

STAKE THROUGH CONSTRUCTION -FENCE TO RESTRAIN, IF SLOPE IS GREATER THAN 5 PERCENT. 2"x2"~ STAKES CUT OPEN CORNER OF BAG AND CLAMP ON DEWATERING HOSE TO HOLD ON SLOPES - CONSTRUCTION FENCE FOR RESTRAINT AND AID IN LIFTING USED BAG SECTION 'A-A'

H.E.C. J.O. #97044

SCALE: HOR. 1"=50" VERT. 1"=5"

#### NOTES:

FILTER BAG SHALL BE PLACED ON A SLOPING OR LEVEL, WELL GRADED VEGETATED SITE SUCH THAT WATER WILL FLOW AWAY FROM DEVICE AND ANY WORK AREAS.

WIDTH AND LENGTH SHALL BE AS SHOWN.

THE FILTER BAG MUST BE STAKED IN PLACE AND SECURED TO THE PUMP DISCHARGE LINE.

FILTER BAG SHALL NOT BE USED FOR DISCHARGE FLOWS GREATER THAN 300 GPM.

DEVICE SHALL BE REMOVED AND DISPOSED OF AFTER BAG IS FILLED WITH SEDIMENT, SEDIMENT FROM BAG SHALL BE SPREAD IN AN UPLAND AREA.

FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TEST: MSMT 509
TEST: MSMT 322
TEST: MSMT 322
TEST: MSMT 322

FILTER BAG TEMPORARY EROSION CONTROL MEASURE

# WORKING IN NONTIDAL WETLANDS"

- NO MATERIALS OR EQUIPMENT MAY BE STORED OR STOCKPILED WITHIN NONTIDAL WETLAND, 25-FOOT WETLANDS BUFFER OR 100-YEAR FLOODPLAIN.
- 2. STOCKPILE AND MAINTAIN SEPARATELY THE TOP 6"-12" OF TOPSOIL MATERIAL EXCAVATED FROM NONTIDAL WETLANDS. TO BE REPLACED AS THE TOP LAYER OF THE BACKFILLED MATERIAL;
- 3. REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UNPLAND DISPOSAL AREA;
- 4. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR CUT OF THE NONTIDAL WETLAND;
- 5. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS:
- 6. USE PREVIOUSLY EVCAVATED MATERIALS AS BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE, USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL;
- 7. ALL STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HOREDUM SP.) OATS (UNIOLA SP.) AND/OR RYE (SECALE CEREALE). THESE SPECIES ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NONPERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN THE WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATION OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATION;
- 9. TO PROTECT IMPORTANT AGUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM AS FOLLOWS:

USE I WATERS. INSTREAM WORK MAY NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HICKS ENGINEERING CO. INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 402
TOWSON, MARYLAND 21286-3760 DRN: CHK: (410) 494-0001 Mobert / Dian 6-29-99 DATE: 6/22/99 ACT. CHIEF. UTILATY DESIGN DIVISION CHIEF, BUREAU OF UTILITIES DATE DATE REVISION DATE 600' SCALE MAP NO. 47

SEWER MAIN

PROF ILE

BLOCK NO. 3,48 9

INTERSTATE ROUTE 95 - SEWER MAIN CROSSING & SUBINTERCEPTOR

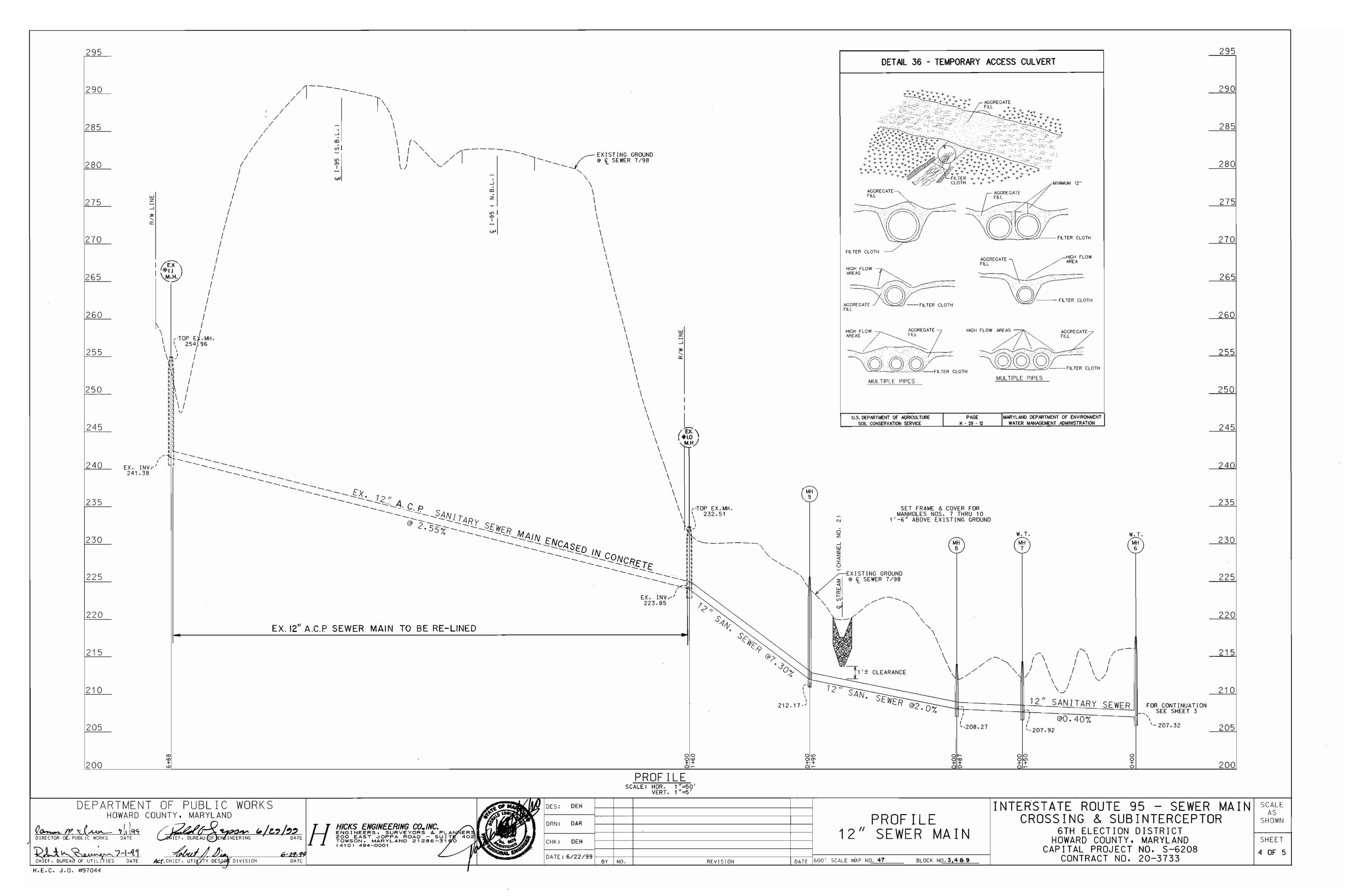
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. S-6208 CONTRACT NO. 20-3733

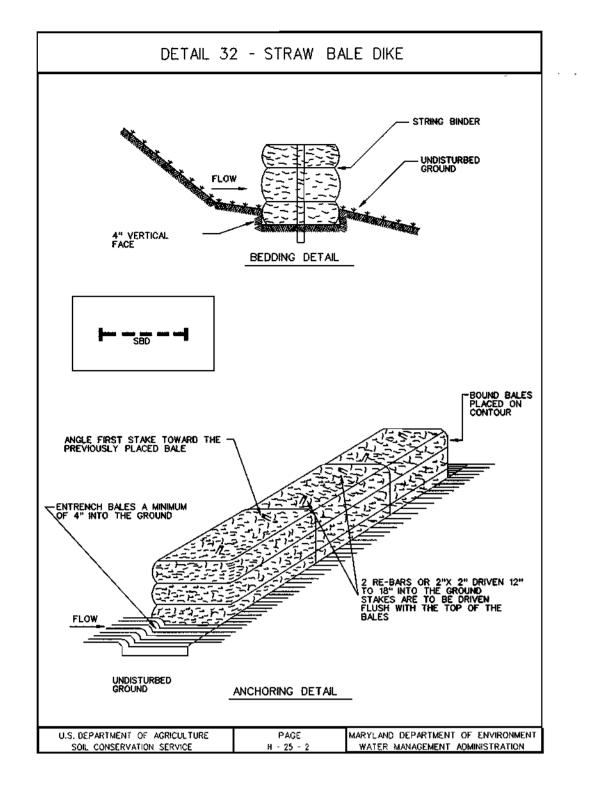
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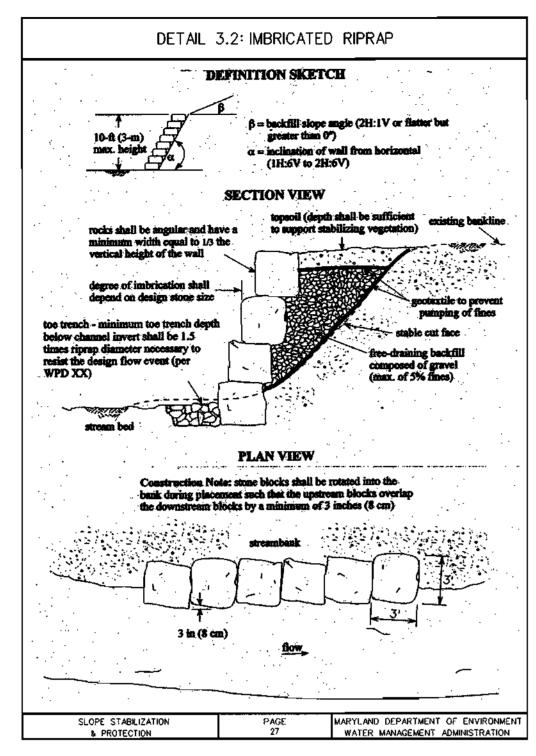
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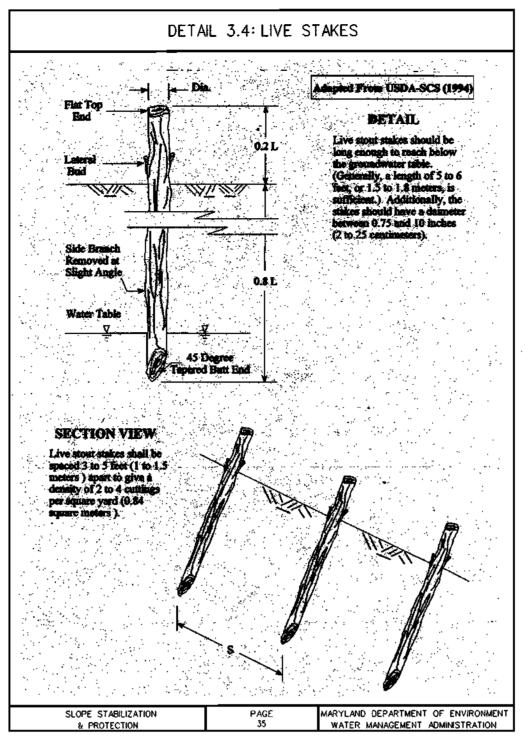
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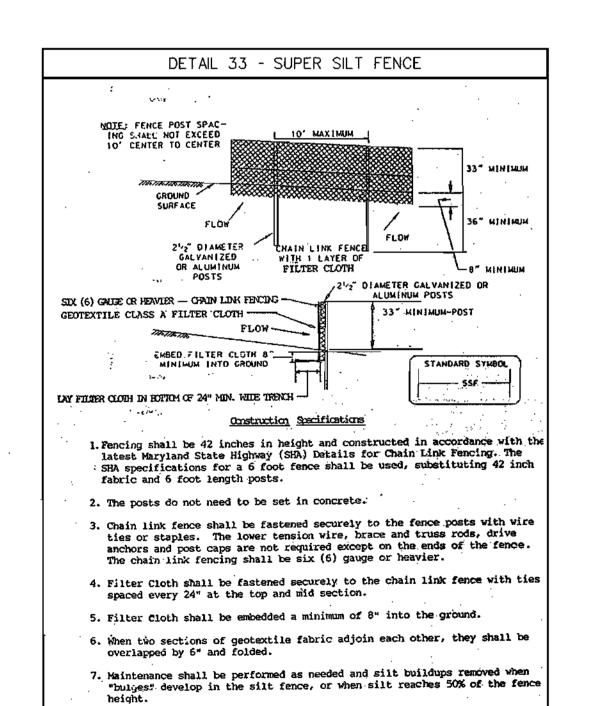
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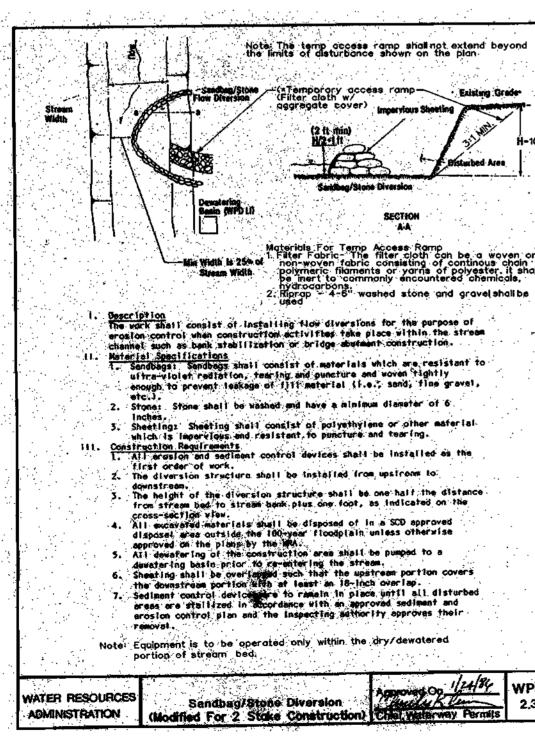


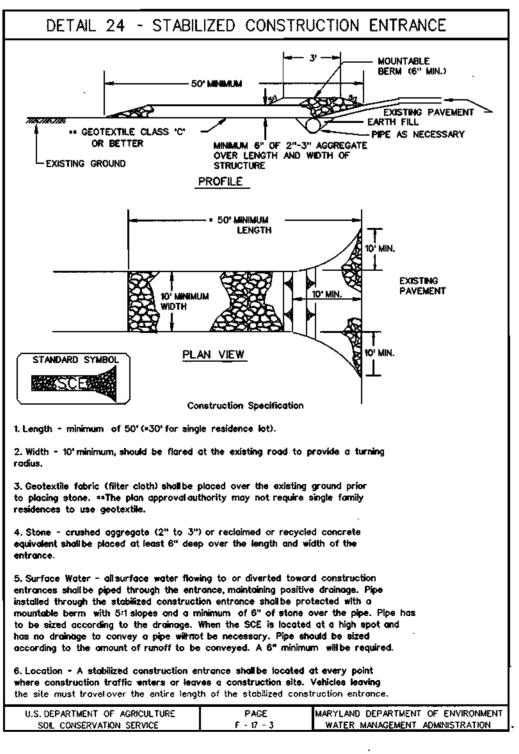












## SEED AND MULCH SEED AND MULCH RIP-RAP CLASS III SEED AND MULCH MH 2 TO MH 3 STA, 0+00 TO STA. 1+68 SEED AND MULCH MH 3 TO MH 4 STA, 0+00 TO STA, 1+08 SEED AND MULCH SEED AND MULCH MH 5 TO MH 6 STA. 0+00 TO STA. 2+07 SEED AND MULCH MH 6 TO MH 7 STA. 0+00 TO STA. 1+50 SEED AND MULCH SEED AND MULCH SEED AND MULCH RIP-RAP CLASS III SEED AND MULCH SEED AND MULCH DETAIL 30 EROSION CONTROL MATTING CROSS-SECTION 4" OVERLAP OF MATTING -STRIPS WHERE TWO OF MORE STRIP WIDTHS ARE REQUIRED, ATTACH STAPLES ON 18 INCH

STAPLE OUTSIDE EDGE OF MATTING -

ON 2" CENTERS

U.S. DEPARTMENT OF AGRICULTURE

1. OBTAIN A GRADIN

AND PERMITS.

RESTORATION SCHEDULE - 12" SANITARY

#### EROSION CONTROL MATTING NOTES

- KEY-IN THE MATTING BY PLACING TOP ENDS OF THE MATTING IN A NARROW TRENCH. 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
- 2. STAPLES THE 4" OVERLAP IN THE CHANNEL CENTER USING ON 18" SPACING BETWEEN STAPLES.
- BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL
- . STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER,
- WHERE ON ROLL OF MATTING ENDS AND ANOTHER BEGINS. THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4". SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
- THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES. NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

SEQUENCE OF	CONSTRUCTION		TIME OF COMPLETE
NG PERMIT FROM HOWARD	COUNTY DEPARTMENT OF	INSPECTIONS, LICENSES,	0.5 WEEKS

STAPLE OUTSIDE

- EDGE OF MATTING

ON 2" CENTERS

TYPICAL STAPLES NO. 11

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

GUAGE WIRE

. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO 0.5 WEEKS STARTING DATE.

3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD 1.0 WEEKS COUNTY DESIGN MANUAL VOL. IV. UTILIZE FILTER BAG SEDIMENT CONTROL MEASURE. WHERE DIRECTED BY THE ENGINEER IN THE FIELD. 1. EXCAVATE AND INSTALL PROPOSED 12"SEWER MAIN. INSTALL IMBRICATED RIP-RAP (SEE 6.0 WEEKS

INSTALLATION NOTES, SHEET 1) AND LIVE STAKES AS SHOWN, DURING CONSTRUCTION OF

12"SEWER MAIN, PROVIDE TEMPORARY SEEDING EXCLUSIVE OF AREAS INDICATED TO BE IMBRICATED RIP-RAP OR LIVE STAKES. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD 2.0 WEEKS COUNTY STANDARDS.

6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES. 7. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING IN

CONJUNCTION WITH EROSION CONTROL MATTING.

DATE 600' SCALE MAP NO. 47

NOTES & DETAILS

BLOCK NO. 3, 4 & 9.

0.5 WEEKS

0.5 WEEKS

## INTERSTATE ROUTE 95 - SEWER MAIN CROSSING & SUBINTERCEPTOR

6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. S-6208 CONTRACT NO. 20-3733

UTILITY NOTES

1.	OPEN DAILY	THAT	SECTION	OF	TRENCH	THAT	CAN	BE	BACKF ILLED	AND	STABILIZED	
	EACH DAY.											

2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.

3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

#### STANDARD SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING, 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	N/A ACRES
	AREA DISTURBED	1.47 ACRES±
	AREA TO BE ROOFED OR PAVED	O ACRES±
	AREA TO BE VEGETATIVELY STABILIZED	1.47 ACRES±
	TOTAL CUT	590 CU. YDS.
	TOTAL FILL	N/A CU. YDS.
	OFFSITE WASTE/BORROW AREA LOCATION-TO	BE DETERMINED BY THE CONTRACTOR.

- 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 CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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.

## Seeding grass and legumes to establish ground cover for a minimum period of one year on disturbed areas Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardiness is not put on the construction plans and completed, then Table 25 must be put on the plans. Additional planting specifications for exceptional sites such as shorelines, streambanks, or dunes or for special purposes such as wildlife or sesthetic treatment may be found in USDA-SCS Technical Field Office Guide, Sention 342 - Critical Area Planting For special lawn maintenance areas, see Sections IV Sed

- ii. For sites having disturbed area over 5 acres, the rates shown on this table shall be deleted and the rates recommended by the soil testing agency shall be written in.
- iii. For areas receiving tow maintenance, apply ureaform fertilizer (46-0-0) at 3-1/2 lbs/1000 sq.ft. (150 lbs/ac), in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

		Permanent	Seeding S	ommary	ing in the state of the state o		
Seed Mixture	(For Hardiness Z (From Table 25)	10.17.	₹ 200 a 200 a		. / " / " "		Lime
No. Species	N N A A A A A A A A A A A A A A A A A A	eeding Sates	Seeding Depths	N	P205	K20	Rate
RENTUCKY SUPERASS (50%) CREEPING RED 2 FESCUE OR A HARD PESCUE (40%) RED 10P (10%)	150	3/1-5/15 8/15-10/15	1-2 INCHES				
TALL PESCUE (1937) PERSONIAL RYCGRASS (10%) RENTRICKY BLIEGRASS (15%)	125 15 10	3/1-5/15 8/15-10/15	1-2 INCHES	90 lb/sc (2.0 lb/ 1000 st)	175 lb/sc (4 lb/ 1000 sf)	175 lb/ac (4 lb/: 1000 st)	2 tons/ac (100 lb/ 1000 sf)

4.14		(From Table	25)			(10-20-20)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. rme
	Species	Application Rate (lb/sc)	Seeding Dates	Seeding Depths	z	.P205	K20	Rate
	RENTUCKY  8. UEBRASS(50%)  CREEPTING RED  FESCUE OR A HARD  PESCUE (40%)  RED TOP (10%)	150	3/1-5/15 8/15-10/15	1-2 INCHES				
	TALL FESCUE (85%) PEREMIAL RYEGRASS (10%) REMINICKY OLIEGRASS (5%)	125 15 10	3/1-5/15 8/15-10/15	1-2 INCHES	90 lb/sc (2.0 lb/ 1000 sl)	175 Hb/sc (4 lb/ 1000 sf)	175 lb/ac (4 lb/: 1000 st)	2 tons/ac (100 lb/ 1000 sf)
			,				<u> </u>	

RMCCL LORVERS OF SECURIOR CONTROL	. ,
Section II - Temperary Seeding  Vegetation - annual grass of grain used to provide cover on disturbed areas for up to 12	months. For longer
duration of vegetative cover, Perminant Seeding is required.	nome. To reage.
A. Seed Mixtures - Temporary Secting	
1. Select one of more of the species or mixtures listed in Table 26 for the approp	riste Plant Hardiness

Zone (from Figure 1) and enter them in the Temporary, Seeding Summary below, along with application rates, peculiar deter and seeding depths. If this Summary is not put on the plans and completed, then Table 26 must be put on the plans.

For sijes having soid tests performed, the rates thown on this table shall be deleted and the rates accommended by the testing egicley shall be written in. Soil tests are not required for Temporary Seeding.

Temporary Seeding Summary

Sold Mixte	e (Bardiness Z. Prom Table 2	Fertilizer Raie	Lime Rate		
Species	Application Rate (lb/sc)	Seeding Dates	Seeding Dopths	(10-16-10)	
THE PLUS FEDSTAL MELET	150	. \$/ \/ 10745 \$/ F 1V.15			
				600 th/ac (15 1b/1000 st)	2 tons/sc (100 tb/1000 st)
A Company	Section Section		4		A State of the sta

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

MODIFIED

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

6-29-99 ACT CHIEF . UTICITY DESIGN DIVISION

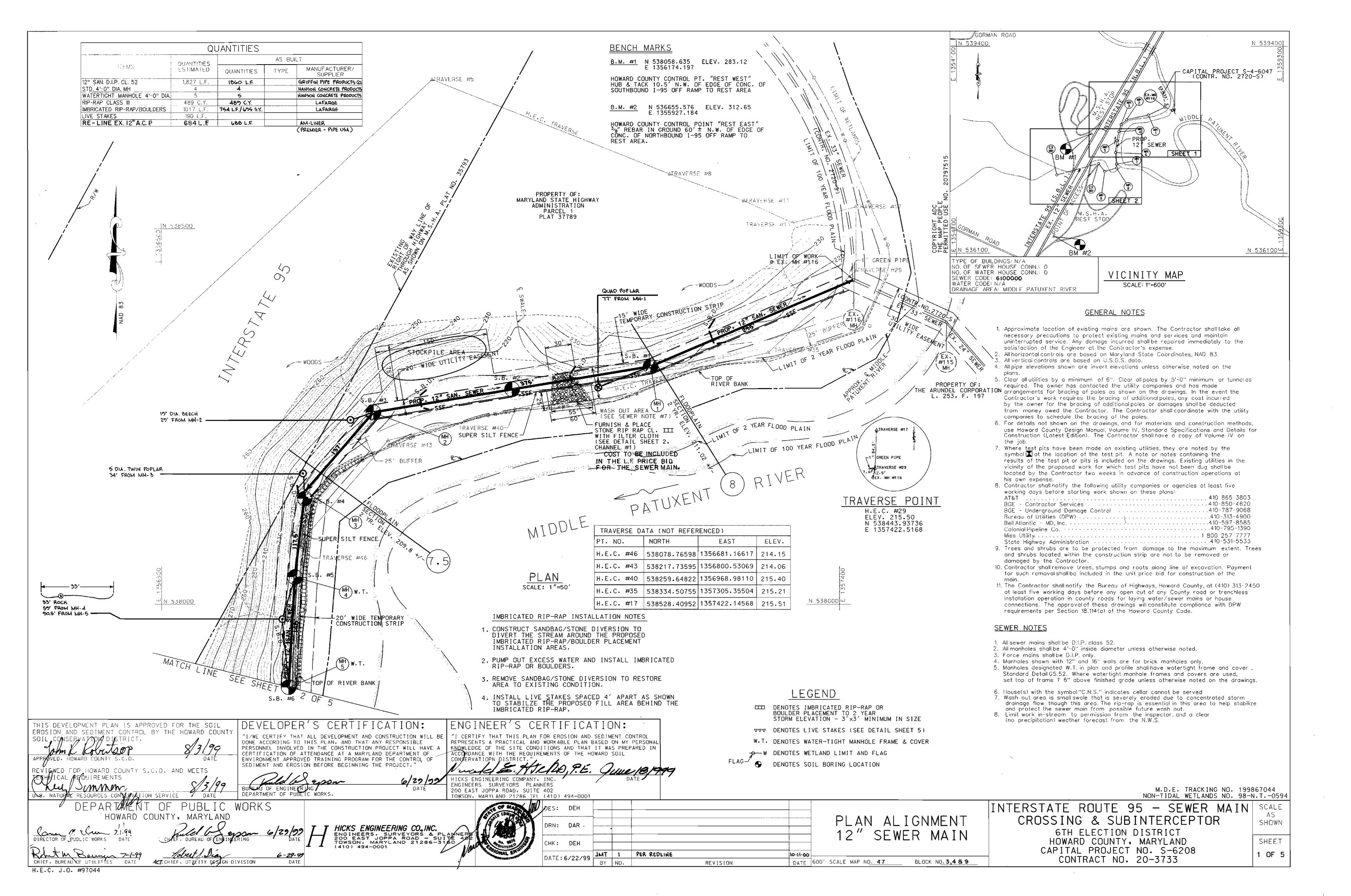
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

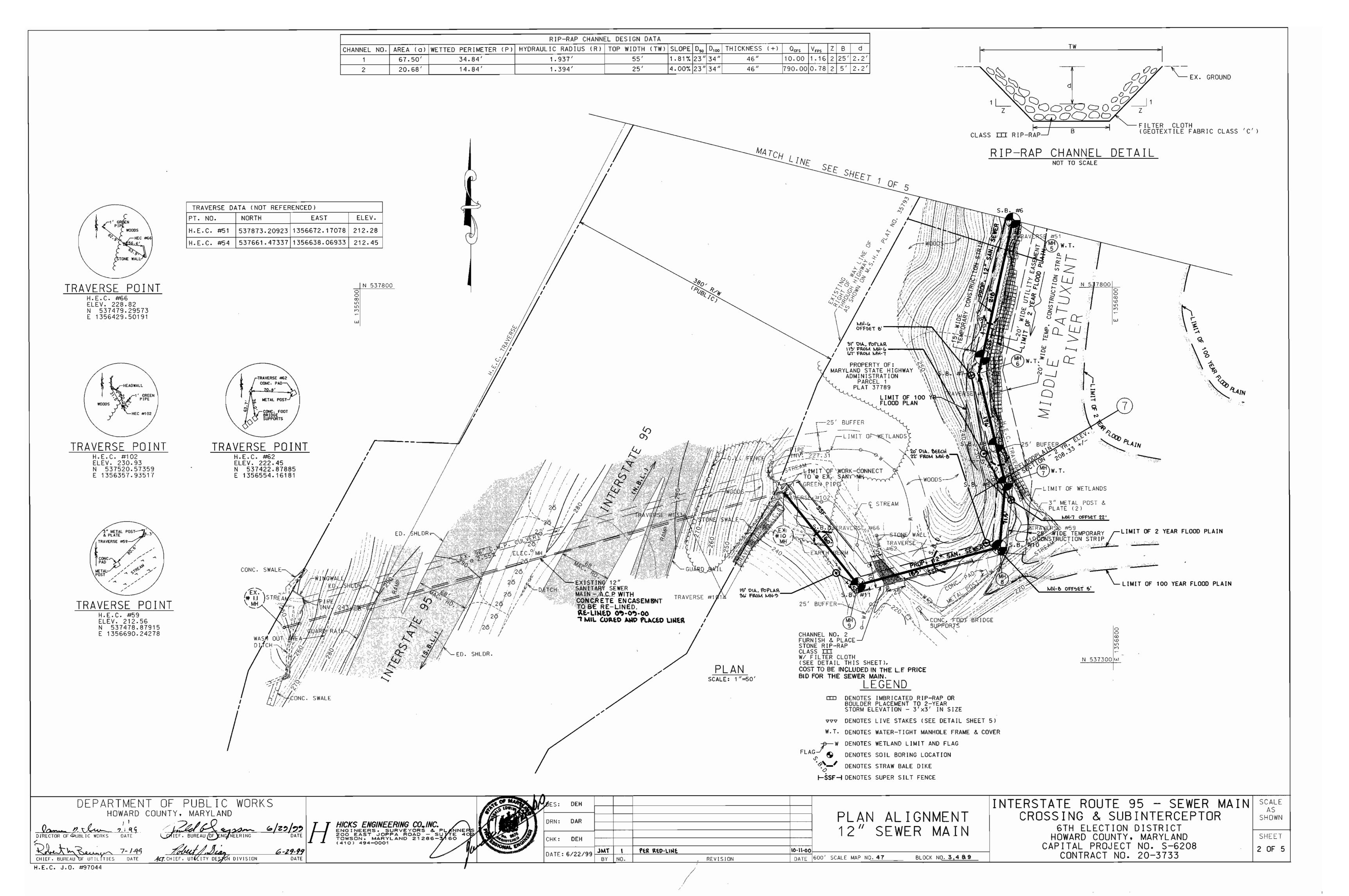
ENGINEERS, SURVEYORS & PLANNERS 200 EAST JOPPA ROAD - SUITE 407 TOWSON, MARYLAND 21286-3160 (410) 494-0001

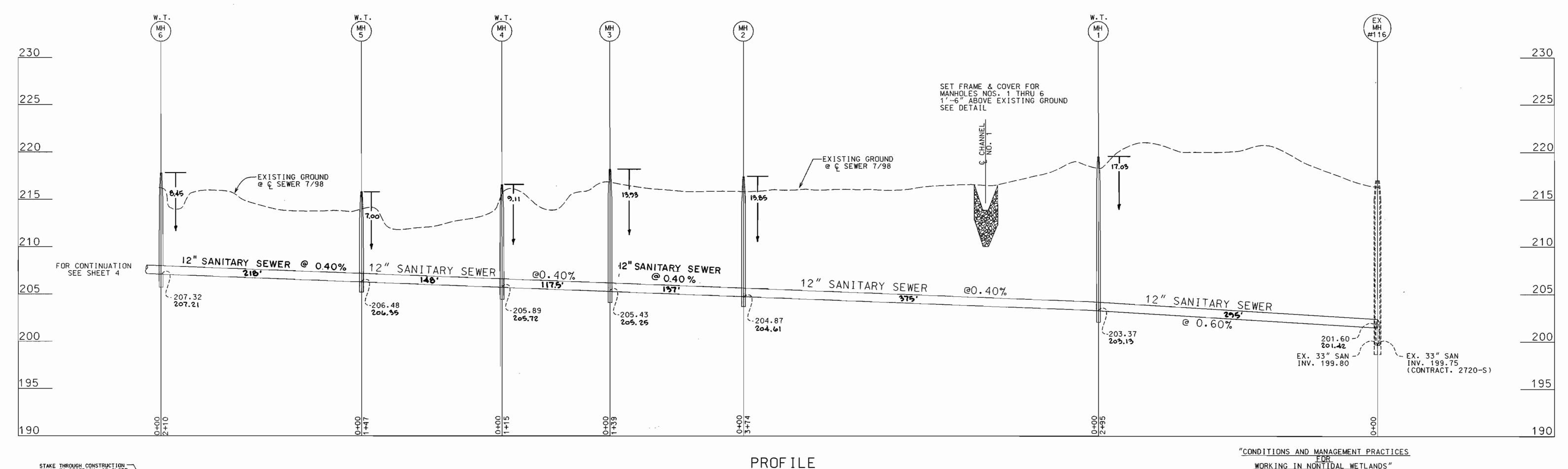
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SHEET 5 OF 5



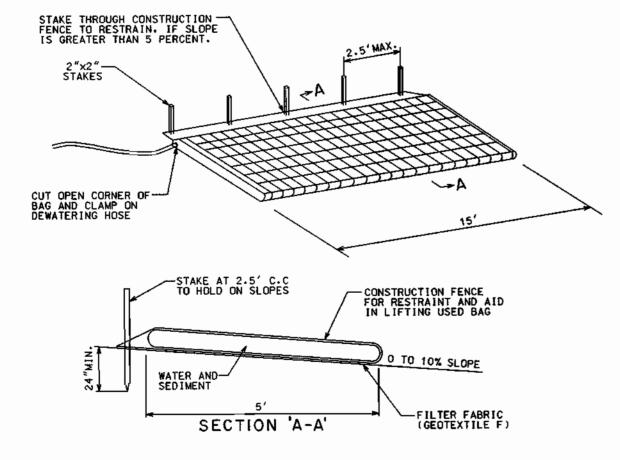




SCALE: HOR. 1"=50 VERT. 1"=5'

DATE 600' SCALE MAP NO. 47

BLOCK NO. 3,48 9



ACT. CHIEF, UTILATY DESMEN DIVISION

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75% (MIN.)

FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH FLOW RATE

FILTERING EFFICIENCY

50 LBS/IN (MIN.) TEST: MSMT 509
20 LBS/IN (MIN.) TEST: MSMT 509
0.3 GAL FT<sup>2</sup>/MINUTE (MAX.) TEST: MSNT 322

TEST: MSMT 509 TEST: MSMT 509 TEST: MSMT 322

BY NO.

REVISION

FILTER BAG TEMPORARY EROSION CONTROL MEASURE

DATE

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DEPARTMENT OF PUBLIC WORKS DES: DEH HOWARD COUNTY, MARYLAND PROFILE DRN: DAR HICKS ENGINEERING CO.INC.

ENGINEERS. SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 402
TOWSON. MARYLAND 21286-3160 SEWER MAIN CHK: DEH (410) 494-0001 Kant W Bernan 7-1-99 DATE: 6/22/99 JMT 1 PER RED-LINE

CROSSING & SUBINTERCEPTOR 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

INTERSTATE ROUTE 95 - SEWER MAIN

CAPITAL PROJECT NO. S-6208 CONTRACT NO. 20-3733

SHEET 3 OF 5

SCALE

AS

SHOWN

CHIEF, BUREAU OF UTILITIES DATE H.E.C. J.O. #97044

