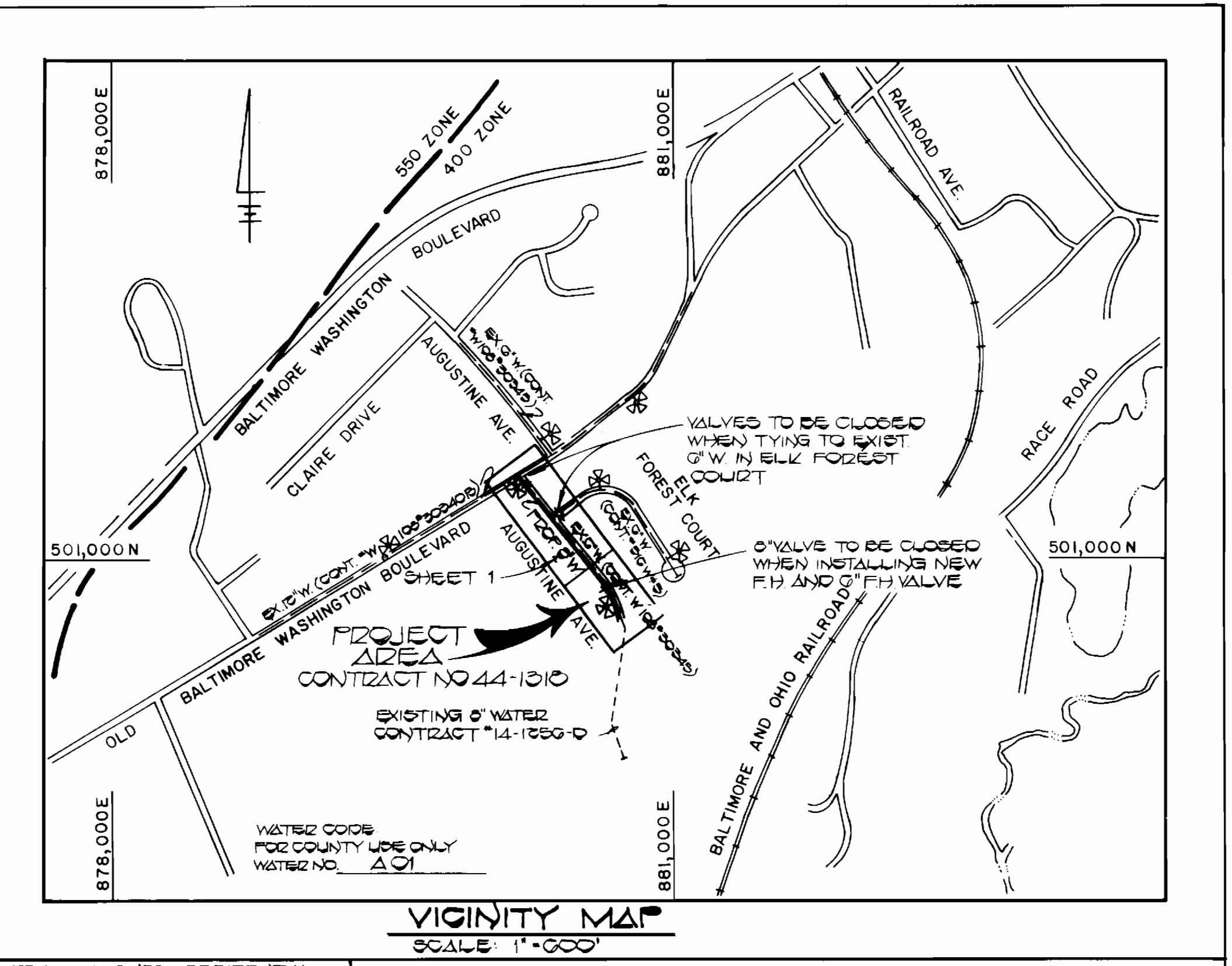


BENCH MARKS

- B.M. 'A-1' ELEV. 102.00
- 25' BAZ IN CONC. MON. FOUND. SE. SOUTHEAST OF P.I. 'B-00'
- B.M. 'A-2' ELEV. 109.10
- 2' 2" SPIRE SET IN G.H.S. POLE # 1007 INTERSECTION OF ELK FOREST COURT AND AUGUSTINE AVENUE
- B.M. 'A-3' ELEV. 107.00
- 25' BAZ IN CONC. MON. FOUND. SOUTHEAST LOT CORNER LOT 25 OF MOUNT AUGUSTINE SECTION 1 AREA 1



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.
- 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 A MINIMUM OF 6".

- 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 [] 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S 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. CONTRACTOR SERVICES 561-2585
 - BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL 234-5621
 - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING 298-9013
 - MISS UTILITY 1-550-0100
 - COLONIAL PIPELINE CO. 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
 - CHESAPEAKE & POTOMAC (C & P) TELEPHONE COMPANY 725-9976
- 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.
- 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 MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 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. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTIONS 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.
- 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 HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

QUANTITIES

ITEM	ESTIMATED	AS-BUILT	SUPPLIER
8-INCH WATER	000 LF	828 LF	BEULAH
6-INCH WATER	40 LF	49 LF	"
6-INCH VALVE	1 EA.	1 EA.	"
6-INCH VALVE	3 EA.	3 EA.	"
12" TS&V	1 EACH	1 EA.	"
3/4" W.H.C.	035 L.F.	11 UNITS	"
FIRE HYDRANT	1 EACH	1 EA.	"
AIR RELEASE VALVE & MANHOLE	1 EACH	1 EA.	"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 5-9-85

Chief, Bureau of Engineering: [Signature] DATE: 5/2/85

Chief, Bureau of Utilities: [Signature] DATE: 5/2/85

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

TERRELL A. FISHER DATE: 5/2/85

DES: P.W.K.
DRN: D.B.S.
CHK: T.A.F.

DATE: 5/2/85

BY: NO. REVISION DATE

PLAN, PROFILES AND DETAILS
WATER MAIN

600' SCALE MAP NO. 30 BLOCK NO.

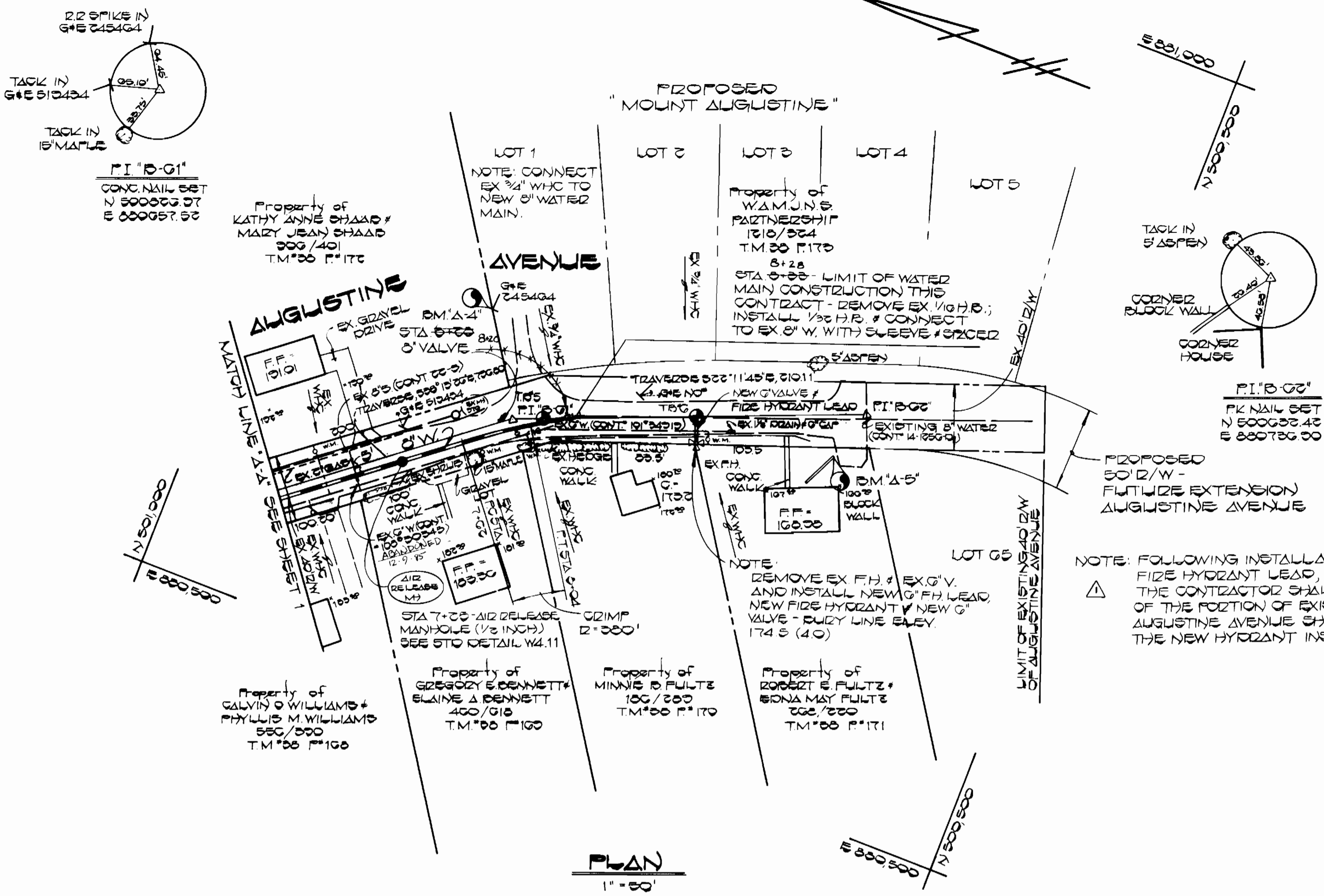
AUGUSTINE AVENUE
CAPITAL PROJECT W-8143
CONTRACT NO 44-1318
FIRST ELECTION DISTRICT
HOWARD COUNTY

SCALE AS SHOWN
SHEET 1 OF 3

AS-BUILT

BENCH MARKS

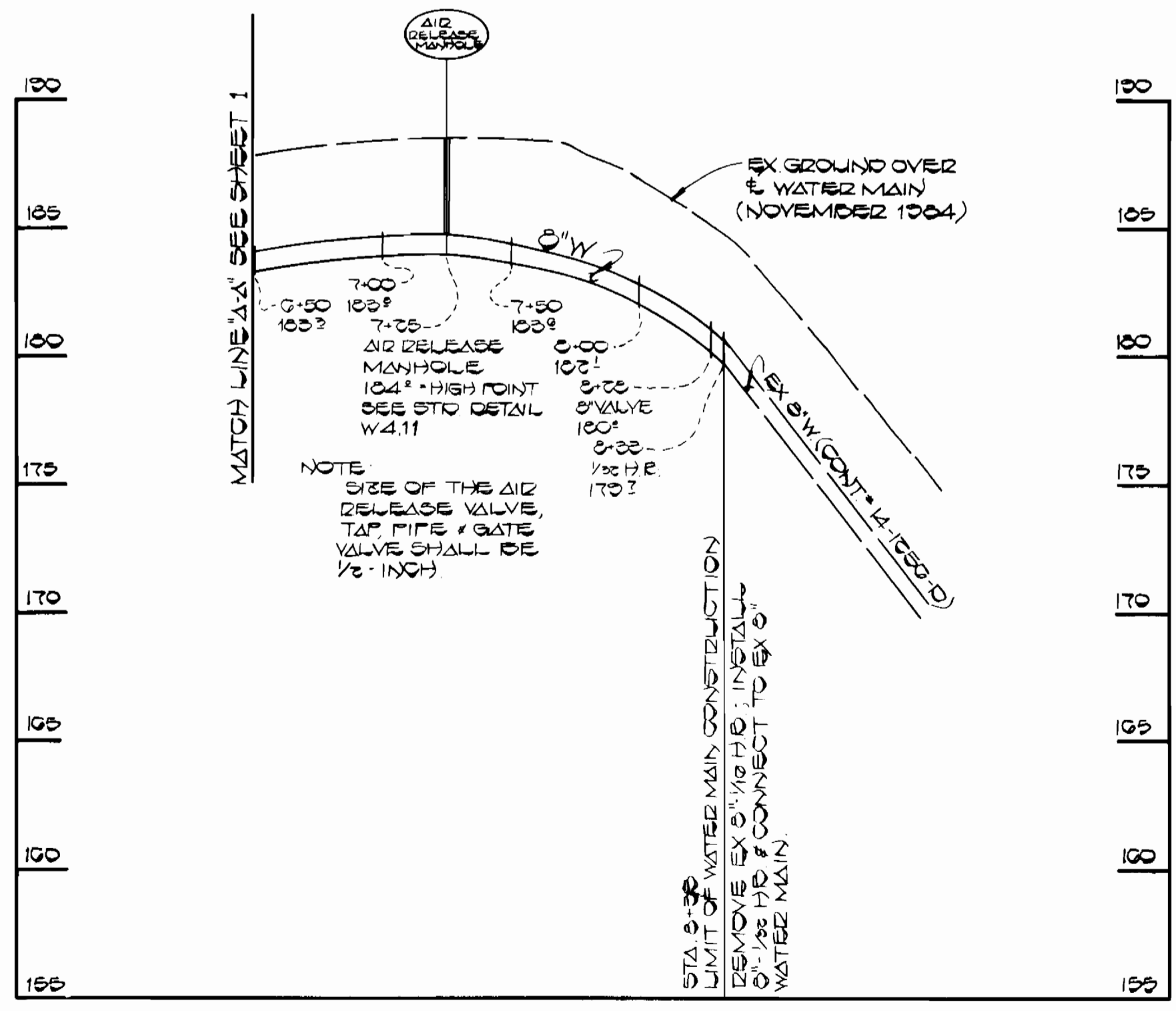
BM 'A-4' ELEV 191.07
 2.2' SPIKE SET IN G+S POLE #243494
 95' NORTHEAST OF PI 'B-01'
 BM 'A-5' ELEV 199.19
 BOX OUT * END OF MASONRY WALL
 30' NORTHWEST OF PI 'B-02'



PLAN
 1" = 50'

NOTE: FOLLOWING INSTALLATION OF THE NEW FIRE HYDRANT LEAD, HYDRANT AND G VALVE, THE CONTRACTOR SHALL PERFORM DISINFECTION OF THE PORTION OF EXISTING G MAIN IN AUGUSTINE AVENUE SHUT DOWN DURING THE NEW HYDRANT INSTALLATION

AUGUSTINE AVENUE



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

CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED 8-INCH WATER MAIN STA 0+00 TO STA 0+30. AT STA 0+41, INSTALL THE NEW G VALVE & PROVIDE A TEMPORARY PLUG. AT STA 0+65, ELK FOREST COURT, INSTALL THE NEW G VALVE & PROVIDE A TEMPORARY PLUG. THE EXISTING 8-INCH MAIN SHALL REMAIN IN SERVICE. AT STA 0+00, PROVIDE TEMPORARY PLUG ON G VALVE FOR TESTING.
2. FULL DISINFECTION AND PRESSURE TEST THE PROPOSED 8-INCH WATER MAIN. PLACE 8-INCH WATER MAIN IN SERVICE.
3. INSTALL NEW 3/4" WHC'S, CONNECT EXISTING SERVICES TO NEW 8-INCH MAIN AND MODIFY THE EXISTING WHC'S AND AFFILIANCES IN ACCORDANCE WITH THE LIST SHOWN ON THIS SHEET.
4. AT STA 0+00, ELK FOREST COURT, INSTALL NEW 8-INCH WATER MAIN AND CONNECT TO EXISTING 8-INCH WATER MAIN IN ELK FOREST COURT, IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET 1 OF 2.
5. AT THE INTERSECTION OF OLD WASHINGTON BOULEVARD & AUGUSTINE AVENUE, CLOSE VALVE # AT STA 0+30, REMOVE EX 1/2" H.R., INSTALL 1/2" H.R. & CONNECT TO EX 8" W (CONTRACT # 14-1250-10) WITH CUESSE AND SPACER.
6. AT STA 0+41, INSTALL NEW 8-INCH FIRE HYDRANT LEAD AND CONNECT TO EXISTING FIRE HYDRANT. EXISTING G FIRE HYDRANT VALVE SHALL BE REPLACED. EX HYDRANT SHALL REMAIN.
7. AT STA 0+30, CLOSE NEW G VALVE & INSTALL NEW FIRE HYDRANT AND G VALVE. AS SHOWN, DISINFECT PORTION OF EX MAIN SHUT DOWN DURING INSTALLATION.
8. REPAIR EXIST 8-INCH WATER MAIN IN AUGUSTINE AVENUE AND PROVIDE CONCRETE CAPS FOR ABANDONMENT OF MAIN.

LIST OF MODIFICATIONS TO EXISTING WHC'S & AFFILIANCES

PARCEL NO.	STREET ADDRESS	EFFECT REQUIRED
*104	5000	ABANDON * REMOVE EXISTING OUTSIDE METER VAULT
*105	5020	
*106	5050	INSTALL NEW 3/4" WHC, SEE DETAIL W 3.01
*107	5040	
*108	5055	
*109	5060	
*170	5000	INSTALL NEW 3/4" WHC & CONNECT TO EXISTING OUTSIDE METER IN METER VAULT
LOT 27	5045	INSTALL NEW 3/4" WHC & CONNECT TO EXISTING BALL VALVE CURB STOP
LOT 28	5051	
*172	5005	ABANDON * REMOVE EXISTING OUTSIDE METER VAULT, INSTALL NEW 3/4" WHC, SEE DETAIL W 3.01
LOT #1	OF PROPOSED MOUNT AUGUSTINE	CONNECT EX 3/4" WHC TO PROPOSED 8" WATER MAIN

NOTE: FOLLOWING REMOVAL OF THE OUTSIDE METER VAULTS, THE VAULTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR & SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

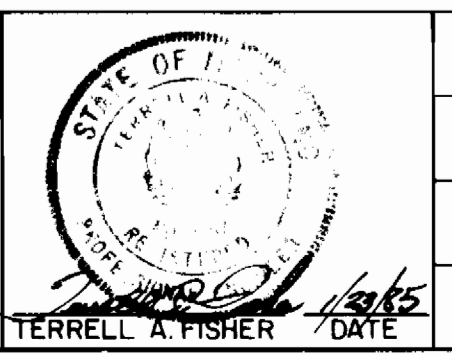
Henry F. Nemy
 DIRECTOR OF PUBLIC WORKS
 DATE 5-9-85

William E. Kelly
 CHIEF, BUREAU OF ENGINEERING
 DATE 5/12/85

Ruth Ann
 CHIEF, BUREAU OF UTILITIES
 DATE

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

TERRELL A. FISHER
 DATE 5/25/85



DES: P.W.K.	DATE: 5/25/85
DRN: D.B.S.	
CHK: T.A.F.	
BY: [Signature]	NO. []
DATE: 5/25/85	REVISION: []

PLAN, PROFILES AND DETAILS

WATER MAIN

600' SCALE MAP NO. 33 BLOCK NO. []

AUGUSTINE AVENUE
 CAPITAL PROJECT W-8143
 CONTRACT NO. 44-1318
 FIRST ELECTION DISTRICT
 HOWARD COUNTY

SCALE AS SHOWN
 SHEET 2 OF 2

ASBUILT