
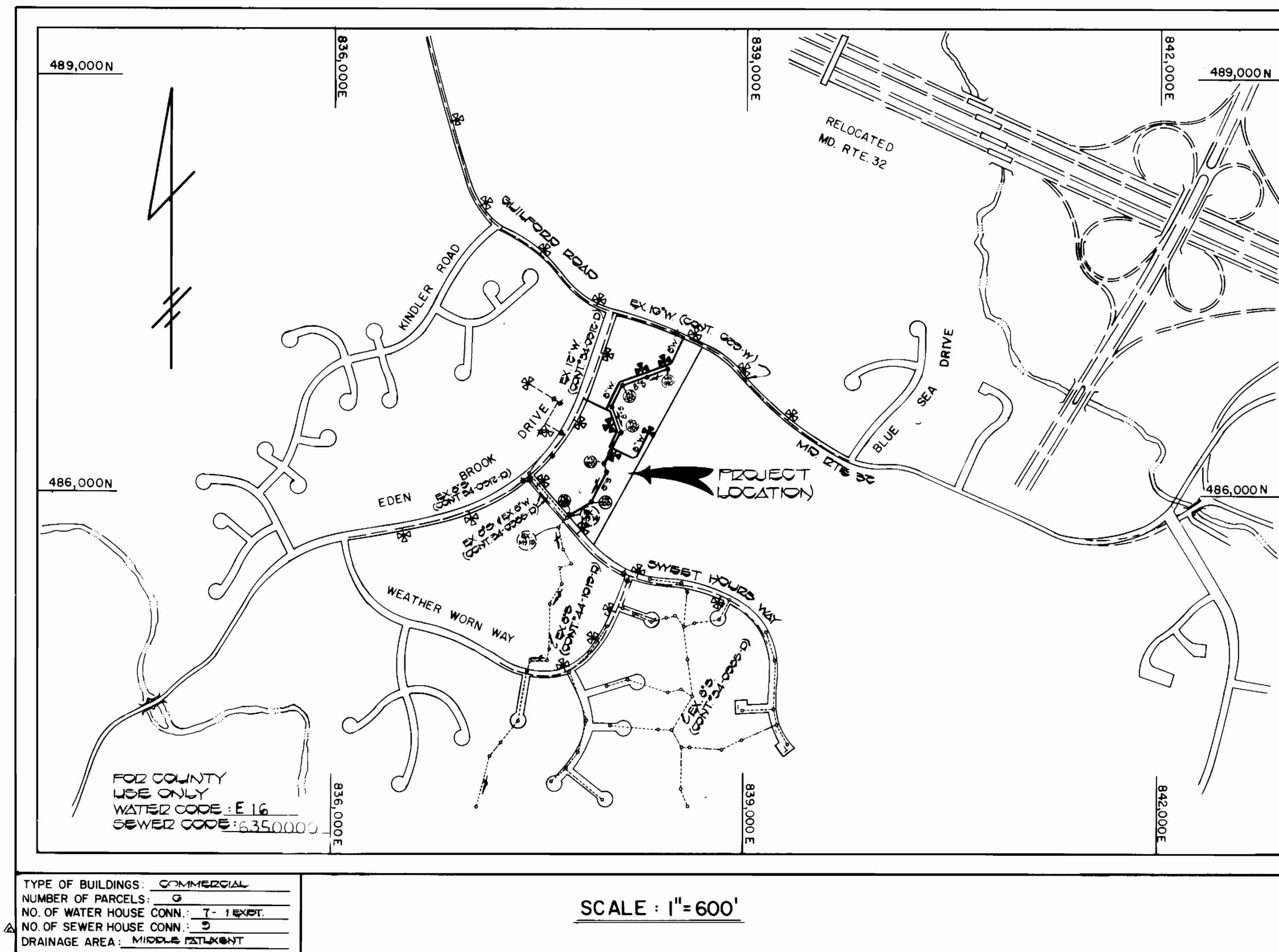


GENERAL NOTES

- 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. 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. 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 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - BALTIMORE GAS & ELECTRIC COMPANY- CONTRACTOR SERVICES: 561-2585
 - BALTIMORE GAS & ELECTRIC COMPANY- UNDER GROUND DAMAGE CONTROL: 234-5621
 - BALTIMORE GAS & ELECTRIC COMPANY- TROUBLE SHOOTING: 298-9013
 - "MISS UTILITY": 1-559-0100
 - CHESAPEAKE & POTOMAC TELEPHONE COMPANY: 725-9976
 - BUREAU OF UTILITIES - HOWARD COUNTY: 992-2366

- 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 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.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., P.V.C., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 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 SECTION 1003 AND 1008 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.
- WATER MAINS 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.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G5.1.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS STANDARD DETAIL G5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.
- 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
8" SEWER	1305 LF	1312.9 LF	Waterworks, Inc.
6" SEWER	170 LF	166 LF	" "
MANHOLES	9 EA.	9 EA.	Atlantic Corp.
8" WATER	1705 LF	1751 LF	Griffin Pipe
6" WATER	215 LF	183 LF	" "
FLYDR	5 EA.	5 EA.	Municipal & Cont.
8" VALVES	0 EA.	6 EA.	" "
6" VALVES EXCL. #810	5 EA.	5 EA.	" "
10" x 8" T.S. V	1 EA.	1 EA.	" "
12" x 8" T.S. V	1 EA.	1 EA.	" "
6" SEWER (D.I.P.)	100 LF	182 LF	C low



CONTRACT NO. 34-1319-D
SECTION 2 AREA 4
VILLAGE CENTER
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 15 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN GF 54-01

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
John M. Hester 5-3-85
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED:
Stephen L. Fisher 5/3/85
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
John F. Nimmy 5-1-85
 DIRECTOR OF PUBLIC WORKS DATE
Robert M. Beninger 5-4-85
 CHIEF, BUREAU OF UTILITIES DATE
William B. Rogers 5/1/85
 CHIEF, BUREAU OF ENGINEERING DATE
William B. Rogers 5/1/85
 CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS, AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
Terrell A. Fisher
 TERRELL A. FISHER DATE

DES. D.B.S.				
DRN. D.B.S.				
CHK. T.A.F.	2A1	Δ	REVISED NO. OF SHC	11/21/85
DATE: 2/15/85	005	Δ	REVISED QUANTITIES	0-24-85
BY NO.			REVISION	

TITLE SHEET

VILLAGE OF KINGS CONTRIVANCE
 SECTION 2 AREA 4
VILLAGE CENTER
 CONTRACT NO. 34-1319-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 1 OF 4

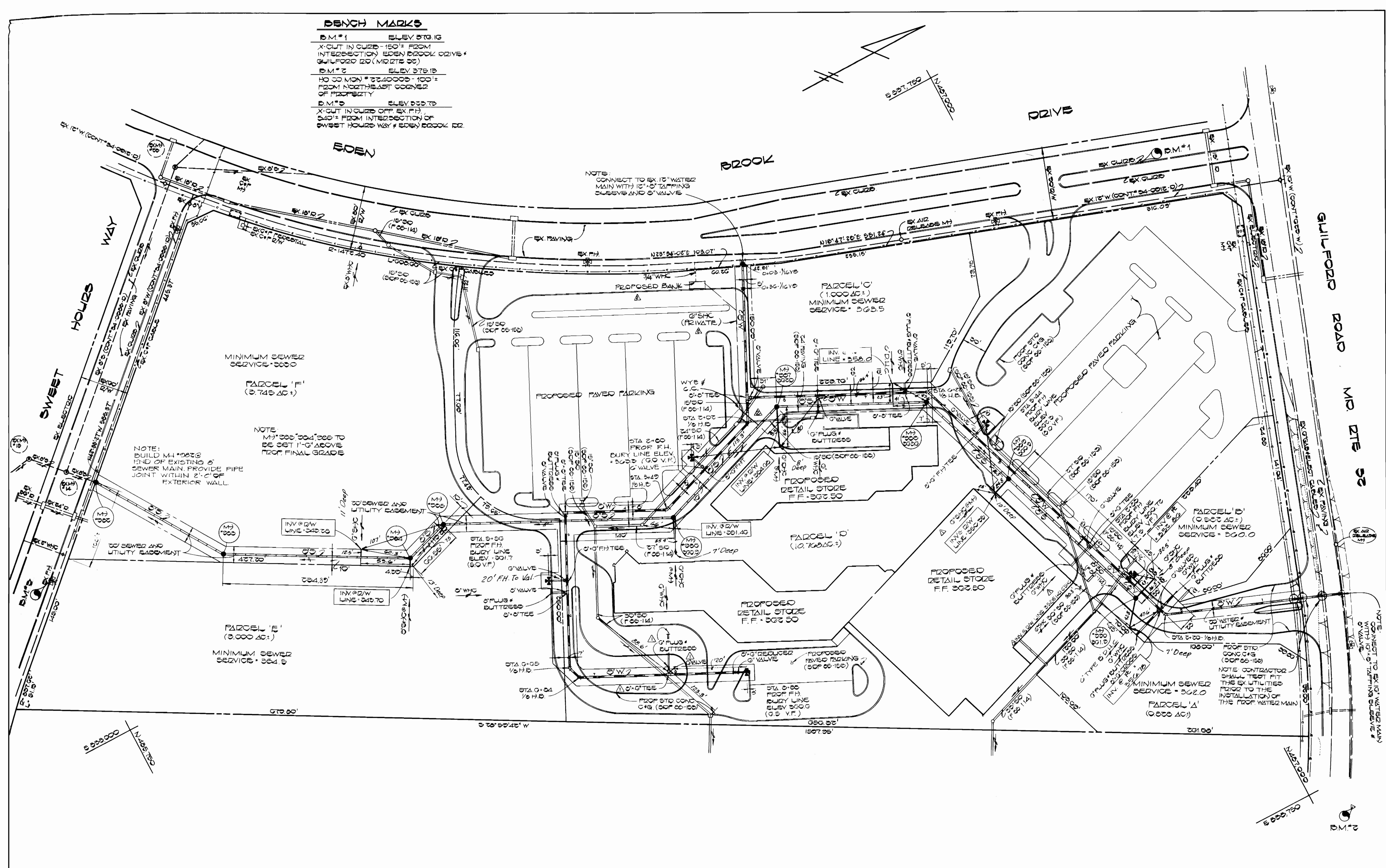
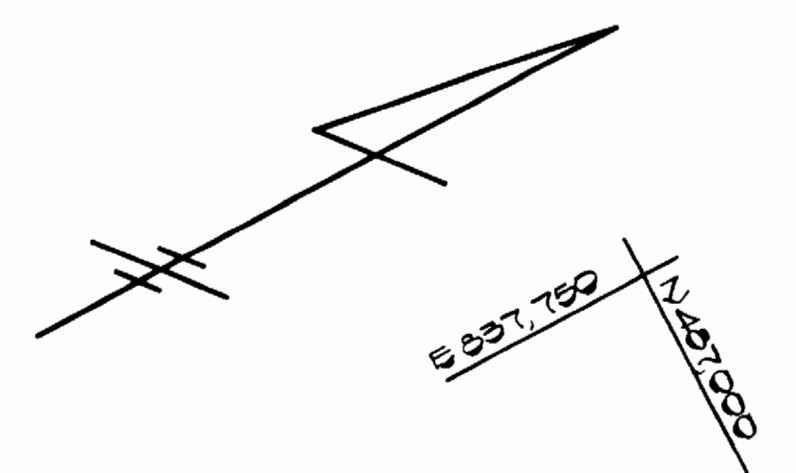
AS BUILT, SEPT. 10, 1985

BENCH MARKS

B.M.#1 ELEV 376.16
 X-CUT IN CURB 150'± FROM INTERSECTION EDEN BROOK DRIVE & GUILFORD RD. (M.D.T.S. 35)

B.M.#2 ELEV 376.18
 100'± MON. * 22.10000 - 100'± FROM NORTHEAST CORNER OF PROPERTY

B.M.#3 ELEV 363.73
 X-CUT IN CURB OFF EX. F.H. 540'± FROM INTERSECTION OF SWEET HOWLS WAY & EDEN BROOK RD.



NOTE: BUILD M4 * 300'S END OF EXISTING 6" SEWER MAIN. PROVIDE PIPE JOINT WITHIN 2'-0" OF EXTERIOR WALL.

NOTE: M4 * 300'S * 300'S TO BE SET 1'-0" ABOVE PROP. FINAL GRADE

NOTE: CONNECT TO EX. 12" WATER MAIN WITH 12"-0" TAPPING SLEEVES AND 0" VALVE

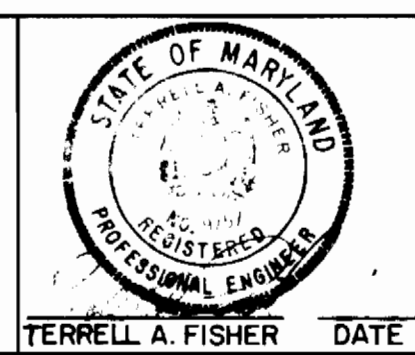
NOTE: CONNECT TO EX. 12" WATER MAIN WITH 12"-0" TAPPING SLEEVES & 0" VALVE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

5-1-85
 DATE

5-6-85
 DATE

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



DES:			
DRN-D.B.S.	P.A.I.	ADD 6" S.H.C. TO SEWER LINE BETWEEN M4 300 & M4 300	12/22/85
CHK-T.A.F.	D.V.P.	ADD P.C. STA 11+56 BETWEEN M4 986 & M4 987	9-22-85
		DELOCATE 6" S.H.C. TO M4 300, DELOCATED W.I.C. @ STA 3+47, REVIDE W.I.C. @ STA 3+70 TO STA 7+00	6-24-85
DATE: 4/25/85	BY NO.	REVISION	DATE

PLAN

WATER & SEWER MAINS

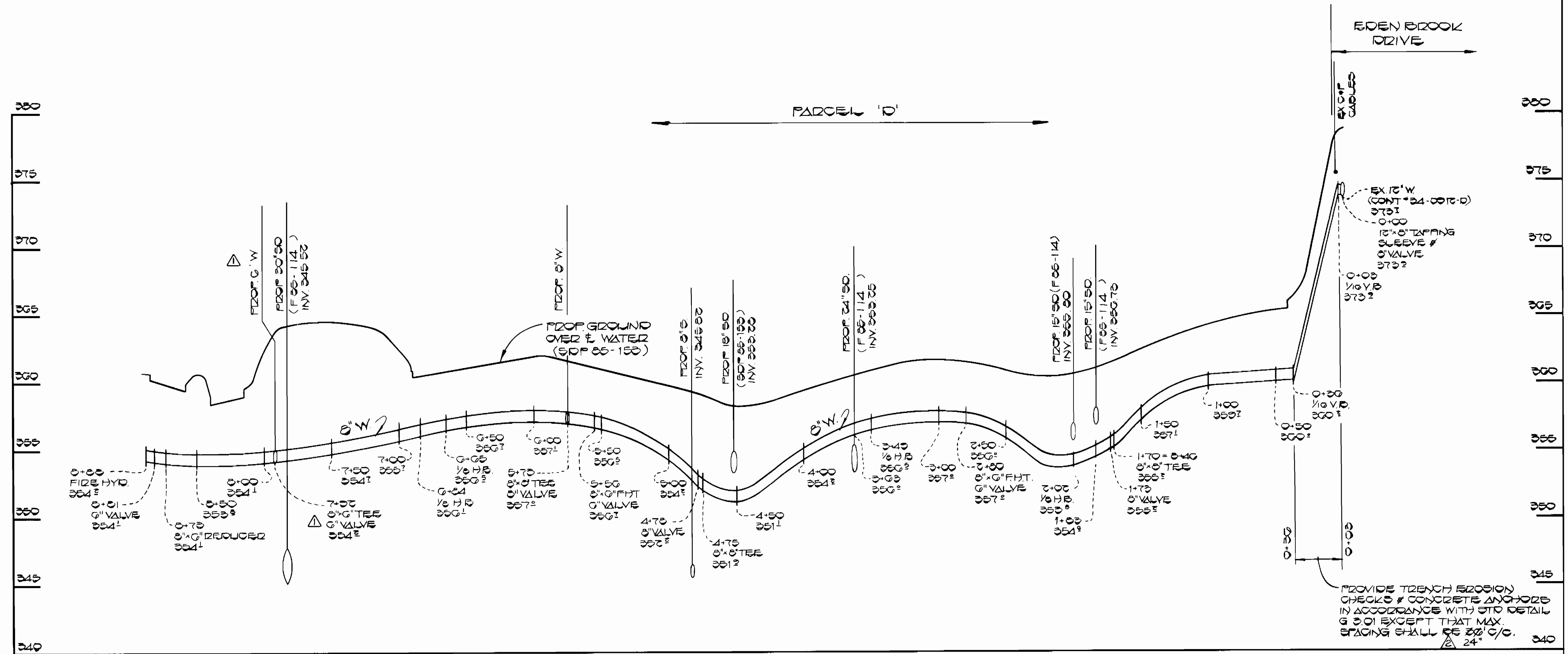
600' SCALE MAP NO. 48 BLOCK NO.

VILLAGE OF KINGS CONTRIVANCE
 SECTION 2 AREA 4
VILLAGE CENTER
 CONTRACT NO. 34-1319-D
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

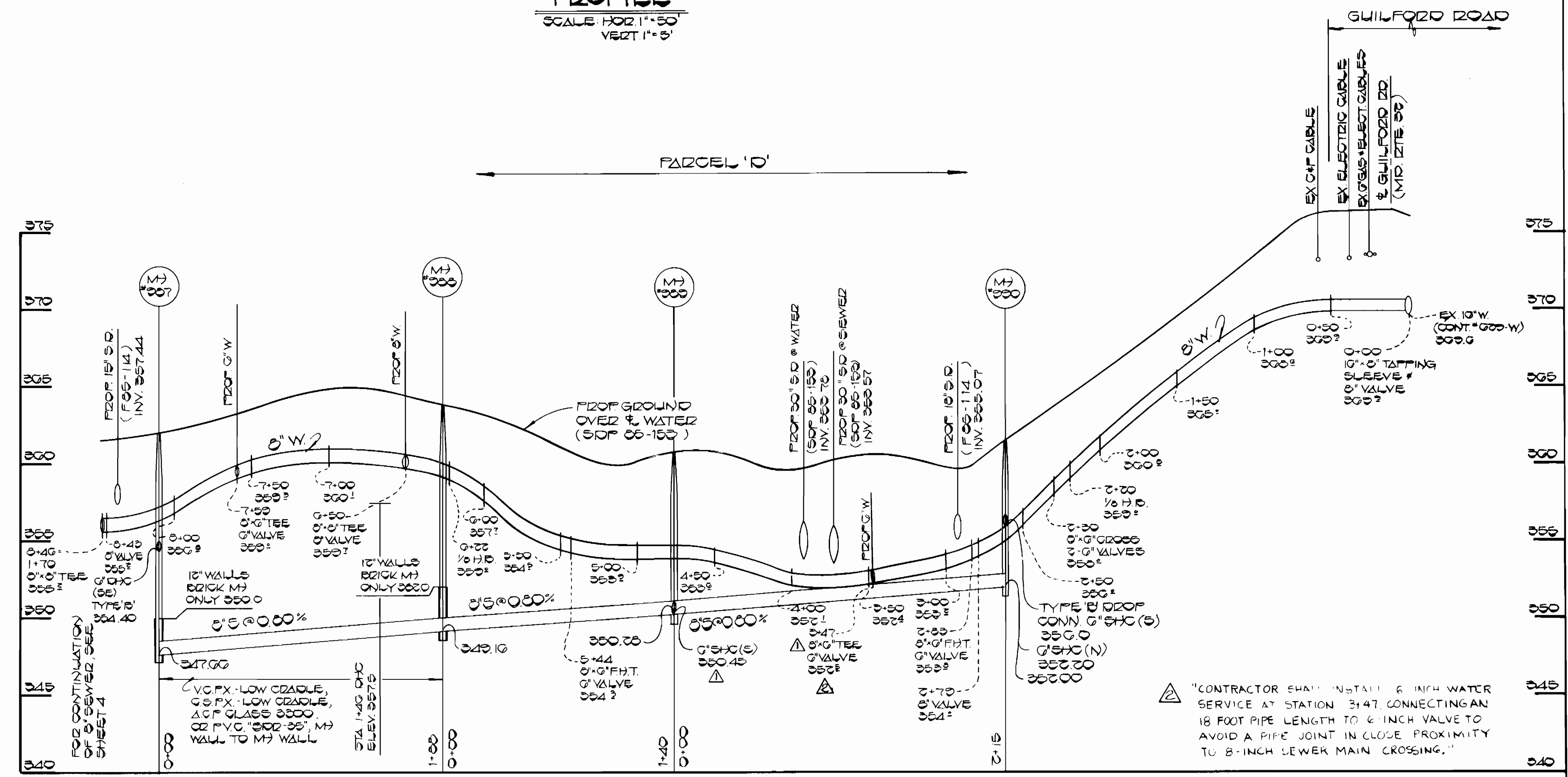
SCALE AS SHOWN

SHEET 5 OF 4

AS BUILT - SEPT. 10, 1985



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



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

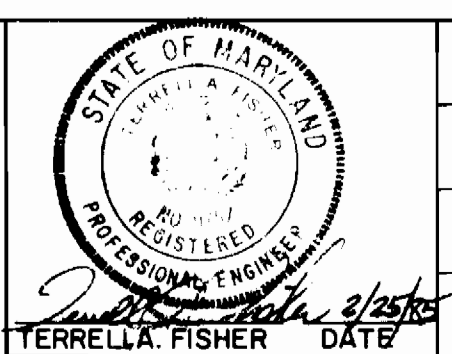
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Bauman
DIRECTOR OF PUBLIC WORKS
DATE: 5-16-85

Michael J. Fisher
CHIEF, BUREAU OF ENGINEERING
DATE: 5-16-85

Michael J. Fisher
CHIEF, LAND DEVELOPMENT DIVISION
DATE: 5-16-85

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



DES:					
DRN: D.B.S.	D.V.P.	REVISION	DATE	BY	NO.
CHK: T.A.F.	D.B.S.	REVISE TRENCH EROSION CHECK SPACING FROM 36' TO 24'. ADD PIPE LENGTH NOTE FOR 6" WHICH @ STA 3+47.	7-5-85		
DATE:		REVISE WATER CONN. DISE @ STA 7+32, DELEGATE 6" SHC @ M1 @ 300' WATER CONN @ STA 3+47	6-24-86		

PROFILES
WATER & SEWER MAINS

600' SCALE MAP NO. 45 BLOCK NO.

VILLAGE OF KINGS CONTRIVANCE
SECTION 2 AREA 4
VILLAGE CENTER
CONTRACT NO. 34-1319-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 4

