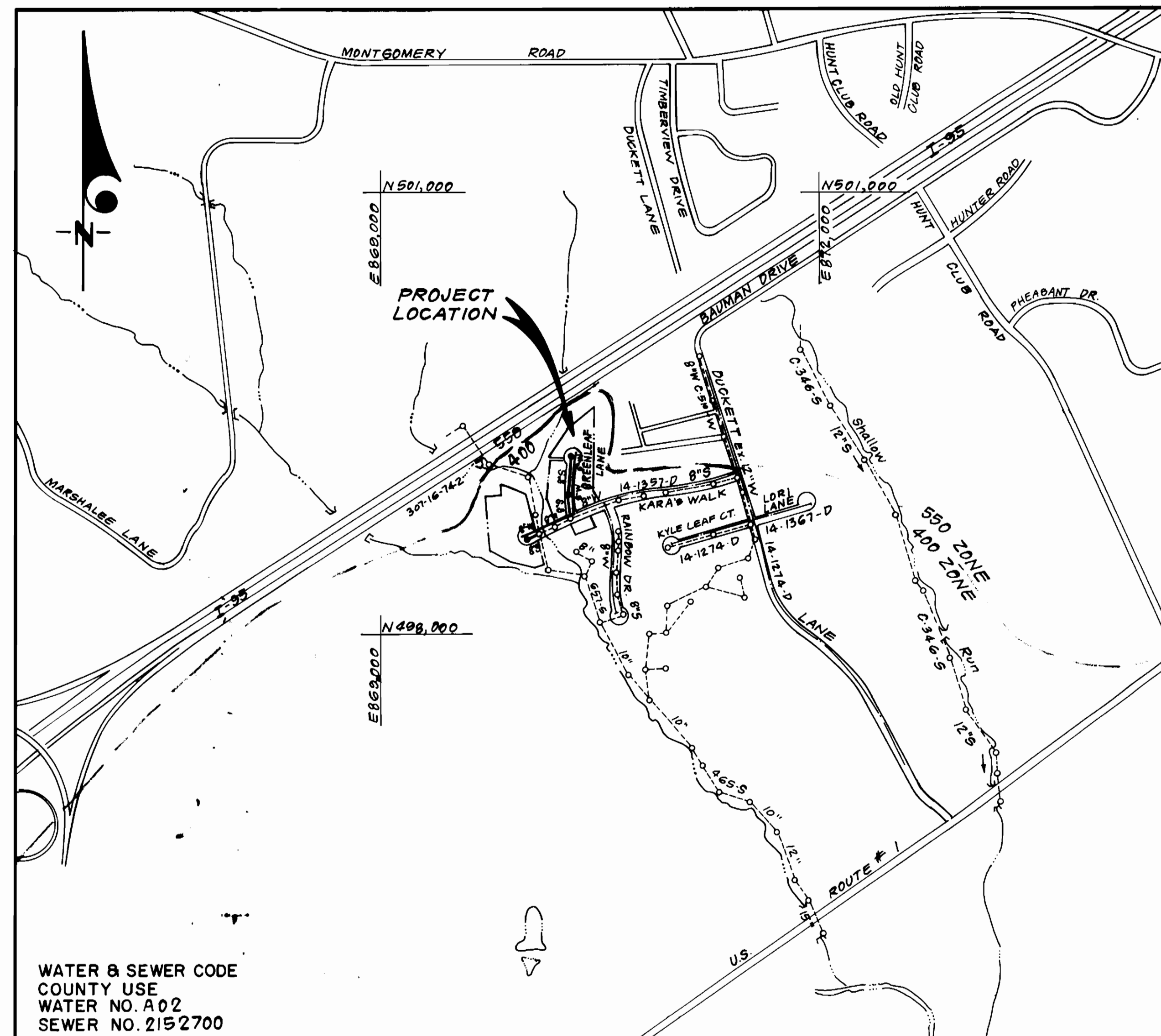


TYPE OF BUILDING	<u>Single Family</u>
NO. OF LOTS	<u>24</u>
NO. OF WHC's	<u>23</u>
NO. OF SHC's	<u>23</u>
DRAINAGE AREA	<u>Patapsco</u>



WATER & SEWER CODE  
COUNTY USE  
WATER NO. A02  
SEWER NO. 2152700

VICINITY MAP  
SCALE: 1" = 600'

**CONTRACT NO.14-1997 - D  
MELBOURNE ESTATES  
LOTS 43 THRU 67, SECTION 1 AREA 3  
A RESUBDIVISION OF LOT 42  
HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS**

**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 inspector, at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6" clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications and Howard County Design Manual, Volume IV, 1989 Amendments. The Contractor shall have Volume IV, 1989 Amend. on the job site.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
  - State Highway Administration - 531-5533
  - Baltimore Gas & Electric Company - Underground Damage Control - 859-9004
  - Baltimore Gas & Electric Company - Contractor Services - 850-4620
  - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
  - "Miss Utility" - 1-800-257-7777
  - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
  - Bureau of Utilities Howard County - 992-2366
  - Colonial Pipeline Company - 795-1390
- Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
- Contractor shall remove trees, stumps, and roots along line of excavation as directed by the inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., or P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- Manholes designated thus: WT, shall have a Watertight Frame and Cover.
- All D.I.P. fittings shall be in accordance with AWWA specification C-153 Ductile Iron Compact Fittings, 3-inch through 12-inch for water and other liquids.
- All Sewer House Connections shall be 4" I.D.

QUANTITIES			
ITEM	EST'D	AS BUILT	MATERIAL / SUPPLIER
8"W	619 LF	217 LF	Belair Road Supply J.M.
8"W	600 LF	208 LF	Griffin Pipe Products
6"W	275 LF	265 LF	Griffin Pipe Products
4"SHC	717 LF	637 LF	Belair Road Supply J.M.
1"WHC	300 LF	300 LF	Belair Road Supply Howell Metals
3/4"WHC	280 LF	280 LF	Belair Road Supply Howell Metals
4'0" DIA MH	3 EA	3 EA	Atlantic Concrete Products
FIRE HYDRANT	2 EA	2 EA	Belair Road Supply Miller
8"V	2 EA	2 EA	Belair Road Supply Miller
6"V (excl. FH)	2 EA	2 EA	Belair Road Supply Miller

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F-89-224; Drawing, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* 11-27-89  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:  
*[Signature]* 11/29/89  
Howard S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		<b>CLARK - FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS - PLANNERS - SURVEYORS 7135 MINSTREL WAY COLUMBIA MARYLAND 21045 (301) 381-7500 BALTO. (301) 621-8100 WASH.		DES: J7R			
<i>[Signature]</i> 12/1/89 DIRECTOR OF PUBLIC WORKS DATE	<i>[Signature]</i> 11/30/89 CHIEF, BUREAU OF ENGINEERING DATE			DRN: VLM			
<i>[Signature]</i> 11-17-89 CHIEF, BUREAU OF UTILITIES DATE	<i>[Signature]</i> 11/30/89 CHIEF, LAND DEVELOPMENT DIV. DATE		CHK: CCM				
			DATE: 2-89	BY NO.	REVISION	DATE	

TITLE SHEET

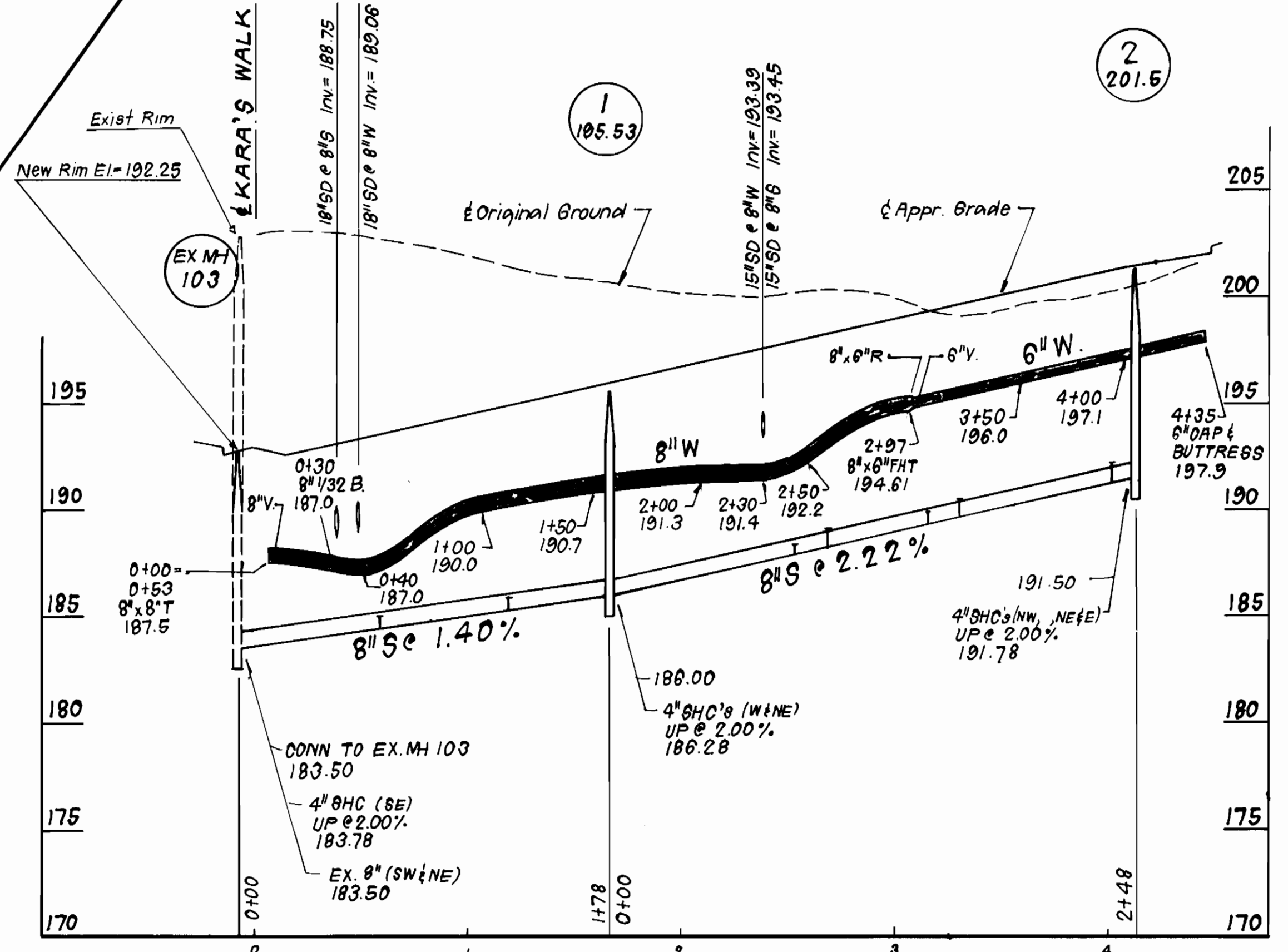
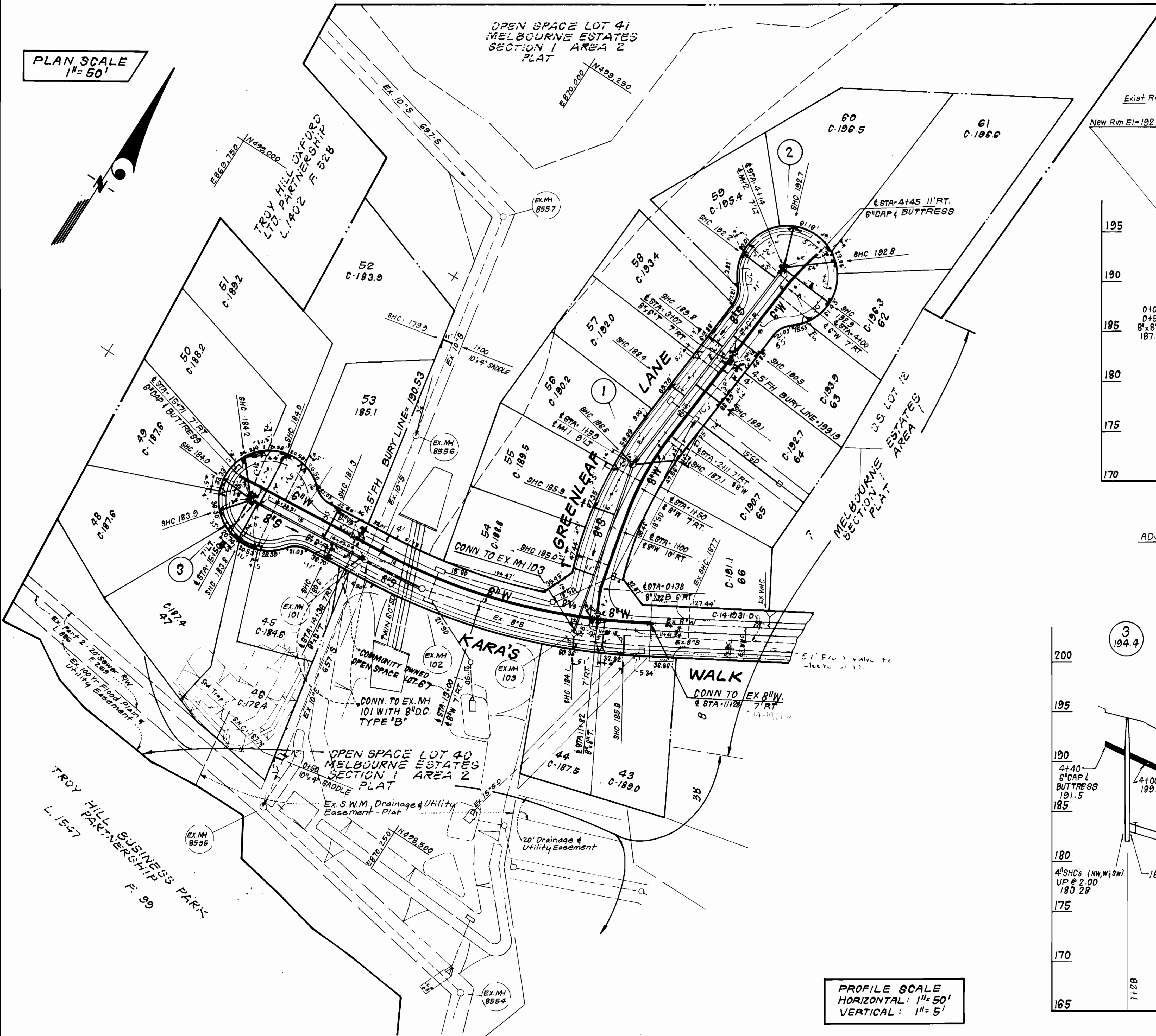
600' SCALE MAP NO. 37 BLOCK NO. \_\_\_\_\_

MELBOURNE ESTATES LOTS 43 THRU 67, SECTION 1 AREA 3 A RESUBDIVISION OF LOT 42 1 <sup>ST</sup> ELECTION DISTRICT CONTRACT NO. 14-1997-D	SCALE AS SHOWN SHEET 1 OF 2
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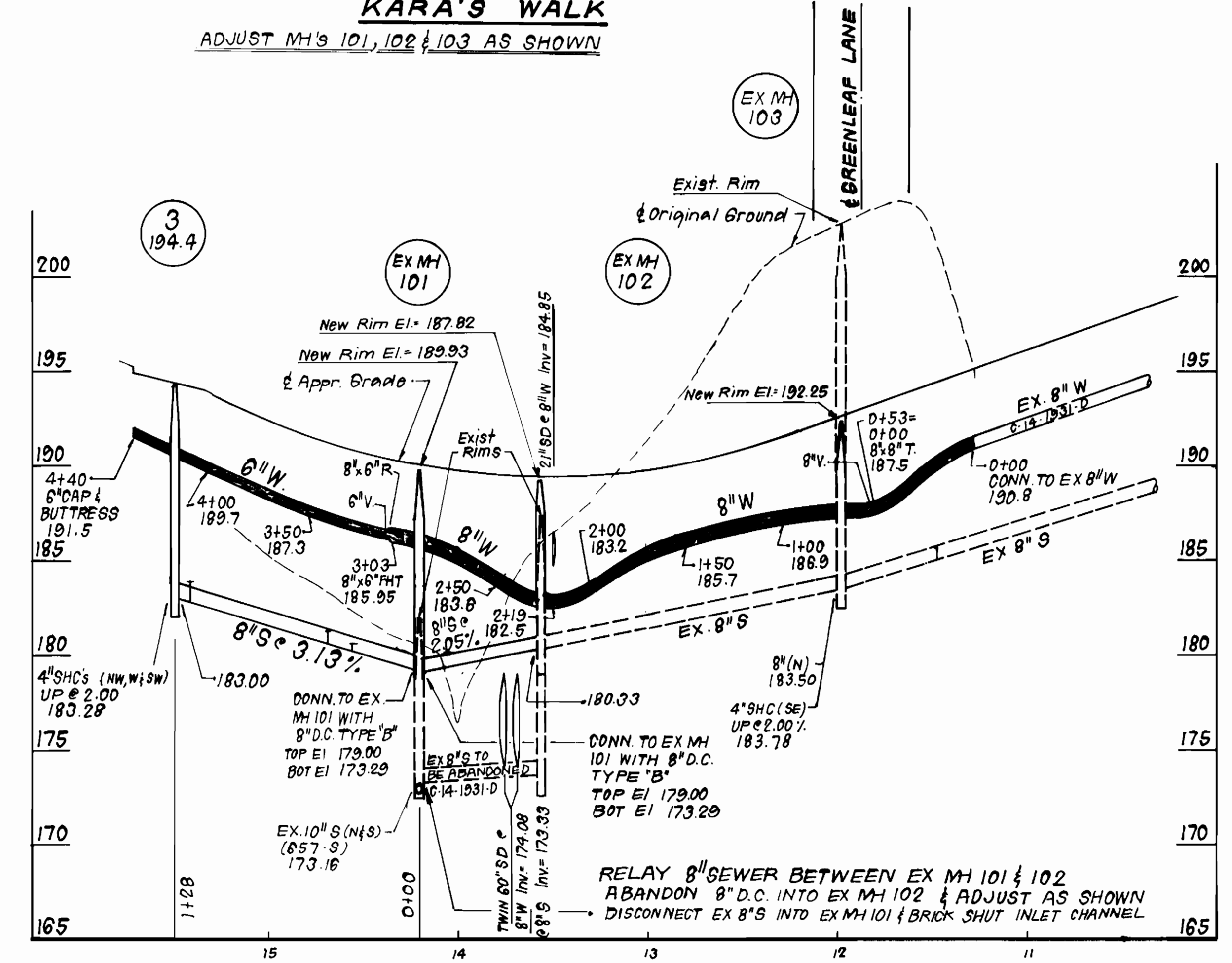
**INTERSTATE I-95**

**GREENLEAF LANE**

**PLAN SCALE**  
1" = 50'



**KARA'S WALK**  
ADJUST MH'S 101, 102 & 103 AS SHOWN



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

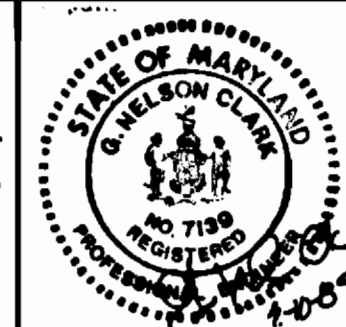
**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

12/1/89  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS

11/30/89  
*[Signature]*  
CHIEF, BUREAU OF UTILITIES

**CLARK - FINEPROCK & SACKETT, INC.**  
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR			
DRN: JTR & VLM			
CHK: COM			
DATE: Feb 89	BY: JTR	REVISION: Revised WHC to Lot 59	DATE: 5-16-90

**PLAN & PROFILES OF WATER & SEWER MAINS**

600' SCALE MAP NO. 37 BLOCK NO.

**MELBOURNE ESTATES**  
LOTS 43 THRU 67, SECTION 1 AREA 3  
A RESUBDIVISION OF LOT 42  
1<sup>ST</sup> ELECTION DISTRICT  
CONTRACT NO. 14-1997-D

SCALE  
AS SHOWN

SHEET  
2 OF 2