

**BENCH MARKS**

B.M. #1 ELEV. 364.50  
 IRON PIPE SET 20' NORTHEAST OF EX SAN M. # 7617. (TRAVERSE STA. "B-20")  
 B.M. #2 ELEV. 401.27  
 IRON PIPE SET 25' SOUTHEAST OF EX SAN M. # 7664. (TRAVERSE STA. "B-18")  
 B.M. #3 ELEV. 342.66  
 IRON PIPE SET 70' NORTHWEST OF TPOF CORNER OF LOT 22 # 25 (TRAVERSE STA. "B-5")

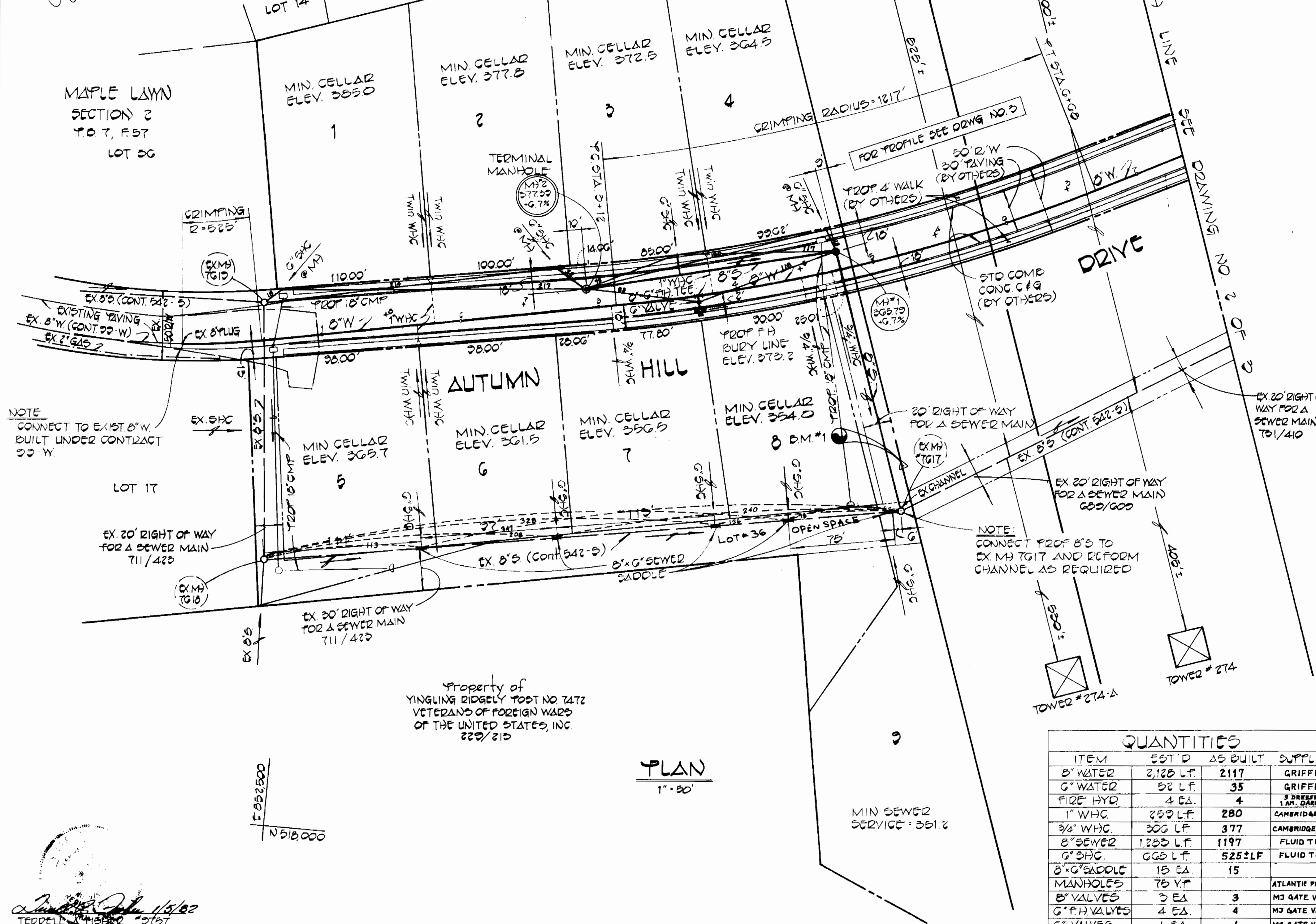
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED:

*William J. Lane* 3-17-82  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THESE SPECIFICATIONS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN T-02-51

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*Jay K. Koch* 3-17-82  
 U.S. SOIL CONSERVATION SERVICE DATE

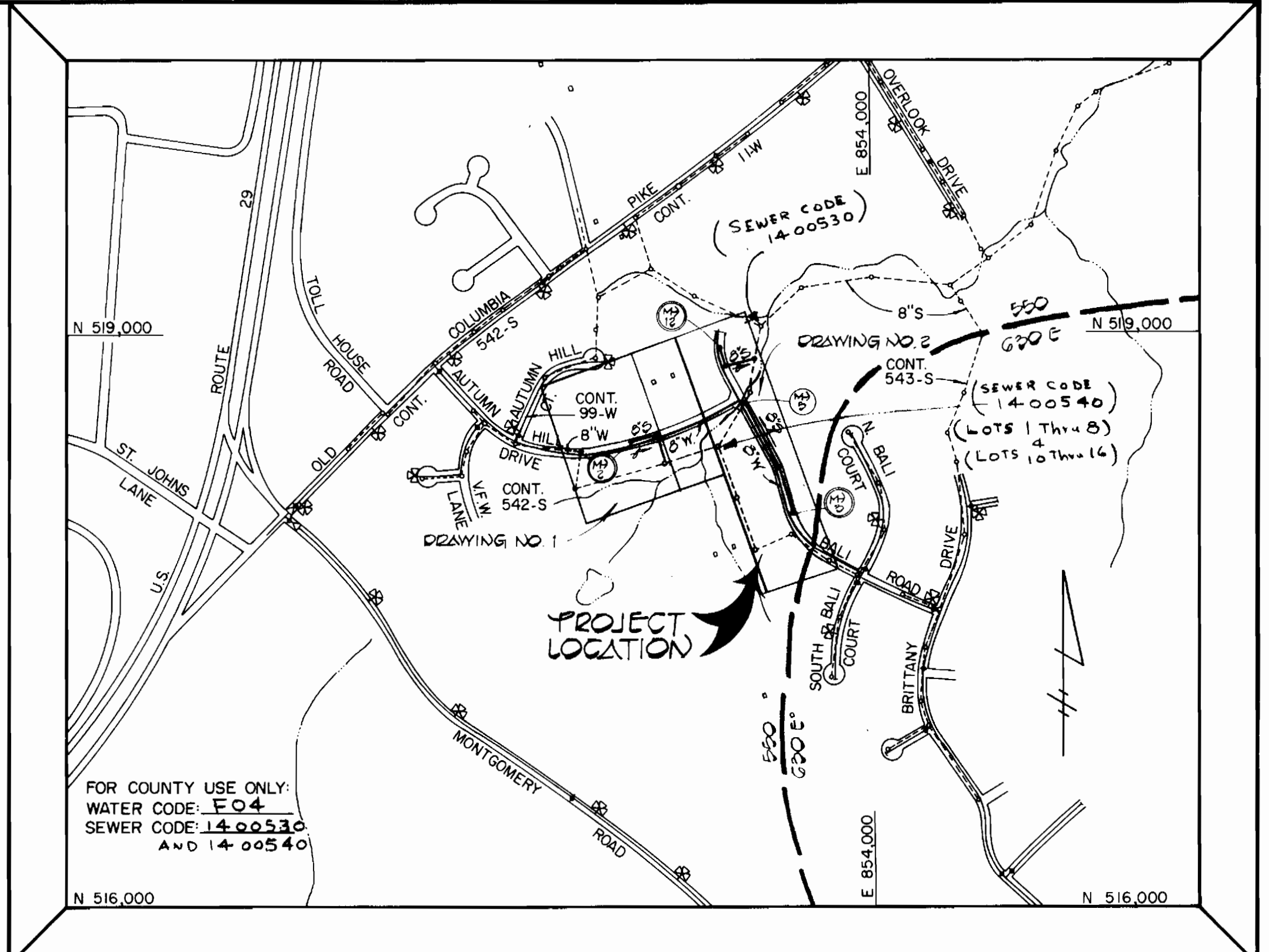


NOTE: CONNECT TO EXIST 8" W. BUILT UNDER CONTRACT 22-W

NOTE: CONNECT PROF. 8" TO EX M. # 7617 AND REFORM CHANNEL AS REQUIRED

Property of YINGLING RIDGELY TPOF NO 1472 VETERANS OF FOREIGN WARS OF THE UNITED STATES, INC 222/210

**PLAN**  
 1" = 80'



TYPE OF BUILDING: SINGLE FAMILY DWELLING  
 TOTAL NUMBER OF LOTS: 36  
 NUMBER OF WATER HOUSE CONNECTIONS: 33  
 NUMBER OF SEWER HOUSE CONNECTIONS: 33  
 DRAINAGE AREA: PATAPSCO

**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 CONTRACTORS 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. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION AND BACKFILL.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
- FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
- 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - 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)
- 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 EXCAVATION & BACKFILL.
- 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 MAINS TO BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 4'-0" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- BLOCK ALL FITTINGS WITH CONCRETE.
- 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 5-15 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.
- ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- WATER MAIN AND WATERHOUSE 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.

**QUANTITIES**

ITEM	EST'D	AS BUILT	SUPPLIER
8" WATER	2,120 LF	2,117	GRIFFIN
6" WATER	52 LF	35	GRIFFIN
FIRE HYD	4 EA.	4	3 PRESSURE 1.5" BORE
1" WHC	250 LF	280	CAMBRIDGE/LEE
3/4" WHC	300 LF	377	CAMBRIDGE/LEE
8" SEWER	1,200 LF	1,197	FLUID TITE
6" SHC	660 LF	525 LF	FLUID TITE
8" G SADDLE	15 EA.	15	
MANHOLES	75 Y.F.		ATLANTIC PRECAST
8" VALVES	3 EA.	3	MJ GATE VALVES
6" F.H. VALVES	4 EA.	4	MJ GATE VALVES
6" VALVES	1 EA.	1	MJ GATE VALVES

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *Walter F. Nunn* 3-23-82  
 Chief, Bureau of Engineering: *William J. Lane* 3/22/82  
 Chief, Bureau of Utilities: *John M. Reinger* 3-19-82  
 Chief, Land Development Division: *William J. Lane* 3-22-82

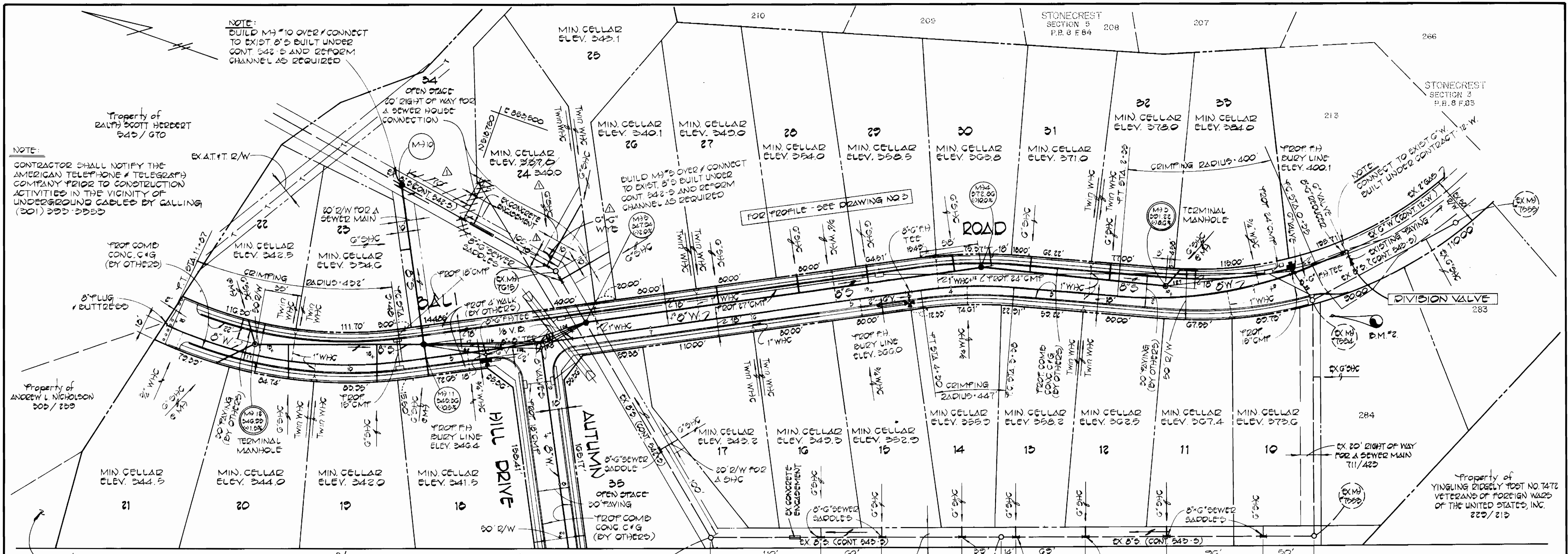
**FISHER, COLLINS AND CARTER, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043

CONTRACT NO. 14-1047-D

PLAN  
 WATER AND SEWER MAINS

TAYLOR PROPERTY  
 SECTION ONE  
 ELECTION DISTRICT 2  
 HOWARD COUNTY, MARYLAND

DRAWING NO. 1 OF 3  
 SCALE AS SHOWN  
 DES. D.B.S.  
 DRN. D.B.S.  
 CHK. T.A.F.



NOTE:  
CONTRACTOR SHALL NOTIFY THE AMERICAN TELEPHONE & TELEGRAPH COMPANY PRIOR TO CONSTRUCTION ACTIVITIES IN THE VICINITY OF UNDERGROUND CABLES BY CALLING (301) 293-2853

NOTE:  
BUILD M-10 OVER / CONNECT TO EXIST. 8" BUILT UNDER CONT. 842-S AND REFORM CHANNEL AS REQUIRED

BUILD M-10 OVER / CONNECT TO EXIST. 8" BUILT UNDER CONT. 842-S AND REFORM CHANNEL AS REQUIRED

NOTE:  
CONNECT TO EXIST. G.W. BUILT UNDER CONTRACT 12-W.

Property of BALTIMORE GAS & ELECTRIC CO. 222/222

MATCH LINE DRAWING NO. 1

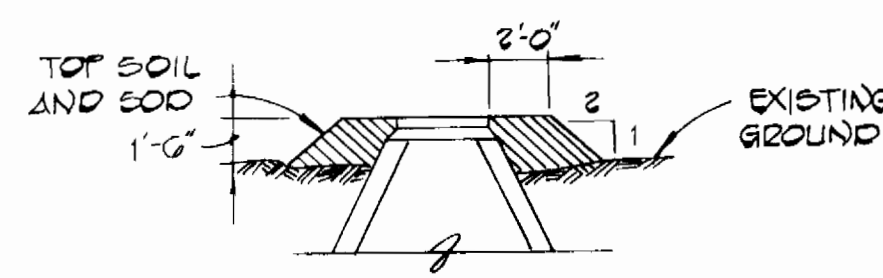
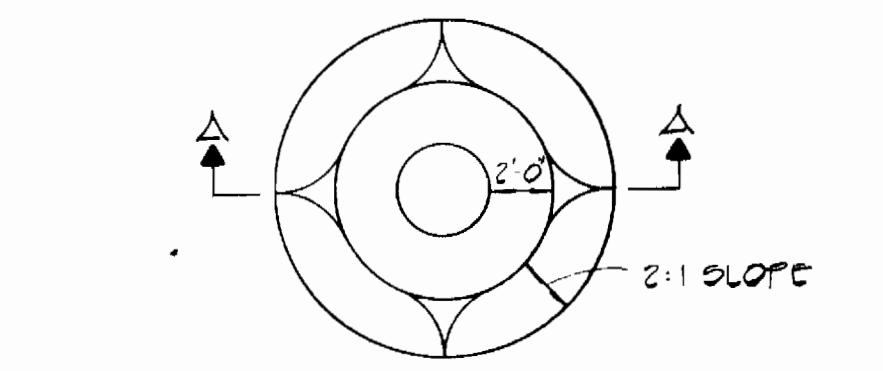
TERRELL A FISHER 3-23-82  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Director of Public Works: *John F. Neumann* 3-23-82  
Chief, Bureau of Engineering: *Robert M. Reinger* 3-24-82  
Chief, Land Development Division: *Robert M. Reinger* 3-24-82

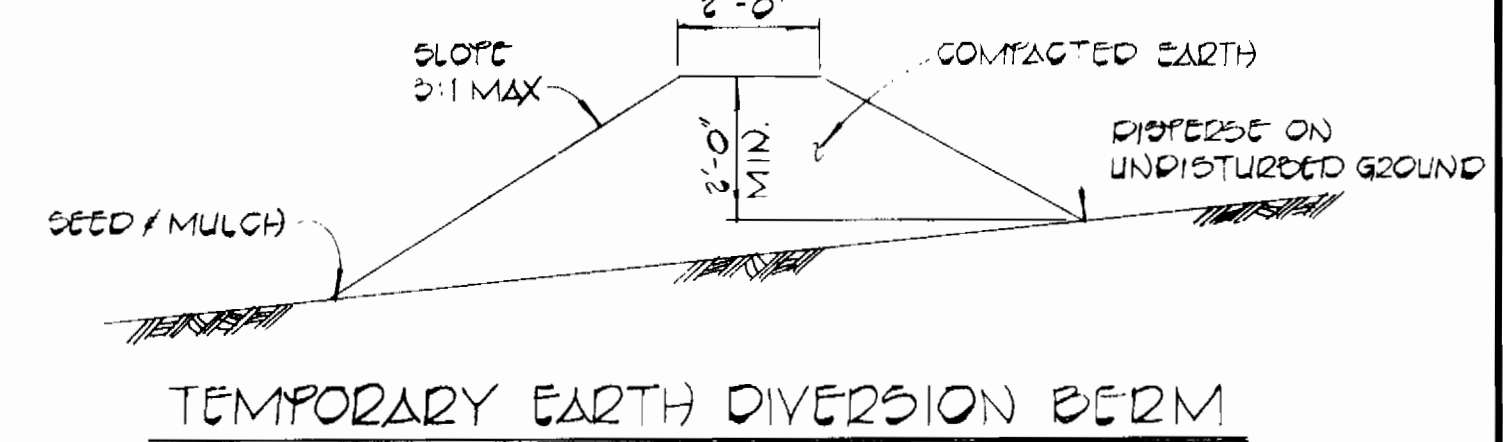
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CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043

NO.	DATE	DESCRIPTION
1	7-29-82	REVISE LOCATION OF SHC LOT 24 AND REVISE MIN. CELLAR ELEV. FROM 337.0 TO 340.0

CONTRACT NO. 14-1047-D



SECTION A-A  
FILL AT MANHOLE "10"  
NO SCALE



TEMPORARY EARTH DIVERSION BERM  
DIVERSION BERMS ARE REQUIRED EVERY 250 FEET ON CONTINUOUS SLOPES OF 4% OR GREATER. THE BERMS SHALL CONFORM TO THE TYPICAL SECTION SHOWN HEREON AND SHALL BE CONSTRUCTED ACROSS THE CONSTRUCTION AREA IMMEDIATELY AFTER THE BACKFILLING OF THE TRENCH AND PRIOR TO FLAGGING STABILIZATION IN ORDER TO PREVENT EROSION OF THE BACKFILLED AREA.

CONTRACT NO. 14-1047-D  
TAYLOR PROPERTY  
WATER AND SEWER  
EXTENSION  
HOWARD COUNTY, MD.

DRAWING NO. 2 OF 3  
SCALE AS SHOWN  
DES: DBS  
DRN: DBS  
CHK: T.A.F.

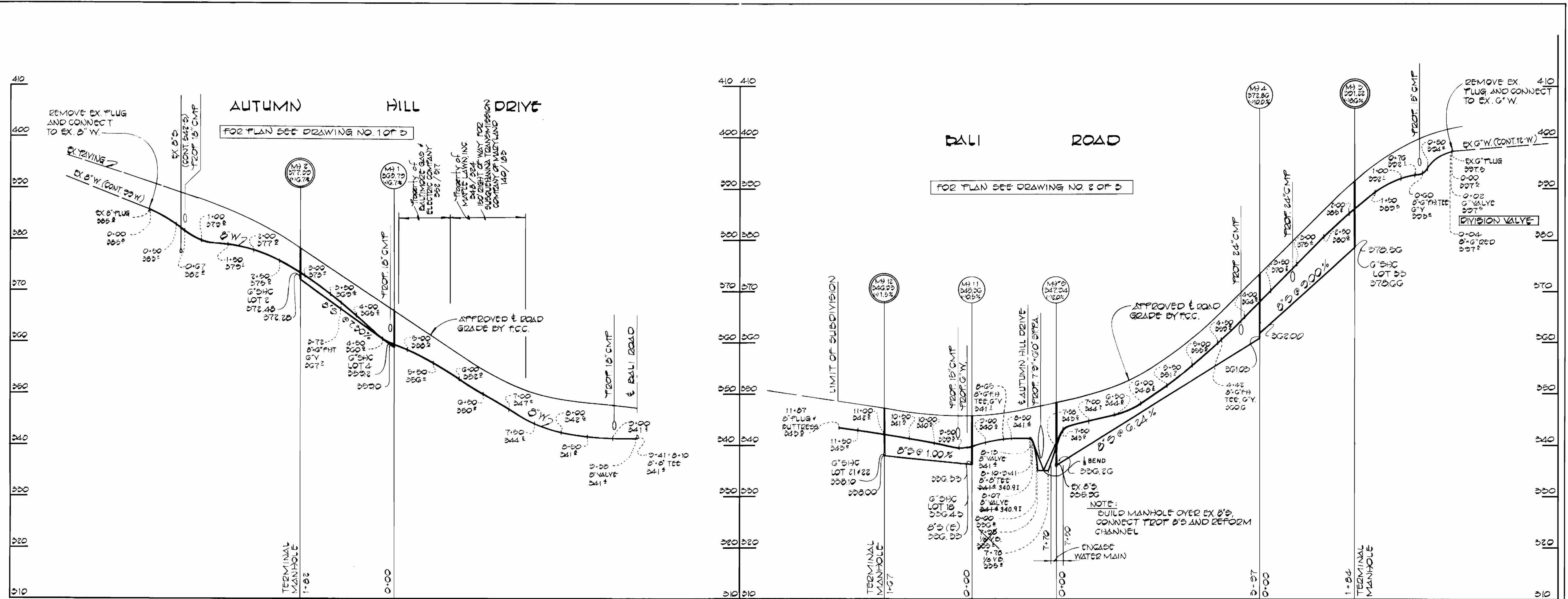
TAYLOR PROPERTY  
SECTION ONE  
ELECTION DISTRICT 2  
HOWARD COUNTY, MARYLAND

PLAN  
WATER AND SEWER MAINS

AS-BUILT JULY 31, 1984

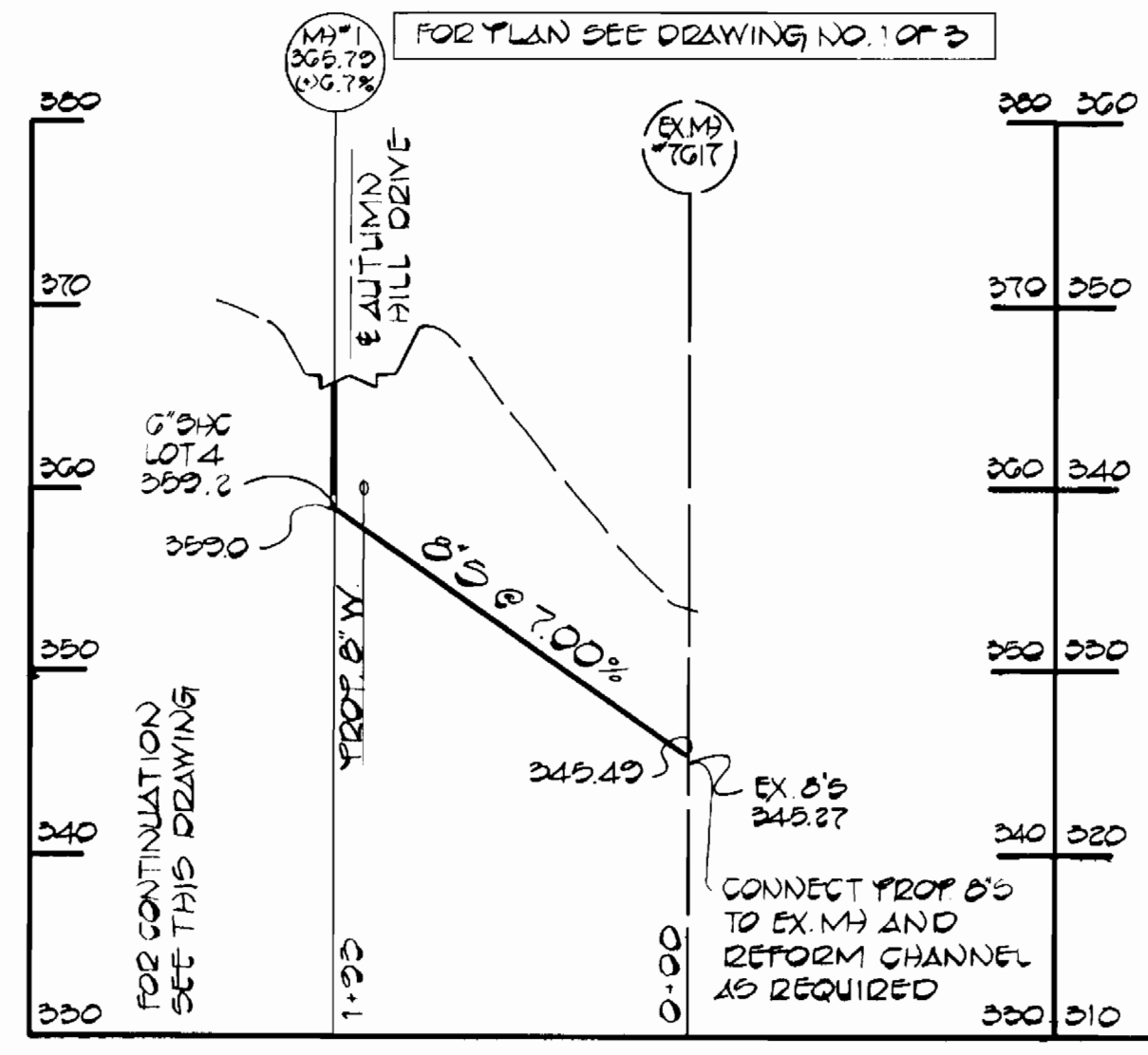
MARCH 16, 1982

WO 20011

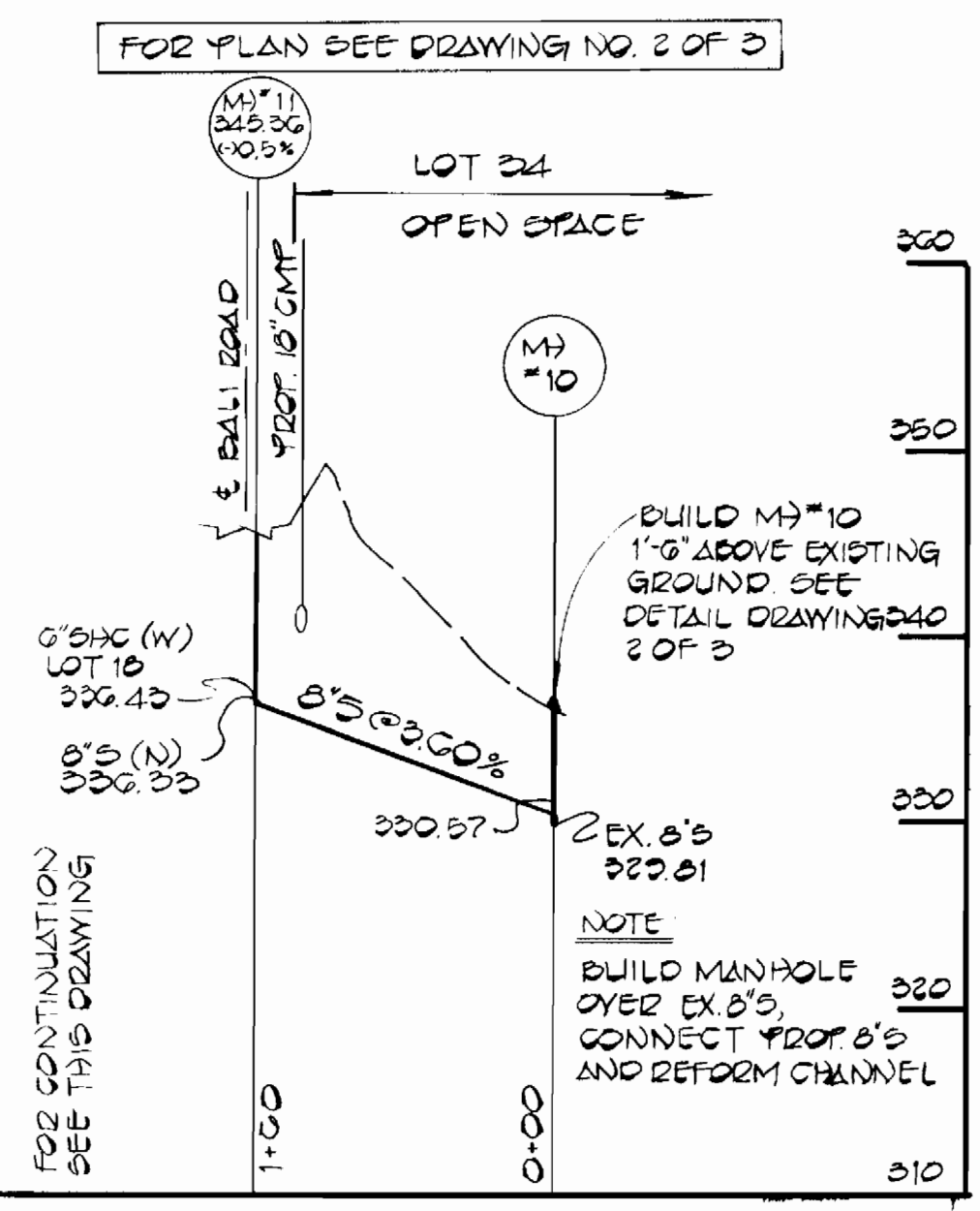


**PROFILE**  
SCALE: HOR. 1"=100'  
VERT. 1"=10'

**PROFILE**  
SCALE: HOR. 1"=100'  
VERT. 1"=10'



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SCALE: HOR. 1"=100'  
VERT. 1"=10'

STATE OF MARYLAND  
TEZRELL & FISHER  
3-19-82

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Steve F. Nunez 3-23-82  
DIRECTOR OF PUBLIC WORKS DATE  
Robert M. Bennett 3-19-82  
CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS AND CARTER, INC.  
CIVIL ENGINEERS AND LAND SURVEYORS  
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CONTRACT NO. 14-1047-D

PROFILE  
WATER AND SEWER MAINS

TAYLOR PROPERTY  
SECTION ONE  
ELECTION DISTRICT 2  
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-1047-D  
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WATER AND SEWER  
EXTENSION  
HOWARD COUNTY, MD.  
DRAWING NO. 3 OF 3  
SCALE AS SHOWN  
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DRN. D.B.S.  
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MARCH 16, 1982