HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

Reviewed for Howard County S.C.D. and meets technical requirements.

This development plan is approved for soil erosion and sediment control by The Howard County Soil Conservation

ENGINEER'S CERTIFICATION

I certify that this plan for erosion & 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 County Soil Conservation District

water Date: 12/1/83 KIDDE CONSULTANTS, INC. 1020 CROMWELL BRIDGE ROAD TOWSON, MD. 21204

DEVELOPER'S CERTIFICATION

"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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the

20 12.12.83 BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS

BENCH MARKS

3243002-R

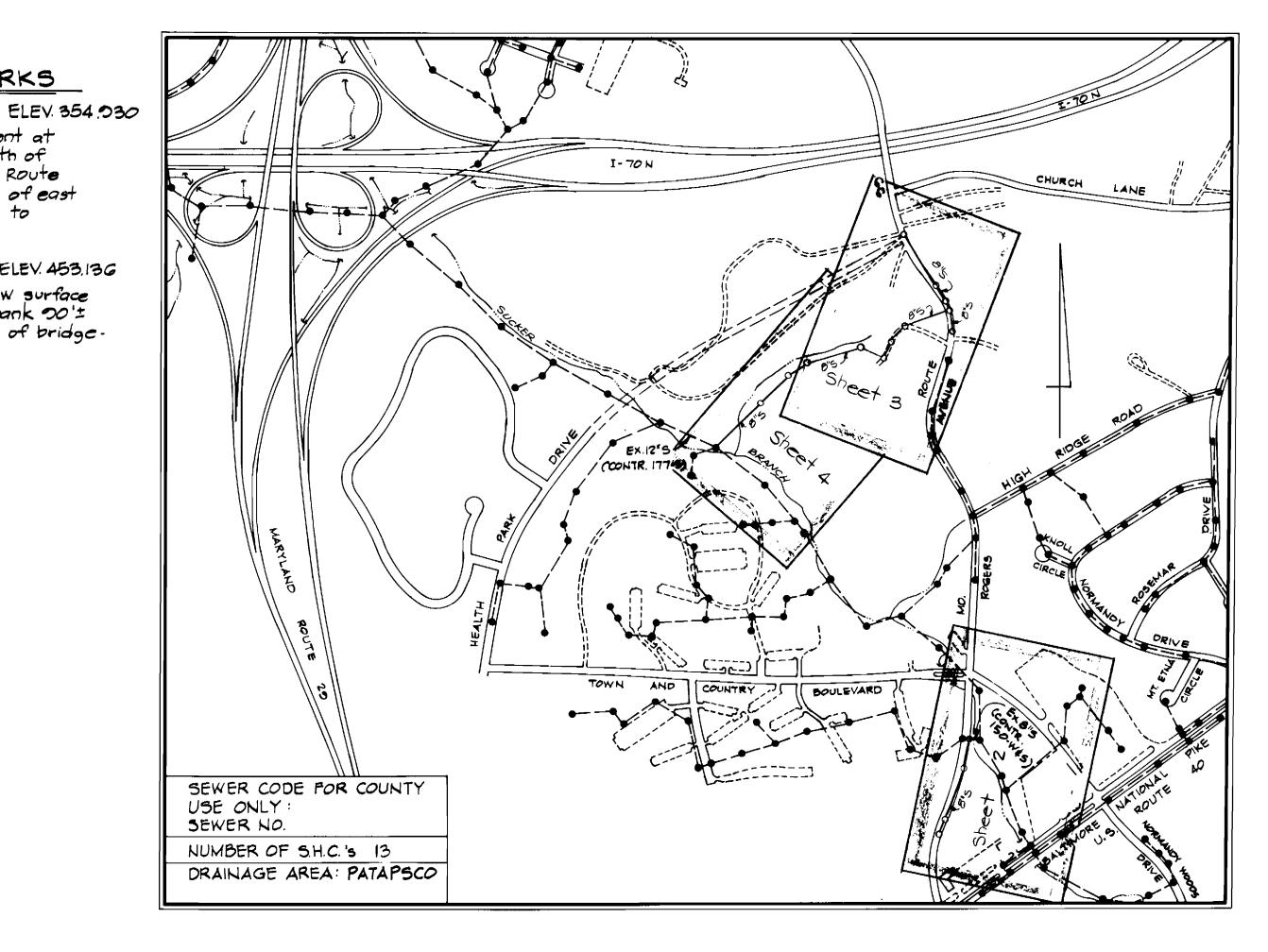
Concrete Monument at surface 5.5' ± south of left turn lane of Route 40 West 14't east of east edge of crossover to

Route 99 South.

3443003-R

ELEV. 453,136

3/4" Rebar 0.5' below surface 5' = south of top bank 90' = east of east edge of bridge. (MD. ROUTE 99)



AGENERAL 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,
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF G". CLEAR ALL POLES BY 2'-O" MINIMUM OR TUNNEL AS REQUIRED, THE OWNER HAS CONTACTED THE UTILITIES 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 THE 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.
- G. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, YOLUME IV, STANDARD SPECIFICATIONS AND DETÁILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IN
- 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 POLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION 531-5533 BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTOR SERVICES - 561 - 2585 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND DAMAGE CONTROL - 234-5621 BALTIMORE GAS & ELECTRIC COMPANY - TROUBLE SHOOTING - 208-9013 MISS UTILITY - 1-550 -0100
- COLONIAL PIPELINE COMPANY 705-1300 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS -992-2366 O. 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 C.S.P.X., R.C.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS
- 12. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR
- 13, ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED,
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY,
- 15, MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL S1.45. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-G" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- IG. HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

ROGERS AVENUE COLLECTOR SEWERS

SUPPLIERS ITEM ESTIMATE AS BUILT MATERIAL 8" D.I.P. CL. 52 400 L.F. 8" SEWER 3092 L.F. G'SEWER 270 L.F. MANHOLES 17 Manholes over 6.5 73 Y.F. 8" Type B - Drop Conn Mainline Y-Branch 10 or Tees

CAPITAL PROJECT NO. S-6114

CONTRACT NO. 10-1129

ELECTION DISTRICT



ROGERS AVENUE COLLECTOR SEWERS CAPITAL PROJECT NO. 5-GII4

CONTRACT NO. 10-1129

KIDDE CONSULTANTS, INC.

CONTRACT NO. 10-1129 LOCATION MAP OF

ROGERS AVENUE COLLECTOR SEWERS TITLE SHEET

8-16-84

DATE

Revised General Notes

REVISION

BY NO.

DRAWING OF <u>6</u>

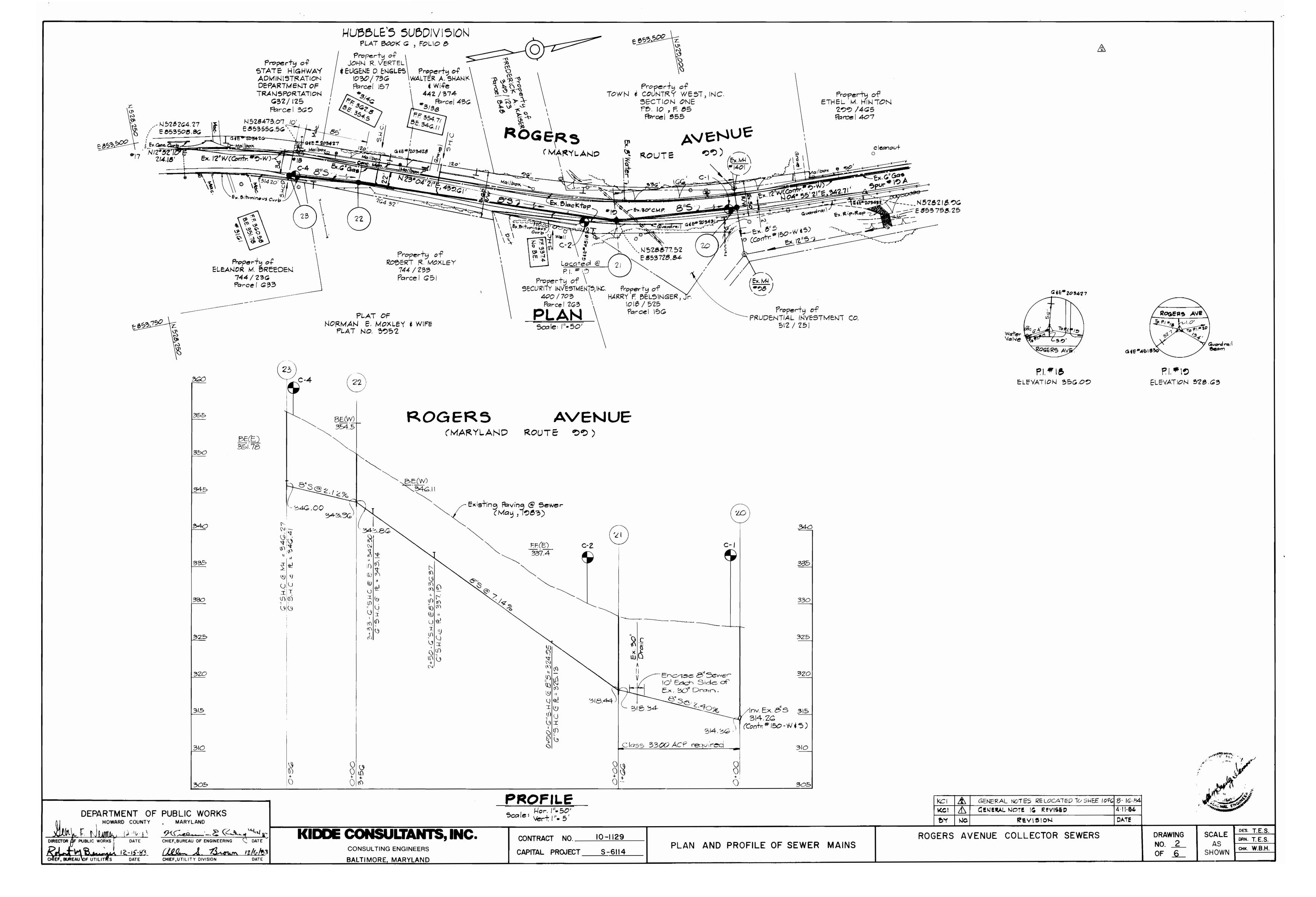
DES. T.E.S. DRN. T.E.S. I"= 600' снк. **W.В.**Н.

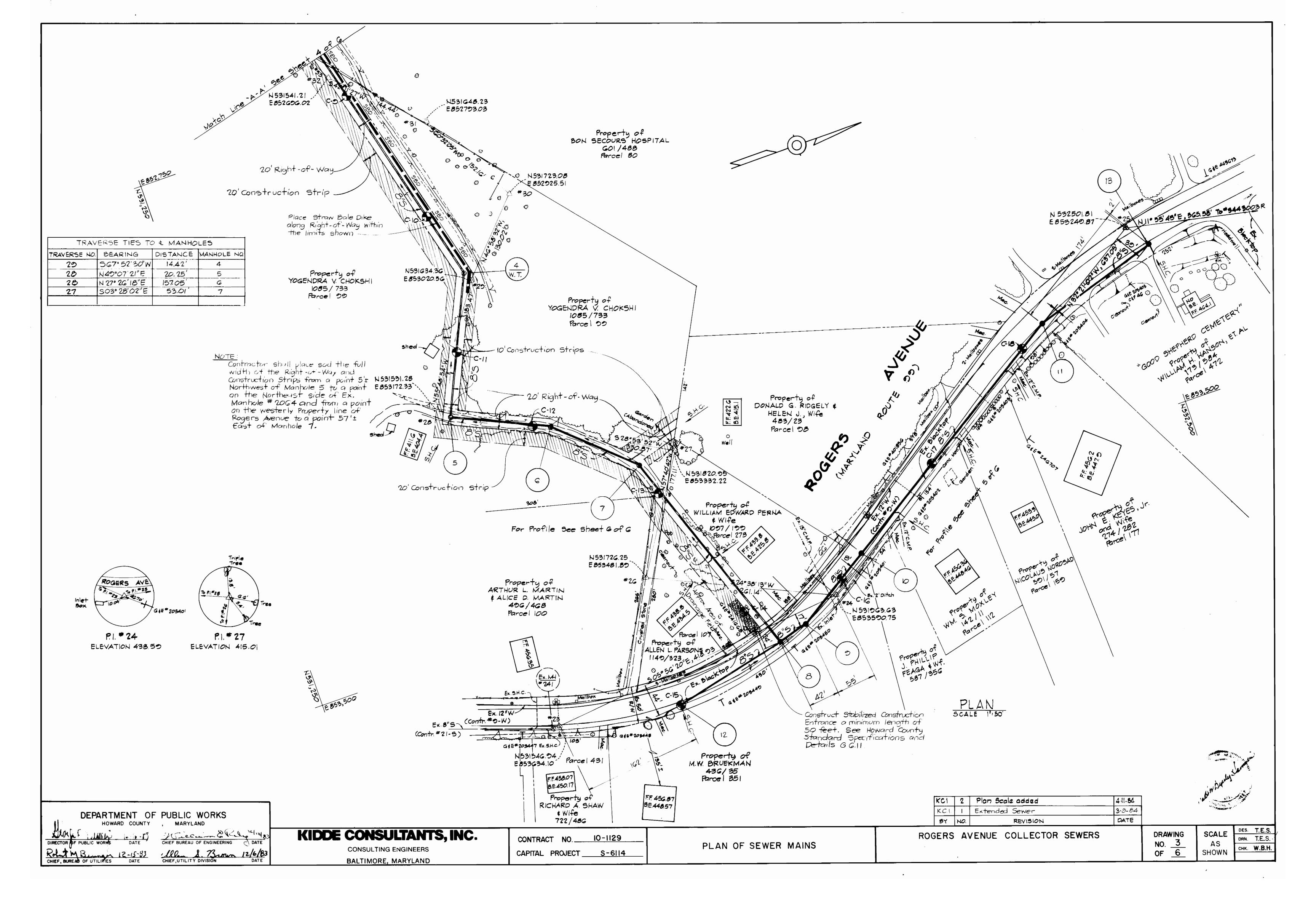
CONSULTING ENGINEERS

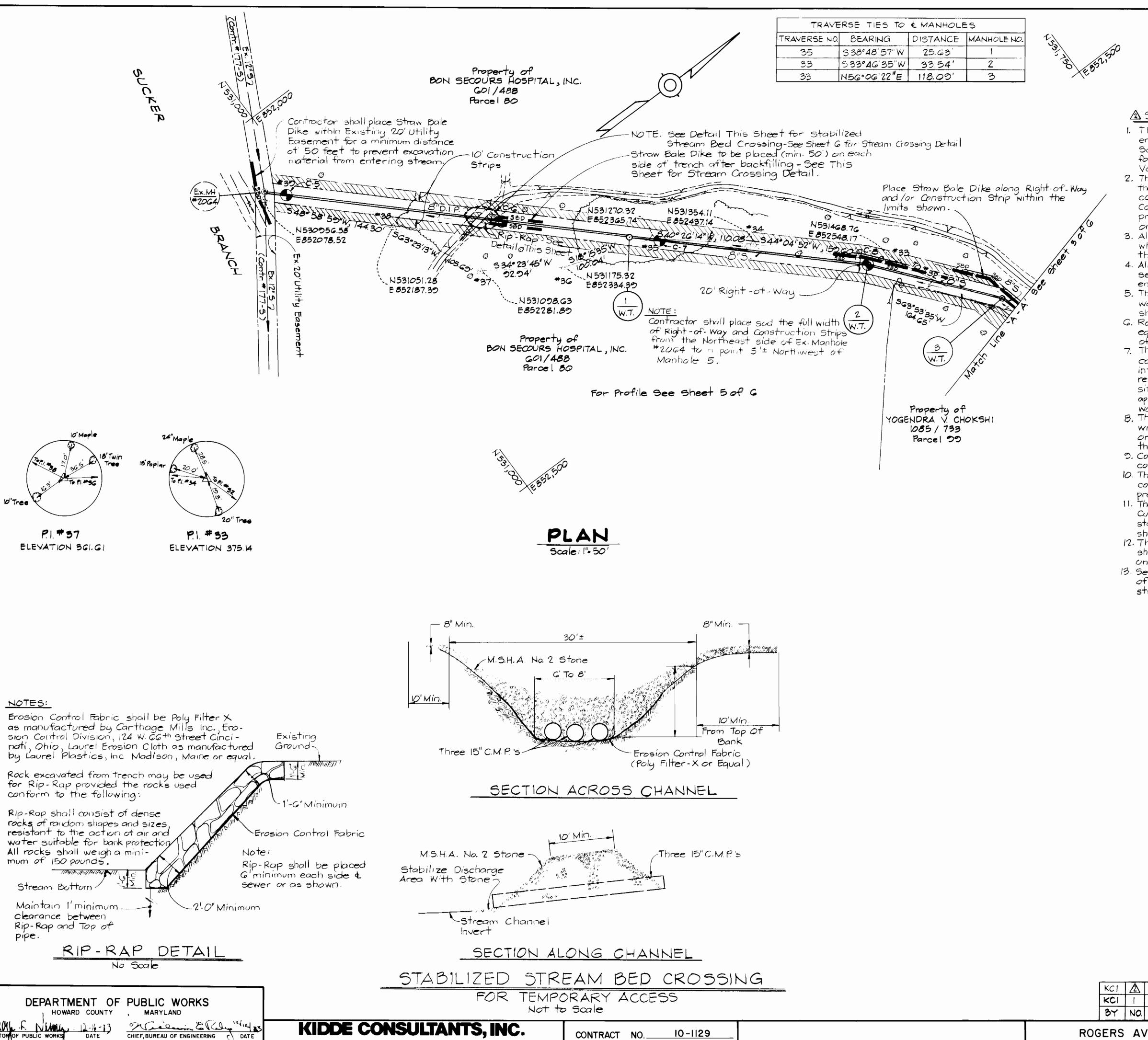
BALTIMORE, MARYLAND

CAPITAL PROJECT <u>\$-6i14</u>

SEWER MAIN EXTENSION









1. The Contractor will comply with all requirements of sediment and erosion control as set forth in the contract drawings, the USDA Soil Conservation Service Manual, "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas", and Volume IV - Article 15 of the Howard County Design Manual, Volume IV.

2. The Contractor shall not pump from excavated areas directly into the Howard County Storm Drainage System or any natural water course. Where groundwater is encountered during construction, the Contractor shall provide portable or excavated sediment traps to prevent silted trench water from entering storm drainage systems or natural waterways.

3. All excavated material shall be placed on the high side of the trench whenever possible, and confined to an area where it will not obstruct the normal flow of drainage courses.

4. All swales shall be equipped with a sediment retention device to trap sediment and filter water leaving the right-of way prior to entering any running streams.

5. The Contractor shall provide straw bale dikes normal to surface water flow around all vehicle and equipment staging areas as shown in "Detail of a Straw Bale Dike" enclosed in specifications.

G. Roadside ditches and drainage pipes shall be restored to a condition equal to or better than the original condition following completion of construction.

7. The Contractor shall dispose of spoils in accordance with good soil conservation practice and in such a manner that nane can be carried into any drainage facility or water course. The Contractor shall be responsible for disposing of all spoil or excess excavated material on a site approved by the Soil Conservation District. Documentation of approval and site shall be provided to the Engineer prior to beginning work.

8. The Howard County Soil Conservation District must be notified in writing by the Contractor as to where excess material will be disposed or borrow material will be obtained. Prior to beginning any work on this project, copies shall be provided to the Engineer.

9. Continuous inspection and maintenance of all sediment and erosion control devices will be required.

10. The Contractor shall provide additional soil erosion and sediment control as required by the Sediment Control Inspector, as the work progresses or requires

11. The Contractor shall notify in writing, a Howard County Sediment Cuntral Division Representative at least three (3) days prior to starting work. Please contact: Howard County - 992-2436. Copies shall be provided to the Engineer.

12. The Contractor shall place a Stabilized Construction Entrance as shown in the Howard County Standard Details, G.G.II, where shown on the Plans unless otherwise directed by the Engineer.

13. Sediment Removal - All trapped sediment is to be removed and disposed of at the authorized Landfills prior to removal of sediment control structures.



BY	0	REVISION	DATE
K O	1	SEDIMENT CONTROL NOTE IS REVISED	4-11-84
KC1	\triangle	REVISED SEDIMENT CONTROL NOTES	8-16-84

KIDDE	CONSULTANTS, INC.
	CONCLUTING ENGINEEDS

Robert & Berning 12-15-83

CHIEF, UTILITY DIVISION DATE

CONSULTING ENGINEERS BALTIMORE, MARYLAND CAPITAL PROJECT S-6114

PLAN OF SEWER MAINS

ROGERS AVENUE COLLECTOR SEWERS

DRAWING 4 OF <u>6</u>

DES. T.E.S. DRN. T.E.S. AS снк. **W.B.H**. SHOWN

