

BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80 ROW - PUBLIC ROAD

DEAD END BARRICADE
 TYPE A (STA 48+25)
 HO. CO. STD. R-7.10

WATER MAIN TABULATION CHART

EASEMENT	
NORTHING & EASTING	APPURTENANCE
N 549,067.473	8"X8" TS&V
E 1,381,403.237	8"X8" T
N 548,853.895	8" V
E 1,381,701.431	8"X6" FHT
N 548,855.521	6" V
E 1,381,702.596	FH
N 549,030.639	8" V
E 1,381,828.041	8"X8" T
N 549,028.474	8" V
E 1,381,829.687	8" CAP & BUTTRSS
N 549,025.591	8"X8" T
E 1,381,835.090	8" V
N 549,057.944	8"X8" T
E 1,381,841.601	8" V
N 549,059.109	8" V
E 1,381,845.975	8"X8" T
N 549,060.383	8" V
E 1,381,849.348	8"X8" T
N 548,819.123	8" V
E 1,381,749.977	8" V
N 548,820.746	8"X8" T
E 1,381,751.140	8" V
N 548,661.887	8"X8" T
E 1,381,969.469	8" V
N 548,663.512	8" V
E 1,381,970.633	1 1/2" DRAIN
N 548,656.536	8" CAP & BUTTRSS
E 1,381,971.786	
N 548,658.101	
E 1,381,974.753	

NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.
 - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER MAIN ADJACENT TO DORSEY RUN ROAD.

MANHOLE LOCATION CHART

MH #	NORTHING & EASTING
EX 488	N 550,062.095
1	E 1,383,506.101
2	N 550,051.408
3	E 1,383,522.060
4	N 549,908.065
5	E 1,383,426.072
6	N 549,589.354
7	E 1,383,184.363
8	N 549,339.170
9	E 1,383,012.983
10	N 549,350.472
11	E 1,382,996.483
12	N 549,607.486
13	E 1,382,746.523
14	N 549,672.710
15	E 1,382,667.808
16	N 549,466.557
17	E 1,382,490.447
18	N 549,257.443
19	E 1,382,362.530
20	N 548,925.881
21	E 1,382,371.793
22	N 548,988.184
23	E 1,382,183.674
24	N 548,662.970
25	E 1,381,950.787
26	N 548,876.069
27	E 1,381,653.206

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.

JOHN H. MEARS, JR. et al
 883/670
 ZONED M-2

PARCEL A-1
 16.79 ACRES
 MCE 152.00

PARCEL B-1

PARCEL B-2

PARCEL B-3

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mack Levy 2/1/00
 DEVELOPER'S SIGNATURE DATE

DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. Jacob Hikmat 2/2/00
 ENGINEER'S SIGNATURE DATE

ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Clay Simmon 2/16/00
 USDA NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John Robertson 2/16/00
 HOWARD SCD DATE

DPZ FILE NOS.
 WP-00-23
 F-00-27
 WP-00-28
 F-00-29

CSX RAILROAD
 (FORMERLY BALTIMORE & OHIO RAILROAD)
 ANNE ARUNDEL COUNTY

OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG,
 BOENDER & ASSOC., INC.
 Engineers Planners Surveyors

5972 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0286 Dalt. (301) 621-6321 Wash. (410) 997-0286 Pac.

Robert Benner 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

John Robertson 2/1/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

engineering	SJD				
illustration	SJD				
approval					
project	98001				
date	FEB 2000	BY	NO.	REVISION	DATE

SEWER PLAN

HOWARD BUSINESS PARK,
 PARCELS A-1 & B-1 THRU B-4
 CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 1" = 50'
 2 of 9

H:\0001\DWG\FINAL\WES\001-WES-20P.dwg 2-7-00 3:55:27 PM EST

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEZ FILE NOS.
 WP-00-23
 F-00-27
 WP-00-26
 F-00-29

DEVELOPER'S SIGNATURE: *Mark Levy* DATE: 2/7/00
 DEVELOPER'S NAME: MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

ENGINEER'S SIGNATURE: *R. Jacobs Hilkmatt* DATE: 2/7/2000
 ENGINEER'S NAME: R. JACOBS HILKMATT

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE:

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

HOWARD SCD DATE:

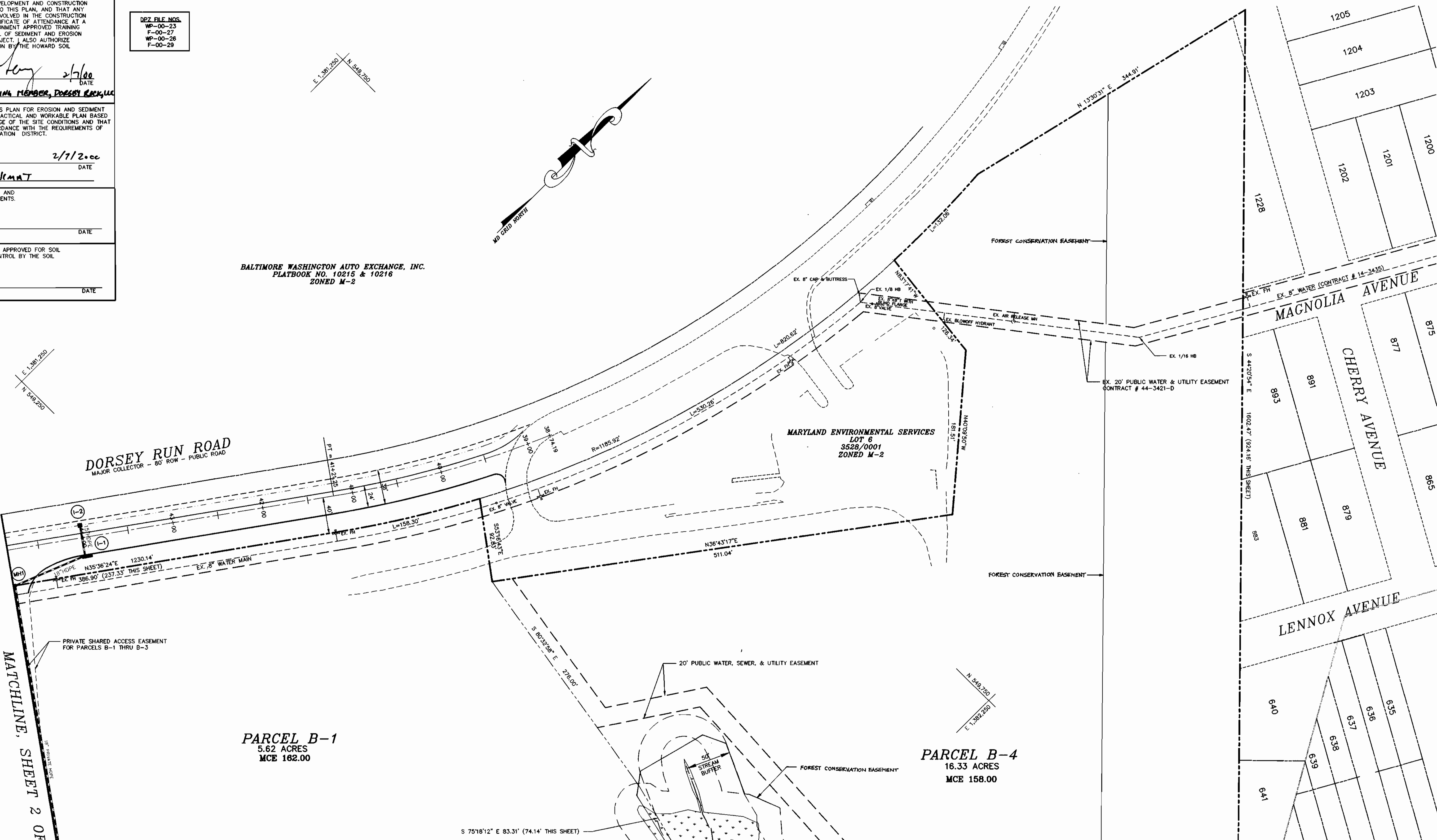
BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80' ROW - PUBLIC ROAD

MARYLAND ENVIRONMENTAL SERVICES
 LOT 6
 3528/0001
 ZONED M-2

PARCEL B-1
 5.62 ACRES
 MCE 162.00

PARCEL B-4
 16.33 ACRES
 MCE 158.00



OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



engineering	SJD				
illustration	SJD				
approval					
project	98001				
date	FEB 2000	BY	NO.	REVISION	DATE

WATER PLAN

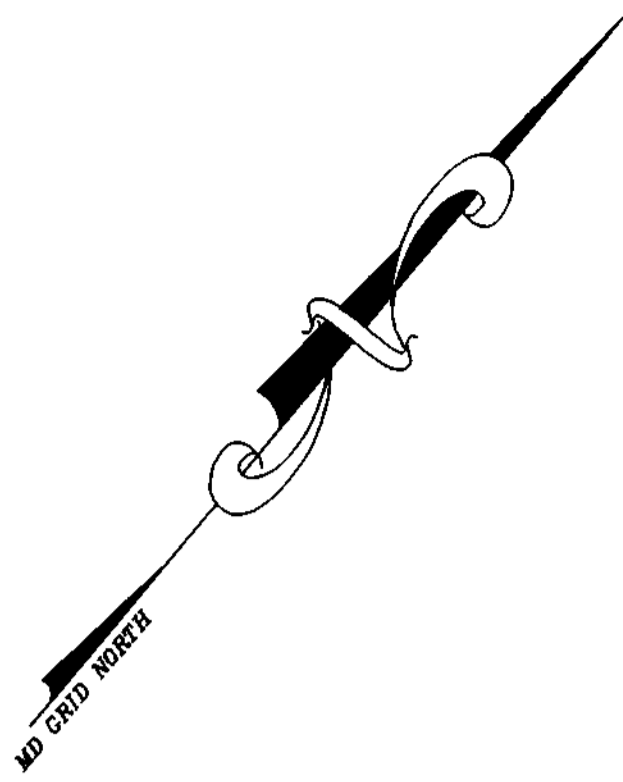
HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 1" = 60'

3 of 9

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E 1,382,000 N 348,500

N 348,500 E 1,382,000

MATCHLINE, SHEET 3 OF 9

MATCHLINE SHEET 5 OF 9

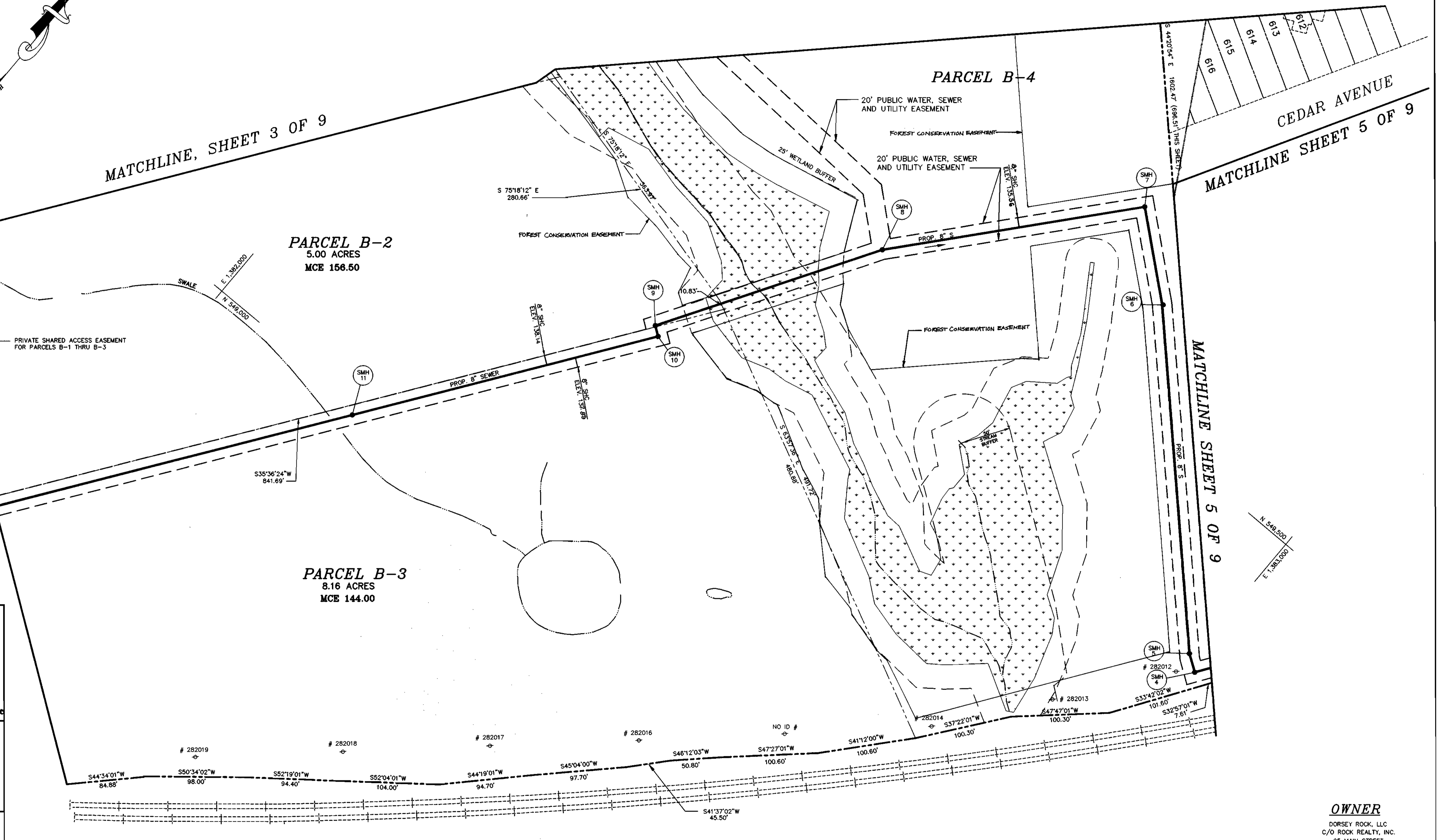
MATCHLINE, SHEET 2 OF 9

MATCHLINE SHEET 5 OF 9

PARCEL B-2
5.00 ACRES
MCE 156.50

PARCEL B-3
8.16 ACRES
MCE 144.00

PARCEL B-4



CSX RAILROAD
(FORMERLY BALTIMORE & OHIO RAILROAD)
ANNE ARUNDEL COUNTY

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Mark Levy 2/7/00
DEVELOPER'S SIGNATURE DATE

MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
DEVELOPER'S NAME

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R. Jacobs 2/7/2000
ENGINEER'S SIGNATURE DATE

R. JACOBS HILKMAT
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND METS TECHNICAL REQUIREMENTS.

Debra Simmons 2/16/00
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John H. ... 2/16/00
HOWARD SCD DATE

DEZ FILE NOS.
WP-00-23
F-00-27
WP-00-26
F-00-29

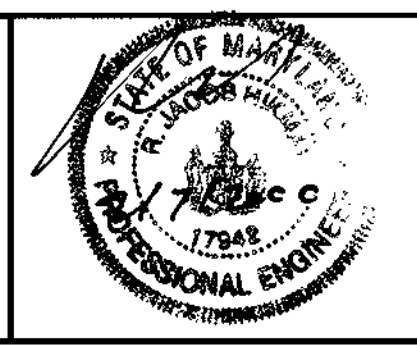
OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG,
BOENDER & ASSOC., INC.
Engineers Planners Surveyors



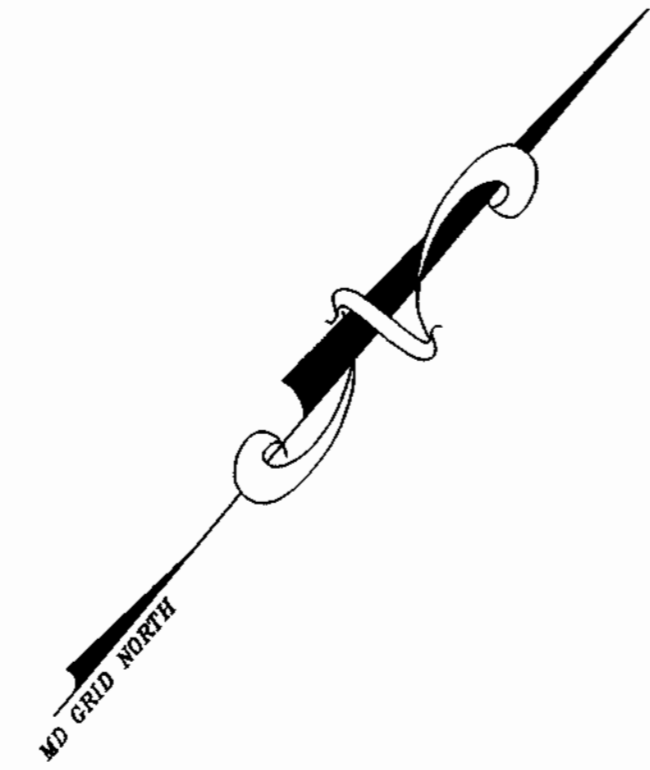
engineering	SJD				
illustration	SJD				
approval					
project	98001				
date	FEB 2000	BY	NO.	REVISION	DATE

SEWER PLAN

HOWARD BUSINESS PARK,
PARCELS A-1 & B-1 THRU B-4
CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

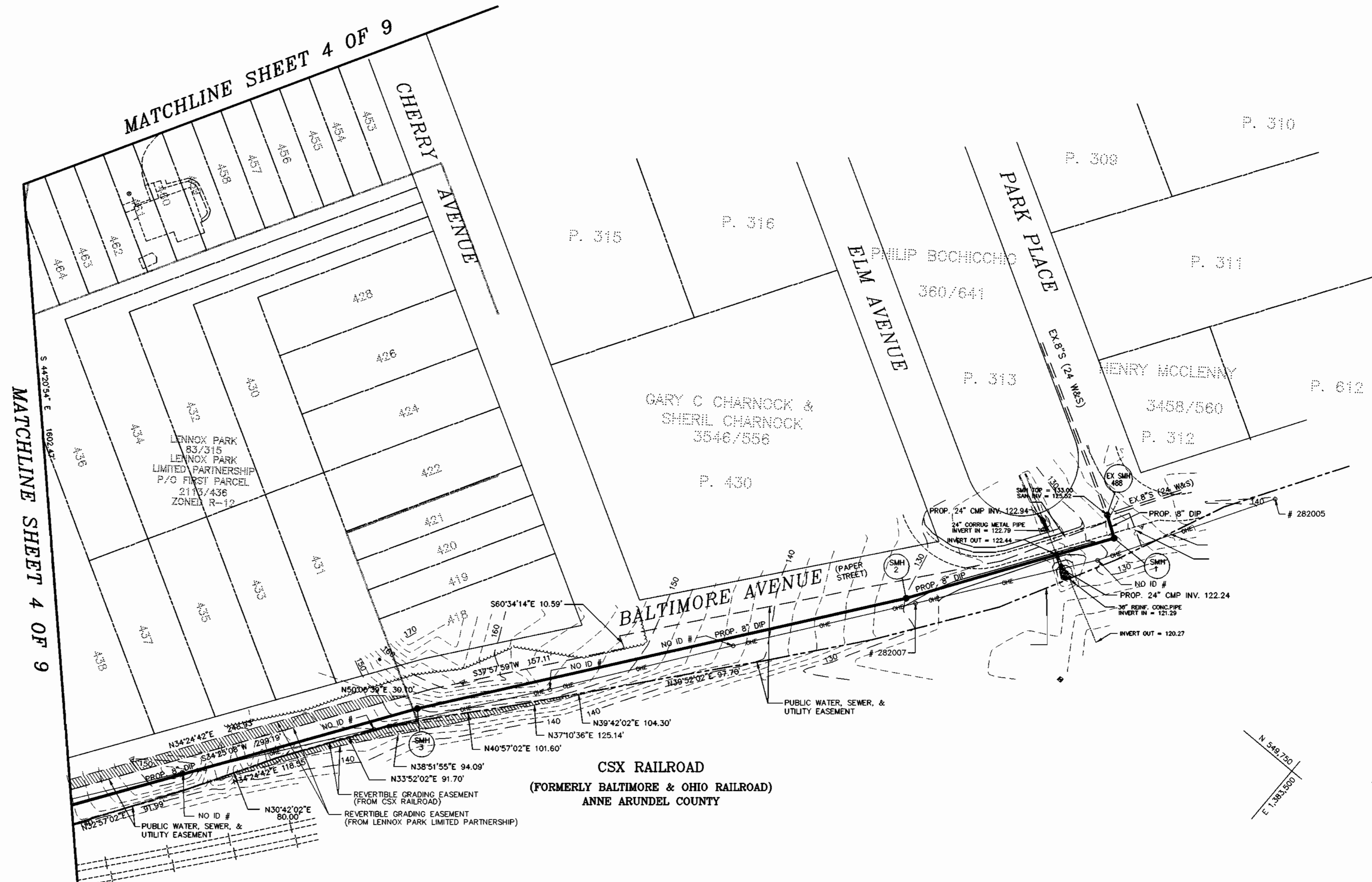
scale
1" = 50'
4 of 9

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E 1,392,500
N 549,750

E 1,392,500
N 549,500



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Mark Levy 2/16/00
DEVELOPER'S SIGNATURE DATE

MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
DEVELOPER'S NAME

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R. Jacob Hinkley 2/17/2000
ENGINEER'S SIGNATURE DATE

R. JACOB HINKLEY
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Debra Simmons 2-16-00
USDA NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John Robertson 2-16-00
HOWARD SCD DATE

DEZ FILE NOS.
WP-00-23
F-00-27
WP-00-26
F-00-29

OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0296 Balt. (301) 621-5521 Wash. (410) 987-0298 Fax.



engineering SJD	
illustration SJD	
approval SJD	
project 98001	
date FEB 2000	
BY NO.	
REVISION	
DATE	

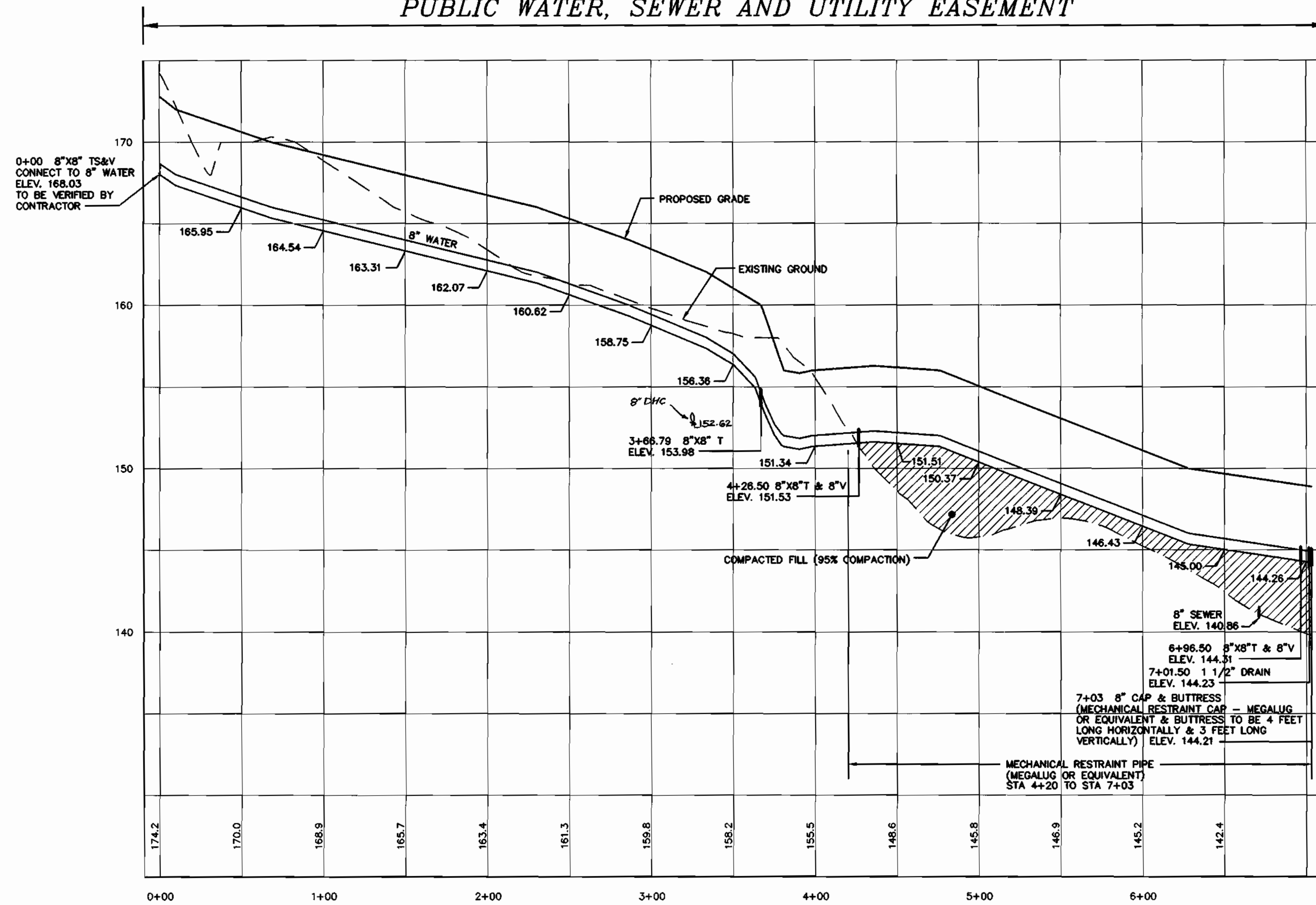
SEWER PLAN
600' SCALE MAP NO. 43 BLOCK NO. 6

**HOWARD BUSINESS PARK,
PARCELS A-1 & B-1 THRU B-4**
CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
1" = 50'
5 of 9

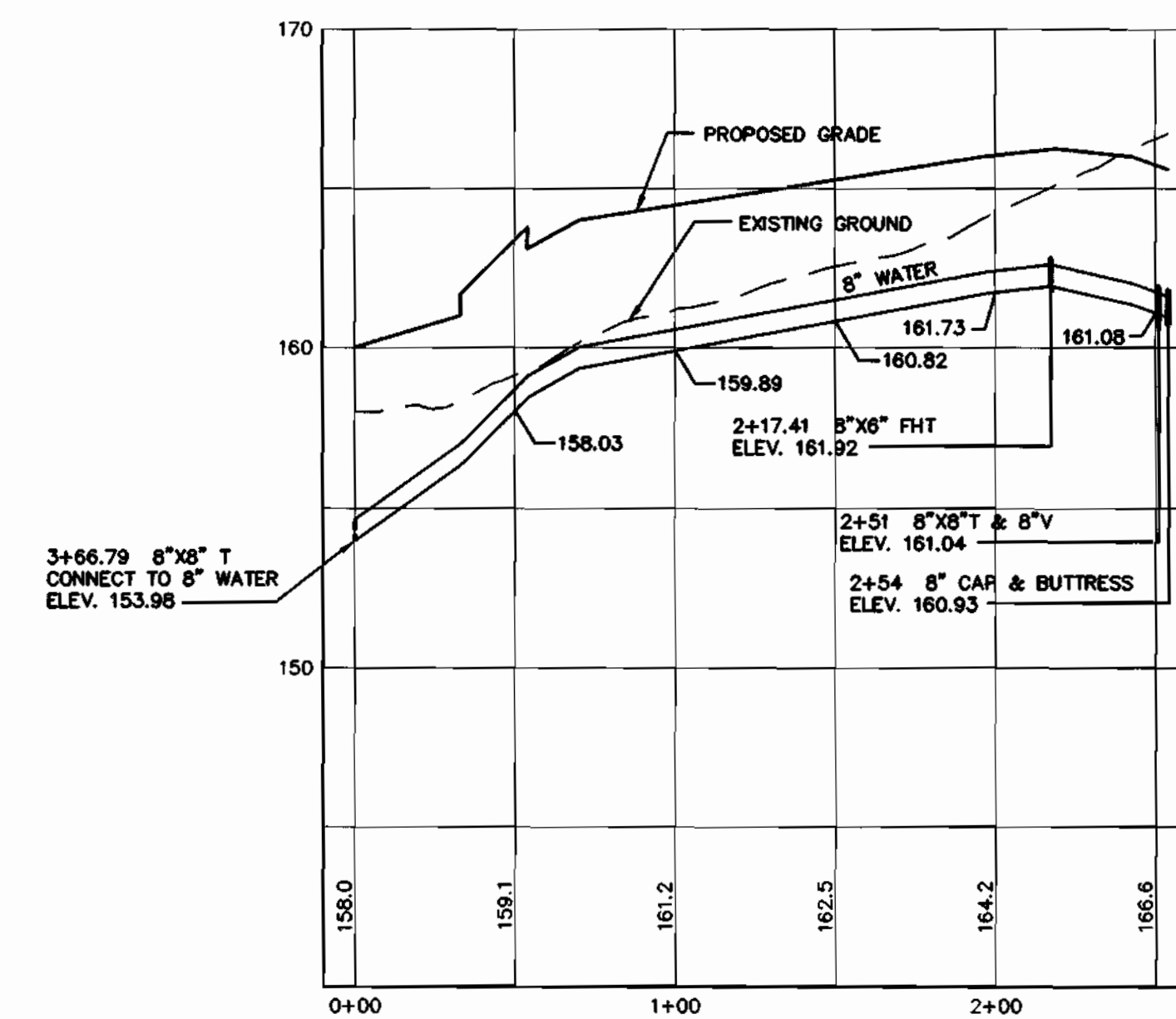
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PUBLIC WATER, SEWER AND UTILITY EASEMENT



WATER MAIN FROM 8"X8" TS&V TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

PUBLIC WATER, SEWER AND UTILITY EASEMENT



WATER MAIN FROM 8"X8" T TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

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5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 987-0296 Fax (301) 621-5521 Work (410) 987-0296 Fax



engineering	SJD				
illustration	SJD				
approval					
project	98001				
date	FEB 2000	BY	NO.	REVISION	DATE

WATER PROFILE

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT No. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

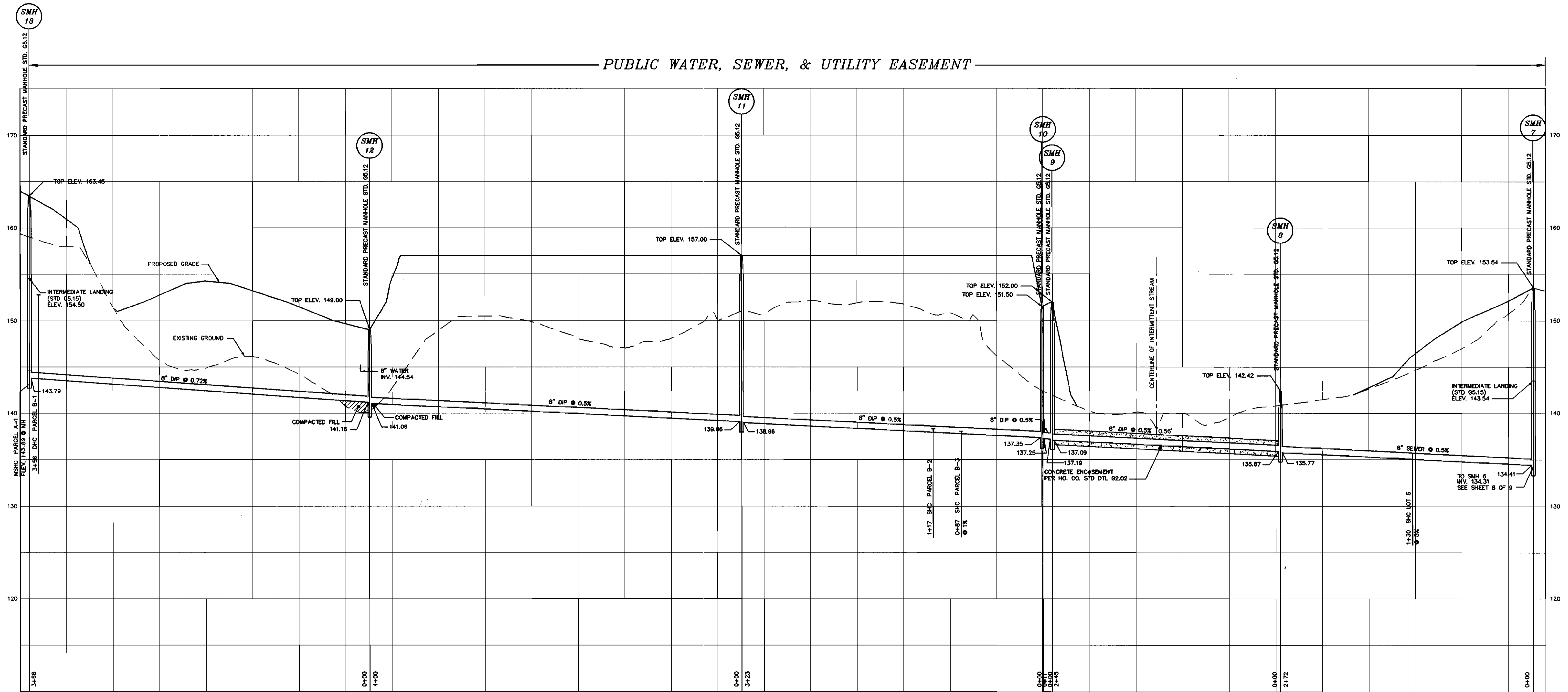
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6 of 9

Robert J. S. J. 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

3/1/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PUBLIC WATER, SEWER, & UTILITY EASEMENT



SEWER PROFILE FROM SMH 13 TO SMH 7

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

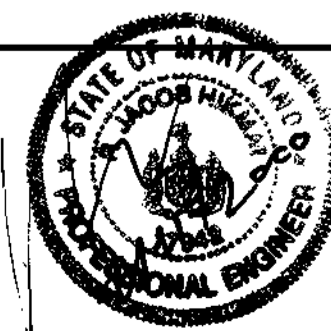
HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

**MILDENBERG,
BOENDER & ASSOC., INC.**

Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Cell (301) 621-5521 Wash. (410) 997-0290 Fax



engineering	SJD			
illustration	SJD			
approval				
project	98001			
date	FEB 2000	BY	NO.	REVISION
DATE	600' SCALE MAP NO. 43	BLOCK NO.	6	

SEWER PROFILE

HOWARD BUSINESS PARK,
PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
AS SHOWN

7 of 9

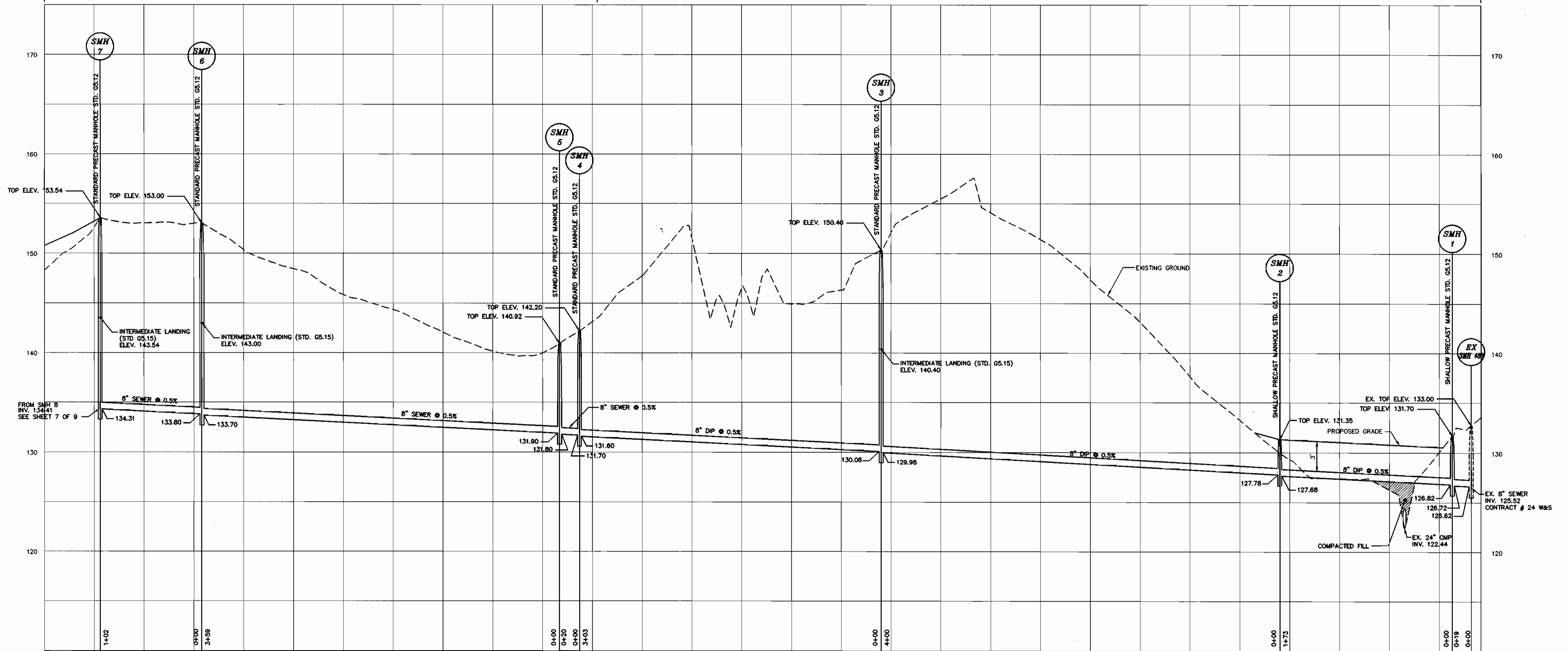
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Robert Benning 2-24-00
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 2/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PUBLIC WATER, SEWER, & UTILITY EASEMENT

OFF-SITE PUBLIC WATER, SEWER, & UTILITY EASEMENT



SEWER PROFILE FROM SMH 7 TO EX. SMH 488

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

OWNER

DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-3775-D

H:\0001\001\FINAL\W&S\01-W&S-8079.dwg 2-2-00 5:05:14 pm EST

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Reinger 2-24-00
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
3/1/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0296 Balt. (301) 621-5521 Wash. (410) 987-0298 Fax



engineering	SJD
illustration	SJD
approval	
project	98001
date	FEB 2000
BY	NO.
REVISION	
DATE	

SEWER PROFILE
600' SCALE MAP NO. 43 BLOCK NO. 6

**HOWARD BUSINESS PARK,
PARCELS A-1 & B-1 THRU B-4**
CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale AS SHOWN
8 OF 9

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:

- PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER 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. PER ACRE 30-0-0 UREA/FORM FERTILIZER (9 LBS./1000 SQ.FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1-4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELLED 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 WELLED ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES

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

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

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

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.), FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLED ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER 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 OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 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.
- 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.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS 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.
- 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:	51.90 ACRES
AREA DISTURBED:	2.75 ACRES
AREA TO BE ROOFED OR PAVED:	0.16 ACRES
AREA TO BE VEGETATIVELY STABILIZED:	2.59 ACRES
TOTAL CUT:	N/A CU. YDS.
TOTAL FILL:	N/A CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION:	

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES MEASUREMENTS.

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - 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.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- 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

- 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 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.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - 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 CONTASTING 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.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - 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 DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
 - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 - pH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A pH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TO 6.5 OR HIGHER.
 - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - 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 HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND 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.

- TOPSOIL APPLICATION
 - 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.
 - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.
 - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING 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.
 - 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 MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
 - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
 - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOROUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
 - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
 - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

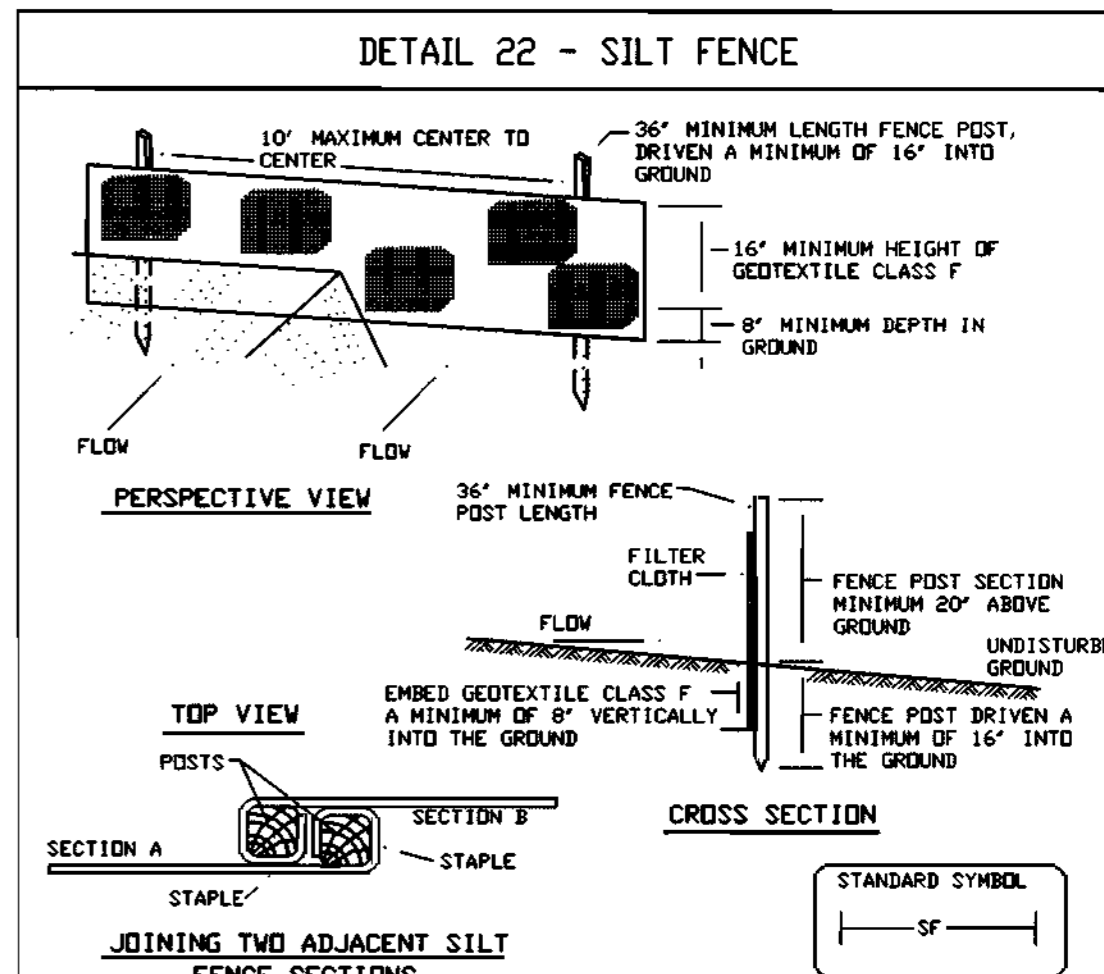
REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

SEQUENCE OF CONSTRUCTION

- OBTAIN THE REQUIRED GRADING PERMIT.
- CLEAR AND GRUB AREAS SURROUNDING SEDIMENT CONTROL FEATURES.
- CLEAR AND GRUB AS NECESSARY. ONLY AS REQUIRED FOR EXCAVATION AND INSTALLATION OF THE WATER AND SEWER MAINS ONLY WITHIN THE DESIGNATED WATER, SEWER AND UTILITY EASEMENTS. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF UTILITY TRENCH/AREAS OF EXISTING PAVEMENT, STABILIZE WITH STONE AGGREGATE UNTIL PERMANENT PAVING REPAIR CAN BE DONE.
- PLACE SILT FENCE AT DOWN STREAM LIMITS OF PREVIOUS DAYS CONSTRUCTION PRIOR TO COMMENCEMENT OF FUTURE EXCAVATION. SILT FENCE TO EXTEND ACROSS WIDTH OF DISTURBED AREA.
- CONSTRUCT STREAM CROSSING IN ACCORDANCE WITH DETAIL WPR 2.3 AS SHOWN ON THIS SHEET. PLACE RIP-RAP AS SHOWN ON DETAIL.
- STABILIZE, SEED & MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET.
- INSPECT ALL SEDIMENT CONTROL DEVICES DAILY AND AFTER EACH RAINFALL, REPAIR AS NECESSARY.
- WHEN ALL CONTRIBUTING AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN PERMANENTLY STABILIZED AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.
- FOLLOWING INITIAL SOILS DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SLOPES GREATER THAN 3:1
 - 14 CALENDAR DAYS FOR ALL OTHER DISTURBED GRADED AREAS ON THE PROJECT SITE.

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal sq ft/minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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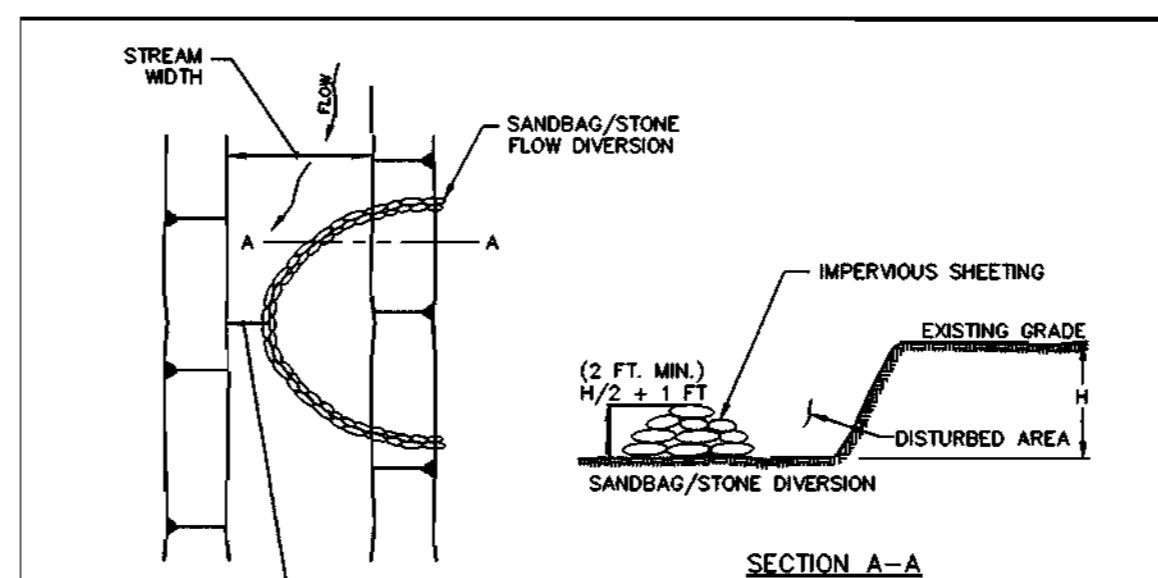
SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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- DESCRIPTION**
THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.
- MATERIAL SPECIFICATIONS**
 - SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRAVIOLET RADIATION, TEARING AND PUNCTURE AND WOVEN TIGHT ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E., SAND, FINE GRAVEL, ETC.)
 - STONE: STONE SHALL BE WASHED AND HAVE A MINIMUM DIAMETER OF 6 INCHES.
 - SHEETING: SHEETING SHALL CONSIST OF POLYETHYLENE OR OTHER MATERIAL WHICH IS IMPERVIOUS AND RESISTANT TO PUNCTURE AND TEARING.
- CONSTRUCTION REQUIREMENTS**
 - ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
 - THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
 - THE HEIGHT OF THE DIVERSION STRUCTURE SHALL BE ONE HALF THE DISTANCE FROM STREAM BED TO STREAM BANK PLUS ONE FOOT, AS INDICATED ON THE CROSS SECTION VIEW.
 - ALL EXCAVATED MATERIALS SHALL BE DISPOSED OF IN A SCD APPROVED DISPOSAL AREA OUTSIDE THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS BY THE WRA.
 - ALL DEWATERING OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A DEWATERING BASIN PRIOR TO RE-ENTERING THE STREAM.
 - SHEETING SHALL BE OVERLAPPED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST AN 18-INCH OVERLAP.
 - SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

WATER RESOURCES ADMINISTRATION	SANDBAG/STONE DIVERSION	APPROVED ON _____	WPD
		CHIEF, WATERWAY PERMITS	2.3

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Developer's Signature: *Mark Levy* DATE: 2/16/00
 DEVELOPER'S NAME: MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
 ENGINEER'S SIGNATURE: *R. J. Sims* DATE: 2/16/00
 ENGINEER'S NAME: R. J. SIMS, HIKMAT
 REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.
 USDC-NATURAL RESOURCES CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
 HOARD SCD
 DEPT. FILE NOS. WP-00-23 F-00-27 WP-00-26 F-00-29

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
 DATE: 2-24-00
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
 DATE: 3/16/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0236 Balz (301) 821-5521 Wash. (410) 997-0236 Fax



engineering SA	
illustration SA/SJD	
approval	
project 98001	
date FEB 2000	
BY NO.	
REVISION	

DATE	600' SCALE MAP NO. 43	BLOCK NO. 8
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OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

scale
 NOT TO SCALE
 9 of 9

SEDIMENT CONTROL NOTES & DETAILS

BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80' ROW - PUBLIC ROAD

DEAD END BARRICADE
 TYPE A (STA 48+25)
 HO. CO. STD. R-7.10

WATER MAIN TABULATION CHART

EASEMENT	
NORTHING & EASTING	APPURTENANCE
N 549,067.473	8"X8" TS&V
E 1,381,403.237	8"X8" T
N 548,853.895	8" V
E 1,381,701.431	8" V
N 548,855.521	8"X6" FHT
E 1,381,702.596	FH
N 549,030.639	6" V
E 1,381,828.041	FH
N 549,029.474	8"X8" T
E 1,381,829.667	8" V
N 549,025.591	8"X8" T
E 1,381,835.090	8" V
N 549,057.944	8"X8" T
E 1,381,847.601	8" V
N 549,059.109	8"X8" T
E 1,381,845.975	8" V
N 549,060.383	8"X8" T
E 1,381,849.348	8" V
N 548,819.123	8"X8" T
E 1,381,749.977	8" V
N 548,820.746	8" V
E 1,381,751.140	8"X8" T
N 548,661.887	8" V
E 1,381,969.469	8"X8" T
N 548,663.512	8" V
E 1,381,970.633	1 1/2" DRAIN
N 548,656.536	8" CAP & BUTTRESS
E 1,381,971.786	
N 548,658.101	
E 1,381,974.753	

NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.
 - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER MAIN ADJACENT TO DORSEY RUN ROAD.

MANHOLE LOCATION CHART

MH #	NORTHING & EASTING
EX 488	N 550,062.095
1	E 1,383,506.101
2	N 550,051.408
3	E 1,383,522.060
4	N 549,908.065
5	E 1,383,426.072
6	N 549,589.354
7	E 1,383,184.363
8	N 549,339.170
9	E 1,383,012.983
10	N 549,350.472
11	E 1,382,996.483
12	N 549,607.486
13	E 1,382,746.523
	N 549,672.710
	E 1,382,667.608
	N 549,466.557
	E 1,382,490.447
	N 549,257.443
	E 1,382,362.630
	N 548,925.881
	E 1,382,371.793
	N 548,988.184
	E 1,382,183.674
	N 548,662.870
	E 1,381,950.787
	N 548,876.069
	E 1,381,653.206

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.

JOHN H. MEARS, JR. et al
 883/670
 ZONED M-2

PARCEL A-1
 16.79 ACRES
 MCE 152.00

PARCEL B-1

PARCEL B-2

PARCEL B-3

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark Levy 2/1/00
 DEVELOPER'S SIGNATURE DATE
 MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
 DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. Jacob Hikmat 2/2/00
 ENGINEER'S SIGNATURE DATE
 R. JACOB HIKMAT
 ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Clayton Simmons 2-16-00
 USDA-NATURAL RESOURCES CONSERVATION SERVICE
 DATE

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

John Robertson 2-16-00
 HOWARD SCD
 DATE

DEP FILE NOS.
 WP-00-23
 F-00-27
 WP-00-28
 F-00-29

CSX RAILROAD
 (FORMERLY BALTIMORE & OHIO RAILROAD)
 ANNE ARUNDEL COUNTY

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0206 Fax (301) 821-5521 Wash. (410) 997-0208 Fax



engineering	SJD				
illustration	SJD				
approval					
project	98001	GWS, A	MOVE 8"X8" TEE & 8" VALVE AT STA. 4+26.50 TO STA. 6+35 AND ADD 8"X6" TEE & 6" VALVE AT STA. 4+60	5/26/00	
date	FEB 2000	BY	NO.	REVISION	STA 4+60
				DATE	

SEWER PLAN

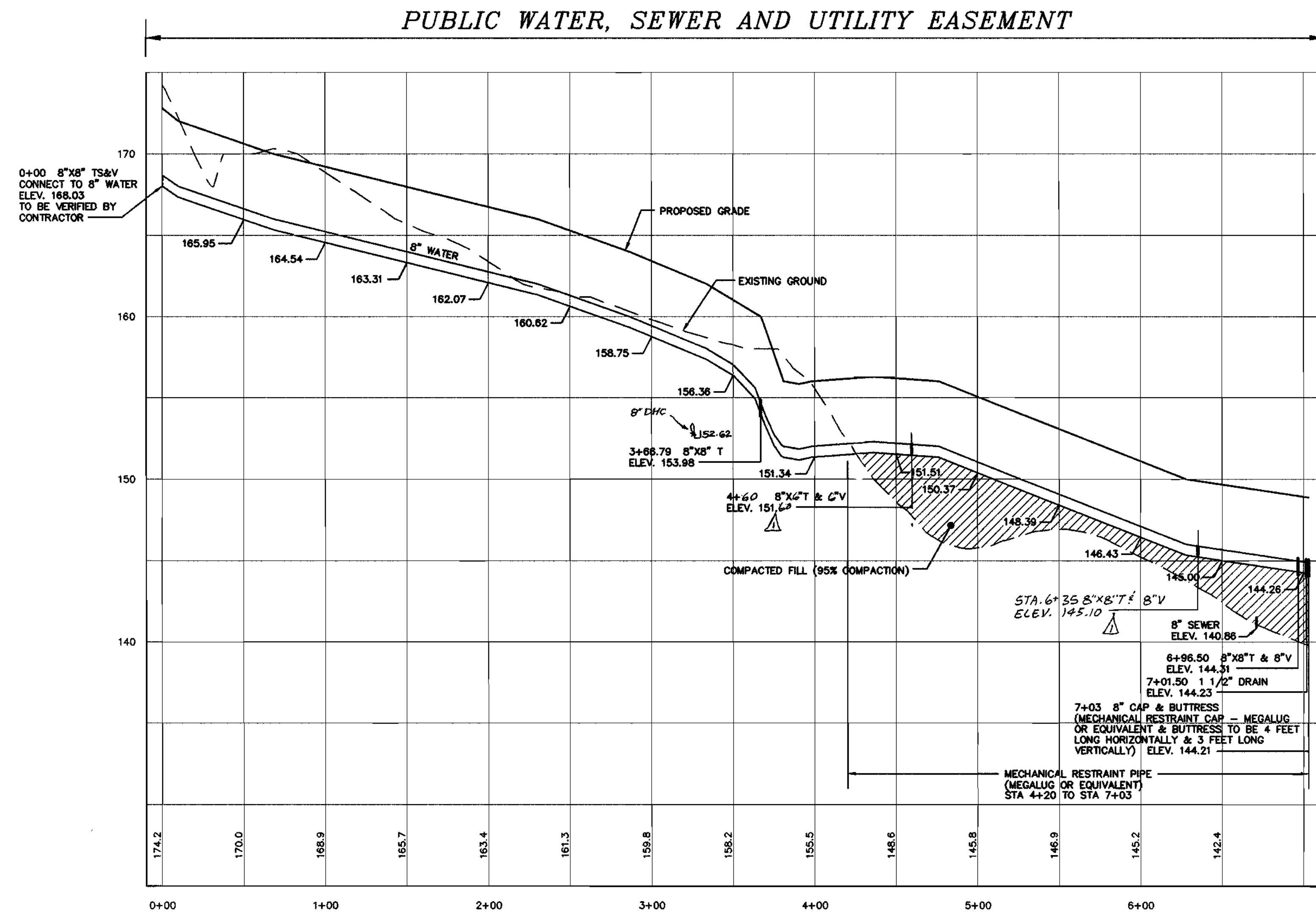
HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

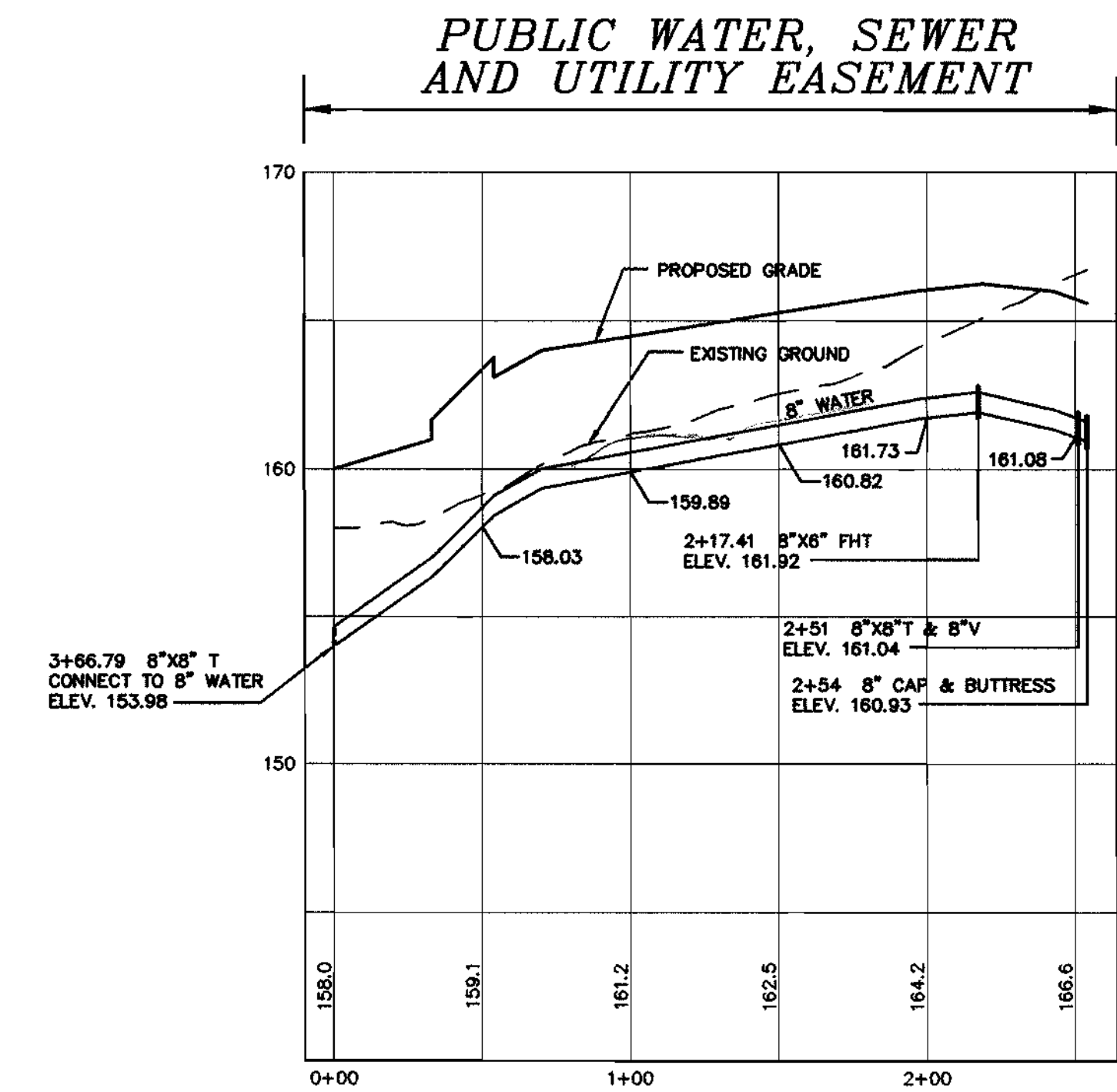
scale
 1" = 60'

2 of 9

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WATER MAIN FROM 8"X8" TS&V TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'



WATER MAIN FROM 8"X8" T TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

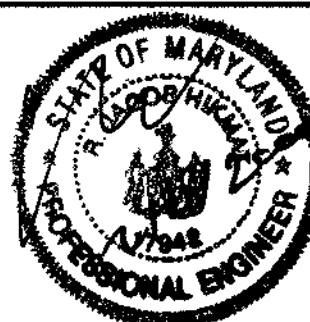
HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 991-0296 Cell: (301) 621-5521 Wash. (410) 991-0298 Fax.



engineering	SJD				
illustration	SJD				
approval					
project	98001	GWS	△	MOVE 8"X8" TEE & 8" VALVE AT STA. 7+26.50 TO STA. 6+35 AND ADD 8"X8" TEE & 6" VALVE AT STA. 9+60	5/24/00
date	FEB 2000	BY	NO.	REVISION	DATE

WATER PROFILE

600' SCALE MAP NO. 43 BLOCK NO. 6

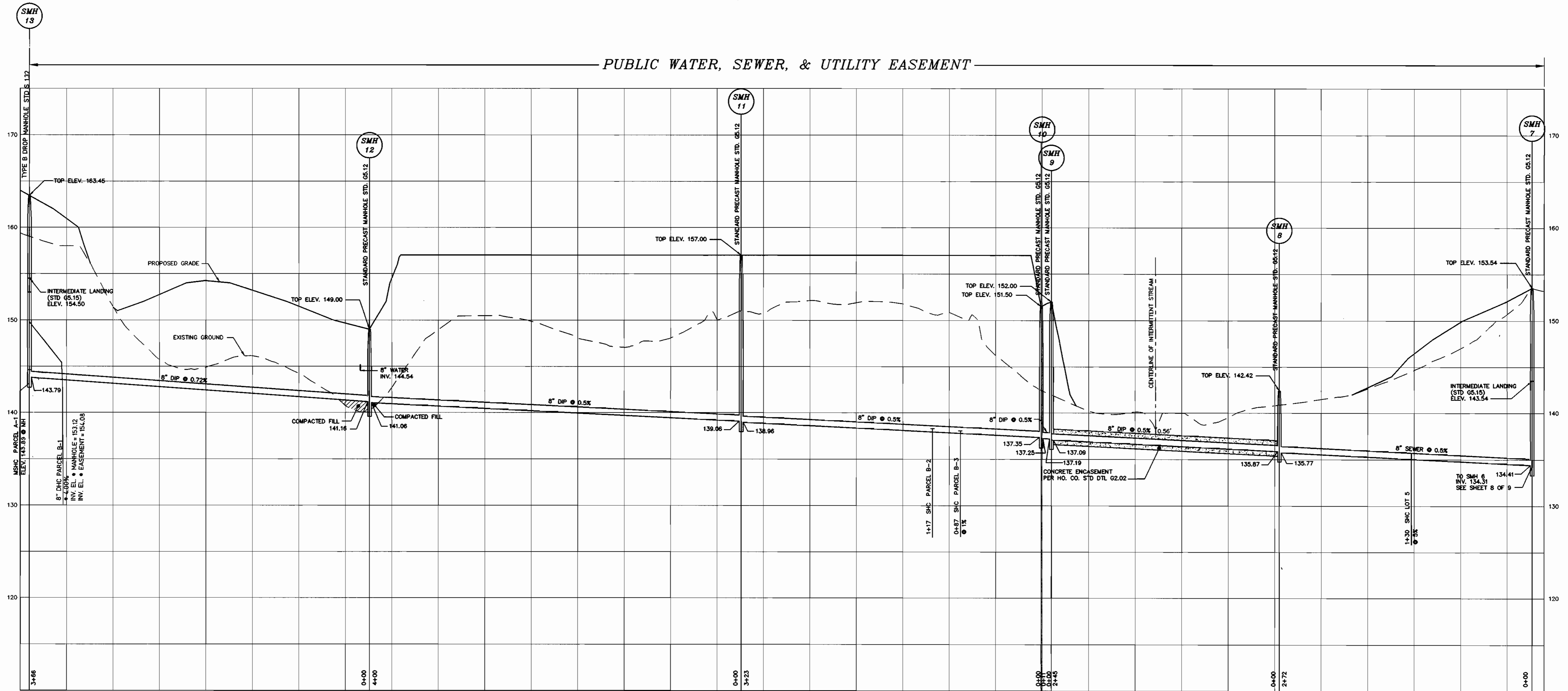
HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale AS SHOWN

H:\98001\DWG\FINAL\WES\001-HMS-50079.dwg 2-11-00 1:08:49 pm EST

PUBLIC WATER, SEWER, & UTILITY EASEMENT



SEWER PROFILE FROM SMH 13 TO SMH 7

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

OWNER

DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

**MILDENBERG,
BOENDER & ASSOC., INC.**
Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0290 Fax.



engineering	SJD				
illustration	SJD				
approval					
project	98001	M.T.	2	REVISED MANHOLE TYPE & DHC TO PARCEL B-1	5/9/00
date	FEB 2000	BY	NO.	REVISION	DATE

SEWER PROFILE

HOWARD BUSINESS PARK,
PARCELS A-1 & B-1 THRU B-4
CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
AS SHOWN
7 of 9

H:\98001\DWG\DWG\98001-001-W&S-7069.dwg 2-11-00 4:04:16 pm EST

Robert Bennett 2-24-00
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 3/7/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION I DATE

600' SCALE MAP NO. 43 BLOCK NO. 6

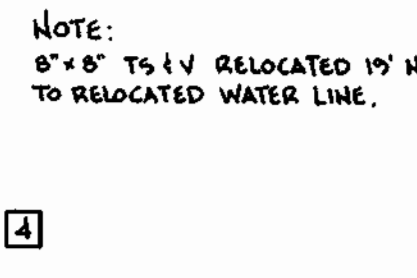
BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80' ROW - PUBLIC ROAD

PARCEL A-1
 16.79 ACRES
 MCE 152.00

JOHN H. MEARS, JR. et al
 883/670
 ZONED M-2

WATER MAIN TABULATION CHART		WATER MAIN TABULATION CHART	
EASEMENT		EASEMENT	
NORTHING & EASTING	APPURTENANCE	NORTHING & EASTING	APPURTENANCE
N 548,692.762 E 1,381,984.472 N 548,690.328 E 1,381,920.637	8" x 8" T 8" V	N 549,067.473 E 1,381,403.237 N 548,853.895 E 1,381,701.431 N 548,855.521 E 1,381,702.596 N 549,030.639 E 1,381,828.041 N 549,029.474 E 1,381,829.667 N 549,025.591 E 1,381,835.090 N 549,057.944 E 1,381,847.601 N 549,059.109 E 1,381,845.975 N 549,060.383 E 1,381,849.348 N 548,819.123 E 1,381,749.977 N 548,820.746 E 1,381,751.140 N 548,661.887 E 1,381,969.469 N 548,663.512 E 1,381,970.633 N 548,656.536 E 1,381,971.786 N 548,658.101 E 1,381,974.753	8" x 8" TS&V 8" x 8" T 8" V 8" x 6" FHT 6" V FH 8" x 8" T 8" V 8" CAP & BUTTRESS 8" x 8" T 8" V 8" x 8" T 8" V 1 1/2" DRAIN 8" CAP & BUTTRESS

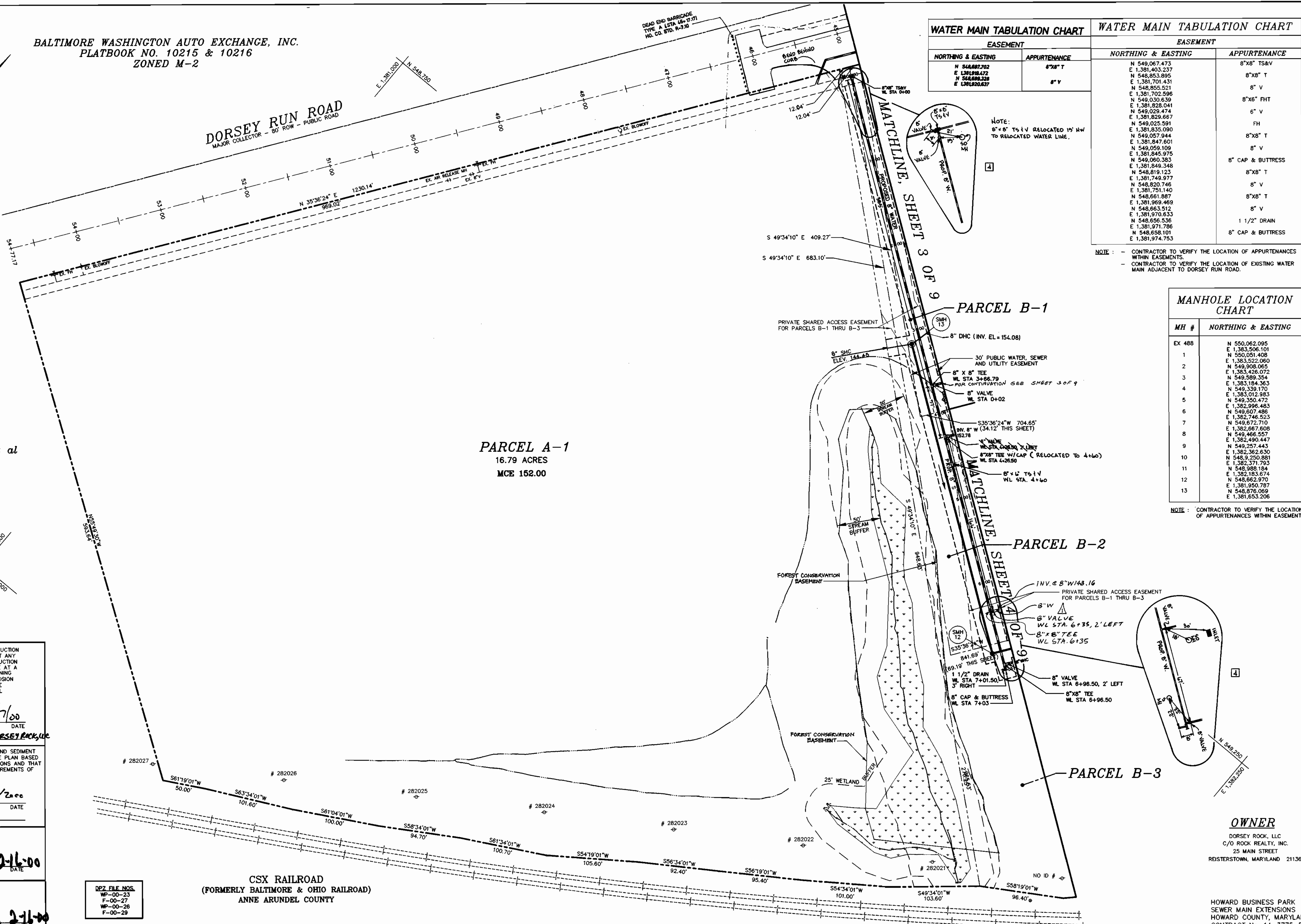


NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.
 - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER MAIN ADJACENT TO DORSEY RUN ROAD.

MANHOLE LOCATION CHART

MH #	NORTHING & EASTING
EX 488	N 550,062.095 E 1,383,506.101
1	N 550,051.408 E 1,383,522.060
2	N 549,908.065 E 1,383,426.072
3	N 549,589.354 E 1,383,184.363
4	N 549,339.170 E 1,383,012.983
5	N 549,350.472 E 1,382,996.483
6	N 549,607.486 E 1,382,746.523
7	N 549,672.710 E 1,382,667.608
8	N 549,466.557 E 1,382,490.447
9	N 549,257.443 E 1,382,362.630
10	N 548,925.881 E 1,382,371.793
11	N 548,988.184 E 1,382,183.674
12	N 548,862.970 E 1,381,950.787
13	N 548,876.069 E 1,381,653.206

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.



I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mack Levy 2/1/00
 DEVELOPER'S SIGNATURE DATE
 MACK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
 DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. Jacob Hikmat 2/2/00
 ENGINEER'S SIGNATURE DATE
 R. JACOB HIKMAT
 ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Paul Simpson 2-16-00
 DATE

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

John Robertson 2-16-00
 DATE

DPZ FILE NOS.
 WP-00-23
 F-00-27
 WP-00-28
 F-00-29

CSX RAILROAD
 (FORMERLY BALTIMORE & OHIO RAILROAD)
 ANNE ARUNDEL COUNTY

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert Deiner 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

John Robertson 3/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 302, Ellicott City, Maryland 21042
 (410) 997-0296 Fax: (301) 821-5521 Wash. (410) 997-0298 Fax

engineering	JMT	4	AS-BUILT	2/28/01
illustration	MBA	3	RELOCATE 8" x 8" TEE FROM STA 4+60 TO STA 4+26.50 AND TURNAROUND & REVISE INVERT AT EASEMENT LINE FOR 8" WATER @ STA 6+35	10/23/00
approval	M.T.	2	REVISED 8" DHC TO PARCEL B-1	6/9/00
project	GLWS	1	MOVE 8" x 8" TEE & 6" VALVE AT STA. 4+26.50 TO STA. 6+35 AND ADD 8" x 6" TEE & 6" VALVE AT STA. 4+60	5/26/00
date	FEB	2000	BY NO.	DATE

SEWER PLAN

HOWARD BUSINESS PARK,
 PARCELS A-1 & B-1 THRU B-4
 CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 1" = 50'
 2 of 9

H:\98001\DWG\FINAL\WSP00-1\M&S-2000.dwg 2-7-00 3:55:27 pm EST

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S SIGNATURE
MARK LEVY 2/7/00
 DATE

DEVELOPER'S NAME
MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

ENGINEER'S SIGNATURE
R. JACOB HIKMAT 2/7/2000
 DATE

ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

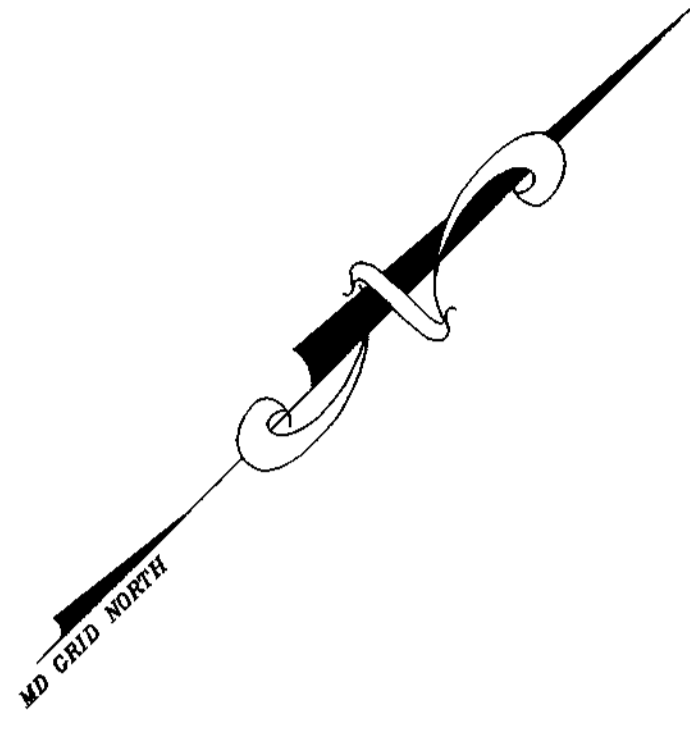
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

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

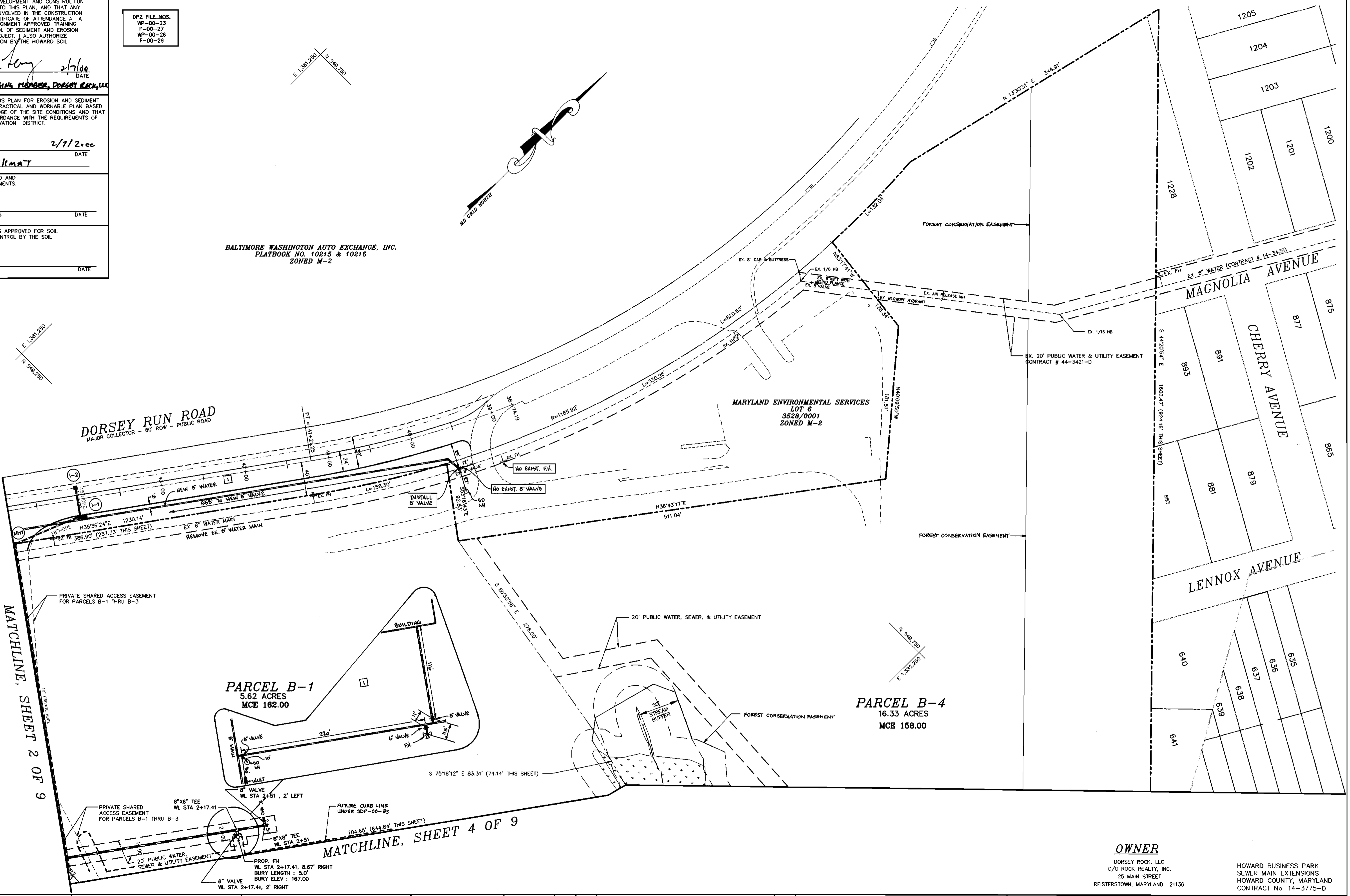
HOWARD SCD DATE

DEP FILE NOS.
 WP-00-23
 F-00-27
 WP-00-26
 F-00-29

E 1,391,250
 N 549,250



BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2



E 1,391,250
 N 549,250

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80' ROW - PUBLIC ROAD

MARYLAND ENVIRONMENTAL SERVICES
 LOT 6
 3528/0001
 ZONED M-2

PARCEL B-1
 5.62 ACRES
 MCE 162.00

PARCEL B-4
 16.33 ACRES
 MCE 158.00

MATCHLINE, SHEET 2 OF 9

MATCHLINE, SHEET 4 OF 9

OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0296 Fax



engineering	SJD				
illustration	SJD				
approval					
project	98001	JMT	1	AS-BUILT	2-26-00
date	FEB 2000	BY	NO.	REVISION	DATE

WATER PLAN

600' SCALE MAP NO. 43 BLOCK NO. 6

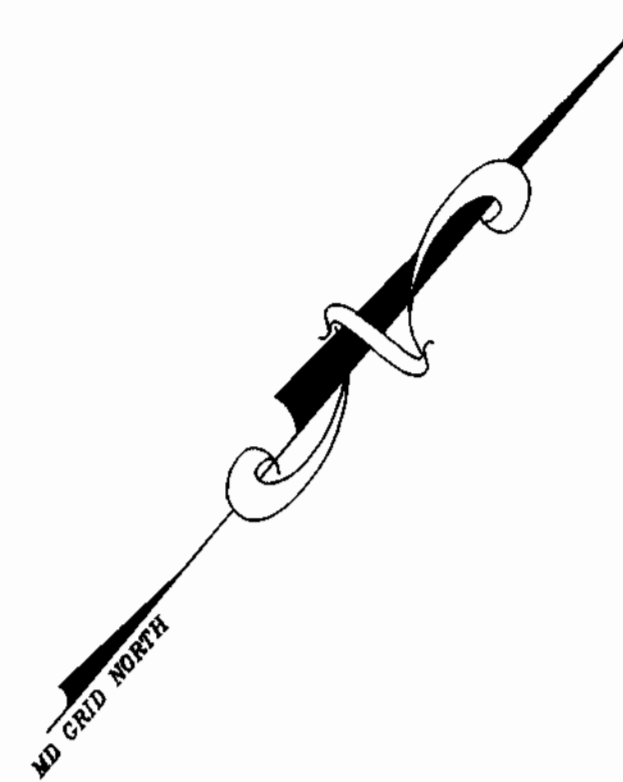
HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

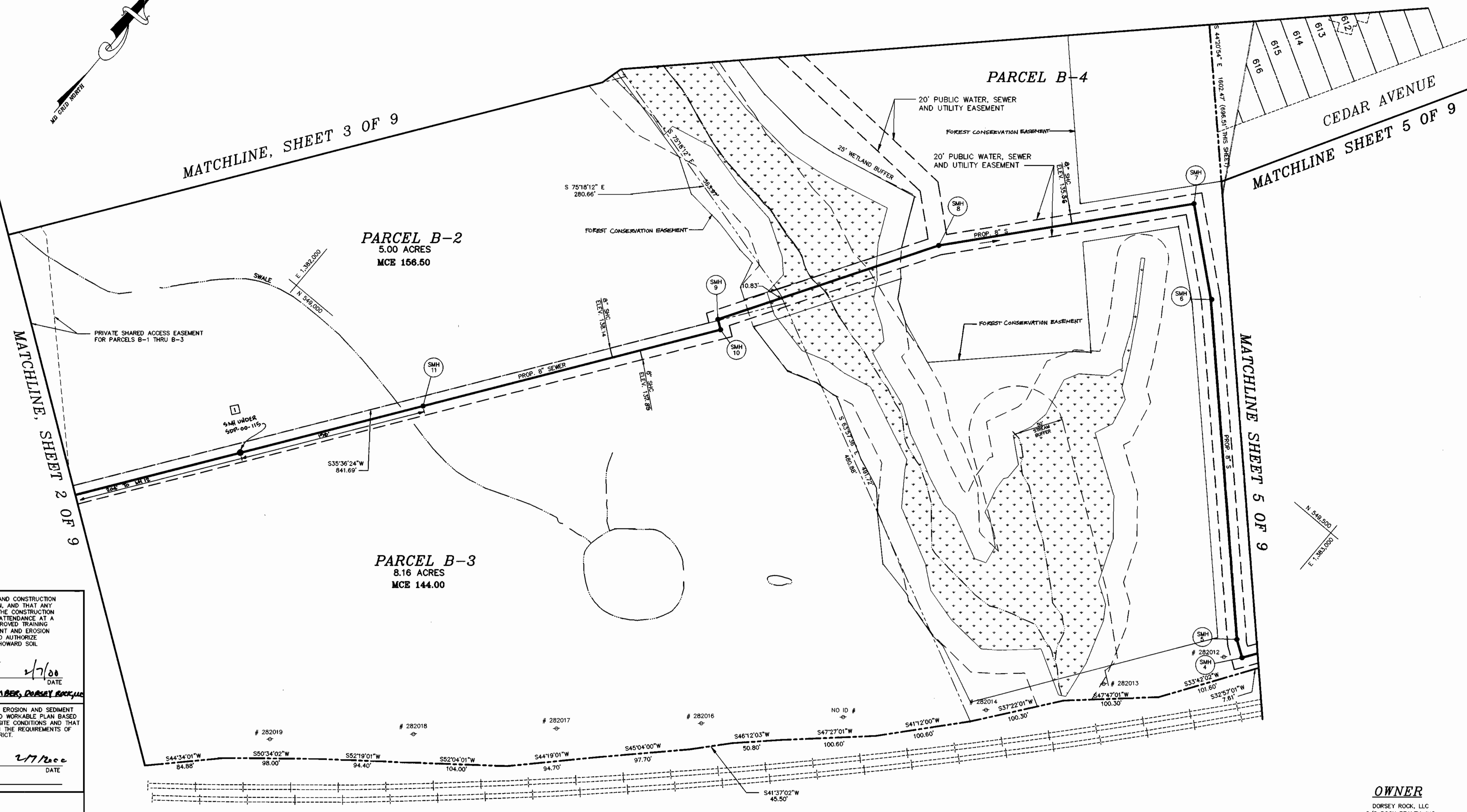
scale
 1" = 50'

3 of 9

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E. 1,380.00' N. 546.500'



I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark Levy 2/7/00
 DEVELOPER'S SIGNATURE DATE
 MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
 DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. Jacob Hikmat 2/7/00
 ENGINEER'S SIGNATURE DATE
 R. JACOB HIKMAT
 ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Deep Swinman 2-16-00
 SDA-NATURAL RESOURCES DATE
 CONSERVATION SERVICE

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

John White 2-16-00
 HOWARD SCD DATE

DPZ FILE NOS.
 WP-00-23
 F-00-27
 WP-00-26
 F-00-29

CSX RAILROAD
 (FORMERLY BALTIMORE & OHIO RAILROAD)
 ANNE ARUNDEL COUNTY

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. J. Bauman 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

John Bauman 3/2/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0296 Ball. (301) 821-5521 Wash. (410) 997-0298 Fax



engineering	SJD				
illustration	SJD				
approval					
project	98001	JMT	U	AS-BUILT	3-05-01
date	FEB 2000	BY	NO.	REVISION	DATE

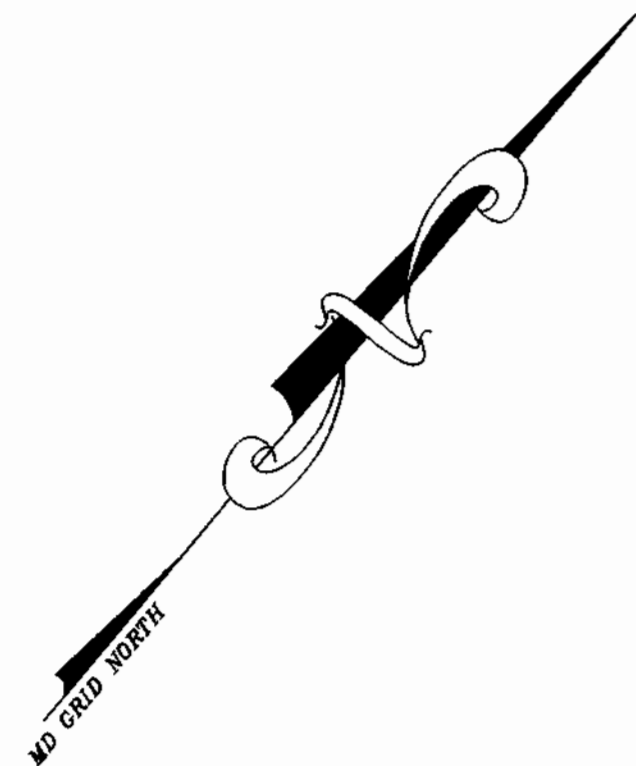
SEWER PLAN

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4
 CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

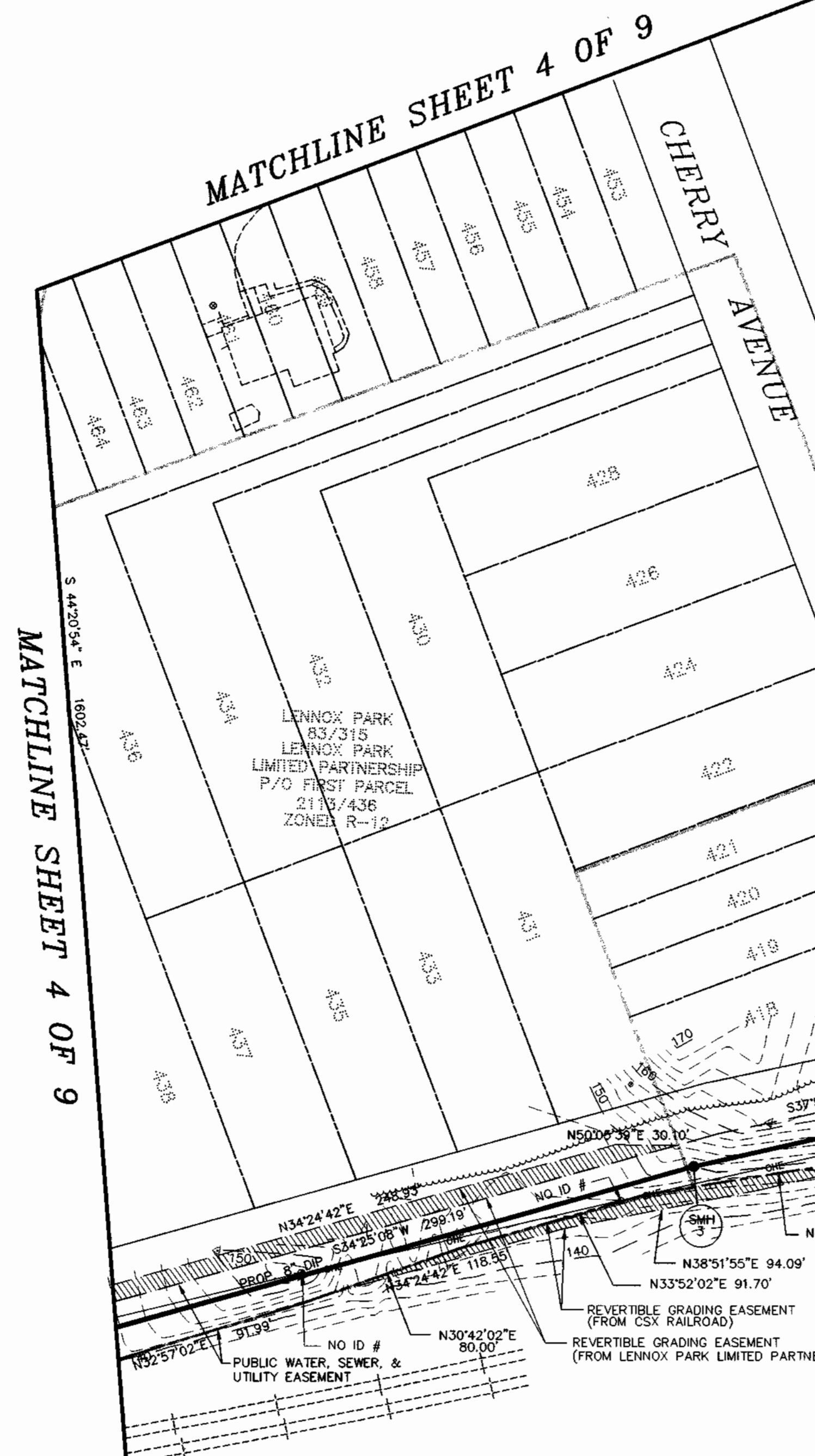
scale
 1" = 50'
 4 OF 9

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E 1,389,500
N 548,750

E 1,389,500
N 548,750



I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark Levy 2/1/00
DEVELOPER'S SIGNATURE DATE

MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. James Hinkley 2/17/2000
ENGINEER'S SIGNATURE DATE

R. JAMES HINKLEY
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Deepl Simmons 2-16-00
SOIL NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John P. Reuter 2-16-00
HOWARD SCD DATE

DPZ FILE NOS.
WP-00-23
F-00-27
WP-00-26
F-00-29

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0296 Fax



engineering	SJD				
illustration	SJD				
approval					
project	98001				
date	FEB 2000	BY	NO.	REVISION	DATE

SEWER PLAN
600' SCALE MAP NO. 43 BLOCK NO. 6

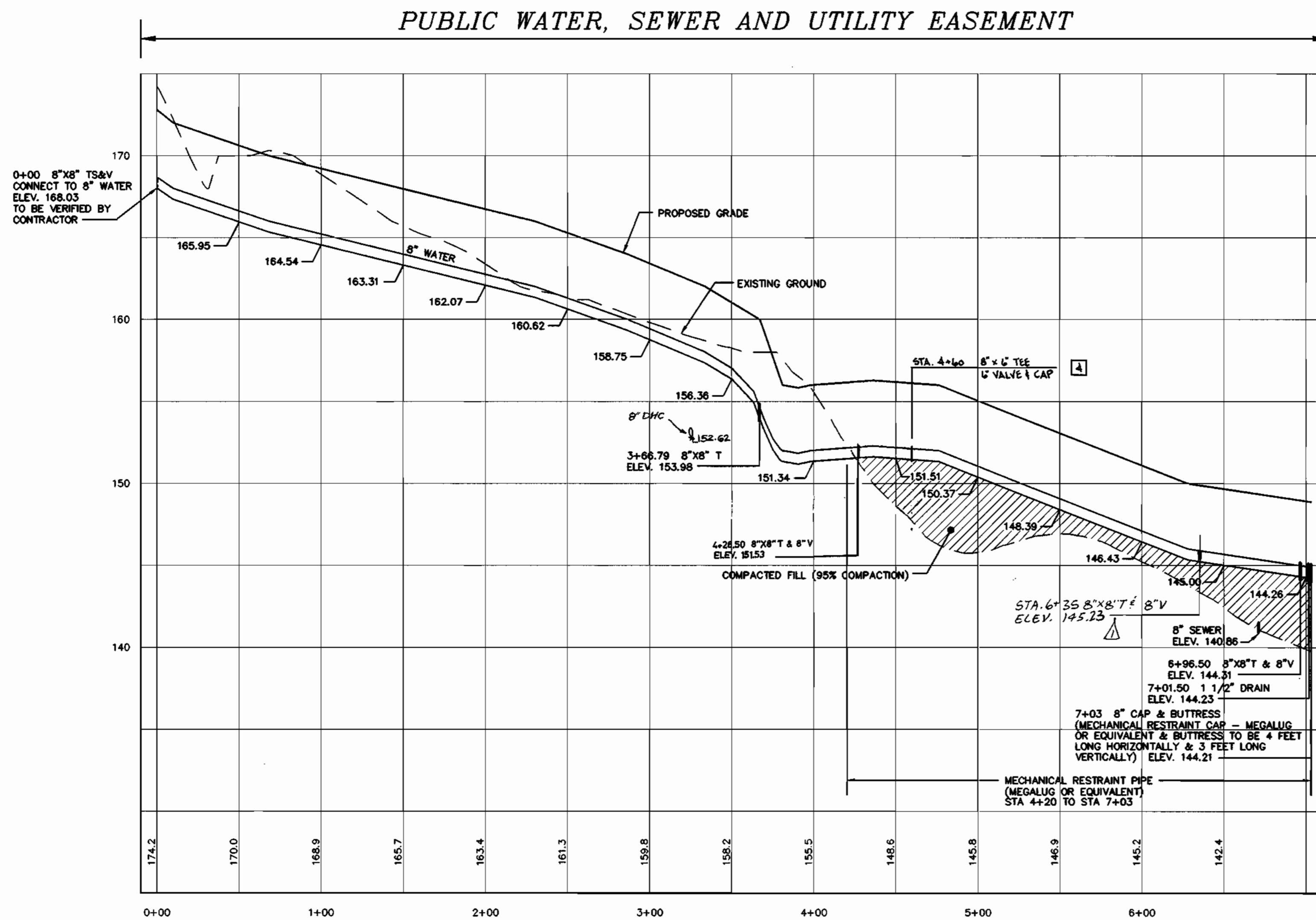
HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4
CONTRACT NO. 14-3775-D
TAX MAP 43 PARCEL 321
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
1" = 50'
5 of 9

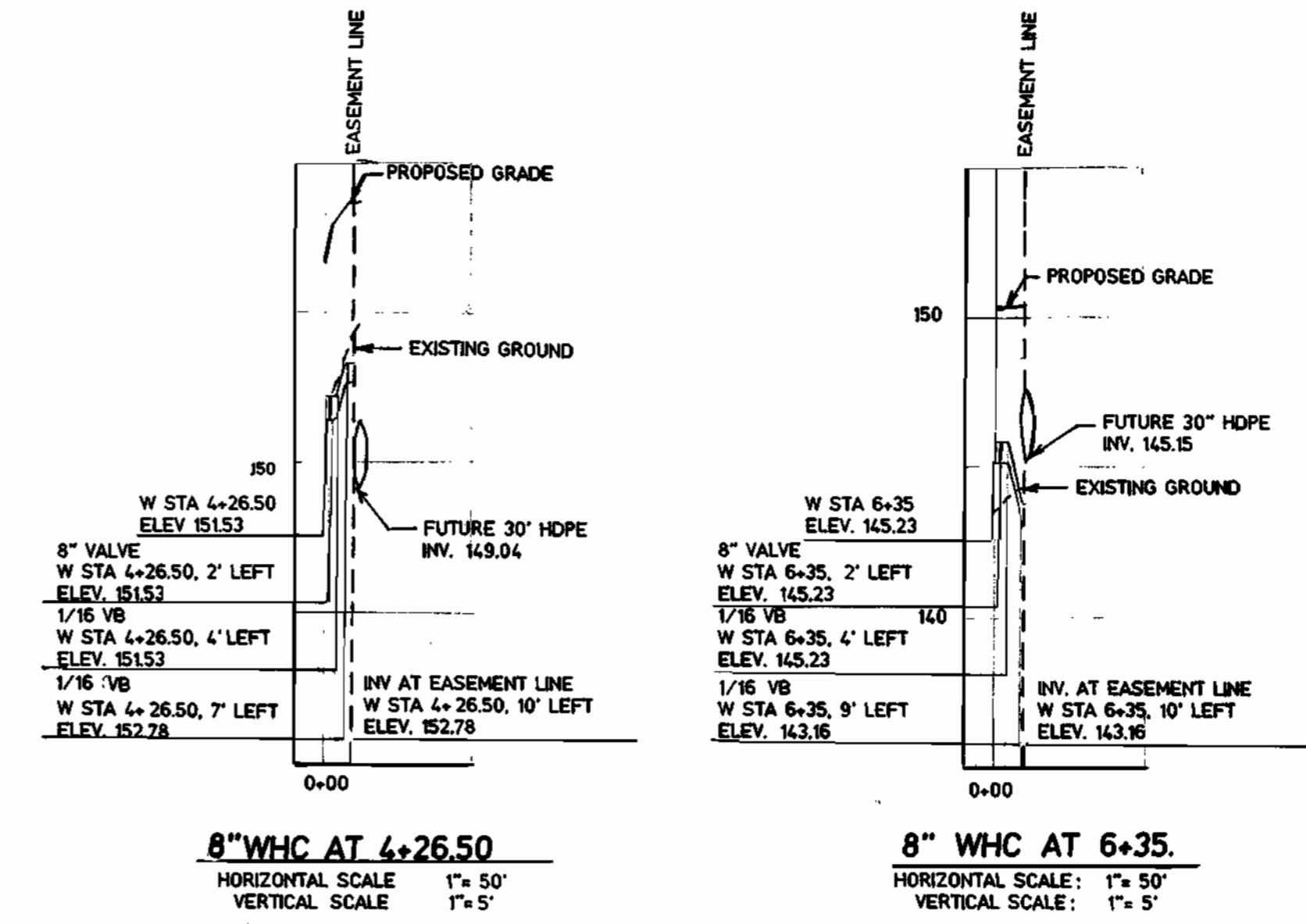
OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-3775-D

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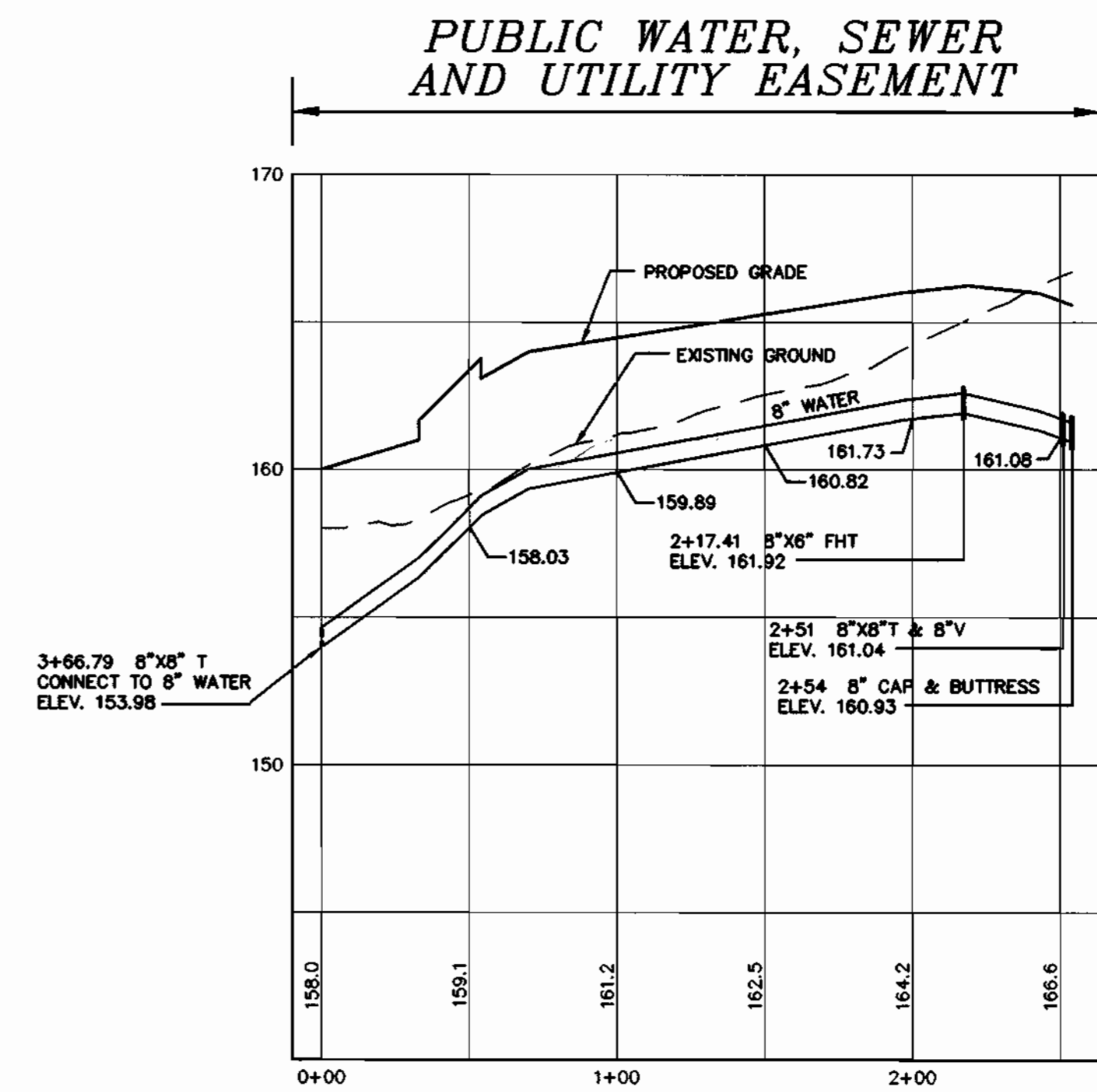


WATER MAIN FROM 8" X 8" TS&V TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'



8" W/C AT 4+26.50
 HORIZONTAL SCALE 1" = 50'
 VERTICAL SCALE 1" = 5'

8" W/C AT 6+35
 HORIZONTAL SCALE 1" = 50'
 VERTICAL SCALE 1" = 5'



WATER MAIN FROM 8" X 8" T TO 8" CAP & BUTTRESS
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

H:\VARD\DWG\FINAL\WAS\001-WAS-6093.dwg 2-11-00 1:08:49 pm EST

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert Benjamin 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 3/1/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dersey Hall Drive, Suite 202, Elkwood City, Maryland 21042
 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



engineering	SJD				
illustration	SJD	JMT	4	AS-BUILT	3-05-01
approval		MBA	3	RELOCATE 8" X 8" TEE FROM STA 4+60 TO STA 4+26.50 AND PROVIDE PROFILES FOR 8" W/Cs AT STA 4+26.50 AND STA 6+35	10/23/00
project	98001	GW3	Δ	MOVE 8" X 8" TEE & 8" VALVE AT STA 4+26.50 TO STA 6+35 AND ADD 8" X 8" TEE & 8" VALVE AT STA 4+60	5/26/00
date	FEB 2000	BY	NO.	REVISION	DATE

WATER PROFILE

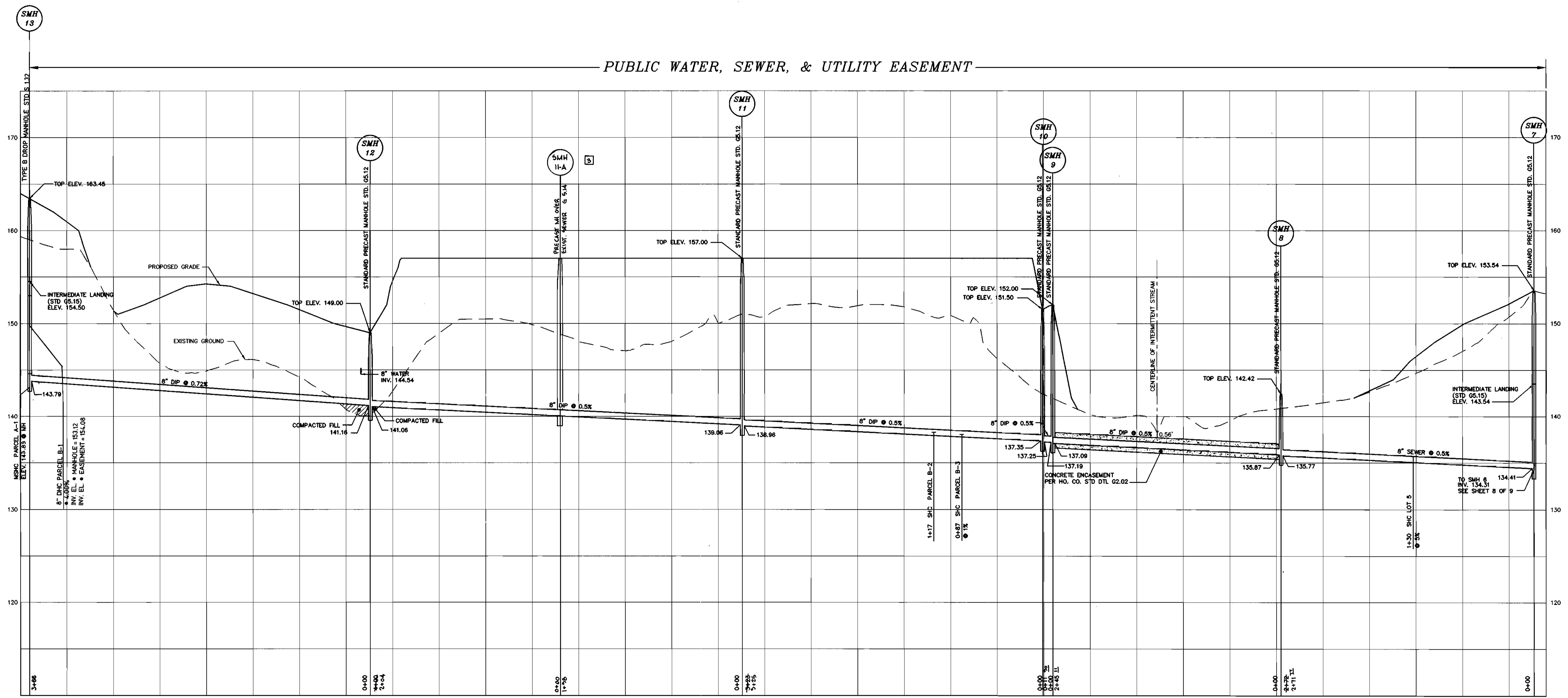
60' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4
 CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale AS SHOWN
 6 OF 9

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D



SEWER PROFILE FROM SMH 13 TO SMH 7

HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

OWNER

DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

**MILDENBERG,
 BOENDER & ASSOC., INC.**
 Engineers Planners Surveyors

5072 Dersey Hall Drive, Suite 202, Elkton City, Maryland 21042
 (410) 397-0296 Balt. (301) 621-5521 Wash. (410) 397-0288 Fax.



engineering	SJD				
illustration	SJD				
approval					
project	98001	JMT	3	A6-BUILT	3-05-01
date	FEB 2000	M.T.	2	REVISED MANHOLE TYPE & DHC TO PARCEL B-1	5/9/00
BY		NO.		REVISION	DATE

SEWER PROFILE

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK,
 PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 AS SHOWN

7 of 9

H:\98001\DWG\FINAL\WKS\001-WKS-70FS.dwg 2-11-00 4:04:16 pm EST

R. J. ...
 CHIEF, BUREAU OF UTILITIES 2-24-00 DATE

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 3/7/00 DATE

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:

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

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 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 WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES

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

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

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

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER 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 PER 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 OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF NAY CONSTRUCTION, (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- 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.
- 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.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS 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.
- 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.

- SITE ANALYSIS:**
TOTAL AREA OF SITE: 51.90 ACRES
AREA DISTURBED: 2.75 ACRES
AREA TO BE ROOFED OR PAVED: 0.15 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 2.59 ACRES
TOTAL CUT: N/A CU. YDS.
TOTAL FILL: N/A CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION: _____
- THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES MEASUREMENTS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - 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.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- 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.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - 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 COM-TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDEGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - 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 DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
 - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 - PH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
 - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - 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 HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

- TOPSOIL APPLICATION**
 - 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.
 - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.
 - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 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.
 - 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 MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

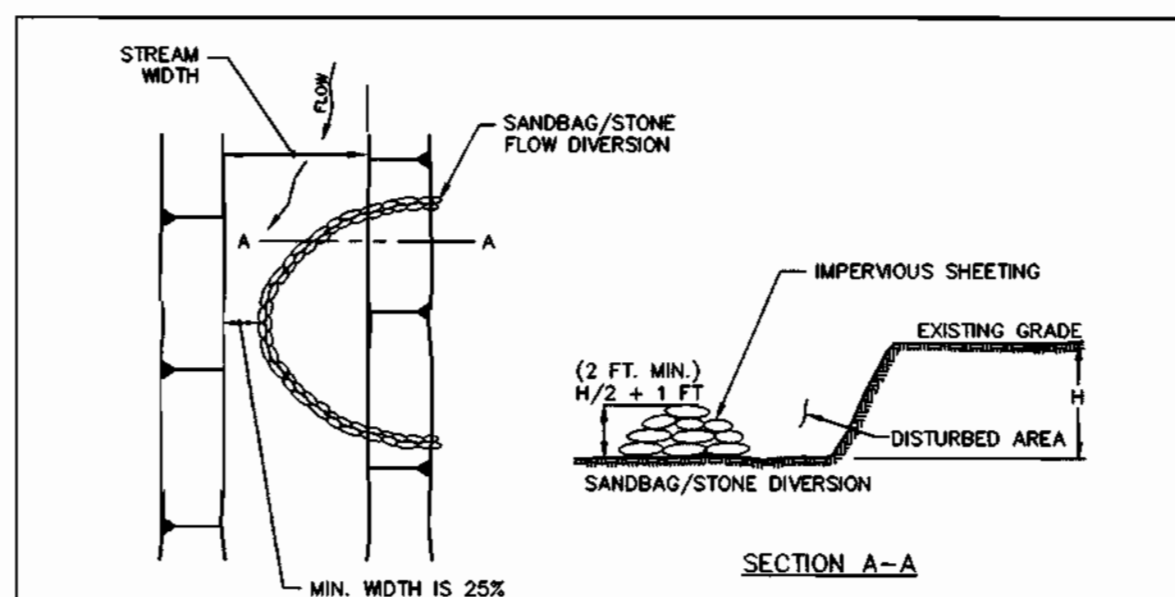
- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW.
 - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE COMPOSTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
 - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOROUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
 - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
 - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

SEQUENCE OF CONSTRUCTION

- OBTAIN THE REQUIRED GRADING PERMIT.
- CLEAR AND GRUB AREAS SURROUNDING SEDIMENT CONTROL FEATURES.
- CLEAR AND GRUB AS NECESSARY; ONLY AS REQUIRED FOR EXCAVATION AND INSTALLATION OF THE WATER AND SEWER MAINS. ONLY WITHIN THE DESIGNATED WATER, SEWER AND UTILITY EASEMENTS. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF UTILITY TRENCH IN AREAS OF EXISTING PAVEMENT, STABILIZE WITH STONE AGGREGATE UNTIL PERMANENT PAVING REPAIR CAN BE DONE.
- PLACE SILT FENCE AT DOWN STREAM LIMITS OF PREVIOUS DAYS CONSTRUCTION PRIOR TO COMMENCEMENT OF FUTURE EXCAVATION. SILT FENCE TO EXTEND ACROSS WIDTH OF DISTURBED AREA.
- CONSTRUCT STREAM CROSSING IN ACCORDANCE WITH DETAIL WPR 2.3 AS SHOWN ON THIS SHEET. PLACE RIP-RAP AS SHOWN ON DETAIL.
- STABILIZE, SEED & MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET.
- INSPECT ALL SEDIMENT CONTROL DEVICES DAILY AND AFTER EACH RAINFALL, REPAIR AS NECESSARY.
- WHEN ALL CONTRIBUTING AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN PERMANENTLY STABILIZED AND AFTER PERMISSION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.
- FOLLOWING INITIAL SOILS DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SLOPES GREATER THAN 3:1
 - 14 CALENDAR DAYS FOR ALL OTHER DISTURBED GRADED AREAS ON THE PROJECT SITE.

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.



I. DESCRIPTION
THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.

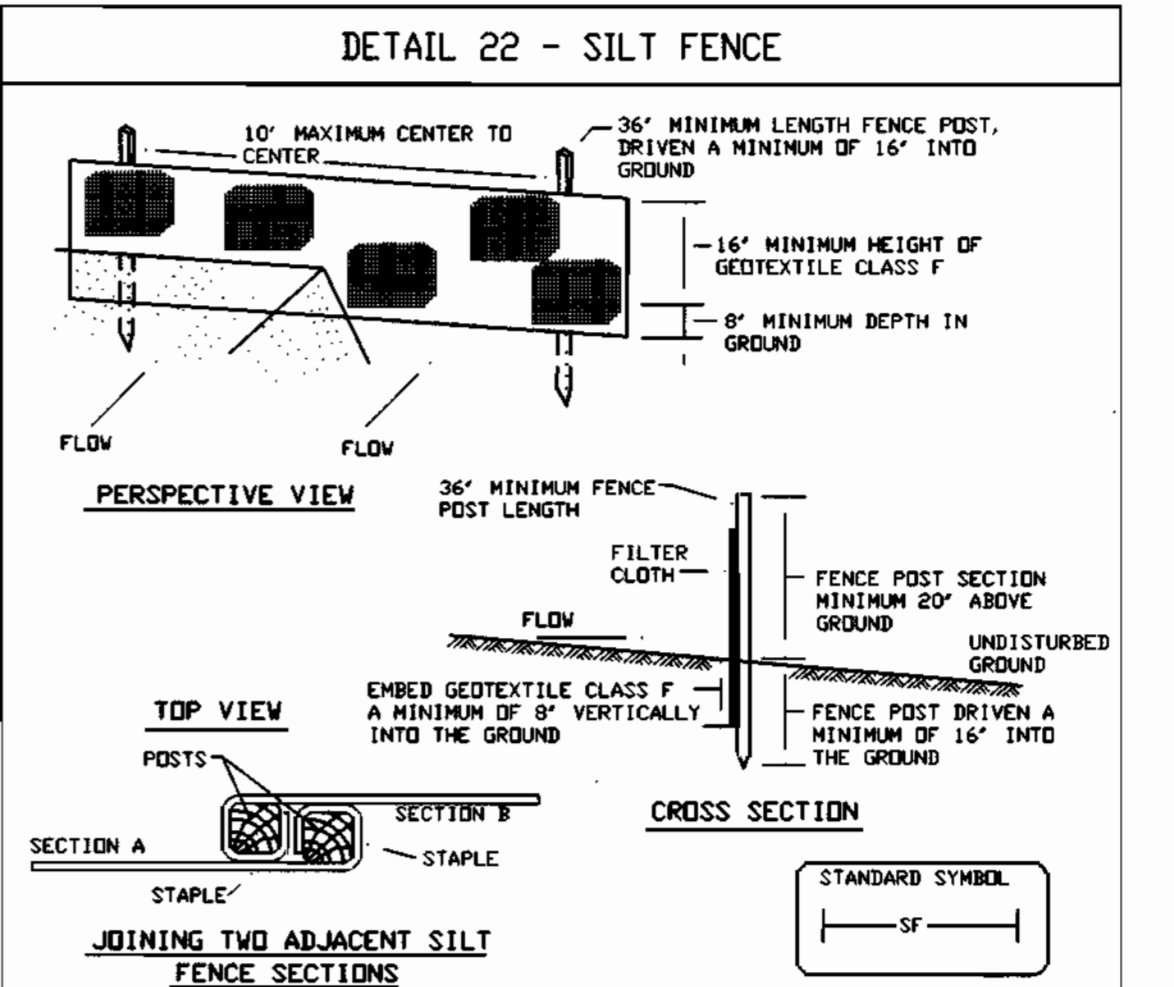
II. MATERIAL SPECIFICATIONS

- SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRAVIOLET RADIATION, TEARING AND PUNCTURE AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E. SAND, FINE GRAVEL, ETC.).
- STONE: STONE SHALL BE WASHED AND HAVE A MINIMUM DIAMETER OF 6 INCHES.
- SHEETING: SHEETING SHALL CONSIST OF POLYETHYLENE OR OTHER MATERIAL WHICH IS IMPERVIOUS AND RESISTANT TO PUNCTURE AND TEARING.

III. CONSTRUCTION REQUIREMENTS

- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
- THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
- THE HEIGHT OF THE DIVERSION STRUCTURE SHALL BE ONE HALF THE DISTANCE FROM STREAM BED TO STREAM BANK PLUS ONE FOOT, AS INDICATED ON THE CROSS SECTION VIEW.
- ALL EXCAVATED MATERIALS SHALL BE DISPOSED OF IN A SOD APPROVED DISPOSAL AREA OUTSIDE THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS BY THE MRA.
- ALL DEWATERING OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A DEWATERING BASIN PRIOR TO RE-ENTERING THE STREAM.
- SHEETING SHALL BE OVERLAPPED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST AN 18-INCH OVERLAP.
- SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

WATER RESOURCES ADMINISTRATION SANDBAG/STONE DIVERSION APPROVED ON _____ WFD 2.3
CHIEF, WATERWAY PERMITS



Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in. (min.)	Test: MSH 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSH 509
Flow Rate	0.3 gal. ft ² /minute (max.)	Test: MSH 382
Filtering Efficiency	75% (min.)	Test: MSH 382

- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - B - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - B - 3a	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mark Levy 2/16/00
DEVELOPER'S SIGNATURE DATE
MARK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. J. Coz 2/17/00
ENGINEER'S SIGNATURE DATE
R. J. Coz, HIKMAT
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Chief Simmons 2-16-00
DATE
NATURAL RESOURCES CONSERVATION SERVICE

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

John R. Blanton 2-16-00
DATE
HOWARD SCD

DEZ. FILE NOS.

WP-00-23
F-00-27
WP-00-28
F-00-29

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John Blanton 2-24-00
CHIEF, BUREAU OF UTILITIES DATE

John Blanton 3/1/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Elkridge City, Maryland 21042
(410) 997-0296 Fax (301) 621-5521 Wash. (410) 997-0296 Fax



engineering SA					
illustration SA/SJD					
approval					
project 98001					
date FEB 2000	BY NO.		REVISION	DATE	600' SCALE MAP NO. 43 BLOCK NO. 6

SEDIMENT CONTROL NOTES & DETAILS

OWNER
DORSEY ROCK, LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-3775-D

scale NOT TO SCALE

9 OF 9

BALTIMORE WASHINGTON AUTO EXCHANGE, INC.
 PLATBOOK NO. 10215 & 10216
 ZONED M-2

DORSEY RUN ROAD
 MAJOR COLLECTOR - 80' ROW - PUBLIC ROAD

DEAD END BARRICADE
 TYPE A (STA 48+25)
 HO. CO. STD. R-7.10

WATER MAIN TABULATION CHART

EASEMENT	
NORTHING & EASTING	APPURTENANCE
N 549,067.473	8"X8" TS&V
E 1,381,403.237	8"X8" T
N 548,853.895	8" V
E 1,381,701.431	8" V
N 548,855.521	8"X6" FHT
E 1,381,702.596	6" V
N 549,030.639	6" V
E 1,381,828.041	FH
N 549,028.474	8"X8" T
E 1,381,829.667	8" V
N 549,025.591	8" CAP & BUTRESS
E 1,381,835.090	8"X8" T
N 549,057.944	8" V
E 1,381,847.601	8"X8" T
N 549,059.109	8" V
E 1,381,845.975	8" CAP & BUTRESS
N 549,060.383	8"X8" T
E 1,381,849.348	8" V
N 548,819.123	8"X8" T
E 1,381,749.977	8" V
N 548,820.746	8" V
E 1,381,751.140	8"X8" T
N 548,661.867	8" V
E 1,381,969.469	8" V
N 548,663.512	1 1/2" DRAIN
E 1,381,970.633	8" CAP & BUTRESS
N 548,656.536	
E 1,381,971.786	
N 548,658.101	
E 1,381,974.753	

NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.
 - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER MAIN ADJACENT TO DORSEY RUN ROAD.

MANHOLE LOCATION CHART

MH #	NORTHING & EASTING
EX 488	N 550,062.095
1	E 1,383,506.101
	N 550,051.408
2	E 1,383,522.060
	N 549,308.065
3	E 1,383,426.072
	N 549,589.354
4	E 1,383,184.363
	N 549,339.170
5	E 1,383,012.983
	N 549,350.472
6	E 1,382,996.483
	N 549,607.486
7	E 1,382,746.523
	N 549,672.710
8	E 1,382,667.608
	N 549,466.557
9	E 1,382,490.447
	N 549,257.443
10	E 1,382,362.630
	N 548,925.881
11	E 1,382,371.783
	N 548,988.184
12	E 1,382,183.674
	N 548,662.970
13	E 1,381,950.787
	N 548,876.069
	E 1,381,653.206

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.

JOHN H. MEARS, JR. et al
 883/670
 ZONED M-2

PARCEL A-1
 16.79 ACRES
 MCE 152.00

PARCEL B-1

PARCEL B-2

PARCEL B-3

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mack Levy 2/1/00
 DEVELOPER'S SIGNATURE DATE
 MACK LEVY, MANAGING MEMBER, DORSEY ROCK, LLC
 DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

R. Jacob Hikmat 2/2000
 ENGINEER'S SIGNATURE DATE
 R. JACOB HIKMAT
 ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Clayton Simpson 2-16-00
 USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

John Holbertson 2-16-00
 HOWARD SCD

DPZ FILE NOS.
 WP-00-23
 F-00-27
 WP-00-28
 F-00-28

CSX RAILROAD
 (FORMERLY BALTIMORE & OHIO RAILROAD)
 ANNE ARUNDEL COUNTY

OWNER
 DORSEY ROCK, LLC
 C/O ROCK REALTY, INC.
 25 MAIN STREET
 REISTERSTOWN, MARYLAND 21136

HOWARD BUSINESS PARK
 SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT No. 14-3775-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert D. Berman 2-24-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

John Holbertson 3/7/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION I DATE

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0286 Balt. (301) 621-5521 Wash. (410) 997-0286 Pac.

engineering	SJD				
illustration	SJD				
approval					
project	98001	M.T.	2	REVISED 8" DHC TO PARCEL B-1	6/9/00
date	FEB 2000	BY	NO.	MOVE 8"X8" TEE & 8" VALVE AT STA. 4+26.50 TO STA. 6+35 AND ADD 8"X6" TEE & 6" VALVE AT STA. 4+60	5/26/00
				REVISION	STA. 4+60
					DATE

SEWER PLAN

600' SCALE MAP NO. 43 BLOCK NO. 6

HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4

CONTRACT NO. 14-3775-D
 TAX MAP 43 PARCEL 321
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 1" = 60'
 2 OF 9

H:\98001\DWG\FINAL\WSS\001-WSS-2075.dwg 2-7-00 3:55:27 pm EST

