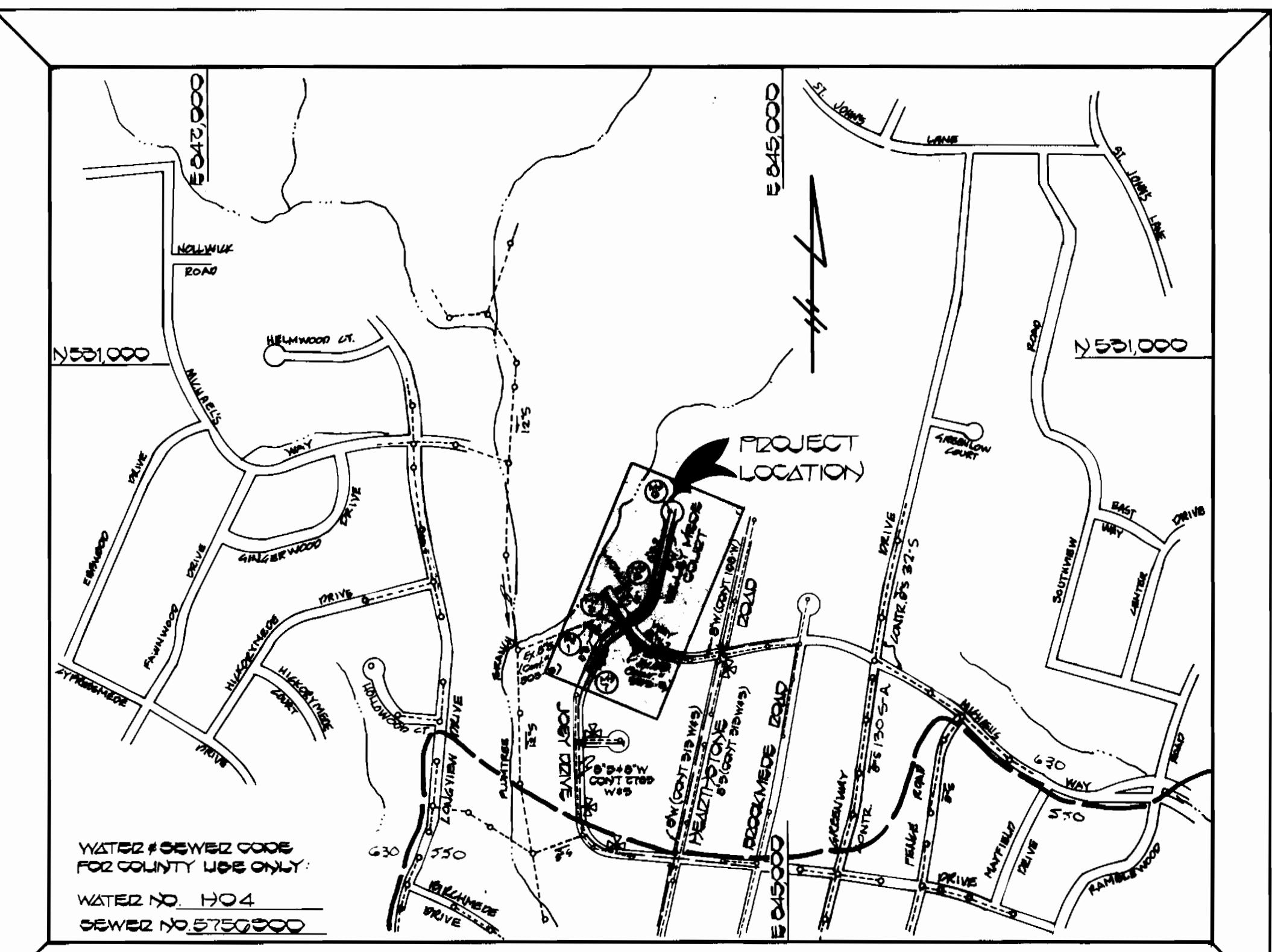


BENCH MARKS
 B.M.#1 ELEV. 399.20
 X-CUT IN ZIM OF EX. CAN.
 M#4000



TYPE OF BUILDINGS: RESIDENTIAL
 NUMBER OF LOTS: 30 (25 BUILDABLE)
 NUMBER OF WATER HOUSE CONN.: 22
 NUMBER OF SEWER HOUSE CONN.: 22
 DRAINAGE AREA: LITTLE PATENT

VICINITY MAP
 SCALE 1"=600'
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 UTILITY 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 TO 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., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. 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. CLASS 80 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 DETAIL. 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. (STD. DETAIL W.3.21).
- 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 G.5.1.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS STANDARD DETAIL G.5.2 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 II, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME II 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 PROVIDED FOR ON THE DRAWINGS.

SEWER HOUSE CONNECTION
 INVERT ELEVATIONS AT PROPERTY LINE

STATION	LOT	ELEV.
M#2 TO M#7		
M#2 LT	LOT 3	396.00
0+00 LT	LOT 4	393.04
1+00 RT	LOT 4	394.30
M#7 LT	LOT 6	397.10
M#7 RT	LOT 6	396.02
M#2 TO M#3		
M#2 RT	LOT 3	396.00
M#3 TO M#4		
1+15 LT	LOT 3	396.00
1+30 LT	LOT 12	390.46
M#4 TO M#5		
0+10 RT	LOT 13	397.00
0+30 LT	LOT 13	399.74
M#5 TO M#6		
0+57 RT	LOT 14	400.64
0+74 LT	LOT 14	401.00
1+00 LT	LOT 15	404.00
1+70 RT	LOT 15	407.64
2+00 LT	LOT 16	400.00
2+50 LT	LOT 16 (1X)	396.50
3+16 RT	LOT 16 (1X)	397.49
3+57 LT	LOT 16 (1X)	396.07
M#6	LOT 20	397.41
M#1 TO M#2		
0+10 LT	LOT 10	396.00
0+30 RT	LOT 9	396.07
EX. M#2557 TO EX. M#4350		
0+50 RT	LOT 6 (1X)	393.74
1+10 LT	LOT 30 (1X)	394.70
1+50 RT	LOT 1 (1X)	395.41
M#1 TO EX. M#		
0+37 RT	LOT 11	396.14
M#6 TO STOPPER		
0+29 RT	LOT 21	396.05
0+32 LT	LOT 20	396.05

Property of
 TARTAN DEVELOPMENT
 OF MARYLAND
 1980 / 554

FUTURE
 VALLEY MEDE
 SEC 13 AREA C

- NOTES**
- CONTRACTOR SHALL BUILD M#3 OVER EX. S' SEWER MAIN, PLUG AND ABANDON EX. S' SEWER MAIN WEST OF M#3.
 - CONTRACTOR SHALL BUILD M#1 OVER EX. S' SEWER MAIN, PLUG AND ABANDON EX. S' SEWER MAIN NORTH OF M#1.
 - EX. D/W FOR A SEWER MAIN THROUGH LOT 10 TO BE ABANDONED BY RECONSTRUCTION OF THAT

MANHOLE TABLE

NO.	INVERT STA.	OUT.	ZIM	SLOPE
7	10+50	11' LT	400.01	1:2.7%
3	14+50	7' LT	396.51	1:1.00%
4	10+55	4' LT	400.15	1:5.5%
5	17+00	7' LT	400.50	1:3.7%
6	COURT	---	400.00	---
7	11+50	10' LT	400.00	1:2.3%

- QUANTITIES**
- | ITEM | EST'D | AS-BUILT | SUPPLIED |
|--------------|-----------|----------|----------|
| 8" SEWER | 1121 L.F. | 1104 | |
| 6" SEWER | 605 L.F. | 781 | |
| MANHOLES | 7 EA. | 7 | |
| 6" WATER | 410 L.F. | 1446 | |
| 6" WATER | 307 L.F. | 319 | |
| FIRE HYD. | 3 EA. | 3 | |
| 1" W/H | 200 L.F. | 158 | |
| 3/4" W/H | 300 L.F. | 351 | |
| VALVES | 4 EA. | 4 | |
| 1/2" BLOWOFF | 1 EA. | 1 | |
| 6" SADDLES | 4 EA. | 4 | |

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 15 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING & SEDIMENT CONTROL PLAN F85-172

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John W. Miller 11-25-85
 U.S. SOIL CONSERVATION SERVICE DATE

CONTRACT NO. 24-1389-D
 VALLEY MEDE
 SECTION 13 AREA I
 WATER AND SEWER EXTENSION
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

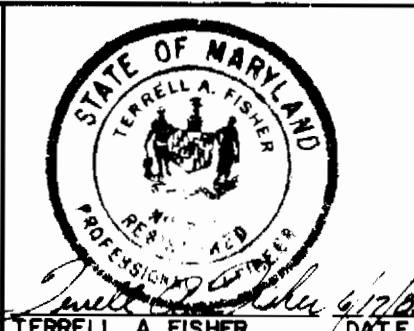
John F. Neenan 11-18-85
 DIRECTOR OF PUBLIC WORKS DATE

Ruth Beiner 11-26-85
 CHIEF, BUREAU OF UTILITIES DATE

Mark F. Fisher 11-27-85
 CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 461-2855



DES: P.D.S. AM.V. ADD 36 L.F. OF 8" SEWER AT M#6 11/21/85

DRN: P.D.S.

CHK: T.A.F.

DATE: BY NO. REVISION DATE

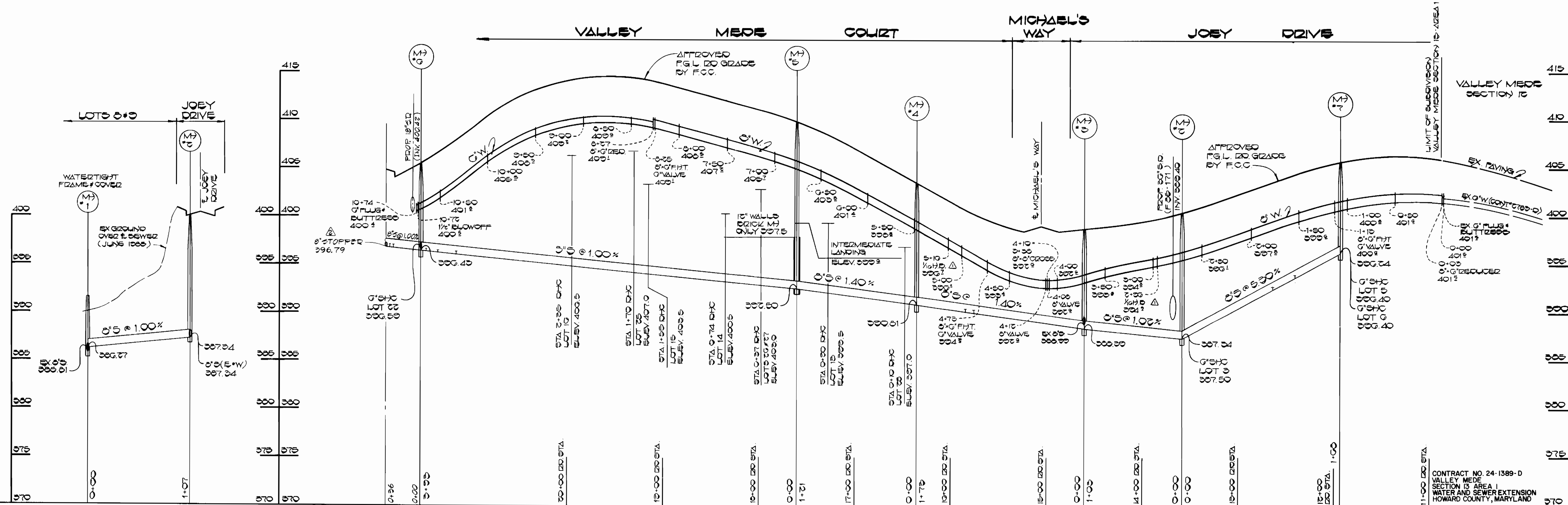
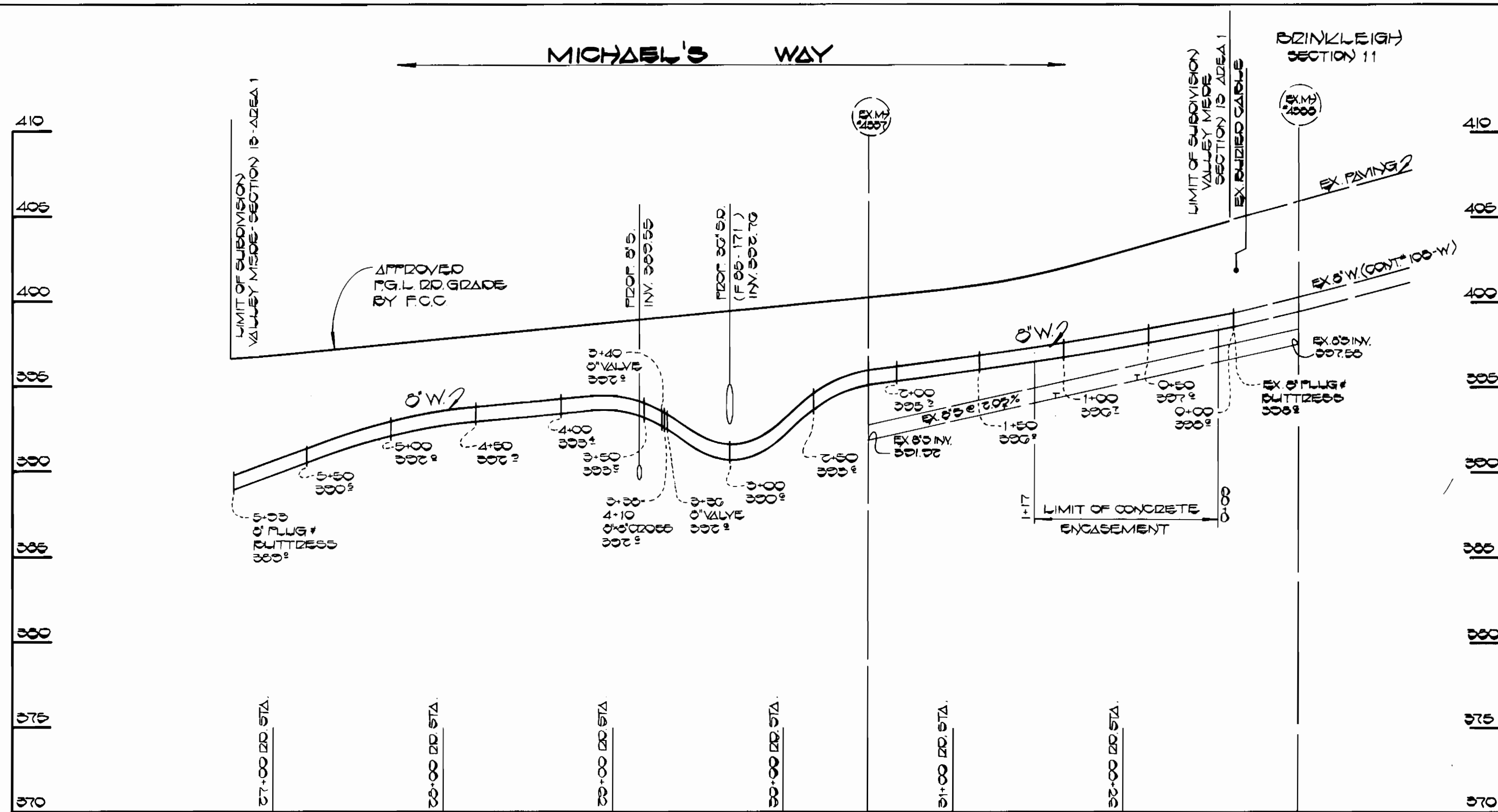
PLAN
WATER & SEWER MAINS

APPROVED: *John W. Miller* 11/25/85
 HOWARD SOIL CONSERVATION DISTRICT DATE

VALLEY MEDE
SECTION 13 AREA I
CONTRACT NO. 24-1389-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

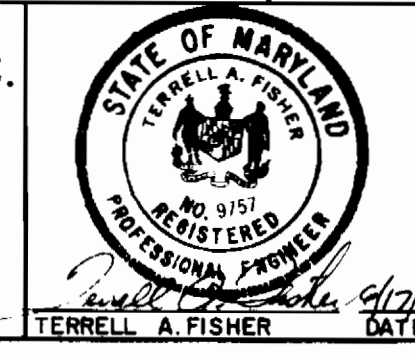
SCALE AS SHOWN

SHEET 1 OF 2



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS: [Signature]
 CHIEF, BUREAU OF UTILITIES: [Signature]
 DATE: 11-26-85

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 461-2855



DES: D.C.C.	DATE:
DRN: D.C.C.	DATE:
CHK: T.A.F.	DATE:
BY: [Signature]	DATE:
NO.:	REVISION:
NO.:	REVISION:

PROFILES
WATER & SEWERS MAINS
 600' SCALE MAP NO. 17 BLOCK NO. 9

VALLEY MEDE
 SECTION 12 AREA 1
 CONTRACT NO. 24-1389-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: HOR: 1"=50' VERT: 1"=5'
 SHEET 2 OF 2