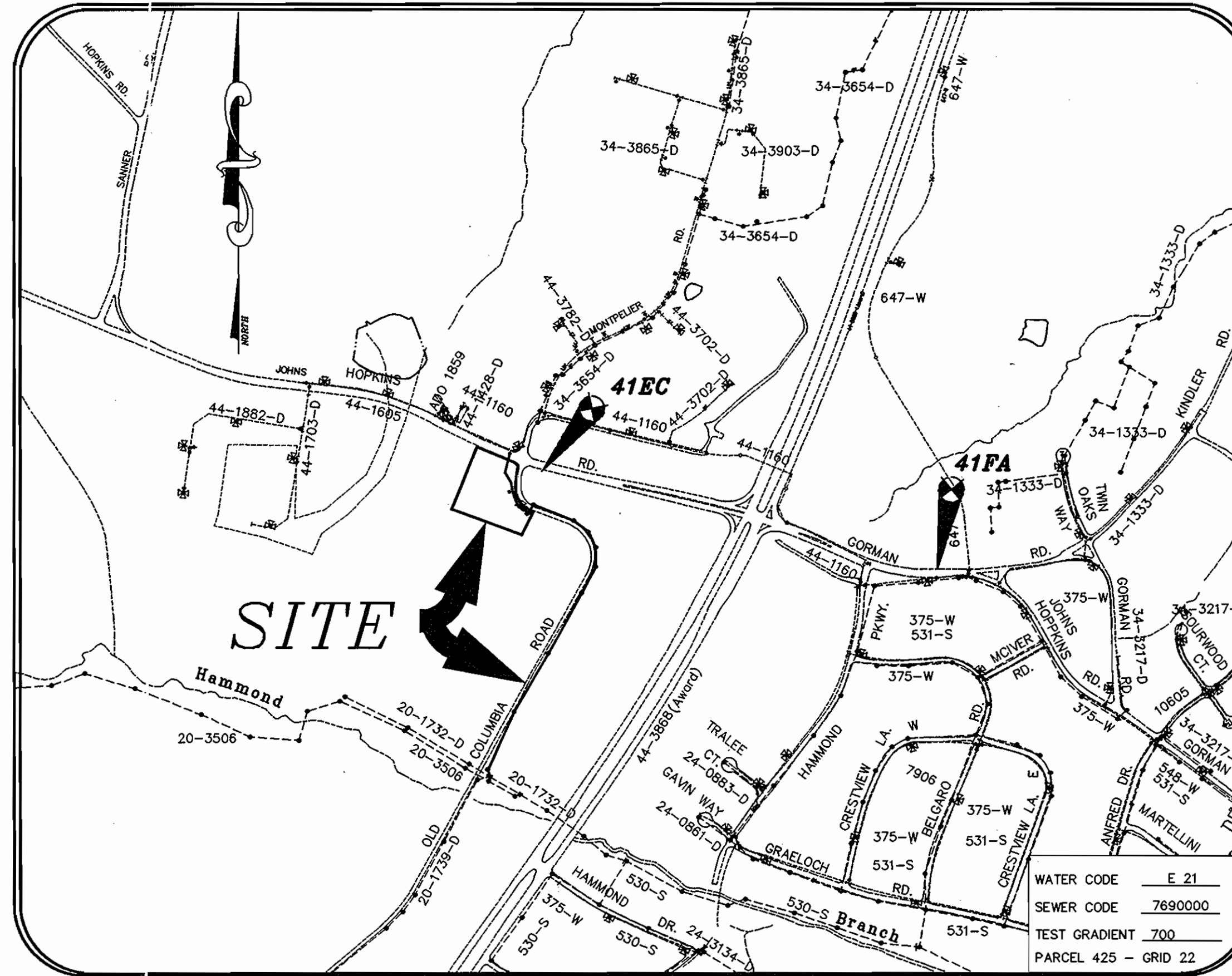


QUANTITY TABLE

| ITEMS | QUANTITIES ESTIMATED | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
|---|----------------------|------------|---------|-----------------------|
| STANDARD MH (HO. CO. STD.G-5.12) | 10 EACH | 9 EACH | CONC. | ATLANTIC CONC. |
| 8" SEWER MAIN | 1926 L.F. | 1926 L.F. | SDR35 | NORTH AMERICAN |
| 6" SEWER HOUSE CONNECTION | 223 L.F. | 223 L.F. | SDR35 | GRIFFIN PIPE |
| # 6" SEWER HOUSE CONNECTIONS | 1 EACH | 1 EACH | CONC. | --- |
| 8" WATER MAIN | 370 L.F. | 369 L.F. | D.I.P. | GRIFFIN PIPE |
| 6" WATER HOUSE CONNECTION | 94 L.F. | 48 L.F. | D.I.P. | GRIFFIN PIPE |
| # 6" WATER HOUSE CONNECTIONS | 1 EACH | 1 EACH | --- | --- |
| 1/8 H.B. (8") | 2 EACH | 0 | --- | --- |
| 8" CAP & BUTTRESS | 1 EACH | 1 EACH | D.I.P. | UNION FOUNDRY |
| 1/16 HB (8") | 1 EACH | 1 EACH | D.I.P. | UNION FOUNDRY |
| 6" VALVE | 1 EACH | 2 EACH | D.I.P. | UNION FOUNDRY |
| 8" X 6" TEE | 1 EACH | 1 EACH | D.I.P. | UNION FOUNDRY |
| 8" X 6" FHT & V | 1 EACH | 1 EACH | STEEL | MUELLER COMPANY |
| 16" x 8" TS&V | 1 EACH | 1 EACH | MJ | MUELLER COMPANY |
| 1/16 VB(8") | --- | 2 EACH | D.I.P. | UNION FOUNDRY |
| DROP SANITARY MANHOLE | --- | 1 EACH | TYPE'B' | ATLANTIC CONC. |
| NAME OF UTILITY CONTRACTOR: GRAY & SON, INC. | | | | |
| SURVEY AND DRAFTING DIVISION AS-BUILT DATE: MAY 15, 2006 | | | | |

PLAN REFERENCE NUMBERS:
SDP-00-113-**GP0646**



VICINITY MAP

SCALE 1"=600'

| | |
|--------------------------------|---------------|
| TYPE OF BUILDING | COMMERCIAL |
| No. OF UNITS | 1 |
| No. OF WATER HOUSE CONNECTION | 1 |
| No. OF SEWER HOUSE CONNECTIONS | 1 |
| DRAINAGE AREA | PATUXENT |
| TREATMENT PLANT | PATUXENT WWTP |

| | |
|----------------------|---------|
| WATER CODE | E 21 |
| SEWER CODE | 7690000 |
| TEST GRADIENT | 700 |
| PARCEL 425 - GRID 22 | |

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON DECEMBER 2004 BY MILDENBERG BOENDER & ASSOCIATES, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD'83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 41FA AND NO. 41EC. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 41FA AND NO. 41EC.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWNED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES. FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS 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 LOCATIONS OF THE TEST PITS. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T1-800-252-1133
BGE(CONSTRUCTION SERVICES).....410-850-4620
BGE(EMERGENCY).....410-685-1400
BUREAU OF UTILITIES.....410-313-4900
COLONIAL PIPELINE CO.....410-795-1390
MISS UTILITY.....1-800-257-7777
STATE HIGHWAY ADMINISTRATION.....410-531-5533
VERIZON.....1-800-743-0033/410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.
- A KNOX BOX (FIRE DEPARTMENT ACCESS BOX) SHALL BE PLACED ON THE FRONT OF THE BUILDING, TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4' - 5' IN HEIGHT AND NO MORE THAN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSSED (INTEGRATED WITH THE FIRE ALARM SYSTEM). NFPA-1 10.12.1.
- BUILDING ADDRESS SIGNAGE SHALL BE PROVIDED AT THE STREET (JOHN HOPKINS ROAD).

- WATER
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

- SEWER
- 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.
 - 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 COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE 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 THE CELLAR CANNOT BE SERVED.

INDEX OF DRAWINGS

| NO. | DESCRIPTION |
|-----|--------------------------|
| 1 | TITLE SHEET |
| 2 | WATER AND SEWER PLAN |
| 3 | WATER AND SEWER PROFILES |

OWNER AND DEVELOPER

HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA 100 PKWY STE P
COLUMBIA, MARYLAND 21045-2147
(410) 730-0810

**CONTRACT NO.: 24-4311-D
HOPKINS STATION
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

AS BUILT

DATE: **MAY 15, 2006**

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.

B. Cole, Jr. 9.28.05
DEVELOPER'S SIGNATURE DATE

Hugh F. Cole, Jr.
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.

Chad Edmonson 9.28.05
ENGINEER'S SIGNATURE DATE

Chad Edmonson
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

Jim Meyer 11/30/05
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

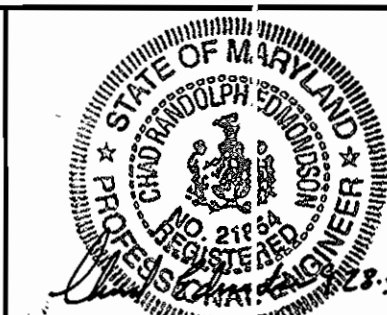
John L. Roberts 4/30/05
HOWARD SCD DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0296 Bulk (301) 621-5521 Wash. (410) 987-0298 Fax.



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|--------------|-----------|----|-----|----------|------|
| engineering | JJO | | | | |
| illustration | JJO | | | | |
| approval | HSP | | | | |
| project | 03-094 | | | | |
| date | SEPT 2005 | BY | NO. | REVISION | DATE |

TITLE SHEET

600' SCALE MAP NO. 41 BLOCK NO. 22

HOPKINS STATION

CONTRACT NO.: 24-4311-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

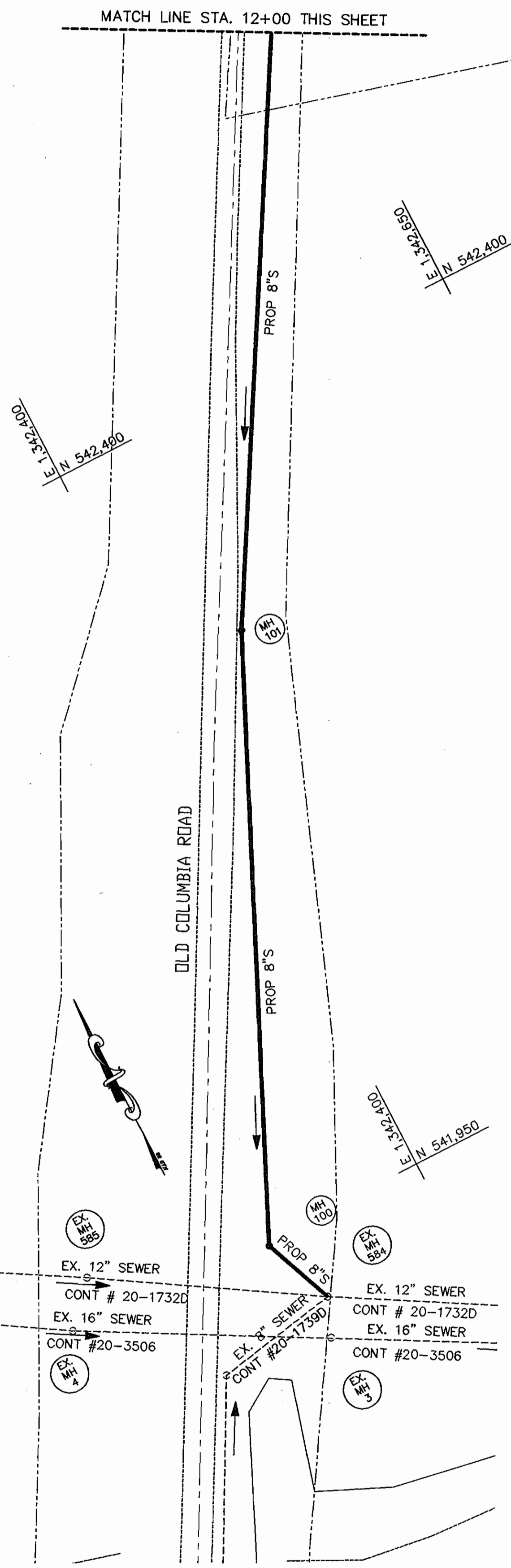
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AS SHOWN

1 OF 3

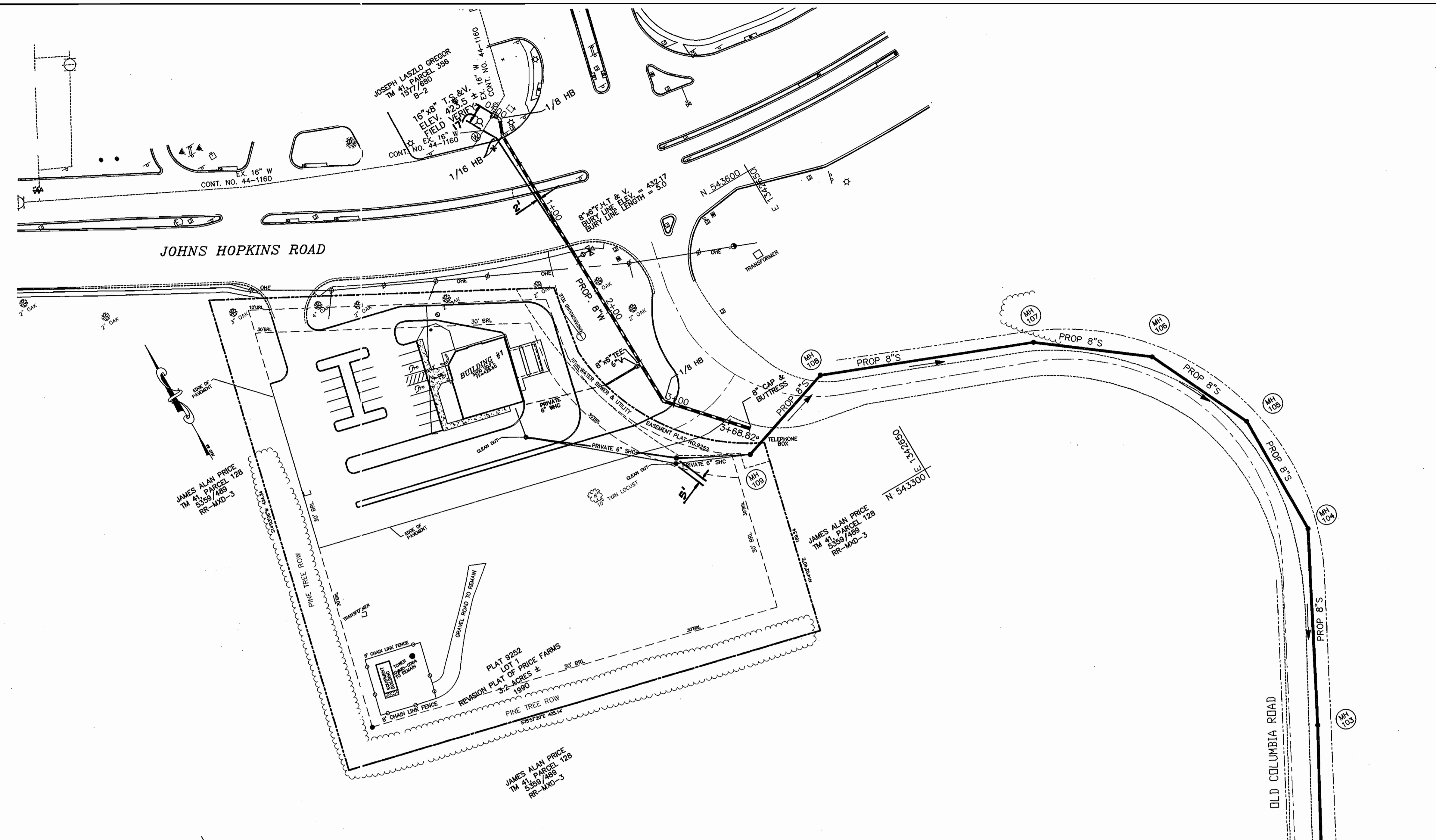
03-094.DWG (3/29/05) - w&g.DWG

Robert Bevington 10-3-05
CHIEF, BUREAU OF UTILITIES DATE

Chad Edmonson 12/6/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



PLAN VIEW
SCALE: 1"=50'



PLAN VIEW
SCALE: 1"=50'

SEWER MANHOLE LOCATION CHART

| MANHOLE NO. | NORTHING | EASTING |
|-------------|-----------|------------|
| MH 100 | 541946.96 | 1342302.11 |
| MH 101 | 542271.97 | 1342452.22 |
| MH 102 | 542600.38 | 1342643.38 |
| MH 103 | 542937.24 | 1342829.80 |
| MH 104 | 543087.64 | 1342909.04 |
| MH 105 | 543194.63 | 1342910.79 |
| MH 106 | 543284.26 | 1342868.75 |
| MH 107 | 543347.04 | 1342787.10 |
| MH 108 | 543416.21 | 1342813.87 |
| MH 109 | 543387.89 | 1342526.79 |

WATER MAIN TABULATION CHART

| APPURTENANCE | NORTHING | EASTING |
|----------------------|-------------|--------------|
| 1/8 H.B. | 543748.0358 | 1342488.0176 |
| 1/16 H.B. | 543754.3112 | 1342482.5152 |
| 8"X6" F.H.T. & VALVE | 543610.6842 | 1342485.9245 |
| 8"X6" TEE & VALVE | 543503.1708 | 1342485.1502 |
| 1/8 H.B. | 543465.9279 | 1342485.5747 |
| 8" CAP & BUTTRISS | 543407.3092 | 1342538.0076 |

AS BUILT
DATE: MAY 15, 2006

DEVELOPER
WILLIAMSBURG GROUP LLC
5485 HARPERS FARM ROAD, SUITE 200
COLUMBIA, MD 21044
(410) 997-8800

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert M. Benjamin 10-3-05
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
William D. ... 12/1/05
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 (001) 621-5521 Wash. (410) 997-0298 Fax



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| engineering | JJO | | | | |
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| project | 03-094 | | | | |
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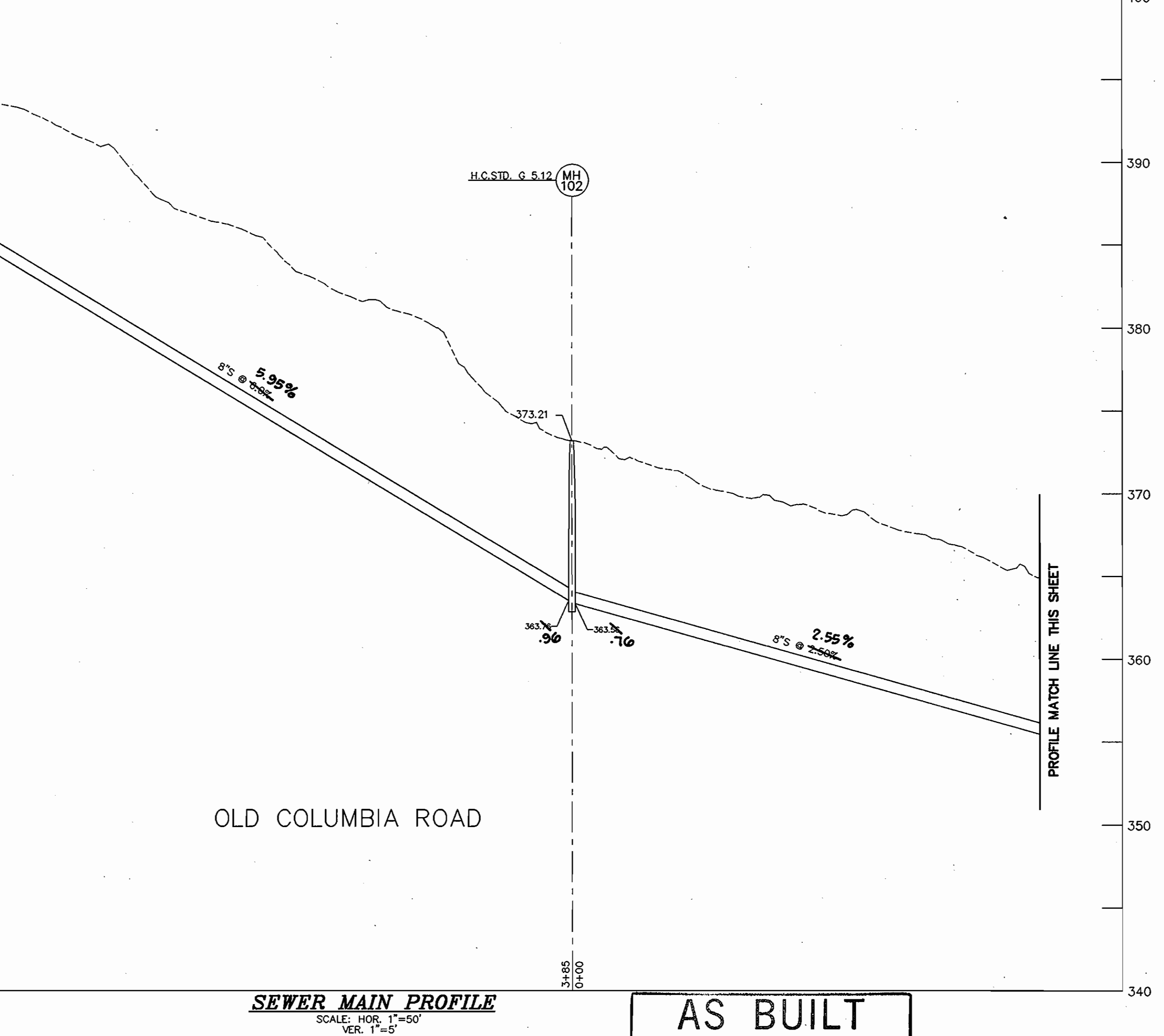
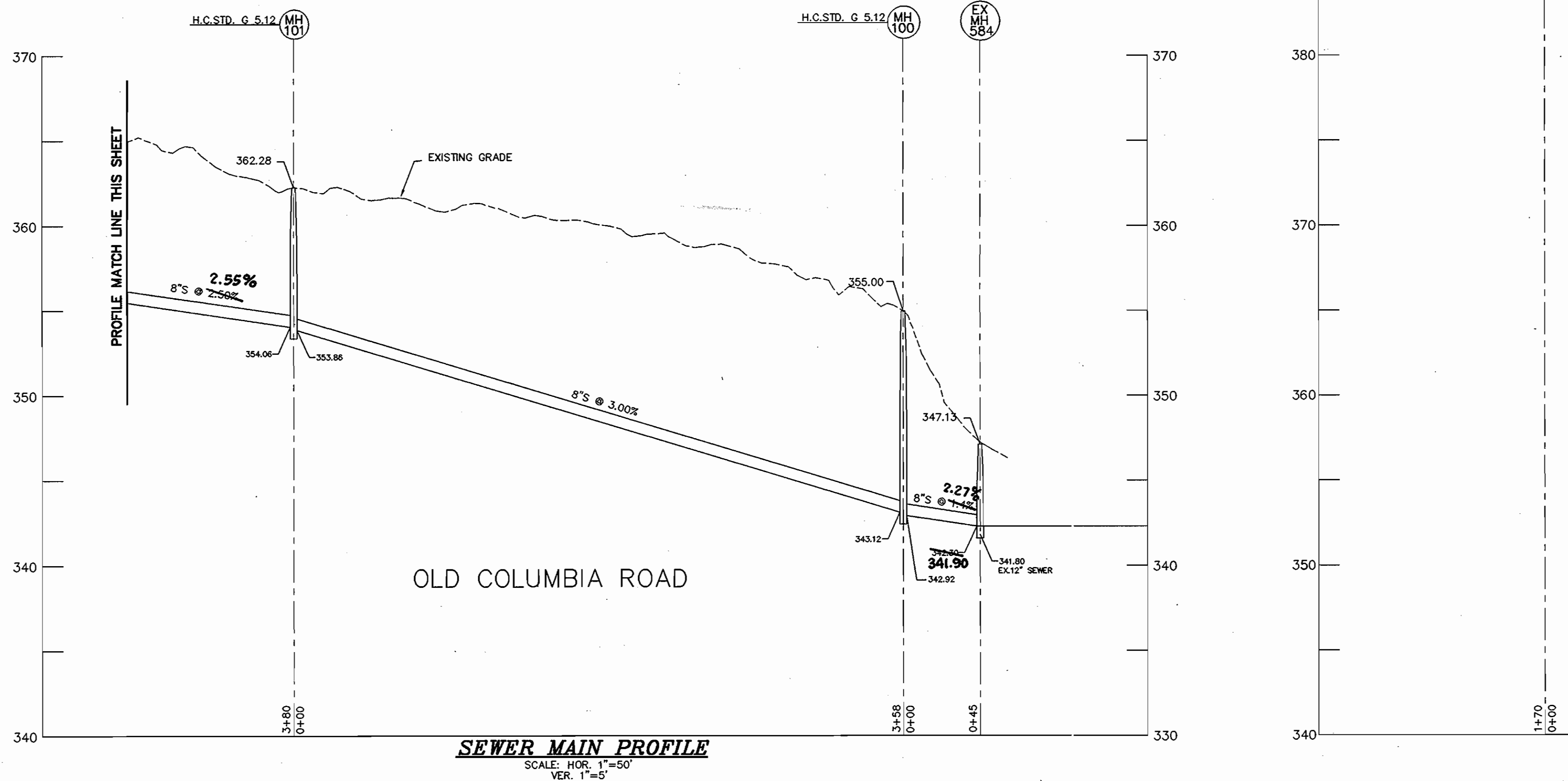
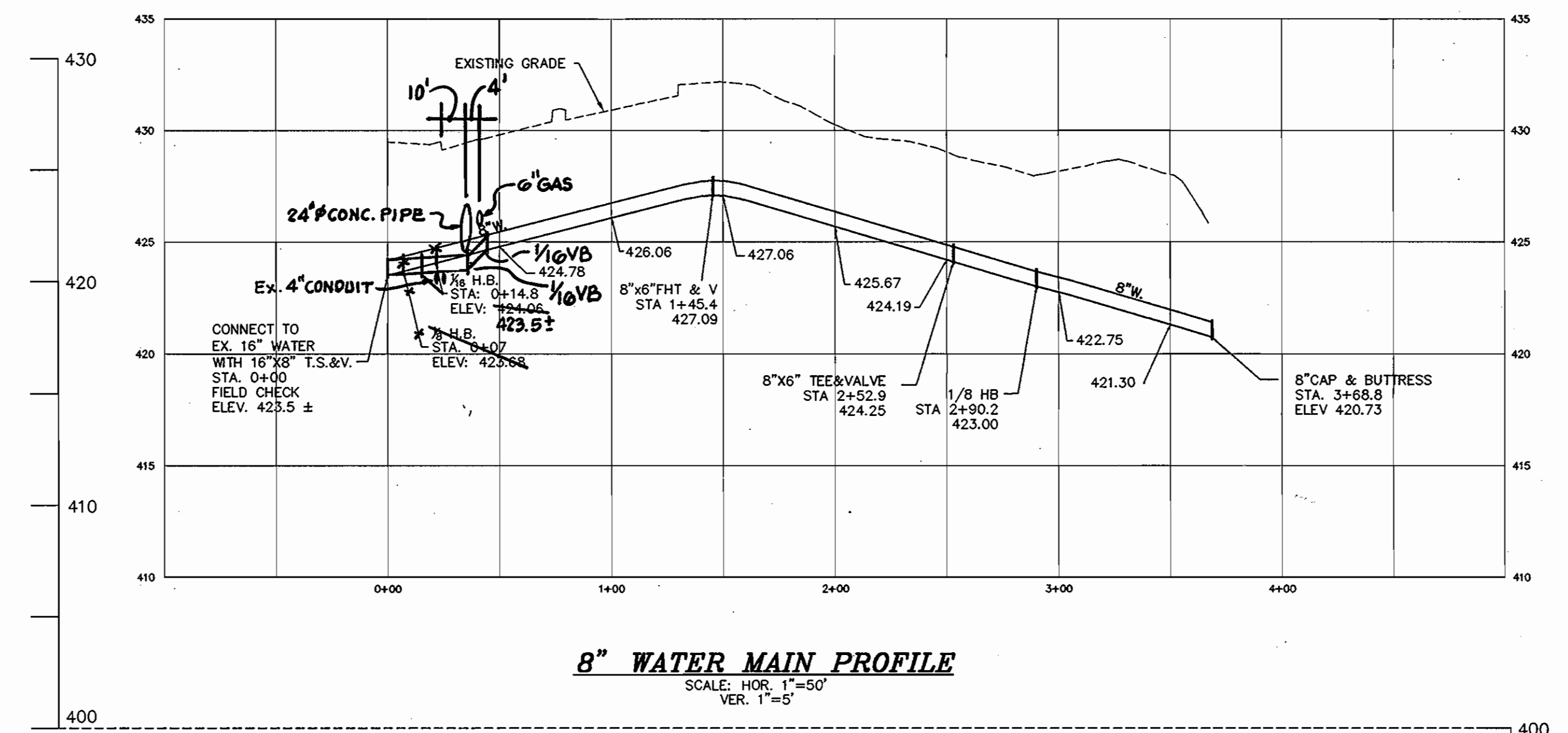
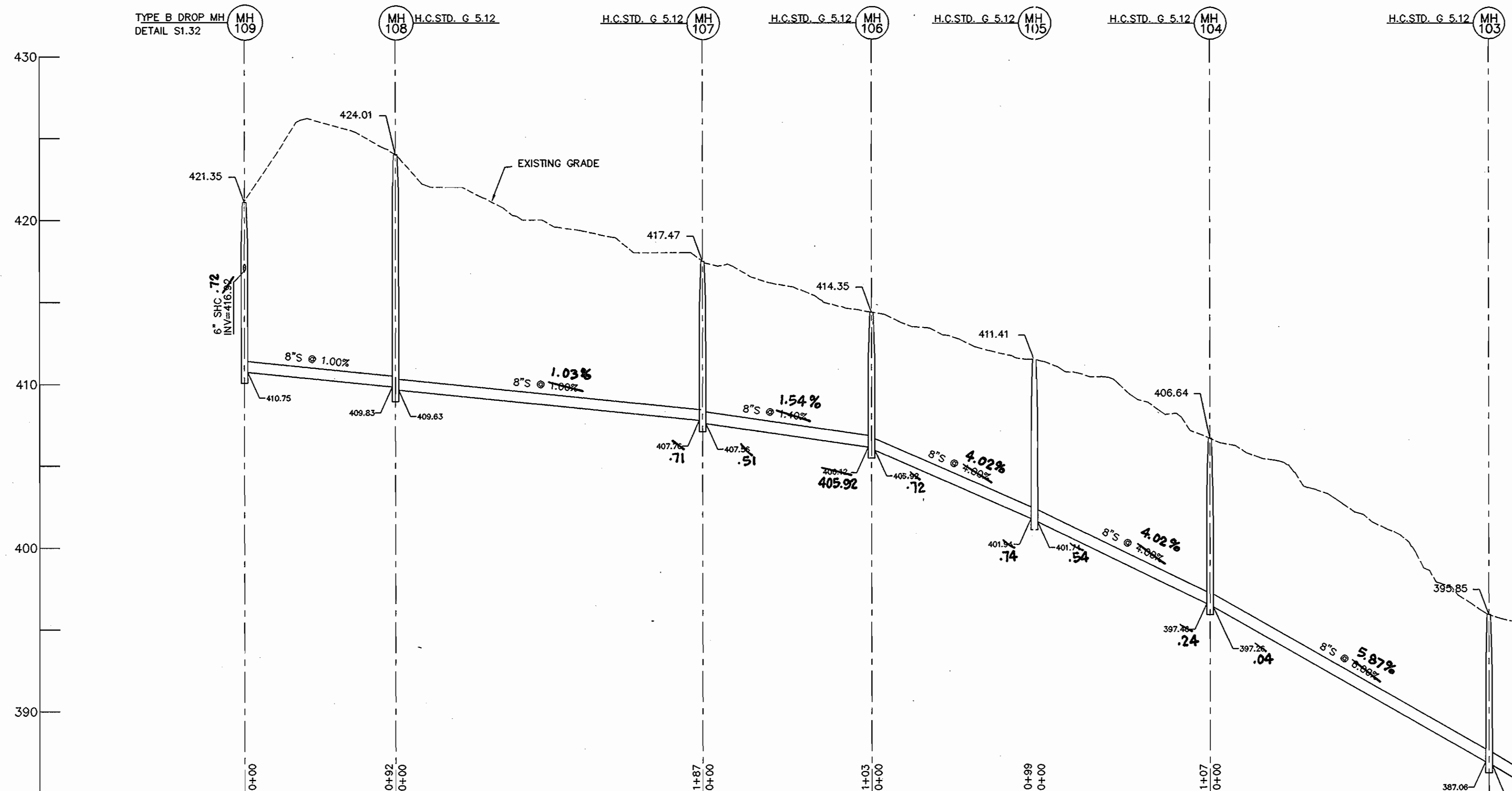
WATER AND SEWER PLAN

600' SCALE MAP NO. 41 BLOCK NO. 22

HOPKINS STATION

CONTRACT NO.: 24-4311-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

03-094.DWG 10/20/05 - wks: DMC



AS BUILT
DATE: MAY 15, 2006

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
10-3-05
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
12/6/05
DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 397-0236 Fax (301) 621-5521 Wash. (410) 397-0288 Fax



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| engineering | JJO | | | | |
| illustration | JJO | | | | |
| approval | HSP | | | | |
| project | 03-094 | | | | |
| date | AUG 2005 | BY | NO. | REVISION | DATE |

WATER AND SEWER PROFILES
600' SCALE MAP NO. 41 BLOCK NO. 22

HOPKINS STATION
CONTRACT NO.: 24-4311-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale AS SHOWN
3 OF 3

03-094.DWG\03094-w&w.dwg