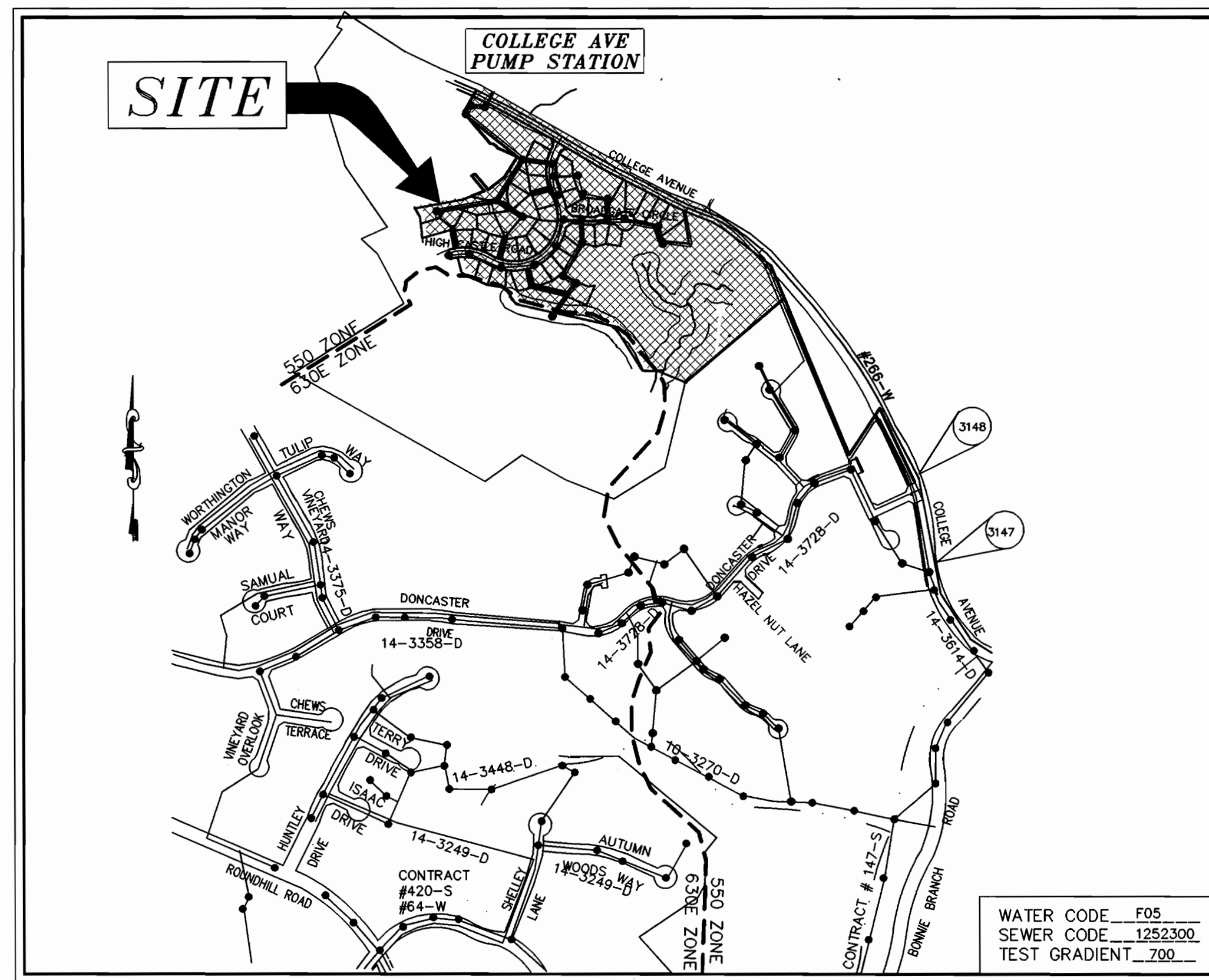


| QUANTITY TABLE                             |                      |            |                       |  |
|--|----------------------|------------|-----------------------|--|
| ITEMS                                      | QUANTITIES ESTIMATED | QUANTITIES |                       |  |
|  |                      | TYPE       | MANUFACTURER/SUPPLIER |  |
| STANDARD MH (HO. CO. STD.G-5.01)           | 26                   |            |                       |  |
| DROP MH, TYPE "B" (HO. CO. STD. S-1.32)    | 1                    |            |                       |  |
| 8" SEWER MAIN                              | 3,943 L.F.           |            |                       |  |
| 4" SEWER HOUSE CONNECTION                  | 1,045 L.F.           |            |                       |  |
| # SEWER HOUSE CONNECTION                   | 46 EACH              |            |                       |  |
| 8" WATER                                   | 565 L.F.             |            |                       |  |
| 12" WATER                                  | 1,208 L.F.           |            |                       |  |
| 1" WATER HOUSE CONNECTION                  | 1,150 L.F.           |            |                       |  |
| # 1" WHC                                   | 48 EACH              |            |                       |  |
| F.H.                                       | 4 EACH               |            |                       |  |
| 12" x 8" T                                 | 3 EACH               |            |                       |  |
| 8" V                                       | 1 EACH               |            |                       |  |
| 12" V                                      | 2 EACH               |            |                       |  |
| 1/32 H.B. (8")                             | 1 EACH               |            |                       |  |
| 1/8 H.B. (8")                              | 1 EACH               |            |                       |  |
| 1/16 H.B. (8")                             | 2 EACH               |            |                       |  |
| 12" X 12" TAPPING SLEEVE, & VALVE          | 1 EACH               |            |                       |  |
| 8"x6" T                                    | 1 EACH               |            |                       |  |
| 8" CAP & BUTTRESS                          | 1 EACH               |            |                       |  |
| 12" CAP & BUTTRESS                         | 1 EACH               |            |                       |  |
| AIR REL.                                   | 1 EACH               |            |                       |  |
| STREAM CROSSING                            | 1 EACH               |            |                       |  |
| NAME OF UTILITY CONTRACTOR:                |                      |            |                       |  |
| SURVEY AND 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 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 OWED 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) 787-8068 |
| 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE (5) 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(g) OF HOWARD COUNTY CODE.
- 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.
- FOR SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. 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.
- STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- SEDIMENT CONTROL TO BE PROVIDED BY F-99-45.
- ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.
- ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.
- ALL HOUSES WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.
- THE EXISTING WELL AND SEPTIC SERVICING EXISTING HOUSE(S) ARE TO BE ABANDONED.
- 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.
- LOTS 233 AND 234 SHALL HAVE OUTSIDE WATER METER.



VICINITY MAP  
SCALE: 1"=600'

|                                |  |
|--------------------------------|--|
| TYPE OF BUILDING               | SFD  |
| No. OF UNITS                   | 46   |
| No. OF WATER HOUSE CONNECTION  | 48   |
| No. OF SEWER HOUSE CONNECTIONS | 46   |
| DRAINAGE AREA                  | BONNIE BRANCH, PATAPSCO                        |
| TREATMENT PLANT                | PATAPSCO WASTEWATER TREATMENT PLANT, BALTIMORE |

**EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER F-01-23**

**CONTRACT NO.: 14-3895-D  
AUTUMN VIEW, SECTION 5, PHASE I  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS**

**INDEX OF DRAWINGS**

| NO. | DESCRIPTION          |
|-----|----------------------|
| 1   | TITLE SHEET          |
| 2   | WATER AND SEWER PLAN |
| 3   | WATER PROFILES       |
| 4   | SEWER PROFILES       |
| 5   | SEWER PROFILES       |

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.

*David P. ...* 12/18/01  
DEVELOPER'S SIGNATURE DATE

*Bruce Taylor, Pres.*  
DEVELOPER'S NAME

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS THE BEST 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* 12/17/01  
ENGINEER'S SIGNATURE DATE  
JOHN B. MILDENBERG, PROFESSIONAL ENGINEER  
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

*Jim Meyer* 1/17/02  
USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

*John ...* 1/17/02  
HOWARD SCD

PLAN REFERENCE NUMBERS  
S-99-01  
P-00-08  
F-01-23

|   |  |  |   |                      |                    |  |        |
|---|--|--|---|----------------------|--------------------|--|--------|
| DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND | DEPARTMENT OF PLANNING & ZONING<br>HOWARD COUNTY, MARYLAND | <b>MILDENBERG, BOENDER &amp; ASSOC., INC.</b><br>Engineers Planners Surveyors<br>5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042<br>(410) 997-0286 Ball. (301) 621-5521 Wash. (410) 997-0288 Fax. | engineering M.P.<br>illustration M.P.<br>approval J.M.<br>project 99072<br>date OCT. 2001 | BY NO. REVISION DATE | <b>TITLE SHEET</b> | scale AS SHOWN<br><b>AUTUMN VIEW, SECTION 5<br/>PHASE I</b> LOTS 211-259<br>CONTRACT NO.: 14-3895-D<br>SECOND ELECTION DISTRICT<br>HOWARD COUNTY | 1 OF 5 |
|---|--|--|---|----------------------|--------------------|--|--------|

PROPOSED COLLEGE AVENUE PUMP STATION

**WATER MAIN TABULATION CHART**  
HIGH CASTLE DRIVE (WL STA 0+00 TO 12+02.72)

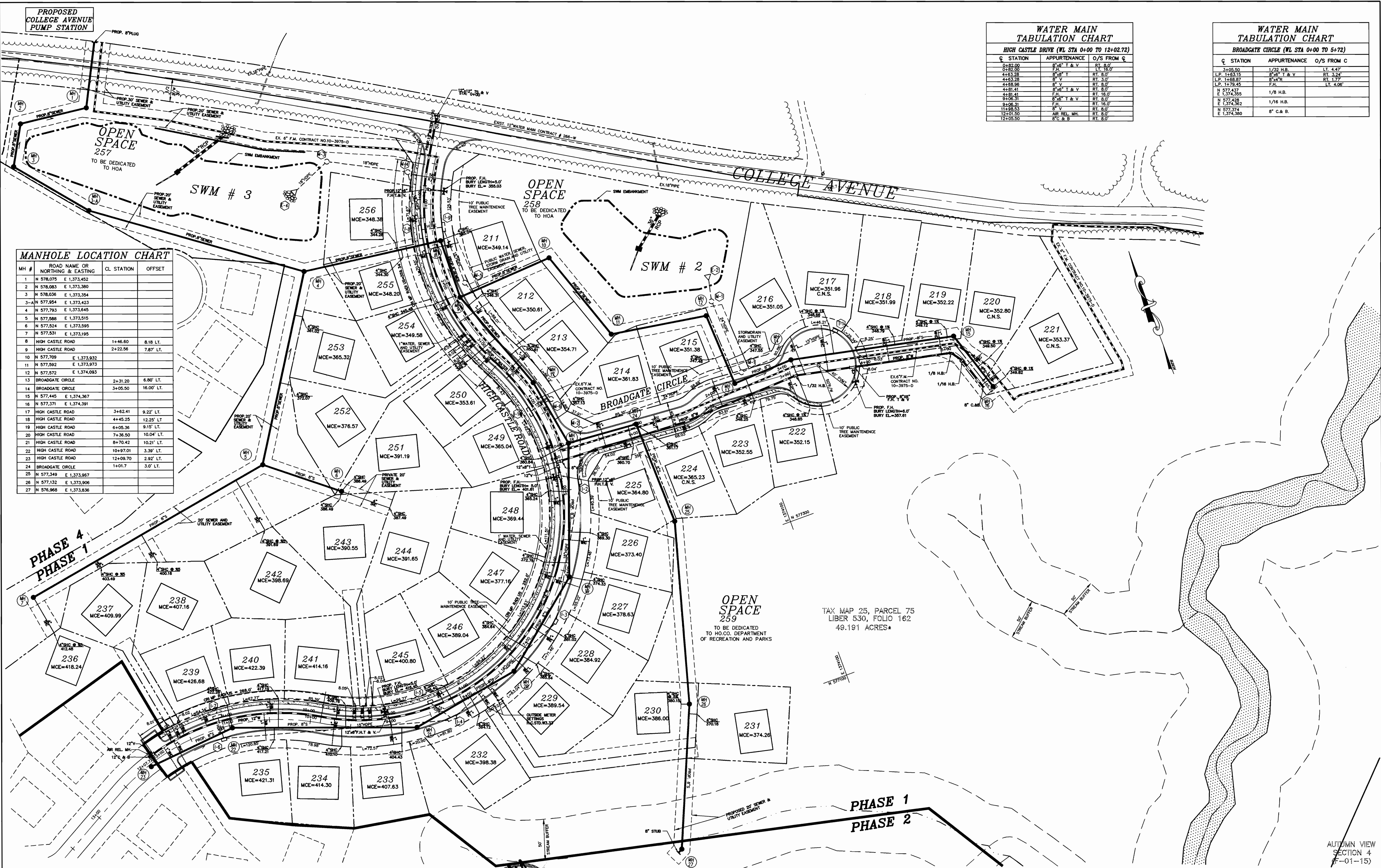
| STATION  | APPURTENANCE | O/S FROM C |
|----------|--------------|------------|
| 0+00.00  | 8" C & V     | RT. 8.0'   |
| 4+63.28  | 8" V         | RT. 3.0'   |
| 4+63.28  | 8" V         | RT. 3.0'   |
| 4+68.96  | 8" V         | RT. 8.0'   |
| 4+81.41  | 8" V         | RT. 8.0'   |
| 4+81.41  | 8" V         | RT. 8.0'   |
| 9+06.31  | 8" V         | RT. 8.0'   |
| 9+06.31  | 8" V         | RT. 16.0'  |
| 11+83.53 | 8" V         | RT. 8.0'   |
| 12+01.50 | AIR REL. MH  | RT. 8.0'   |
| 12+05.50 | 8" C & B     | RT. 8.0'   |

**WATER MAIN TABULATION CHART**  
BROADGATE CIRCLE (WL STA 0+00 TO 5+72)

| STATION    | APPURTENANCE | O/S FROM C |
|------------|--------------|------------|
| 3+05.50    | 1/32 H.B.    | LT. 4.47'  |
| LP 1+63.15 | 8" T & V     | RT. 3.24'  |
| LP 1+68.87 | 8" V         | RT. 1.77'  |
| LP 1+79.45 | F.H.         | LT. 4.06'  |
| 4+81.41    | 8" V         | RT. 8.0'   |
| 9+06.31    | 8" V         | RT. 8.0'   |
| 9+06.31    | 8" V         | RT. 16.0'  |
| 11+83.53   | 8" V         | RT. 8.0'   |
| 12+01.50   | AIR REL. MH  | RT. 8.0'   |
| 12+05.50   | 8" C & B     | RT. 8.0'   |

**MANHOLE LOCATION CHART**

| MH # | ROAD NAME OR NORTHING & EASTING | CL STATION | OFFSET     |
|------|---------------------------------|------------|------------|
| 1    | N 578,075 E 1,373,452           |            |            |
| 2    | N 578,083 E 1,373,380           |            |            |
| 3    | N 578,036 E 1,373,354           |            |            |
| 3-A  | N 577,954 E 1,373,423           |            |            |
| 4    | N 577,793 E 1,373,645           |            |            |
| 5    | N 577,588 E 1,373,515           |            |            |
| 6    | N 577,524 E 1,373,595           |            |            |
| 7    | N 577,531 E 1,373,195           |            |            |
| 8    | HIGH CASTLE ROAD                | 14+46.60   | 8.18' LT.  |
| 9    | HIGH CASTLE ROAD                | 2+22.56    | 7.87' LT.  |
| 10   | N 577,709 E 1,373,932           |            |            |
| 11   | N 577,592 E 1,373,973           |            |            |
| 12   | N 577,572 E 1,374,093           |            |            |
| 13   | BROADGATE CIRCLE                | 2+31.20    | 6.80' LT.  |
| 14   | BROADGATE CIRCLE                | 3+05.50    | 16.00' LT. |
| 15   | N 577,445 E 1,374,367           |            |            |
| 16   | N 577,371 E 1,374,391           |            |            |
| 17   | HIGH CASTLE ROAD                | 3+62.41    | 9.22' LT.  |
| 18   | HIGH CASTLE ROAD                | 4+45.25    | 12.25' LT. |
| 19   | HIGH CASTLE ROAD                | 6+05.36    | 9.15' LT.  |
| 20   | HIGH CASTLE ROAD                | 7+36.50    | 10.04' LT. |
| 21   | HIGH CASTLE ROAD                | 8+70.42    | 10.21' LT. |
| 22   | HIGH CASTLE ROAD                | 10+97.01   | 3.39' LT.  |
| 23   | HIGH CASTLE ROAD                | 12+09.70   | 2.92' LT.  |
| 24   | BROADGATE CIRCLE                | 1+01.7     | 3.0' LT.   |
| 25   | N 577,349 E 1,373,967           |            |            |
| 26   | N 577,132 E 1,373,906           |            |            |
| 27   | N 576,965 E 1,373,836           |            |            |



TAX MAP 25, PARCEL 75  
LIBER 530, FOLIO 162  
49.191 ACRES\*

AUTUMN VIEW  
SECTION 4  
E-01-153

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
1-7-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
1/17/02  
DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21040  
(410) 997-0296 Ball. (301) 621-5521 Wash. (410) 997-0298 Pa.

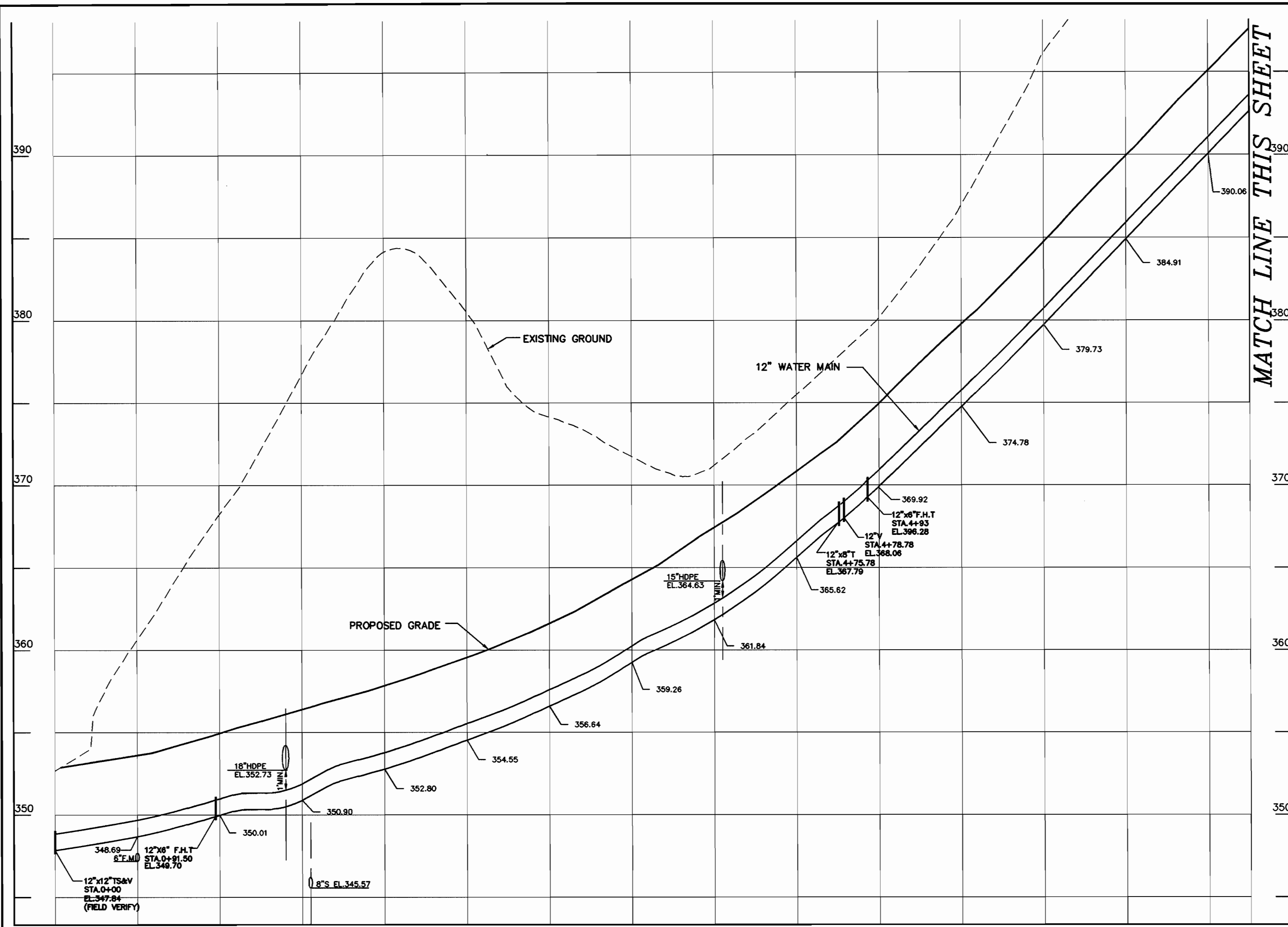


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|--------------|----------|----|-----|----------|------|
| engineering  | M.P.     |    |     |          |      |
| illustration | M.P.     |    |     |          |      |
| approval     | J.M.     |    |     |          |      |
| project      | 99072    |    |     |          |      |
| date         | DEC.2001 | BY | NO. | REVISION | DATE |

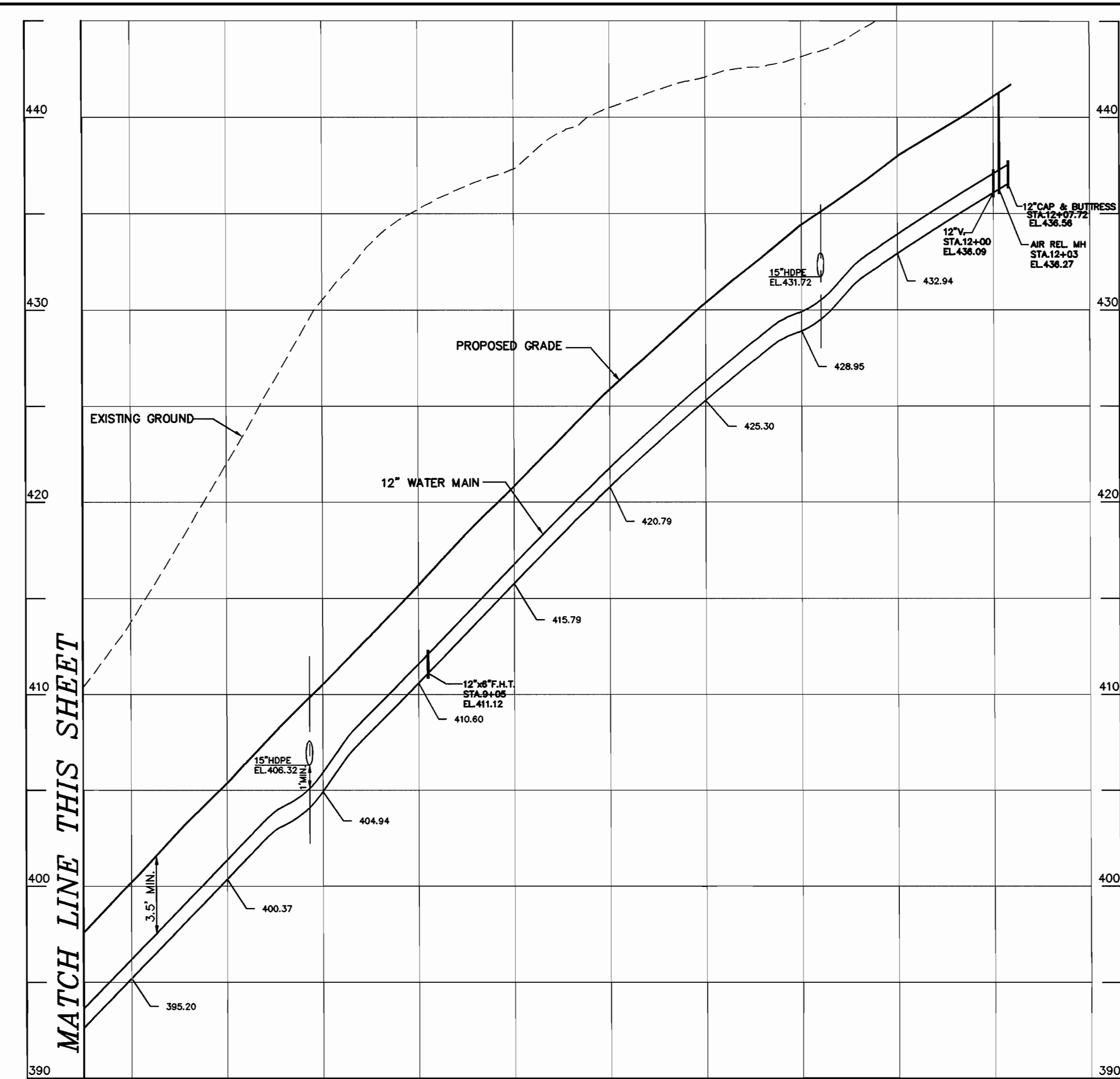
**WATER AND SEWER PLAN**  
600' SCALE MAP NO. 25 & 31 BLOCK NO. 2

**AUTUMN VIEW, SECTION 5**  
PHASE 1 Lots 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

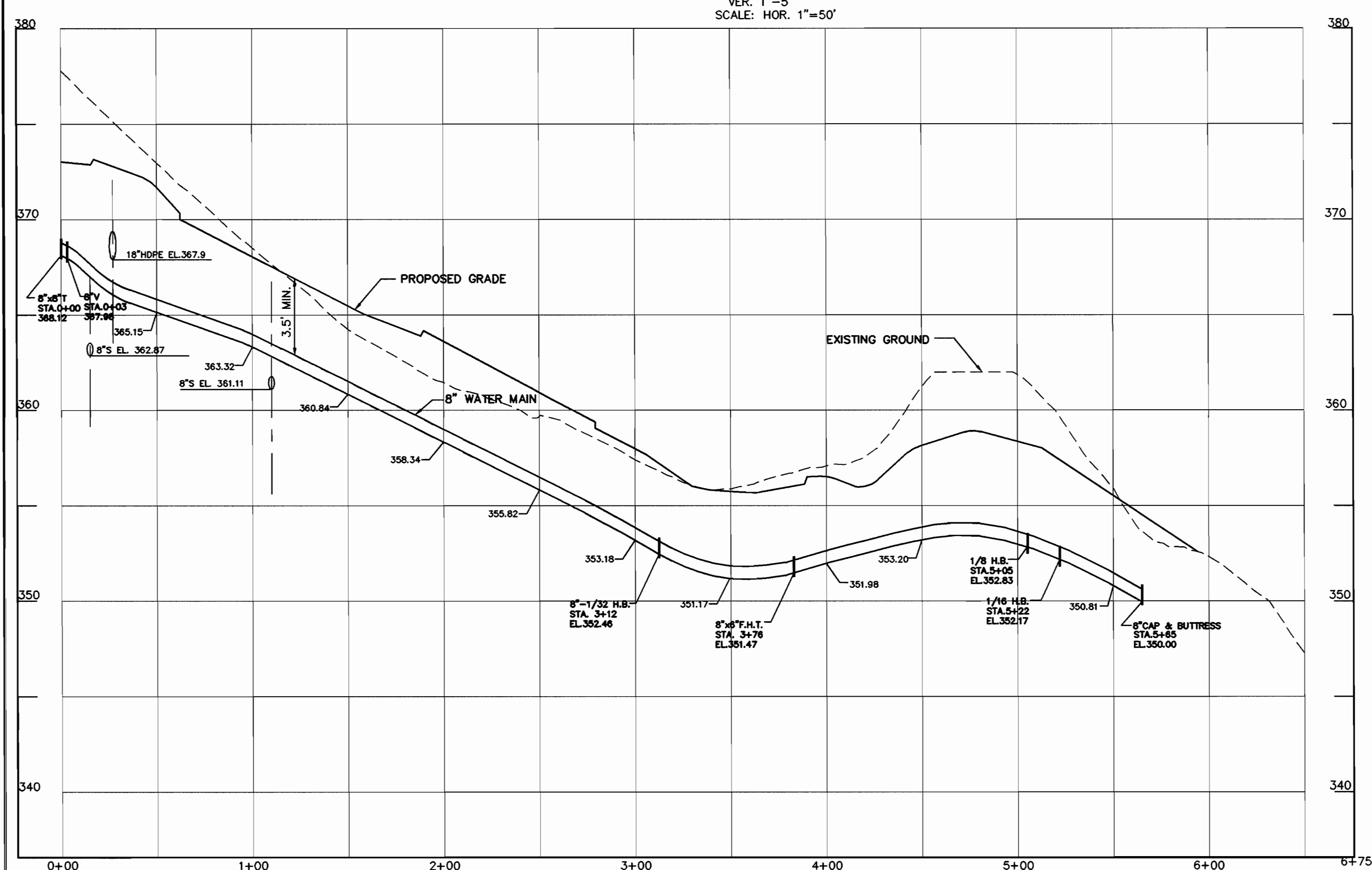
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2 OF 5



12" WATER PROFILE - HIGH CASTLE ROAD



12" WATER PROFILE - HIGH CASTLE ROAD

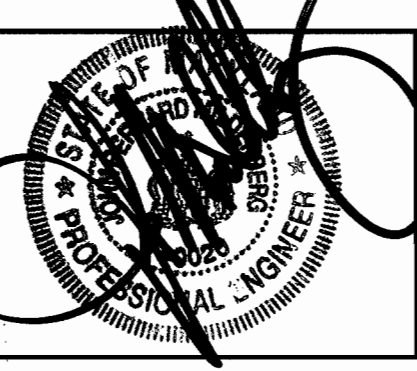


8" WATER PROFILE - BROADGATE CIRCLE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
1-7-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
DATE

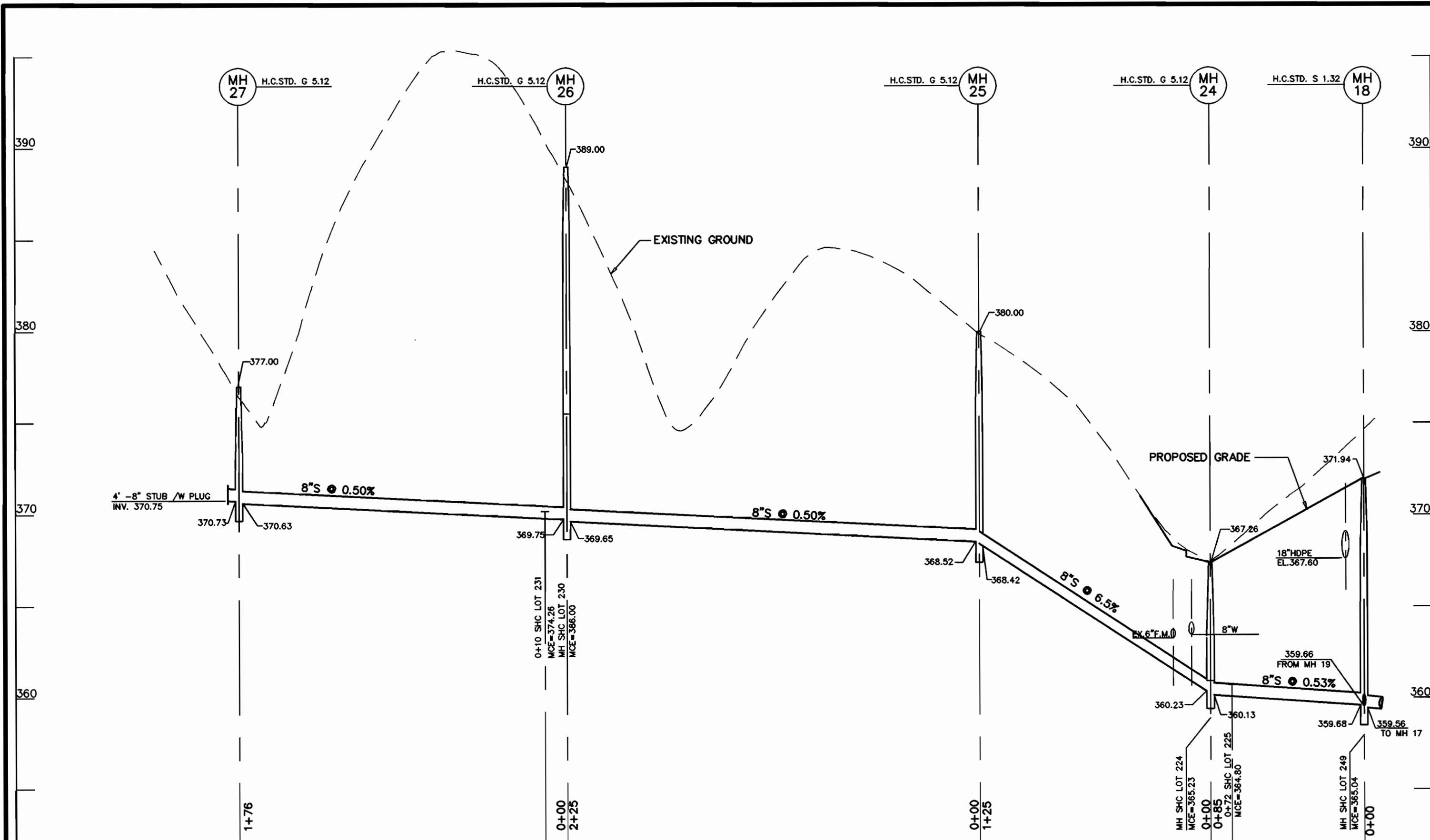
**MILDENBERG,  
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5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21041  
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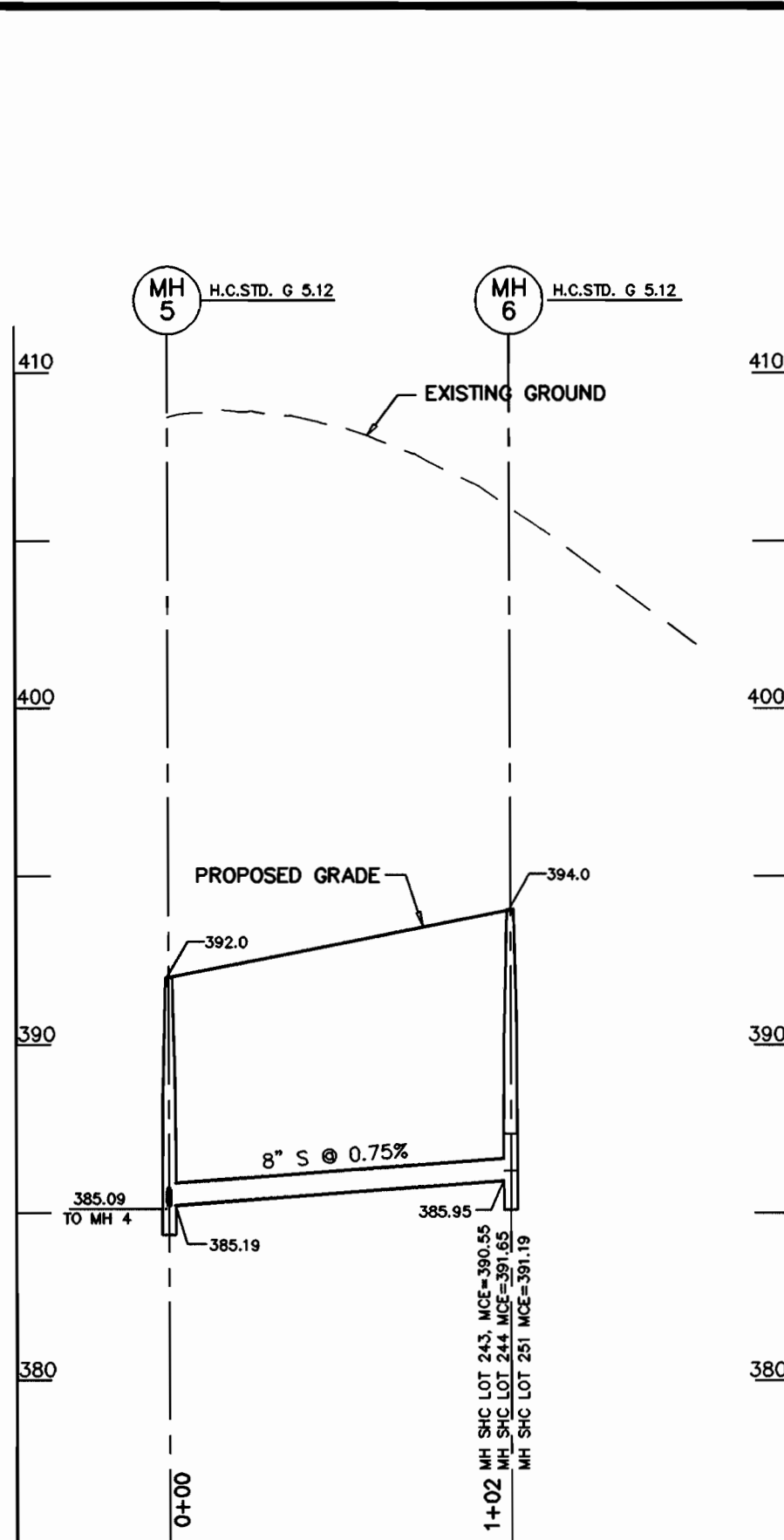
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| approval     | J.M.     |    |     |          |      |
| project      | 99072    |    |     |          |      |
| date         | OCT.2001 | BY | NO. | REVISION | DATE |

**WATER  
PROFILES**

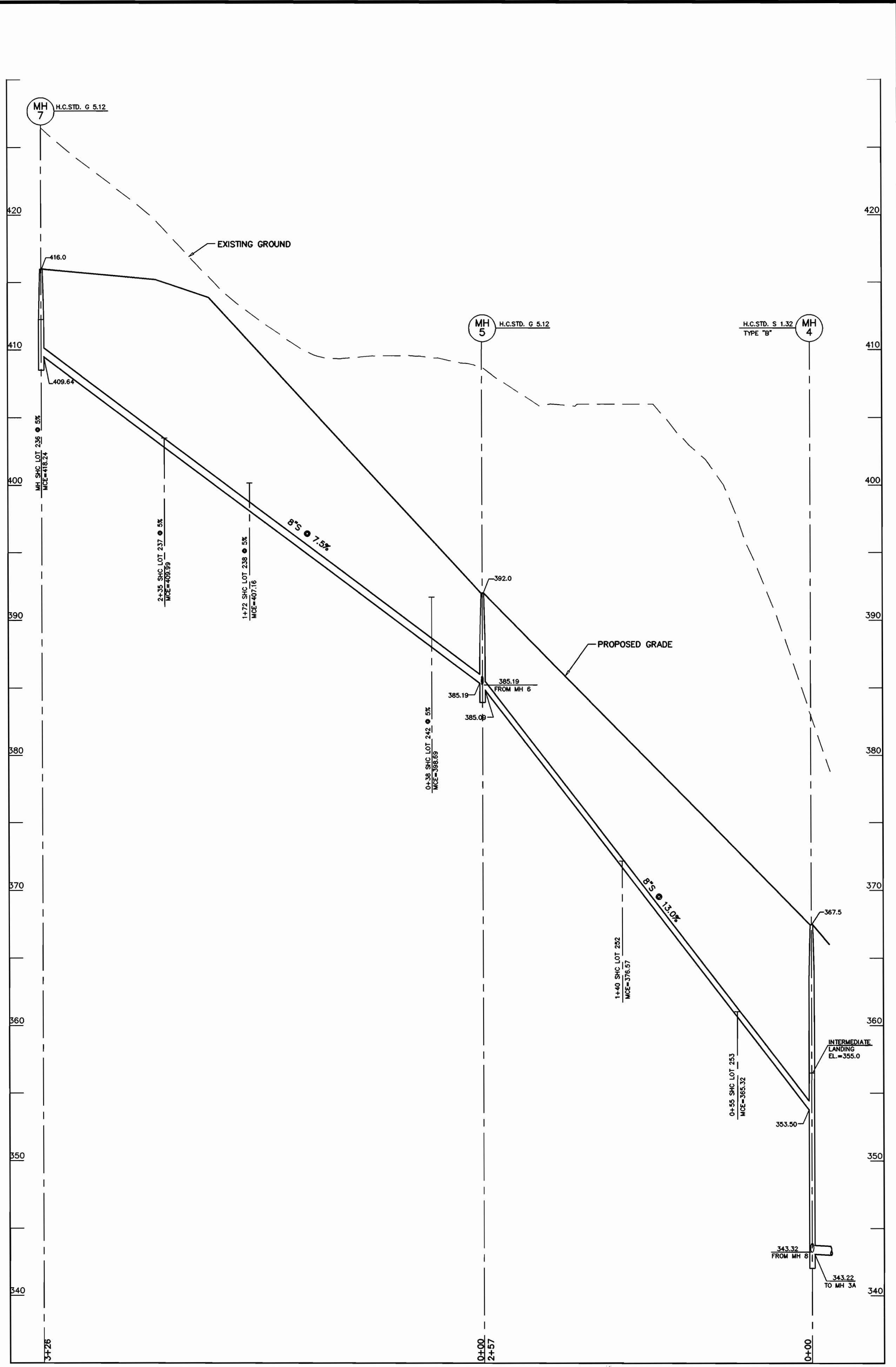
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PHASE 1 LOTS 211-259  
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SECOND ELECTION DISTRICT  
HOWARD COUNTY



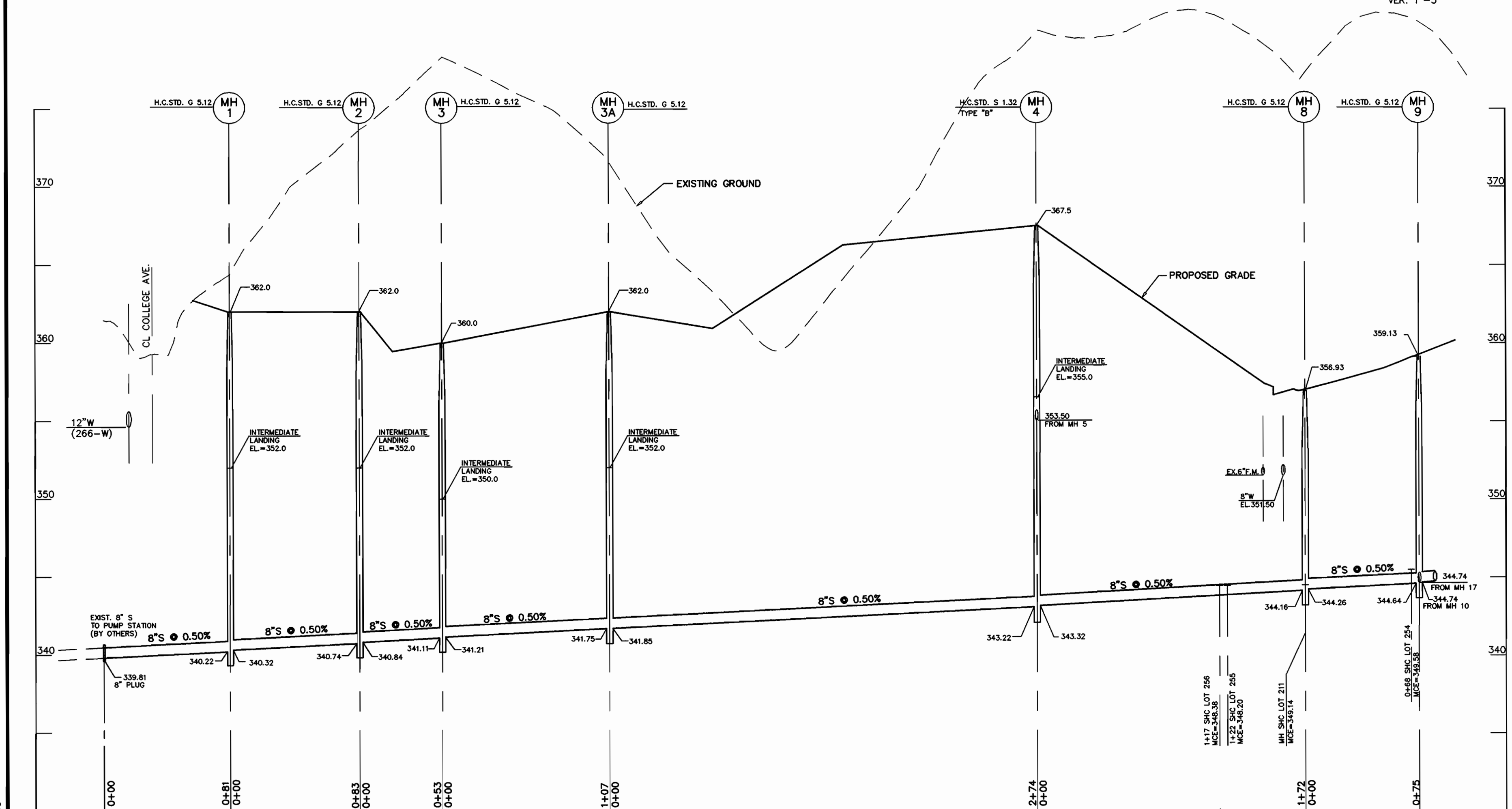
**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



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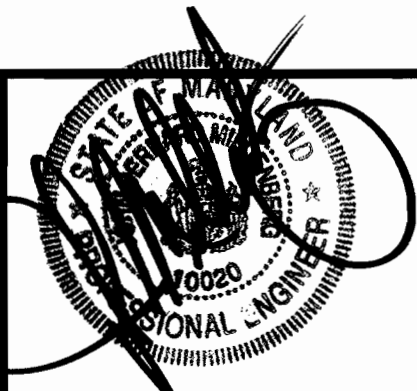


**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
1-7-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
1/17/02  
DATE

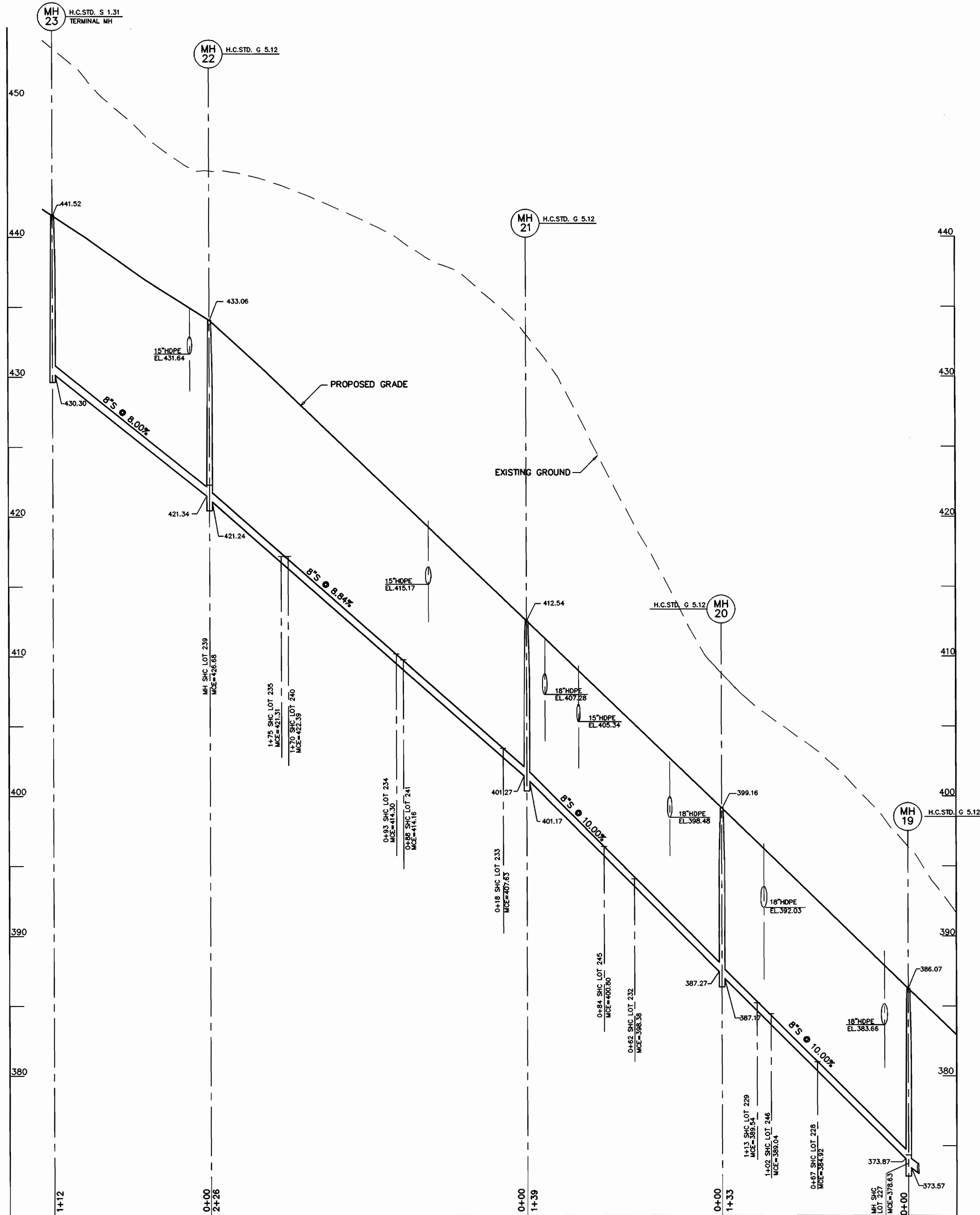
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|              |          |    |     |          |      |
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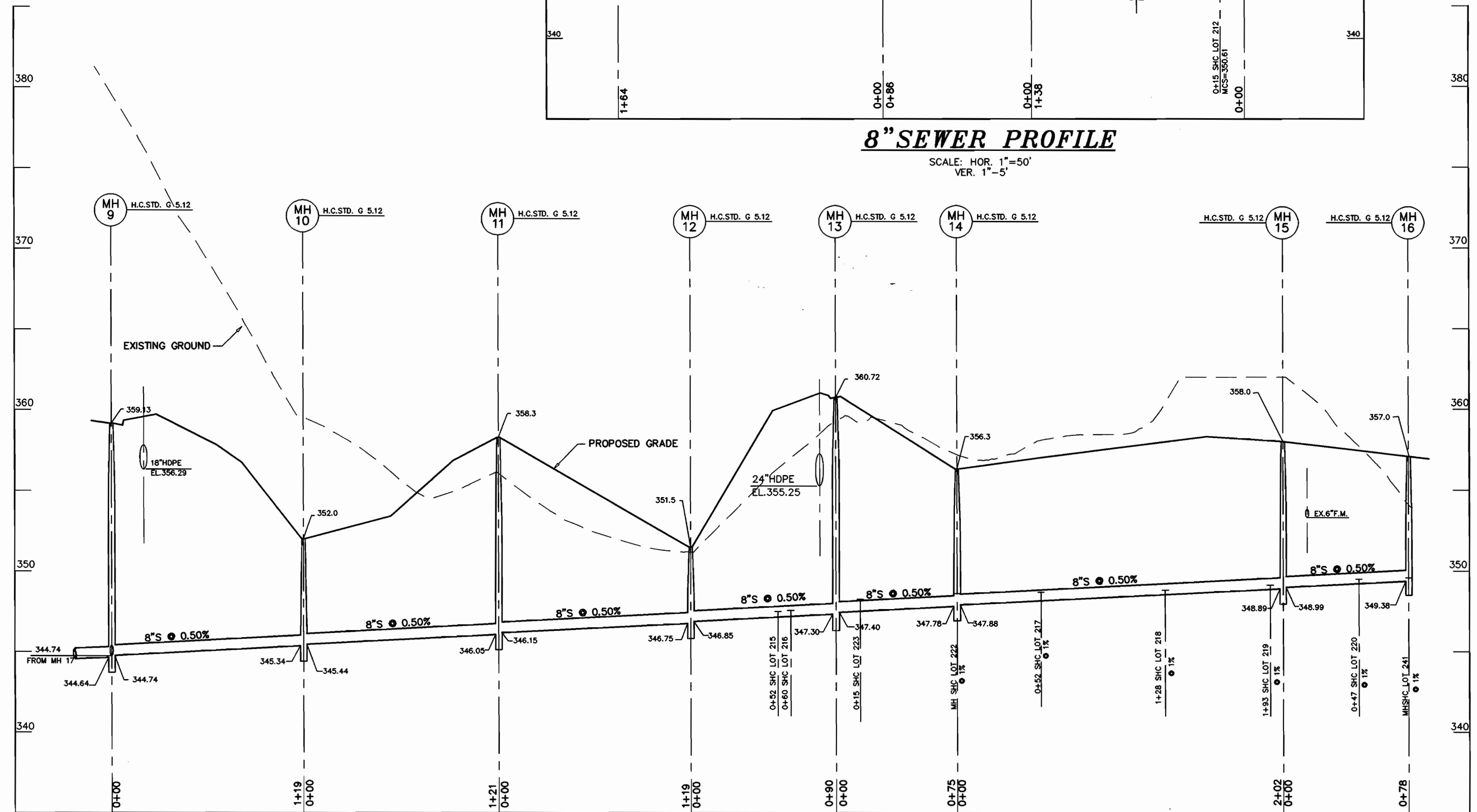
**SEWER PROFILES**  
600' SCALE MAP NO. 25 & 31 BLOCK NO. 2

**AUTUMN VIEW, SECTION 5**  
PHASE 1 LOTS 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY



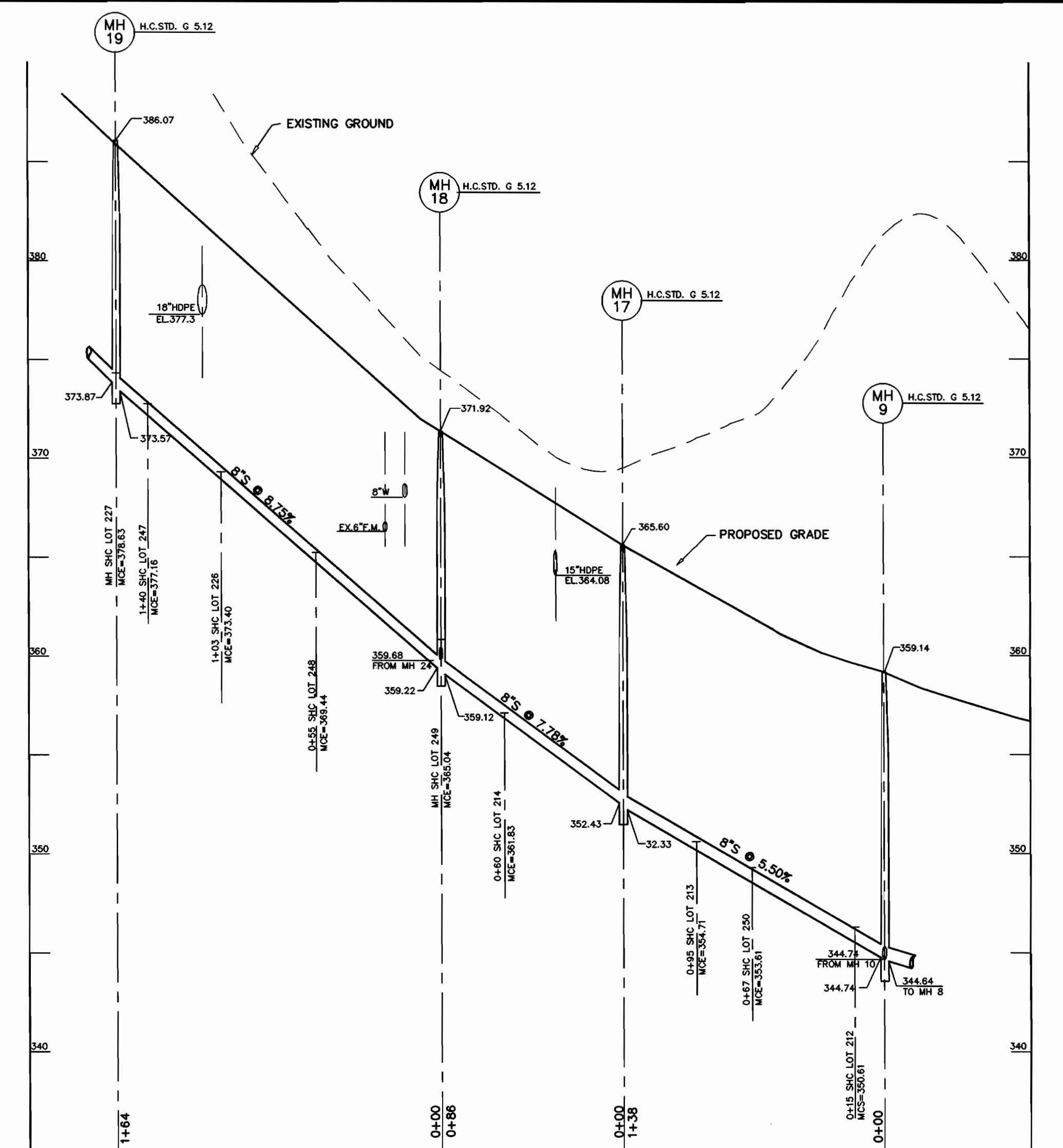
**8" SEWER PROFILE**

SCALE: HOR. 1"=50'  
VER. 1"=5'



**8" SEWER PROFILE**

SCALE: HOR. 1"=50'  
VER. 1"=5'



**8" SEWER PROFILE**

SCALE: HOR. 1"=50'  
VER. 1"=5'

97072\PHASE-1\WS\5-PROF.DWG

|   |  |
|---|--|
| DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND | DEPARTMENT OF PLANNING & ZONING<br>HOWARD COUNTY, MARYLAND   |
| <i>Robert B. ...</i><br>CHIEF, BUREAU OF UTILITIES    | <i>... 1/1/02</i><br>CHIEF, DEVELOPMENT ENGINEERING DIVISION |

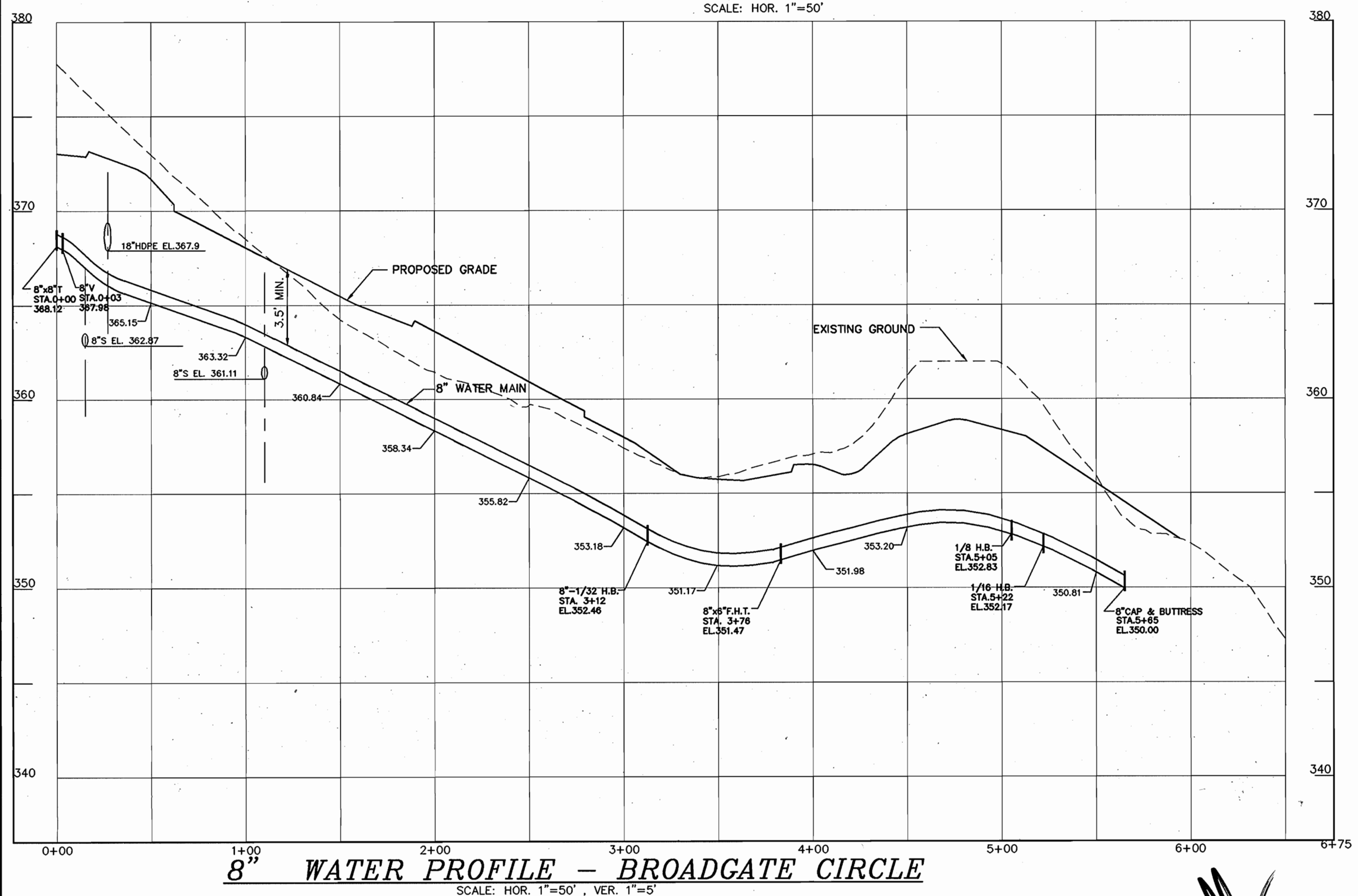
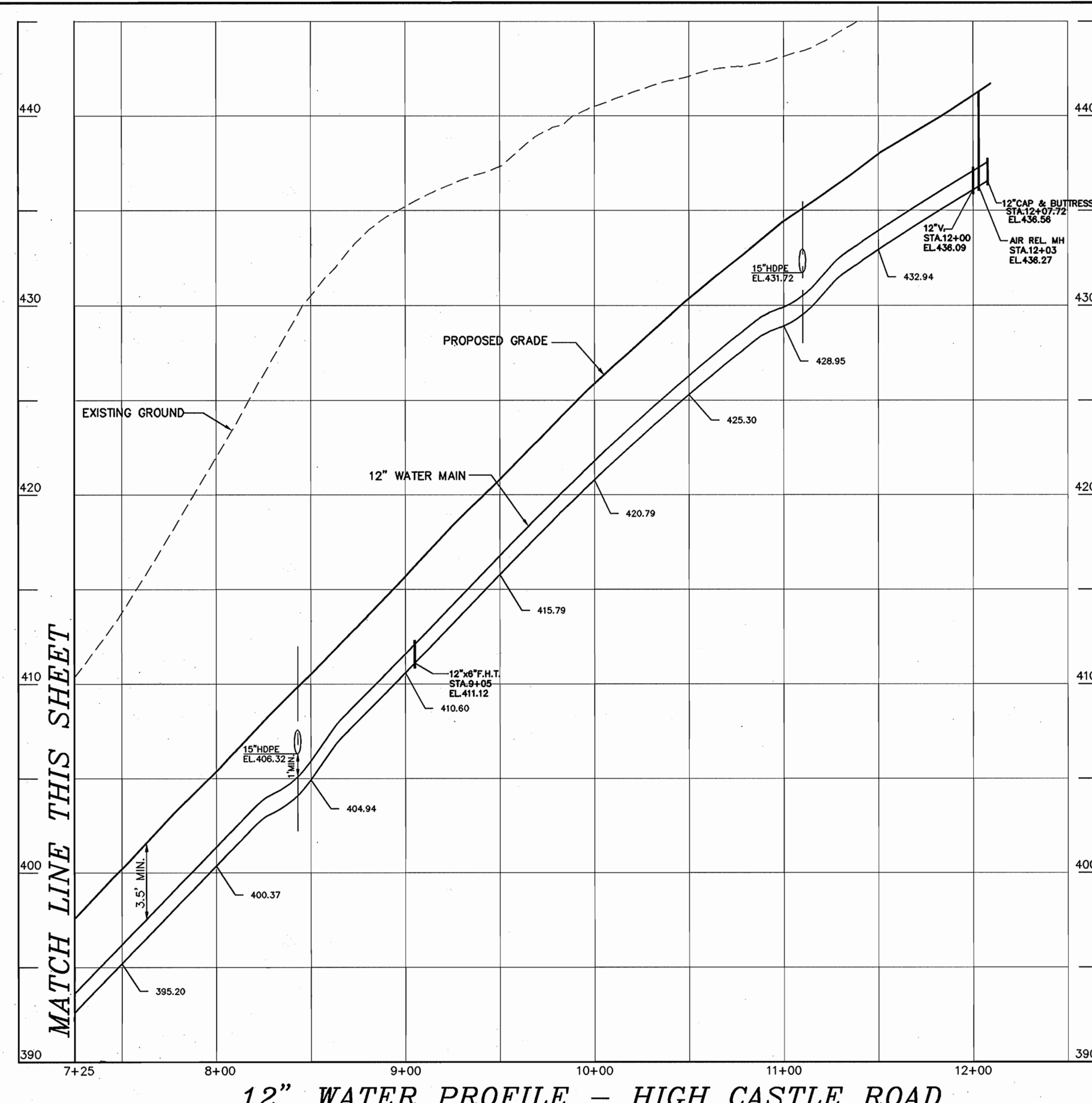
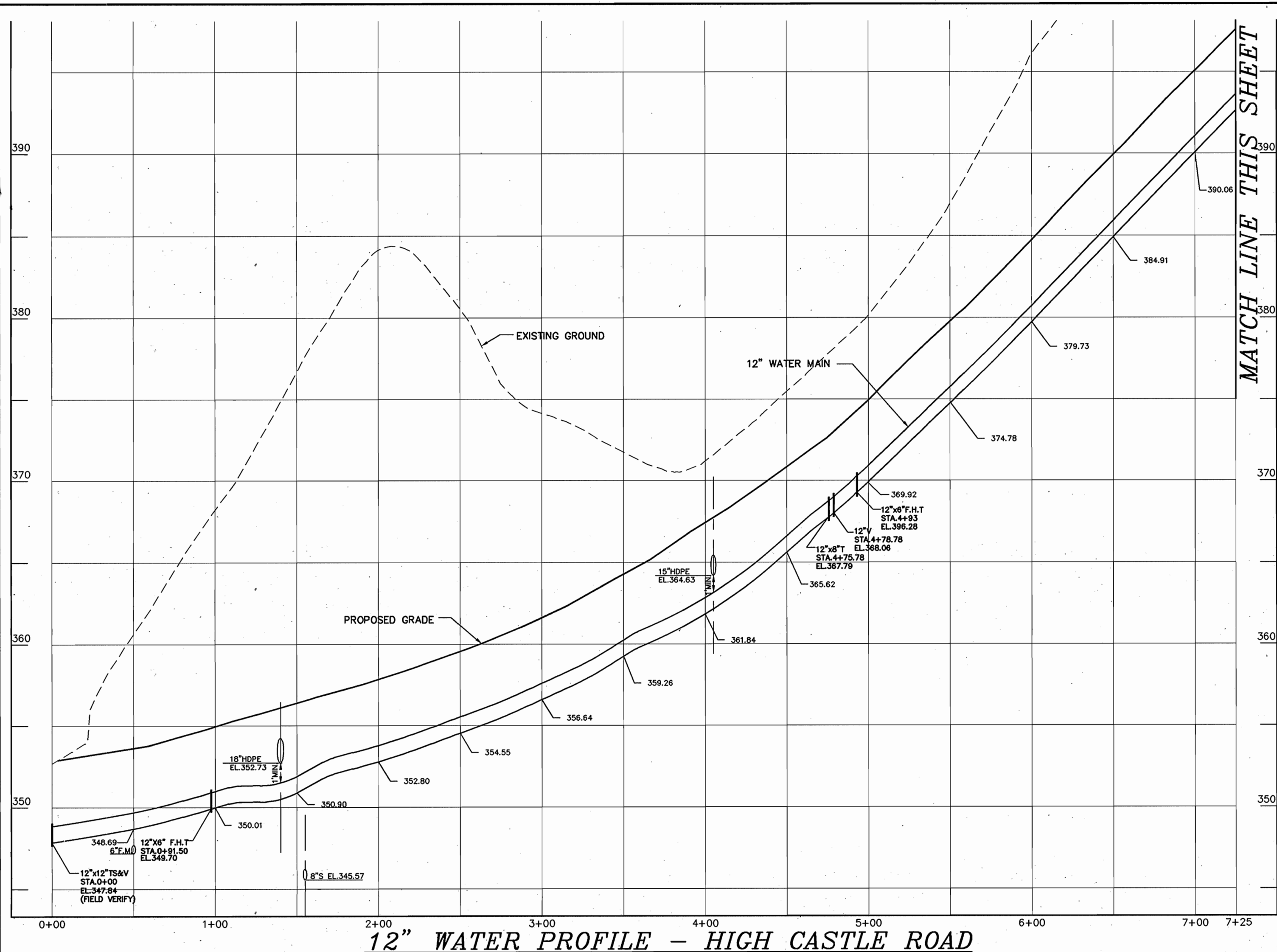
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|              |          |    |     |          |      |
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**SEWER PROFILES**

600' SCALE MAP NO. 25 & 31 BLOCK NO. 2

**AUTUMN VIEW, SECTION 5**  
PHASE 1 LOTS 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

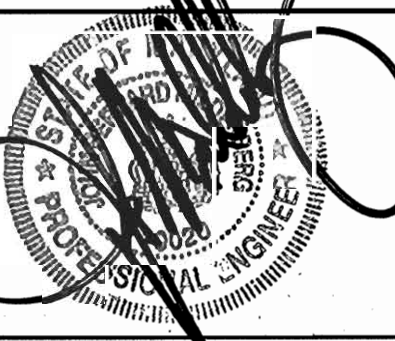


98072 (PHASE-2) LWS FINAL VWS W-PROF.DWG

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*John Baugher*  
 CHIEF, BUREAU OF UTILITIES  
 1-7-02  
 DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
*John Baugher*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 1/17/02  
 DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21041  
 (410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



|              |           |    |     |          |
|--------------|-----------|----|-----|----------|
| engineering  | M.P.      |    |     |          |
| illustration | M.P.      |    |     |          |
| approval     | J.M.      |    |     |          |
| project      | 98072     |    |     |          |
| date         | OCT. 2001 | BY | NO. | REVISION |

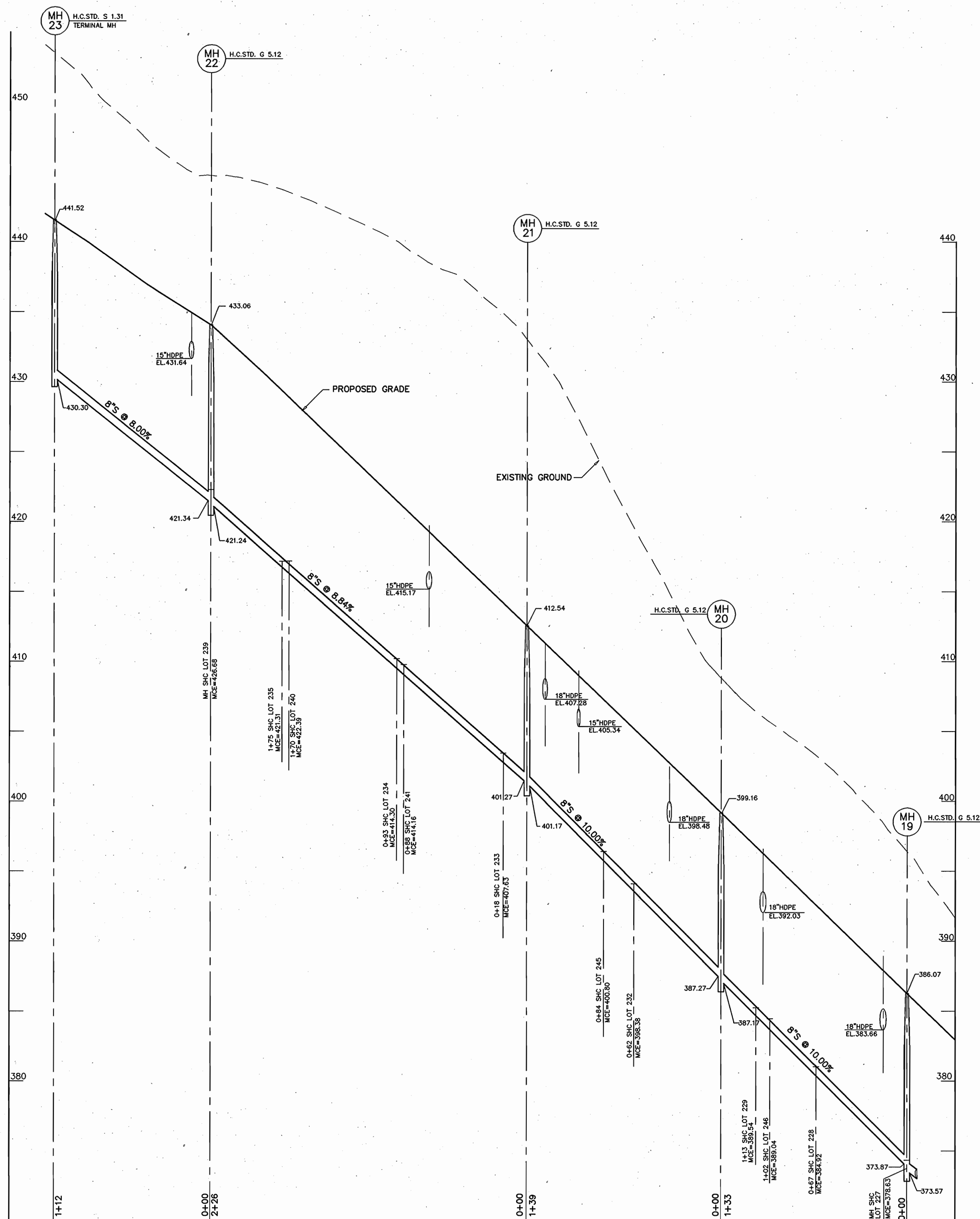
|      |                                       |                    |
|------|---------------------------------------|--------------------|
| DATE | 600' SCALE MAP NO. <u>24 &amp; 31</u> | BLOCK NO. <u>2</u> |
|------|---------------------------------------|--------------------|

**WATER PROFILES**

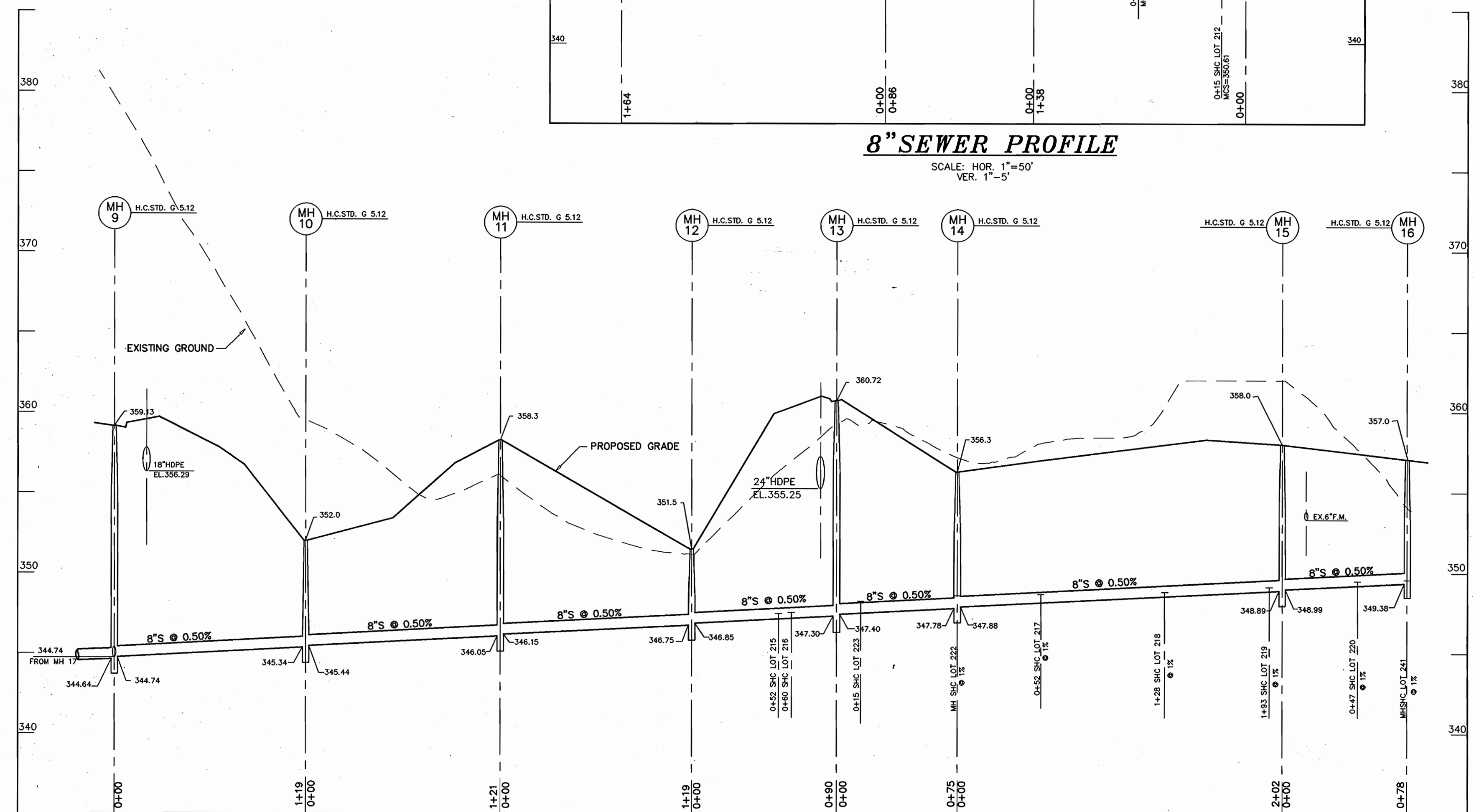
**AUTUMN VIEW, SECTION 5**  
 PHASE 1 Lots 211-259  
 CONTRACT # 14-3895-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY

scale

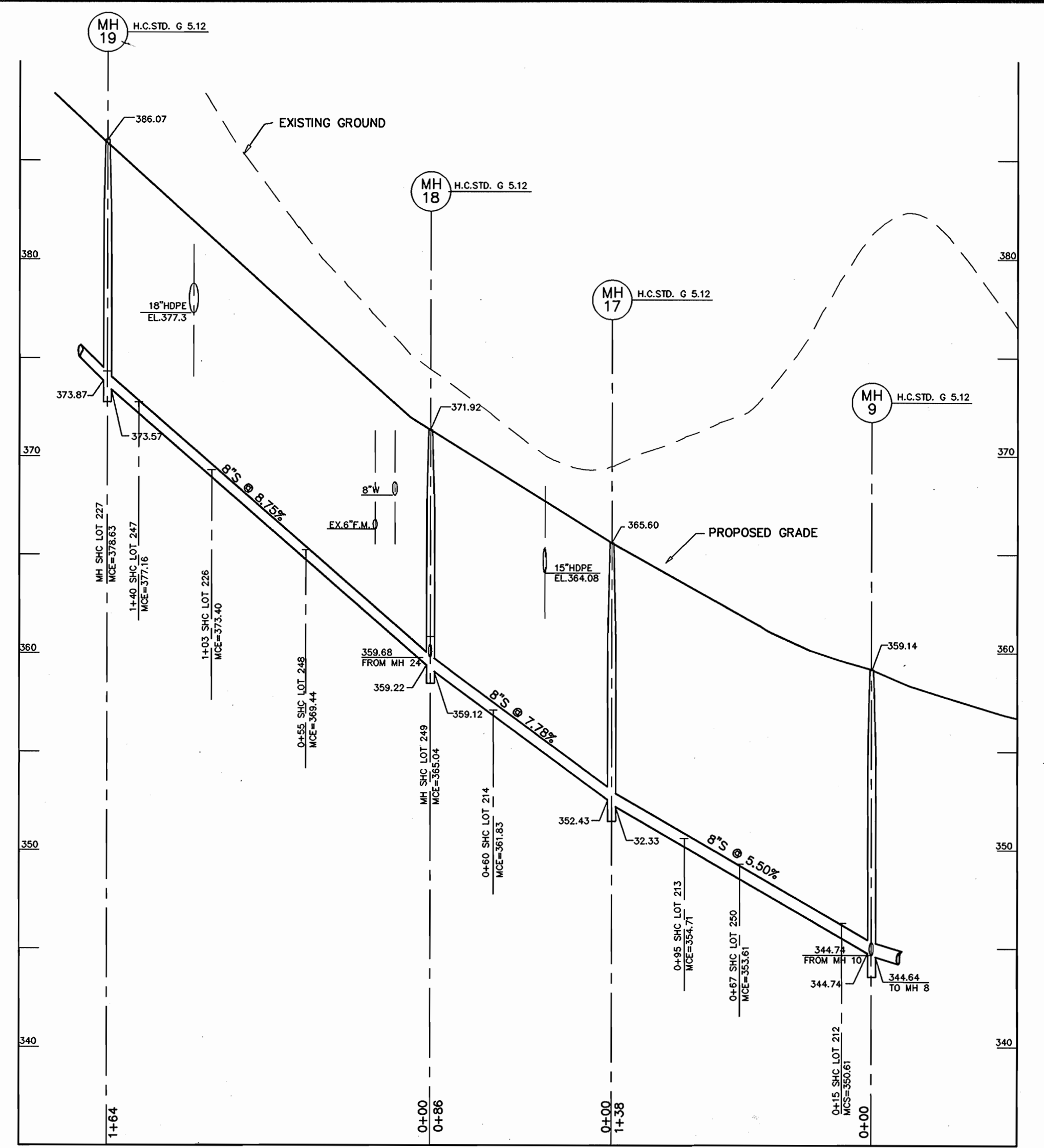
**3 OF 5**



**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'



**8" SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VER. 1"=5'

97072 PHASE-1 VMS 5-PROF.DWG

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Robert B. Smith* 1-7-02  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*Michael J. ...* 1/1/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION I DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorney Hall Drive, Suite 202, Ellicott City, Maryland 21041  
(410) 897-0296 Bal. (301) 621-5521 Wash. (410) 997-0298 Fax



|              |           |    |     |          |      |
|--------------|-----------|----|-----|----------|------|
| engineering  | M.P.      |    |     |          |      |
| illustration | M.P.      |    |     |          |      |
| approval     | J.M.      |    |     |          |      |
| project      | 99072     |    |     |          |      |
| date         | DEC. 2001 | BY | NO. | REVISION | DATE |

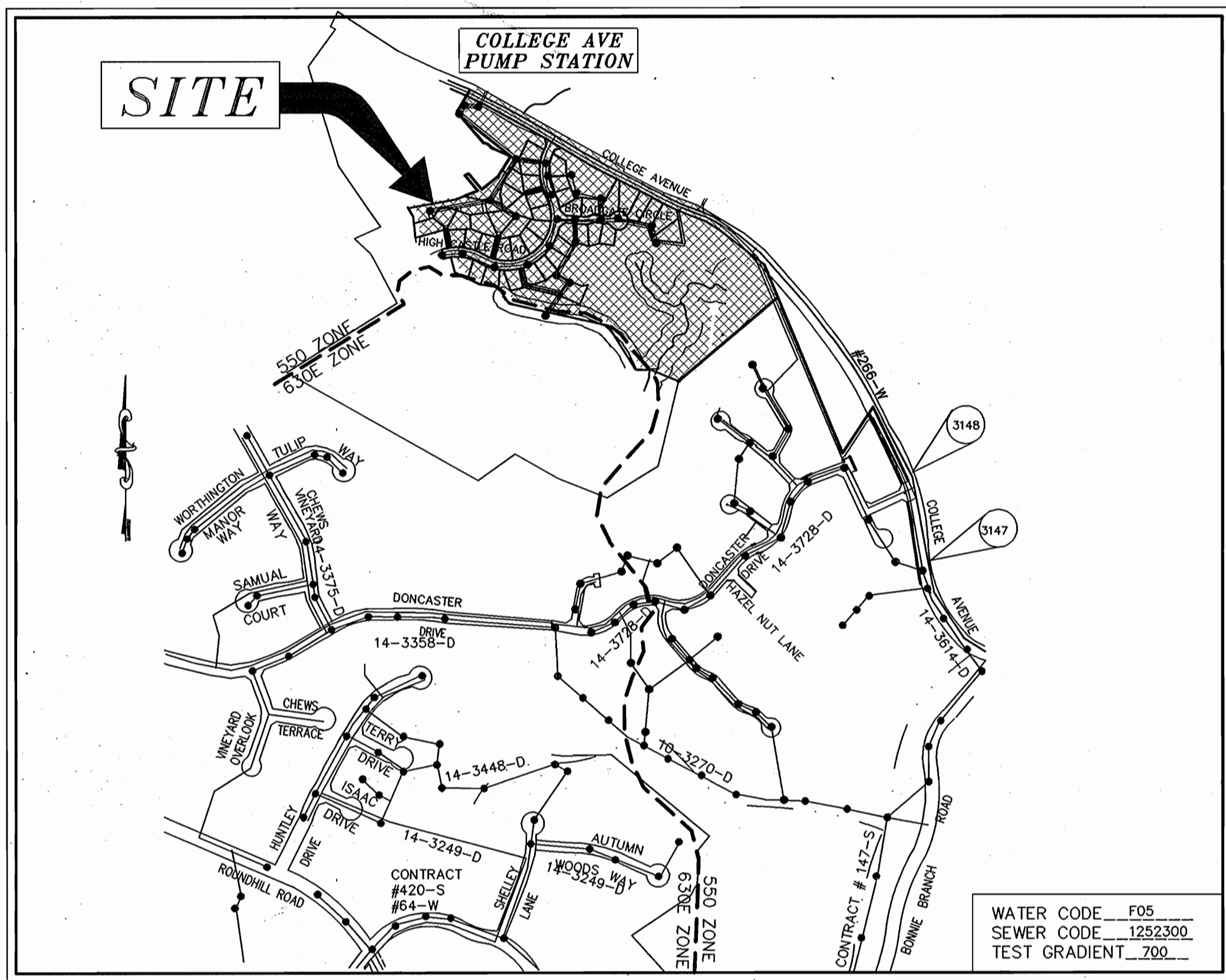
**SEWER PROFILES**  
600' SCALE MAP NO. 25 & 31 BLOCK NO. 2

**AUTUMN VIEW, SECTION 5**  
PHASE 1 LOTS 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

**QUANTITY TABLE**

| ITEMS                                      | QUANTITIES |            | TYPE | MANUFACTURER/SUPPLIER |
|--|------------|------------|------|-----------------------|
|  | ESTIMATED  | QUANTITIES |      |                       |
| STANDARD MH (HO. CO. STD.G-5.01)           | 26         | 26         |      | ATLANTIC CONCRETE     |
| DROP MH, TYPE "B" (HO. CO. STD. S-1.32)    | 2          | 1          |      | "                     |
| 8" SEWER MAIN                              | 3,943 L.F. | 3943       |      | GRIFFIN PIPE / BRS    |
| 4" SEWER HOUSE CONNECTION                  | 1,045 L.F. | 1045 L.F.  |      | BRS                   |
| # SEWER HOUSE CONNECTION                   | 46 EACH    | 46 EA.     |      |                       |
| 8" WATER                                   | 565 L.F.   | 563 L.F.   |      | GRIFFIN PIPE          |
| 12" WATER                                  | 1,208 L.F. | 1206 L.F.  |      | "                     |
| 1" WATER HOUSE CONNECTION                  | 1,150 L.F. | 1156 L.F.  |      | BRS                   |
| # 1" WHC                                   | 48 EACH    | 48 EA.     |      |                       |
| F.H.                                       | 4 EACH     | 4          |      | MOELLER / BRS         |
| 12" x 8" T                                 | 1 1/2 EACH | 1          |      | U.S. PIPE / "         |
| 8" V                                       | 1 EACH     | 1          |      | MOELLER / "           |
| 12" V                                      | 2 EACH     | 2          |      | " / "                 |
| 1/32 H.B. (8")                             | 1 EACH     | 1          |      | JM / "                |
| 1/8 H.B. (8")                              | 1 EACH     | 1          |      | " / "                 |
| 1/16 H.B. (8")                             | 2 EACH     | 2          |      | " / "                 |
| 12" X 12" TAPPING SLEEVE, & VALVE          | 1 EACH     | 1          |      | JCM / "               |
| 8"x6" T                                    | 1 EACH     | 1          |      | U.S. PIPE / BRS       |
| 8" CAP & BUTTRESS                          | 1 EACH     | 1          |      | " / "                 |
| 12" CAP & BUTTRESS                         | 1 EACH     | 1          |      | " / "                 |
| AIR REL.                                   | 1 EACH     | 1          |      | MOELLER / "           |
| STREAM CROSSING                            | 1 EACH     | 1          |      |                       |
| 12" x 6" T                                 | 3 EACH     | 3          |      | U.S. PIPE / BRS       |
| NAME OF UTILITY CONTRACTOR:                |            |            |      |                       |
| SURVEY AND DRAFTING DIVISION AS-BUILT DATE |            |            |      | 8/14/04 AS-BUILT      |

**EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER F-01-23**



**VICINITY MAP**  
SCALE: 1"=600'

|                                |  |
|--------------------------------|--|
| TYPE OF BUILDING               | SFD  |
| No. OF UNITS                   | 48   |
| No. OF WATER HOUSE CONNECTION  | 48   |
| No. OF SEWER HOUSE CONNECTIONS | 46   |
| DRAINAGE AREA                  | BONNIE BRANCH, PATAPSCO                        |
| TREATMENT PLANT                | PATAPSCO WASTEWATER TREATMENT PLANT, BALTIMORE |

**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 OWED 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-2450 AT LEAST FIVE (5) 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(a) OF HOWARD COUNTY CODE.
- 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.
- FOR SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL GS.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.
- STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- SEDIMENT CONTROL TO BE PROVIDED BY F-99-45.
- ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.
- ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.
- ALL HOUSES WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.
- THE EXISTING WELL AND SEPTIC SERVICING EXISTING HOUSE(S) ARE TO BE ABANDONED.
- 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.
- LOTS 233 AND 234 SHALL HAVE OUTSIDE WATER METER.

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.

DEVELOPER'S SIGNATURE: Bruce Taylor, Pres. DATE: 12/18/02

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRELIMINARY AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

ENGINEER'S SIGNATURE: John B. Mildenberg DATE: 12/17/02

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE: 1/17/02

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

HOWARD SCD DATE: 1/17/02

PLAN REFERENCE NUMBERS

|         |
|---------|
| S-99-01 |
| P-00-08 |
| F-01-23 |

**CONTRACT NO.: 14-3895-D**  
**AUTUMN VIEW, SECTION 5, PHASE I**  
**WATER AND SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

**INDEX OF DRAWINGS**

| NO. | DESCRIPTION          |
|-----|----------------------|
| 1   | TITLE SHEET          |
| 2   | WATER AND SEWER PLAN |
| 3   | WATER PROFILES       |
| 4   | SEWER PROFILES       |
| 5   | SEWER PROFILES       |

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DATE: 1-7-02

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
DATE: 1/17/02

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 897-0286 Balt. (301) 621-5521 Wash. (410) 897-0288 Fax.

|              |          |    |                     |          |  |
|--------------|----------|----|---------------------|----------|--|
| engineering  | M.P.     |    |                     |          |  |
| illustration | M.P.     |    |                     |          |  |
| approval     | J.M.     |    |                     |          |  |
| project      | 99072    | NO | AS-BUILT DATA ADDED | 11/21/04 |  |
| date         | OCT.2001 | BY | NO.                 | DATE     | 600' SCALE MAP NO. 25 & 31 BLOCK NO. 2 |

**TITLE SHEET**

**AUTUMN VIEW, SECTION 5**  
**PHASE I LOTS 231-259**  
CONTRACT NO.: 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

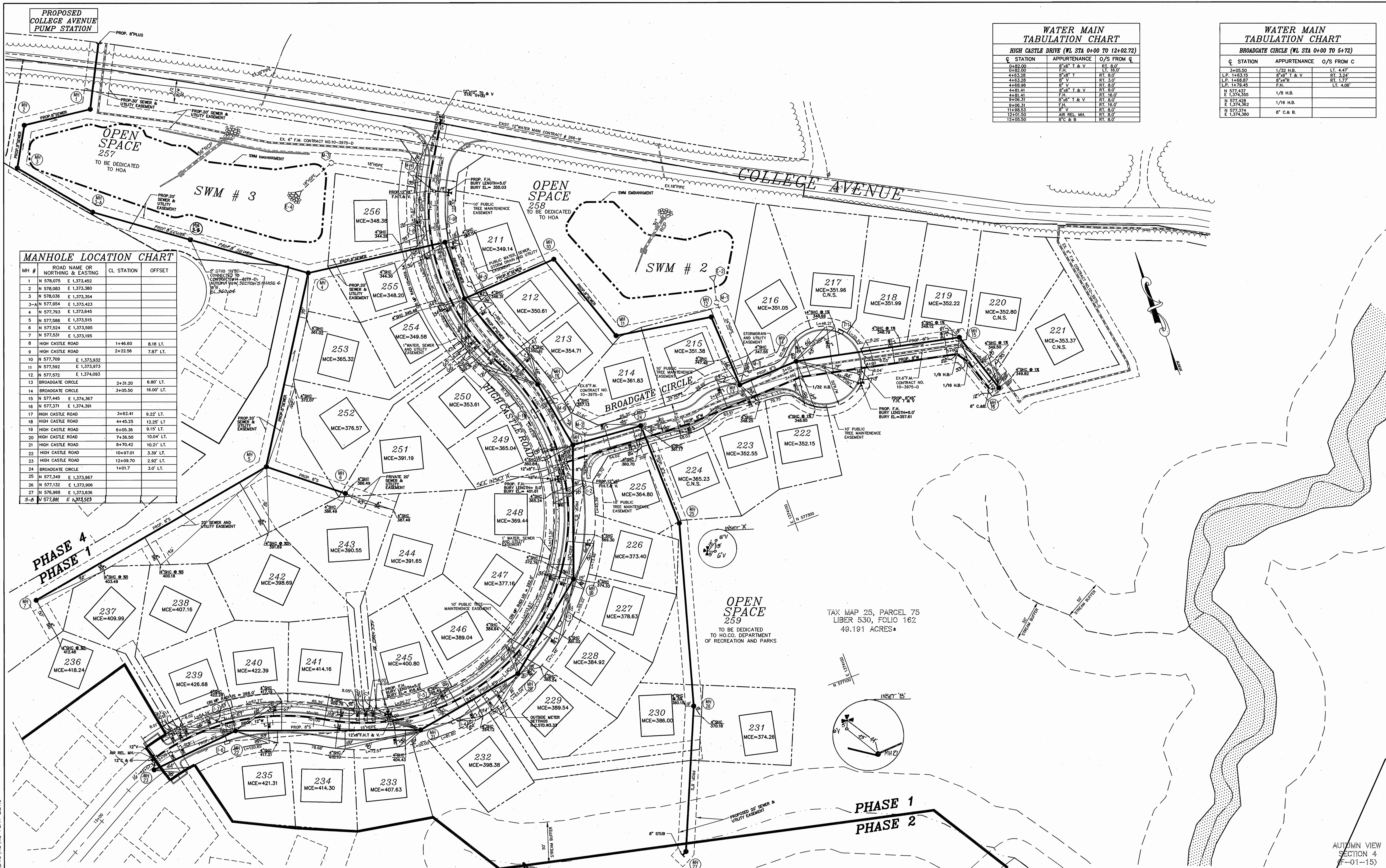


PROPOSED COLLEGE AVENUE PUMP STATION

| WATER MAIN TABULATION CHART                 |              |            |
|---|--------------|------------|
| HIGH CASTLE DRIVE (WL STA 0+00 TO 12+02.72) |              |            |
| ¢ STATION                                   | APPURTENANCE | O/S FROM ¢ |
| 0+82.00                                     | 8" T & V     | LT. 4.47'  |
| 0+82.00                                     | 8" T & V     | LT. 16.0'  |
| 4+63.28                                     | 8" T         | RT. 8.0'   |
| 4+63.28                                     | 8" V         | RT. 3.0'   |
| 4+68.96                                     | 8" V         | RT. 8.0'   |
| 4+81.41                                     | 8" T & V     | RT. 8.0'   |
| 4+81.41                                     | F.H.         | RT. 16.0'  |
| 9+06.31                                     | 8" T & V     | RT. 8.0'   |
| 9+06.31                                     | F.H.         | RT. 16.0'  |
| 11+88.53                                    | 8" V         | RT. 8.0'   |
| 12+01.50                                    | AIR REL. MH. | RT. 8.0'   |
| 12+05.50                                    | 8" C & B     | RT. 8.0'   |

| WATER MAIN TABULATION CHART            |              |            |
|--|--------------|------------|
| BROADGATE CIRCLE (WL STA 0+00 TO 5+72) |              |            |
| ¢ STATION                              | APPURTENANCE | O/S FROM C |
| 3+05.50                                | 1/32 H.B.    | LT. 4.47'  |
| L.P. 1+48.15                           | 8" T & V     | RT. 3.24'  |
| L.P. 1+48.87                           | 8" T & V     | RT. 1.77'  |
| L.P. 1+79.45                           | F.H.         | LT. 4.06'  |
| N 577.437                              | 1/8 H.B.     |            |
| N 577.428                              | 1/16 H.B.    |            |
| E 1,374.355                            | 1/16 H.B.    |            |
| N 577.374                              | 8" C & B     |            |
| E 1,374.380                            | 8" C & B     |            |

| MH # | ROAD NAME OR NORTHING & EASTING | CL. STATION | OFFSET     |
|------|---------------------------------|-------------|------------|
| 1    | N 578.075 E 1,373.482           |             |            |
| 2    | N 578.083 E 1,373.380           |             |            |
| 3    | N 578.036 E 1,373.354           |             |            |
| 3-A  | N 577.954 E 1,373.423           |             |            |
| 4    | N 577.793 E 1,373.645           |             |            |
| 5    | N 577.588 E 1,373.515           |             |            |
| 6    | N 577.524 E 1,373.595           |             |            |
| 7    | N 577.531 E 1,373.195           |             |            |
| 8    | HIGH CASTLE ROAD                | 1+46.60     | 8.18' LT.  |
| 9    | HIGH CASTLE ROAD                | 2+22.56     | 7.87' LT.  |
| 10   | N 577.709 E 1,373.932           |             |            |
| 11   | N 577.592 E 1,373.973           |             |            |
| 12   | N 577.572 E 1,374.093           |             |            |
| 13   | BROADGATE CIRCLE                | 2+31.20     | 6.80' LT.  |
| 14   | BROADGATE CIRCLE                | 3+05.50     | 16.00' LT. |
| 15   | N 577.445 E 1,374.367           |             |            |
| 16   | N 577.371 E 1,374.391           |             |            |
| 17   | HIGH CASTLE ROAD                | 3+62.41     | 9.22' LT.  |
| 18   | HIGH CASTLE ROAD                | 4+45.25     | 12.25' LT. |
| 19   | HIGH CASTLE ROAD                | 6+05.36     | 9.15' LT.  |
| 20   | HIGH CASTLE ROAD                | 7+36.50     | 10.04' LT. |
| 21   | HIGH CASTLE ROAD                | 8+70.42     | 10.21' LT. |
| 22   | HIGH CASTLE ROAD                | 10+97.01    | 3.39' LT.  |
| 23   | HIGH CASTLE ROAD                | 12+09.70    | 2.92' LT.  |
| 24   | BROADGATE CIRCLE                | 1+01.7      | 3.0' LT.   |
| 25   | N 577.349 E 1,373.987           |             |            |
| 26   | N 577.132 E 1,373.906           |             |            |
| 27   | N 576.968 E 1,373.836           |             |            |
| 3-B  | N 577.881 E 1,373.523           |             |            |



TAX MAP 25, PARCEL 75  
LIBER 530, FOLIO 162  
49.191 ACRES\*

AUTUMN VIEW SECTION 4  
F-01-15)

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
1-7-02  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
1/17/02  
DATE

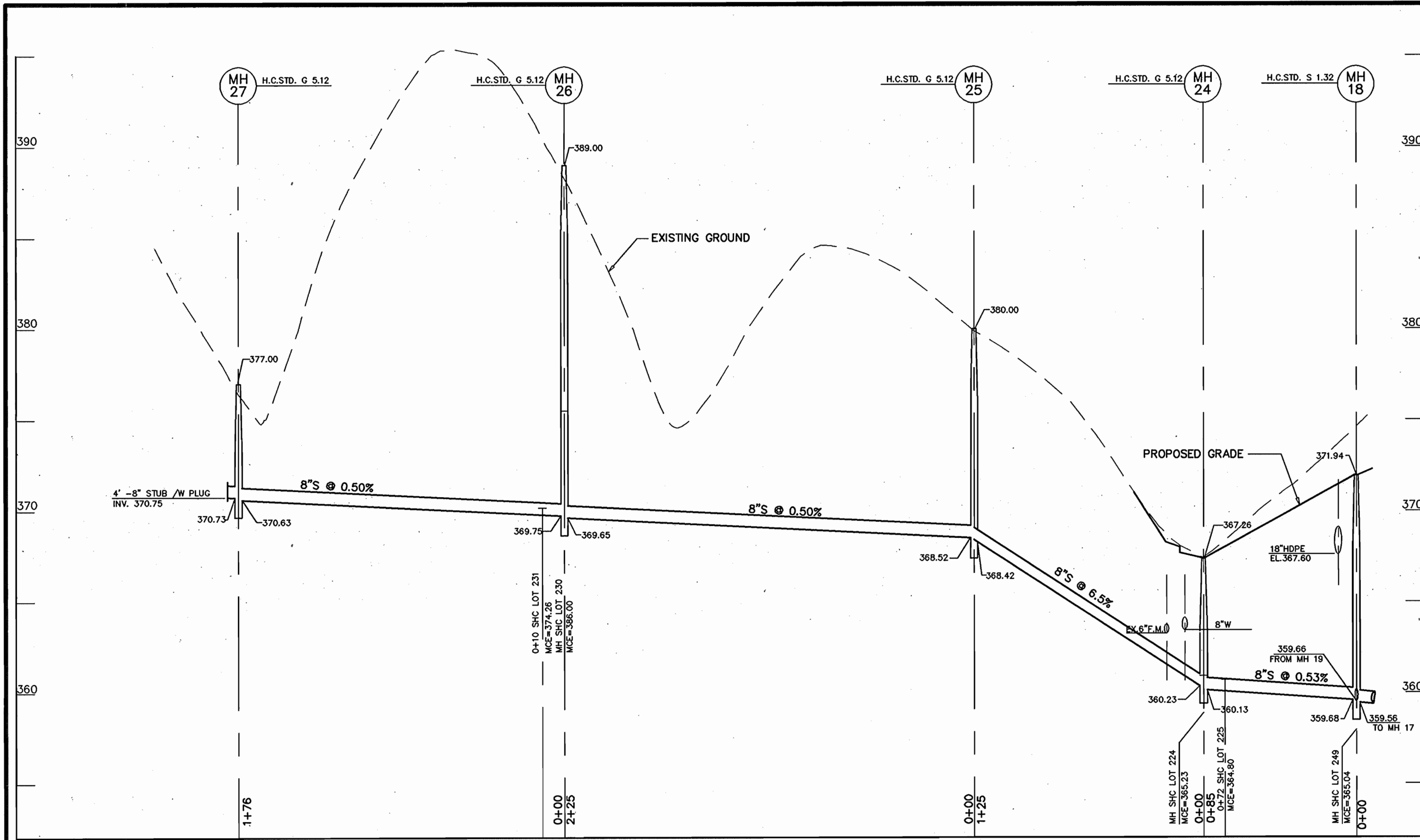
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0286 Bal. (301) 621-5521 Wash. (410) 997-0286 Pa.



|              |          |                         |          |      |  |
|--------------|----------|-------------------------|----------|------|--|
| engineering  | M.P.     |                         |          |      |  |
| illustration | M.P.     |                         |          |      |  |
| approval     | J.M.     |                         |          |      |  |
| project      | 99072    | AS-BUILT DATA ADDED     | 11/29/01 |      |  |
| date         | DEC.2001 | ADD MH-38 TO SEWER MAIN | 8/26/03  |      |  |
|              | BY       | NO.                     | REVISION | DATE |  |

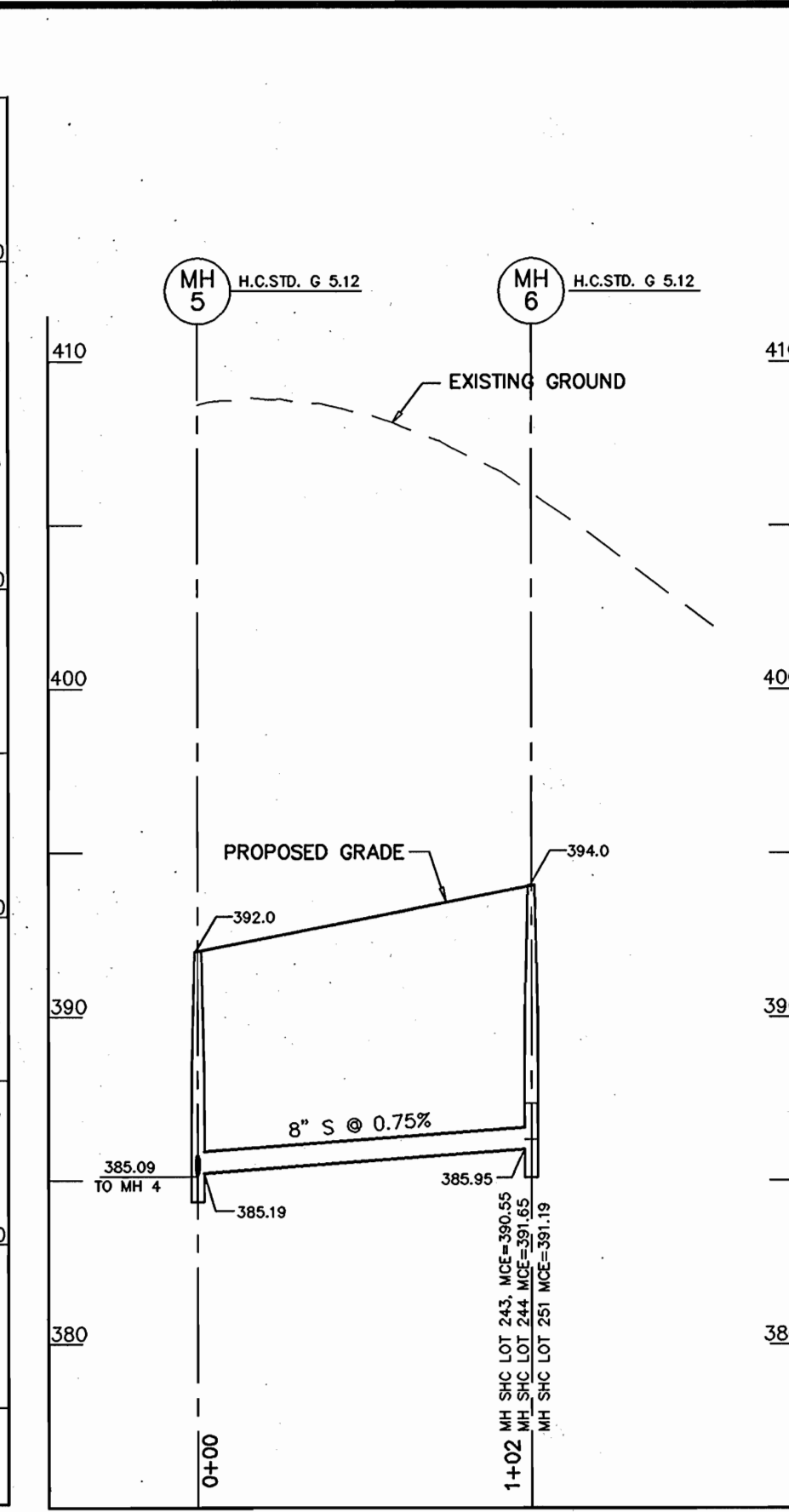
**WATER AND SEWER PLAN**  
600' SCALE MAP NO. 25 & 31 BLOCK NO. 2

**AUTUMN VIEW, SECTION 5**  
PHASE 1 Lots 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY  
scale 1"=50'  
2 OF 5



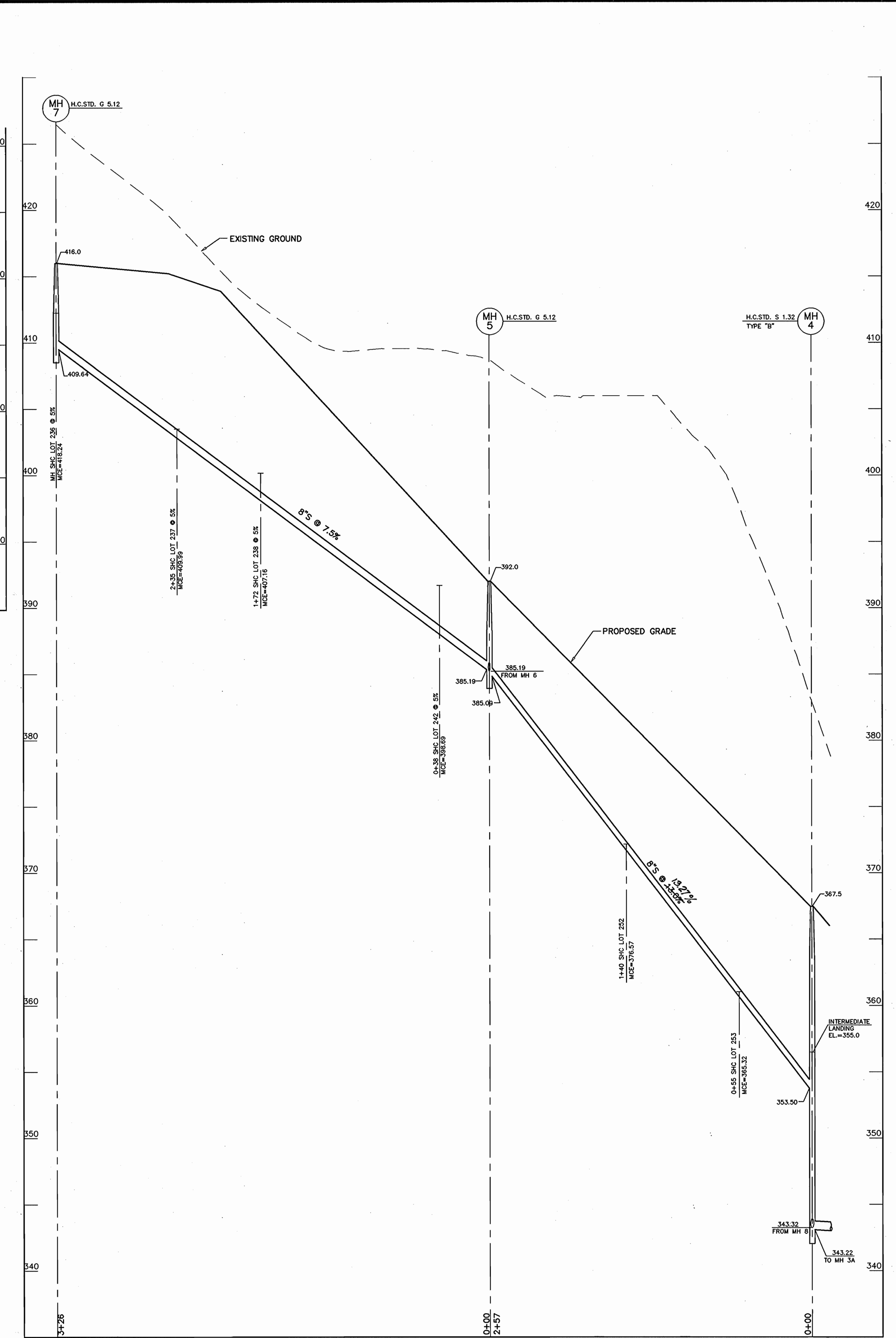
**8" SEWER PROFILE**

SCALE: HOR. 1"=50'  
VER. 1"=5'



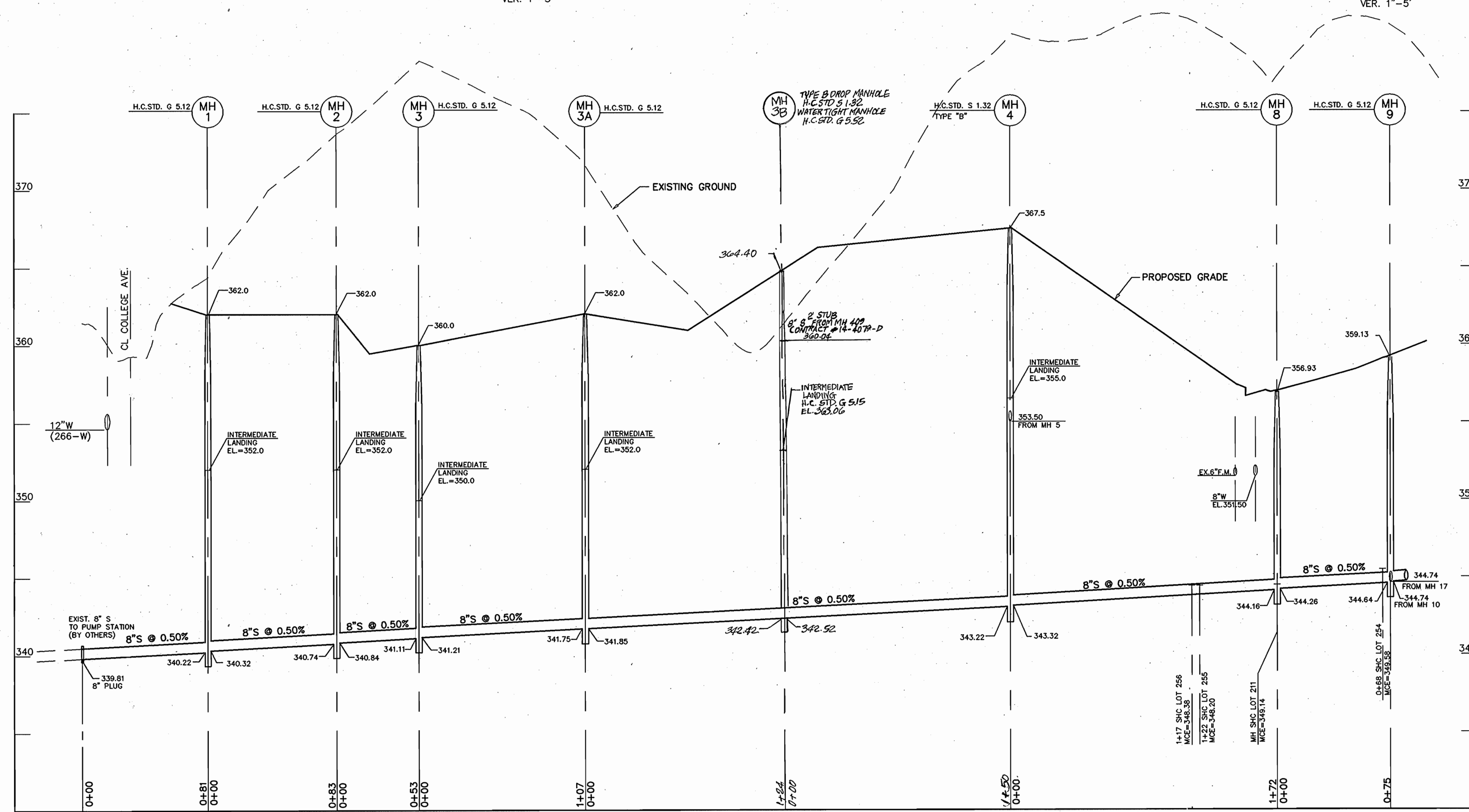
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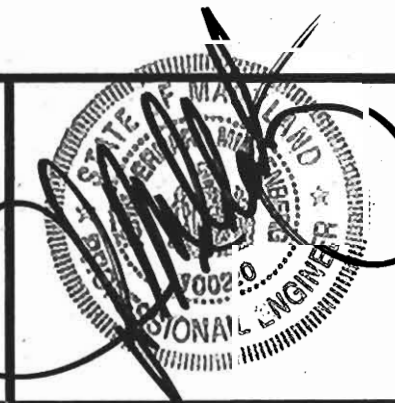
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97072\PHASE-1\WS 5-PROF.DWG

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

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



|              |       |          |           |    |     |
|--------------|-------|----------|-----------|----|-----|
| engineering  | M.P.  |          |           |    |     |
| illustration | M.P.  |          |           |    |     |
| approval     | J.M.  |          |           |    |     |
| project      | 99072 | DATE     | DEC. 2001 | BY | NO. |
| revision     | 1     | REVISION |           |    |     |

**SEWER  
PROFILES**

**AUTUMN VIEW, SECTION 5**  
PHASE 1 LOTS 211-259  
CONTRACT # 14-3895-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY

scale  
HOR. 1"=50'  
VER. 1"=5'  
4 OF 5

*Robert Berman* 1-7-02  
CHIEF, BUREAU OF UTILITIES DATE

*Michael J. Boender* 1/17/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

5072 Dorsey Hall Drive, Suite 202, Elliott City, Maryland 21842  
(410) 997-0296 Balt. (301) 621-5221 Wash. (410) 997-0298 Fax

DATE 11/29/01  
600' SCALE MAP NO. 25 & 31 BLOCK NO. 2