
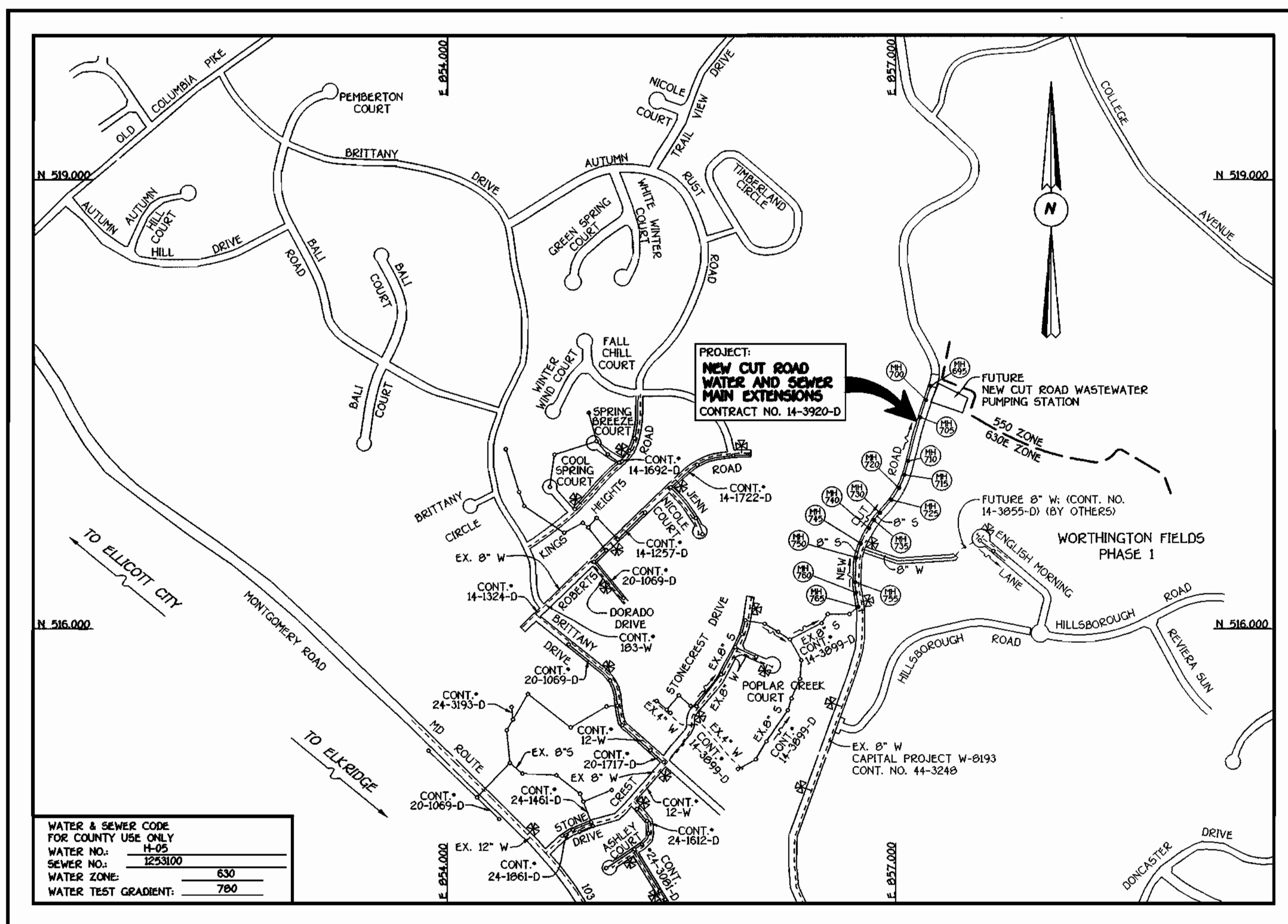


### GENERAL NOTES

- 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 ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (091 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
  - MISS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- 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 PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G.5.1.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W111 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, ☎ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(d) OF THE HOWARD COUNTY CODE.



WATER & SEWER CODE FOR COUNTY USE ONLY	
WATER NO.	14-05
SEWER NO.	1253100
WATER ZONE	630
WATER TEST GRADIENT	780

TYPE OF BUILDING	NOT APPLICABLE
NUMBER OF LOTS & PARCELS	NOT APPLICABLE
NO. OF WATER HOUSE CONNECTIONS	0
NO. OF SEWER HOUSE CONNECTIONS	2
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT VIA THE NEW CUT ROAD PUMPING STATION

### VICINITY MAP

SCALE: 1"=600'

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	595.92 L.F.			
8" X 8" TAPPING SLEEVE	1 EACH			
8" TAPPING VALVE	1 EACH			
8"-1/8 H.B.	1 EACH			
8"-1/16 H.B.	1 EACH			
8" PLUG & BUTTRESS	1 EACH			
AIR RELEASE MANHOLE	1 EACH			
8" SEWER	1,727.52 L.F.			
MANHOLES	15 EACH			
4" SEWER	29 L.F.			
8" PLUG	1 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				

### DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*Paul W. Ruedel* FOR: STONECREST MANOR, LLC  
 SIGNATURE OF DEVELOPER DATE: 02/06/01

### ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*J. McLean*  
 SIGNATURE OF ENGINEER DATE: 2/6/01

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

*Jim Mayes* 2/15/01  
 H.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

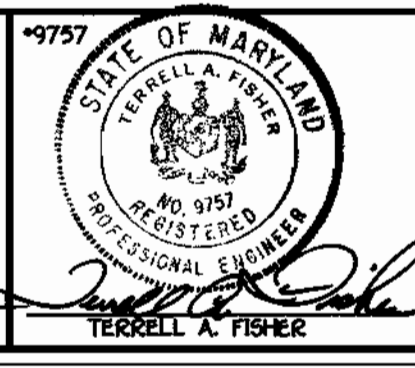
APPROVED: *John R. Johnson* 2/15/01  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS. GP-01-126

*Paul W. Ruedel* FOR: STONECREST MANOR, LLC  
 SIGNATURE OF DEVELOPER DATE: 02/06/01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*Ruth Beaman* 02-08-01  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
*John J. ...* 2/16/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.E.
DATE:	JANUARY, 2001
BY NO.	
REVISION	
DATE	

TITLE SHEET	
600' SCALE MAP NO.	29 BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO.	532
FILE NAME	535 NEW CUT ROAD WATSEW TITLE SHT1

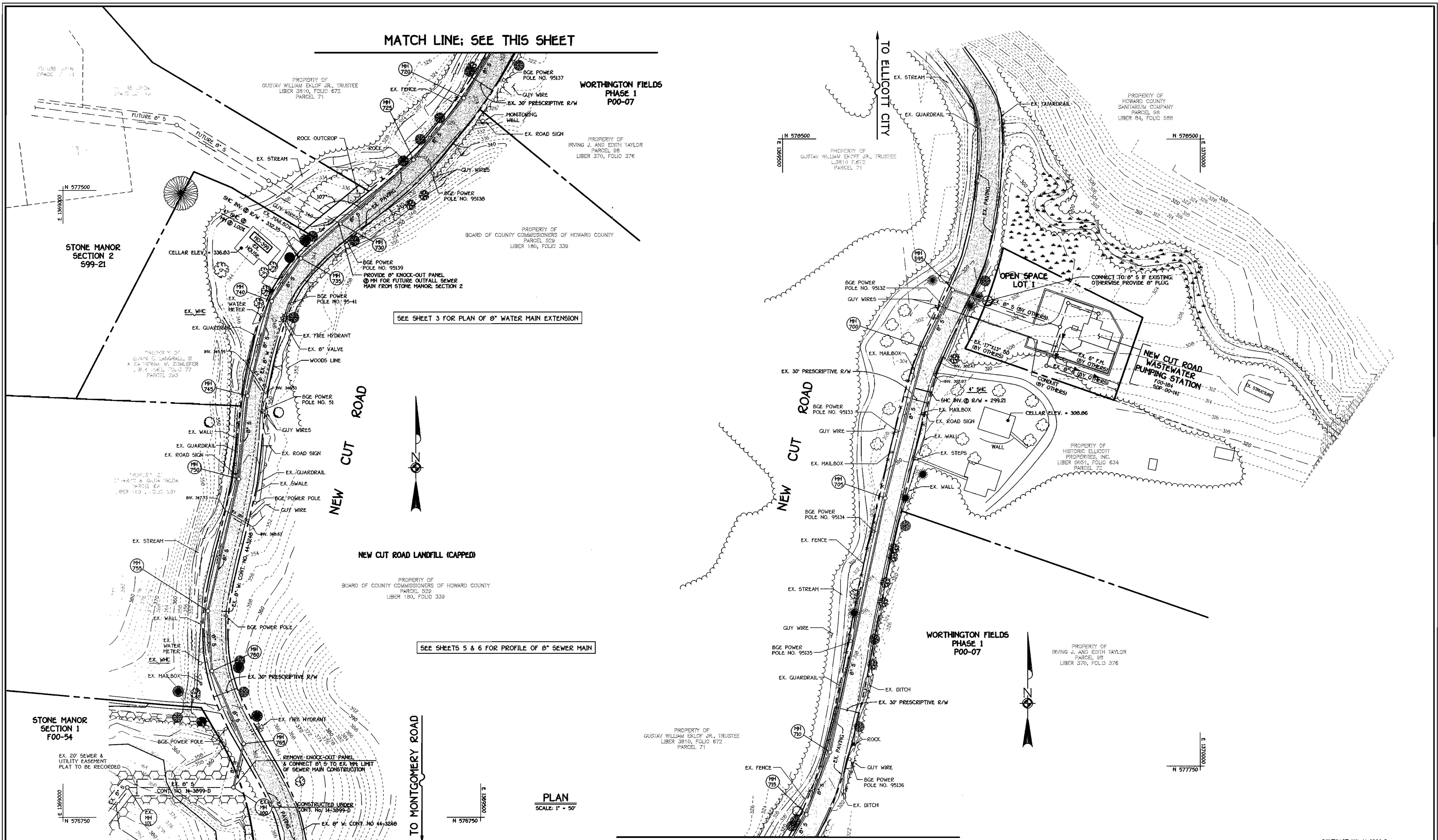
NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS  
 CONTRACT NO. 14-3920-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 6

CONTRACT NO. 14-3920-D  
 NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

# CONTRACT No.14-3920-D NEW CUT ROAD WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

MATCH LINE; SEE THIS SHEET



PLAN  
SCALE: 1" = 50'

MATCH LINE; SEE THIS SHEET

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert W. Bainger*  
CHIEF, BUREAU OF UTILITIES

02-08-01  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Michael J. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/16/01  
DATE

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

1000 SQUARE OFFICE PARK - 8272 BALTIMORE NATIONAL PKWY.  
ELLCOTT CITY, MARYLAND 21042  
4100 94 - 2295

9757  
STATE OF MARYLAND  
TERRELL A. FISHER  
PROFESSIONAL SURVEYOR

DESIGNED BY:	M.D.T.				
DRAWN BY:	M.D.T.				
CHECKED BY:	P.M.K.				
DATE:	JANUARY, 2001	BY	NO.	REVISION	DATE

SEWER MAINS  
PLAN VIEW

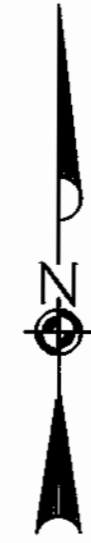
600' SCALE MAP NO. 22 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 535  
FILE NAME: 535 NEW CUT RD WATSEW PLAN SH22

CONTRACT NO. 14-3920-D  
NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 of 6

K:\Drawings\535\NEW CUT RD P.5\WatSew\Final\535 New Cut Rd WatSew Plan SH22.dwg Tue Feb 05 14:23:34 2001



STONE MANOR SECTION 2 599-21

FUTURE OPEN SPACE LOT 14

FUTURE OPEN SPACE LOT 13

FUTURE LOT 11

FUTURE LOT 10

N 577500

E 1369000

PROPERTY OF GUSTAV WILLIAM EKLOF JR., TRUSTEE LIBER 3910, FOLIO 672 PARCEL 71

EX. FENCE

BGE POWER POLE NO. 95137

GUY WIRE

EX. 30' PRESCRIPTIVE R/W

EX. MONITORING WELL

EX. ROAD SIGN

GUY WIRES

BGE POWER POLE NO. 95138

EX. ROAD SIGN

GUY WIRES

PROPERTY OF IRVING J. AND EDITH TAYLOR PARCEL 98 LIBER 370, FOLIO 378

N 577500

E 1369750

WORTHINGTON FIELDS PHASE I P00-07

FUTURE LOT 36

FUTURE LOT 36

FUTURE LOT 34

FUTURE LOT 37

FUTURE LOT 38

FUTURE LOT 33

FUTURE LOT 32

FUTURE LOT 31

FUTURE LOT 30

FUTURE LOT 29

FUTURE LOT 28

FUTURE LOT 40

NOTE: FUTURE WATER & SEWER MAINS IN ENGLISH MORNING LANE TO BE CONSTRUCTED UNDER CONT. NO. 14-3855-D

REMOVE EX. 8" PLUG & BUTTRESS AND CONNECT TO EX. 8" W

EX. WHC

EX. GUARDRAIL

PROPERTY OF EDWIN E. LANGRALL, III & CATHERINE M. ZOMLEFER LIBER 1063, FOLIO 77 PARCEL 283

EX. WALL

EX. GUARDRAIL

EX. ROAD SIGN

PROPERTY OF EDUARDO & GILDA VALDA PARCEL 69 LIBER 1597, FOLIO 231

EX. GUARDRAIL

EX. ROAD SIGN

EX. SWALE

BGE POWER POLE

8" PLUG & BUTTRESS LINE OF WATER MAIN CONSTRUCTION THIS CONTRACT

GUY WIRES

EX. MAILBOX

EX. WATER METER

EX. GUARDRAIL

EX. FIRE HYDRANT

WOODS LINE

GUY WIRES

EX. 8" W. CONT. NO. 44-3249

BGE POWER POLE NO. 51

EX. GUARDRAIL

EX. ROAD SIGN

EX. SWALE

BGE POWER POLE

NEW CUT ROAD LANDFILL (CAPPED)

SEE SHEET 4 OF 6 FOR PROFILE OF 8" WATER MAIN

PROPERTY OF BOARD OF COUNTY COMMISSIONERS OF HOWARD COUNTY PARCEL 529 LIBER 180, FOLIO 339

SEE SHEET 2 FOR PLAN OF 8" SEWER MAIN EXTENSION ALONG NEW CUT ROAD

PLAN SCALE: 1" = 50'

E 1369750

N 577000

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 6, SUPERSEDES THE WATER AND SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 16, 2001.

CONTRACT NO. 14-3920-D NEW CUT ROAD WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
DATE:	
BY NO.	
REVISION	
DATE	

WATER MAIN PLAN VIEW

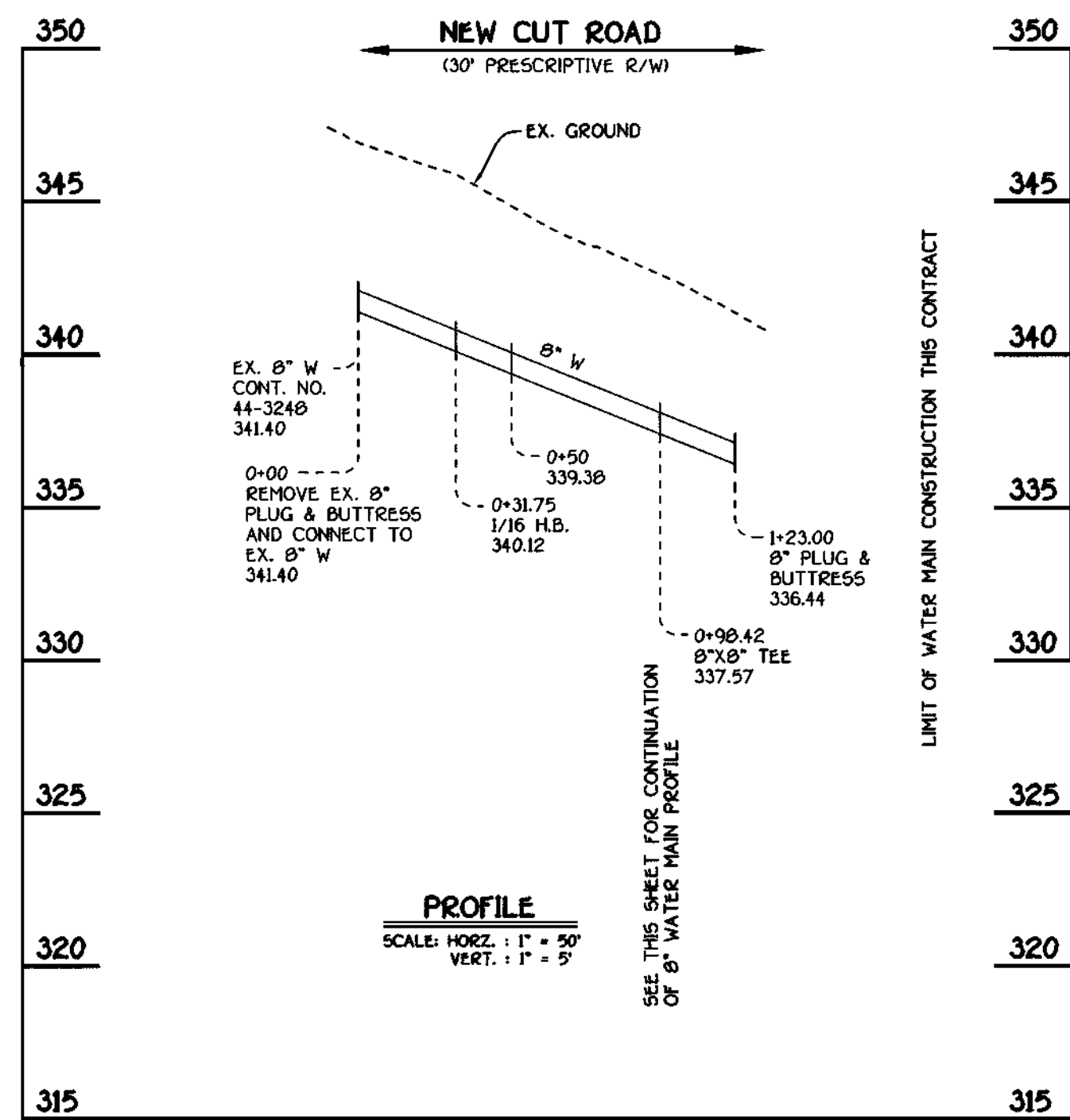
600' SCALE MAP NO. 25 BLOCK NO. 19 & 20 F.C.C. WORK ORDER NO. 535 FILE NAME: 535 NEW CUT RD WATER PLAN SMT3

NEW CUT ROAD WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 14-3920-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 3 OF 6

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
NEW CUT ROAD			
0+00	CONNECT TO EX. 8" WATER	577351.66	1369264.24
0+31.75	1/16 H.B.	577381.56	1369274.92
0+98.42	8" X 8" TEE	577429.24	1369321.51
1+23.00	8" PLUG & BUTTRESS	577446.82	1369338.69
NEW CUT ROAD TO ENGLISH MORNING LANE			
0+00	8" X 8" TEE	577429.24	1369321.51
0+03	8" VALVE	577427.15	1369323.66
0+65.91	P.C. (380' CRIMP RADIUS)	577383.18	1369368.65
1+30.00	AIR RELEASE MANHOLE	577342.45	1369418.04
2+47.99	P.T. (380' CRIMP RADIUS)	577291.35	1369523.06
2+85.58	1/16 H.B.	577280.43	1369559.84
5+05.00	AIR RELEASE MANHOLE	577301.90	1369778.20
5+55.50	1/8 H.B.	577306.84	1369828.46
5+70.50	8" PLUG & BUTTRESS	577318.44	1369837.98

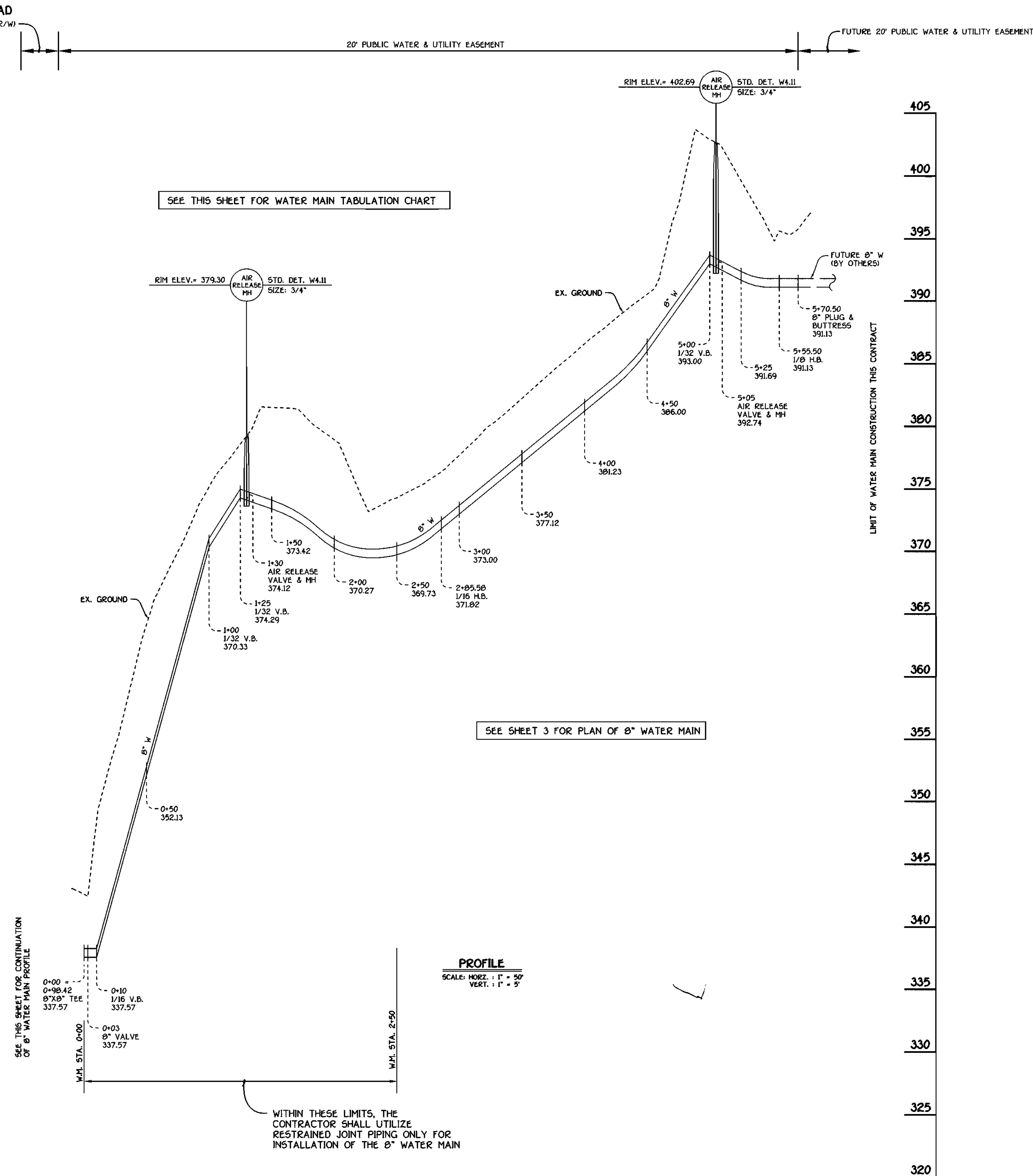
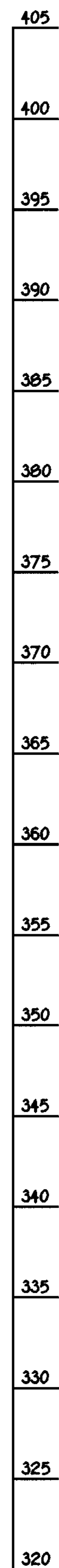
SEE THIS SHEET FOR WATER MAIN TABULATION CHART



**8" WATER MAIN : NEW CUT ROAD**

**NOTE:** THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 6, SUPERSEDES THE WATER AND SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 16, 2001.

NEW CUT ROAD  
(30' PRESCRIPTIVE R/W)



**8" WATER MAIN LOOP: NEW CUT ROAD TO ENGLISH MORNING LANE**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTONIAL SQUARE OFFICE PARK - 1827 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21117  
(410) 481-2099



DESIGNED BY:	H.D.T.
DRAWN BY:	H.D.T.
CHECKED BY:	P.W.K.
DATE:	JULY, 2001
BY NO.	
REVISION	

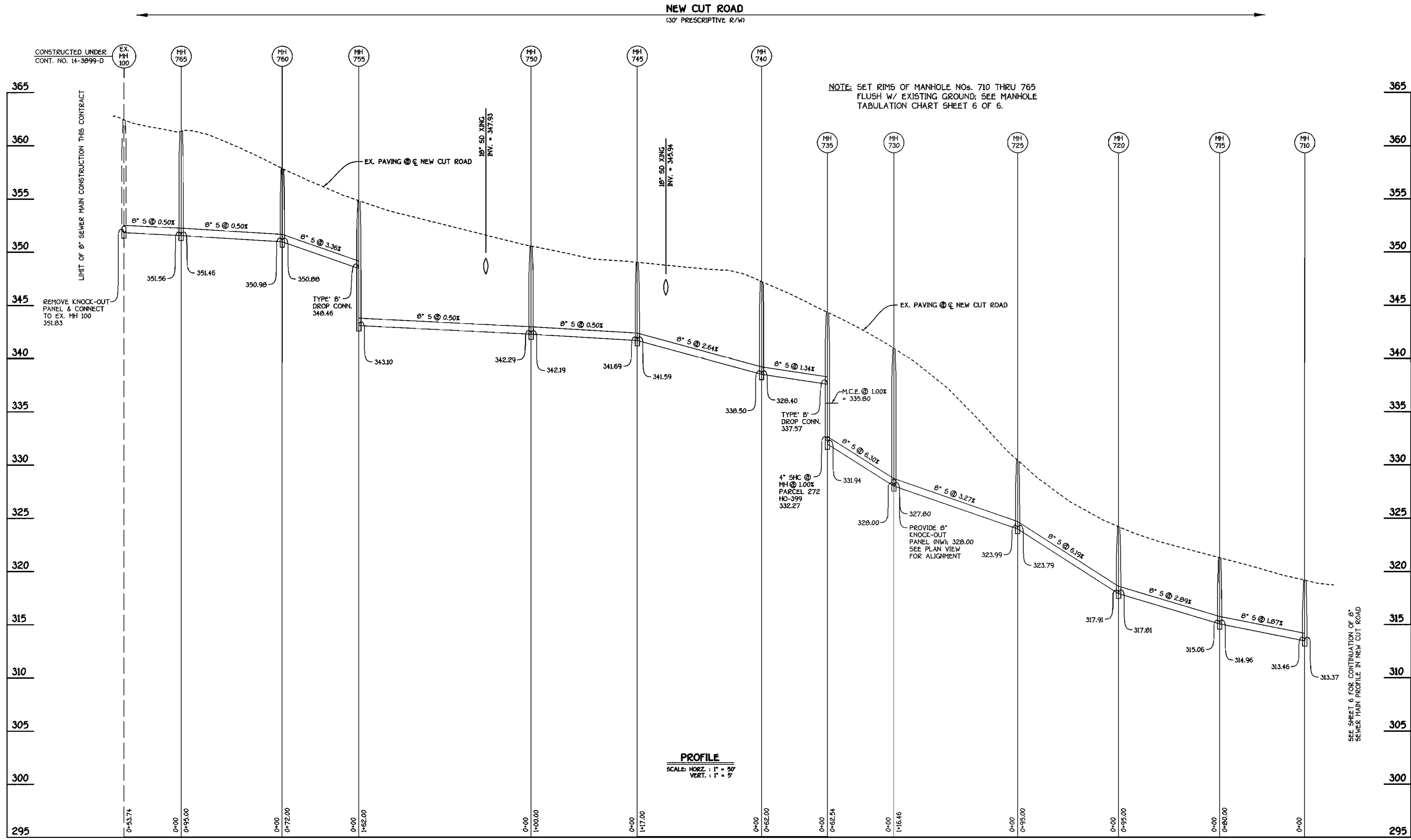
WATER MAINS  
PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 532  
FILE NAME : 339 NEW CUT RD WATER MAIN PROFILE SH14

**NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS**  
CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE  
AS  
SHOWN  
SHEET  
4 OF 6

CONTRACT NO. 14-3920-D  
NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND



**8" SEWER MAIN: NEW CUT ROAD**

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

NOTE: SET RIMS OF MANHOLE NOS. 710 THRU 765 FLUSH W/ EXISTING GROUND; SEE MANHOLE TABULATION CHART SHEET 6 OF 6.

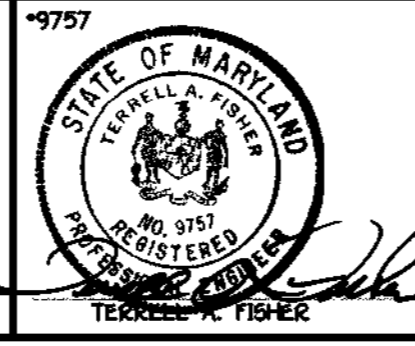
SEE SHEET 6 FOR CONTINUATION OF 8" SEWER MAIN PROFILE IN NEW CUT ROAD

CONTRACT NO. 14-3920-D  
NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Robert W. Berman*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
*Michael J. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
1000 ...  
ELLSWORTH CITY, MARYLAND 21042



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JANUARY, 2001
BY NO.	
REVISION	
DATE	

**SEWER MAINS PROFILES**

600' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 532  
FILE NAME: 535 NEW CUT RD WATSEW PROFILE SHTS

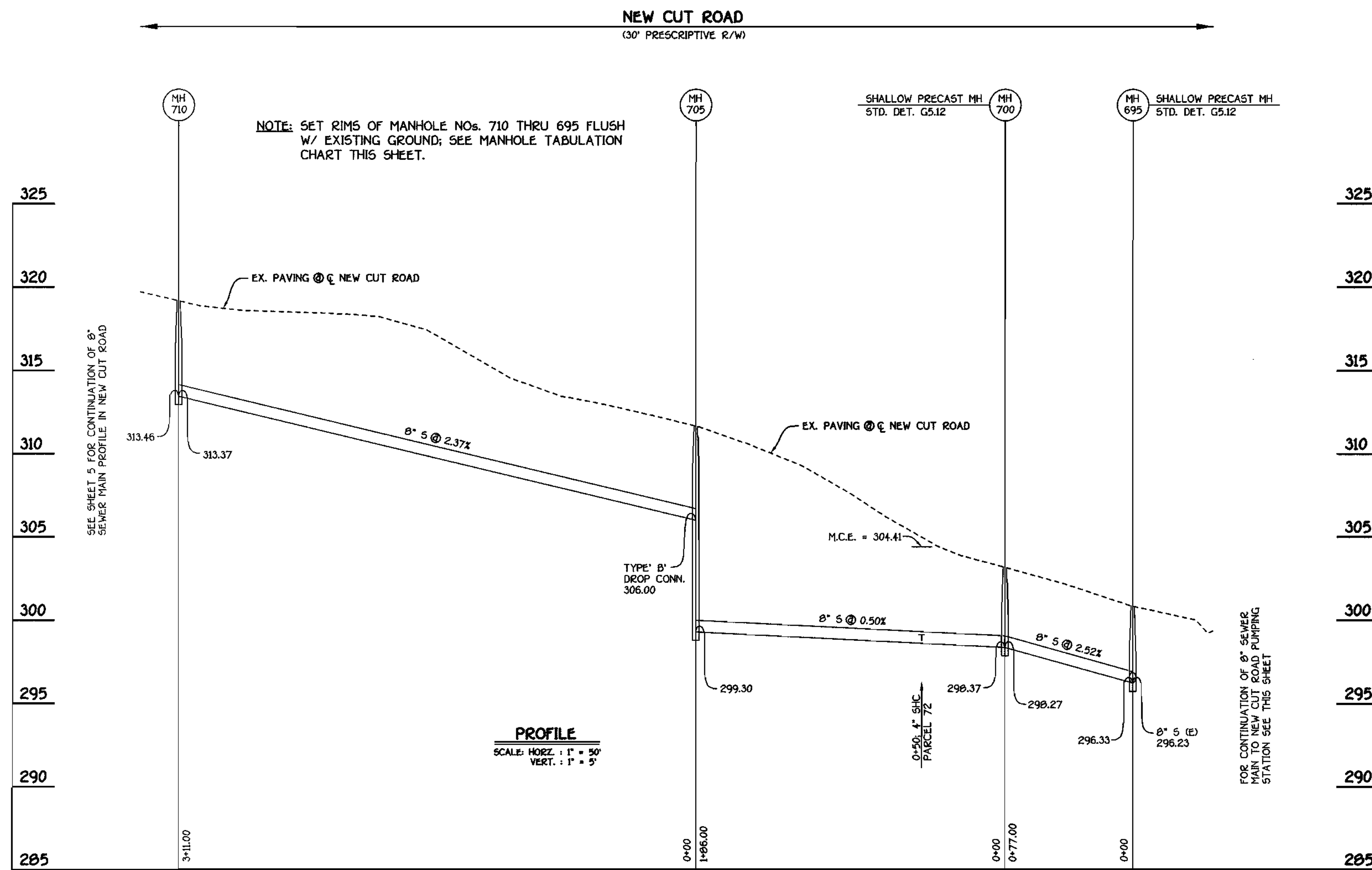
**NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS**

CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

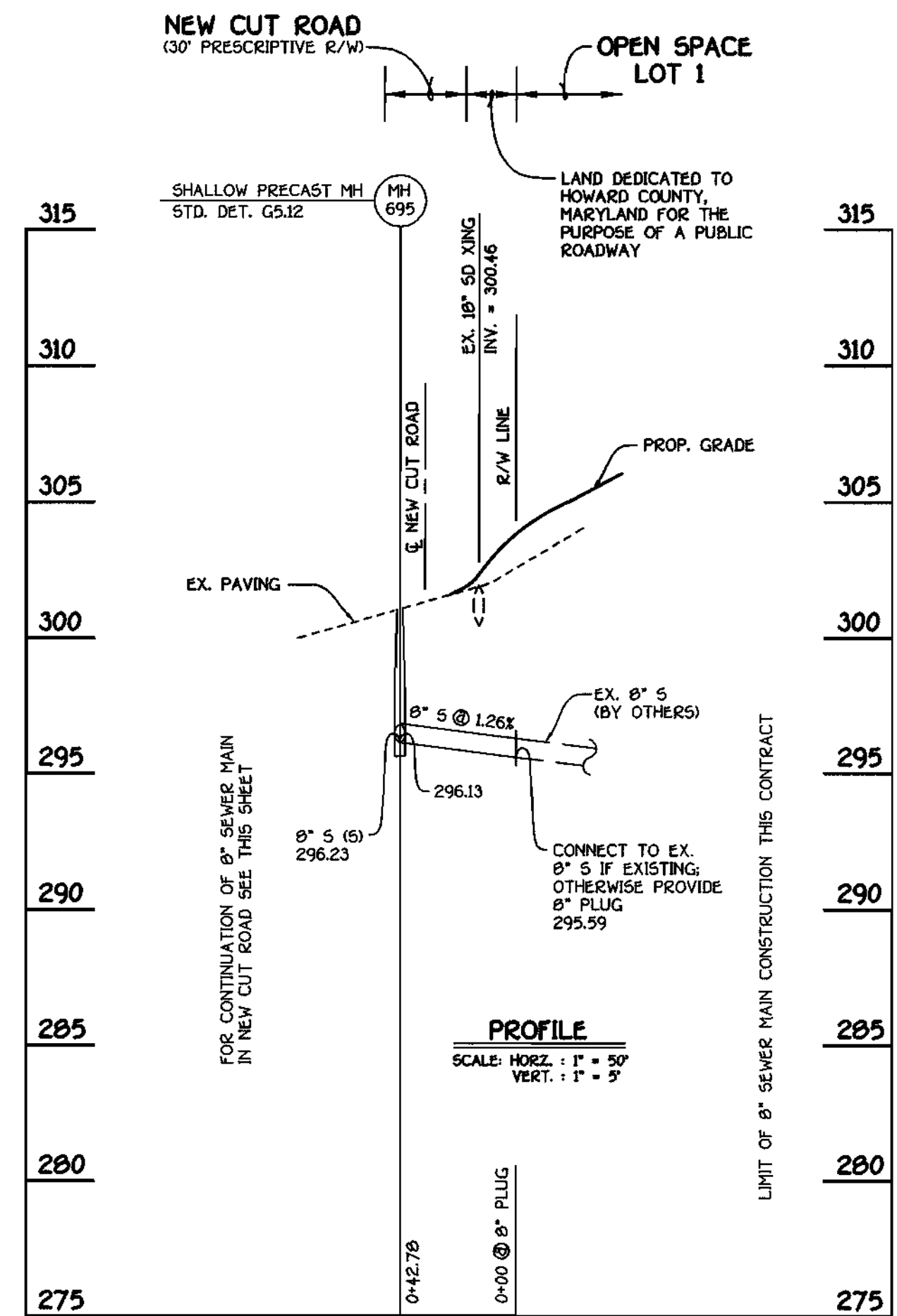
SCALE AS SHOWN  
SHEET 5 OF 6

K:\Drawings\51535 NEWCUT RD P. S\WatsEW\Main\535 New Cut Road WatSew Profile SHS.dwg Tue Feb 06 15:02:05 2001

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
765	576938.18	1369216.63	361.39
760	576925.20	1369178.51	357.87
755	576997.04	1369173.76	354.85
750	577154.75	1369210.80	350.56
745	577294.21	1369221.17	349.02
740	577367.57	1369250.15	347.23
735	577418.84	1369285.00	344.35
730	577459.97	1369332.11	340.96
725	577536.57	1369419.84	330.42
720	577610.05	1369480.05	324.21
715	577691.65	1369528.70	321.30
710	577766.44	1369557.10	319.18
705	578070.34	1369623.18	311.67
700	578250.17	1369670.69	303.17
695	578319.61	1369703.97	300.85



**8" SEWER MAIN: NEW CUT ROAD**

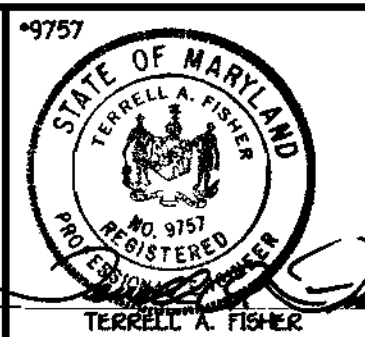


**8" SEWER TO NEW CUT ROAD PUMPING STATION**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 18772 BALTIMORE NATIONAL PIKE  
CLIKOTT CITY, MARYLAND 21042  
410-421-2855



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JANUARY, 2001
BY NO.	
REVISION	
DATE	
FILE NAME:	535 NEW CUT RD. WATSEW PROFILE SHTS

SEWER MAINS  
PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 232

**NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS**  
CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE  
AS  
SHOWN

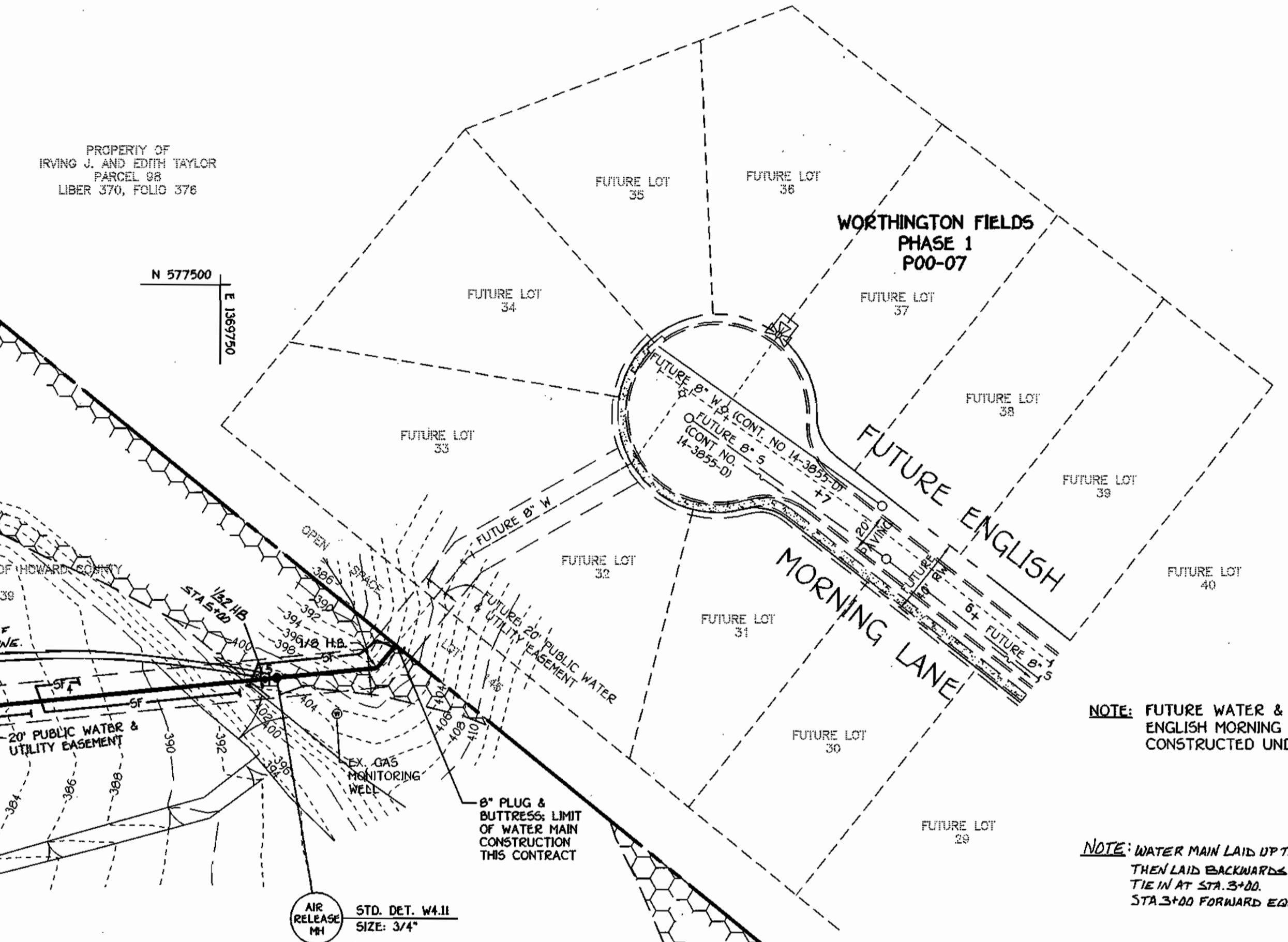
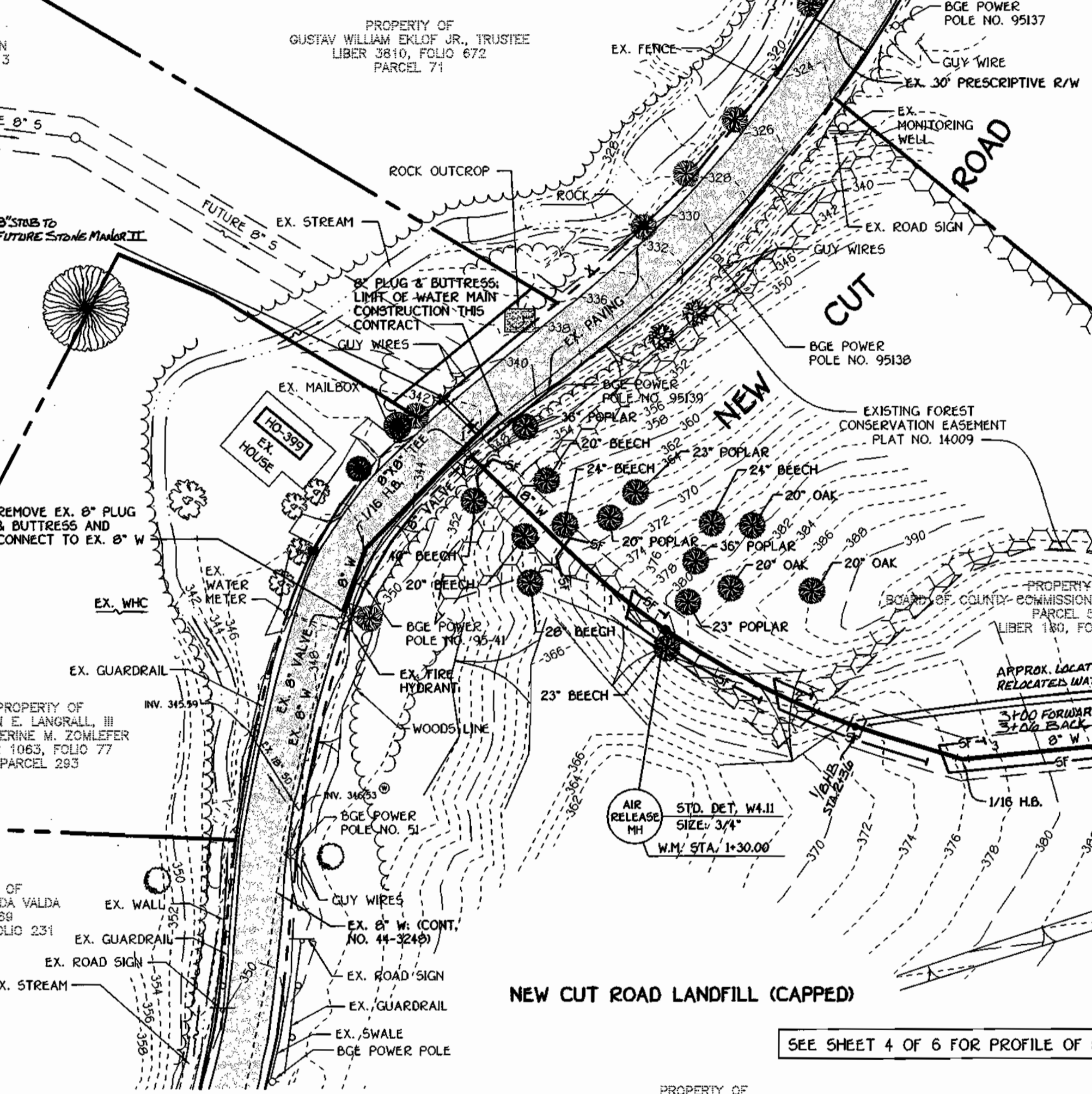
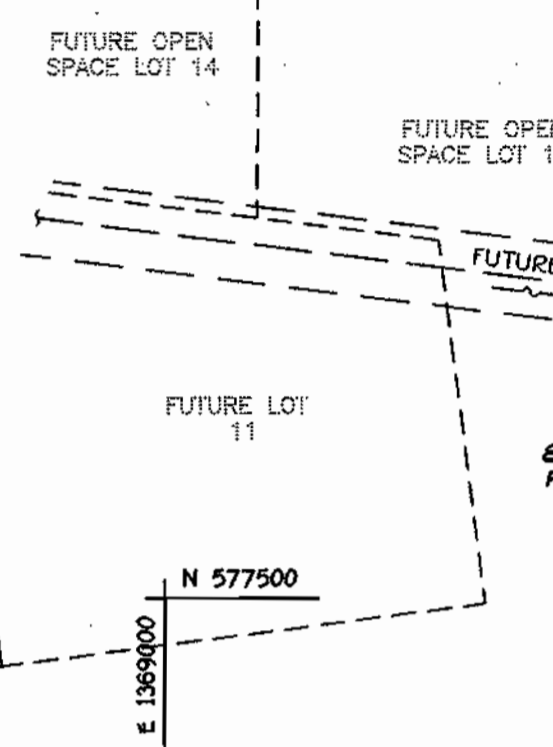
SHEET  
6 OF 6

CONTRACT NO. 14-3920-D  
NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

K:\Drawings\51535 NEWCUT RD P. S\WatSew\Main\535 New Cut Road Watsew Profile SHTS.dwg Tue Feb 05 15:46:19 2001



STONE MANOR SECTION 2 599-21



NOTE: FUTURE WATER & SEWER MAINS IN ENGLISH MORNING LANE TO BE CONSTRUCTED UNDER CONT. NO. 14-3055-D

NOTE: WATER MAIN LAID UP TO STA. 3+00. THEN LAID BACKWARDS FROM STA. 5+70<sup>00</sup> TO TIE IN AT STA. 3+00. STA. 3+00 FORWARD EQUALS STA. 5+70<sup>00</sup> BACK.

NEW CUT ROAD LANDFILL (CAPPED)

SEE SHEET 4 OF 6 FOR PROFILE OF 8" WATER MAIN

SEE SHEET 2 FOR PLAN OF 8" SEWER MAIN EXTENSION ALONG NEW CUT ROAD

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 6, SUPERSEDES THE WATER AND SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 16, 2001.

PLAN SCALE: 1" = 50'

N 577000 E 1386750

CONTRACT NO. 14-3920-D NEW CUT ROAD WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



Table with columns for DESIGNED BY, DRAWN BY, CHECKED BY, DATE, BY, NO., REVISION, DATE.

WATER MAIN PLAN VIEW 600' SCALE MAP NO. 25 BLOCK NO. 19 & 20 F.C.C. WORK ORDER NO. 522 FILE NAME: 535 NEW CUT RD. WATER PLAN SH13

NEW CUT ROAD WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 14-3920-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 3 OF 6

Signature: R. H. Bannan, July 9, 2001, CHIEF, BUREAU OF UTILITIES

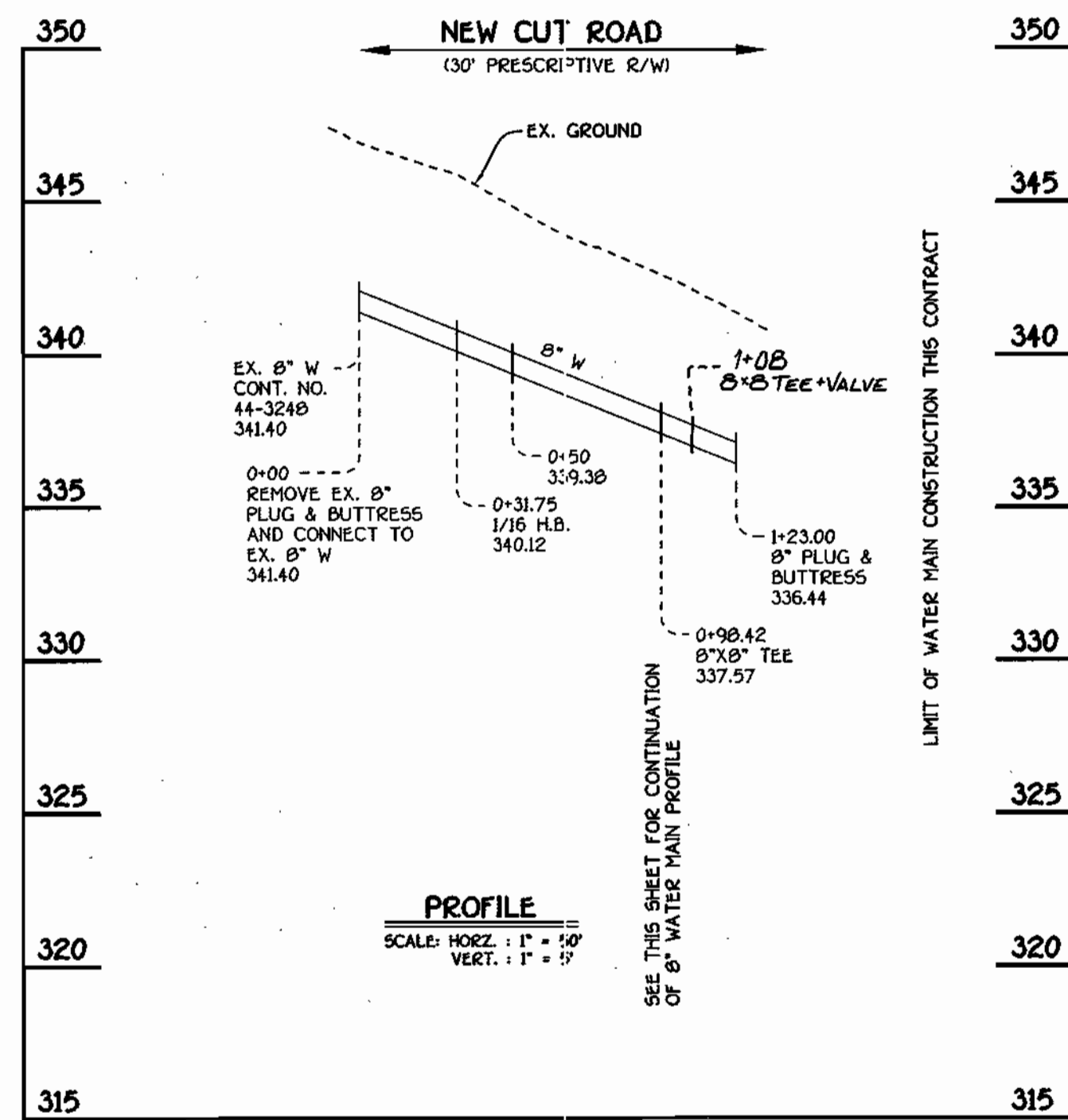
Signature: H. J. [unclear], 7/11/01, CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: Terrell A. Fisher

K:\Drawings\5555\NEW CUT RD

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
NEW CUT ROAD			
0+00	CONNECT TO EX. 8" WATER	577351.66	1369264.24
0+31.75	1/16 H.B.	577381.56	1369274.92
0+98.42	8" X 8" TEE	577429.24	1369321.51
1+23.00	8" PLUG & BUTTRESS	577446.82	1369330.69
NEW CUT ROAD TO ENGLISH MORNING LANE			
0+00	8" X 8" TEE	577429.24	1369321.51
0+03	8" VALVE	577427.15	1369323.66
0+65.91	P.C. (380' CRIMP RADIUS)	577383.18	1369368.85
1+30.00	AIR RELEASE MANHOLE	577342.45	1369418.04
2+47.99	P.T. (380' CRIMP RADIUS)	577291.35	1369523.86
2+85.58	1/16 H.B.	577280.43	1369559.84
5+05.00	AIR RELEASE MANHOLE	577301.90	1369778.20
5+55.50	1/8 H.B.	577306.84	1369828.46
5+70.50	8" PLUG & BUTTRESS	577318.44	1369837.98

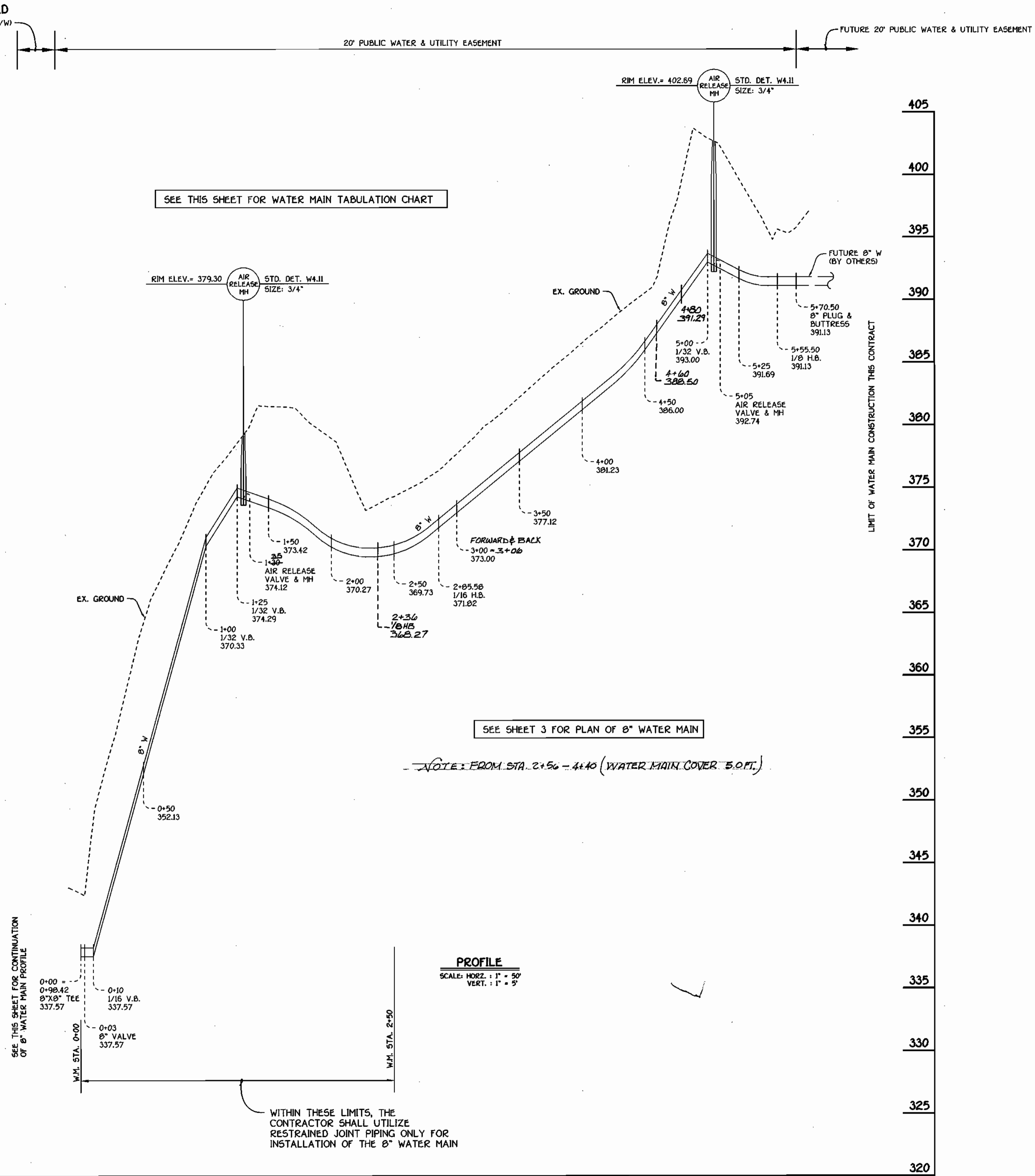
SEE THIS SHEET FOR WATER MAIN TABULATION CHART



8" WATER MAIN : NEW CUT ROAD

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 6, SUPERSEDES THE WATER AND SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING ON FEBRUARY 16, 2001.

NEW CUT ROAD  
(30' PRESCRIPTIVE R/W)



8" WATER MAIN LOOP: NEW CUT ROAD TO ENGLISH MORNING LANE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
410 481 - 2555



DESIGNED BY: M.D.T.  
DRAWN BY: M.D.T.  
CHECKED BY: P.W.K.  
DATE: 7/1/01  
BY NO. 1011 ASBULICT DATA  
REVISION  
DATE: 10/01/02

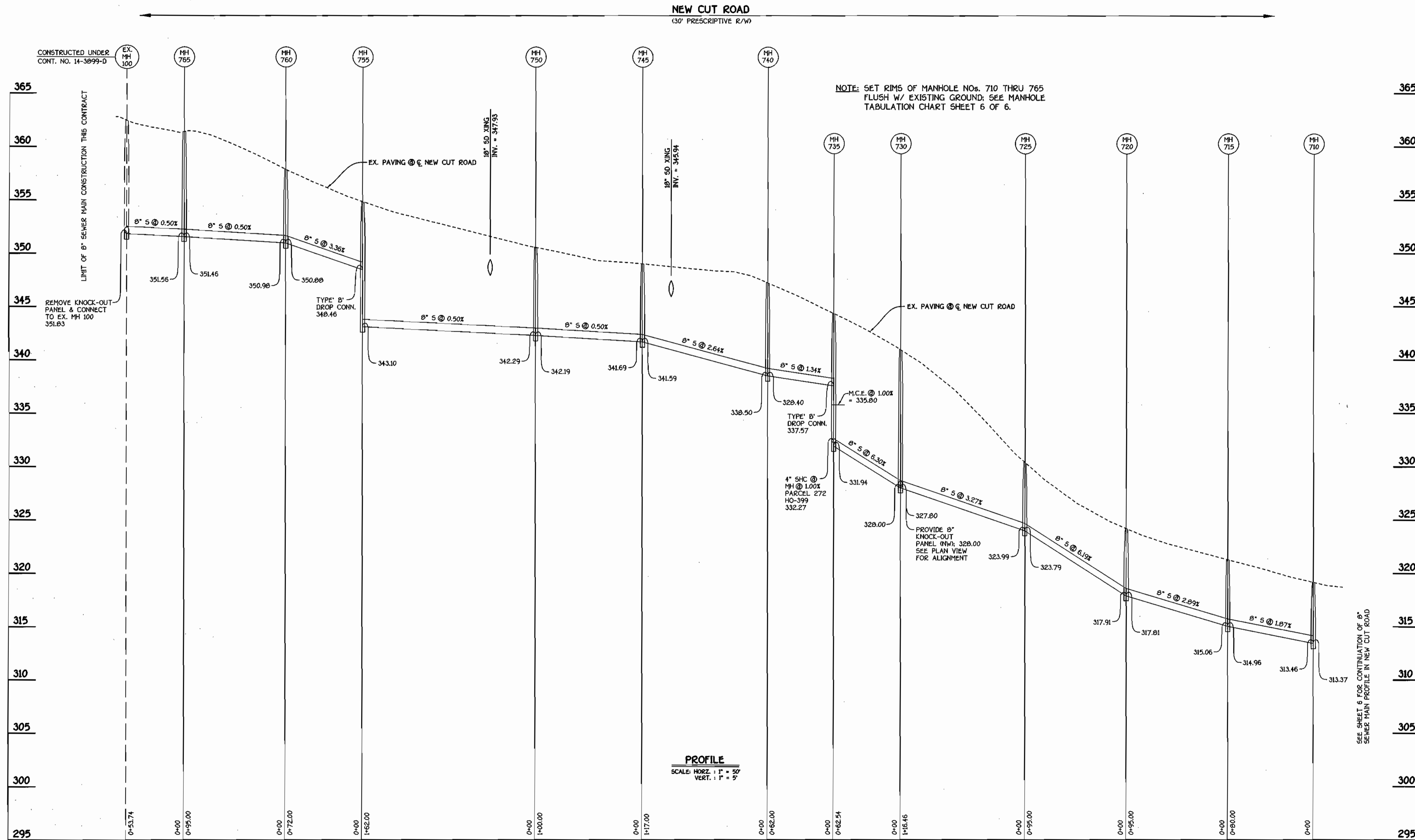
WATER MAINS  
PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 532  
FILE NAME: 535 NEW CUT RD WATER MAIN PROFILE SH11

NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE  
AS  
SHOWN  
SHEET  
4 of 6





**8" SEWER MAIN: NEW CUT ROAD**

CONTRACT NO. 14-3920-D  
 NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 10775 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21117  
 (410) 481-2255



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JANUARY, 2001
BY NO.	
REVISION	
DATE	

**SEWER MAINS PROFILES**

600' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
 F.C.C. WORK ORDER NO. 535  
 FILE NAME: 535 NEW CUT RD WATSEW PROFILE SHTS

**NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS**

CONTRACT NO. 14-3920-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE  
 AS  
 SHOWN

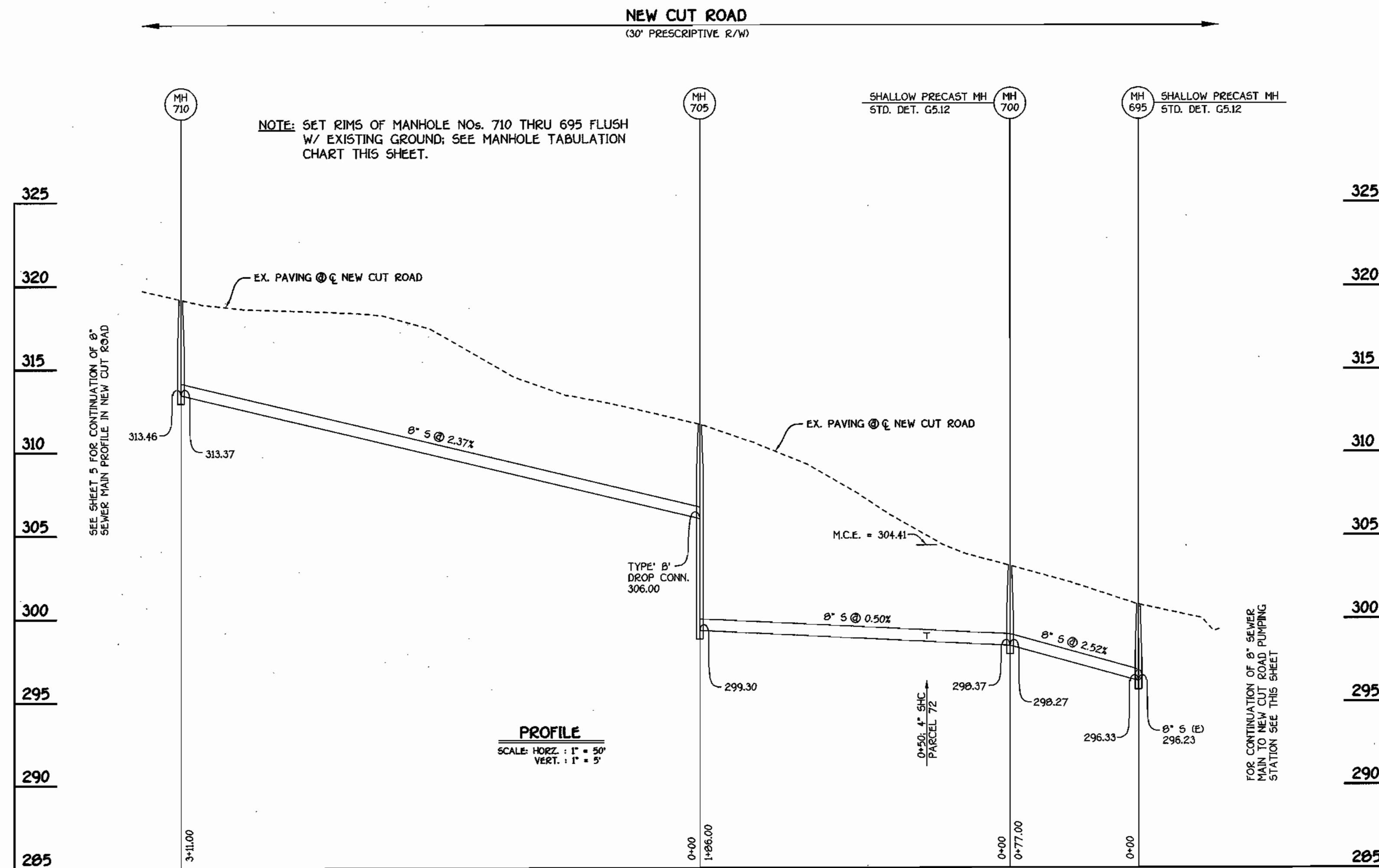
SHEET  
 5 OF 6

K:\Drawings\5035\NEW CUT RD P:\S\Map\SeW\Profile\_Sht5.dwg Tue Feb 06 15:02:05 2001

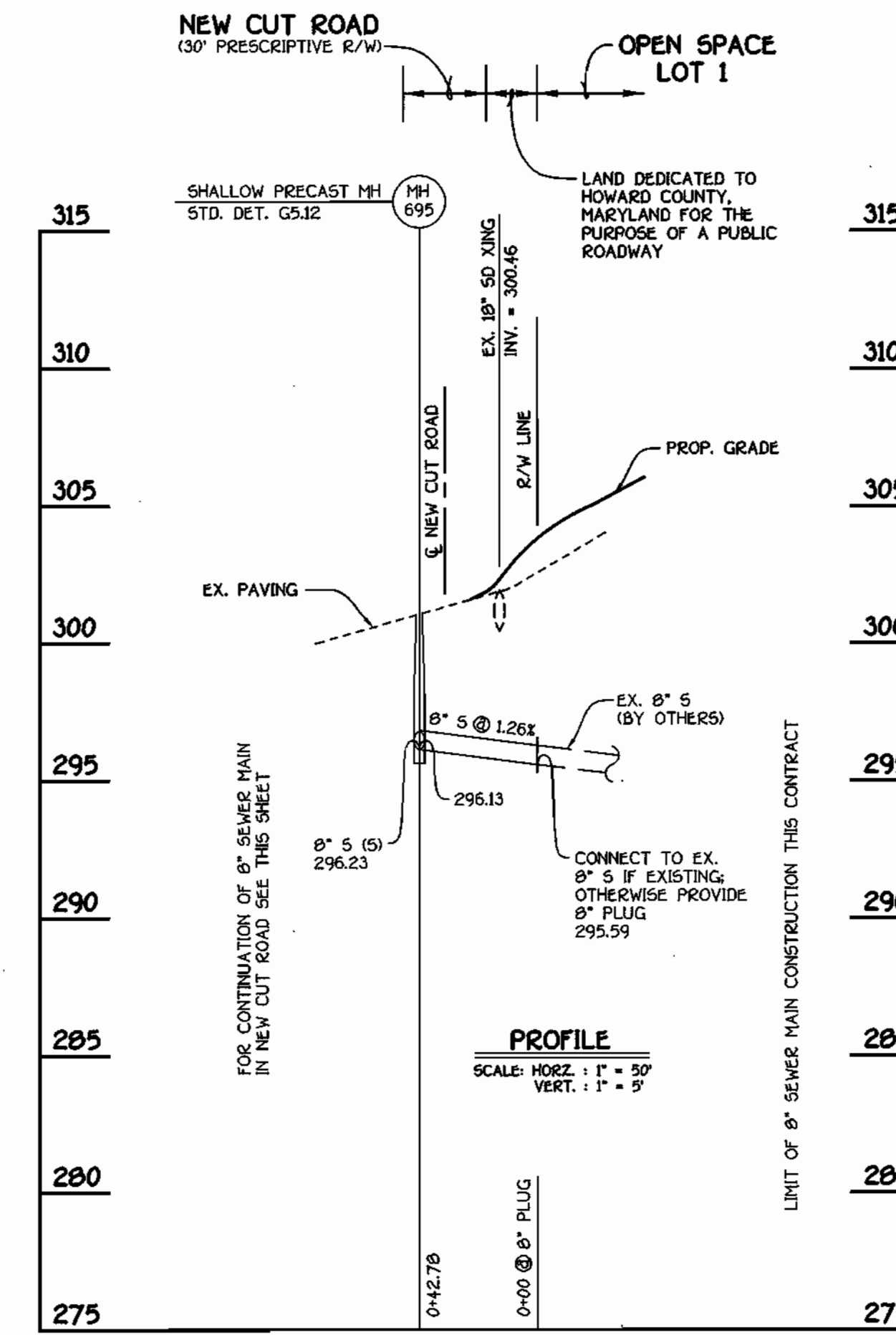
*Robert J. ...* 02-08-01  
 CHIEF, BUREAU OF UTILITIES DATE

*Michael ...* 2/16/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
765	576838.18	1369216.63	361.39
760	576925.20	1369178.51	357.87
755	576997.04	1369173.76	354.85
750	577154.75	1369210.80	350.56
745	577254.21	1369221.17	349.02
740	577367.57	1369250.15	347.23
735	577418.84	1369285.00	344.35
730	577459.97	1369332.11	340.96
725	577536.57	1369419.84	330.42
720	577610.05	1369480.05	324.21
715	577691.65	1369528.70	321.30
710	577766.44	1369557.10	319.18
705	578070.34	1369623.18	311.67
700	578250.17	1369670.69	303.17
695	578319.61	1369703.97	300.85



**8" SEWER MAIN: NEW CUT ROAD**



**8" SEWER TO NEW CUT ROAD PUMPING STATION**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert W. Benjamin*  
CHIEF, BUREAU OF UTILITIES

02-08-01  
DATE

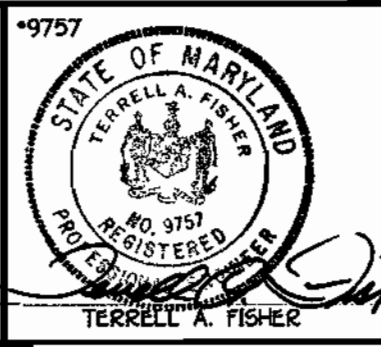
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Michael J. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/16/01  
DATE

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2895



DESIGNED BY: M.D.T.  
DRAWN BY: M.D.T.  
CHECKED BY: P.W.K.  
DATE: JANUARY, 2001

BY NO. REVISION DATE

**SEWER MAINS PROFILES**

60' SCALE MAP NO. 23 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 532  
FILE NAME: 535 NEW CUT RD WATSEW PROFILE SHTS

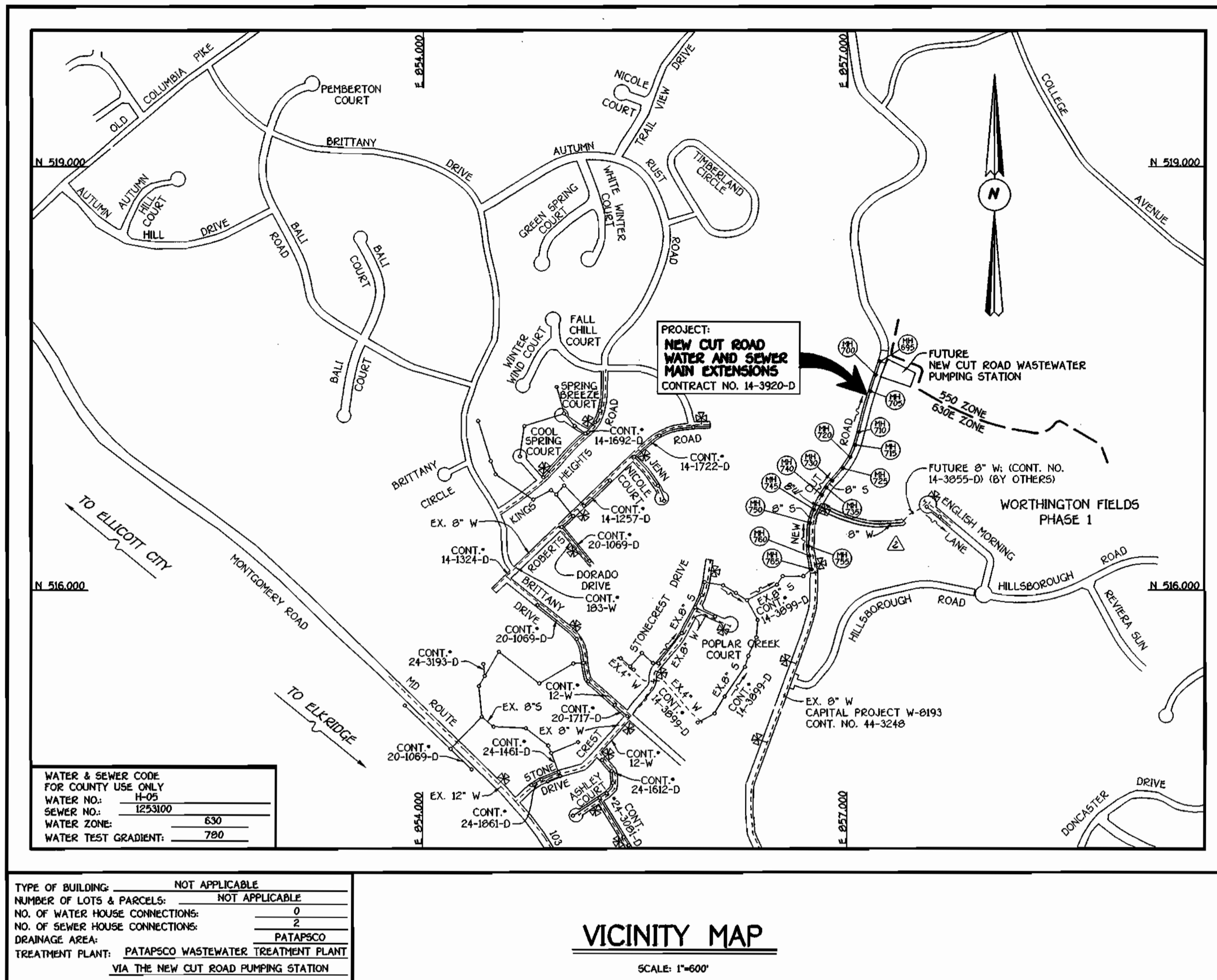
**NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS**

CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 6 OF 6

K:\Drawings\51535 NEW CUT RD P.S\NetSew\Profile\51535 New Cut Road NetSew Profile.dwg Tue Feb 06 15:46:18 2001

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	608.50 LF.	722.0	DIP	GRIFFIN / B.R.S.
8" X 8" TEE	1 EACH	0		
8" VALVE	1 EACH	2 ea.	RSGV	MULLER / B.R.K.
8"-1/16 V.B.	1 EACH			
8"-1/16 H.B.	2 EACH	2 ea.		U.S. PIPE / B.R.S.
8" PLUG & BUTTRESS	2 EACH	1 ea.		
AIR RELEASE MANHOLE	2 EACH	2 ea.	CRISPIN / PRECAST	CRISPIN / B.R.S. / ATLANTIC
8" SEWER	1,727.92 LF.	1,688	P.V.C.	J.M. / B.R.S.
MANHOLES	15 EACH	15 ea.	PRECAST	ATLANTIC
4" SEWER	29 LF.	34.0	P.V.C.	J.M. / B.R.S.
8" PLUG	1 EACH	1 ea.	P.V.C.	J.M. / B.R.S.
8"-1/8 H.B.	1 EACH	2 ea.	DIP	GRIFFIN / B.R.S.
8"-1/8 V.B.	2 EACH			
NAME OF UTILITY CONTRACTOR: C.C.S.				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



**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 EXPENSES.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  $\square$  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 - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-3068
  - MISS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE DIP, OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- 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 PLANS OR IN THE SPECIFICATIONS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.5I.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE DIP, 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W11 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, ☎ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.11(a) OF THE HOWARD COUNTY CODE.

**DEVELOPER'S CERTIFICATION**

" I HAVE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature of Developer: *Manor, LLC* DATE: 02/06/01

**ENGINEER'S CERTIFICATION**

" I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Engineer: *John McClain* DATE: 2/6/01

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

Signature: *Jim Myers* DATE: 2/13/01  
HOWARD COUNTY NATURAL RESOURCES CONSERVATION SERVICE

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

Signature: *John Robertson* DATE: 2/13/01  
HOWARD SOIL CONSERVATION DISTRICT

SEDPMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS.

GP-01-126

Signature of Developer: *Manor, LLC* DATE: 02/06/01

**CONTRACT No.14-3920-D**  
**NEW CUT ROAD**  
**WATER AND SEWER MAIN**  
**EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Signature: *Robert Berman* DATE: 02-08-01  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
Signature: *John Deamon* DATE: 2/16/01  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTINENTAL SQUARE, OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
410-461-2000



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.	DATE:	7-18-01
DATE:	JANUARY, 2001	BY NO.	
REVISION:	K01 B AS-BUILT DATA	DATE:	10/02/01
REVISION:	DAN A REVISE W/L ALIGNMENT THRU LANDFILL	DATE:	7-18-01
REVISION:	DAN A REVISE QUANTITIES TO REFLECT REVISED ALIGNMENT	DATE:	7-18-01

TITLE SHEET
600' SCALE MAP NO. 25 BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 532
FILE NAME: 532 NEW CUT ROAD WATSEW TITLE SH11

**NEW CUT ROAD**  
**WATER AND SEWER MAIN EXTENSIONS**  
 CONTRACT NO. 14-3920-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 of 6

MATCH LINE; SEE THIS SHEET

WORTHINGTON FIELDS  
PHASE 1  
P00-07

N 578500  
E 13869000

N 578500  
E 1370000

STONE MANOR  
SECTION 2  
599-21

NEW CUT ROAD

NEW CUT ROAD LANDFILL (CAPPED)

PROPERTY OF  
BOARD OF COUNTY COMMISSIONERS OF HOWARD COUNTY  
PARCEL 529  
LIBER 180, FOLIO 339

SEE SHEETS 5 & 6 FOR PROFILE OF 8" SEWER MAIN

PLAN  
SCALE: 1" = 50'

TO MONTGOMERY ROAD

NEW CUT ROAD

WORTHINGTON FIELDS  
PHASE 1  
P00-07

PROPERTY OF  
IRVING J. AND EDITH TAYLOR  
PARCEL 98  
LIBER 370, FOLIO 376

N 577750  
E 1370000

MATCH LINE; SEE THIS SHEET

CONTRACT NO. 14-3920-D  
NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CONTONAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PPK  
ELLCOTT CITY, MARYLAND 21114  
410.461.2555



DESIGNED BY: M.D.T.  
DRAWN BY: M.D.T.  
CHECKED BY: P.W.K.  
DATE: JANUARY, 2001

FILE NO. ASBUILT DATA  
REVISION

SEWER MAINS  
PLAN VIEW

60' SCALE MAP NO. 25 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 532  
FILE NAME: 535 NEW CUT RD WATSEW PLAN SH2

NEW CUT ROAD  
WATER AND SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-3920-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND


SCALE  
AS  
SHOWN  
SHEET  
2 of 6

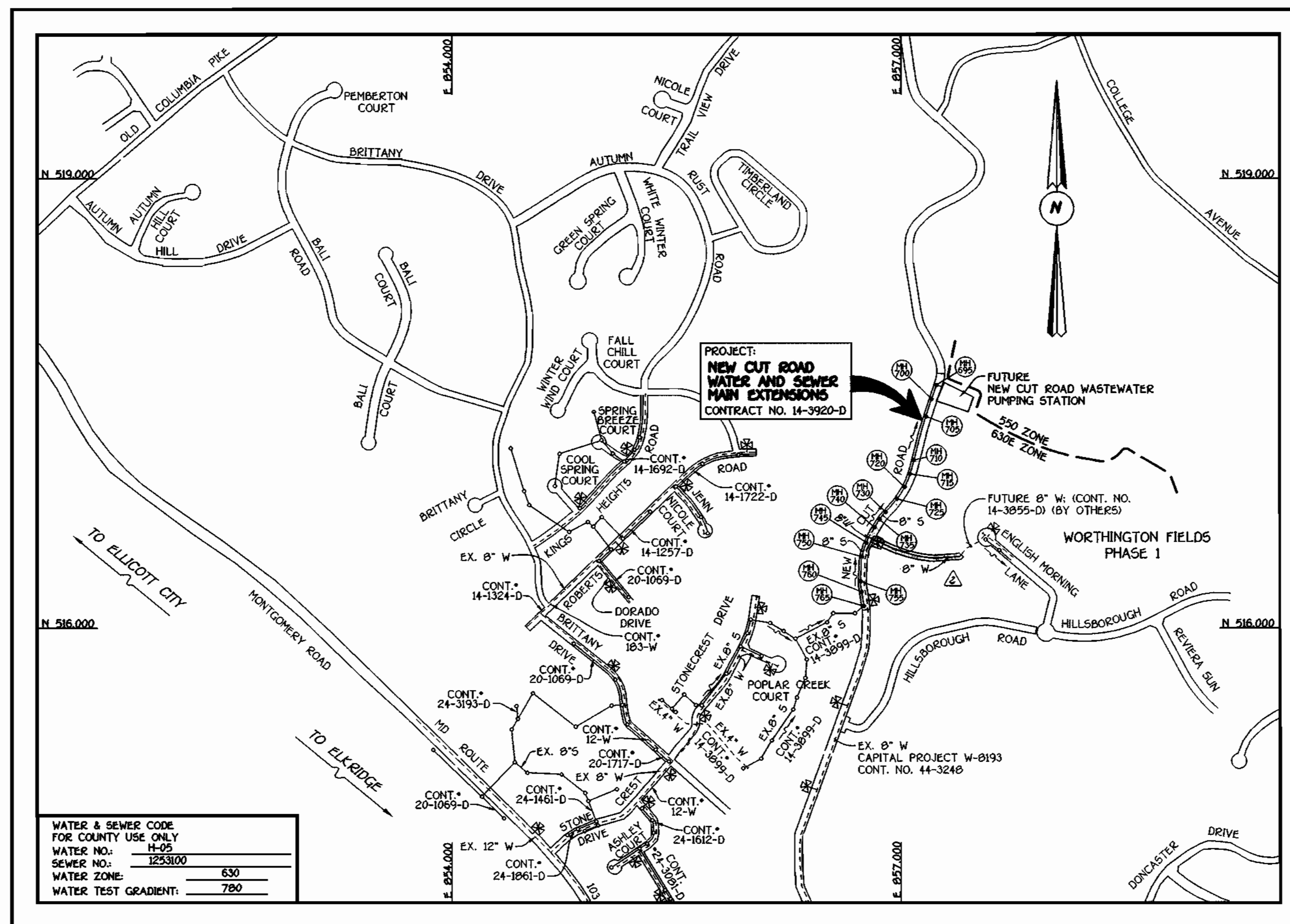
Robert M. Berman  
02-08-01  
DATE

DATE 2/16/01  
DATE

K:\Drawings\51535\HENCUT.P0 P:\S\WetSew\Plan\51535 New Cut Rd WatsSew Plan SH2.dwg Tue Feb 05 14:29:34 2001

**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 ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9066
  - MISS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1990
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.S. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W11 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.11(k) OF THE HOWARD COUNTY CODE.



**VICINITY MAP**

SCALE: 1"=600'

WATER & SEWER CODE FOR COUNTY USE ONLY	NOT APPLICABLE
WATER NO.:	H-05
SEWER NO.:	125300
WATER ZONE:	630
WATER TEST GRADIENT:	790

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" WATER	628.50 L.F.			
8" X 8" TEE	1 EACH			
8" VALVE	1 EACH			
8"-1/16 V.B.	1 EACH			
8"-1/16 H.B.	2 EACH			
8" PLUG & BUTTRESS	2 EACH			
AIR RELEASE MANHOLE	2 EACH			
8" SEWER	1,727.92 L.F.			
MANHOLES	15 EACH			
4" SEWER	29 L.F.			
8" PLUG	1 EACH			
8"-1/8 H.B.	1 EACH			
8"-1/8 V.B.	2 EACH			

**DEVELOPER'S CERTIFICATION**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*Paul W. Reed* FOR: STONECREST MANOR, LLC  
 SIGNATURE OF DEVELOPER  
 02/06/01  
 DATE

**ENGINEER'S CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John McClain*  
 SIGNATURE OF ENGINEER  
 2/6/01  
 DATE

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

*Jim Myers*  
 H.D.A. NATURAL RESOURCES CONSERVATION SERVICE  
 2/13/01  
 DATE

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

APPROVED:  
*John R. Robertson*  
 HOWARD SOIL CONSERVATION DISTRICT  
 2/13/01  
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS.

GP-01-126

*Paul W. Reed* FOR: STONECREST MANOR, LLC  
 SIGNATURE OF DEVELOPER  
 02/06/01  
 DATE

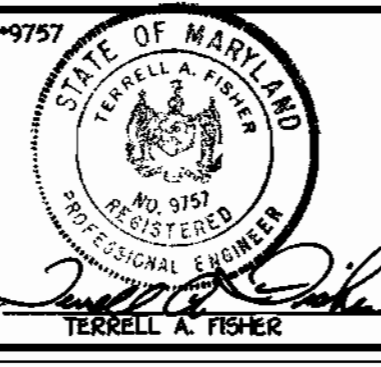
CONTRACT No. 14-3920-D  
**NEW CUT ROAD  
 WATER AND SEWER MAIN  
 EXTENSIONS**  
 HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3920-D  
 NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*Ruth Beemer*  
 CHIEF, BUREAU OF UTILITIES  
 02-08-01  
 DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
*John P. ...*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 2/6/01  
 DATE

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 1800 461 - 2555



DESIGNED BY:	M.D.T.	
DRAWN BY:	M.D.T.	
CHECKED BY:	P.W.K.	7-18-01
DATE:	JANUARY, 2001	7-18-01
BY:	NO.	

TITLE SHEET
600' SCALE MAP NO. 22 BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 532
FILE NAME: 535 NEW CUT ROAD WATSEW TITLE SHT1

**NEW CUT ROAD  
 WATER AND SEWER MAIN EXTENSIONS**  
 CONTRACT NO. 14-3920-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 6