

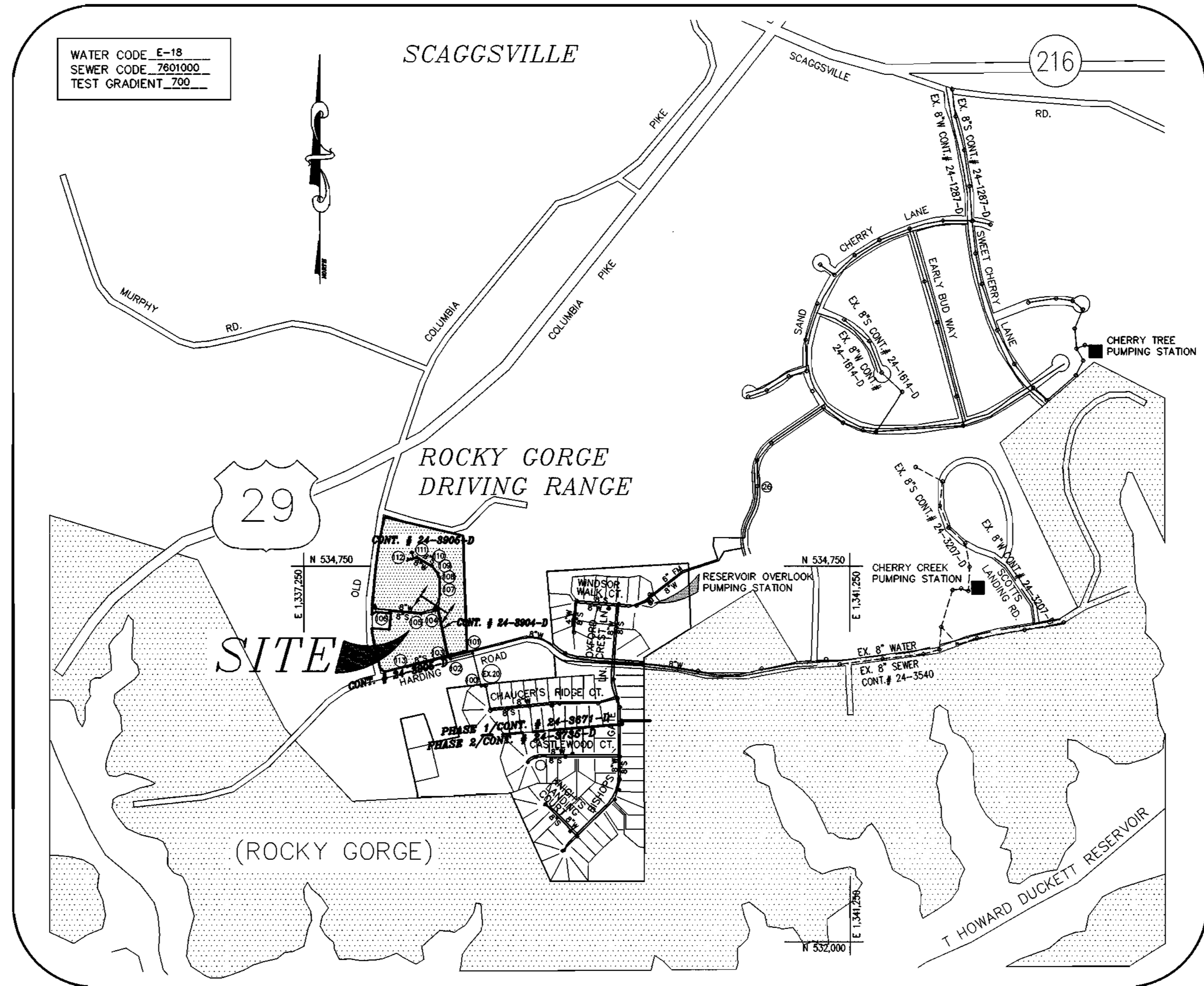
QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	6			
TYPE B DROP MH	1			
8" SEWER MAIN	820 L.F.			
4" SEWER HOUSE CONNECTION	504 L.F.			
# DROP HOUSE CONNECTIONS	4			
# SEWER HOUSE CONNECTIONS	7			
# MH CONNECTIONS	7			
8" WATER	504 L.F.			
6" WATER	50 L.F.			
1" WHC	463 L.F.			
# WHC	16			
8"x6" T	1			
6" V	1			
FIRE HYDRANTS	1			
8" CAP & BUTTRESS	1			
1/8 HB	1			
1/16 HB	3			
1/32 HB	2			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILE



VICINITY MAP

SCALE : 1" = 600'

TYPE OF BUILDING	SFD
No. OF UNITS	28
No. OF WATER HOUSE CONNECTION	16
No. OF TWIN WATER HOUSE CONNECTION	N/A
No. OF SEWER HOUSE CONNECTIONS	18
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT

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". 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 BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWNED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION (410) 531-5533
BG & E CO. CONTRACTOR SERVICES (410) 850-4620
BG & E CO. UNDERGROUND DAMAGE CONTROL (410) 787-9068
MISS UTILITY 1-800-257-7777
COLONIAL PIPELINE CO. (410) 795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES (410) 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED OUTSIDE 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 SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. 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.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 65.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ALL WATER METERS TO BE LOCATED INSIDE PROPOSED UNITS.
- STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- ALL CLEANOUTS AND BALL VALVES ARE TO BE LOCATED AT THE WATER, SEWER AND UTILITY EASEMENT LINE.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- ON-SITE SEDIMENT CONTROL TO BE PROVIDED BY F-01-88.
- ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.
- ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.
- ALL CELLARS WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.
- THERE WILL BE NO TWIN SEWER HOUSE CONNECTIONS ON SITE UNLESS APPROVED BY HOWARD COUNTY.
- ALL WATER MAINS TO BE 8", 6", OR 4" DIP CLASS 52.
- STORM DRAIN SYSTEM INDICATED FOR INFORMATIONAL PURPOSES ONLY. SEE ROAD PLANS FOR CONSTRUCTION DATA.
- COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.
- IF MATERIAL IS WITHIN 8% OF OPTIMUM MOISTURE, WORKING THE MATERIAL UNTIL REQUIRED COMPACTION IS ACHIEVED IS CONTRACTOR'S RESPONSIBILITY.
- THE CONSTRUCTION IS TO BE LIMITED TO THAT WHICH CAN BE BACKFILLED AND STABILIZED IN ANY ONE WORKING DAY.
- THE SPOIL FROM THE TRENCH OPERATIONS IS TO BE PLACED ON THE UPHILL SIDE OF CONSTRUCTION.

**CONTRACT NO.: 24-3905-D
JAMESTOWN LANDING,
LOTS 2 THRU 31
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

OWNER
TANTRERA, LC
6820 ELM STREET, SUITE 200
MCLEAN, VIRGINIA 22101
(703) 734-9730

JAMESTOWN LANDING
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-3905-D

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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.

Russell Dickens 2/15/01
DEVELOPER'S SIGNATURE DATE
RUSSELL DICKENS, MANAGER, TANTRERA, L.C.
DEVELOPER'S NAME

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 B. Mildenberg 2/14/01
ENGINEER'S SIGNATURE DATE
JOHN B. MILDENBERG
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Jin Myers /cs 2/26/01
USDA/NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Shelly Selig 2/26/01
HOWARD SCD DATE

* Sediment Controls to be installed under F-01-88

DPZ FILE NOS.
F-00-169
SP-01-01
F-01-88

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Robert M. Bauman 2-20-01
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 2/16/01
CHIEF, DEVELOPMENT-ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0296 Fax (301) 621-5521 Wash. (410) 987-0298 Fax

engineering SJD
illustration SJD
approval
project 2000-020
date FEB 2001 BY NO. REVISION DATE

TITLE SHEET

600' SCALE MAP NO. 46 BLOCK NO. 15

**JAMESTOWN LANDING,
LOTS 2 THRU 31**
CONTRACT NO. 24-3905-D
TAX MAP 46 PARCEL 230
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale AS SHOWN
1 of 3

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WATER MAIN TABULATION CHART

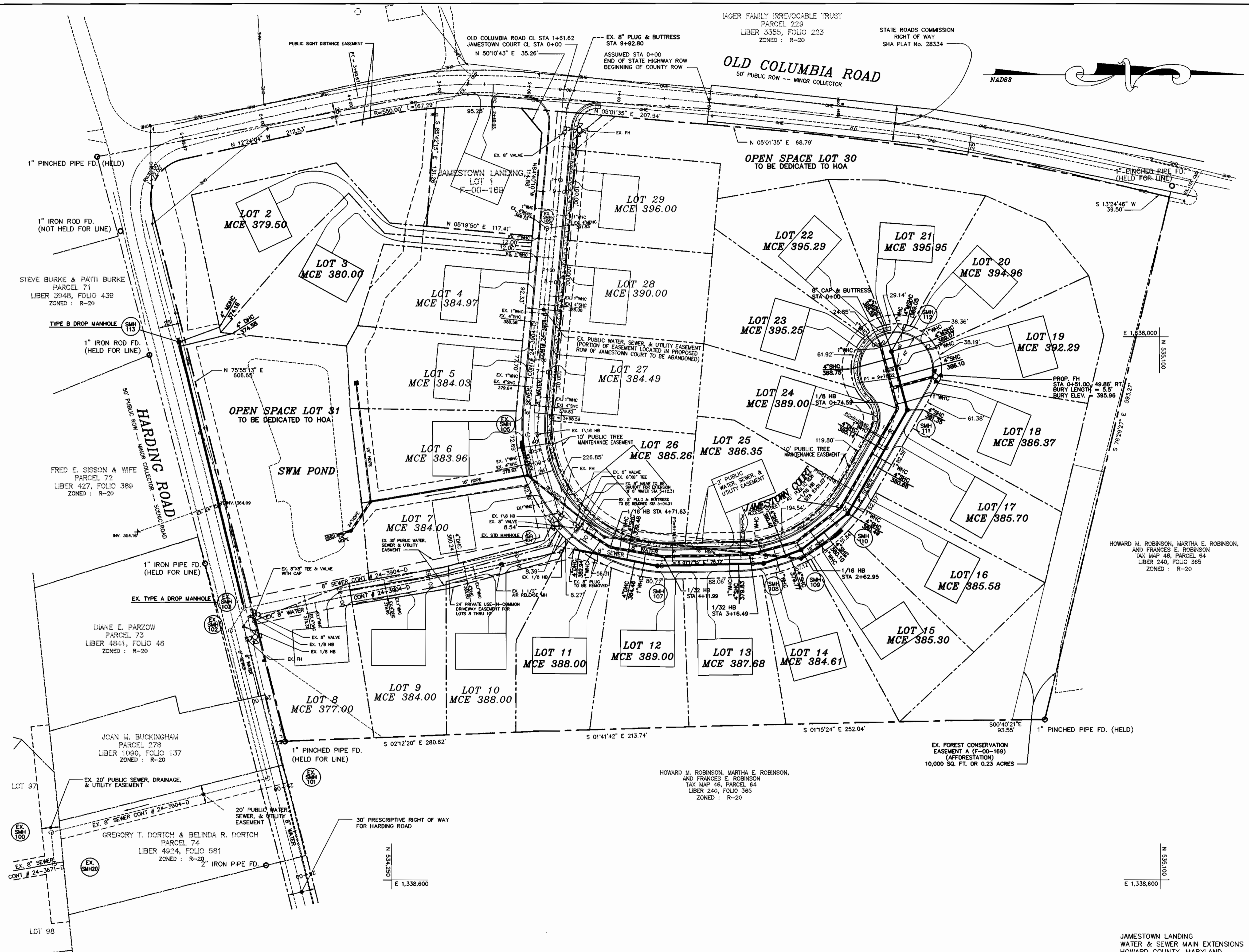
JAMESTOWN COURT	
STATION & OFFSET	APPURTENANCE
STA 5+07.51, 0.76' LEFT	EX. 8" PLUG & BUTTRESS TO BE REMOVED
STA 5+40.34, 0.06' LEFT	1/16 HB
STA 6+04.65, 4.65' LEFT	1/32 HB
STA 6+97.33, 4.67' LEFT	1/32 HB
STA 7+52.78, 4.06' LEFT	1/16 HB
STA 8+16.63, 3.04' LEFT	1/16 HB
STA 9+44.06, 0.98' RIGHT	1/8 HB
STA 9+66.97, 6.99' LEFT	8"x6" T
STA 9+67.46, 5.05' LEFT	6" V
STA 9+75.30, 41.96' RIGHT	FH
LP STA 1+17.82, 6.45' RIGHT	8" CAP & BUTTRESS

NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING APPURTENANCES.

MANHOLE LOCATION CHART

MH #	STATION & OFFSET OR NORTHING & EASTING
EX. 103	N 534,086.763 E 1,338,299.281
EX. 104	JAMESTOWN COURT STA 4+90.54, 36.47' RIGHT
107	JAMESTOWN COURT STA 5+85.25, 5.92' RIGHT
108	JAMESTOWN COURT STA 7+11.22, 7.00' RIGHT
109	JAMESTOWN COURT STA 7+53.43, 6.00' RIGHT
110	JAMESTOWN COURT STA 9+16.71, 7.00' RIGHT
111	JAMESTOWN COURT STA 9+44.62, 11.78' RIGHT
112	JAMESTOWN COURT LP STA 1+29.88, 20.00' RIGHT
113	N 534,015.468 E 1,338,005.218

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.



DEZ FILE NOS.
F-00-169
SF-01-01
F-01-88

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 2-20-01
CHIEF, BUREAU OF UTILITIES

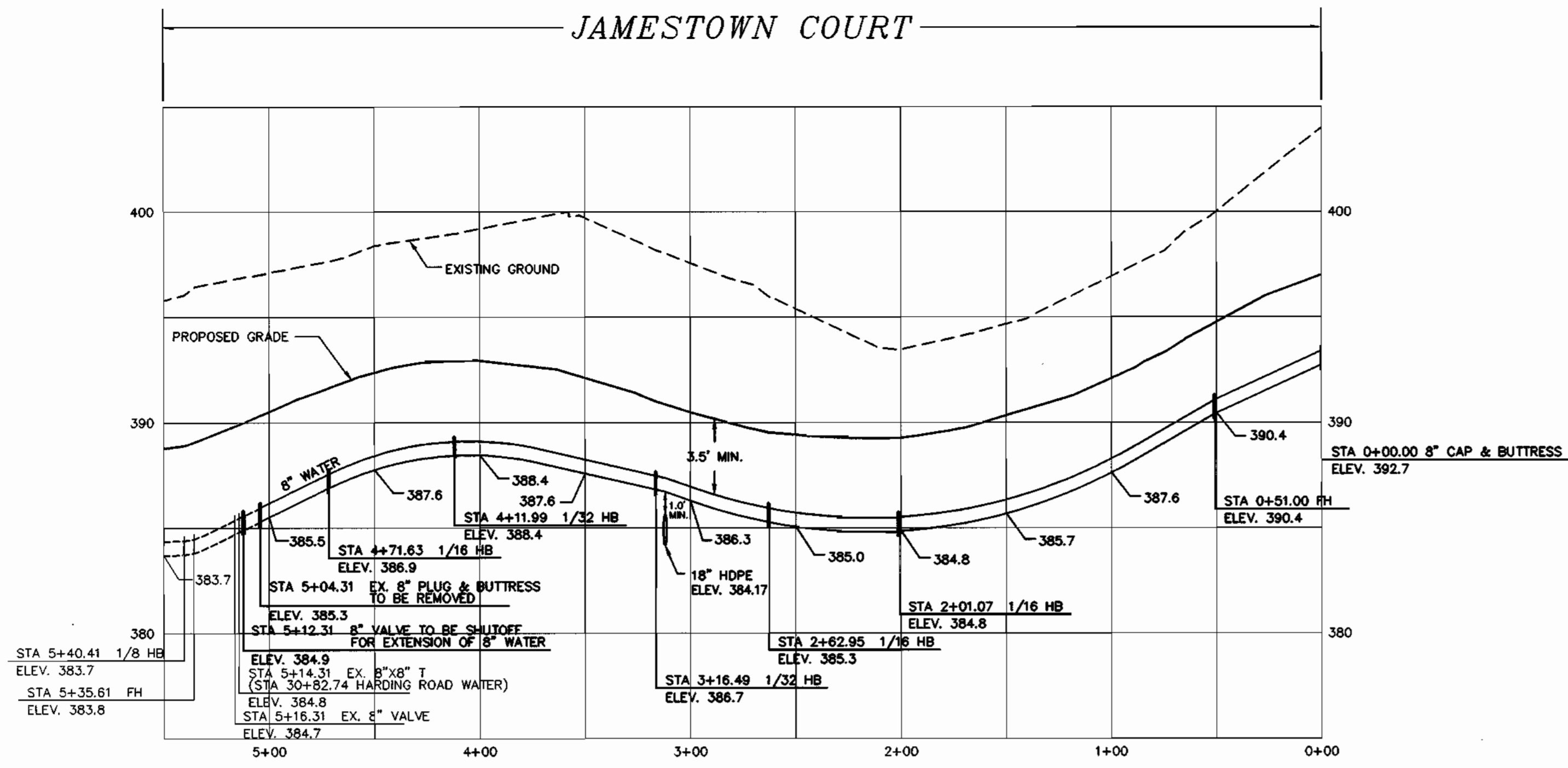
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
DATE: 2/20/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0298 Fax

engineering	SJD				
illustration	SJD				
approval					
project	2000-020				
date	FEB 2001	BY	NO.	REVISION	DATE

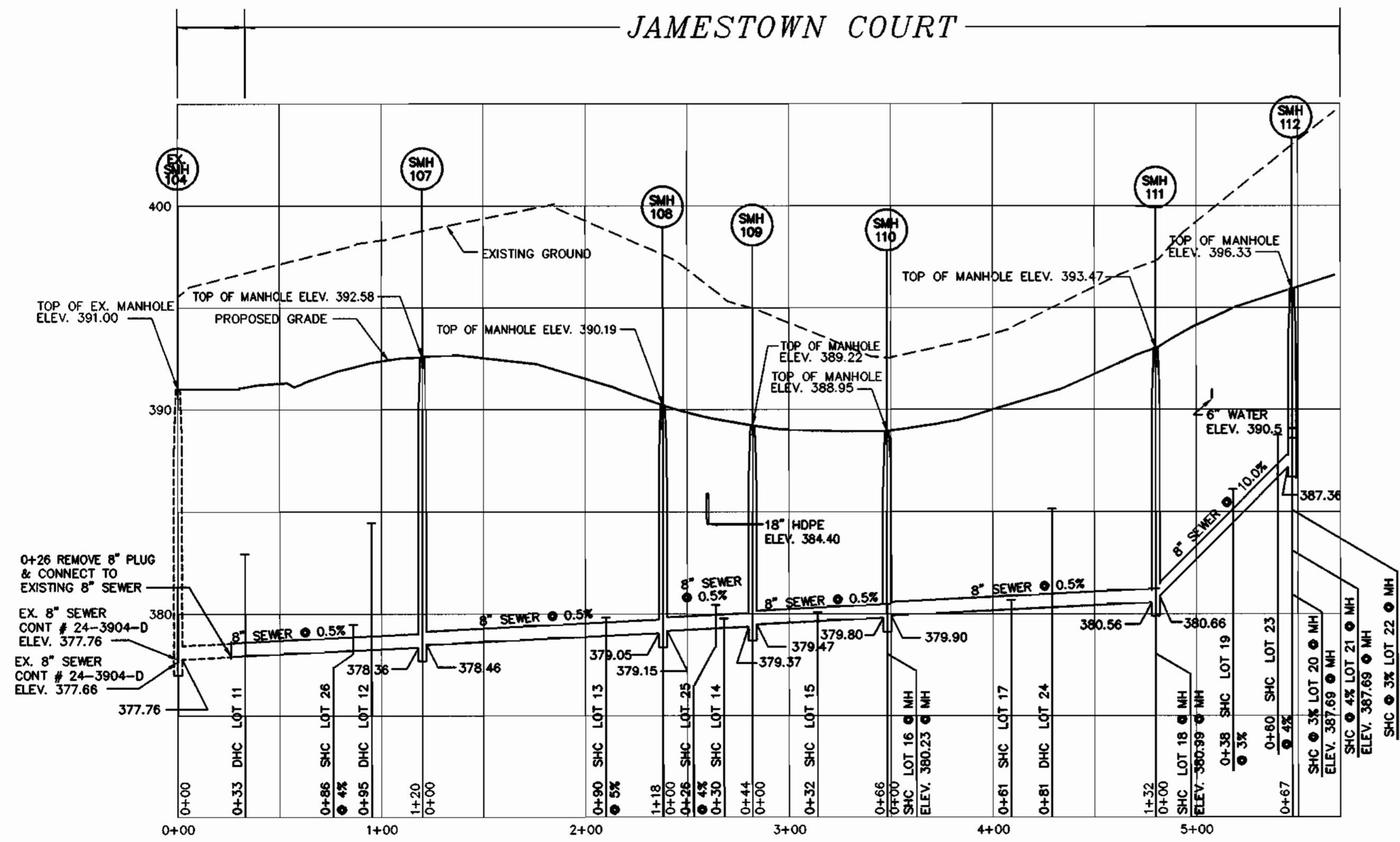
WATER & SEWER PLAN
600' SCALE MAP NO. 46 BLOCK NO. 15

JAMESTOWN LANDING
LOTS 1 & 4 THRU 10 & 27 THRU 29
CONTRACT NO. 24-3905-D
TAX MAP 46 PARCEL 230
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
scale 1" = 50'
2 of 3

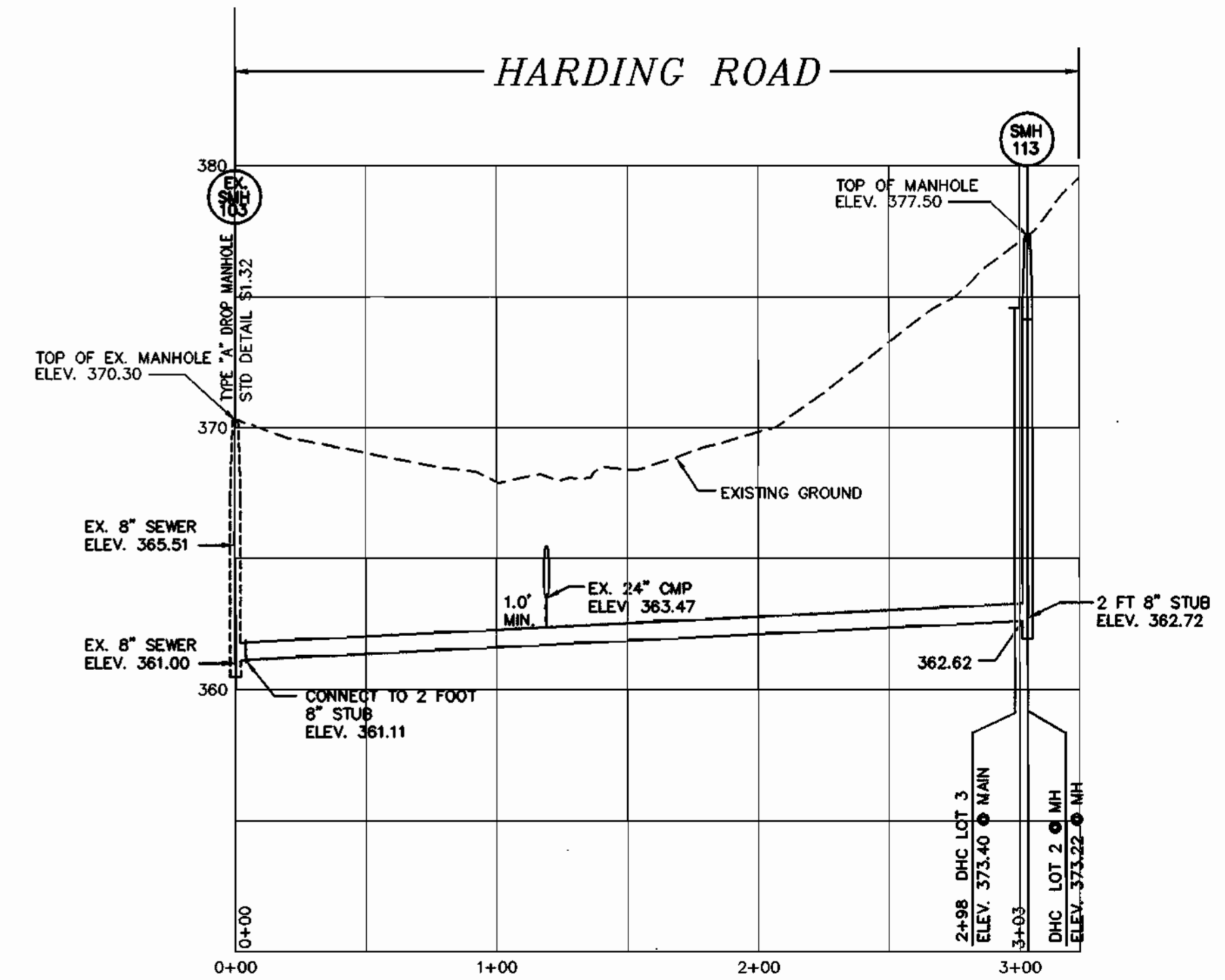


JAMESTOWN COURT WATER PROFILE
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

PUBLIC SEWER & UTILITY EASEMENT



SEWER PROFILE FROM EX. SMH 104 TO SMH 112
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'



SEWER PROFILE FROM EX. SMH 103 TO SMH 113
 HORIZONTAL SCALE : 1" = 50'
 VERTICAL SCALE : 1" = 5'

DEZ FILE NOS.
 F-00-169
 SP-01-01
 F-01-88

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors

5072 Dorsay Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 991-0296 Fax (301) 821-5521 Wash. (410) 991-0298 Fax

engineering	SJD		
illustration	SJD		
approval			
project	2000-020		
date	FEB 2001		
BY	NO.	REVISION	DATE

WATER & SEWER PROFILES

JAMESTOWN LANDING, LOTS 2 THRU 31
 CONTRACT NO. 24-3905-D
 TAX MAP 46 PARCEL 230
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale
 AS SHOWN

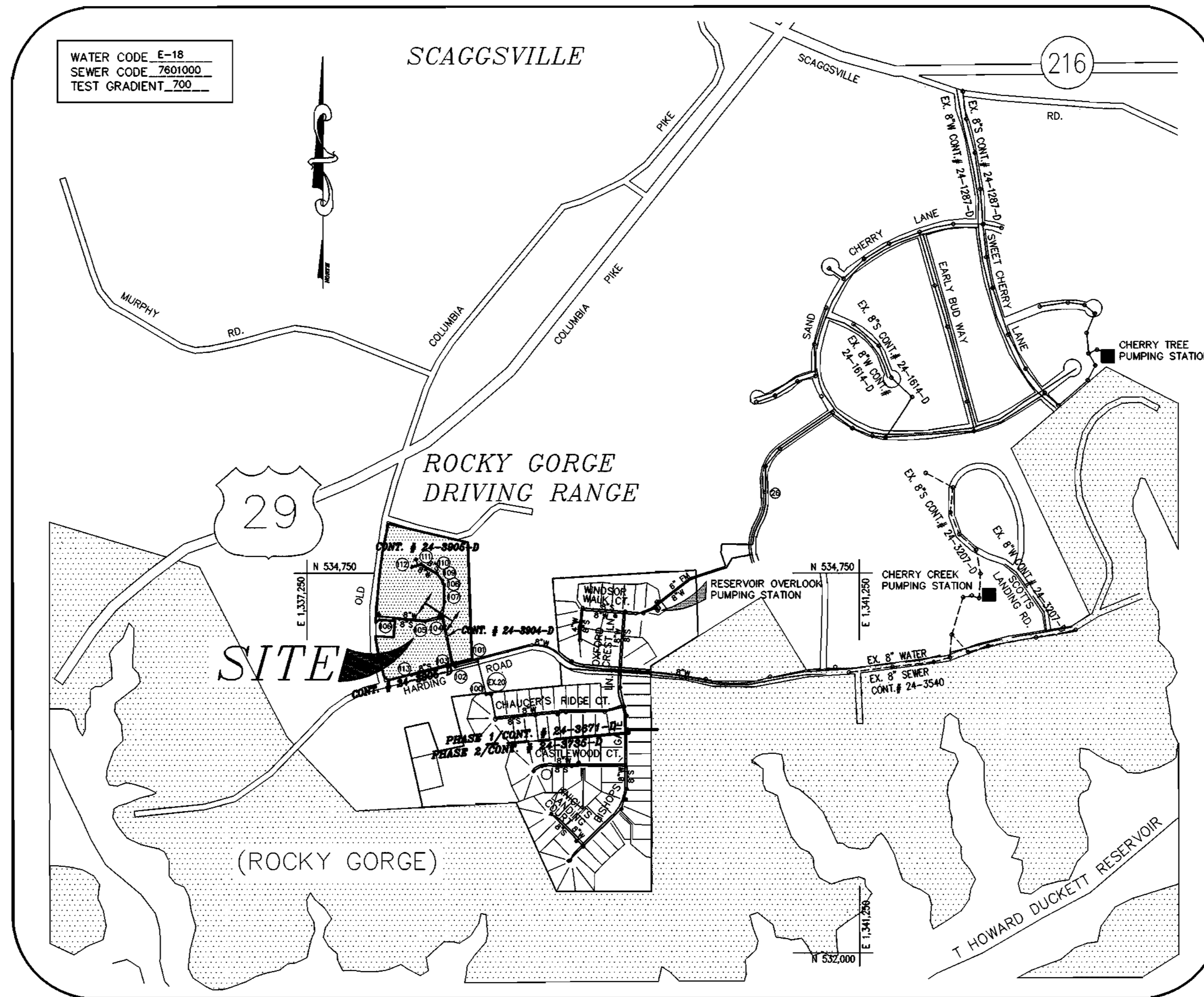
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QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	6	7		CONTRACTORS PRECAST
TYPE B DROP MH A.C. STOP	+	—		
8" SEWER MAIN	820 L.F.	837'		DIAMOND
4" SEWER HOUSE CONNECTION	504 L.F.	521'		"
# DROP HOUSE CONNECTIONS	4	3		"
# SEWER HOUSE CONNECTIONS	7	6		"
# MH CONNECTIONS	7	7		DIAMOND
8" WATER	504 L.F.	504'		TYLER
6" WATER	50 L.F.	57'		TYLER
1" WHC	463 L.F.	449'		HOWELL
# WHC	16	16		
8"x6" T	1	1		TYLER
6" V	1	1		KENNEDY
FIRE HYDRANTS	1	1		KENNEDY
8" CAP & BUTTRESS	1	1		TYLER
1/8 HB	1	1		"
1/16 HB	3	3		"
1/32 HB	2	2		TYLER
NAME OF UTILITY CONTRACTOR: GAINES				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILE



VICINITY MAP

SCALE : 1" = 600'

TYPE OF BUILDING	SFD
No. OF UNITS	28
No. OF WATER HOUSE CONNECTION	16
No. OF TWIN WATER HOUSE CONNECTION	N/A
No. OF SEWER HOUSE CONNECTIONS	18
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT

**CONTRACT NO.: 24-3905-D
JAMESTOWN LANDING,
LOTS 2 THRU 31
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

OWNER

TANTERRA, L.C.
6820 ELM STREET, SUITE 200
MCLEAN, VIRGINIA 22101
(703) 734-9730

JAMESTOWN LANDING
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
CONTRACT No. 24-3905-D

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.
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I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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.

Russell Dickens 2/15/01
DEVELOPER'S SIGNATURE DATE
RUSSELL DICKENS, MANAGER, TANTERRA, L.C.
DEVELOPER'S NAME

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 B. Mildeberg 2/15/01
ENGINEER'S SIGNATURE DATE
JOHN B. MILDEBERG
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Jin Munn 2/26/01
USDA NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Gail A. Selig 2/26/01
HOWARD SCD DATE

* Sediment Controls to be installed under F-01-88

DPZ FILE NOS.
F-00-169
SP-01-01
F-01-88

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0286 Balt. (301) 621-5521 Wash. (410) 997-0286 Fax

engineering	SJD			
illustration	SJD			
approval				
project	2000-020	JMT	1	PER AS-BUILT
date	FEB 2001	BY	NO.	REVISION

TITLE SHEET

**JAMESTOWN LANDING,
LOTS 2 THRU 31**
CONTRACT NO. 24-3905-D
TAX MAP 46 PARCEL 230
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
AS SHOWN

1 of 3

WATER MAIN TABULATION CHART

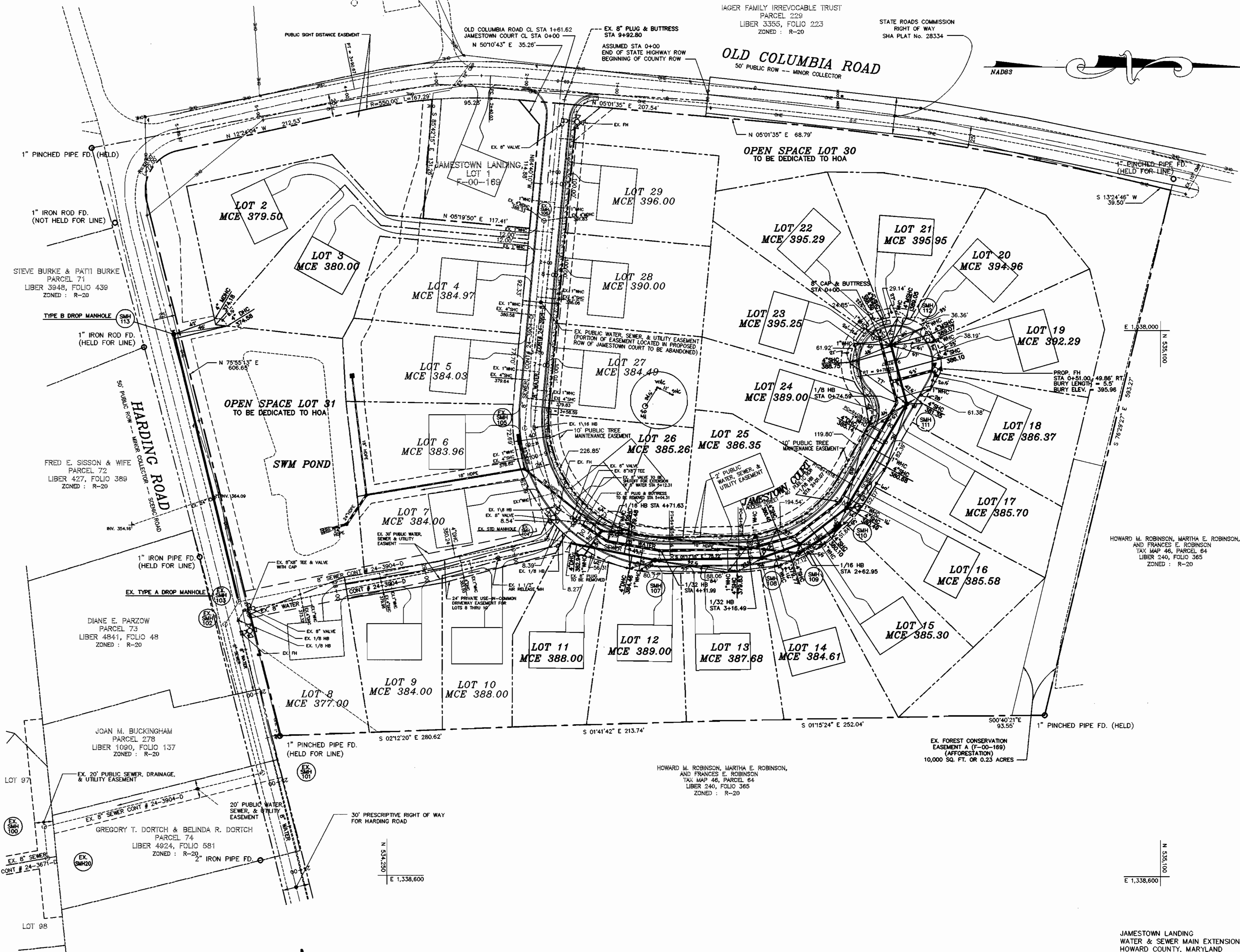
STATION & OFFSET	APPURTENANCE
STA 5+07.51, 0.76' LEFT	EX. 8" PLUG & BUTTRISS TO BE REMOVED
STA 5+40.34, 0.06' LEFT	1/16 HB
STA 6+04.65, 4.65' LEFT	1/32 HB
STA 6+97.33, 4.67' LEFT	1/32 HB
STA 7+52.78, 4.06' LEFT	1/16 HB
STA 8+16.63, 3.04' LEFT	1/16 HB
STA 9+44.06, 0.98' RIGHT	1/8 HB
STA 9+66.97, 6.99' LEFT	8"x6" T
STA 9+67.46, 5.05' LEFT	6" V
STA 9+75.30, 41.96' RIGHT	FH
LP STA 1+17.82, 6.45' RIGHT	8" CAP & BUTTRISS

NOTE: - CONTRACTOR TO VERIFY THE LOCATION OF EXISTING APPURTENANCES.

MANHOLE LOCATION CHART

MH #	STATION & OFFSET OR NORTHING & EASTING
EX. 103	N 534,086.783 E 1,338,299.281
EX. 104	JAMESTOWN COURT STA 4+90.54, 36.47' RIGHT
107	JAMESTOWN COURT STA 5+95.25, 5.92' RIGHT
108	JAMESTOWN COURT STA 7+11.22, 7.00' RIGHT
109	JAMESTOWN COURT STA 7+53.43, 6.00' RIGHT
110	JAMESTOWN COURT STA 8+16.71, 7.09' RIGHT
111	JAMESTOWN COURT STA 9+44.62, 11.78' RIGHT
112	JAMESTOWN COURT LP STA 7+29.88, 20.00' RIGHT
113	N 534,015.468 E 1,338,005.218

NOTE: CONTRACTOR TO VERIFY THE LOCATION OF APPURTENANCES WITHIN EASEMENTS.



D:\Projects\10-24-02\10-24-02.dwg 2-15-01 10:24:52 am EST

DEZ FILE NOS.
F-00-169
SP-01-01
F-01-88

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 2-20-01
CHIEF, BUREAU OF UTILITIES

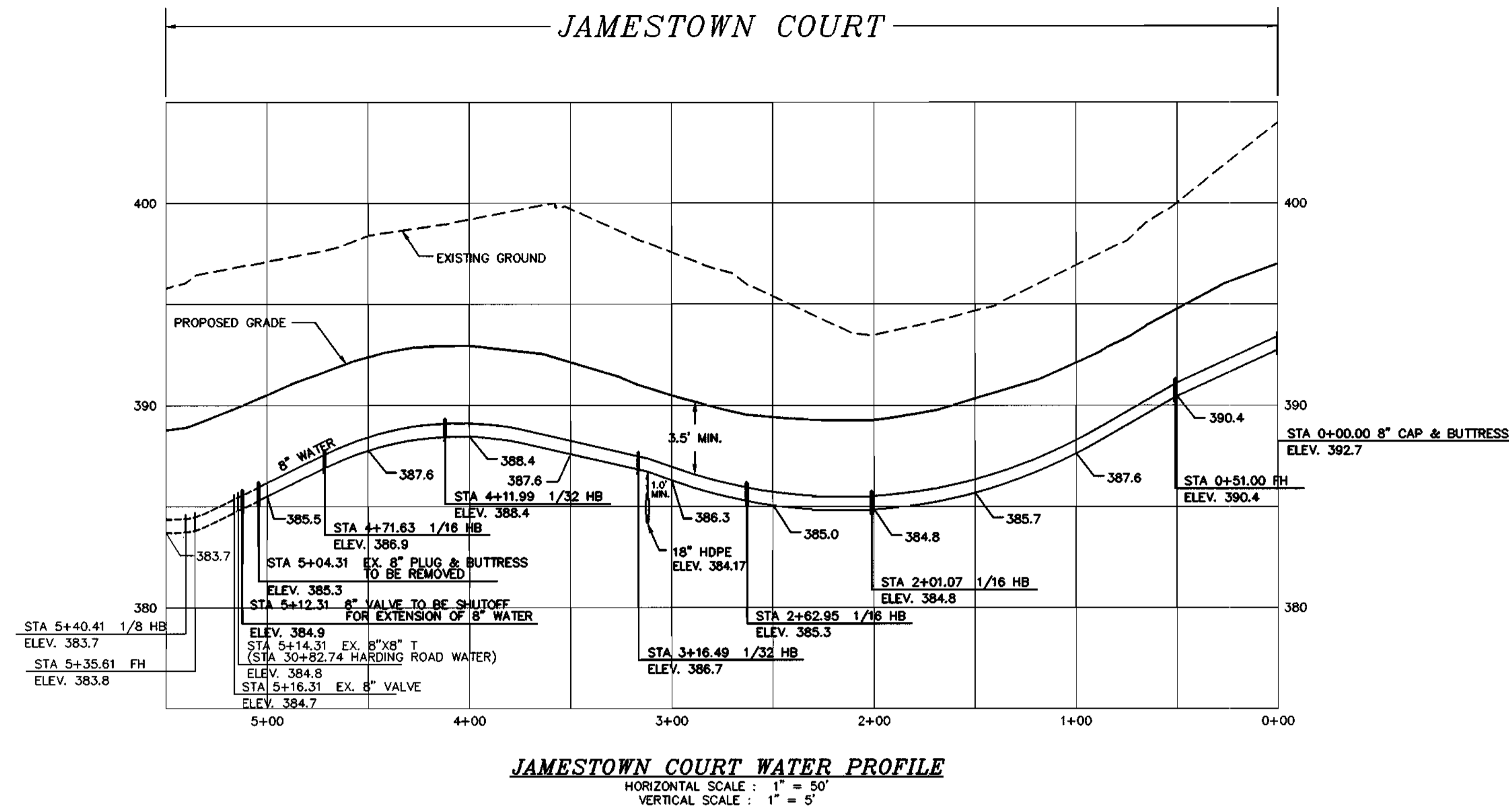
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
DATE: 2/20/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Fax (301) 621-5521 Wash. (410) 997-0298 Fax

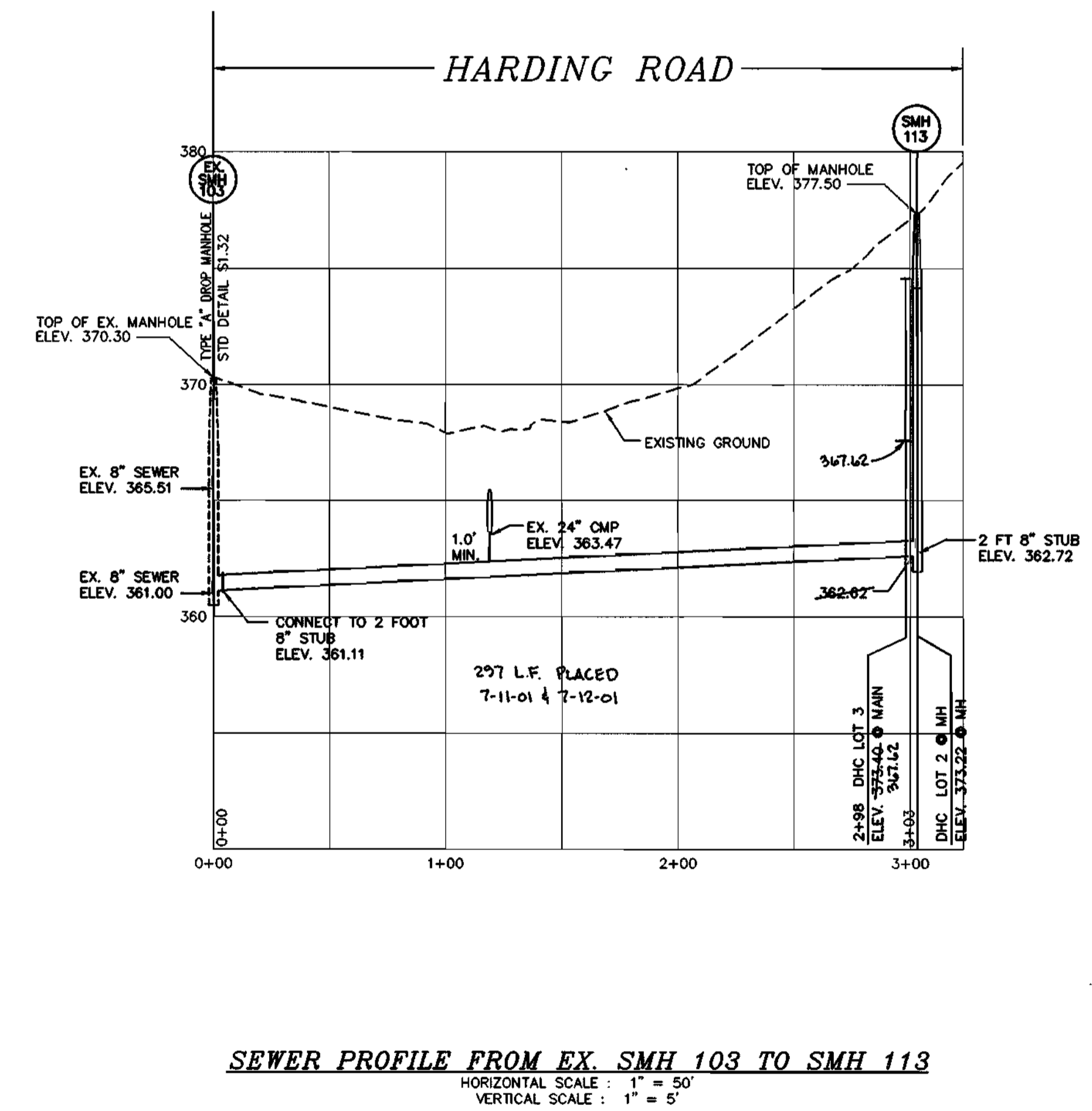
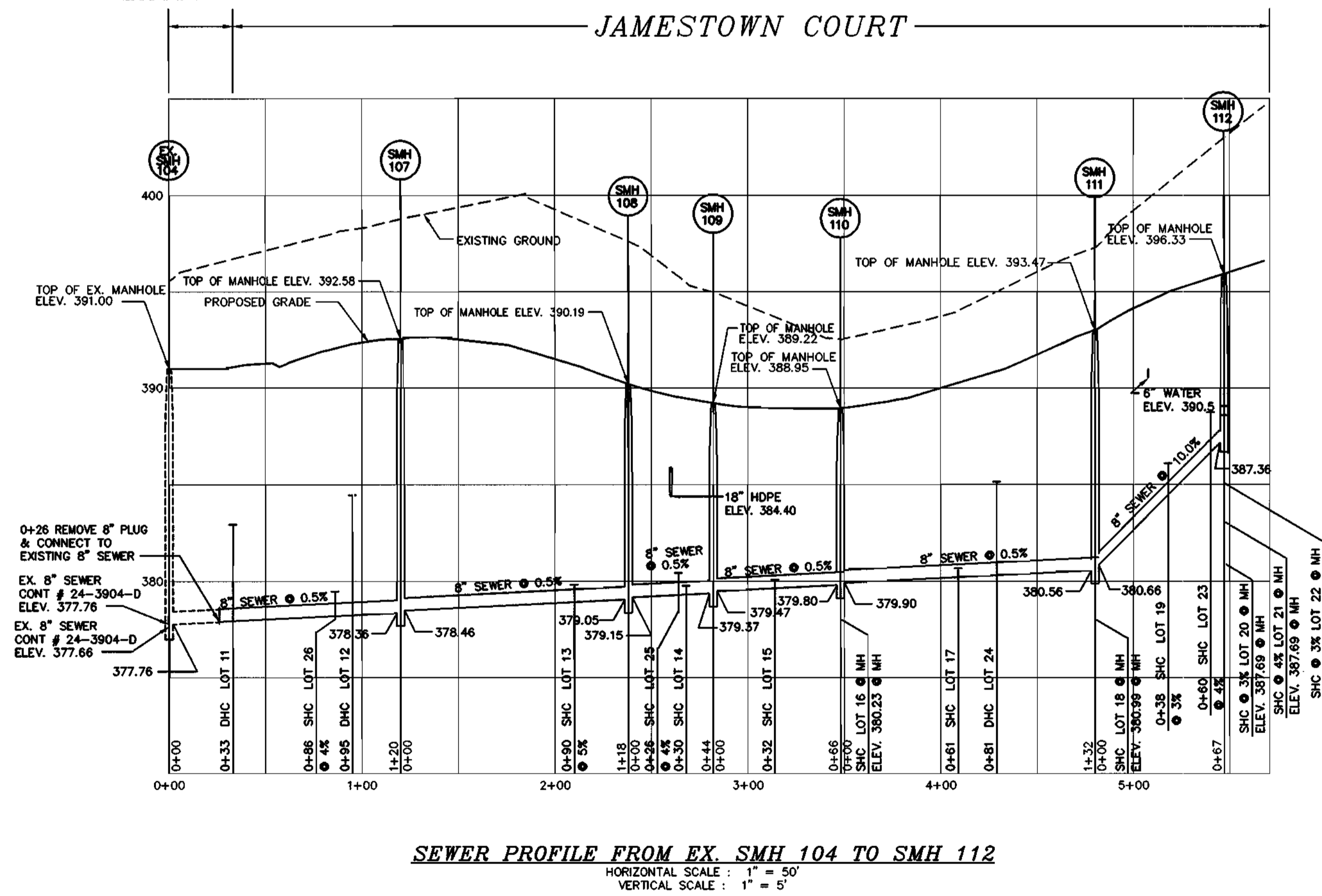
engineering	SJD				
illustration	SJD				
approval					
project	2000-020	JMT	1	PER AS-BUILT	10-19-01
date	FEB 2001	BY	NO.	REVISION	DATE

WATER & SEWER PLAN
600' SCALE MAP NO. 46 BLOCK NO. 15

**JAMESTOWN LANDING,
LOTS 1 & 4 THRU 10 & 27 THRU 29**
CONTRACT NO. 24-3905-D
TAX MAP 46 PARCEL 230
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
scale 1" = 60'
2 of 3



PUBLIC SEWER & UTILITY EASEMENT



DPZ FILE NOS.
 F-00-169
 SP-01-01
 F-01-88

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

[Signature]
 CHIEF, BUREAU OF UTILITIES

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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engineering	SJD				
illustration	SJD				
approval					
project	2000-020	JMT	1	PER A9-BUILT	12-19-01
date	FEB 2001	BY	NO.	REVISION	DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 46 BLOCK NO. 15

JAMESTOWN LANDING, LOTS 2 THRU 31
 CONTRACT NO. 24-3905-D
 TAX MAP 46 PARCEL 230
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

scale AS SHOWN
 3 of 3

JAMESTOWN LANDING
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 24-3905-D

00-020.dwg\10-21-01-21-01-01-10-23-08 am EST