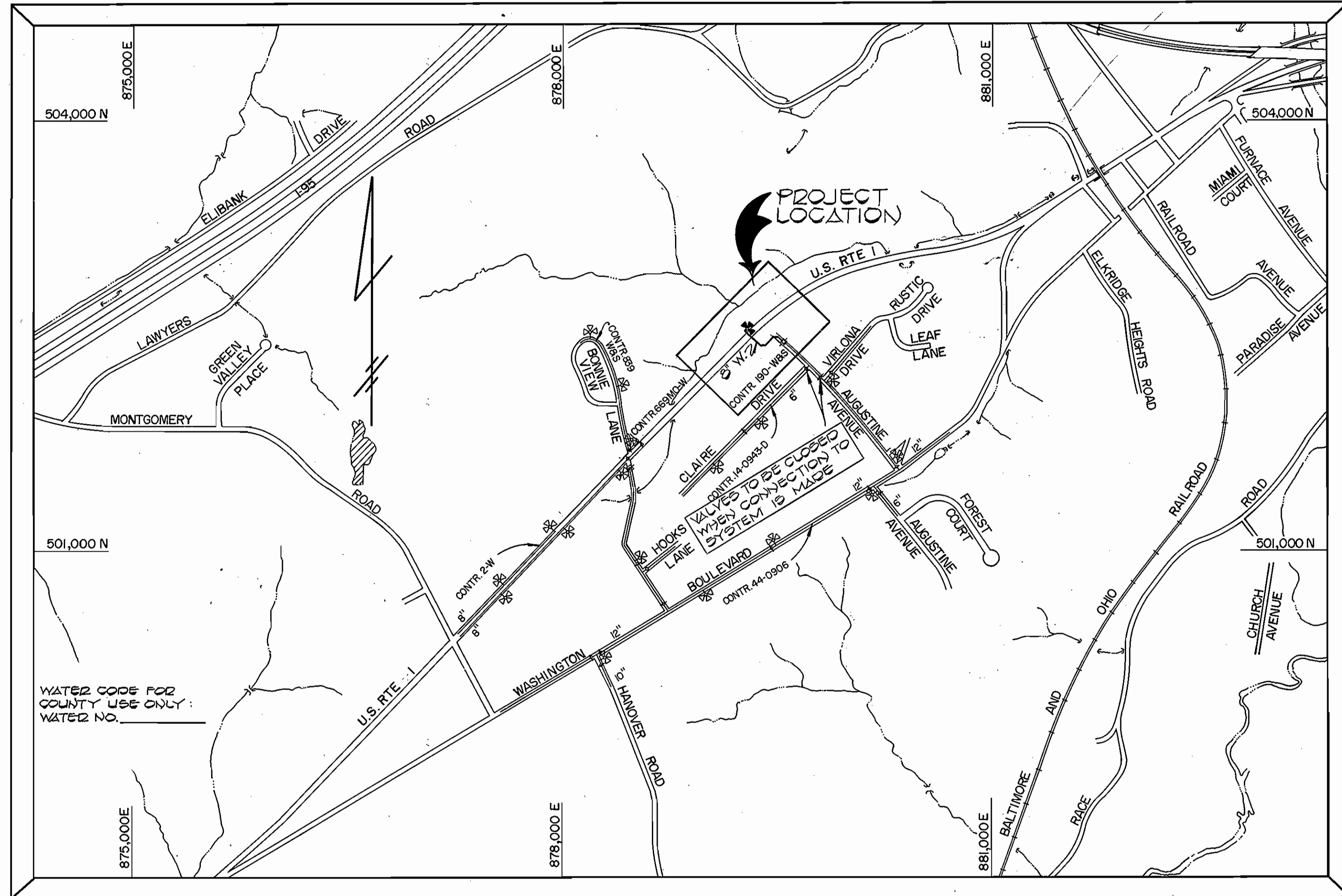


**GENERAL NOTES**

1. 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 CONTRACTORS EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
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. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
6. FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
7. FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATION.
8. 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.
9. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - (531-5333)
  - BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE - (685-0123)
  - BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND GAS DISTRIBUTION, CUSTOMER SERVICE - (685-0123)
  - ENGINEERING "DAMAGE CONTROL" - (234-5621)
  - "MISS UTILITY" - (1-559-0100)
  - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - (725-9976)
  - BUREAU OF UTILITIES, HOWARD COUNTY - (992-2366)
10. TREE 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.
11. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN. 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.
12. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
14. BLOCK ALL FITTINGS WITH CONCRETE.
15. 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 IS TO BE COMPACTED IN ACCORDANCE WITH SECTION 37.01 AND 37.05 OF THE STANDARD SPECIFICATIONS.
16. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING. WATER MAIN AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
17. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
18. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.

QUANTITIES			
ITEM	EST'D	AS-BUILT	SUPPLIER
6" WATER	322 L.F.		
FIRE HYD.	1 EA.		
1" WVC	10 L.F.		
G VALVE	2 EA.		



TYPE OF BUILDINGS: COMMERCIAL  
 NUMBER OF PARCELS: 1  
 NO. OF WATER HOUSE CONNECTIONS: 1  
 DRAINAGE AREA: 1.00 ACRES

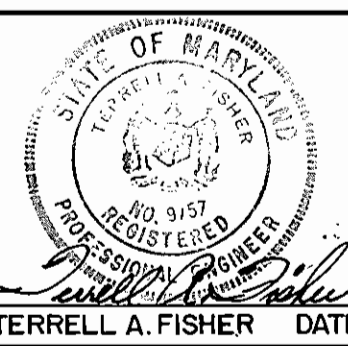
SCALE: 1" = 600'

**CONTRACT NO. 44-1100**  
**CAPITAL PROJECT W-8137**  
**ROUTE 1 - WATER MAIN EXTENSION**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

CONTRACT NO. 44-1100  
 CAPITAL PROJECT W-8137  
 ROUTE 1 WATER MAIN EXTENSION

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *Robert M. Bevinger* 5-9-83  
 Chief, Bureau of Engineering: *Allen L. Brown* 5/14/83  
 Chief, Bureau of Utilities: *Robert M. Bevinger* 5-9-83  
 Chief, Utility Division: *Allen L. Brown* 5/14/83

**FISHER, COLLINS AND CARTER, INC.**  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043



DES: D.B.S.			
DRN: D.B.B.			
CHK: T.A.F.			
DATE: 1-31-83			
BY	NO.	REVISION	DATE

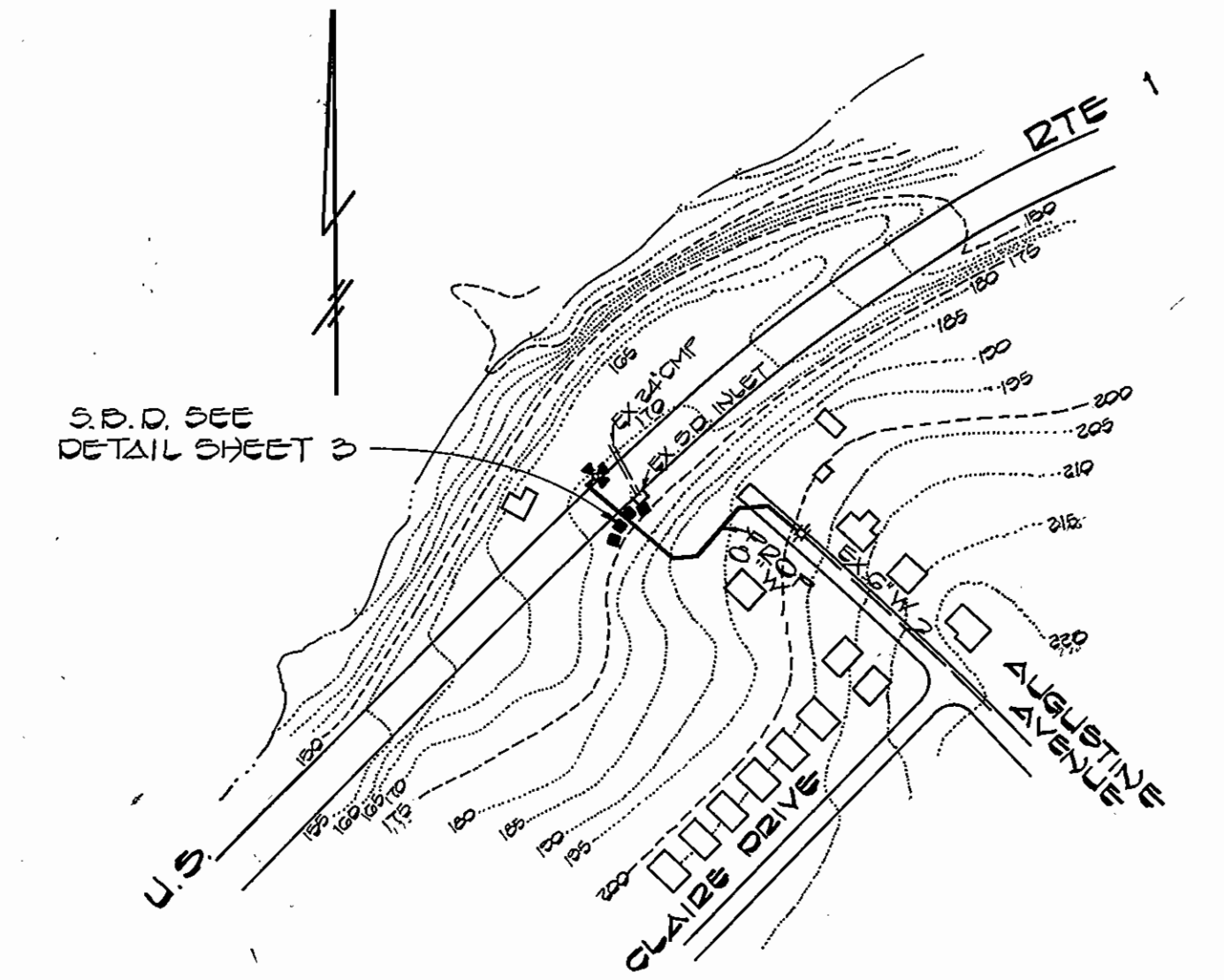
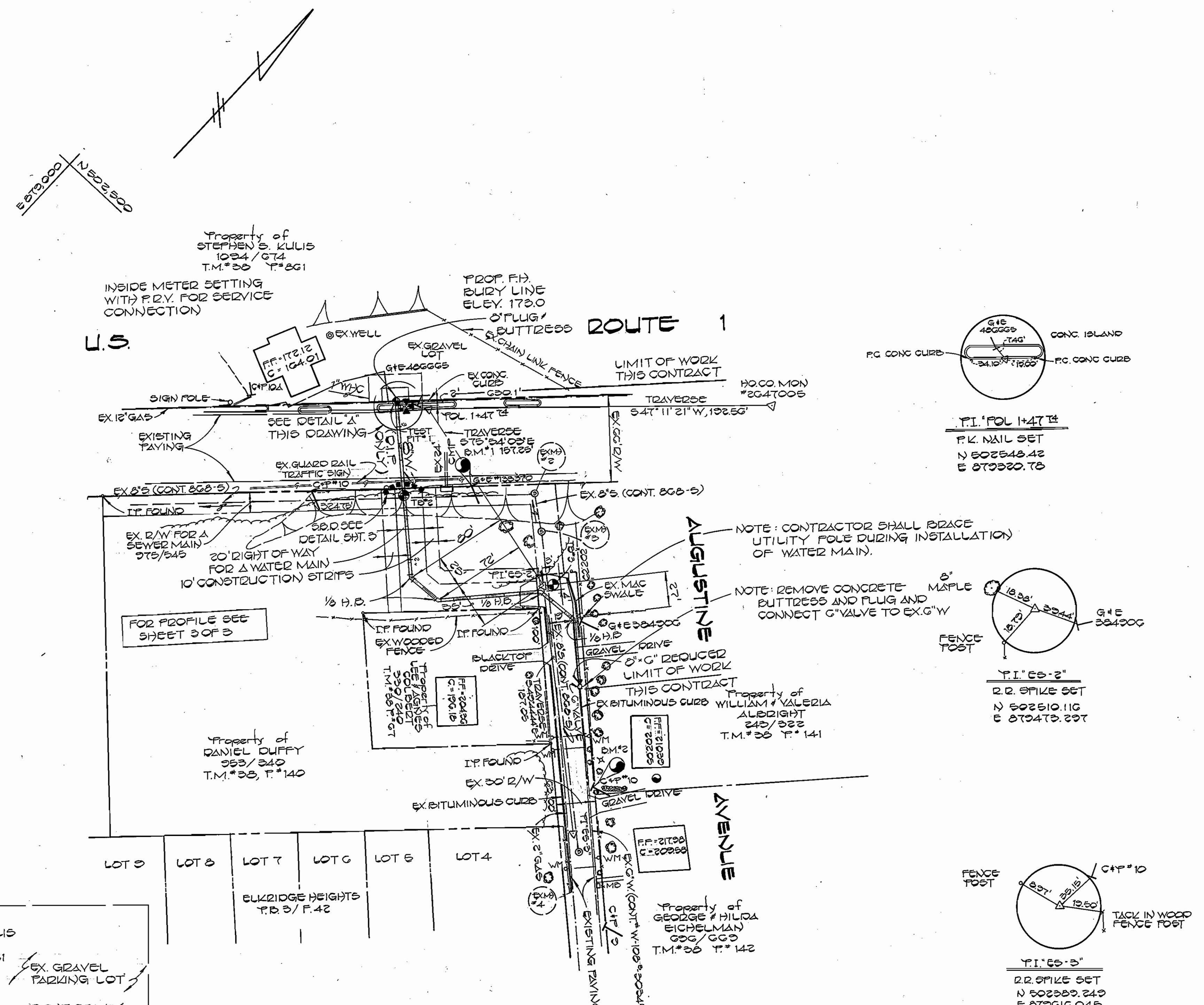
TITLE SHEET

**ROUTE 1 WATER MAIN EXTENSION**  
**CAPITAL PROJECT NO. W-8137**  
**CONTRACT NO. 44-1100**  
**FIRST ELECTION DISTRICT**  
**HOWARD COUNTY MARYLAND**

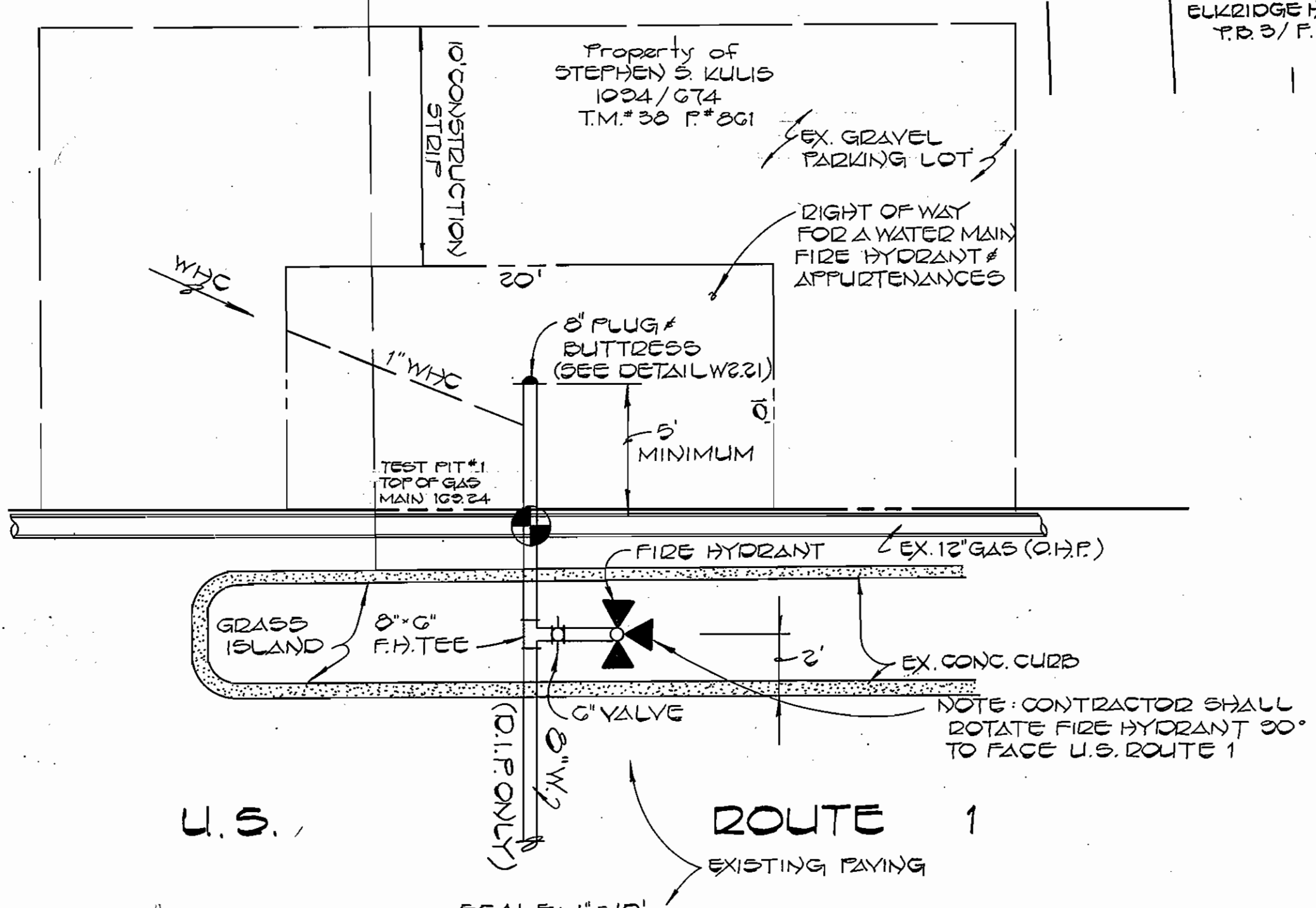
SCALE AS SHOWN  
 SHEET 1 OF 3

**BENCH MARKS**

F.C.C. B.M.#1 ELEV. 174.70  
 R.R. SPIKE IN B.G.#6 POLE #139970;  
 67' SOUTH OF TRAVERSE STA. \*E6-1'  
 F.C.C. B.M.#2 ELEV. 208.73  
 R.R. SPIKE IN C\*P\*10; 30' NORTH OF P.I. \*E6-3'



**DRAINAGE AREA MAP**  
 SCALE: 1" = 200'



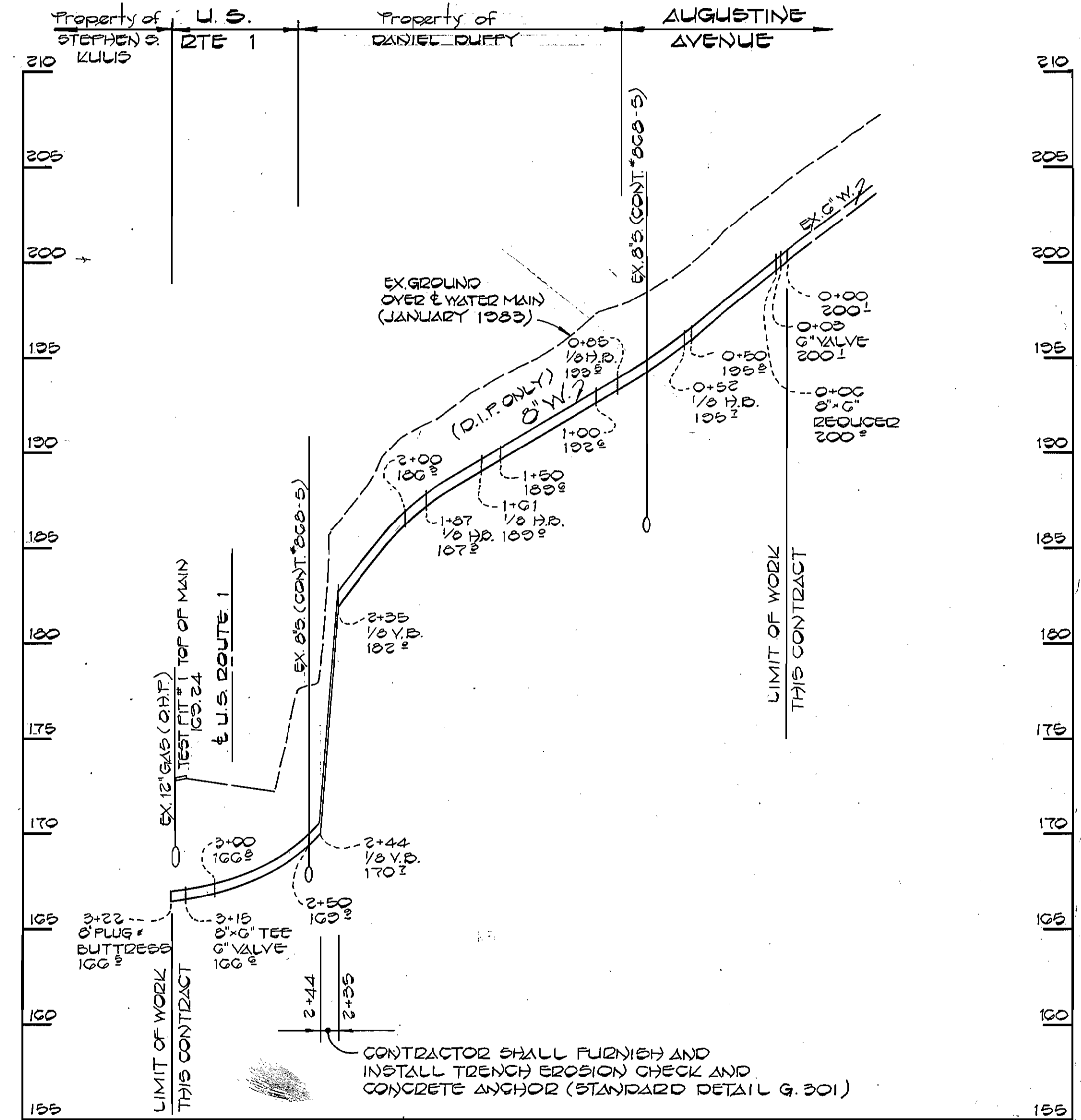
**PLAN**  
 1" = 30'

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 APPROVED: *G. Hagan* 5/4/83  
 U.S. SOIL CONSERVATION SERVICE DATE  
 THIS PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
 APPROVED: *Wm. Y. Rouse* 5/4/83  
 HOWARD SOIL CONSERVATION DISTRICT DATE

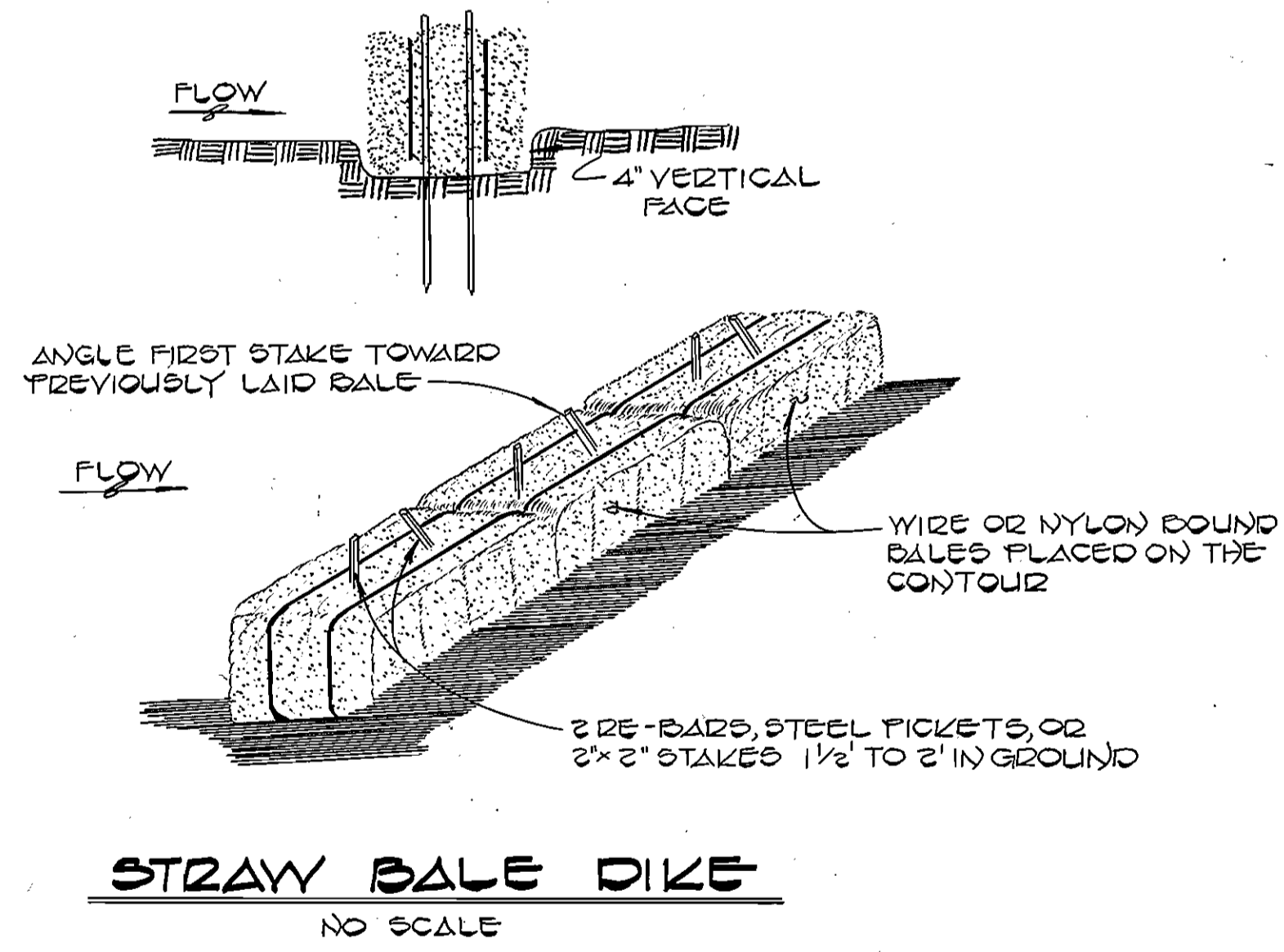
CONTRACT NO. 44-1100  
 CAPITAL PROJECT W-8137  
 ROUTE 1 WATER MAIN EXTENSION

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Reisinger</i> 5-9-83 DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF UTILITIES		FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 <i>Terrill A. Fisher</i> TERRILL A. FISHER DATE		DES: D.B.S. DRN: D.B.S. CHK: T.A.F. DATE: 1-31-83		PLAN WATER MAINS		ROUTE 1 WATER MAIN EXTENSION CAPITAL PROJECT NO. W-8137 CONTRACT NO. 44-1100 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		SCALE: AS SHOWN SHEET 2 OF 3
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FOR PLAN SEE SHEET 2 OF 3



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



CONTRACT NO. 44-1100  
CAPITAL PROJECT W-8137  
ROUTE 1 WATER MAIN EXTENSION

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

*John F. Neuma* 5-12-83  
DIRECTOR OF PUBLIC WORKS DATE

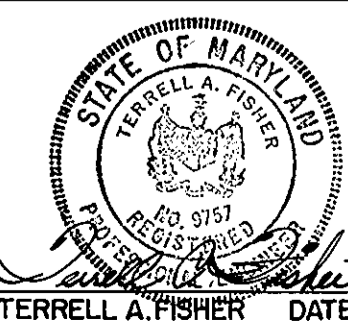
*Robert B. Bennett* 5-9-83  
CHIEF, BUREAU OF UTILITIES DATE

*William S. Riley* 5/15/83  
CHIEF, BUREAU OF ENGINEERING DATE

*Allen S. Brown* 5/4/83  
CHIEF, UTILITY DIVISION DATE

**FISHER, COLLINS AND CARTER, INC.**  
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043



DES: D.B.S.				
DRN: D.B.S.				
CHK: TAF				
DATE: 1-31-83				
BY	NO.	REVISION	DATE	

**PROFILE AND DETAILS**  
  
**WATER MAINS**

**ROUTE 1 WATER MAIN EXTENSION**  
CAPITAL PROJECT NO. W-8137  
CONTRACT NO. 44-1100  
FIRST ELECTION DISTRICT  
HOWARD COUNTY MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 3