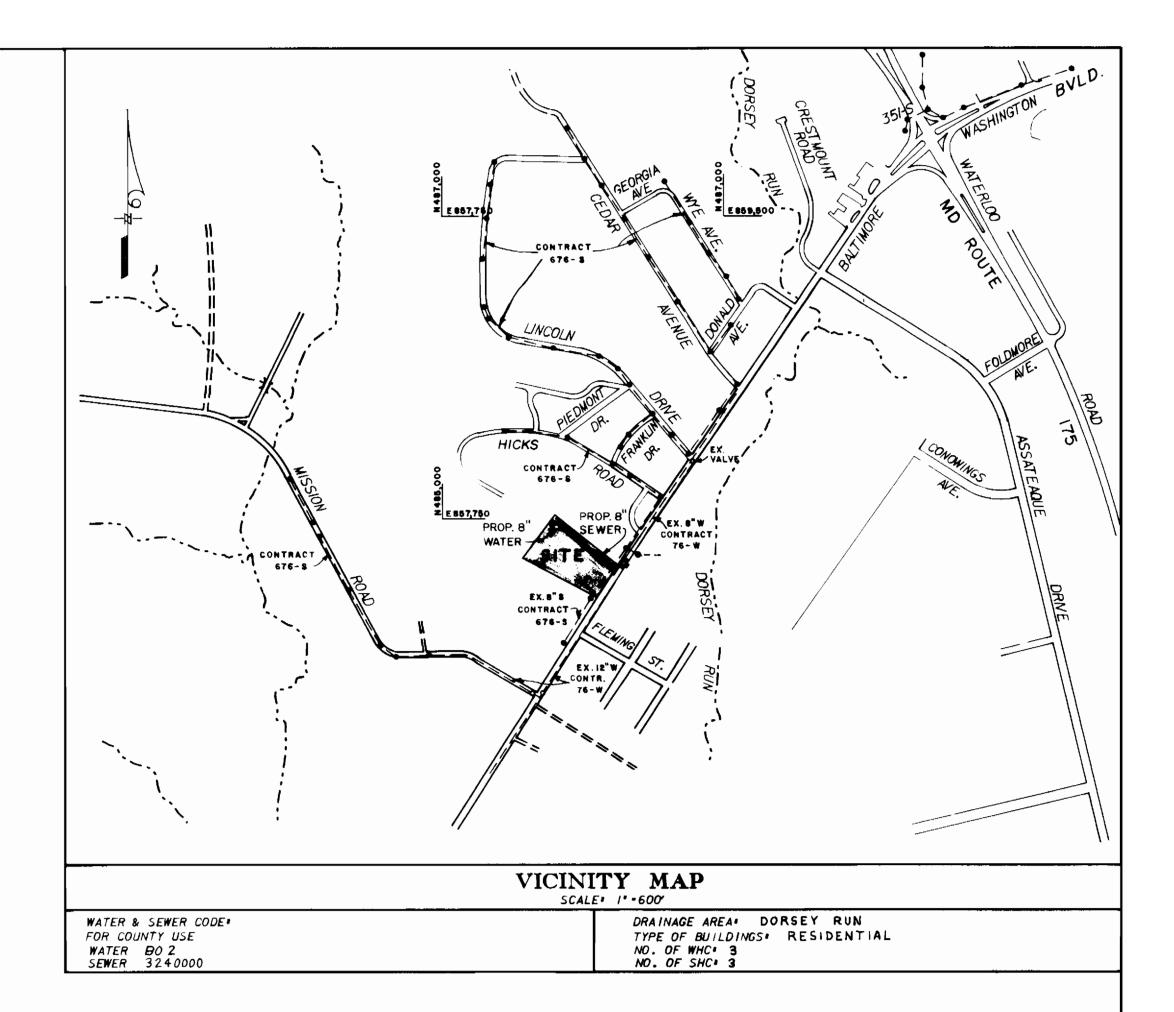
GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY MINIMUM OF 61.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV. ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF
- CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS
 - STATE HIGHWAY ADMINISTRATION 531-5533 BALTIMORE GAS & ELECTRIC CO. -BALTIMORE GAS & ELECTRIC CO. -
 - CONTRACTOR SERVICE 850-4620 UNDERGROUND DAMAGE CONTROL 859-9004 TROUBLE SHOOTING 298-9040

1-800-257-7777

- BALTIMORE GAS & ELECTRIC CO. -MISS UTILITY
- COLONIAL PIPELINE CO. 795-1390 BUREAU OF UTILITIES, 313*-* 4900 HOWARD COUNTY DEPARTMENT
- OF PUBLIC WORKS TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR
- DAMAGED BY THE CONTRACTOR. 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL WATER MAIN TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 12. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 42' COVER UNLESS OTHERWISE
- 13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 15. FIRE HYDRANTS SHALL, BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOILS AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER 17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS
- OTHERWISE NOTED. EXTEND PIPE AS NECESSARY TO INSTALL PLUG FOR BLOCKING, WHERE WATER MAINS END
- 19. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 20. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF
- 21. ALL MANHOLES SHALL BE 4' =0" INSIDE DIAMETER UNLESS OTHERWISE NOTED. 22. ALL SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.
- 23. THE LENGTH OF OPEN TRENCH IS TO BE KEPT TO A MAXIMUM OF ONE PIPE LENGTH WHEN POSSIBLE.

WATER & SEWER MAIN DEPARTMENT OF PUBLIC WORKS CONTRACT NO. 24-3000 CAPITAL PROJECT W-8167



		QU	ANTITIES	
ITEM		ESTIM ATED	AS-BUILT	MATERIAL / SUPPLIER
8" WATER	L.F.	743	743	GRIFFIN PIPE PRODUCT
8" SEWER	L.F.	432	432	J.M MFG. CORP.
SAN. SEWER MH	EA.	4	4	ATLANTIC CONCRETE PRO
FIRE HYDRANT	EA.	_	1	U, S. PIPE
8' x 8' T	EA.	_	1	GRIFFIN PIPE PRODUCTS
8" × 6" T	EA	l l	1	er e
8" - 1/8 BEND	EA.	3	3	11 m
8" - 1/16 BEND	EA.	1	1	., .,
8" - 1/32 BEND	EA.	-	1	71 /r A.1
8" VALVE	E.A.	3	3	MUELLER CO
SLEEVE & SPACER	EA.	•	1	GRIFFIN PIPE PRODUCTS
8" Plug	EA.	2	2	11 p. C.
3/4 " W HC	L.F.	47	63	HOWELL METALS
4" SHC	L.F.	50	0 5	J-M MFG. CORP.
AIR RELEASE	EA.			APCO
6" F.H. VALYE	EA.	/	7	MUELLAR CO.

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED OF THE STANDARD SPECIFICATION, AND

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS

SITE PLANS

HOWARD COUNTY, MARYLAND

GREENHORNE & O'MARA, INC. 113 WEST ROAD, SUITE 208 BALTIMORE, MD. 21204 PHONE (301) 296-4100

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS-SURVEYORS-PHOTOGRAMMETRISTS

Section 6	a and a second
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Contract State	Carrier.

DES: KRS	_	
DRN: KRS		
CHK: DSS		
DATE: APRIL, 1990	BY	

	TITLE CHEET
	TITLE SH EET
	 PLAN FOR WATER MAIN
	 AND CEWED EVELON
	 AND SEWER EXTENSION

REVISIONS

BLOCK NO. 14

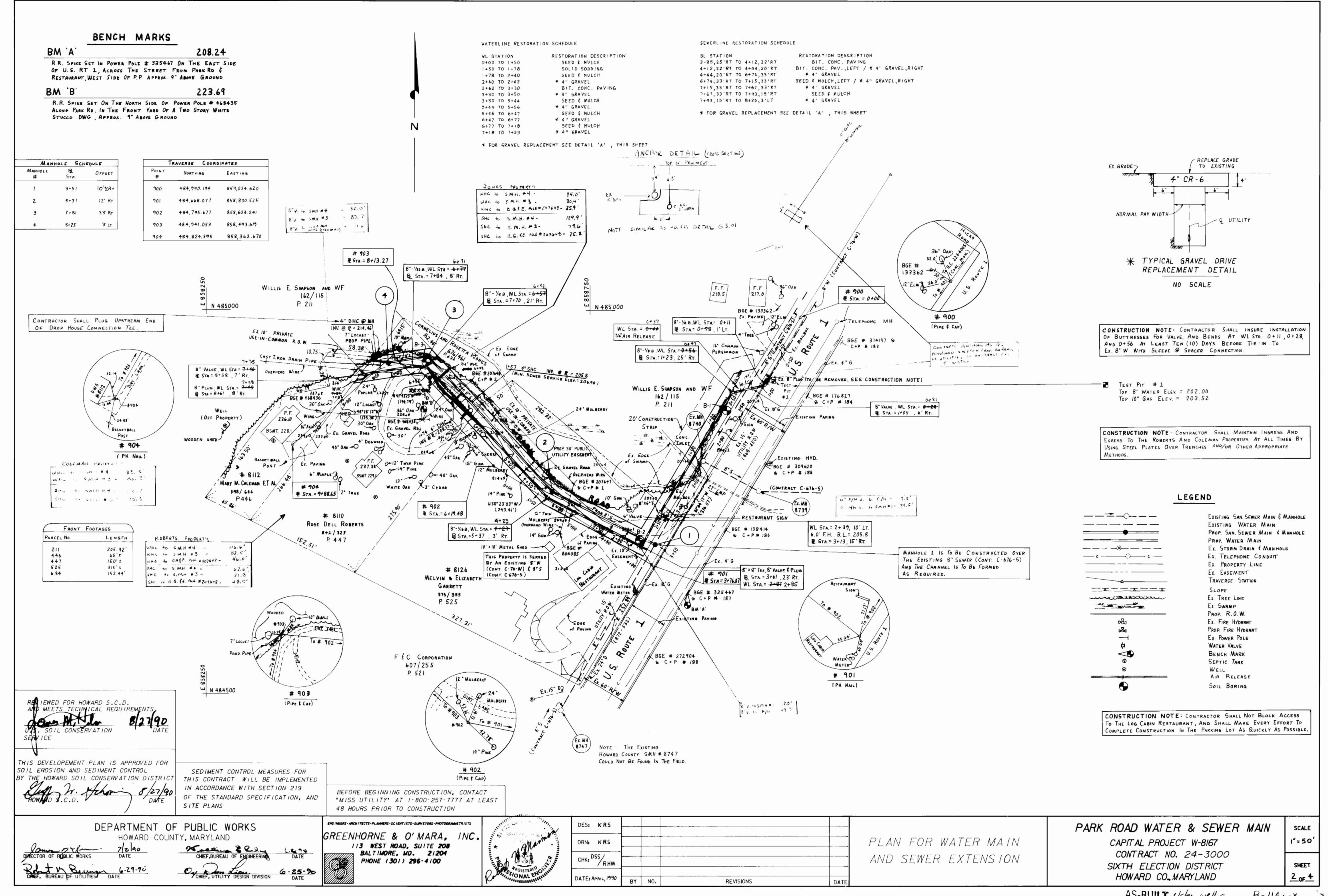
DATE 600' SCALE MAP NO. 43

PARK ROAD WATER & SEWER MAIN

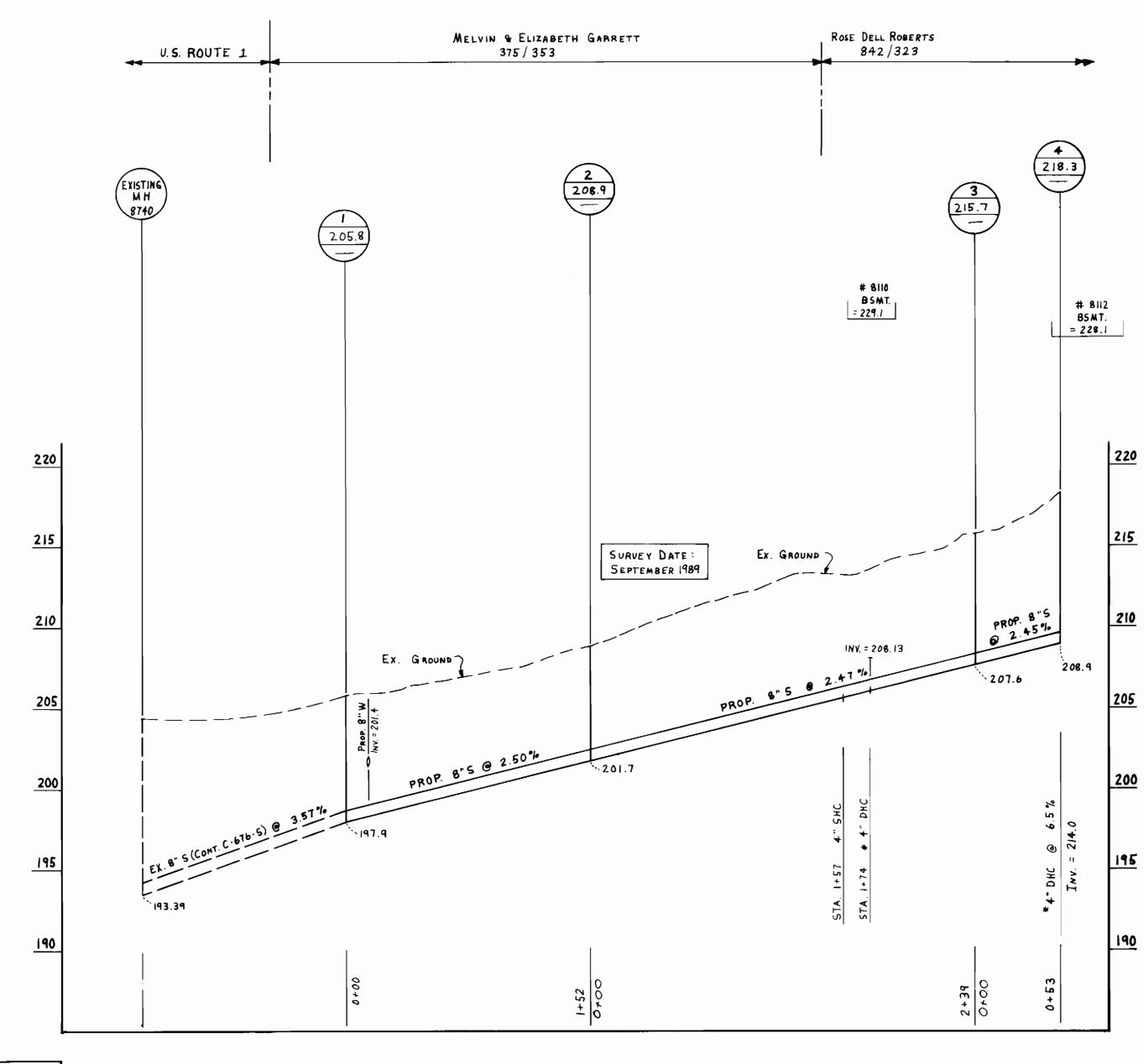
CAPITAL PROJECT W-8167 CONTRACT NO. 24-3000 SIXTH ELECTION DISTRICT HOWARD CO. MARYLAND

SHOWN SHEET

AS-BUILT 6/5/92 WD HO



* DROP HOUSE CONNECTION , TYPE 'A'
H.C. D. P. W. STD. 52.12



PROFILE SCALE:

HORIZ: 1" = 50'

VERT: 1" = 5'

REVIAWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION DATE
SERVICE

THIS DEVELOPEMENT PLAN IS APPROVED FOR

SOIL EROSION AND SEDIMENT CONTROL

0+00 201.25

SEDIMENT CONTROL MEASURES FOR
THIS CONTRACT WILL BE IMPLEMENTED
IN ACCORDANCE WITH SECTION 219
OF THE STANDARD SPECIFICATION, AND
SITE PLANS

STA. 2+85 8"×8"TEE \$ 8" VALVE INV. = 201.5

> 2+50 200.5

SURVEY DATE: SEPTEMBER 1989

201.6

`2+78

201.4

--- 3+50

202.2

BEFORE BEGINNING CONSTRUCTION, CONTACT
"MISS UTILITY" AT 1-800-257-7777 AT LEAST
48 HOURS PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

U.S. ROUTE 1

TEST PIT # 1

TOP 8" WATER ELEV. = 202.00

TOP 10" GAS ELEV. = 203.52

0+21 STA. 8128 8" VALVE INV. = 201.0

STA. 41 8" - 1/8 BEND

201.2

0+37 ### (S) 34 AIR RELEASE

201.2

201.1

199.9

W. S. ELEV. = 201.4

196.7

STA. 2+39 PROP. FIRE HYD. \$\frac{6"Valve W/8"x 6" TEE}{INV. = 200.2}

Ex. GROUND

STA. 0+11 8"-18 BEND

CHIEF, BUREAU OF ENGINEERIN DATE

CHIEF, UTILITY DESIGN DIVISION DATE

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS-SURVEYORS-PHOTOGRAMMETRISTS

GREENHORNE & O'MARA, INC.

113 WEST ROAD, SUITE 208

BALTIMORE, MD. 21204

PHONE (301) 296-4100

MELVIN & ELIZABETH GARRETT 375/353

Strike Control	NE HARJE MARMON	wa.
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ROSE DELL ROBERTS

842/323

``- 5+50

209.4

6+02 ²

205.0

203.2

210.0

6+50 210.6

 DATE: APRIL , 1990	BY	NO.	REVISIONS	DATE
CHK: DSS/				
DRN: KRS				
DES: KRS				

PLAN FOR WATER MAIN AND SEWER EXTENSION PARK ROAD WATER & SEWER MAIN
CAPITAL PROJECT W-8167

CAPITAL PROJECT W-8167
CONTRACT NO. 24-3000
SIXTH ELECTION DISTRICT
HOWARD CO., MARYLAND

AS-BUILT 6/5/12 WBHQ.

B-1143-X

SCALE AS SHOWN

