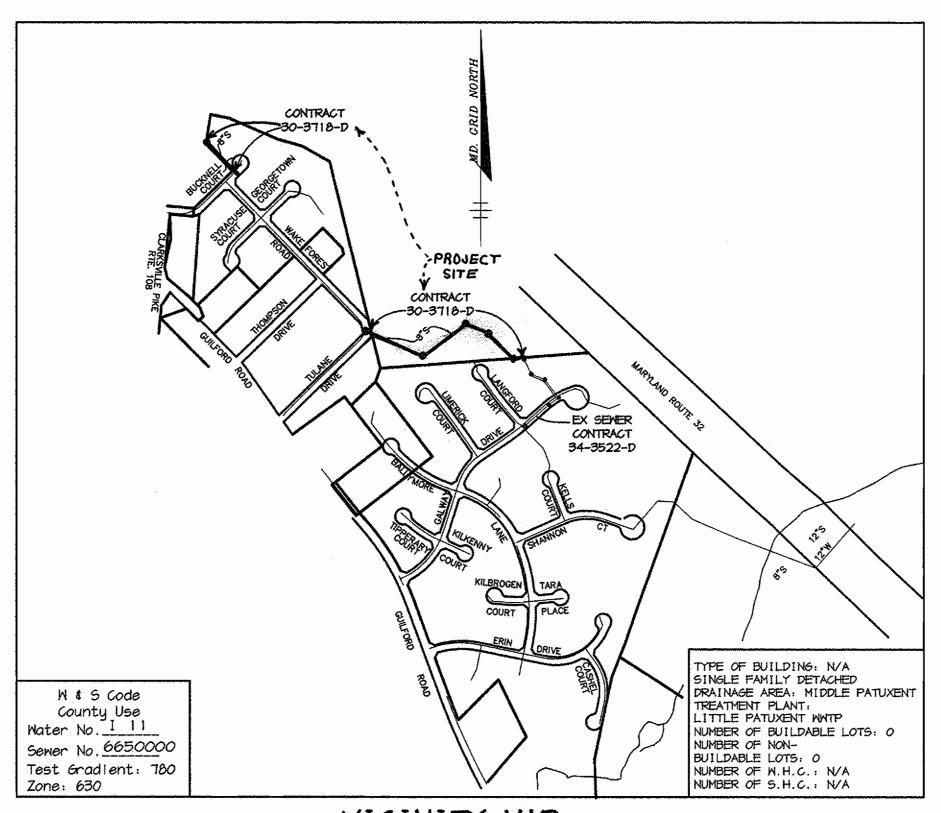
OUTFALL SEWER EXTENSION

CIARKS GIEN NORTH

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 30-3718-D



VICINITY MAP

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
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown 🔾 are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction. (Latest Edition). The contractor shall have a copy of Volume IV on the Job.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol = at 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.
- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration
Baltimore Gas & Electric Co. Contractor Services Baltimore Gas & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

1-800-257-7777 Bureau of Utilities, Howard County Department of Public Works 313-4900

531-5533 850-4620

787-9068

- 9. 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.
- 11. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- 12. All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 13. Force mains shall be D.I.P. only.
- 14. Manholes shown with 12" and 16" walls are for brick manholes only.
- 15. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frame and cover 1s used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.
- 16. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- 17. Manholes can be either brick or precast concrete structures.
- 18. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- 19. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five (5) working days before any open cut of any County road or boring\jacking operation in County roads for laying water\sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.
- 20. Howard County DPW is hereby granted permission to access private lots shown on these plans in order to maintain public water and sewer house connections at the curb stops and/or cleanouts.

will be implemented in accordance with Section AS-BUILT DATE 219 of the Specifications and as shown on F-99-52 SURVEY AND DRAFTING DIVISION Review for Howard Soil Conservation District and meets technical requirements

Sediment control measures for this contract

QUANTITIES

QUANTITIES

QUANTITIES

ESTIMATED

1333 LF

6 EA.

ITEMS

NAME OF UTILITY CONTRACTOR

8" SEWER

SEWER MANHOLES

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

AS-BUILT

TYPE

CHECKBOX

MANUFACTURER / SUPPLIER

RIEMER MUEGGE & ASSOCIATES, INC. ENCINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045

tel 410.997.8900 fax 410.997.9282

97016/FINALS OFFWS1.DWG



DES:	CJR				
DRN:	KEV				
снк:	CJR				
<u> </u>					
DATE:	1/11/99	BY	NO.	REVISION DATE	

TITLE SHEET

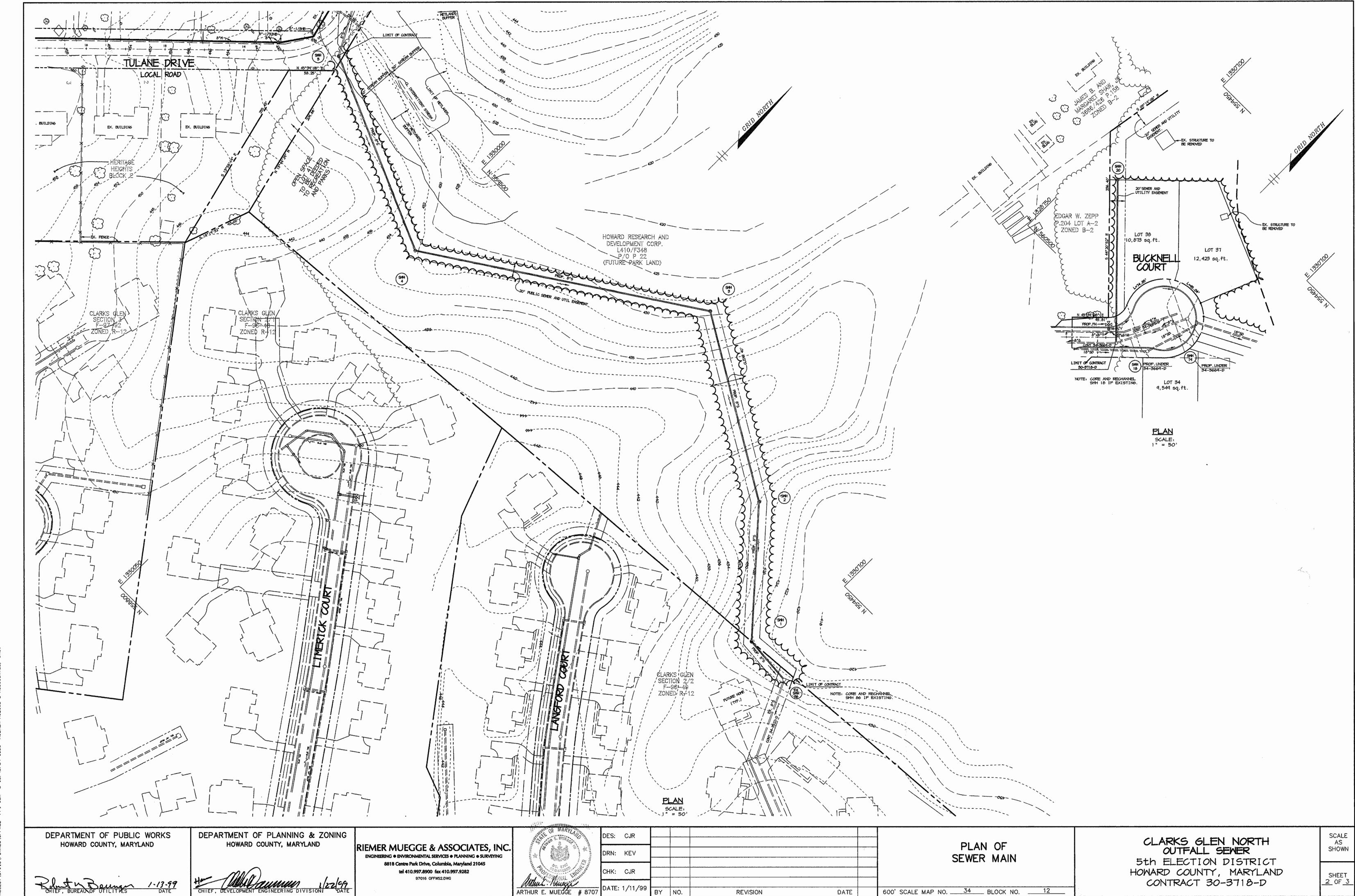
600' SCALE MAP NO. ____34 ___ BLOCK NO. ____12

CLARKS GLEN NORTH OUTFALL SEWER 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 30-3718-D

SCALE AS SHOWN

MAJOR OUT Fall Sewer

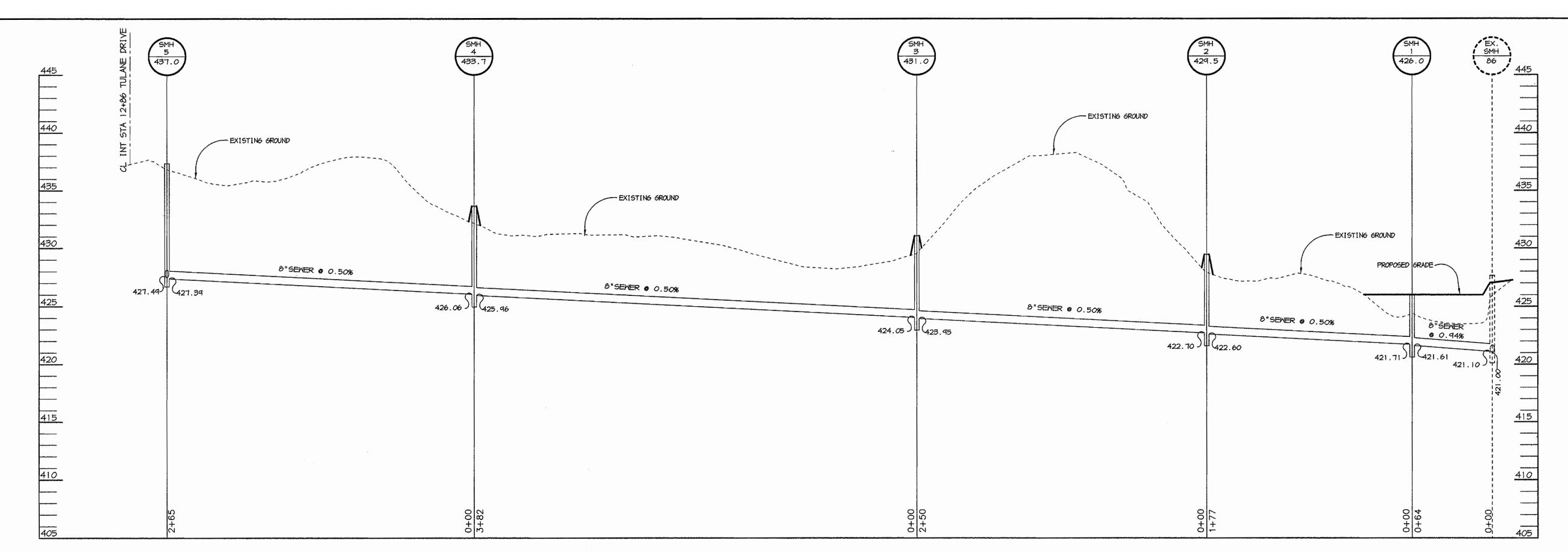
SHEET 1 OF 3



REVISION

DATE



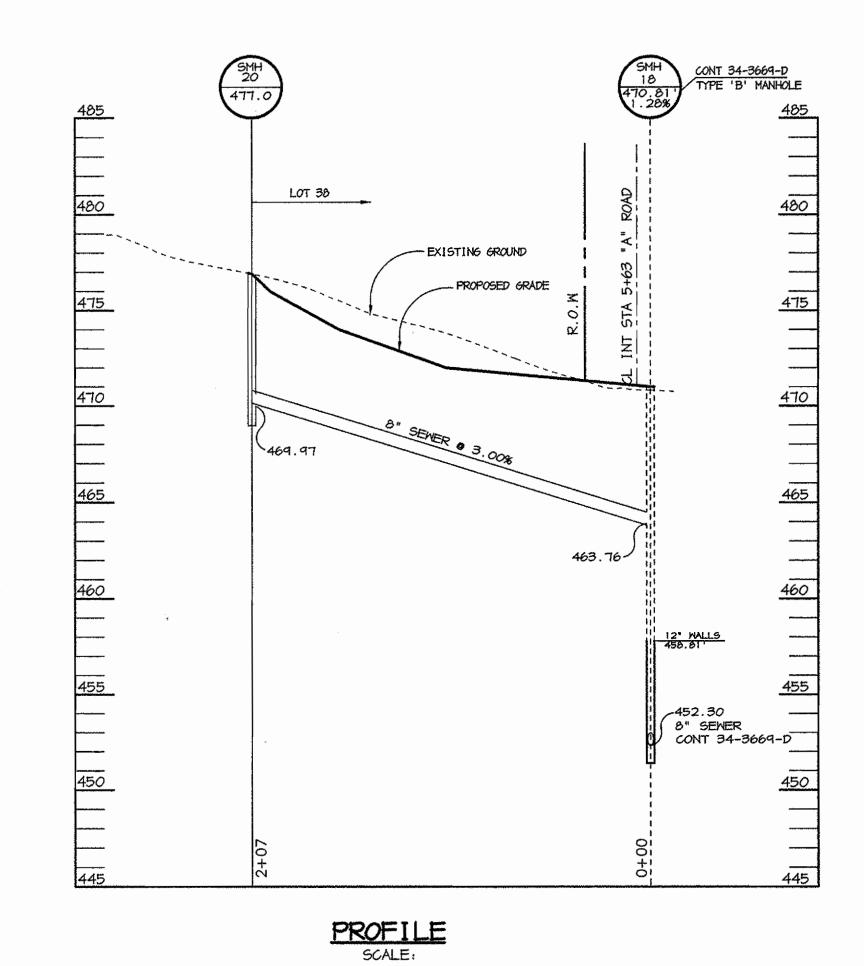


PROFILE

SCALE:

HOR. 1"=50'

VERT. 1"=5'

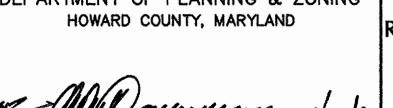


HOR. 1"=50' VERT. 1"=5' STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS	
SMH-1	STD. MH	¥ N 559,317.33 Е I	,330,665.83	421.71 (8")	421.61 (8")	426.0	HOCO STD. DETAIL 6 5.12
SMH-2	STD. MH	¥ N 559,449.50 E I	,330,547.42	422.72 (8")	422.60 (8")	429.5	HOCO STD. DETAIL 6 5.12
SMH-3	STD. MH	¥ N 559,577.10 E 1	,330,332.77	424.05 (8")	423.95 (8")	431.0	HOCO STD. DETAIL 6 5.12
SMH-4	STD. MH	¥ N 559,367.50 € 1	,331,002.88	426.06 (8")	425.96 (8")	433.7	HOCO STD. DETAIL 6 5.12
SMH-5	STD. МН	* N 559,481.98	,329.750.76	427.59 (8")	427.49 (8")	437.7	HOCO STD. DETAIL 6 5.12
SMH-20	STD. MH	¥ N 560,621.10 E 1	,328,790.07		469.97 (8")	477.0	HOCO STD. DETAIL 6 5.12

NOTES: * LOCATION OF MANHOLES IS AT CENTER OF TOP COVER.

DEPARTMENT	OF P	UBLIC	WORKS
HOWARD CO	YTMUC	MARYLA	AND



DEPARTMENT OF PLANNING & ZONING

RIEMER MUEGGE & ASSOCIATES, INC.

ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING

8818 Centre Park Drive, Columbia, Maryland 21045

tel 410.997.8900 fax 410.997.9282

97016/FINALS OFFWS3.DWG

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PESSIONAL HELLING	(
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ARTHUR E. MUEGGE # 8707	L

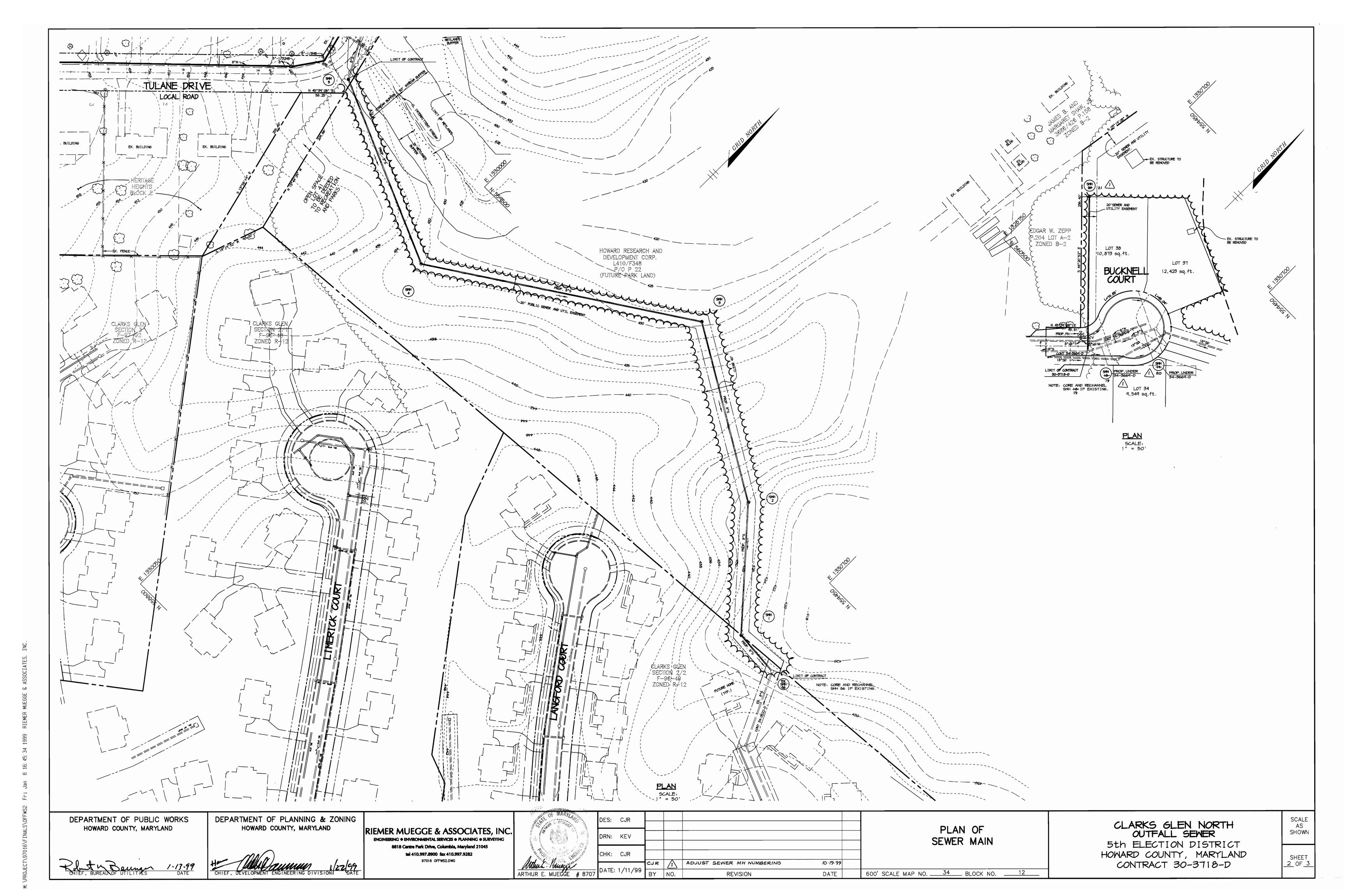
ES:	CJR					
RN:	KEV					PROFILES OF SEWER MAIN
HK:	CJR					
ATE:	1/11/99	BY	NO.	REVISION	DATE	600' SCALE MAP NO. 34 BLOCK NO. 1

CLARKS GLEN NORTH
OUTFALL SEWER
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 30-3718-D

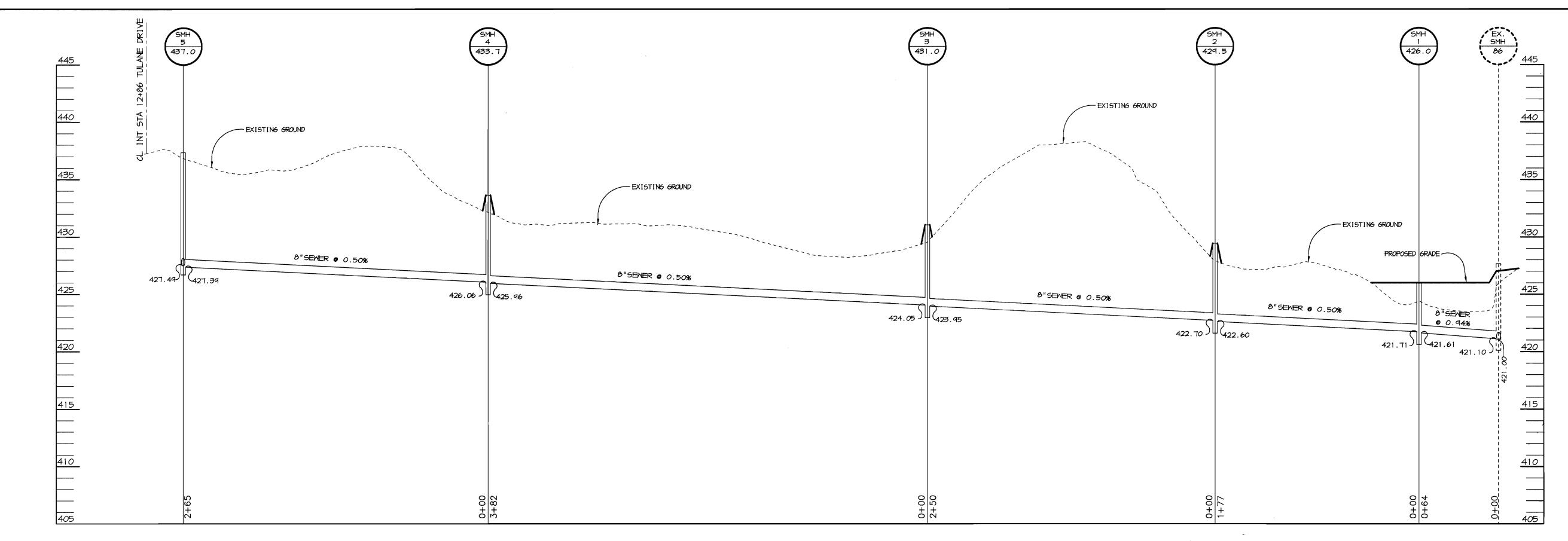
SCALE AS SHOWN

SHEET

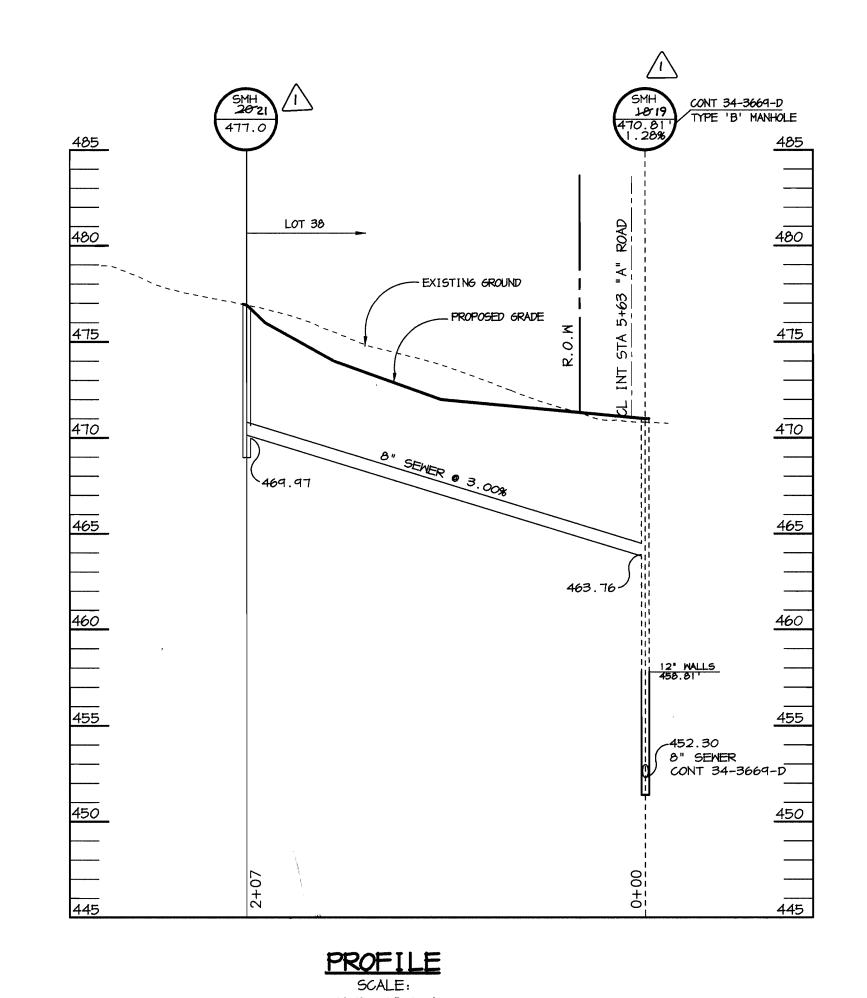
3 OF 3







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



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

STRUCTURE SCHEDULE

	,				-	
STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
SMH-1	STD. MH	₩ N 559,317.33 E 1,330,665.83	3 421.71 (8")	421.61 (8")	426.0	HOCO STD. DETAIL 6 5.12
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SMH-4	STD. MH	★ N 559,367.50 E 1,331,002.88	426.06 (8")	425.96 (8")	433.7	HOCO STD. DETAIL 6 5.12
SMH-5	STD. МН	* N 559, 473 · 68 E 1, 329, 769 · 79	427.59 (8")	427.49 (8")	437.7	HOCO STD. DETAIL 6 5.12
SMH-20	STD. MH	* N 560,621.10 E 1,328,790.0	-	469.97 (8")	477.0	HOCO STD. DETAIL 6 5.12

NOTES: * LOCATION OF MANHOLES IS AT CENTER OF TOP COVER.

DEPARTMENT	OF	PUBLIC	WORKS
HOWARD CO	TNUC	Y, MARYL	AND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SUI 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282

S, INC. URVEYING	A STORY
	Allun C. Miney ARTHUR E. MUEGGE
	ARTHUR E. MUEGGE #

	DES:	CJR			<u> </u>		
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4	DRN:	KEV					_
Mark C. K.	<u> </u>						
, de	CHK:	CJR					
u u	D 4 75	4 /44 /00	CJR	\triangle	ADJUST SEWER MANHOLE NUMBERING	(0-19-99	
# 8707	DATE:	1/11/99	BY	NO.	REVISION	DATE	

PROFILES OF SEWER MAIN

600' SCALE MAP NO. _____34____ BLOCK NO. _____12

CLARKS GLEN NORTH OUTFALL SEWER 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 30-3718-D SCALE AS SHOWN

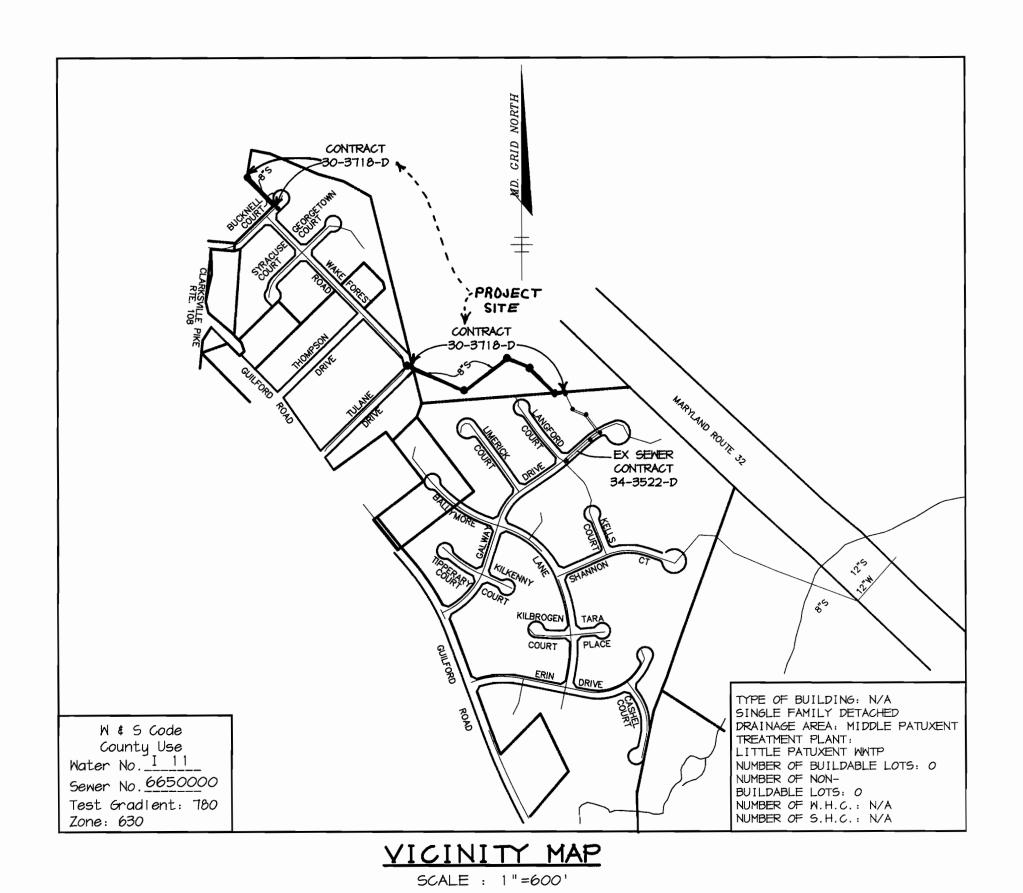
SHEET _3_OF_3_

3 PROFILE OF SEWER MAINS

OUTFALL SEWER EXTENSION

CLARKS GLEN NORTH

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 30-3718-D



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 expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
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- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

state Hiahwau /	Administration	531-553
	# Electric Co. Contractor Services	850-462
Baitimore Gas	& Electric Co. Underground Damage Control	787-906
11ss Utility		1-800-257-77
olonial Pipel	Ine Co.	795-139
Bureau of Util	Itles. Howard County Department of Public Works	313-490

- 9. 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.
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- 20. Howard County DPW is hereby granted permission to access private lots shown on these plans in order to maintain public water and sewer house connections at the curb stops and/or cleanouts.

"MAJOR OUT Fall Sewer"

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Sediment control measures for this contract will be implemented in accordance with Section

219 of the Specifications and as shown on F-99-52

Review for Howard Soil Conservation District and

QUANTITIES

QUANTITIES

13.13 L.F.

6 EA.

QUANTITIES

ESTIMATED

6 EA.

1333 LF

I TEMS

NAME OF UTILITY CONTRACTOR

meets technical requirements.

8" SEWER

SEWER MANHOLES

AS-BUILT

TYPE

8" PVC

PRECAST

CHECKBOX

AS-BUILT DATE

SURVEY AND DRAFTING DIVISION

MANUFACTURER ,

M MANUFACTURERS

ATLANTIC CONCRETE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

8818 Cents

tel
DEVELOPMENT ENGINEERING DIVISION DATE

RIEMER MUEGGE & ASSOCIATES, INC.

ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING

8818 Centre Park Drive, Columbia, Maryland 21045

tel 410.997.8900 fax 410.997.9282

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	DES:	CJR				
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	DRN:	KEV				
<i>11</i>	CHK:				,	
Atthur C. Muege RTHUR E. MUEGGE # 8707	DATE	1 /11 /00				
RTHUR E. MUEGGE # 8707	DA IE:	1/11/99	BY	NO.	REVISION DATE	600'

TITLE SHEET

SCALE MAP NO. ____34 ___ BLOCK NO.

CLARKS GLEN NORTH
OUTFALL SEMER
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 30-3718-D

SCALE AS SHOWN

SHEET 1_ OF <u>3</u>

