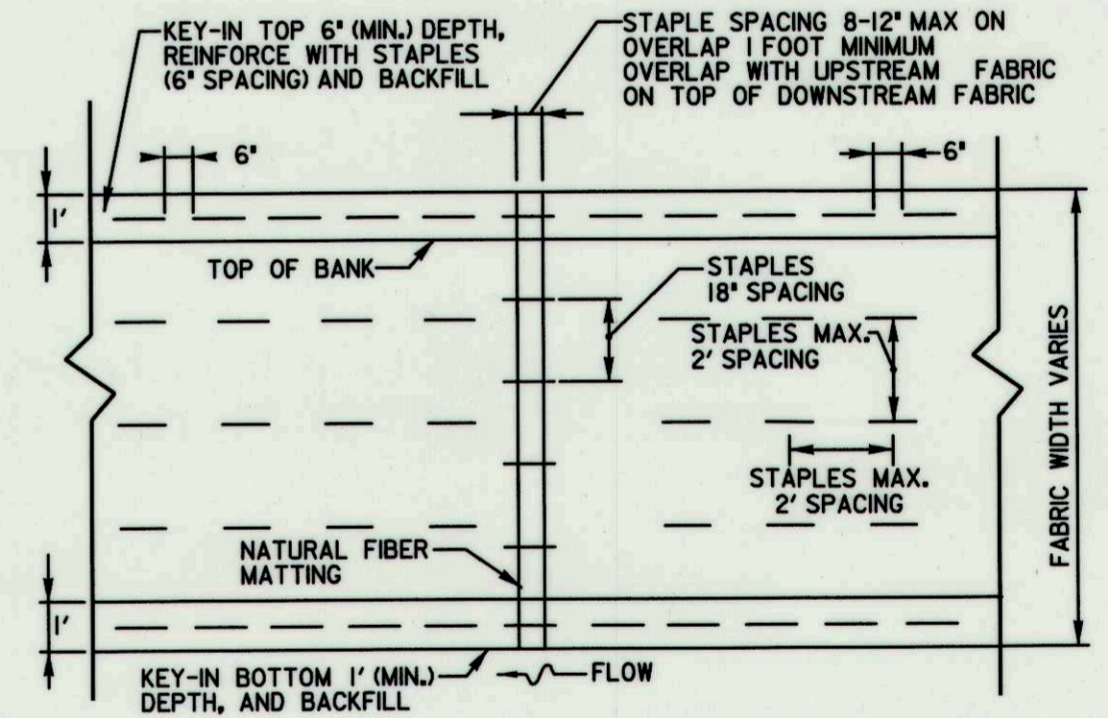


- ORIFICE PLATE NOTES:**
1. 20" X 20" X 1/2" GALVANIZED STEEL ORIFICE PLATE.
  2. 11" DIA. ORIFICE PLATE TO BE BOLTED TO THE INSIDE DOWN STREAM FACE OF CONCRETE RISER USING 1/2" STAINLESS STEEL CONCRETE ANCHORS.

**ORIFICE PLATE**  
NOT TO SCALE



**RISER ELEVATION**  
SCALE: 1" = 2'



**DESCRIPTION**  
Soil stabilization matting shall be placed to the details on the Construction Plans and as directed by the Engineer.

**MATERIALS**

1. Soil stabilization matting shall be degradable matting or an equivalent matting consisting of machine produced matting meeting the following minimum specifications:

Material	Natural Fiber
Thickness	0.25 inches
Weight	9.6 oz/SY
Tensile Strength	4.7 lb./in.
Netting Opening	2.0 x 1.0 in. or less

2. Staples for securing the soil stabilization matting shall be U steel wire with a minimum gauge of 8. The U shaped staples shall average 1 to 1.5 inches wide, the length of the staples shall be 5 inches minimum.

- CONSTRUCTION**
1. The Contractor shall furnish Howard County with specifications and a source of soil stabilization matting for review and approval.
  2. Topsoil and seeding shall be completed before the soil stabilization matting is installed. The matting shall be placed within 24 hours after seeding operations have been completed. Matting shall be laid smoothly and securely upon the seeded bed in the direction of water flow. Stretching shall be avoided.
  3. Where more than one width of matting is required, the ends of each strip shall overlap 1 foot for both vertical and horizontal overlaps. Overlapping shall be done with the higher mat overlapping the lower mat and upstream matting overlapping downstream matting. Matting shall be firmly fastened in place with staples driven vertically into the soil and flush with the surface. Staples shall be placed a maximum of 2 feet apart along the edges and throughout the matting.
  4. On all overlapping edges, staples shall be placed 18 inches apart. At all ends of matting, staples shall be placed 12 inches apart.
  5. The Contractor shall excavate a 1 foot deep trench along all edges of the matting. The matting shall be placed into the trench, pinned, and the trench backfilled and tamped.
- MEASUREMENT AND PAYMENT**
- Soil Stabilization Matting will be measured and paid for at the Contract unit price per square yard actually covered. The payment will be full compensation for furnishing, placing, pinning, staples, fasteners, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

**SOIL STABILIZATION MATTING**  
NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

**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) 313-6444

DES: TW					
DRN: MR					
CHK: CB					
DATE: 2/24/12	BY	NO.	REVISION	DATE	

ILCHESTER POINT COURT  
PRINCIPAL SPILLWAY REPLACEMENT PROJECT  
CAPITAL PROJECT #D-1159  
HOWARD COUNTY

**RISER DETAIL SHEET**

SCALE  
AS SHOWN  
SHEET  
4 OF 8

**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 7:00AM, 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.

**NOTE:**

1. EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE FOR EACH PHASE OF CONSTRUCTION AND CAN ONLY BE REMOVED UPON THE APPROVAL OF THE ENGINEER AND THE SEDIMENT CONTROL INSPECTOR. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE.
3. CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITHIN THE WORK AREA AT THE END OF EACH WORK DAY.

TEMPORARY NO. 2 STONE  
STA 21+05, 105' RT - 18 CY

TEMPORARY CLASS 1 RIPRAP  
OUTFALL FOR DF-1, STA 22+14 11' LT - 4 SY

DEWATERING FILTER BAG  
STA 20+99, 51' LT - 1 EA

DEWATERING PUMP (DP)  
STA 20+50, 26 RT - 1 EA

SAND BAG DAM

FROM	TO	QTY (LF)	REMARKS
20+51, RT	20+62, RT	25 LF	SB-1
20+98, RT	21+06, RT	15 LF	SB-2

DIVERSION FENCE

FROM	TO	QTY (LF)	REMARKS
22+17, LT	22+46, RT	51 LF	DF-1

18" PIPE SLOPE DRAIN

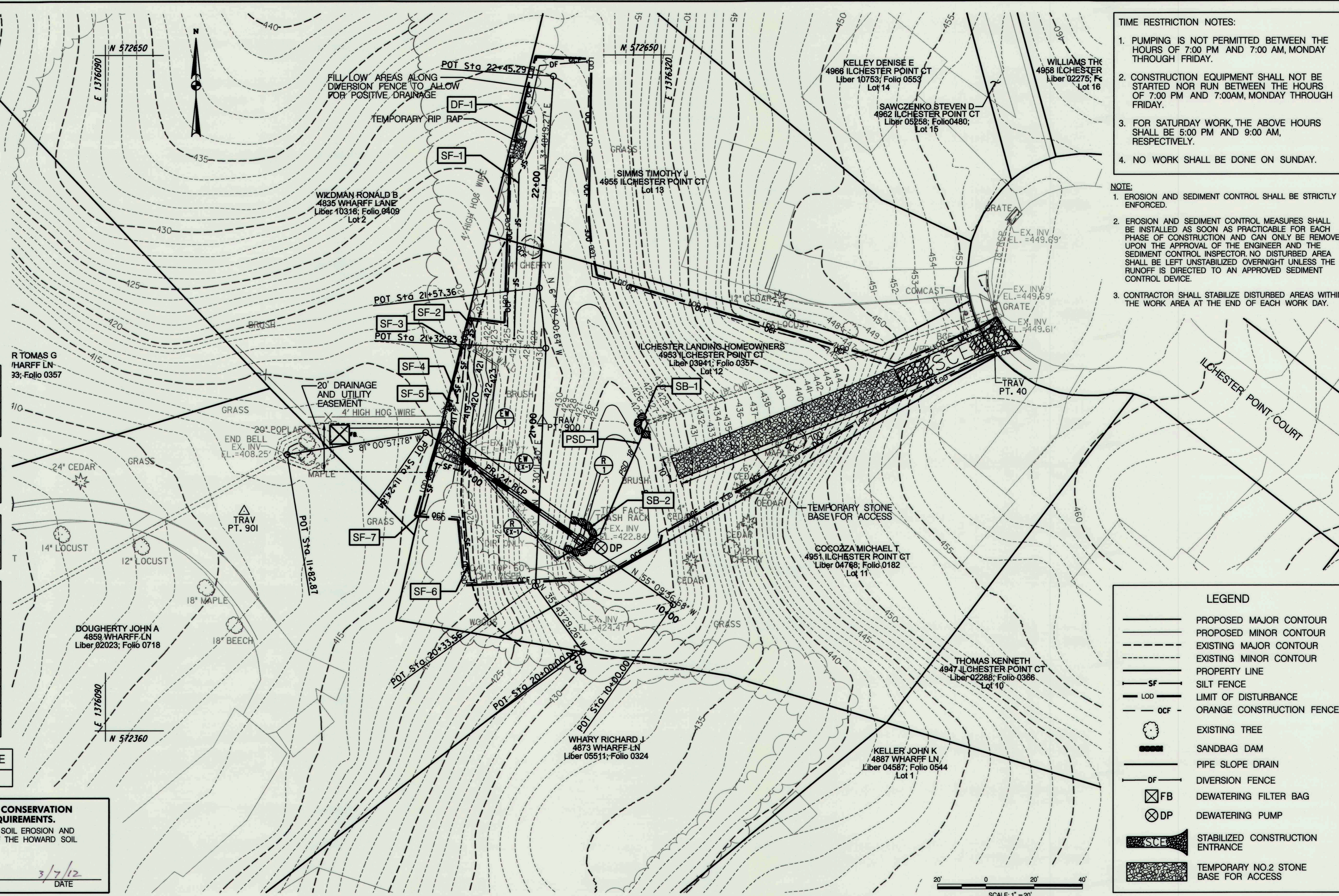
FROM	TO	QTY (LF)	REMARKS
20+88, LT	21+03, RT	131 LF	PSD-1

SILT FENCE

FROM	TO	QTY (LF)	REMARKS
21+36, LT	22+20, LT	85 LF	SF-1
21+31, LT	21+42, LT	12 LF	SF-2
21+17, LT	21+32, LT	16 LF	SF-3
21+08, LT	21+18, LT	10 LF	SF-4
20+80, LT	21+09, LT	32 LF	SF-5
20+36, LT	20+63, LT	30 LF	SF-6
20+63, LT	20+80, LT	30 LF	SF-7

STABILIZED CONSTRUCTION ENTRANCE  
35 TONS - 1 EA

**REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.**  
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*J.P. Robinson* /s/ 3/7/12  
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE



**LEGEND**

- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPERTY LINE
- SF — SILT FENCE
- LOD — LIMIT OF DISTURBANCE
- ocf — ORANGE CONSTRUCTION FENCE
- ⊙ EXISTING TREE
- ▬ SANDBAG DAM
- PIPE SLOPE DRAIN
- DF — DIVERSION FENCE
- ⊗ FB DEWATERING FILTER BAG
- ⊗ DP DEWATERING PUMP
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY NO.2 STONE BASE FOR ACCESS

SCALE: 1" = 20'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Howard E. Selts*  
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES  
DATE: 3/20/12

**McCormick Taylor**  
Engineers & Planners Since 1946  
509 South Exeter Street  
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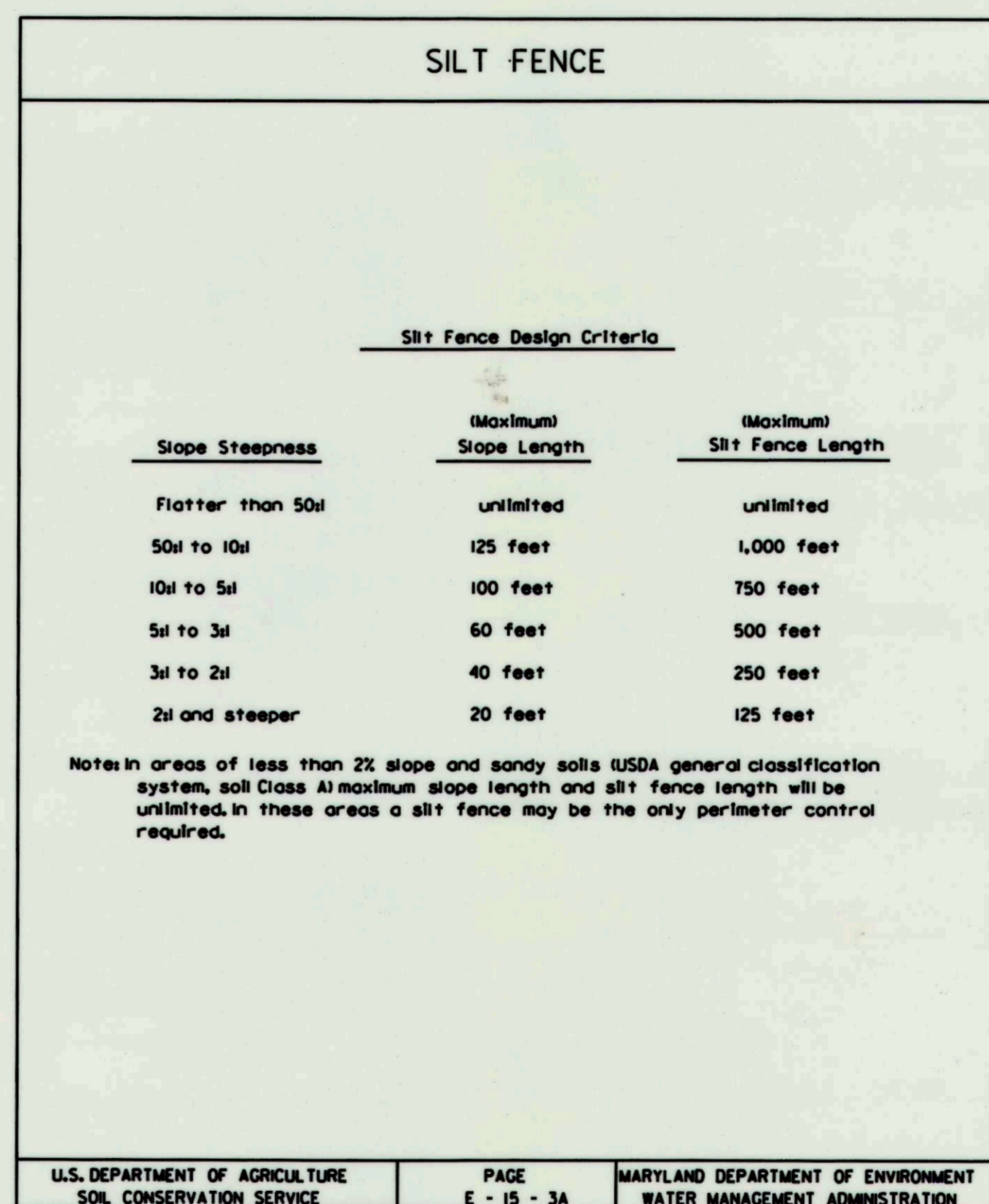
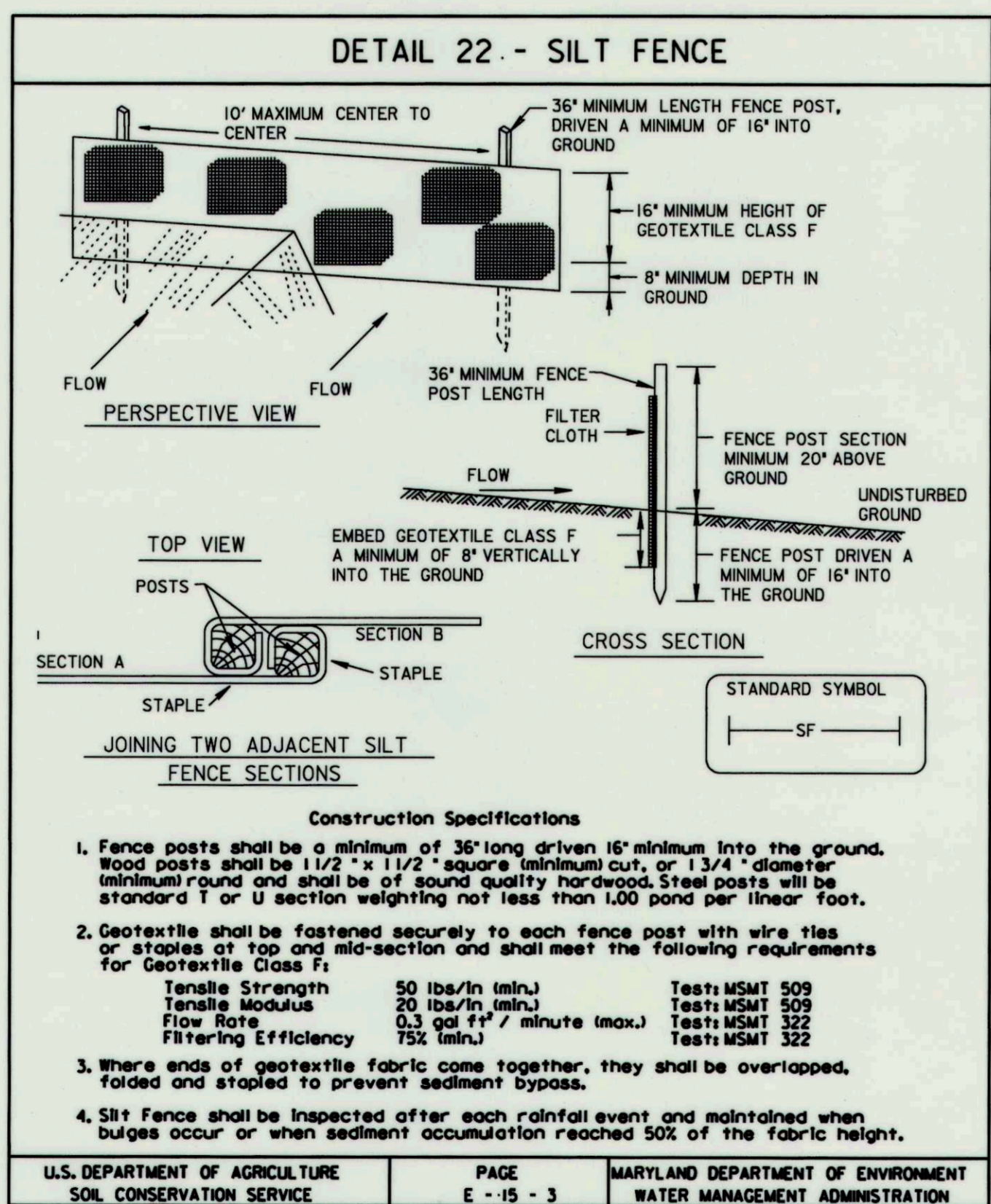
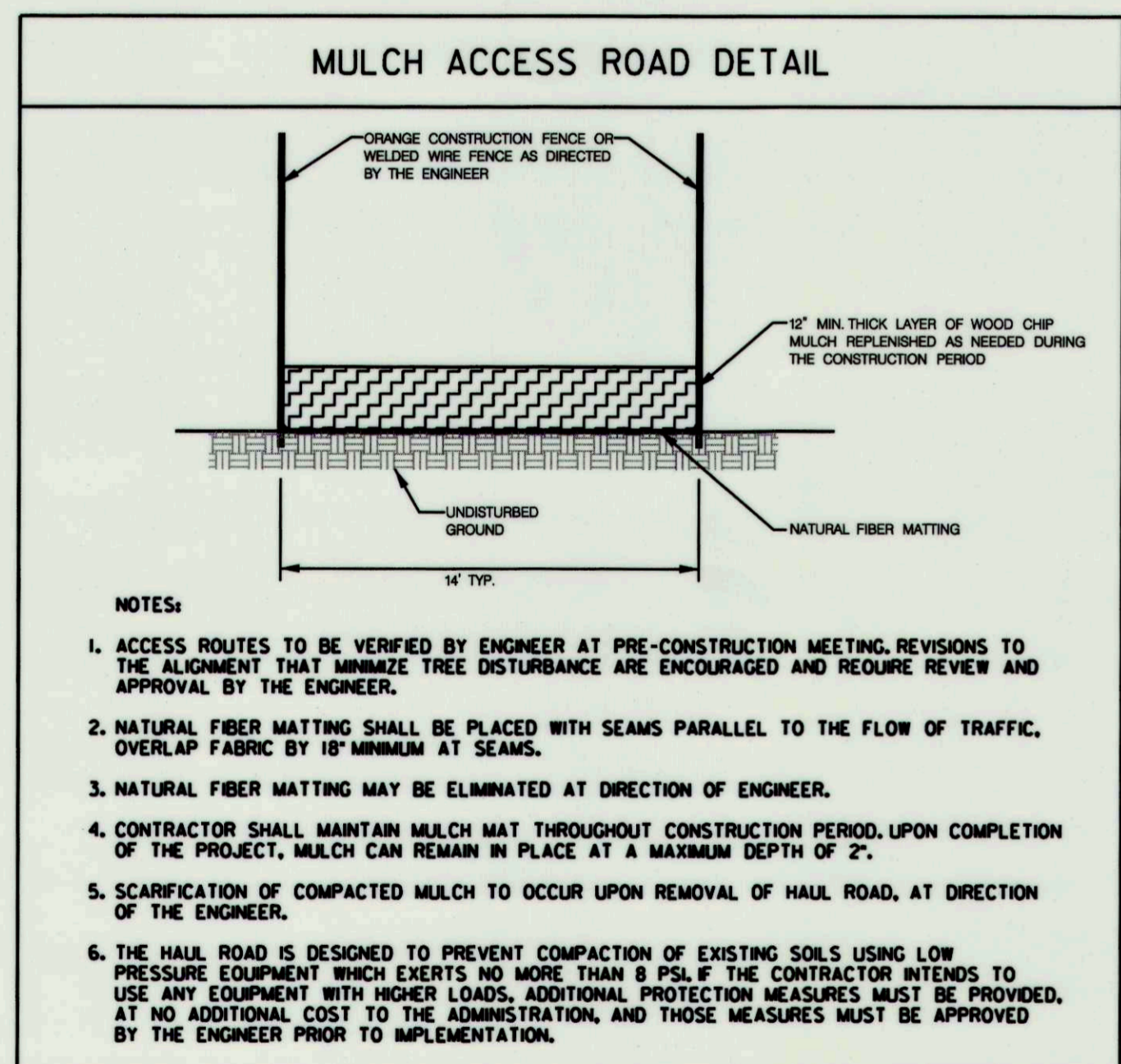
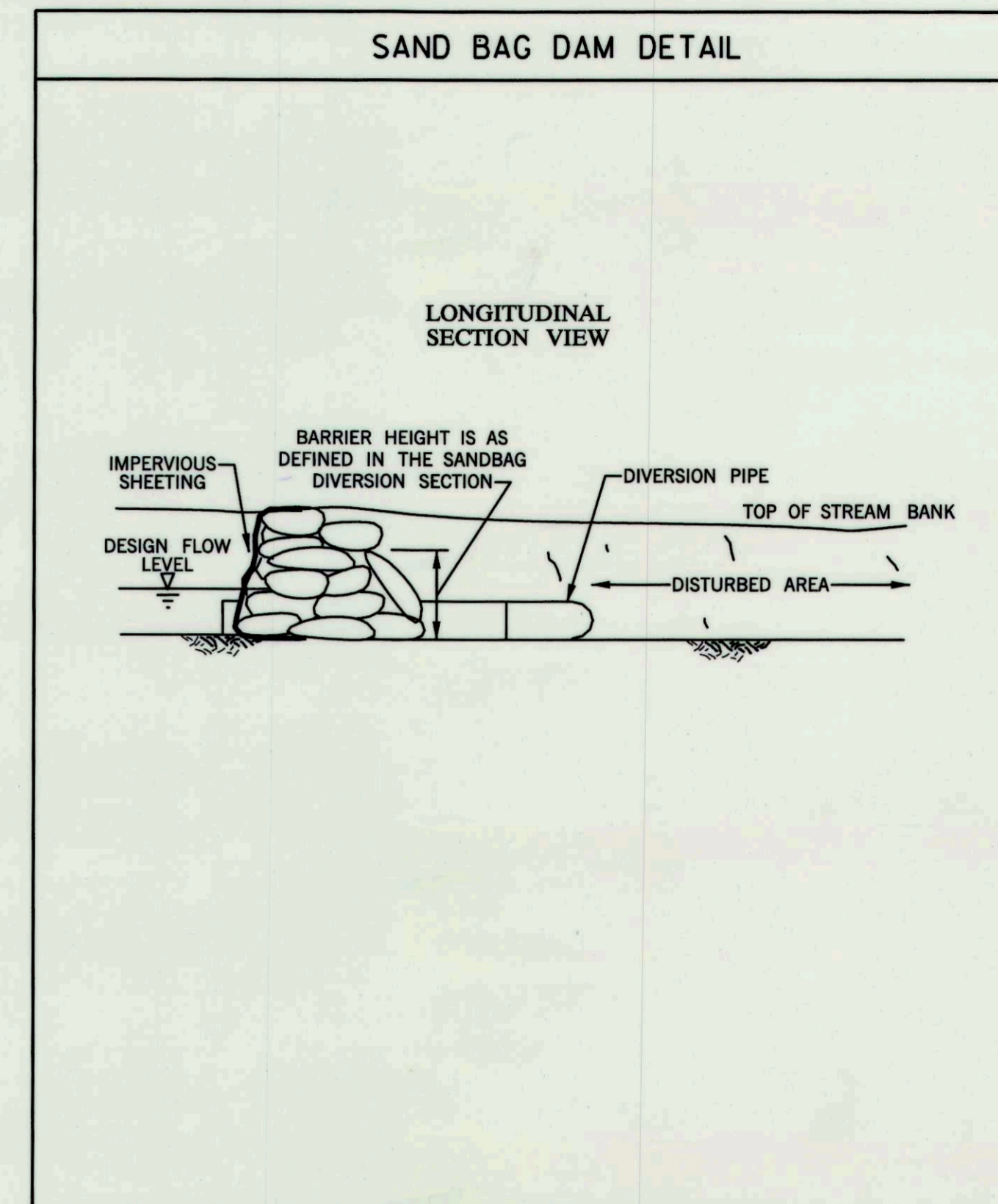
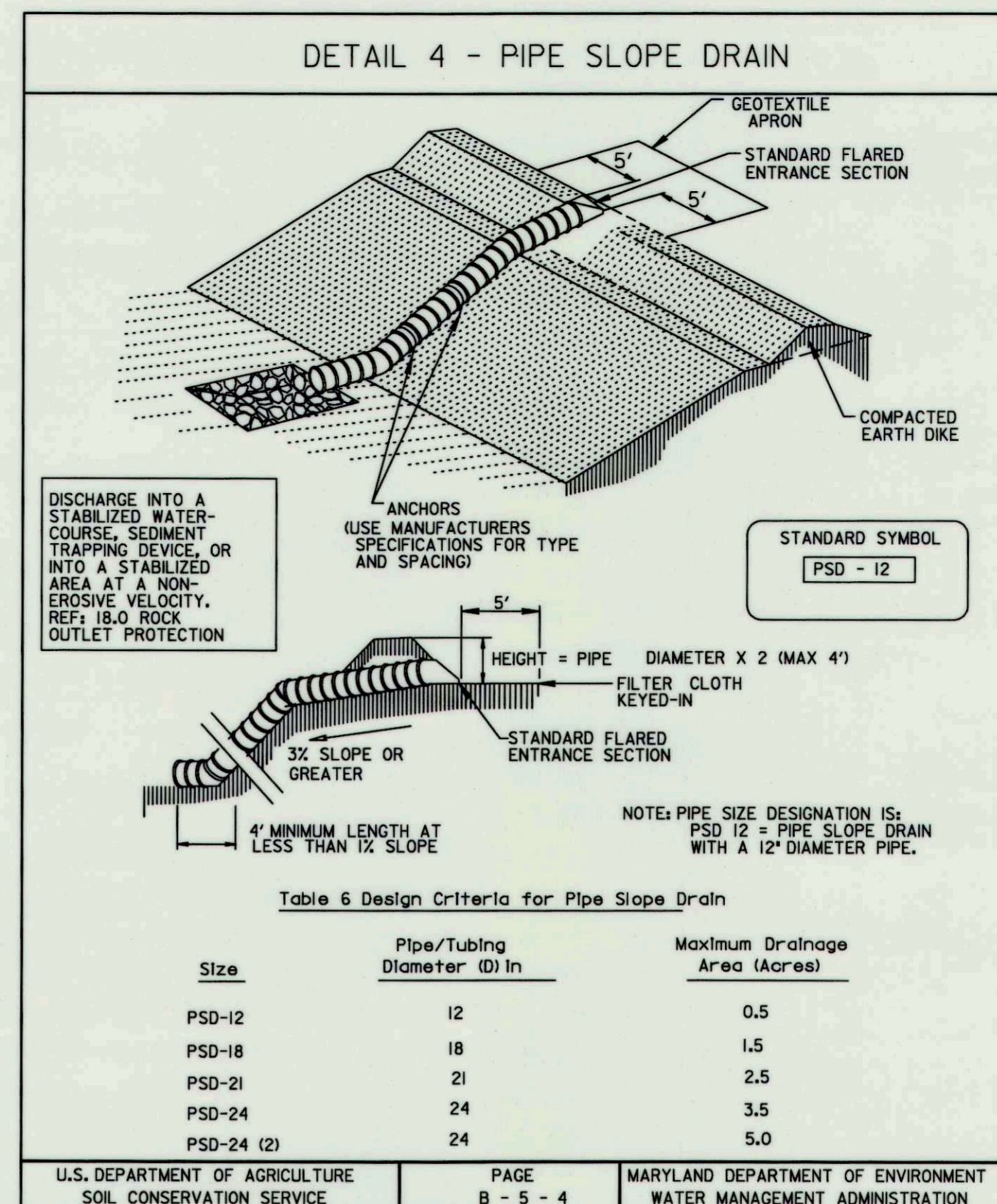
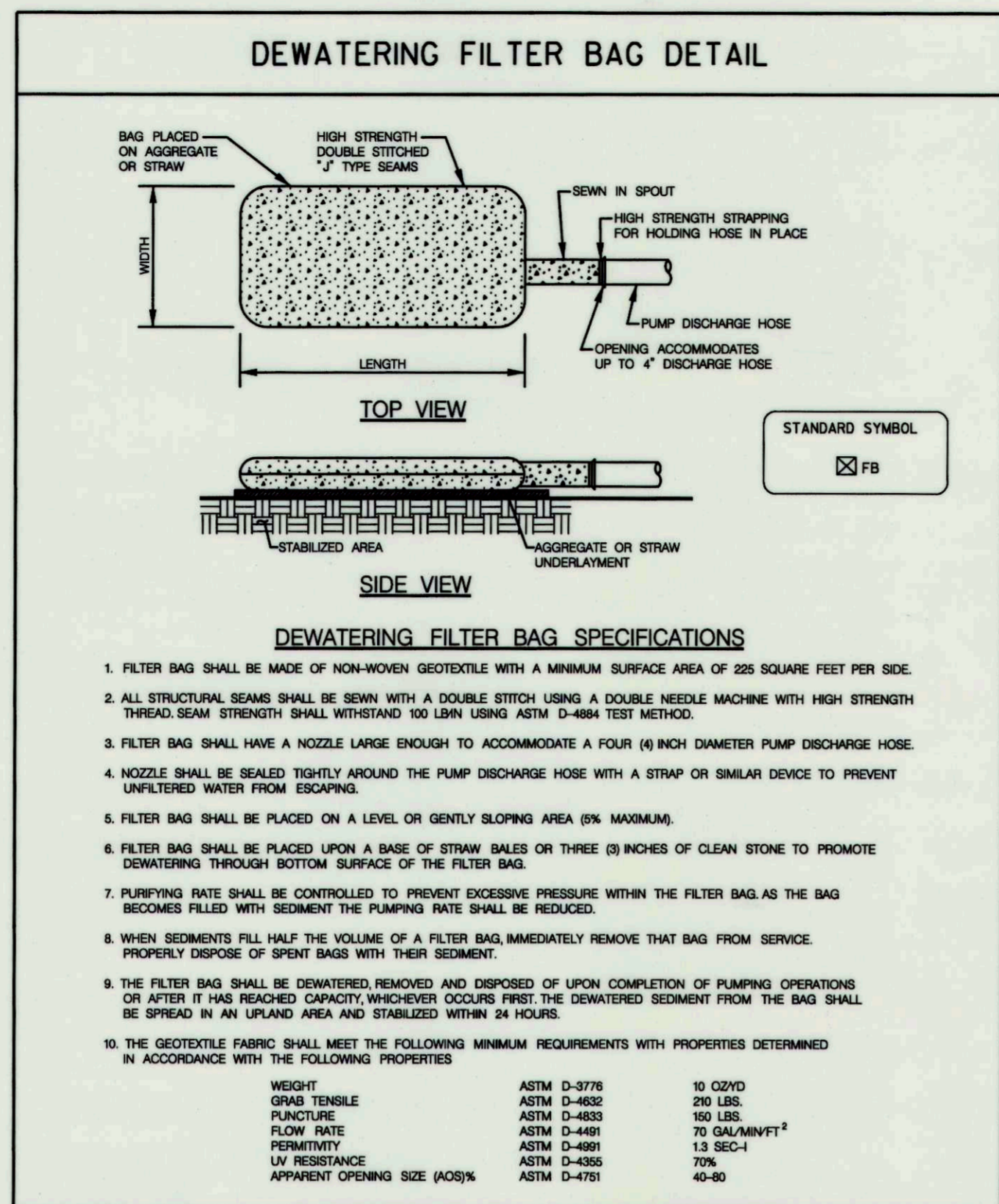
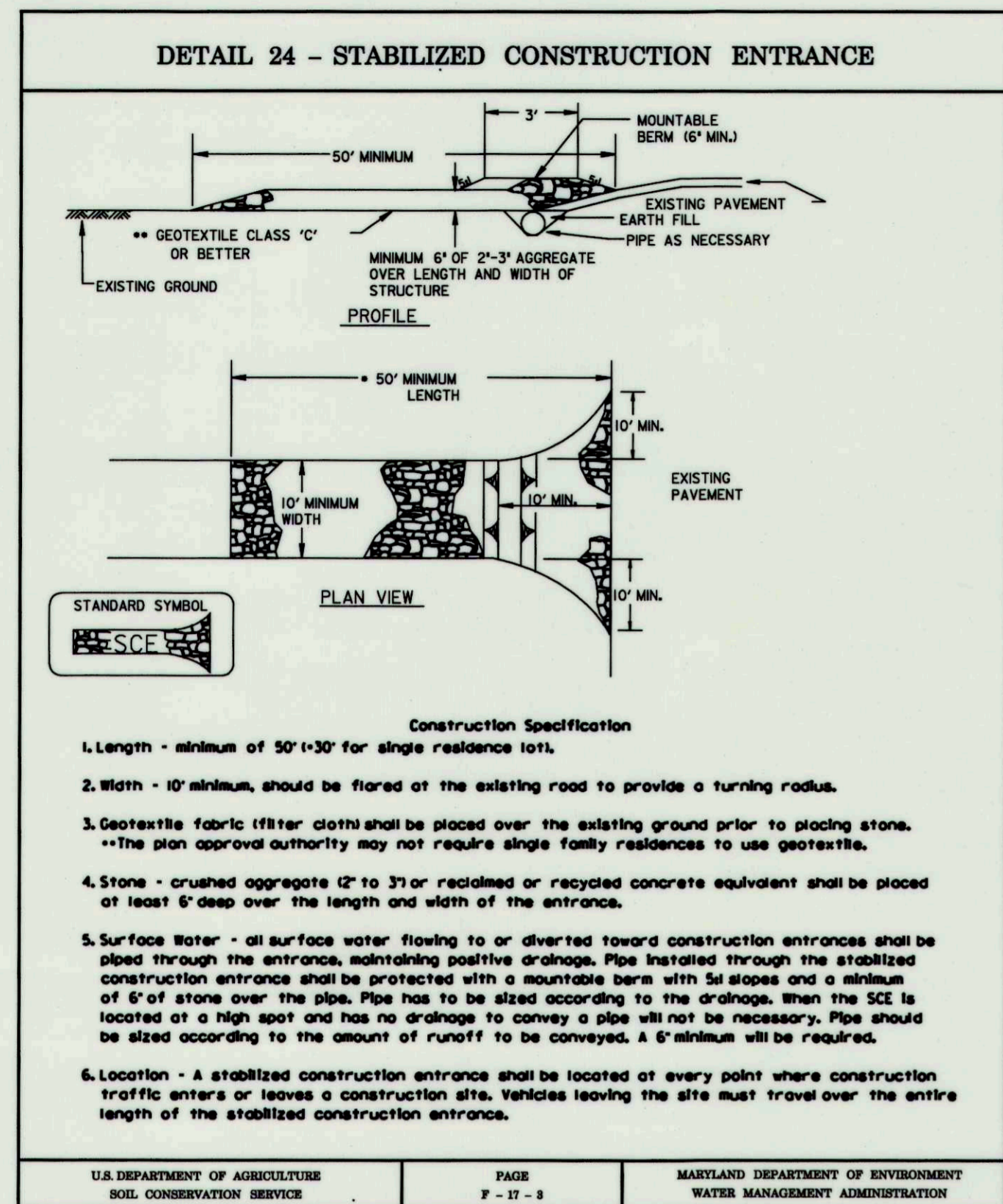
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ILCHESTER POINT COURT  
PRINCIPAL SPILLWAY REPLACEMENT PROJECT  
CAPITAL PROJECT #D-1159  
HOWARD COUNTY  
**EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: 1" = 20'  
SHEET: 5 OF 8







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

*John N. Robertson* 1/8 3/2/12  
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND  <i>Howard E. Salts</i> CHIEF, BUREAU OF ENVIRONMENTAL SERVICES DATE: 3/10/12	<b>McCormick Taylor</b> Engineers & Planners Since 1946  509 South Exeter Street 4th Floor Baltimore, Maryland 21202 (410) 662-7400	<b>Howard County</b> MARYLAND  Storm Water Management Division Bureau of Environmental Services 6751 Columbia Gateway Drive, Suite 514 Columbia, Maryland 21046-3143 (410) 313-6444		DES: TW						ILCHESTER POINT COURT PRINCIPAL SPILLWAY REPLACEMENT PROJECT CAPITAL PROJECT #D-1159 HOWARD COUNTY  <b>EROSION AND SEDIMENT CONTROL DETAIL SHEET</b>  8 OF 8
				DRN: MR						
CHK: CB										
DATE: 2/24/12				BY	NO.	REVISION		DATE		