

GENERAL NOTES:

- PART I**
- APPROXIMATE LOCATION 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.
 - THE EXISTING FEATURES AND CONTOURS SHOWN HEREON ARE BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY FREDERICK WARD ASSOCIATES, INC. IN APRIL, 2002. FIELD LOCATION OF SPECIFIC TREES AND HOWARD COUNTY PHOTOGRAMMETRIC.
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCED SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 174B AND 170A. ALL VERTICAL CONTROLS SHOWN ARE BASED ON NAVD '88 HOWARD COUNTY CONTROLS 174B AND 170A.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - 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 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 MONIES 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 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 LOCATION OF THE TEST PIT. A NOTES 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 OPERATION AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
 AT & T 1-800-252-1133
 BGE (CONTRACTOR SERVICE) 410-850-4820
 BGE (UNDERGROUND DAMAGE CONTROL) 410-787-9068
 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 THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUTTING OR BORING JACKING OF ANY COUNTY ROAD FOR LAYING BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.
 - PROVIDE CAST IRON ROADWAY BOXES FOR WHC BALL VALVE WITHIN PAVED AREAS.
 - ALL STRUCTURE MUST BE LOCATED A MINIMUM OF 10 FEET FROM ANY PUBLIC WATER AND SEWER EASEMENT.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 INSTALLED IN ACCORDANCE WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND 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.

PART III - SEWER

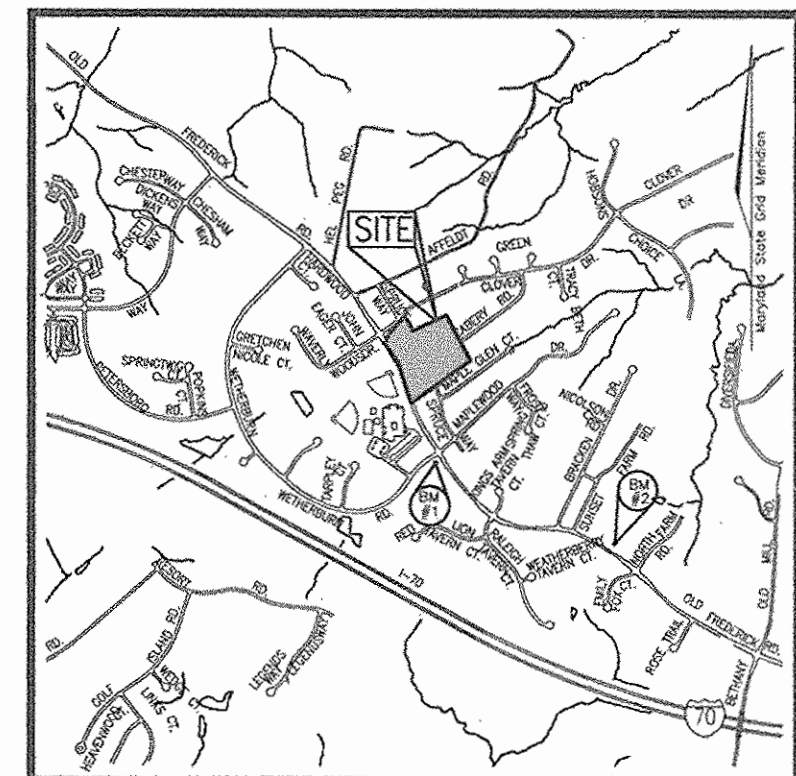
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAIN SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT 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 CELLAR CANNOT BE SERVED.

MARGARET'S FANCY

LOTS 1-20 AND OPEN SPACE LOTS 13, 15 & 21

HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4239-D

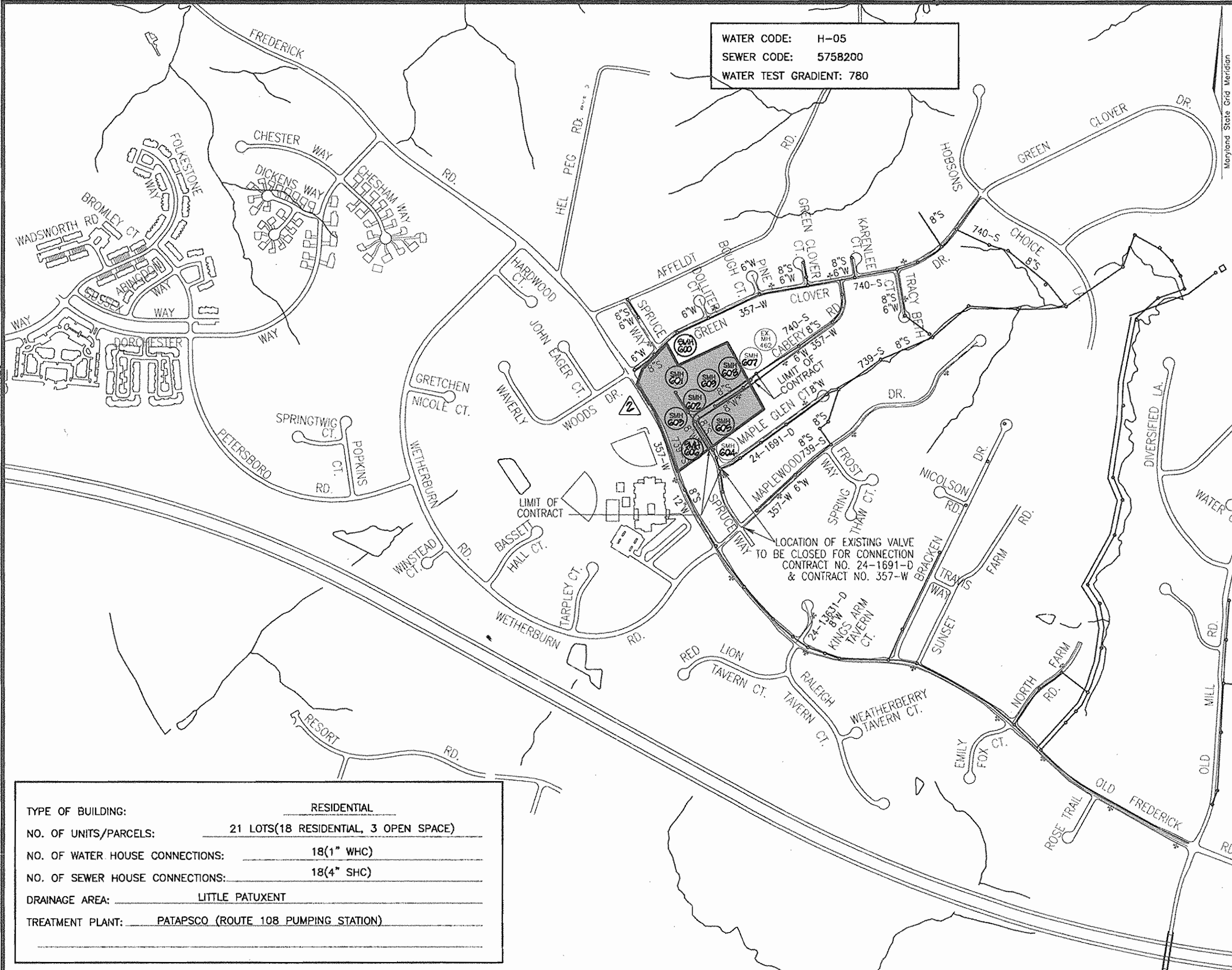


VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS

BENCHMARK NO. 1:
 HOWARD COUNTY CONTROL STA. 174B
 N. 598435.266 E. 1348615.278
 ELEV. = 506.66

BENCHMARK NO. 2:
 HOWARD COUNTY CONTROL STA. 170A
 N. 595410.785 E. 1351641.140
 ELEV. = 482.019



LOCATION PLAN
SCALE: 1"=600'

| QUANTITIES | | | | |
|---|----------------------|---------------|---------|-------------------------|
| NAME OF UTILITY CONTRACTOR: CONSOLIDATE CONSTRUCTION SERVICES | | | | |
| SURVEY AND DRAFTING DIVISION AS-BUILT DATE: | | | | |
| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | |
| | | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
| 8" WATER MAIN | 753 LF | 750 L.F. | DIP | GRIFFIN PIPE |
| 6" WATER MAIN | 254 LF | 301.00 L.F. | DIP | " " |
| FIRE HYDRANT | 2 EACH | 2 | | MUELLER/BRS |
| 8"x6" FIRE HYDRANT TEE AND VALVE | 2 EACH | 2 | DUCTILE | U.S. PIPE/BRS |
| 6"x8" RED | 1 EACH | 1 | MJ | " " |
| 8" VALVE | 1 EACH | 3 | R&GV | MUELLER/BRS |
| 6" VALVE | 1 EACH | 1 | " | " " |
| 8" SEWER | 1,191 LF | 1,054.50 L.F. | PVC | J.M. MFG/BRS |
| MANHOLES | 10 EACH | 10 | PRECAST | ATLANTIC CONC. PRODUCTS |
| 1" WHC | 330 LF | 406.91 L.F. | COPPER | READING/BRS |
| 4" SHC | 971 LF | 411.50 L.F. | PVC/DIP | J.M. MFG & GRIFFIN/BRS |
| 8" SEWER, CLASS 52 D.I.P. | 127 LF | 126.00 L.F. | DIP | GRIFFIN/BRS |

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH F-04-168 AND WITH THESE PLANS FOR LIMIT OF DISTURBANCE.

| | |
|---|--|
| THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. SOIL CONSERVATION DISTRICT | REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. U.S. SOIL CONSERVATION DISTRICT NATURAL RESOURCE SERVICE |
|---|--|

| | |
|---|---|
| DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES | DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION |
|---|---|

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET ELLICOTT CITY, MD 21043
 TEL: 410.461.7666 FAX: 410.461.8961

| DES: | DRN: | CHK: | DATE: | BY: | NO. | REVISION | DATE |
|------|------|------|------------|-----|-----|---|---------|
| RJ | RJ | RHV | MARCH 2005 | | | | |
| | | PCC | | | 4 | AS-BUILT DATA SHOWN | 12/2/07 |
| | | PCC | | | 3 | ADD WHC AND SHC LOT 12 | 2/2/06 |
| | | PCC | | | 2 | REVISE VICINITY MAP TO REFLECT NEW ALIGNMENTS | 3/30/06 |
| | | PCC | | | 1 | REVISE QUANTITIES TO REFLECT NEW ALIGNMENTS | 3/30/06 |

PLAN & PROFILES

600' SCALE MAP NO. 17
 BLOCK NO. 7

MARGARET'S FANCY
 LOTS 1-20 AND OPEN SPACE LOTS 13, 15 & 21
 CONTRACT NO. 24-4239-D

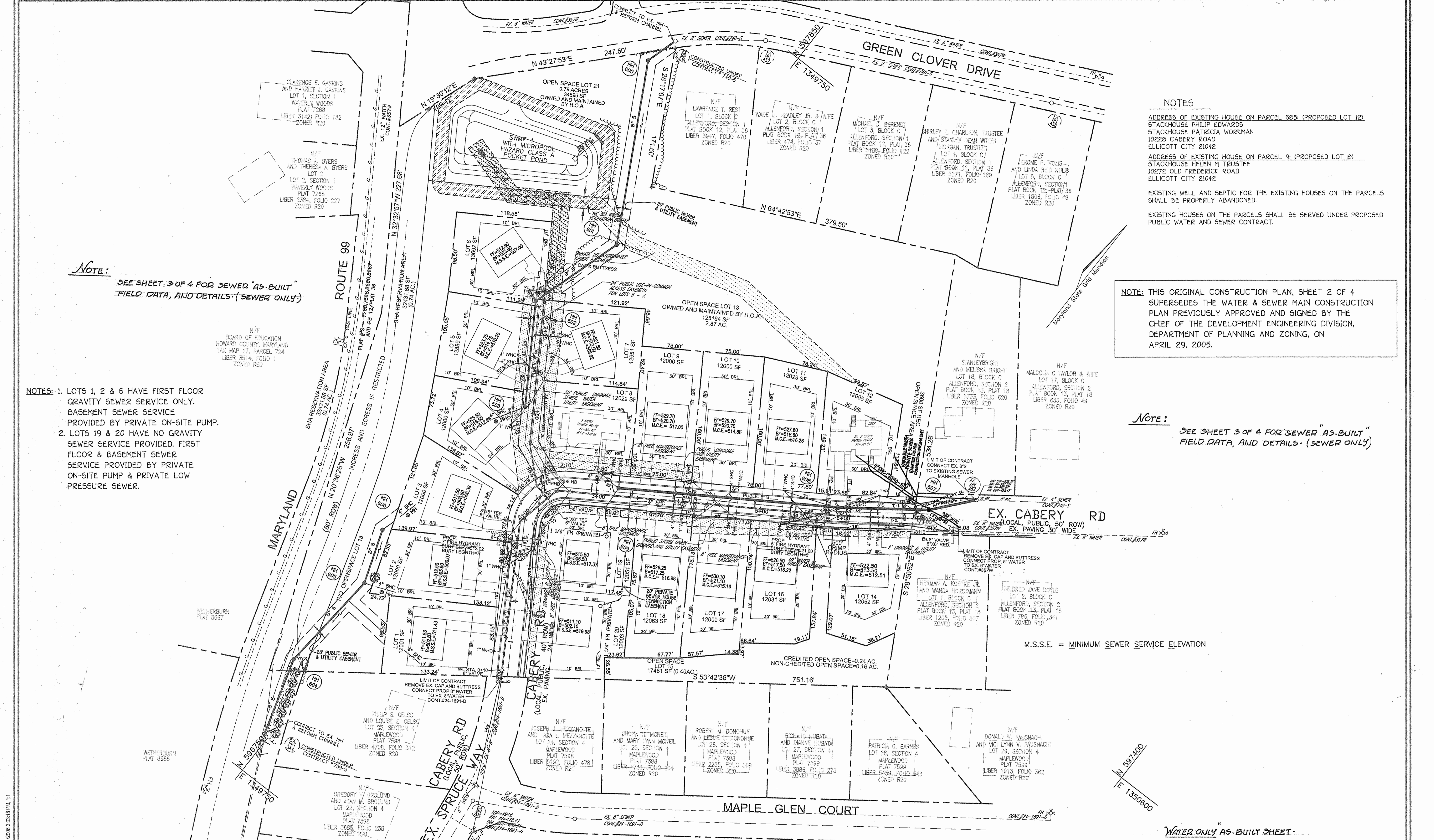
OWNER: M/M PHILIP E. STACKHOUSE AND HELEN M. STACKHOUSE, TRUSTEE, 10228 CABERY ROAD, ELLICOTT CITY, MARYLAND 21042

DEVELOPER: MARGARET'S FANCY LLC, C/O LAND DESIGN AND DEVELOPMENT, 8000 MAIN STREET, ELLICOTT CITY, MARYLAND 21043, (410) 480-9105

TAX MAP 17 BLOCK 7
 2ND ELECTION DISTRICT

PARCEL 9, 685
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 4



NOTE:
SEE SHEET 3 OF 4 FOR SEWER "AS-BUILT"
FIELD DATA, AND DETAILS - (SEWER ONLY)

- NOTES:**
- LOTS 1, 2 & 6 HAVE FIRST FLOOR GRAVITY SEWER SERVICE ONLY. BASEMENT SEWER SERVICE PROVIDED BY PRIVATE ON-SITE PUMP.
 - LOTS 19 & 20 HAVE NO GRAVITY SEWER SERVICE PROVIDED. FIRST FLOOR & BASEMENT SEWER SERVICE PROVIDED BY PRIVATE ON-SITE PUMP & PRIVATE LOW PRESSURE SEWER.

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING, ON APRIL 29, 2005.

NOTE:
SEE SHEET 3 OF 4 FOR SEWER "AS-BUILT"
FIELD DATA, AND DETAILS - (SEWER ONLY)

NOTES

ADDRESS OF EXISTING HOUSE ON PARCEL 605: (PROPOSED LOT 12)
STACKHOUSE PHILIP EDWARDS
STACKHOUSE PATRICIA WORKMAN
10228 CABERY ROAD
ELLCOTT CITY 21042

ADDRESS OF EXISTING HOUSE ON PARCEL 9: (PROPOSED LOT 8)
STACKHOUSE HELEN M TRUSTEE
10272 OLD FREDERICK ROAD
ELLCOTT CITY 21042

EXISTING WELL AND SEPTIC FOR THE EXISTING HOUSES ON THE PARCELS SHALL BE PROPERLY ABANDONED.

EXISTING HOUSES ON THE PARCELS SHALL BE SERVED UNDER PROPOSED PUBLIC WATER AND SEWER CONTRACT.

M.S.S.E. = MINIMUM SEWER SERVICE ELEVATION

WATER ONLY AS-BUILT SHEET

11/05/07 09:00 AM NRS DISE PLAN.dwg, 5/11/2008 3:03:16 PM, 11

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Rita Berman 9.5.06
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

ROBERT H. VOGEL
ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8951

| | | | | | |
|-------|------------|-----|-----|--|----------|
| DES: | RJ | | | | |
| DRN: | RJ | | | | |
| CHK: | RHV | KCI | 4 | AS-BUILT DATA SHOWN (PULLS REVISION 1+4+3) | 03/04/08 |
| DATE: | MARCH 2006 | RHV | 3 | ADD WHC AND SHC LOT 12 | 2-2-06 |
| | | BY | NO. | REVISION | DATE |

PLAN & PROFILES

600' SCALE MAP NO. 17
BLOCK NO. 7

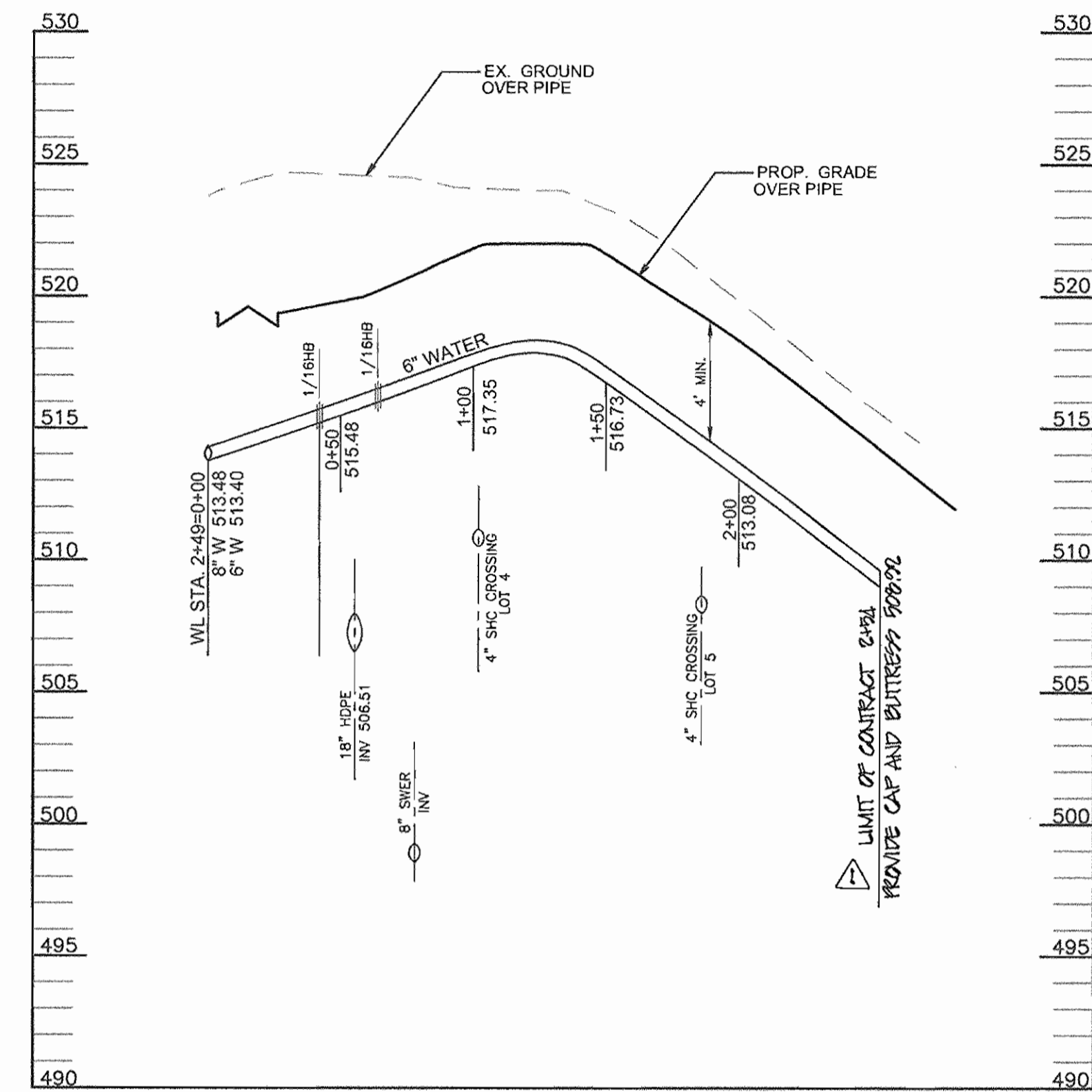
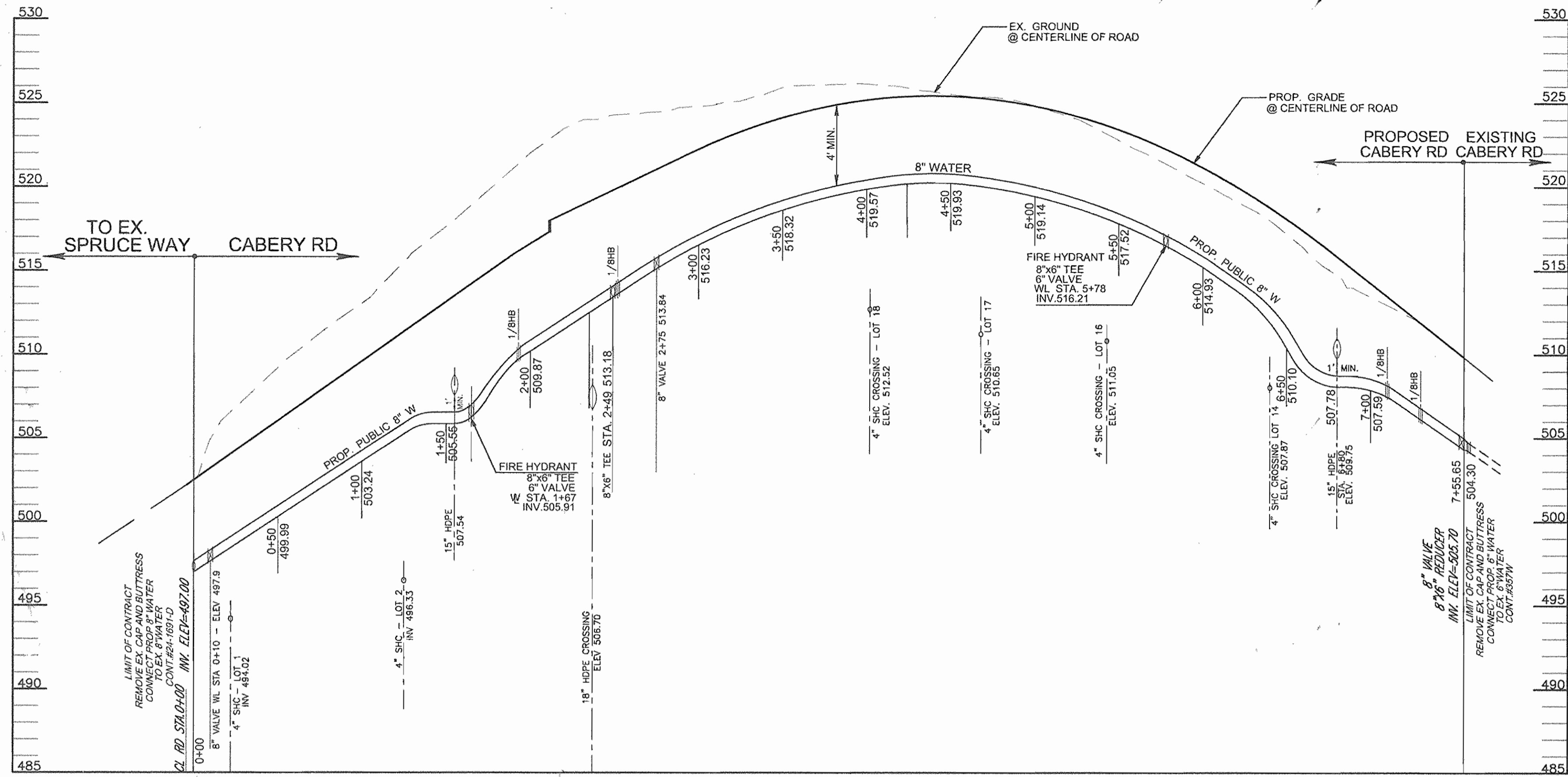


MARGARET'S FANCY
LOTS 1-20 AND OPEN SPACE LOTS 13, 15 & 21
CONTRACT NO. 24-4239-D

TAX MAP 17 BLOCK 7
2ND ELECTION DISTRICT

PARCEL 9, 685
HOWARD COUNTY, MARYLAND

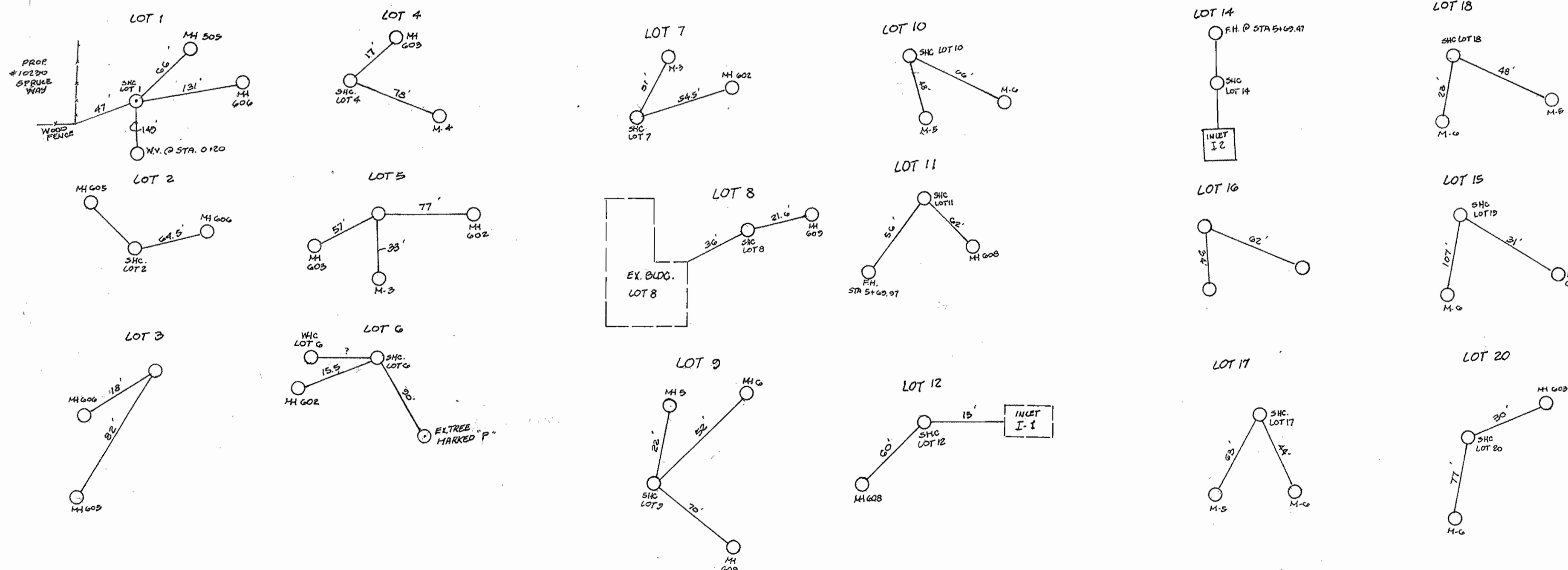
SCALE AS SHOWN
SHEET 2 OF 4



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

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

SEWER AS-BUILT FIELD DETAILS



| WL STA. | APPURTENANCE | OFFSET FROM CL OF THE ROAD NORTHING-EASTING |
|------------------------|--------------|---|
| 2+49 | 8"x6" TEE | - |
| 2+75 | 8" VALVE | 16' RIGHT |
| 1+65 | FIRE HYDRANT | 20' LEFT |
| 2+10 | 1/8" HB | 5' LEFT |
| 2+50 | 1/8" HB | - |
| 5+63 | FIRE HYDRANT | 22' RIGHT |
| USE-IN-COMMON DRIVEWAY | | |
| 1+93 | 1/8" HB | N 597212.50 E 1349820.65 |
| 2+52 | 1/8" HB | N 597247.36 E 1349835.03 |
| 7+10 | 1/8" HB | N 597502.60 E 1350218.65 |
| 7+30 | 1/8" HB | N 597498.87 E 1350238.04 |

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

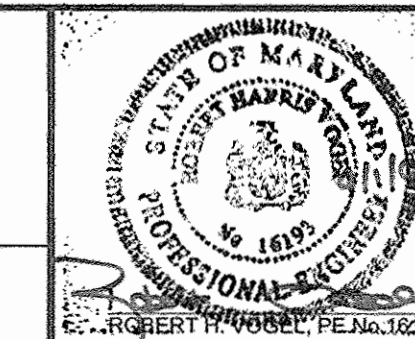
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.481.7666
ELLIOTT CITY, MD 21103 FAX: 410.481.8961

| | | | |
|------------------|---------|---|----------|
| DES: RJ | | | |
| DRN: RJ | | | |
| CHK: RHV | KCI | AS-BUILT DATA SHOWN | 12/15/07 |
| DATE: MARCH 2009 | BY: NO. | INSTALL AN ADDITIONAL 15' OF WATER MAIN | 3/30/09 |
| | | REVISION | DATE |

PLAN & PROFILES

600' SCALE MAP NO. 17
BLOCK NO. 7



MARGARET'S FANCY
LOTS 1-20 AND OPEN SPACE LOTS 13, 15 & 21
CONTRACT NO. 24-4239-D

TAX MAP 17 BLOCK 7
2ND ELECTION DISTRICT

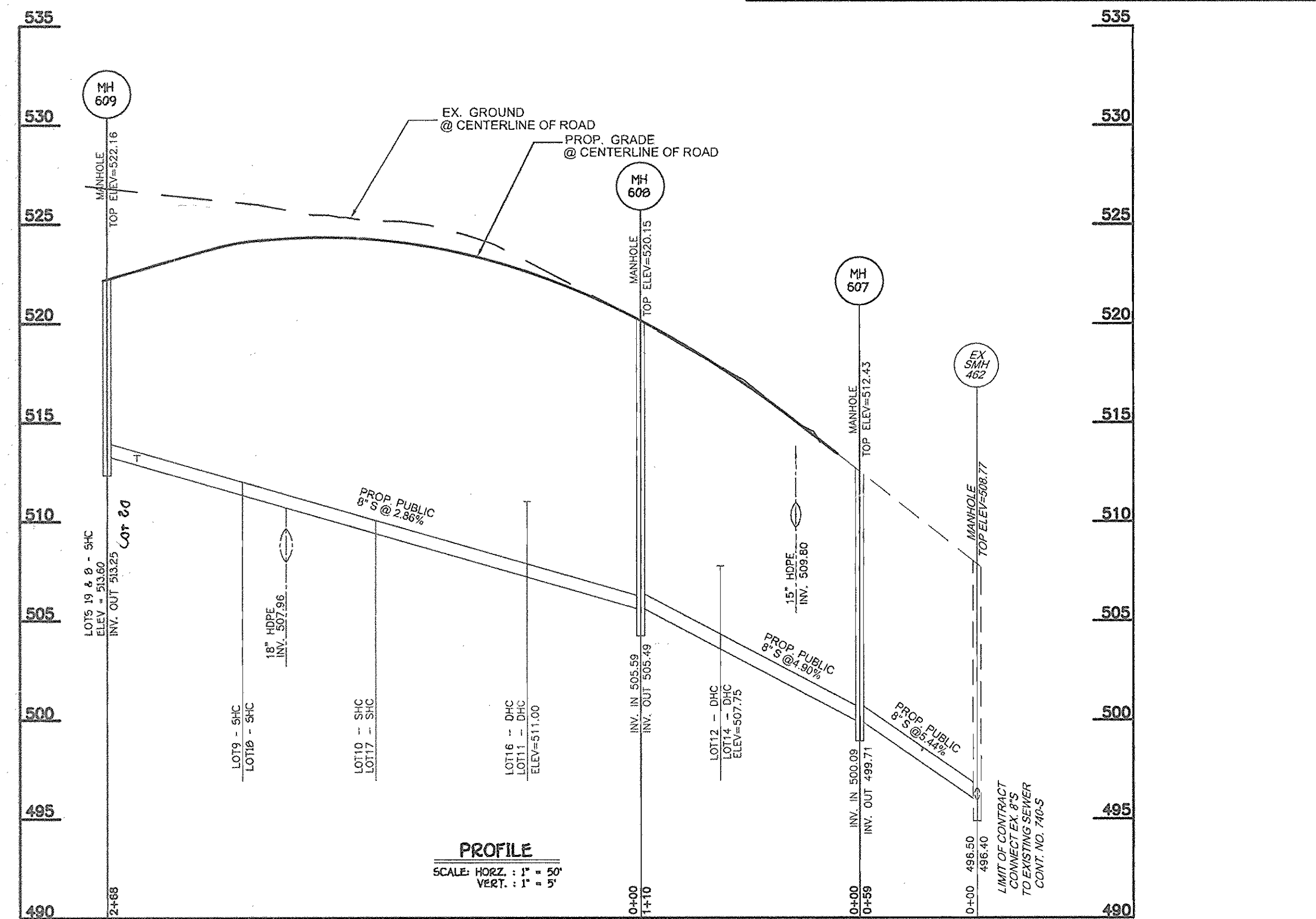
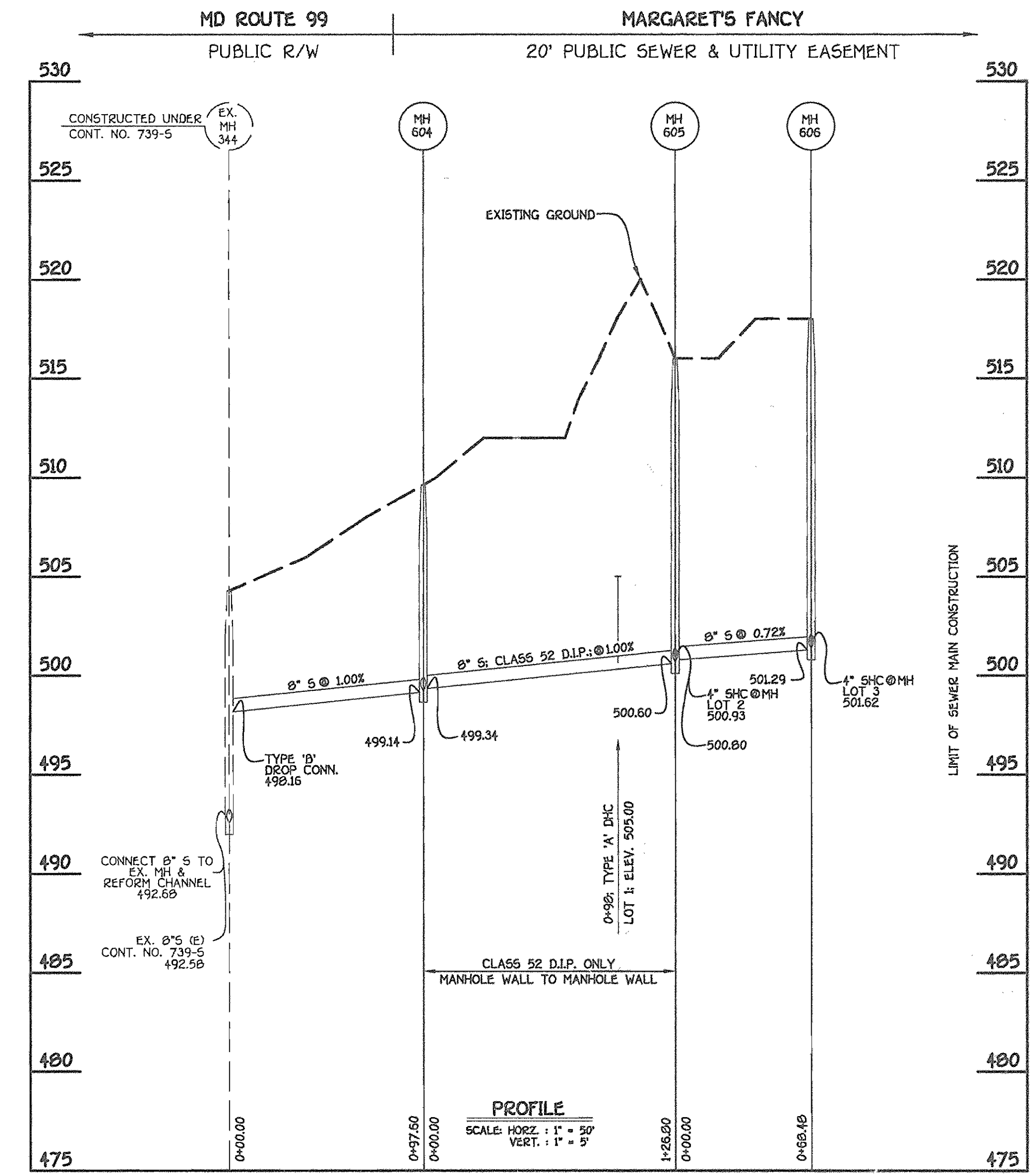
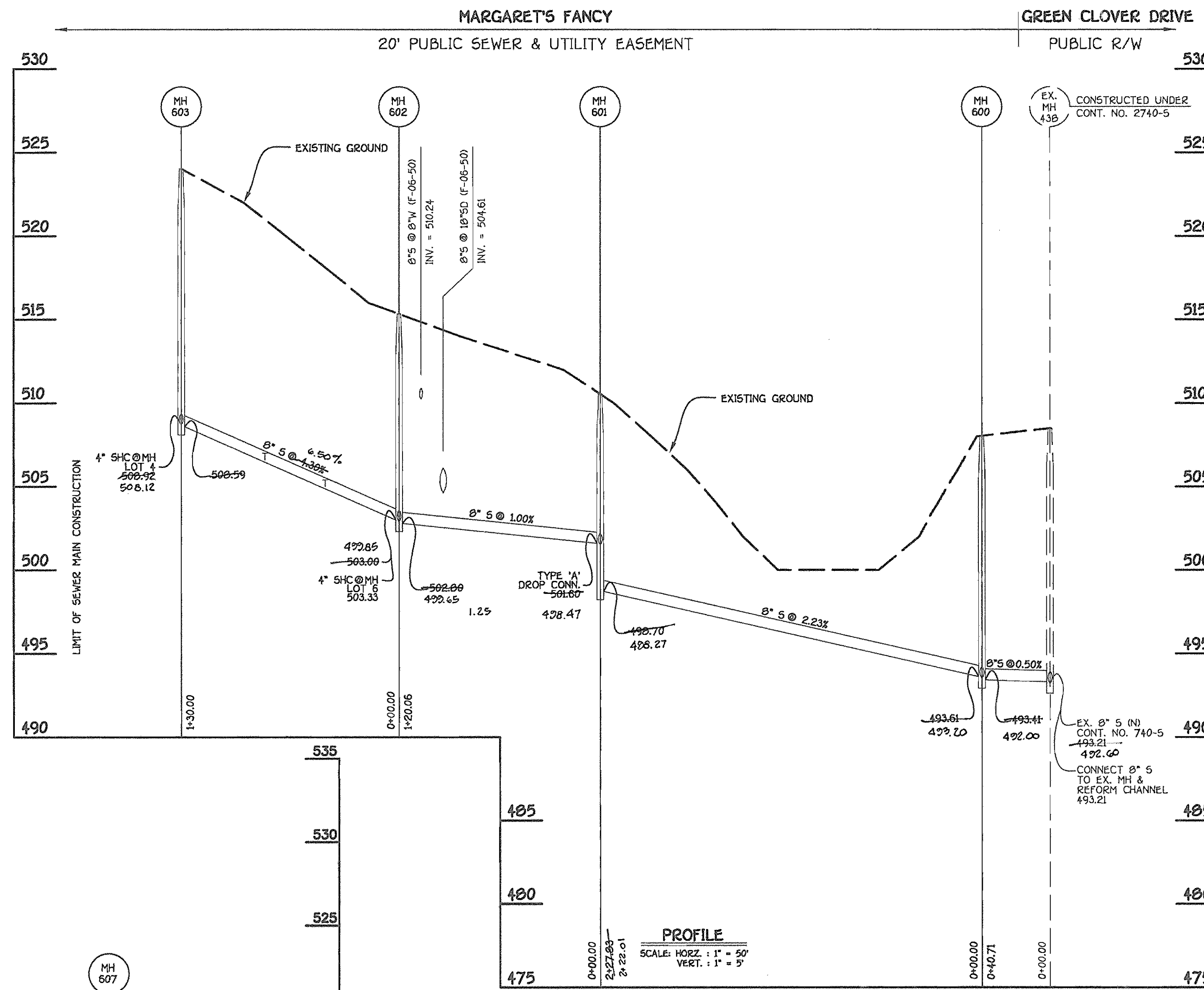
PARCEL 9, 685
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

Chief, Bureau of Utilities DATE
Chief, Development Engineering Division DATE 4/29/05

| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 600 | 997735.91 | 1349607.22 | 508.00 |
| 601 | 997535.28 | 1349715.16 | 510.55 |
| 602 | 997420.64 | 1349679.50 | 515.33 |
| 603 | 997310.71 | 1349718.90 | 524.03 |
| 604 | 996894.78 | 1349716.12 | 509.63 |
| 605 | 997021.16 | 1349726.62 | 516.00 |
| 606 | 997085.83 | 1349704.09 | 518.00 |
| 607 | 997513.53 | 1350214.30 | 522.22 |
| 608 | 997448.03 | 1350125.32 | 520.15 |
| 609 | 997302.66 | 1349899.73 | 512.53 |

| SHC INVERT @ PROPERTY LINE CHART | | |
|----------------------------------|-----|-----------|
| STATION | LOT | ELEVATION |
| MH 607 TO MH 608 | | |
| 0+70 LT. | 12 | 507.95 |
| 0+70 LT. | 14 | 508.09 |
| MH 608 TO MH 609 | | |
| 0+57 LT. | 15 | 511.52 |
| 0+57 RT. | 11 | 511.32 |
| 1+33 LT. | 17 | 510.00 |
| 1+33 RT. | 10 | 509.88 |
| 2+00 LT. | 18 | 511.98 |
| 2+00 RT. | 9 | 511.80 |
| 2+53 LT. | 20 | 513.50 |
| @ MH 609 RT. | 8 | 513.88 |
| @ MH 609 LT. | 19 | 513.87 |



8" SEWER MAIN: LOTS 4, 5, 6, & 7

8" SEWER MAIN: LOTS 1, 2 & 3

8" SEWER MAIN: LOTS 8 THRU 12, 14 & 16 THRU 20

| SHC INVERT @ PROPERTY LINE CHART | | |
|----------------------------------|-----------------|-----------|
| STATION | LOT | ELEVATION |
| MH 602 TO MH 603 | | |
| @ MH 602 RT. | 6 (SHC @ 1.00%) | 503.49 |
| 0+44 LT. | 7 (SHC @ 1.00%) | 505.42 |
| 0+80 RT. | 5 (SHC @ 1.00%) | 506.76 |
| @ MH 603 RT. | 4 (SHC @ 1.00%) | 509.09 |

| SHC INVERT @ PROPERTY LINE CHART | | |
|----------------------------------|-----|-----------|
| STATION | LOT | ELEVATION |
| MH 604 TO MH 605 | | |
| 0+98 RT. | 1 | 506.23 |
| MH 605 TO MH 606 | | |
| @ MH 605 RT. | 2 | 501.17 |
| @ MH 606 RT. | 3 | 501.96 |

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING, ON APRIL 29, 2005.

1/05/07 09:50:07 MSB DBASE PLAN.dwg, 3/31/2006 11:11:23 AM, 11

| | | | | | | | | |
|--|--|---|--|--|---|--|---|--|
| DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities <i>Ruth Beatty</i> 9-5-06 DATE | DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division <i>[Signature]</i> 9/2/05 DATE | ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS • SURVEYORS • PLANNERS 8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961 | DES: RJ DRN: RJ CHK: RHV DATE: MARCH 2006 | K.C.I. 1 BY NO. AS-BUILT DATA SHOWN REVISION DATE | PROFILES 600' SCALE MAP NO. 17 BLOCK NO. 7 | | MARGARET'S FANCY LOTS 1-20 AND OPEN SPACE LOTS 13, 15 & 21 CONTRACT NO. 24-4239-D TAX MAP 17 BLOCK 7 2ND ELECTION DISTRICT | SCALE AS SHOWN SHEET 4 OF 4 PARCEL 9, 685 HOWARD COUNTY, MARYLAND |
|--|--|---|--|--|---|--|---|--|