

LEGEND

- F FERMENTER
- FC FINAL CLARIFIER
- FEB FLOW EQUALIZATION BASIN
- PC PRIMARY CLARIFIER
- PR PROCESS REACTOR
- PS PRIMARY SUBSTATION
- TB-3 TEST BORING
- PROPOSED STRUCTURE
- PROPOSED BITUMINOUS PAVING
- CONCRETE PAVING/SIDEWALK OR MOW STRIP
- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- EXISTING CONTOUR
- EXISTING PIPING 12" AND ABOVE
- EXISTING PIPING SMALLER THAN 12"
- PROPOSED PIPING SMALLER THAN 12"
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- 143.3 X N-592000 E 1365000
- STAKEOUT COORDINATES
- SF SILT FENCE
- SSF SUPER SILT FENCE
- AGIP INLET PROTECTION
- MH NEW STORM MANHOLE AND DESIGNATOR
- I-1 NEW STORM INLET AND DESIGNATOR
- SMH NEW SEWER MANHOLE AND DESIGNATOR

- EX. SLOPES 25% OR GREATER

- 100 YR. FLOODPLAIN LIMIT PER HOWARD CO.
- 50' WETLAND/STREAM BUFFER

- SITE ANALYSIS**
- A. AREA OF PARCEL/LOT = 38.01 ACRES
 - B. PRESENT ZONING = M-2 PER OCT. 18, 1993 ZONING PLAN
 - C. EXISTING NUMBER OF PARKING SPACES ON SITE = 107
 - D. EXISTING BUILDING COVERAGE 9.26 ACRES-24.36%
 - E. PROPOSED BUILDING COVERAGE 0.21 ACRES-0.55%
 - F. TOTAL BUILDING COVERAGE 9.47 ACRES-24.91%
 - G. DISTURBED AREA = 1.34 ACRES
 - H. PROPOSED USE = WATER RECLAMATION PLANT
 - I. FLOOR SPACE USE = BLOWER AND PUMP ROOM
 - J. EXISTING NUMBER OF EMPLOYEES = 55

ADDRESS CHART

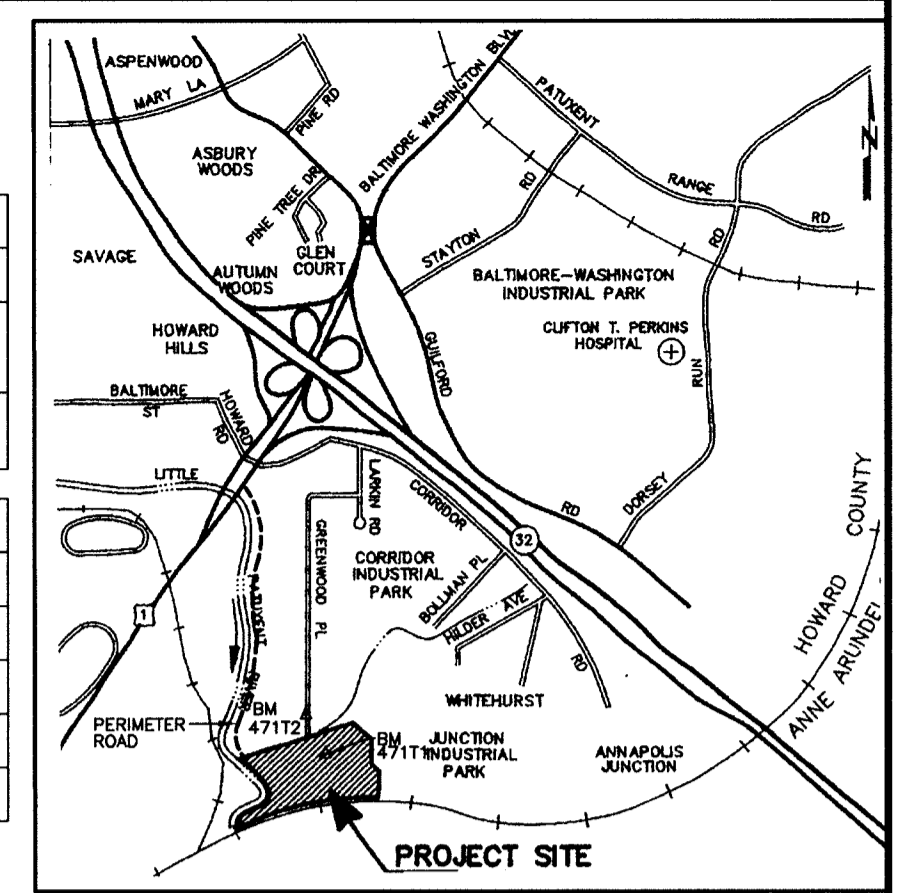
LOT/PARCEL #	STREET ADDRESS
PARCEL A	8900 GREENWOOD PLACE

PERMIT INFORMATION CHART

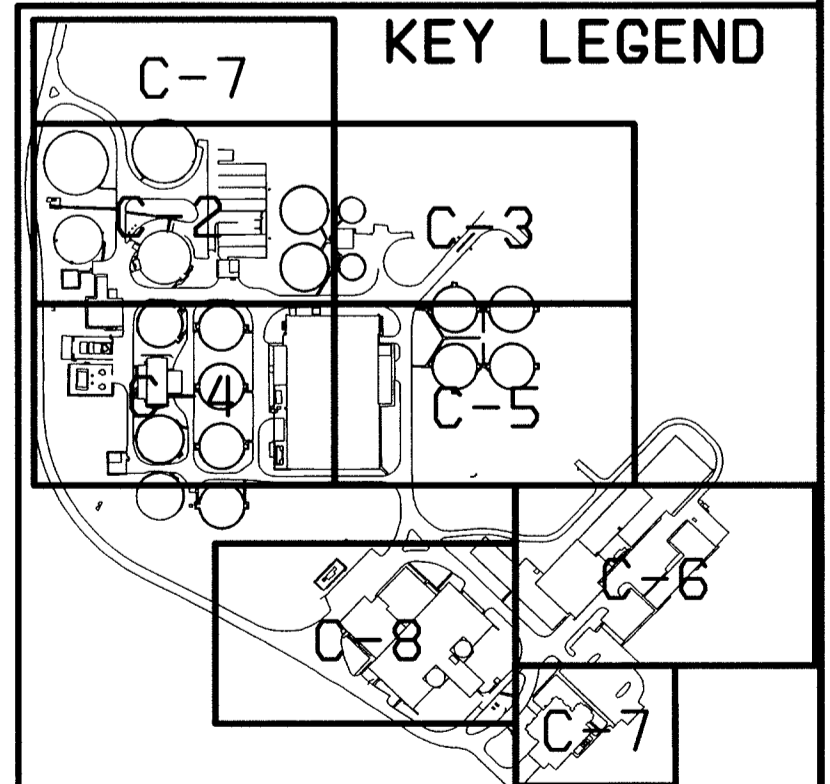
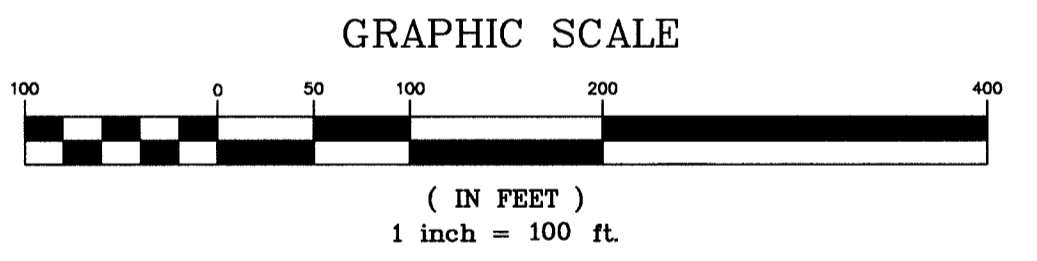
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
PLAT # OR L/F	GRIDE #	ZONING
432/516	24	M-2
618/537		
TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
47	6	6064
WATER CODE	SEWER CODE	
C04	4020000	

VEGETATION

TYPE	SIZE	CONDITION
WOODED-MAPLE/OAK	10"-18"	GOOD
SPECIMEN-PINE/SPRUCE	10"-12"	GOOD
MAPLE/BRADFORD PEAR	3"-10"	GOOD
HEDGEROW		GOOD



- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATION IF APPLICABLE.
 2. 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.
 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 4. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 5. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH MAXIMUM ONE FOOT CONTOUR INTERVALS PREPARED FOR AMT AND ASSOCIATES BY MERIDIAN SURVEYS, INC. DATED JUNE 1999.
 6. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 47111 AND 47112 WERE USED FOR THIS PROJECT.
 7. WATER IS PUBLIC (HO. CO. LITTLE PATUXENT WATER RECLAMATION PLANT).
 8. SEWER IS PUBLIC (HO. CO. LITTLE PATUXENT WATER RECLAMATION PLANT).
 9. EXISTING UTILITIES ARE BASED ON LITTLE PATUXENT WATER RECLAMATION PLANT.
 10. THE FLOODPLAIN LIMITS FOR THIS PROJECT WAS TAKEN FROM HOWARD COUNTY STUDY.
 11. THE ENTIRE LITTLE PATUXENT WASTEWATER TREATMENT PLANT SITE IS LOCATED IN THE 100 YEAR FLOODPLAIN, ELEV. 143.0. GRADING WITHIN THIS SITE IS CONSIDERED ESSENTIAL DISTURBANCE.
 12. OFFSITE DISPOSAL OF EXCESS MATERIAL WILL BE TO AN APPROVED SITE.
 13. DIMENSIONS TO NEW STRUCTURE ARE PERPENDICULAR TO PROPERTY LINE.
 14. LANDSCAPING IN ACCORDANCE WITH SEC. 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPING MANUAL IS ADDRESSED THROUGH ALTERNATIVE COMPLIANCE AND CREDIT TAKEN WITH EXISTING VEGETATION. ALL NEW ADDITIONS OR STRUCTURES ARE INTERNAL TO THIS SITE.
 15. THE PURPOSE OF THIS SITEPLAN IS TO CONSTRUCT NEW PROCESS REACTOR, BLOWER BUILDING, CLARIFIER, PAVING, PRIMARY SUBSTATION, AUXILIARY PUMP STATION AND CENTRIFUGE BUILDING, GRADING, VAULTS & CELLS.



FOREST CONSERVATION NOTE PER SECTION 16.1202(b)(1)(iii) HOWARD CO. CODE:

THE LITTLE PATUXENT WATER RECLAMATION PLANT HAS BEEN CONSTRUCTED OVER A PERIOD OF YEARS STARTING IN THE 1960'S AND CONTINUING INTO THE 1990'S. ALL OF THE CLEARING AND GRADING TO CREATE THE SITE AS IT EXISTS TODAY WAS COMPLETED WITH THE 4TH ADDITION WHICH WAS CONSTRUCTED BETWEEN 1977 AND 1982. THERE WAS A 5TH ADDITION CONSTRUCTED BEGINNING IN 1992, BUT IT DID NOT INCLUDE THE CLEARING OF ANY NEW LAND. ALL OF THE CONSTRUCTION DURING THE 5TH ADDITION WAS LIMITED TO AREA ALREADY CLEARED AND GRADED UNDER PREVIOUS CONSTRUCTION CONTRACTS. THE PROPOSED 6TH ADDITION IS ALSO LIMITED TO AREAS PREVIOUSLY CLEARED AND GRADED DURING THE ORIGINAL PLANT CONSTRUCTION AND PLANT ADDITIONS 1-4. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL SHALL BE FULFILLED BY THE FILING OF A DECLARATION OF INTENT FOR THE CLEARING OF LESS THAN 40,000 SF OF FORESTS.

BENCHMARK
HORIZONTAL AND VERTICAL BASED UPON HOWARD COUNTY GPS CONTROL MONUMENTS (THIRD CLASS SURVEY CONTROL) NAD 83/91, NAVD 88.

NAME	NORTHING	EASTING	ELEVATION
47111	530819.908	1366225.547	143.274
47112	531440.211	1365496.525	147.001

PANEL POINT COOR. NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
1001	ELECTRIC MH	531033.365	1364608.409	127.50
1003	CORNER OF PAVEMENT	531214.601	1365947.869	139.91

APPROVED: DEPARTMENT OF PLANNING AND ZONING

OWNER/DEVELOPER
HOWARD COUNTY GOVERNMENT
DEPT. OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

- SHEET INDEX**
- C-1 OVERALL SITE PLAN
 - C-2 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-3 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-4 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-5 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-6 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-7 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-8 SITE DEVELOPMENT & EROSION AND SEDIMENT CONTROL PLAN
 - C-9 EROSION AND SEDIMENT CONTROL DETAILS
 - C-10 EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
 - C-11 STORM SEWER PROFILE AND SITE DETAILS
 - C-12 STORM SEWER PROFILES
 - C-13 STRUCTURE SECTIONS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND A. MORTON THOMAS AND ASSOCIATES, INC. CONSULTING ENGINEERS 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE MD 20852 TEL: (301) 881-2546 FAX: (301) 881-0814 E-MAIL: JBYRNE@AMTENGINEERING.COM Howard County Submittal 05/01/00	BLACK & VEATCH Gaithersburg, Maryland 	DES: AR DRN: REA CHK: JB DATE: 05/01/00	CIVIL REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148 OVERALL SITE PLAN	LITTLE PATUXENT WATER RECLAMATION PLANT ADDITION NO. 6 PARCEL "A" CAPITAL PROJECT S-6205 CONTRACT NO ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 13 C-1
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SDP00-94

LEGEND

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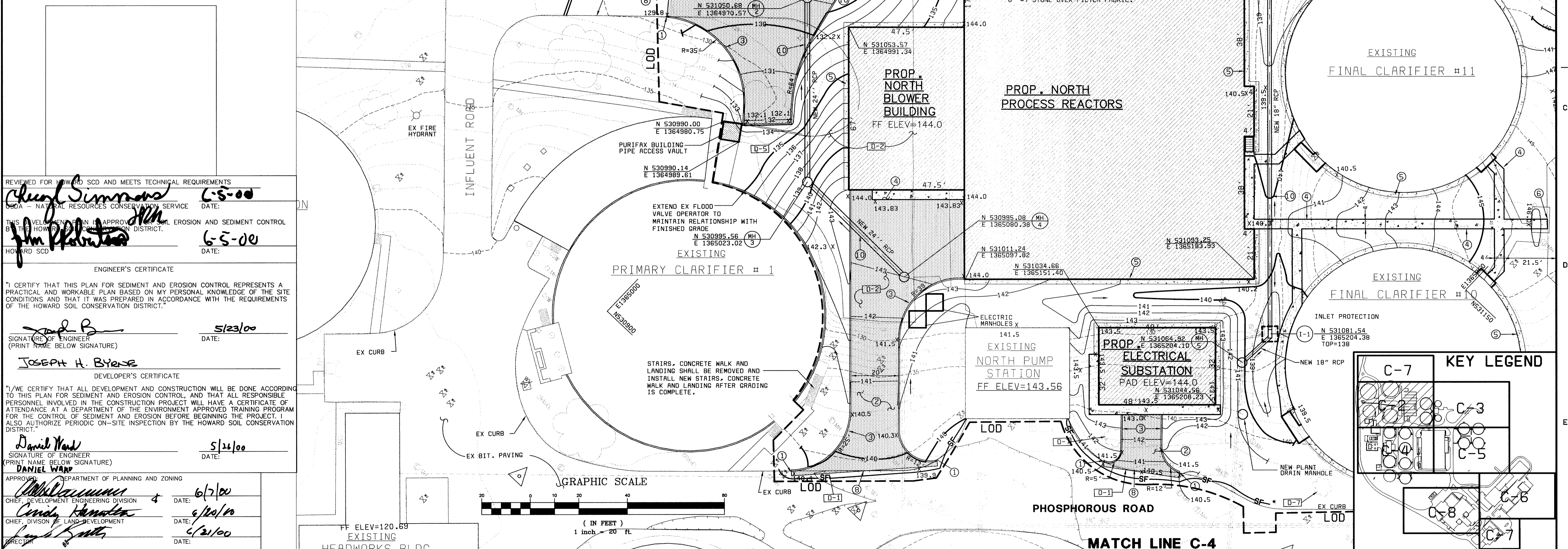
CONSTRUCTION NOTES:

- 1 CONNECT NEW CURB TO EX CURB
- 2 INSTALL NEW PAVING (PAVING SECTION P-2)
- 3 INSTALL NEW CURB
- 4 INSTALL NEW CONCRETE SIDEWALK
- 5 INSTALL 2' CONCRETE MOWING STRIP
- 6 CONNECT NEW CONCRETE WALK TO EX WALK
- 7 NOT USED
- 8 CONNECT NEW PAVING TO EX PAVING
- 9 INSTALL CURB CUT W/RIP-RAP
- 10 INSTALL NEW STORM DRAIN SYSTEM

DEMOLITION NOTES:

- D-1 REMOVE CURB
- D-2 REMOVE PAVING
- D-3 REMOVE STORM DRAIN PIPE AND APPURTENANCES
- D-4 REMOVE CONCRETE SLUDGE STORAGE
- D-5 REMOVE RETAINING WALL
- D-6 REMOVE CONCRETE WALK
- D-7 REMOVE TREE

NOTE:
FOR STABILIZED CONSTRUCTION ENTRANCE FOR ENTIRE SITE PROJECT SEE C-7



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 C-5-00
 DATE: 6-5-00

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 J.M. Robertson
 DATE: 6-5-00

HOWARD SCD

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.
 J. Joseph H. Byrne
 DATE: 5/23/00

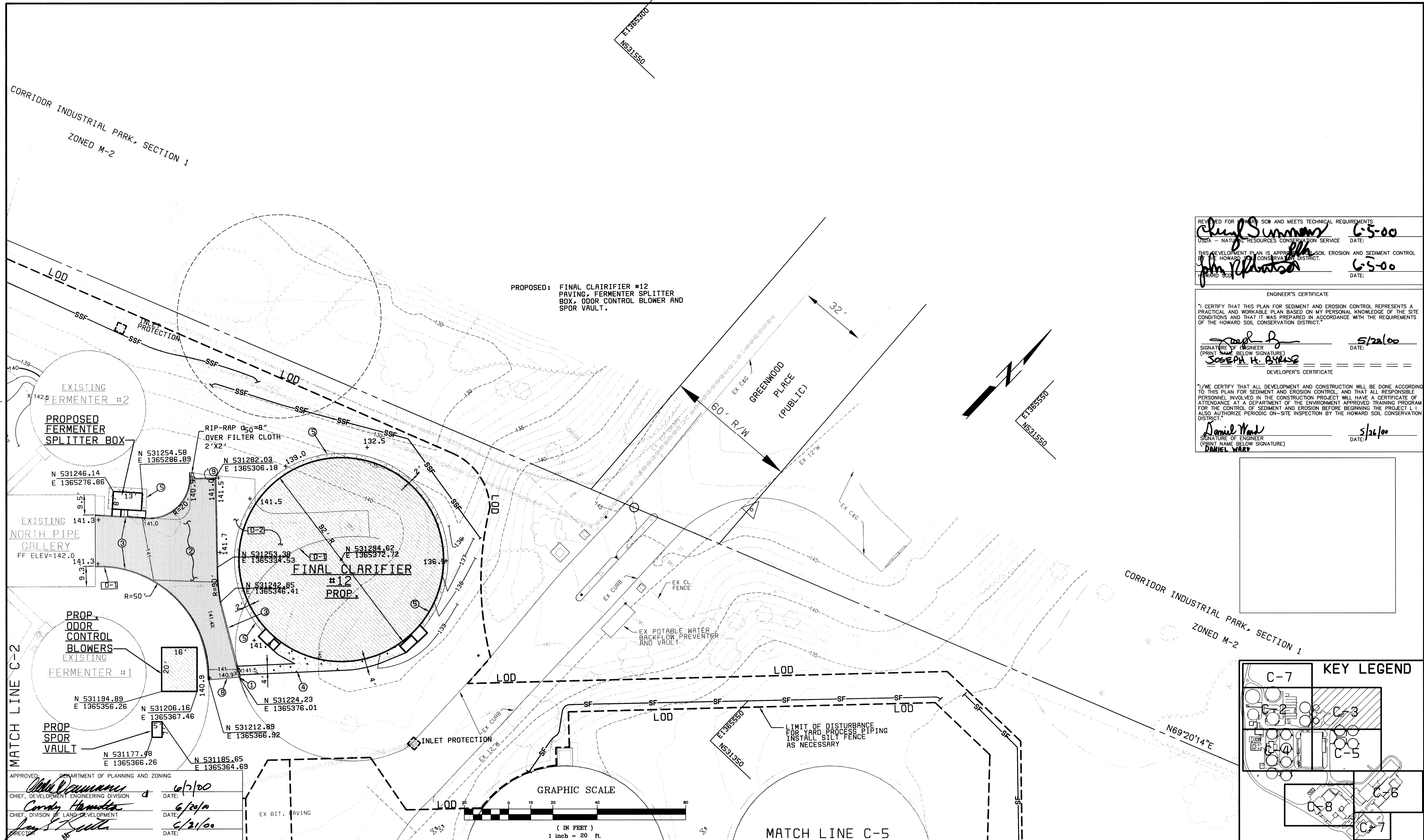
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 JOSEPH H. BYRNE
 DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE 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.
 Daniel Ward
 DATE: 5/24/00

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 DANIEL WARD

APPROVED DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 DATE: 6/7/00
 Chief, Division of Land Development
 DATE: 6/20/00
 Director
 DATE: 6/21/00

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities DATE	A. MORTON THOMAS AND ASSOCIATES, INC. CONSULTING ENGINEERS 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE, MD 20852 TEL: (301) 881-2545 FAX: (301) 881-0814 E-MAIL: JBYRNE@AMTEENGINEERING.COM HOWARD COUNTY SUBMISSION 05/01/00	BLACK & VEATCH LP Gaithersburg, Maryland REG. PROF. ENGR. DATE	STATE OF MARYLAND PROFESSIONAL ENGINEER 24374 5/24/00	DES: AR	REVISIONS AND RECORD OF ISSUE	CIVIL REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148 SITE DEVELOPMENT, EROSION AND SEDIMENT CONTROL PLAN	LITTLE PATUXENT WATER RECLAMATION PLANT ADDITION NO. 6 PARCEL "A" CAPITAL PROJECT S-6205 CONTRACT NO ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 13 C-2
				DRN: REA	NO. BY CK APP			

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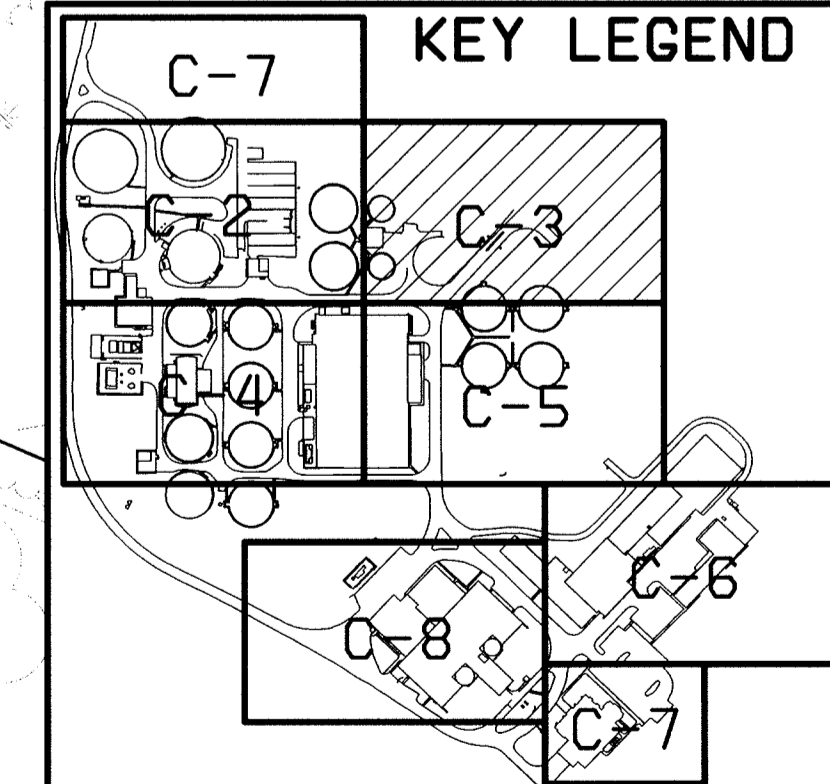


PROPOSED: FINAL CLARIFIER #12
PAVING, FERMENTER SPLITTER
BOX, ODOR CONTROL BLOWER AND
SPOR VAULT.

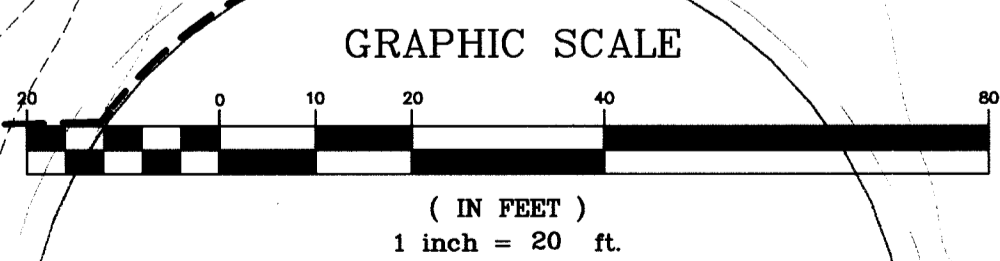
REVIEWED FOR SC-1 AND MEETS TECHNICAL REQUIREMENTS
 Chief Engineer *Joseph H. Byrnes* DATE: 6-5-00
 USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE:
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL
 BY THE HOWARD SOIL CONSERVATION DISTRICT.
 J. H. Byrnes DATE: 6-5-00
 FORWARD SC-1 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.
Joseph H. Byrnes DATE: 5/26/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 JOSEPH H. BYRNES
 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.
Daniel Ward DATE: 5/26/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
 DANIEL WARD



APPROVED: DEPARTMENT OF PLANNING AND ZONING
William D. Williams DATE: 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cordy Hamilton DATE: 6/20/00
 CHIEF, DIVISION OF LAND DEVELOPMENT
James S. Sella DATE: 6/21/00
 DIRECTOR



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert B. Beyer 5-26-00
 CHIEF, BUREAU OF UTILITIES DATE

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE, MD 20852
 TEL (301) 881-2544 FAX (301) 881-0814
 E-MAIL JBYRNE@AMTENGINEERING.COM
 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
 Gaithersburg, Maryland
Joseph H. Byrnes 5/26/00
 REG. PROF. ENGR. DATE



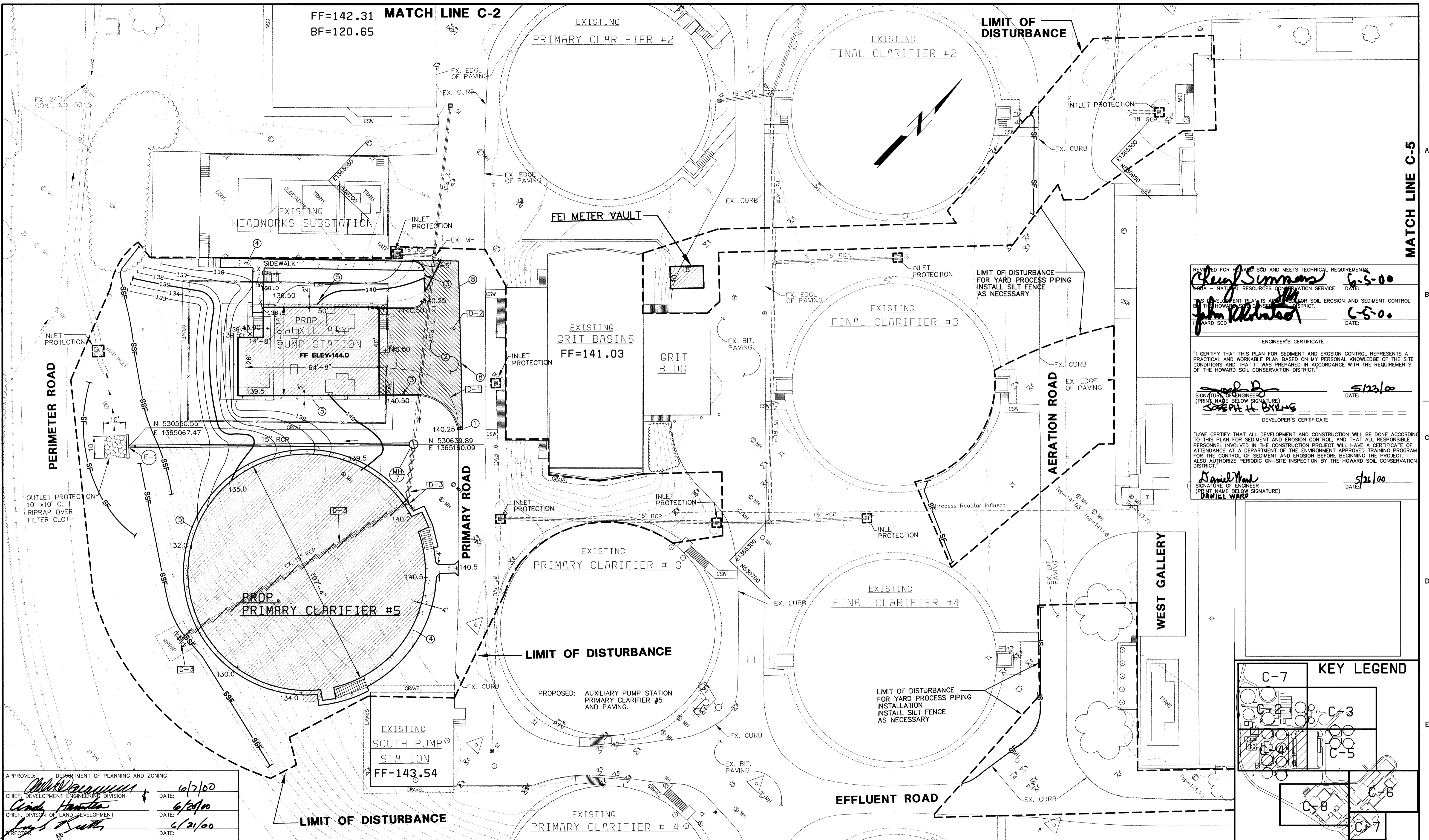
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CHK: JB									
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CIVIL
 REVISION TO SDP-78-55, 89-62,
 92-33 AND F92-72, PLAT 10148
 SITE DEVELOPMENT, EROSION
 AND SEDIMENT CONTROL PLAN

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

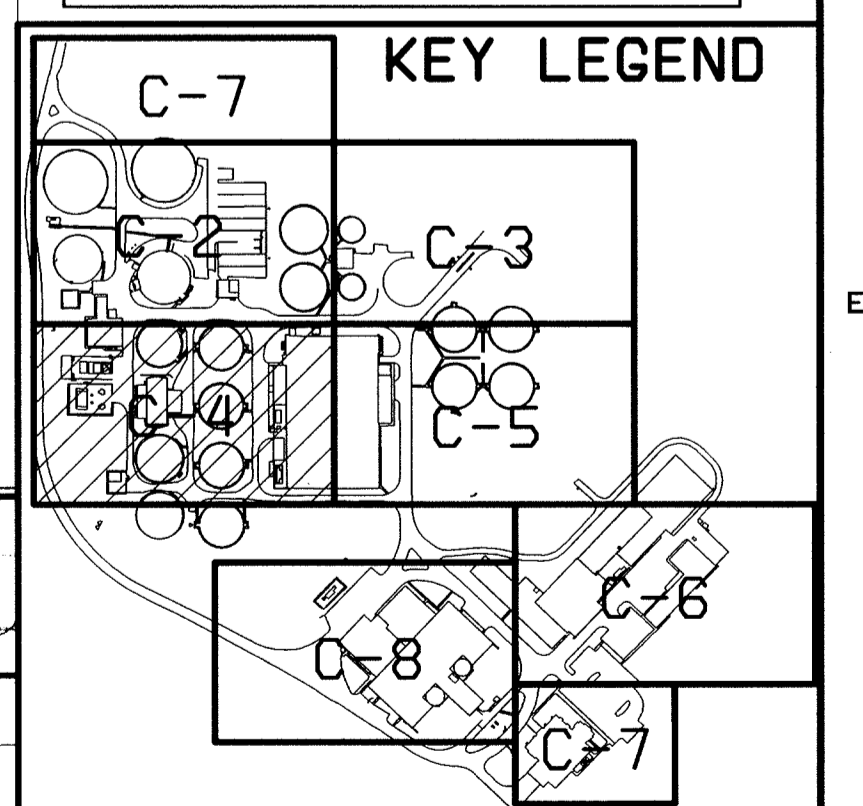
SCALE AS SHOWN
 SHEET 3 OF 13
 C-3

SDP00-94



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Cheryl Simmons 6-5-00
 HOWARD COUNTY NATURAL RESOURCES CONSERVATION SERVICE DATE:
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL
 BY THE HOWARD COUNTY CONSERVATION DISTRICT.
John Albritton 6-5-00
 HOWARD SCD 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.
Joseph H. Byrnes 5/23/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE:
 JOSEPH H. BYRNES
 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.
Daniel Ward 5/21/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE:
 DANIEL WARD

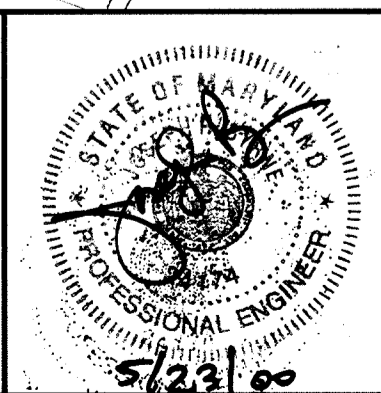


APPROVED DEPARTMENT OF PLANNING AND ZONING
Mark D. ... 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE:
Wanda Hamilton 6/28/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE:
Ray S. ... 6/21/00
 DIRECTOR DATE:

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert ... 5-26-00
 CHIEF, BUREAU OF UTILITIES DATE

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE, MD 20852
 TEL (301) 881-2545 FAX (301) 881-0814
 E-MAIL JBYRNE@AMTEENGINEERING.COM
 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
 Gaithersburg, Maryland
Shelton 5/23/00
 REG. PROF. ENGR. DATE



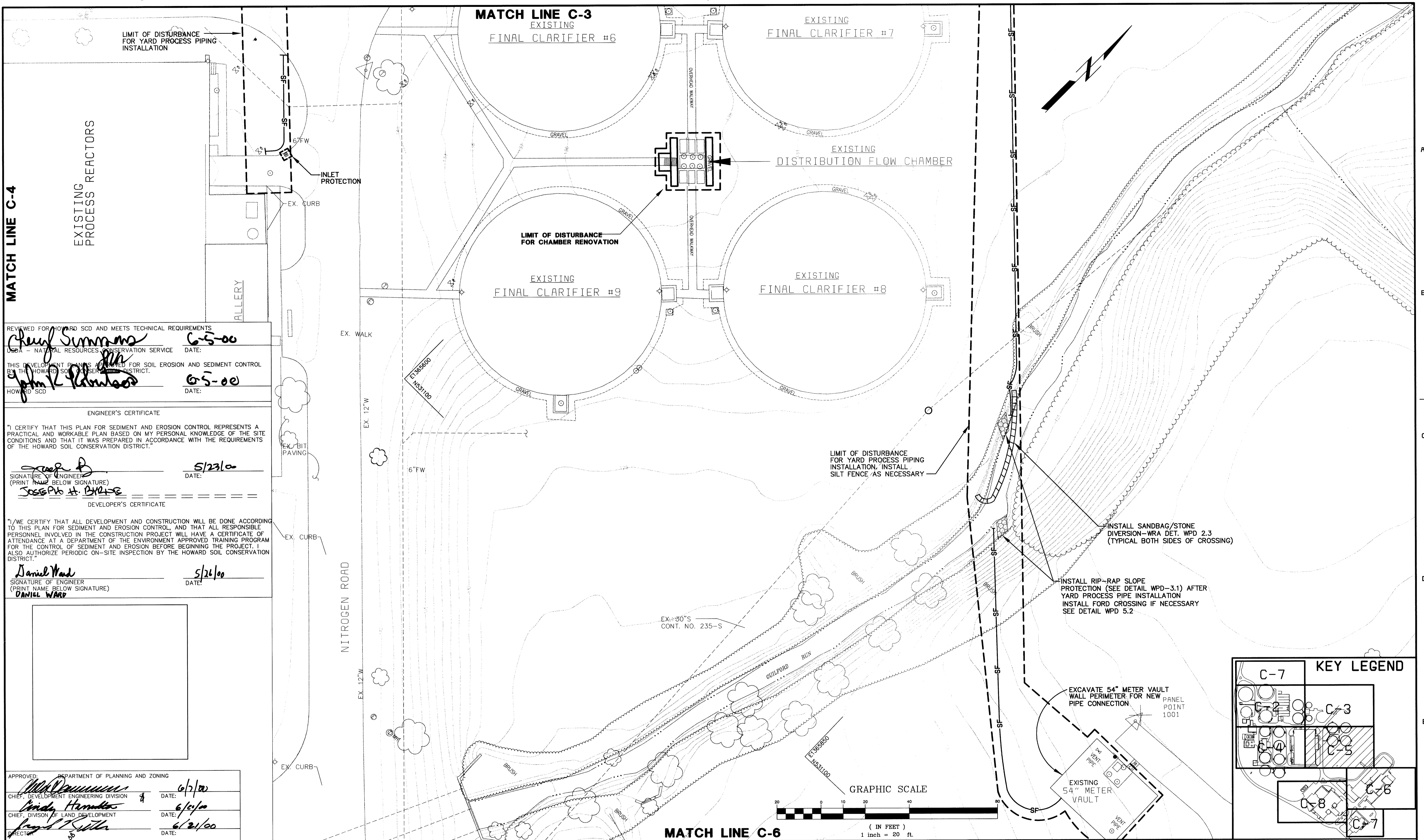
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CHK: JB					
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CIVIL
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 92-33 AND F92-72, PLAT 10148
 SITE DEVELOPMENT, EROSION
 AND SEDIMENT CONTROL PLAN

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN
 SHEET
 4 OF 13
 C-4

SDP00-94



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Cheryl Simmons 6-5-00
 USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE:
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL
 BY THE HOWARD SOIL CONSERVATION DISTRICT.
John K. Howland 6-5-00
 HOWARD SCD DATE:

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A
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 OF THE HOWARD SOIL CONSERVATION DISTRICT."
Joseph H. Blaise 5/23/00
 SIGNATURE OF ENGINEER DATE:
 (PRINT NAME BELOW SIGNATURE)
 JOSEPH H. BLAISE
 DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING
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 DISTRICT."
Daniel Ward 5/24/00
 SIGNATURE OF ENGINEER DATE:
 (PRINT NAME BELOW SIGNATURE)
 DANIEL WARD

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cheryl Simmons 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE:
Christy Harrold 6/15/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE:
Joseph J. Siller 6/21/00
 DIRECTOR DATE:

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE, MD 20852
 TEL. (301) 881-2545 FAX (301) 881-0814
 E-MAIL JBYRNE@AMTENGINEERING.COM
 HOWARD COUNTY SUBMISSION 05/01/00

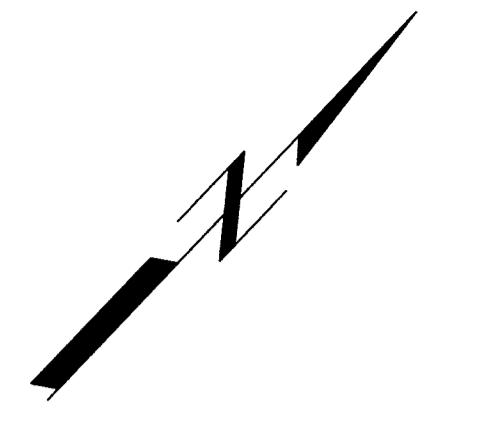
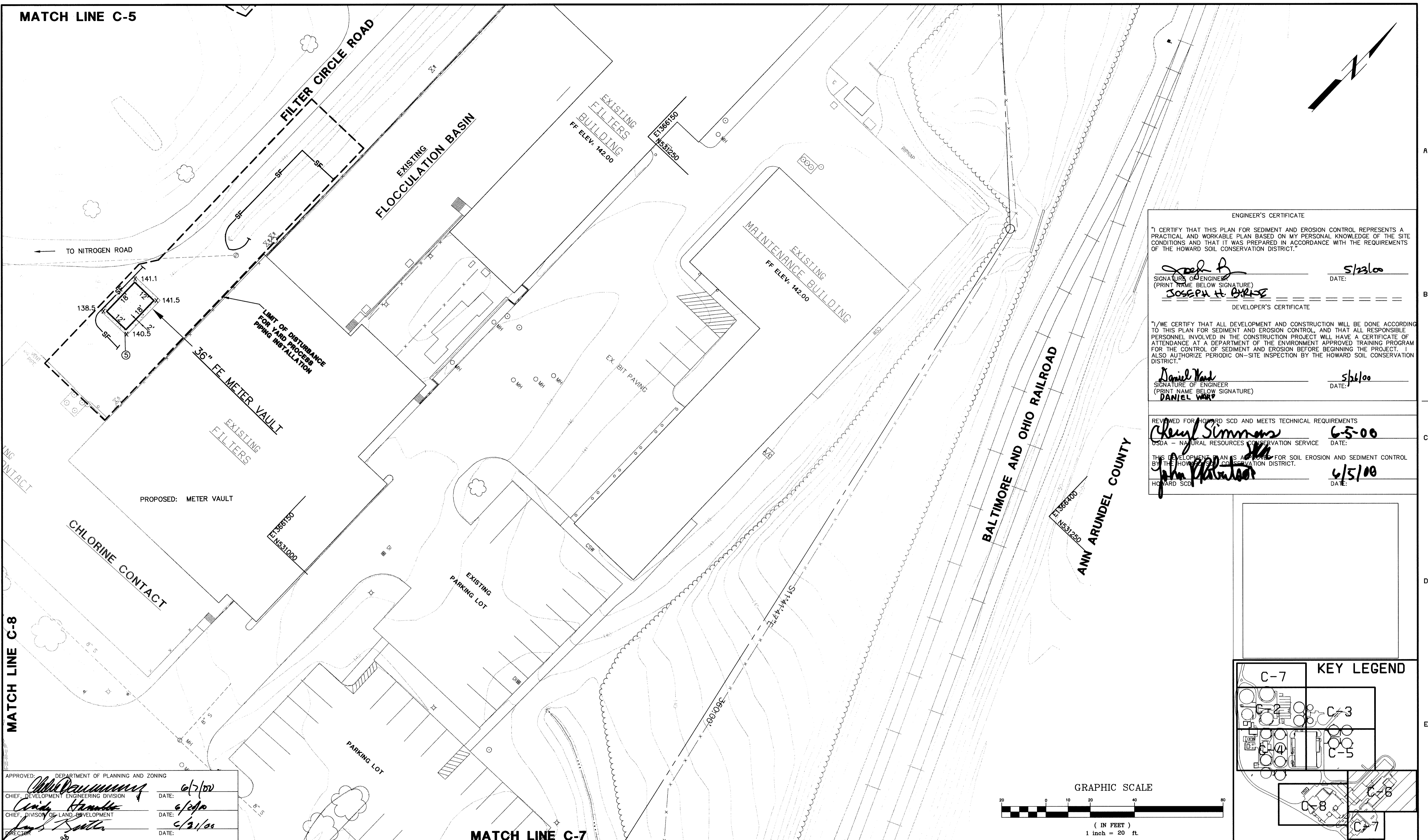
BLACK & VEATCH LP
 Gaithersburg, Maryland
Joseph Blaise 5/23/00
 REG. PROF. ENR. DATE

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 5/23/00

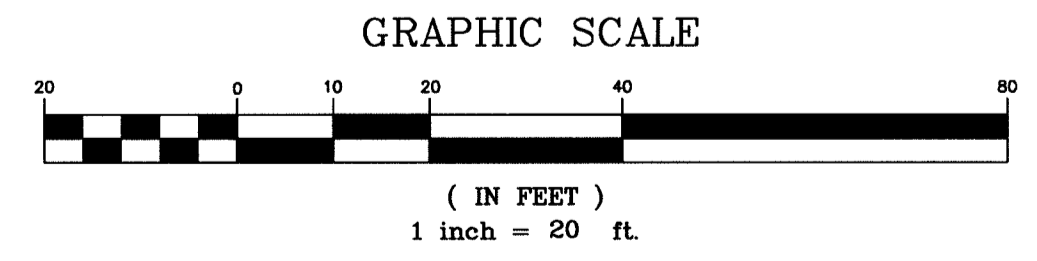
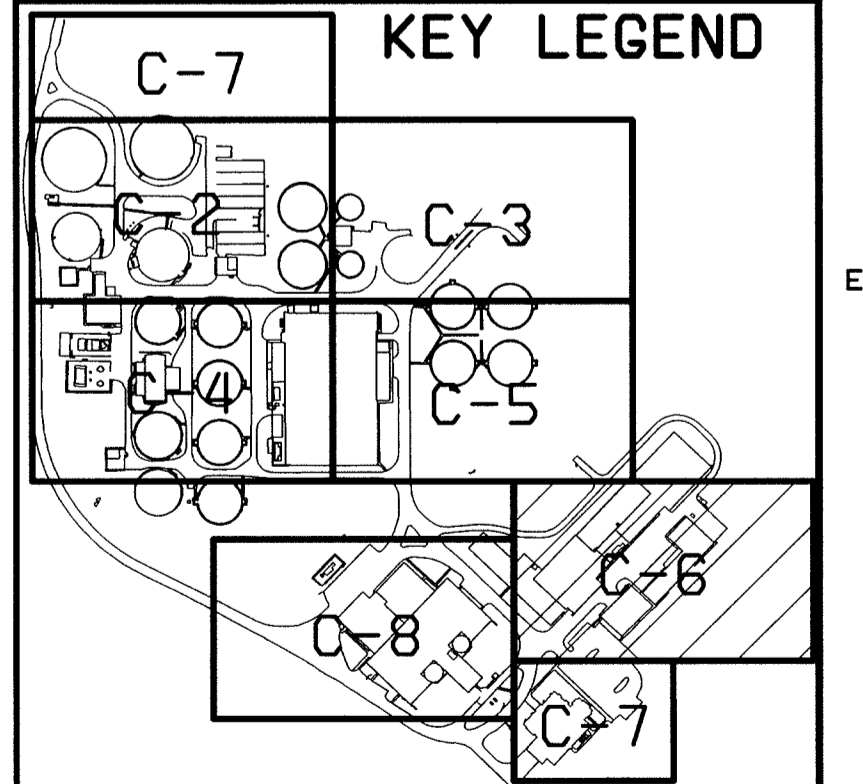
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CIVIL REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148 SITE DEVELOPMENT, EROSION AND SEDIMENT CONTROL PLAN	LITTLE PATUXENT WATER RECLAMATION PLANT ADDITION NO. 6 PARCEL "A" CAPITAL PROJECT S-6205 CONTRACT NO. ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 5 OF 13 C-5
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SDP00-94



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 OF ENGINEER: *Joseph H. Byrnie* DATE: 5/23/00
 (PRINT NAME BELOW SIGNATURE) JOSEPH H. BYRNE
 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 ENGINEER: *Daniel Ward* DATE: 5/26/00
 (PRINT NAME BELOW SIGNATURE) DANIEL WARD
 REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Key Simmons 6-5-00
 USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE:
 THIS DEVELOPMENT PLAN IS A PLAN FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John Robertson 4/5/00
 HOWARD SCD DATE:

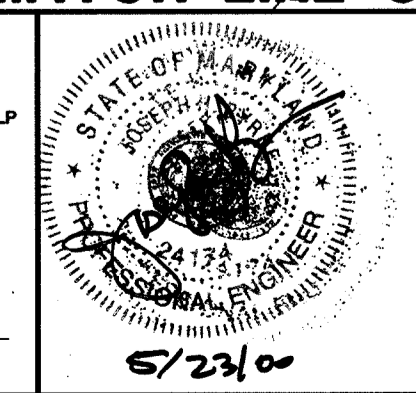


APPROVED DEPARTMENT OF PLANNING AND ZONING
Cheryl Simmons DATE: 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cathy Hamaker DATE: 6/2/00
 CHIEF, DIVISION OF LAND DEVELOPMENT
James Balla DATE: 6/21/00
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Robert Beatty 5-26-00
 CHIEF, BUREAU OF UTILITIES DATE

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 12750 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE MD 20852
 TEL (301) 881-2545 FAX (301) 881-0814
 E-MAIL JBYRNE@AMTENGINEERING.COM
 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
 Gaithersburg, Maryland
Joseph H. Byrnie 5/23/00
 REG. PROF. ENGR. DATE



DES: AR									
DRN: REA									
CHK: JB									
DATE: 05/01/00	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP			

CIVIL
 REVISION TO SDP-78-55, 89-62,
 92-33 AND F92-72, PLAT 10148
 SITE DEVELOPMENT, EROSION
 AND SEDIMENT CONTROL PLAN

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 13
 C-6

SDP00-94

CONSTRUCTION NOTES:

- 1 REMOVE CONCRETE WALK
- 2 REMOVE CONCRETE CURB - SAWCUT 1" OF EXISTING PAVEMENT PRIOR TO REMOVING CURB
- 3 INSTALL CONCRETE CURB
- 4 EXISTING GRATING TO REMAIN
- 5 REMOVE AND REUSE ALUMINUM STAIRS
- 6 REMOVE BITUMINOUS PAVING FOR SILO INSTALLATION
- 7 INSTALL NEW BITUMINOUS PAVING
- 8 INSTALL 6" WIDE CONCRETE PAD, 2" ABOVE EXISTING GRADE
- 9 RE-INSTALL ALUMINUM STAIRCASE
- 10 INSTALL NEW CONCRETE PAD AROUND SILOS, SEE STRUCTURAL DRAWINGS
- 11 REMOVE A 2' WIDE STRIP OF BITUMINOUS PAVING - SAWCUT PRIOR TO REMOVAL. MEET EXISTING PAVEMENT IN LINE AND GRADE
- 12 INSTALL CONCRETE TRUCK WASH AREA
- 13 INSTALL TRENCH DRAIN W/SAND TRAP AND 8" SANITARY SEWER
- 14 INSTALL 8" SANITARY SEWER AND CONNECT TO EXISTING SANITARY MANHOLE
- 15 RELOCATE LIME SILO PER DRAWINGS PREPARED BY RDP TECHNOLOGIES INC., AND PATCH AREA FLUSH WITH EX GRADE
- 16 INSTALL LIME SILO
- 17 INSTALL 1 1/2" WATER SUPPLY LINE, MIN 4' COVER
- 18 INSTALL 1 1/2" YARD HYDRANT, POST AND NON-FREEZE TYPE
- 19 SEE MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION
- 20 INSTALL BOLLARDS
- 21 CONNECT NEW PAVING TO EX. PAVING
- 22 GRASS AREA TO REMAIN
- 23 INSTALL 8" SEWER
- 24 INSTALL NEW CLEANOUT
- 25 INSTALL 1 1/2" CURB STOP AND BOX
- 26 RELOCATED LIME SILO (SEE NOTE 15)
- 27 CONTRACTOR TO TEST PIT PRIOR TO CONSTRUCTION
- 28 CONTRACTOR TO TEST PIT 15" D RELOCATE IF NECESSARY AT NO COST TO OWNER

"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: *Joseph A. Byrne* DATE: 5/23/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
JOSEPH A. BYRNE
 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: *Daniel Ward* DATE: 5/24/00
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE)
DANIEL WARD

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 Signature: *Cheryl Simmons* DATE: 6-5-00
 USDA - NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John Allentree* DATE: 6-5-00
 HOWARD SCD

APPROVED DEPARTMENT OF PLANNING AND ZONING
 Signature: *John Deane* DATE: 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 Signature: *Cristy Harrold* DATE: 6/29/00
 CHIEF, DIVISION OF LAND DEVELOPMENT
 Signature: *John Deane* DATE: 6/21/00
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Signature: *Ruth Beatty* DATE: 5-26-00
 CHIEF, BUREAU OF UTILITIES DATE

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 12750 TWENBROOK PARKWAY, SUITE 200, ROCKVILLE MD 20852
 TEL (301) 881-2545 FAX (301) 881-0814
 E-MAIL: JBYRNE@AMTENGINEERING.COM
 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
 Gaithersburg, Maryland
 Signature: *Joseph A. Byrne* DATE: 5/23/00
 REG. PROF. ENGR.

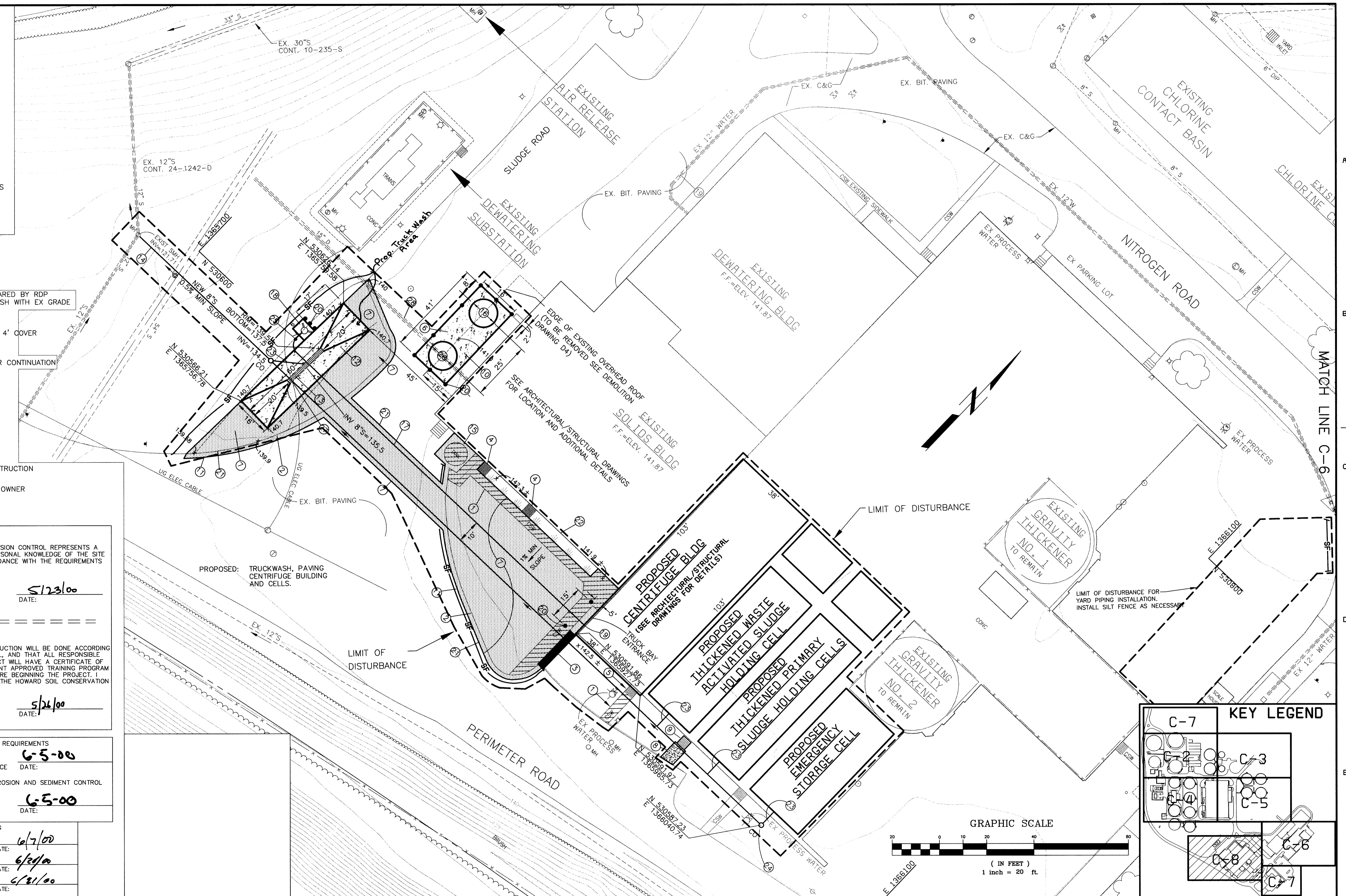


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DRN: REA					
CHK: JB					
DATE: 05/01/00	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK APP

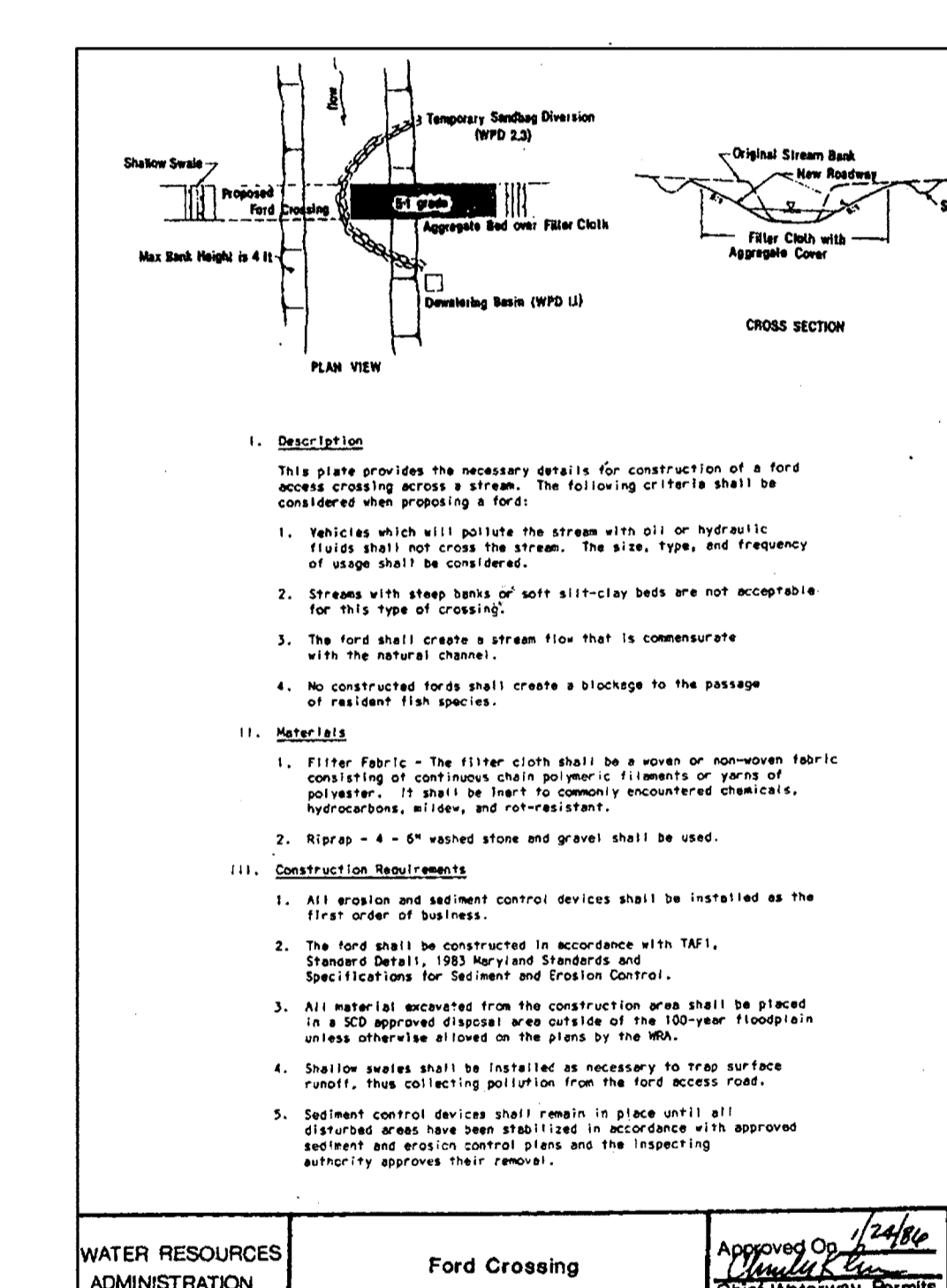
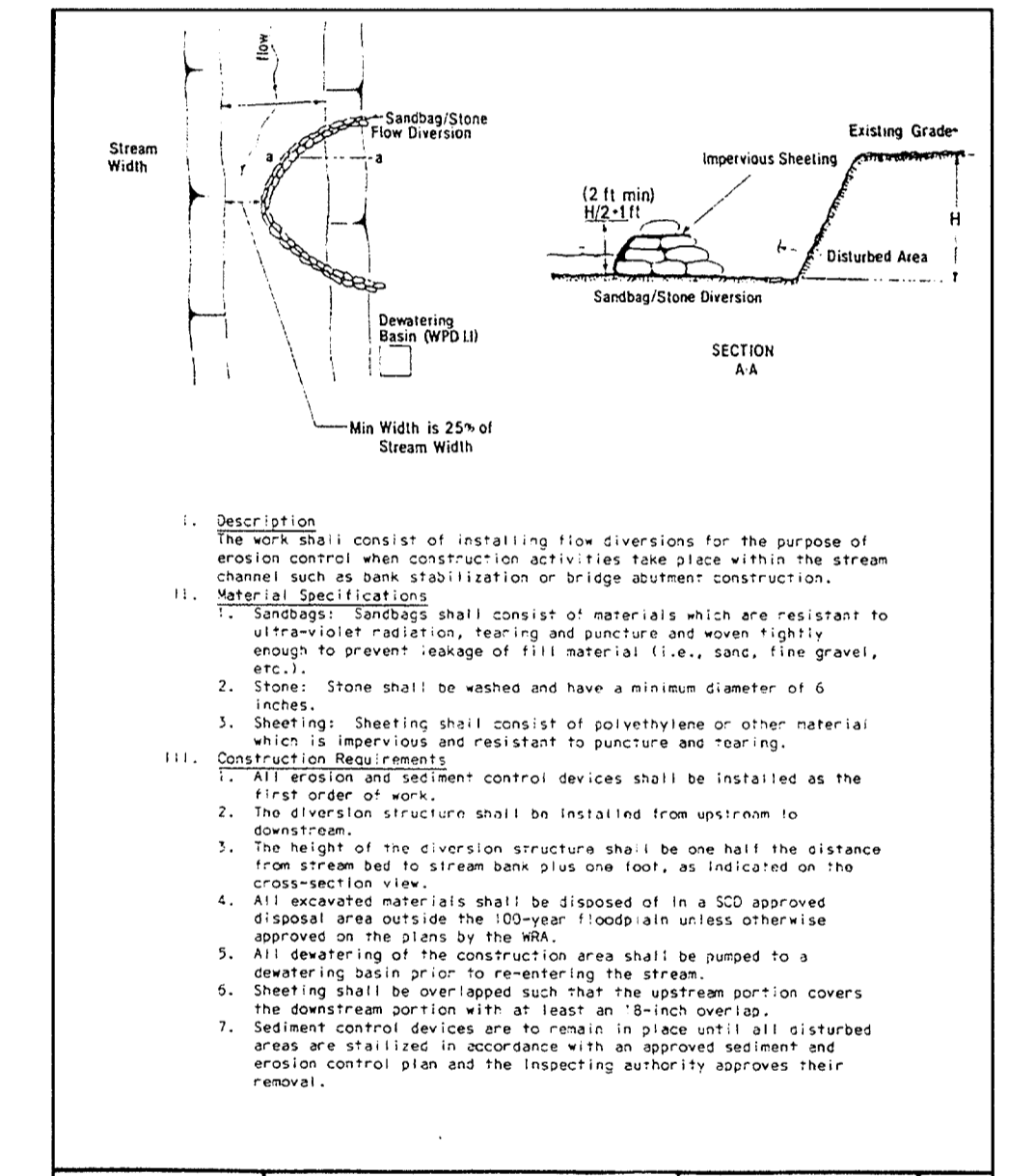
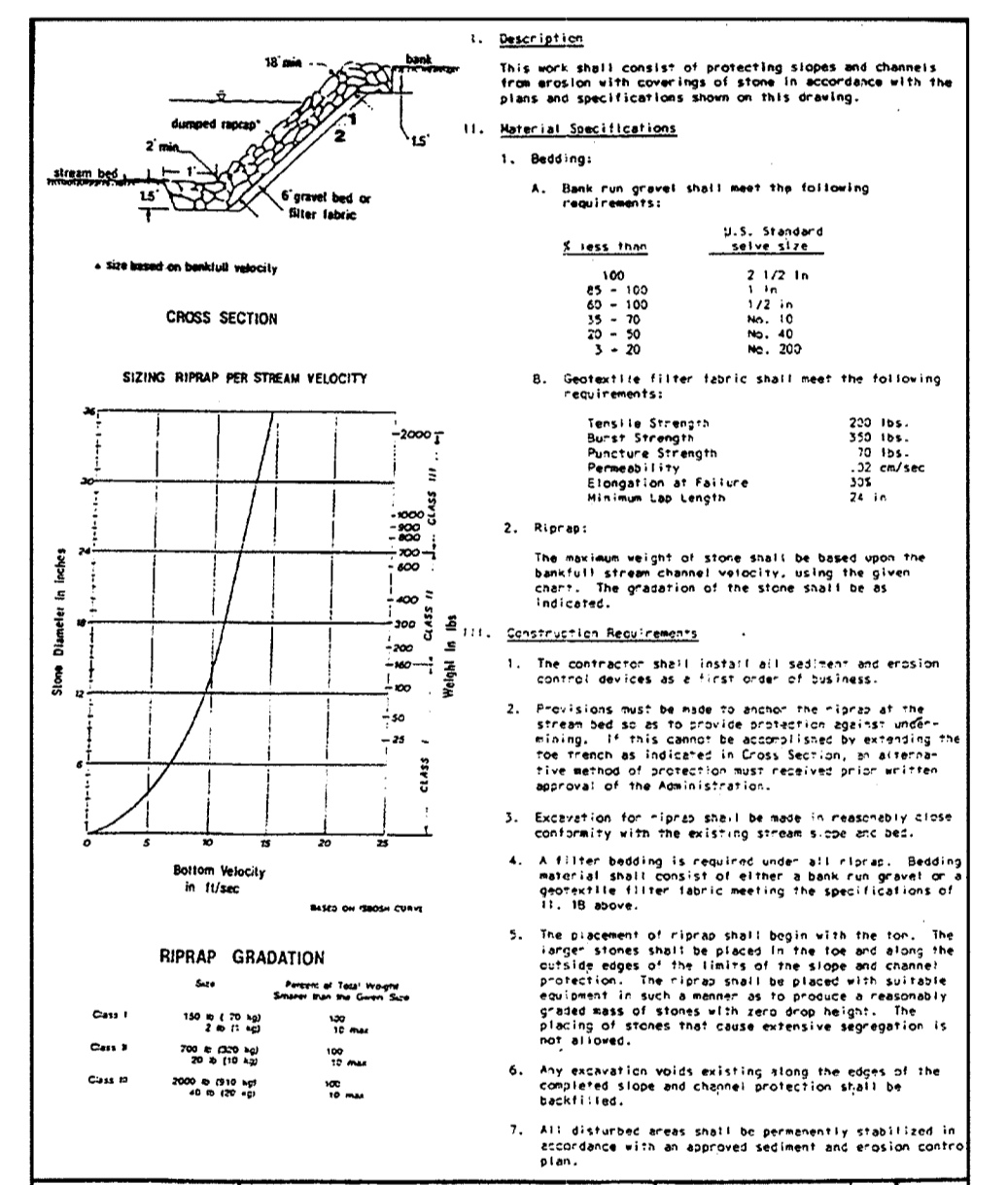
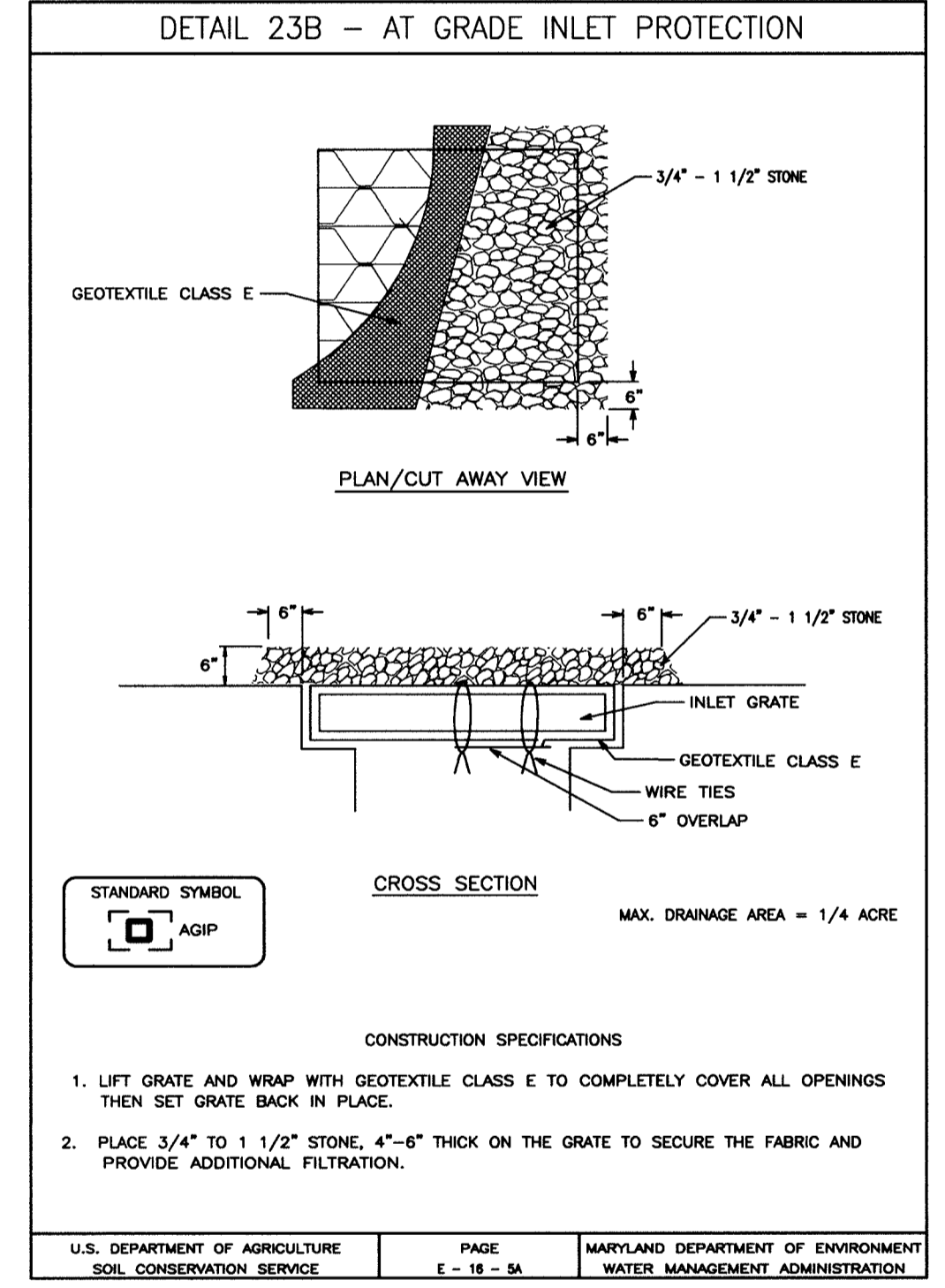
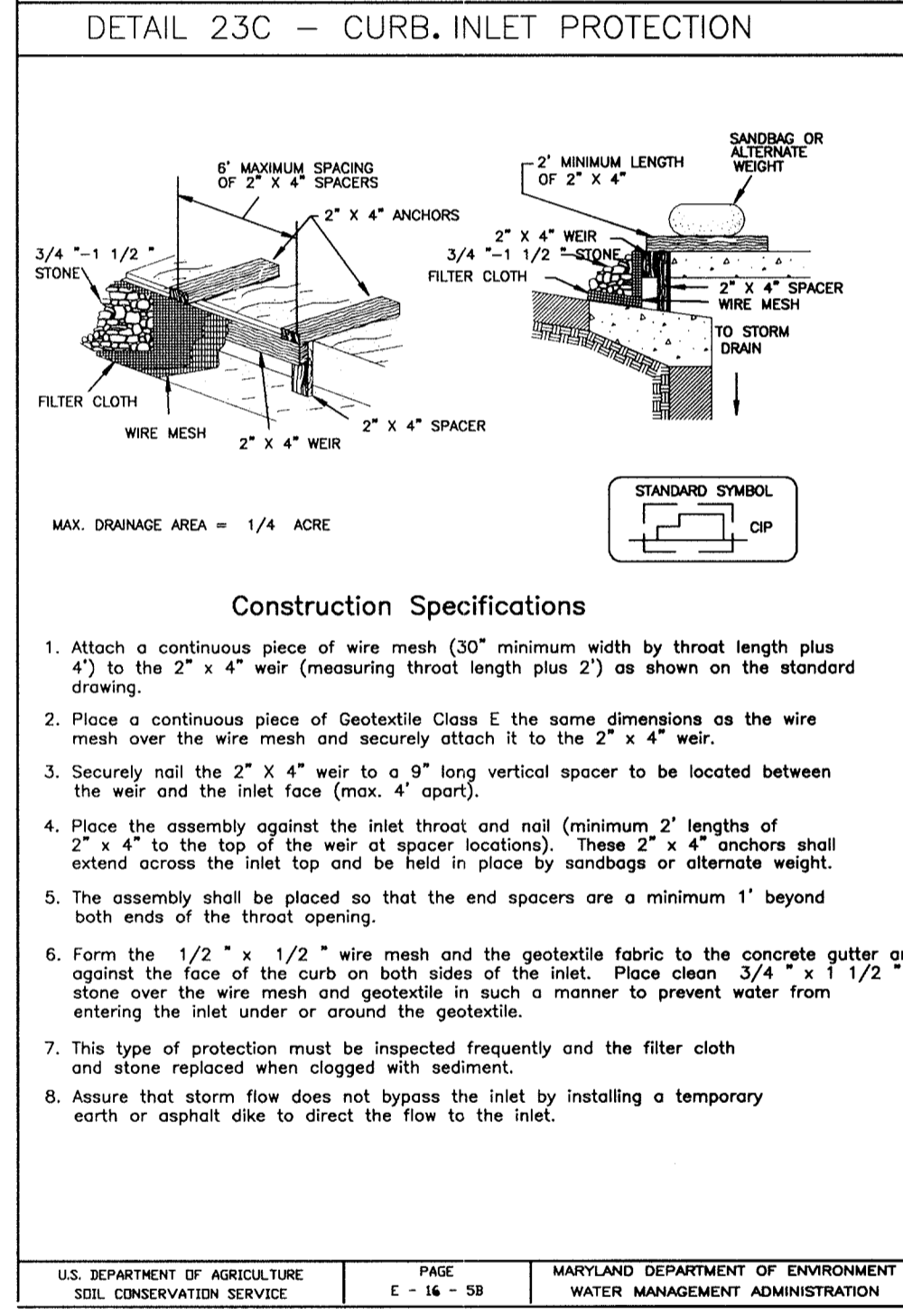
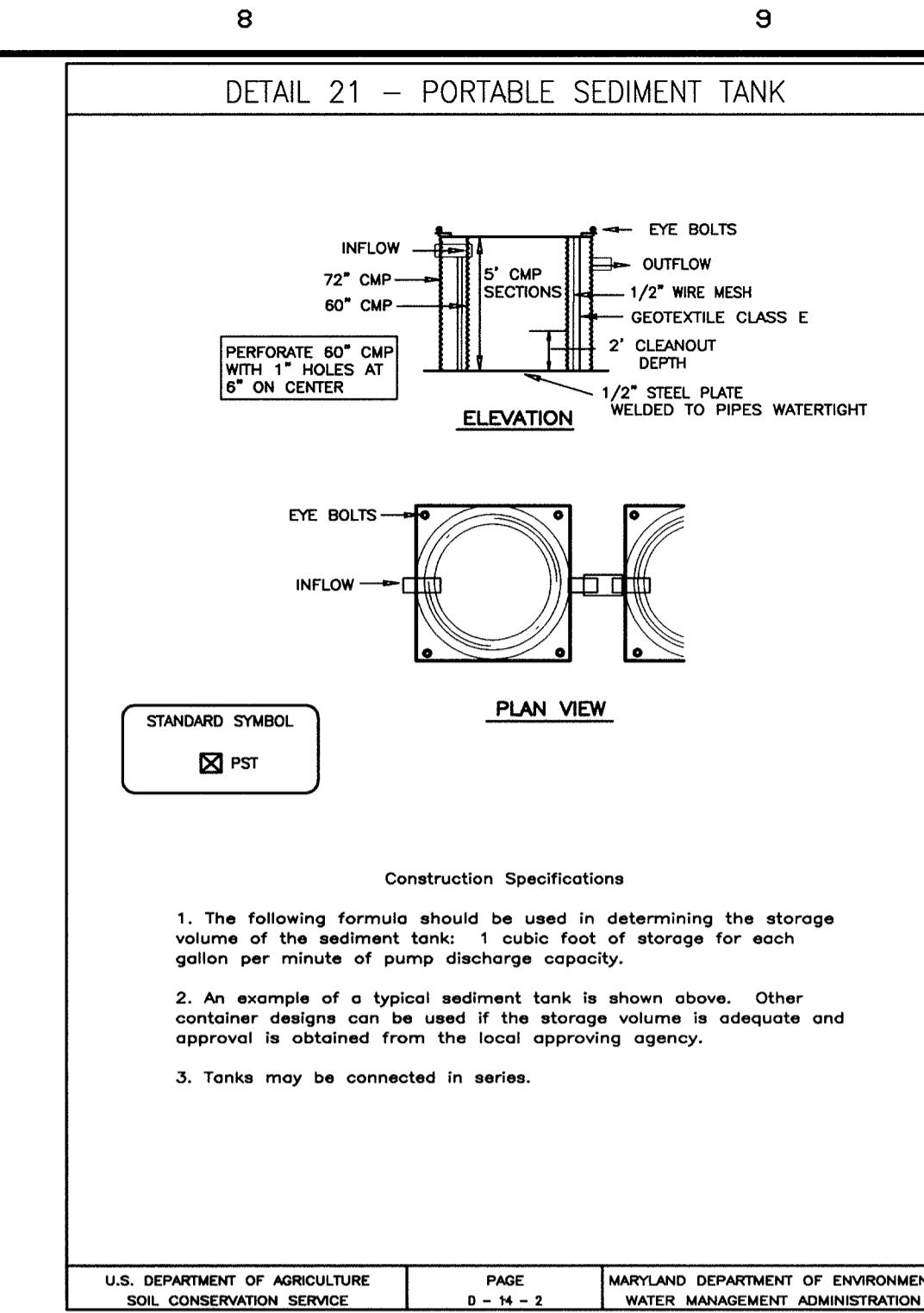
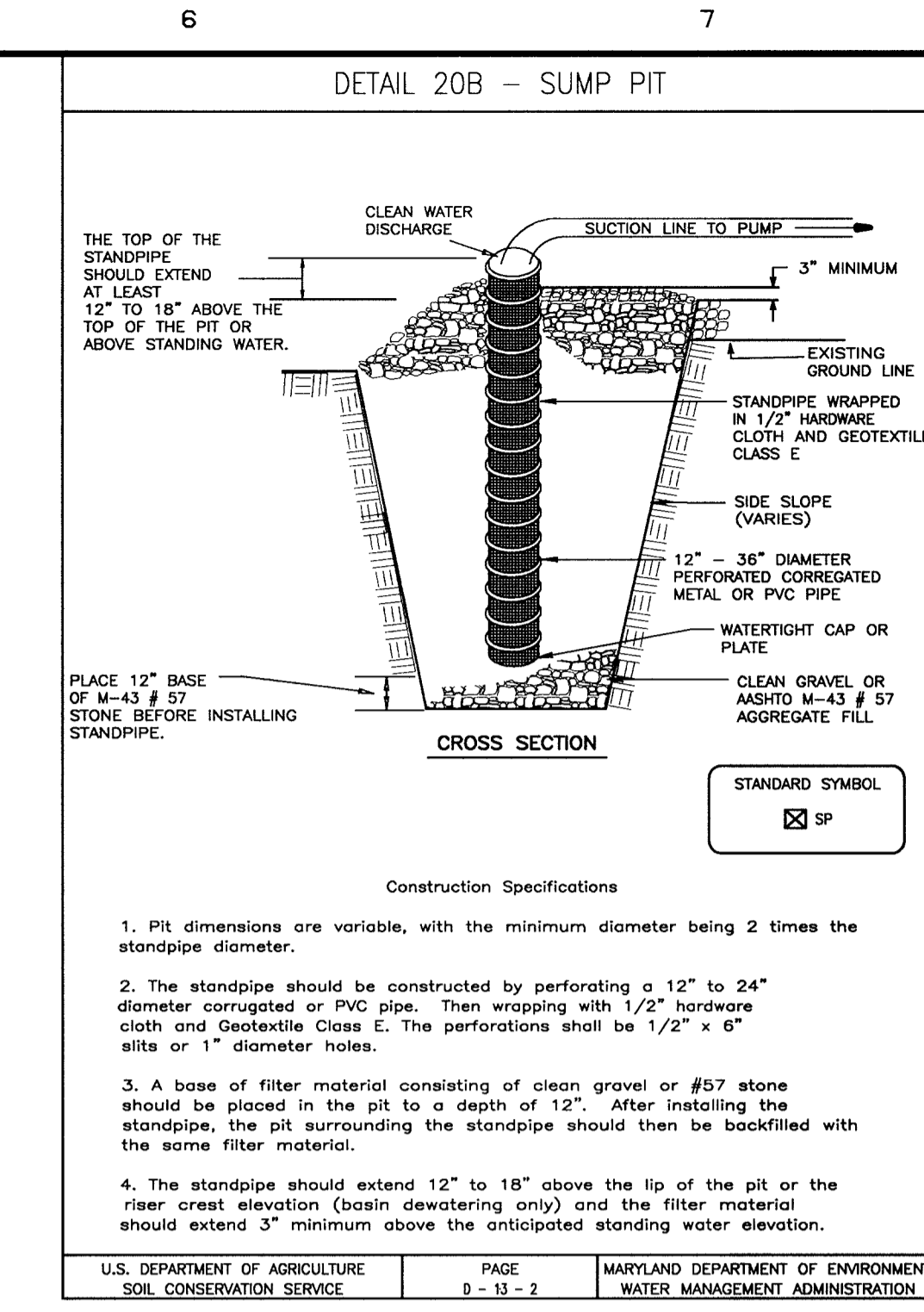
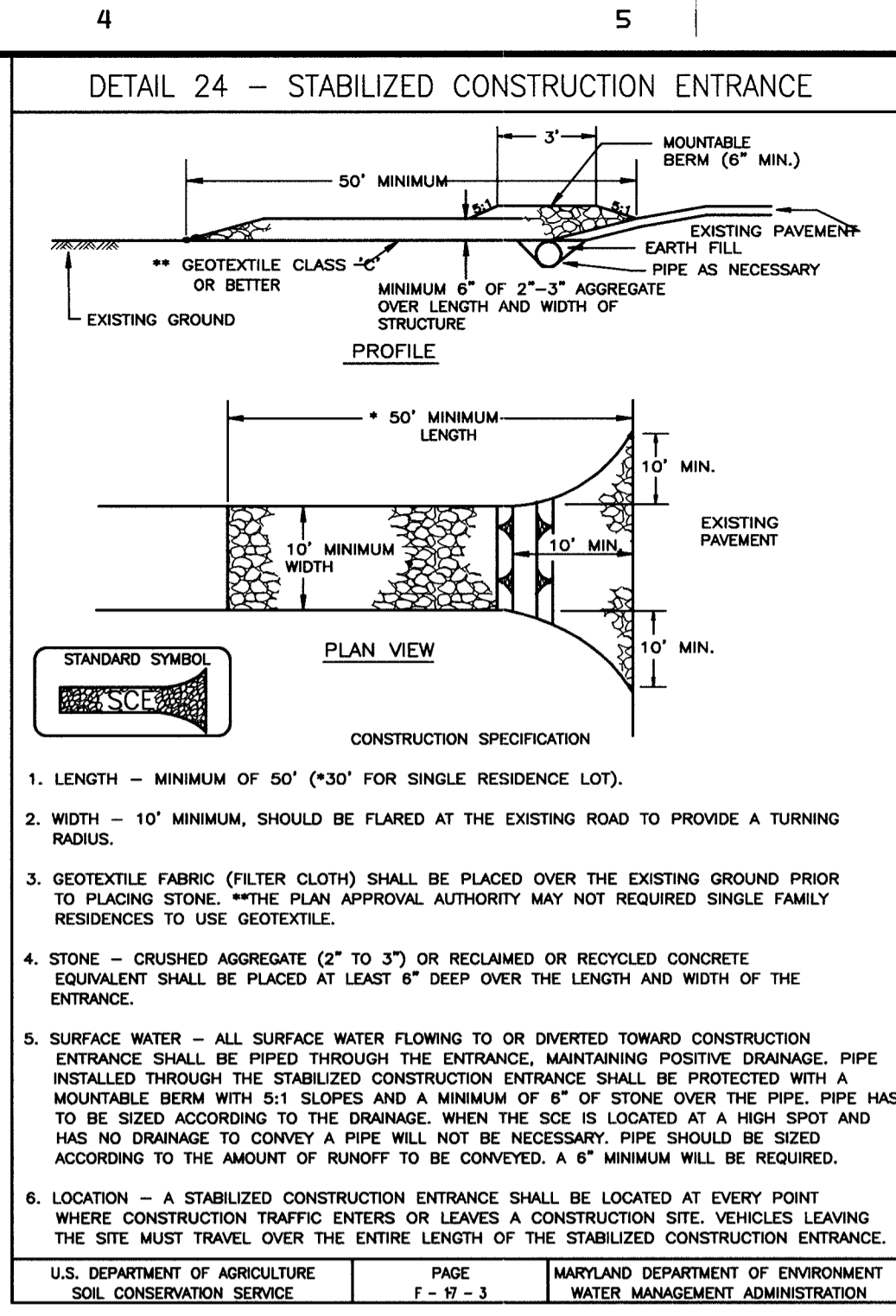
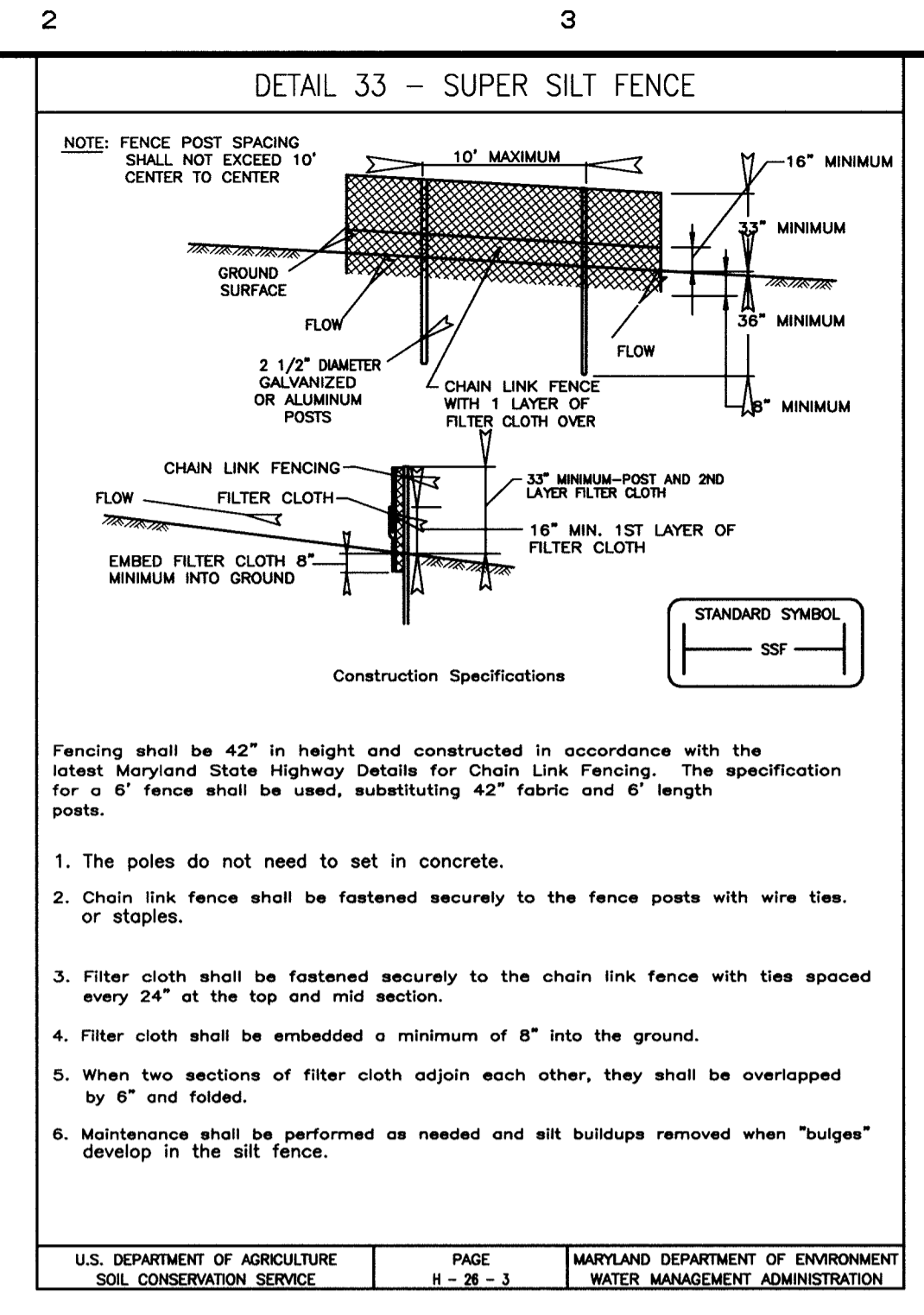
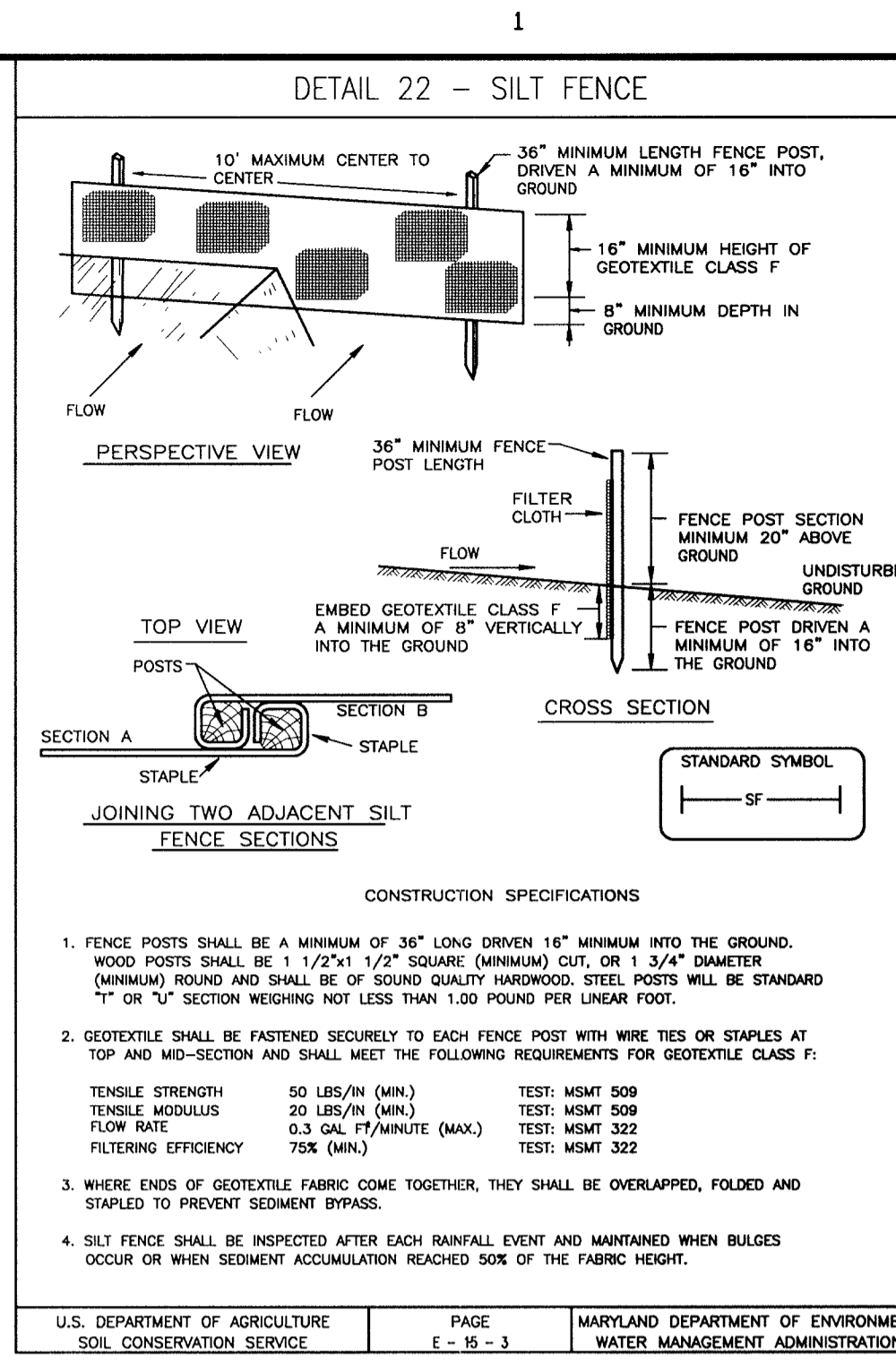
CIVIL
 REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148
 SITE DEVELOPMENT PLAN, EROSION AND SEDIMENT CONTROL PLAN

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 8 OF 13
 C-8



SDP 00-94



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 OF ENGINEER: *Joseph H. Byrnes* DATE: 5/23/00

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."

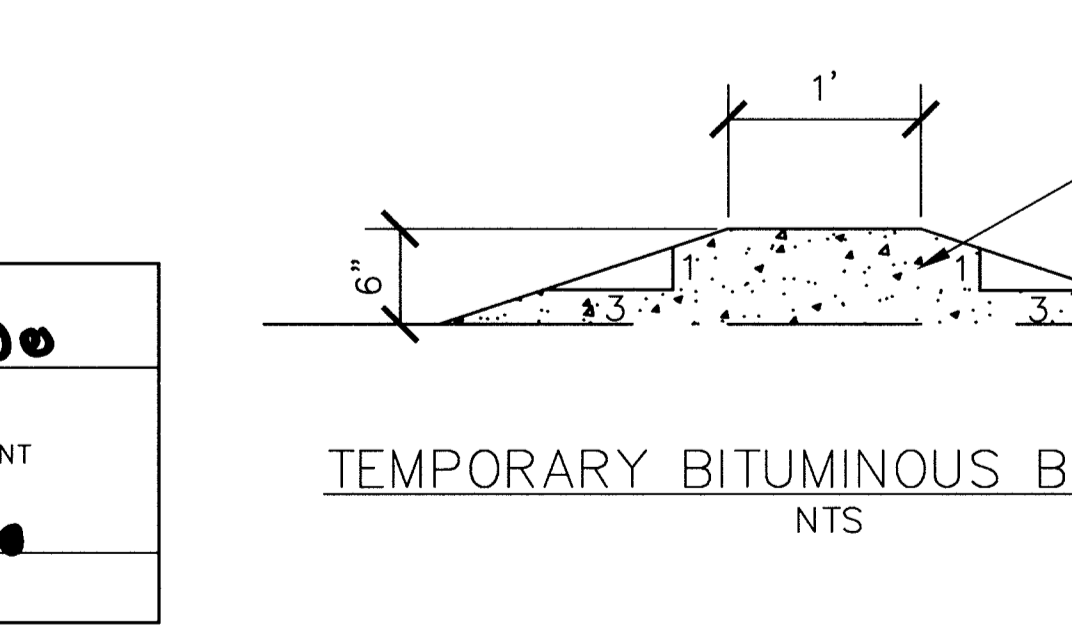
SIGNATURE OF ENGINEER: *Daniel Wald* DATE: 5/21/00

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Keyl Simms 6-5-00
NDA - NATURAL RESOURCES CONSERVATION SERVICE DATE:

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

John DeBartolo 6-5-00
HOWARD SCD DATE:



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Mrs. [Signature] DATE: 6/2/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Andi Hammit DATE: 6/2/00
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] DATE: 6/2/00
DIRECTOR

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Roberty Beaman 5-26-00
CHIEF, BUREAU OF UTILITIES DATE

AMT
A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
12759 TWINBROOK PARKWAY, SUITE 200, ROCKVILLE, MD 20852
TEL: (301) 881-2545 FAX: (301) 881-0814
E-MAIL: JBYRNE@AMTENGINEERING.COM
HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
Gathersburg, Maryland
[Signature] 5/23/00
REG. PROF. ENGR. DATE

DES: AR
DRN: REA
CHK: JB
DATE: 05/01/00

DATE: 05/01/00

REVISIONS AND RECORD OF ISSUE

NO.	BY	CK	APP

CIVIL

REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148

EROSION AND SEDIMENT CONTROL DETAILS

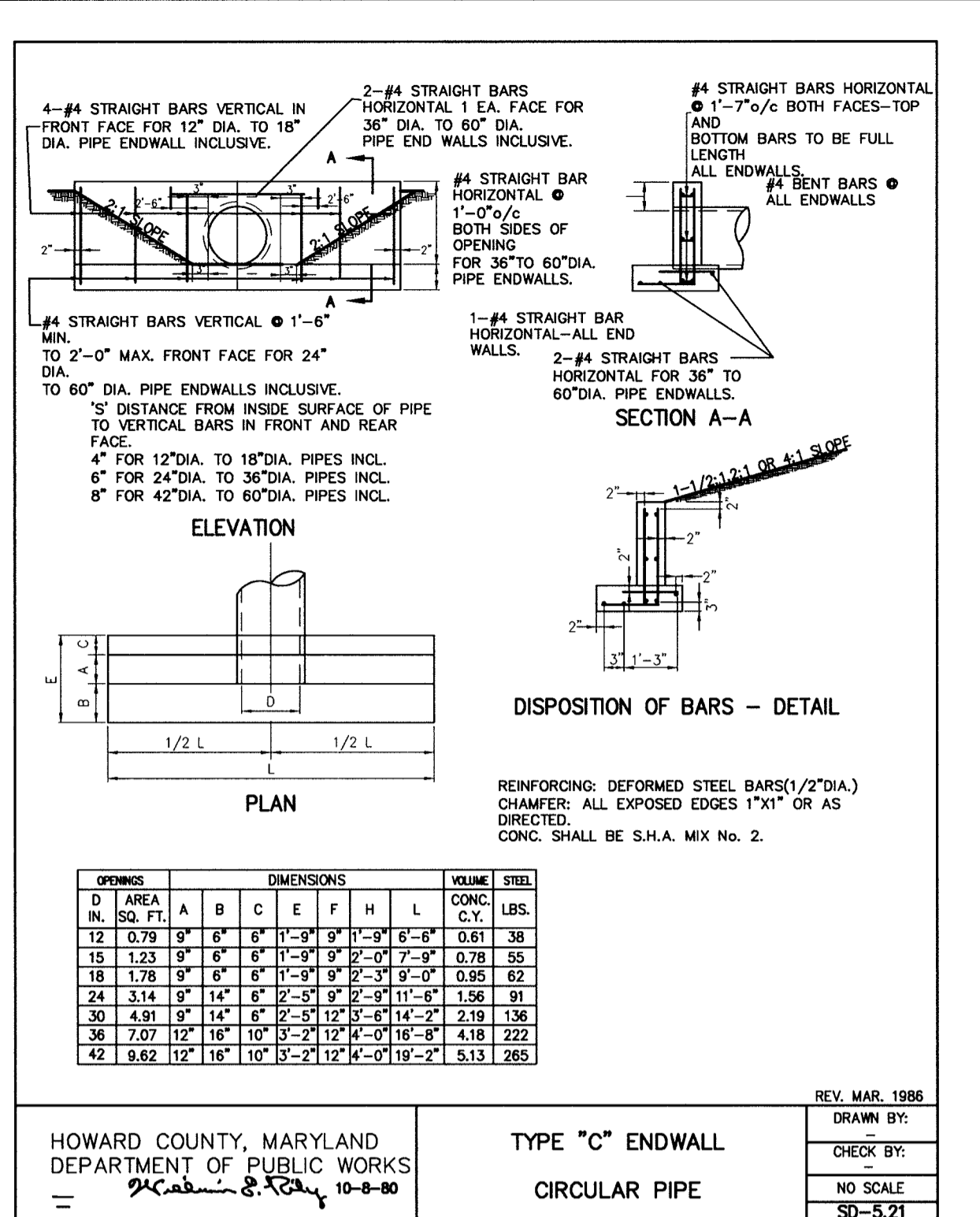
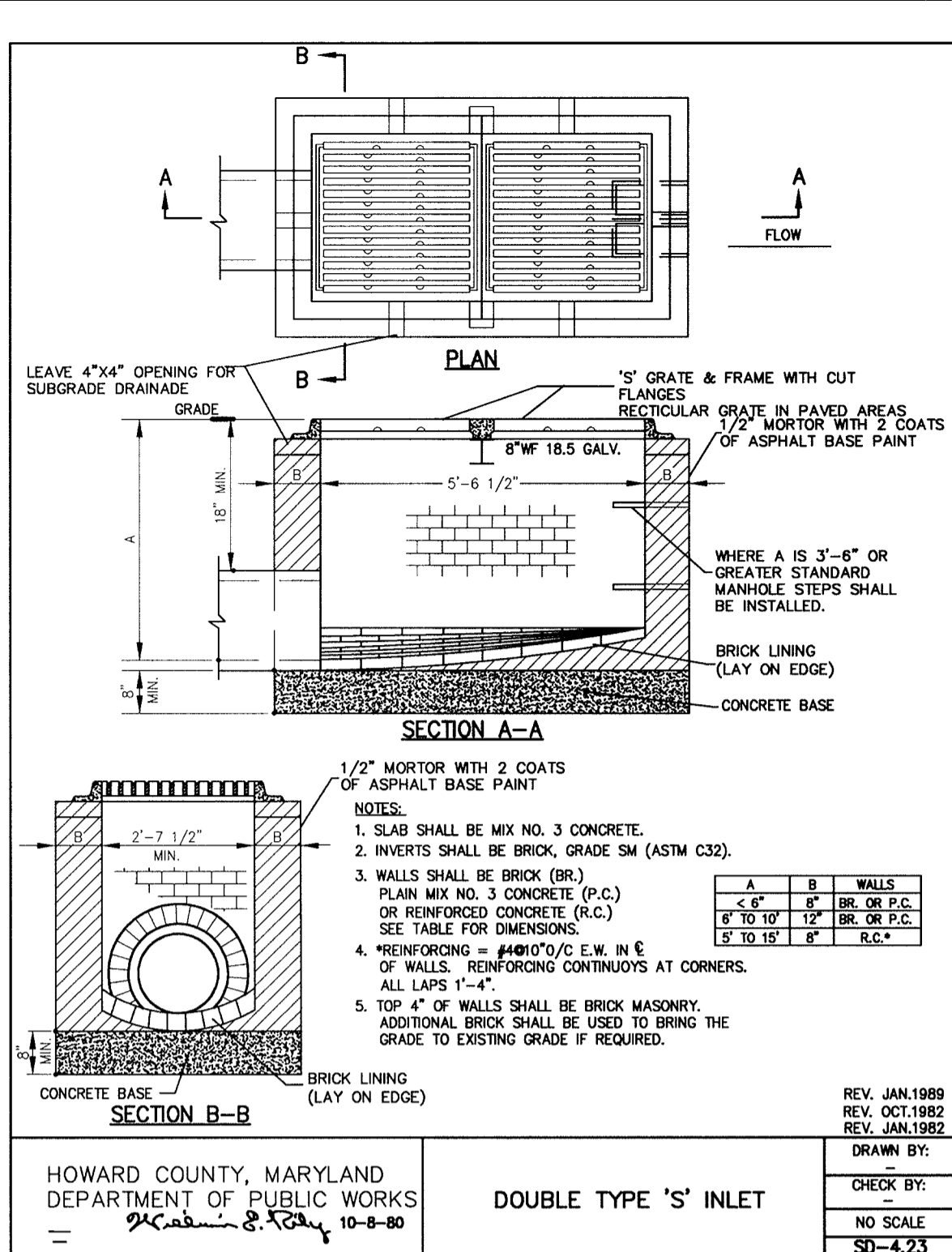
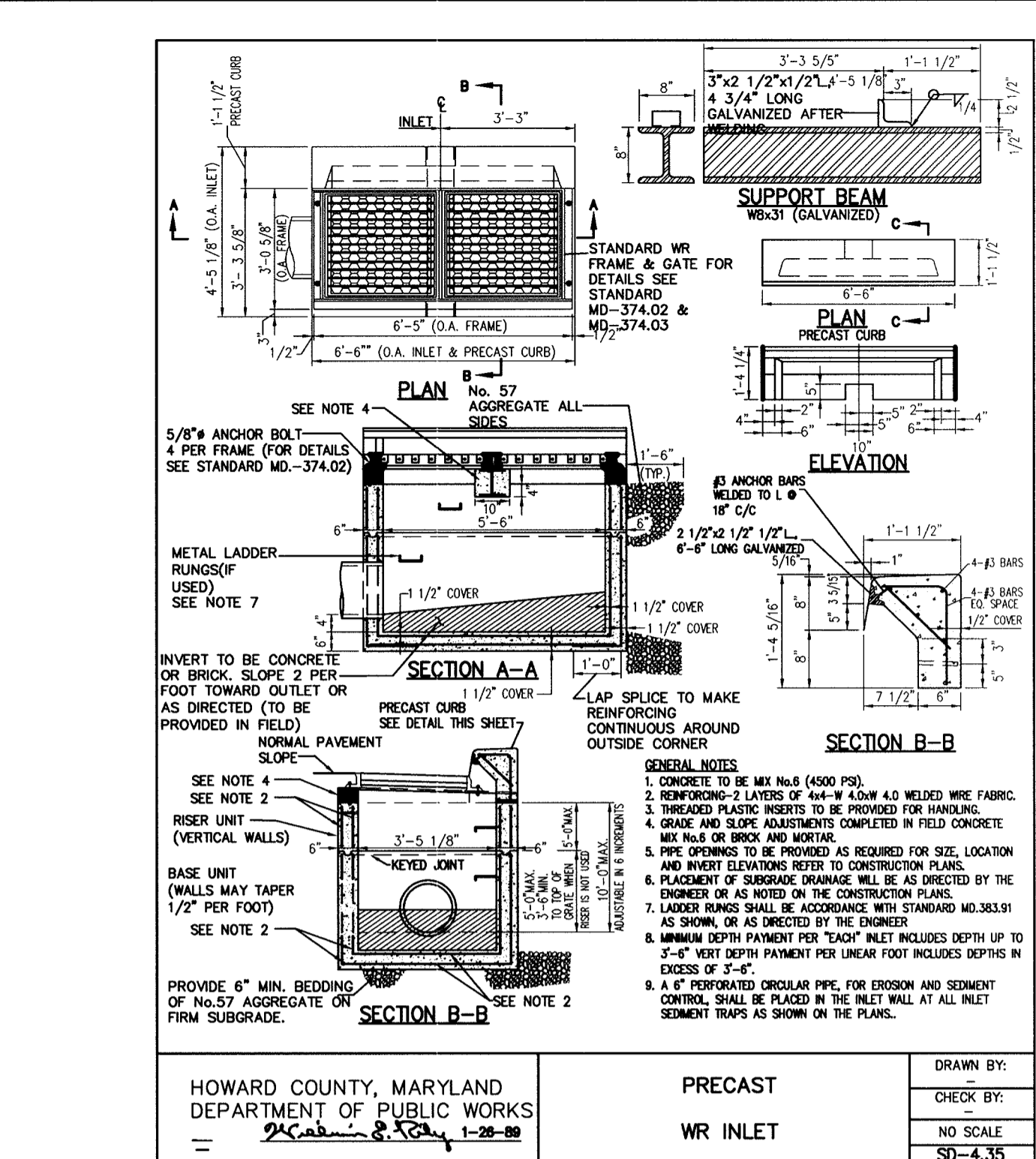
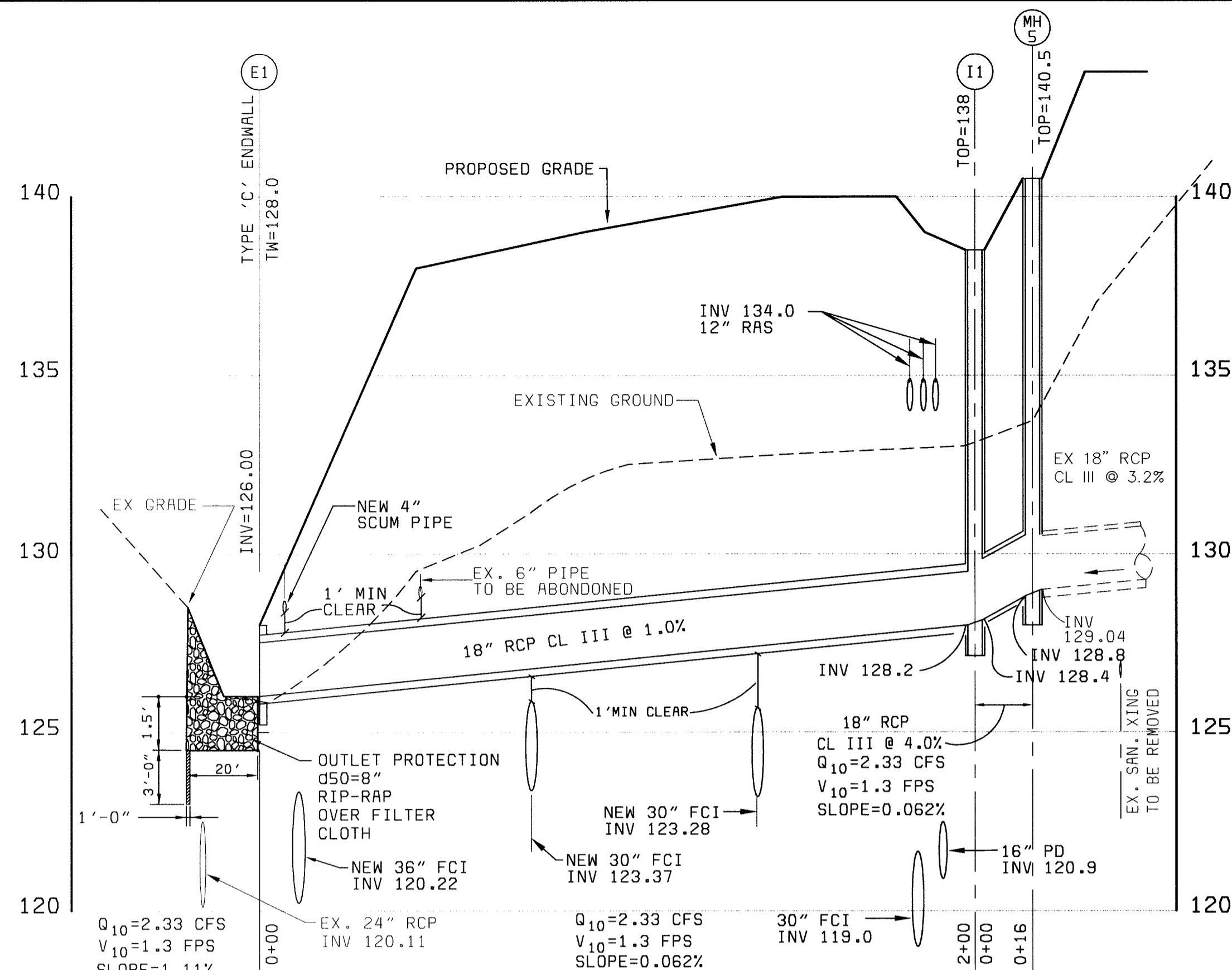
LITTLE PATUXENT WATER RECLAMATION PLANT
ADDITION NO. 6
PARCEL "A"
CAPITAL PROJECT S-6205
CONTRACT NO
ELECTION DISTRICT NO. 6
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 9 OF 13

C-9

SDP00-94



STRUCTURE SCHEDULE

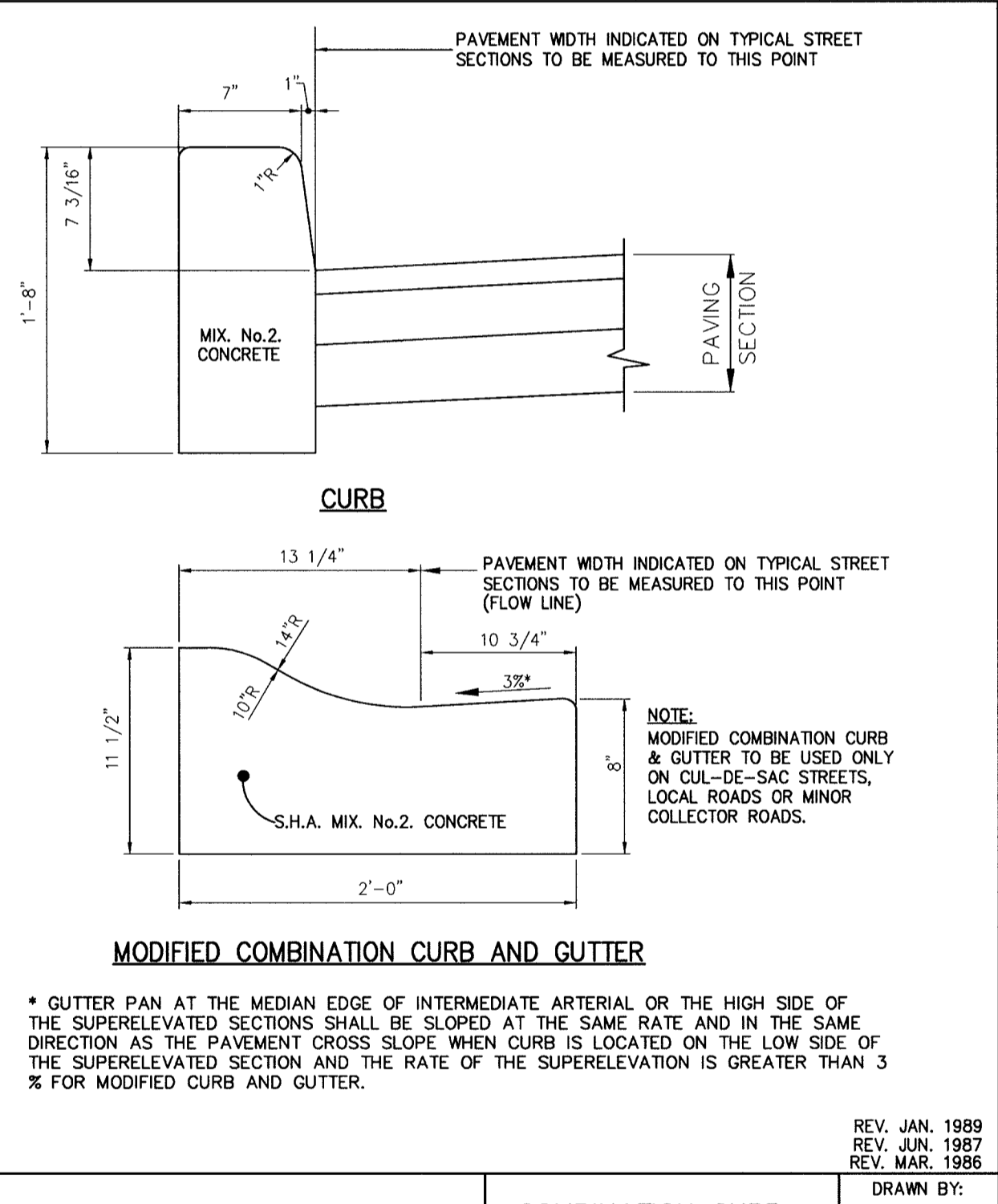
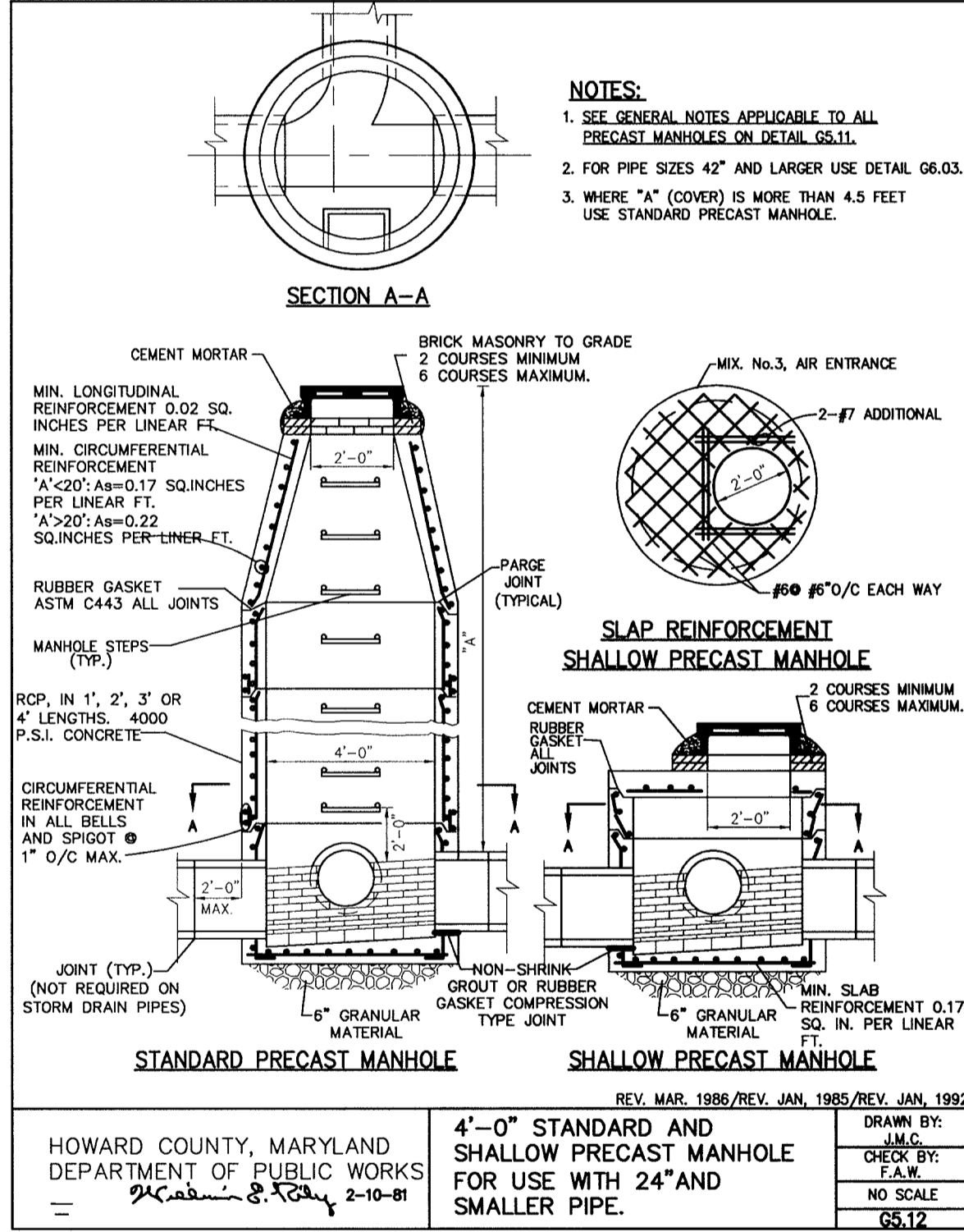
No.	STRUCTURE	INVERT IN	INVERT OUT	TOP ELEV.	REMARKS
I1	INLET (WR FRAME GRATE)	128.4	129.20	138.00	Ho. Co. SD-4.23
I2	INLET	120.97	120.87	127.00	Ho. Co. SD-4.35
MH1	MANHOLE	120.40	120.40	131.0	Ho. Co. GS.12
MH2	MANHOLE	121.32	121.22	129.0	Ho. Co. GS.12
MH3	MANHOLE	122.20	122.10	140.00	Ho. Co. GS.12
MH4	MANHOLE	122.76	122.76	142.40	Ho. Co. GS.12
MH5	MANHOLE	-	128.8	140.50	Ho. Co. GS.12
E-1	ENDWALL	-	126.0	-	Ho. Co. SD-5.21
MH7	MANHOLE	132.68±	132.68±	140.56±	Ho. Co. GS.12

PIPE SCHEDULE

SECTION	PIPE SIZE	PIPE TYPE	LENGTH
MH5 TO I1	18"	RCP CL III	35 LF
I1 TO E-1	18"	RCP CL III	180 LF
MH7 TO E-2	15"	RCP CL III	130 LF
MH4 TO MH3	24"	RCP CL III	57 LF
MH3 TO MH2	24"	RCP CL III	76 LF
MH2 TO I2	24"	RCP CL III	27 LF
I2 TO MH1	24"	RCP CL III	25 LF

PAVING SECTIONS

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING BAYS APARTMENT AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
P-2	RESIDENTIAL ZONES LOCAL CUL-DE-SAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS. TRAVELWAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE 6" GRADED AGGREGATE BASE (GAB)
P-3	RESIDENTIAL ZONES MINOR AND MAJOR COLLECTORS COMMERCIAL-INDUSTRIAL ZONES LOCAL CUL-DE-SAC STREETS ALLEYS TRAVELWAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4 1/2" BIT. CONC. BASE 5" GRADED AGGREGATE BASE (GAB)
P-4	COMMERCIAL-INDUSTRIAL ZONES MINOR COLLECTOR	1 1/2" BIT. CONC. SURFACE 3 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)

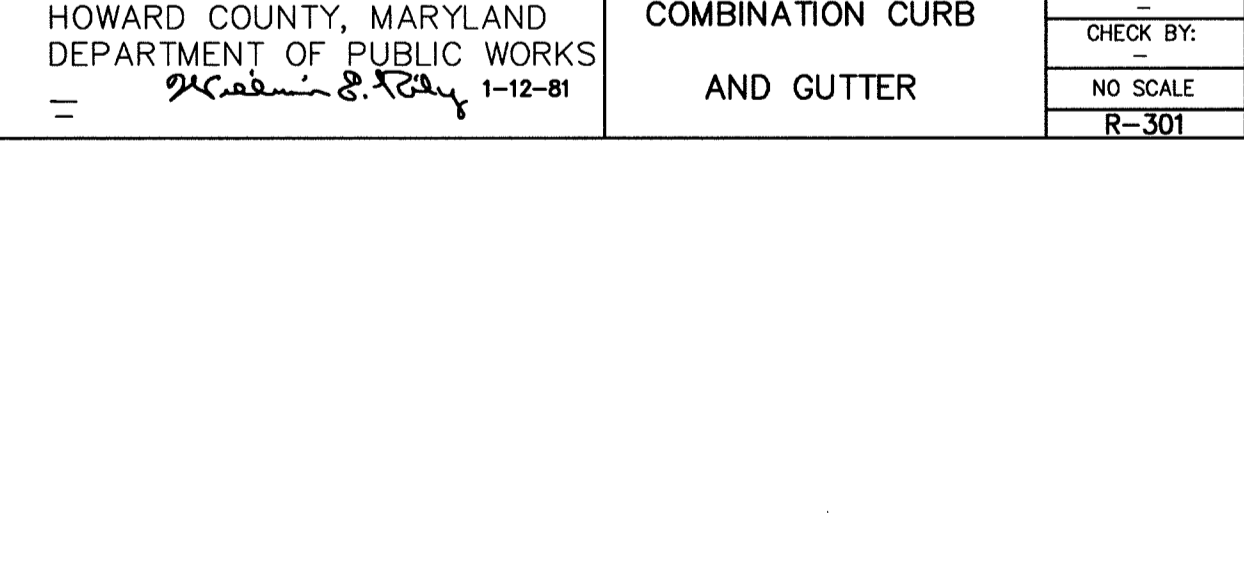
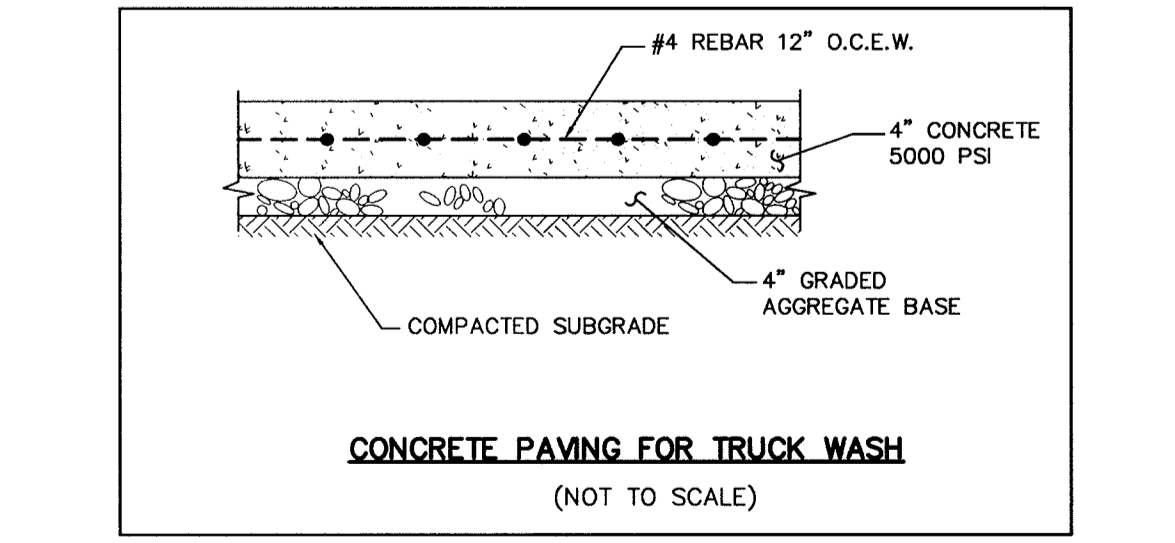
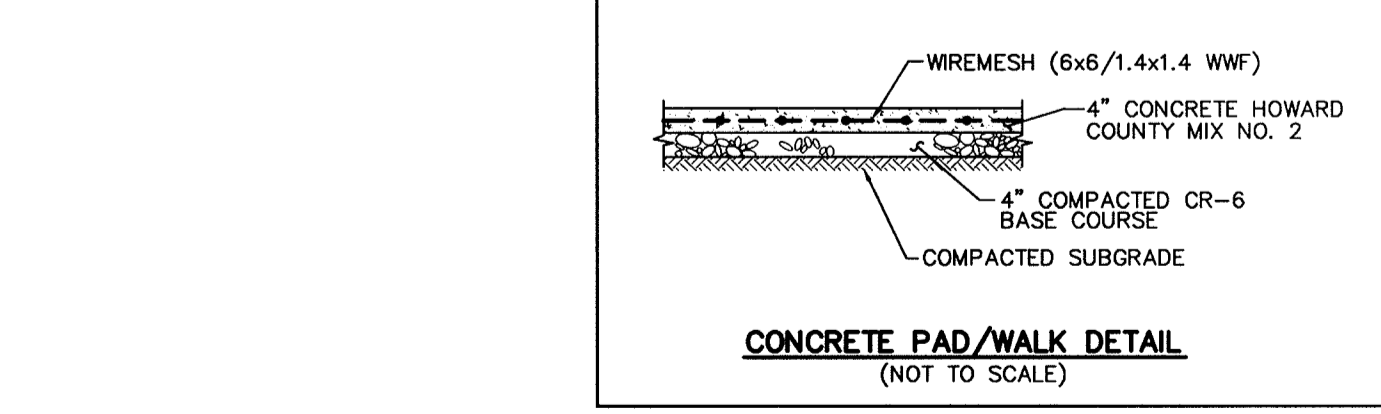


APPROVED: DEPARTMENT OF PLANNING AND ZONING

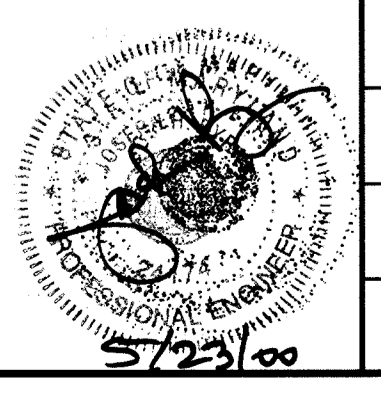
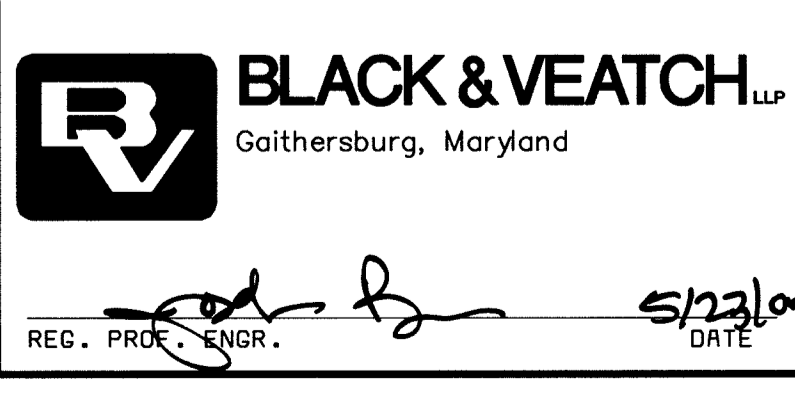
DATE: 6/7/00

DATE: 6/20/00

DATE: 6/21/00



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND



DES: AR

DRN: REA

CHK: JB

DATE: 05/01/00

REVISIONS AND RECORD OF ISSUE

CIVIL

REVISION TO SDP-78-55, 89-62, 92-33 AND F92-72, PLAT 10148

STORM SEWER PROFILE AND SITE DETAILS

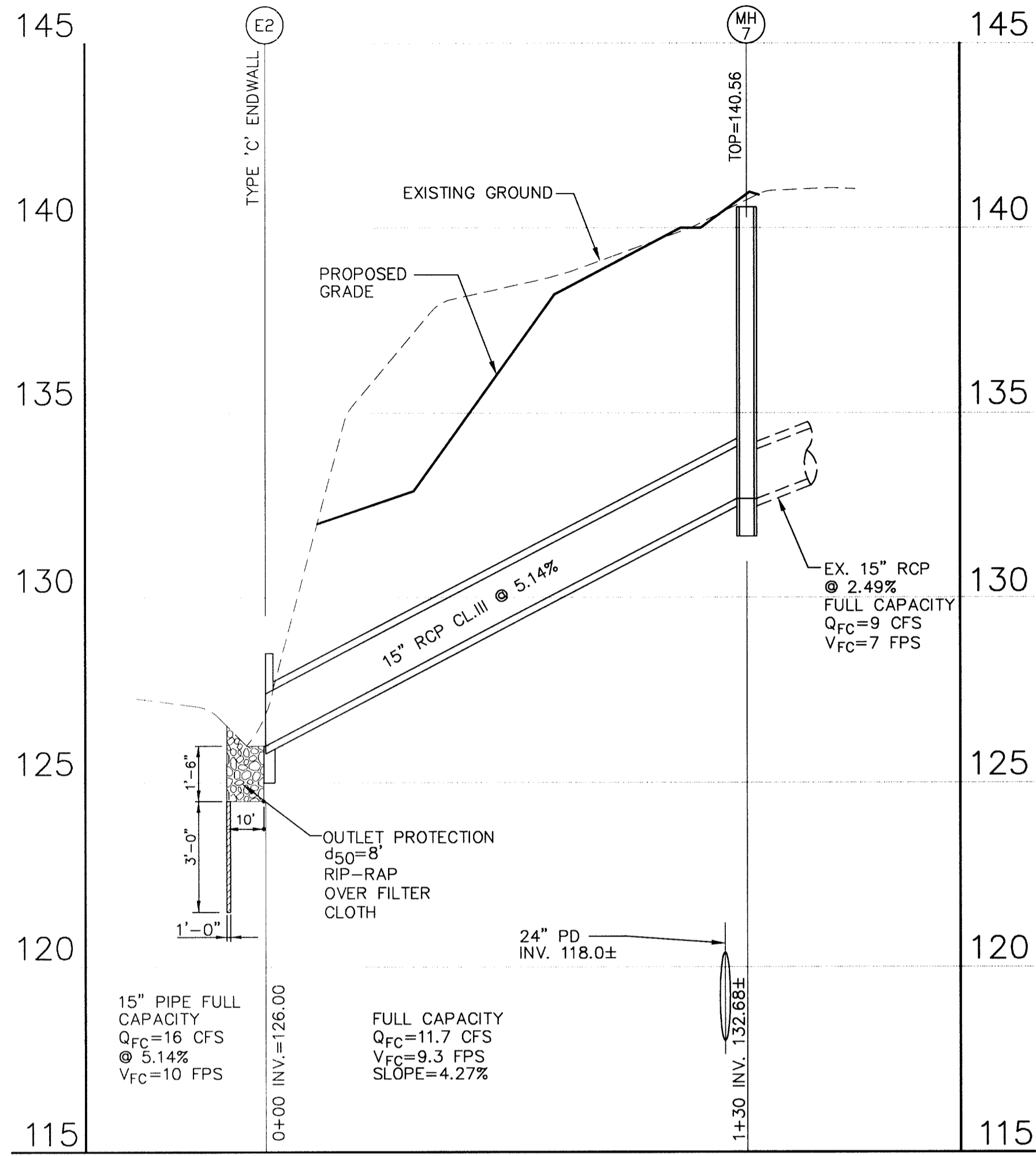
LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

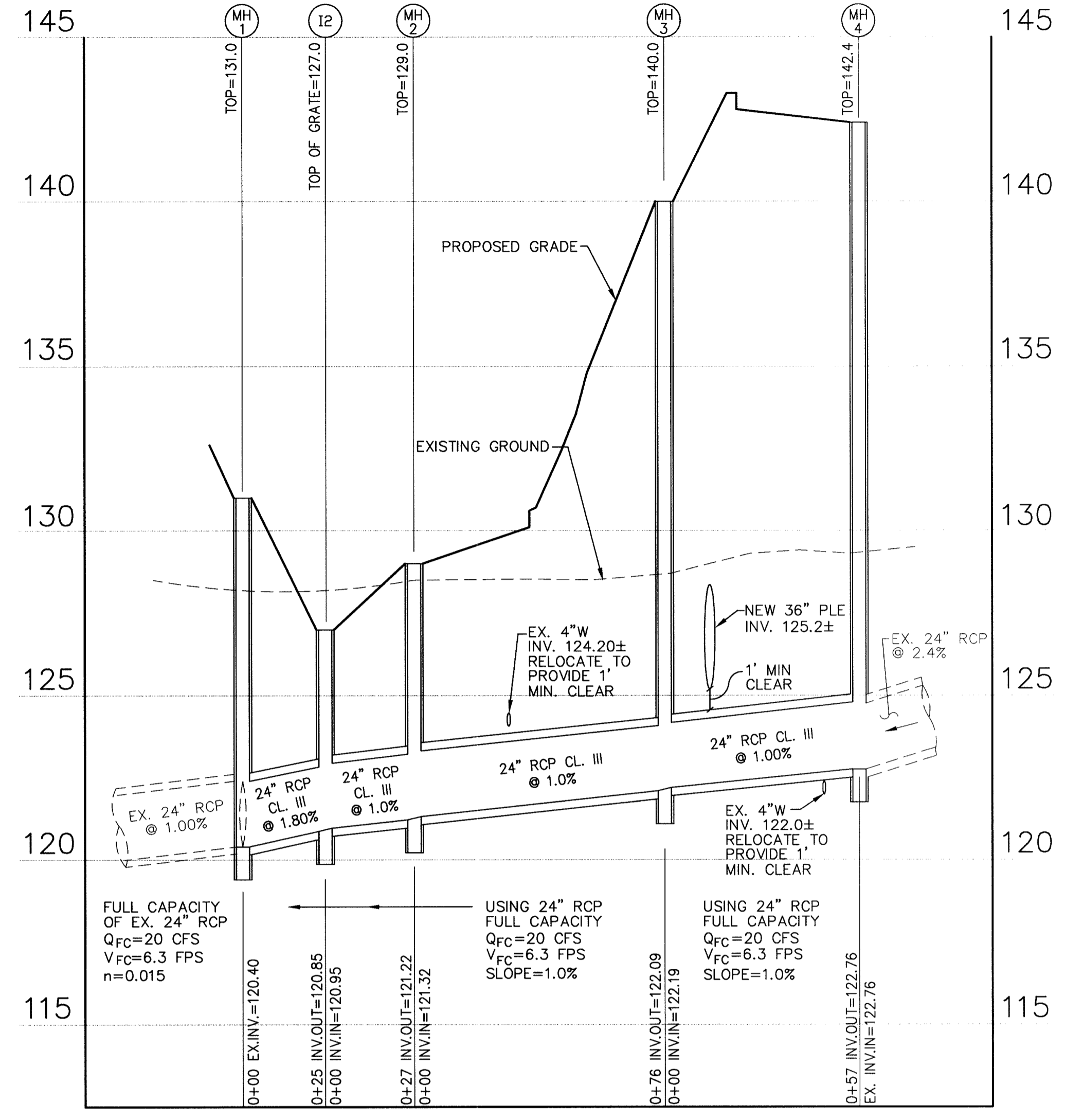
SHEET 11 OF 13

C-11

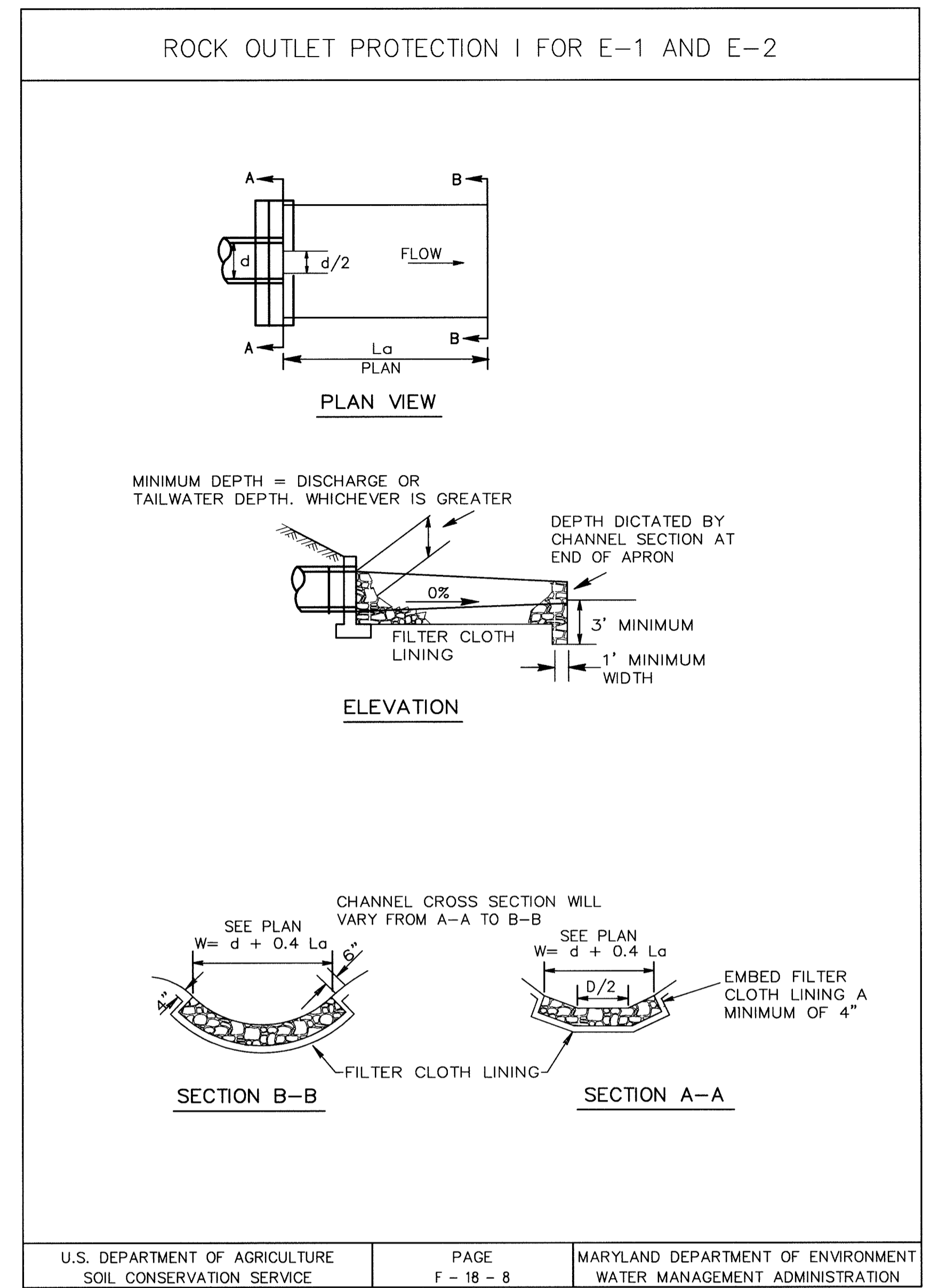
SDP00-9A



STORM PROFILE
SCALE: 1"=30' HORIZONTAL
1"= 3' VERTICAL



STORM PROFILE
SCALE: 1"=30' HORIZONTAL
1"= 3' VERTICAL

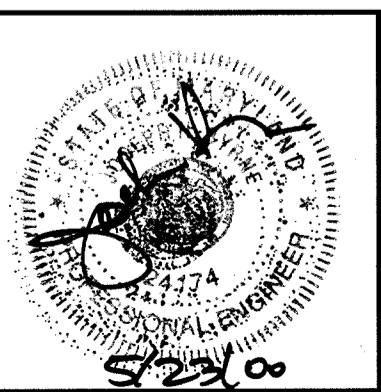


APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE: 6/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE: 6/20/00
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] DATE: 6/21/00
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] DATE: 5-26-00
 CHIEF, BUREAU OF UTILITIES

AMT
 A. MORTON THOMAS AND ASSOCIATES, INC.
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 12750 TWINBROOK PARKWAY, SUITE 200, ROCKYVILLE, MD 20852
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 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH LP
 Gaithersburg, Maryland
 [Signature] DATE: 5/23/00
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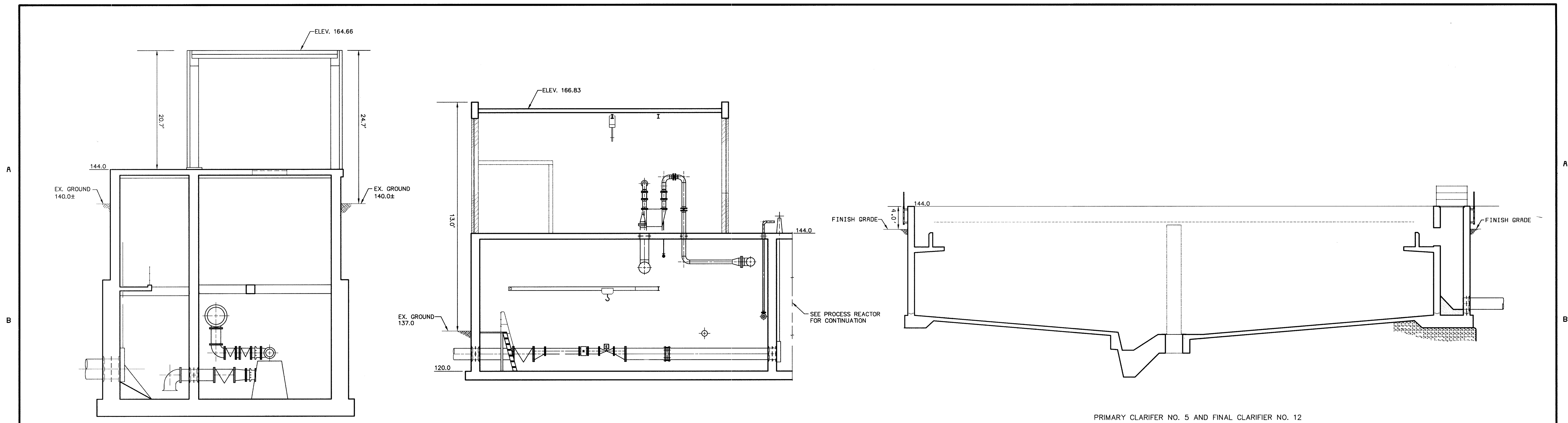
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DATE: 05/01/00	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK APP

CIVIL
 REVISION TO SDP-78-55, 89-62,
 92-33 AND F92-72, PLAT 10148
STORM SEWER PROFILES

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO.
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 12 OF 13
 C-12

SDP00-94

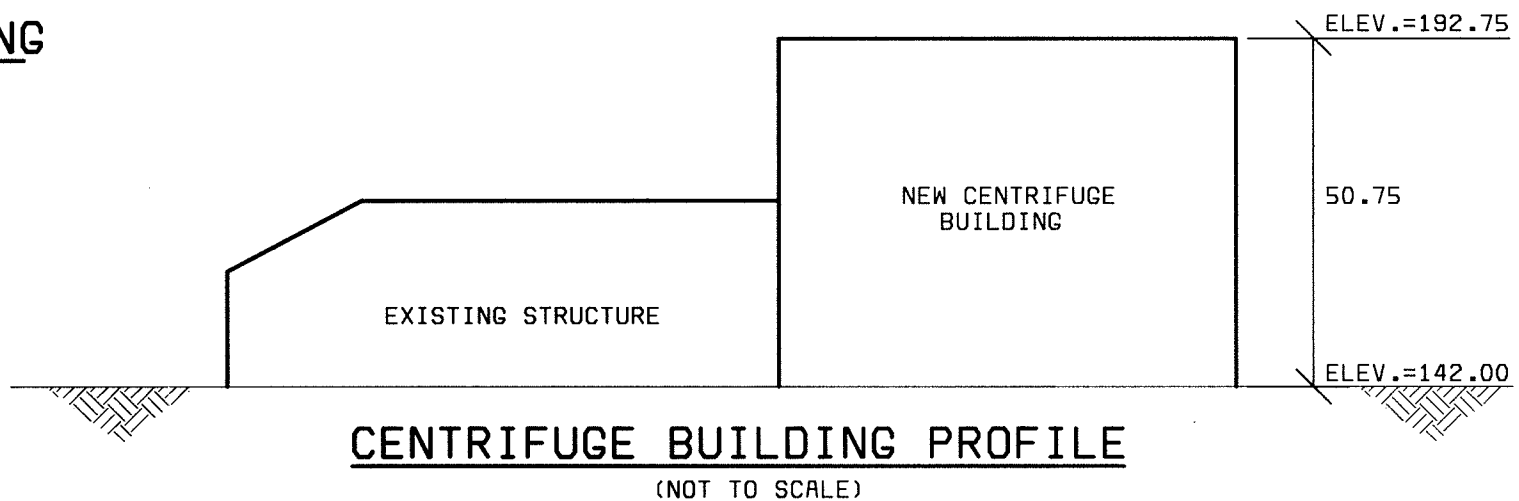


AUXILLARY PUMP STATION
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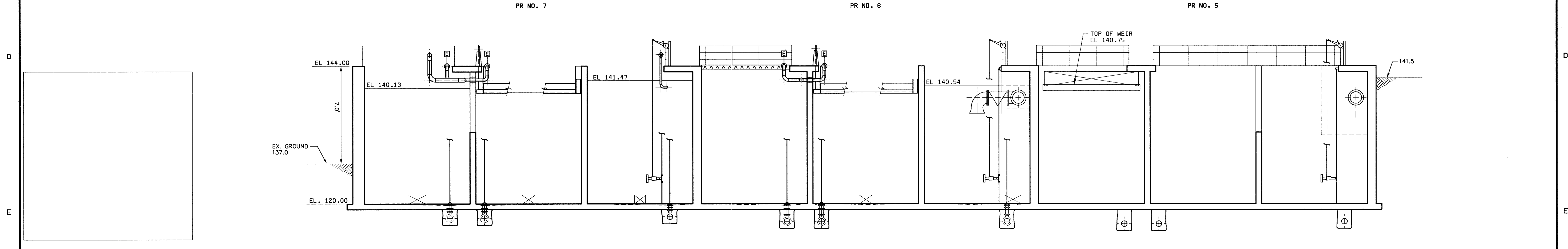
NORTH BLOWER BUILDING
(NOT TO SCALE)

PRIMARY CLARIFER NO. 5 AND FINAL CLARIFER NO. 12

TYPICAL CLARIFIER SECTION
(NOT TO SCALE)



CENTRIFUGE BUILDING PROFILE
(NOT TO SCALE)



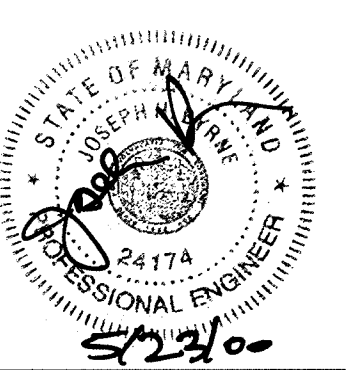
NORTH PROCESS REACTOR SECTION
(NOT TO SCALE)

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/2/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 6/29/00
 DIRECTOR DATE: 6/21/00

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. B. B... 5-26-00
 CHIEF, BUREAU OF UTILITIES DATE

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 HOWARD COUNTY SUBMISSION 05/01/00

BLACK & VEATCH
 Gaithersburg, Maryland
 REG. PROF. ENGR. DATE: 5/22/00



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CHK: JB					
DATE: 05/01/00	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK APP

CIVIL
 REVISION TO SDP-78-55, 89-62,
 92-33 AND F92-72, PLAT 10148
 STRUCTURE SECTIONS

LITTLE PATUXENT WATER RECLAMATION PLANT
 ADDITION NO. 6
 PARCEL "A"
 CAPITAL PROJECT S-6205
 CONTRACT NO
 ELECTION DISTRICT NO. 6
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 13 OF 13
 C-13

SDP00-94