

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 TOPOGRAPHY SHOWN HEREON IS BASED ON AN AERIAL SURVEY BY VRM DATED FEBRUARY 2004.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:

THE HORIZONTAL COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 38DA AND 38GA.

GEODETIC SURVEY CONTROL 38DA (N 556796.2929/E 1390221.4861)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, 27.1' SOUTH OF
OF SSMH AT INTERSECTION OF KRISTIN DR. AND RYAN AVE., AND 12.7'
WEST OF CATV POLE LOCATED EAST OF RYAN AVE.
GEODETIC SURVEY CONTROL 38GA (N 555897.3157/E 1390132.1323)
BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED BETWEEN
CUL DE SAC OF RYAN AVE. AND ANDERSON AVE., 15.7' WEST OF SSMH,
AND 52.3' SOUTH EAST OF BCE#323644.

ALL VERTICAL CONTROLS ARE BASED ON (NAVD 27) TWO EXISTING PUBLIC SEWER MANHOLE RIM ELEVATIONS (CONT. 14-3342-D). VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:

SMH-191 N 555317 E 1389268 RIM ELEV. 70.19
SMH-192 N 555311 E 1389048 RIM ELEV. 74.08

- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- 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) 410-850-4620
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 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 WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

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 STANDARD DETAILS. THE 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.

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 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 FRAME AND COVERS ARE USED, SET TOP OF FRAME 1'-8" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-05-153.

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

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

John R. Robertson 4/27/06 *Jim Meyer* 4/29/06
SOIL CONSERVATION DISTRICT DATE SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael R. Lewis 4/16/06
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 5/2/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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



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| DES: | DZ | | | | |
| DRN: | DZ | | | | |
| CHK: | RHW | KCI | 2 | ASBUILT DATA | 3/23/06 |
| | | KCI | 1 | ASBUILT DATA | 4/16/06 |
| DATE: | APRIL 2006 | BY | NO. | REVISION | DATE |

**FINAL WATER PLAN
COVER SHEET**

**PATAPSCO VALLEY BUSINESS CENTER
CONTRACT NO. 14-4343-D**

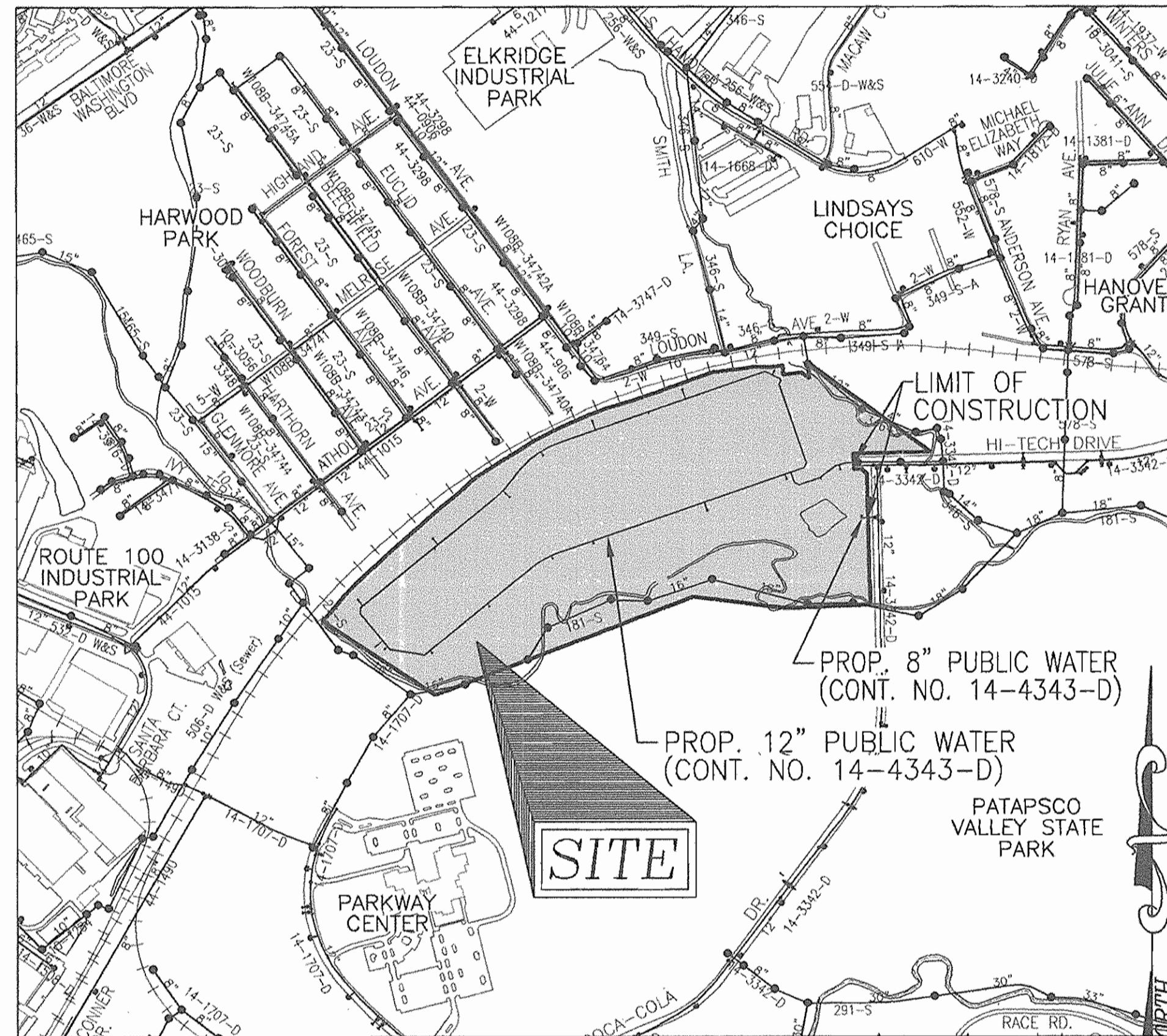
TAX MAP 38 BLOCK 19 PARCEL 1
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 7

FINAL WATER PLAN

PATAPSCO VALLEY BUSINESS CENTER PARCEL I CONT. No. 14-4343-D



LOCATION MAP
SCALE: 1"=600'

WATER CODE: A04
SEWER CODE: 2150500
TEST GRADIENT: 450

| | |
|---|--------------------------------------|
| Type of Building : | WAREHOUSE/OFFICE |
| No. of Lots/Parcels : | 1 |
| No. of single Water House Connections : | 3 |
| No. of twin Water House Connections : | 0 |
| No. of Sewer House Connections : | 3 |
| Drainage Area : | PATAPSCO RIVER LOWER NORTH BRANCH |
| Treatment Plant : | PATAPSCO RIVER |

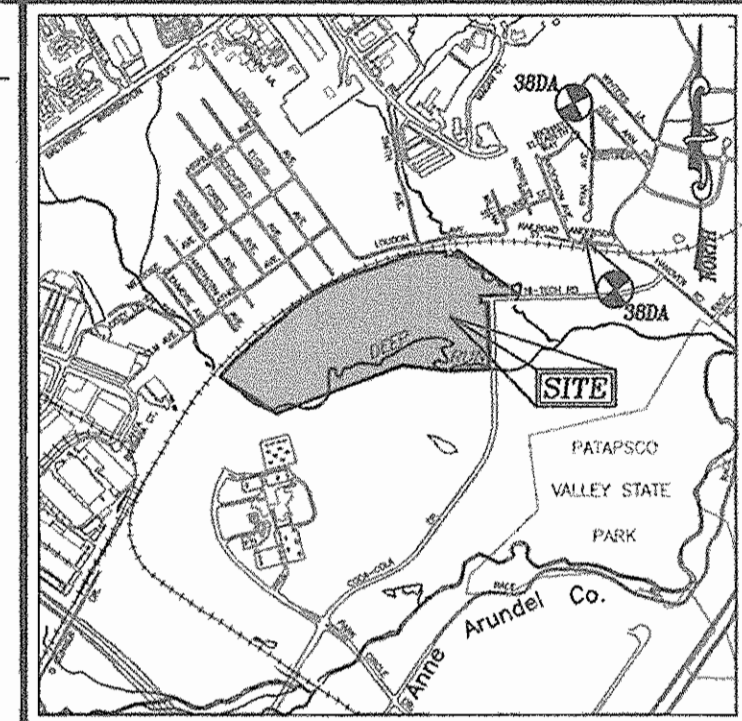
BENCHMARKS

COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 38DA, 38GA.

38DA N 556796.2929 E 1390221.4861
38GA N 555897.3157 E 1390132.1323

BENCH MARK ELEVATIONS BASED ON TWO EXISTING PUBLIC SEWER MANHOLE RIM ELEVATIONS (CONT. 14-3342-D).

SMH-191 N 555317 E 1389268 RIM ELEV. 70.19
SMH-192 N 555311 E 1389048 RIM ELEV. 74.08



VICINITY MAP
SCALE: 1"=2000'

QUANTITIES

| NAME OF UTILITY CONTRACTOR : | | SURVEY AND DRAFTING DIVISION AS-BUILT DATE : | | | |
|------------------------------|----------------------|--|------------|-----------------------|--------|
| ITEMS | QUANTITIES ESTIMATED | AS-BUILT | | | |
| | | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER | |
| WATER | | | | | |
| 12" WATER | 6045 LF | 6045 | CL SLOIP | CORPILU PIPE | B.R.S. |
| 8" WATER | 128 LF | 128 | " | " | " |
| 6" WATER | 475 LF | 475 | " | " | " |
| 12" x 12" TEE | 1 EA | 1 EA. | " | SIGMA | " |
| 12" x 8" TEE | 4 EA | 4 EA. | " | " | " |
| 12" x 6" TEE | 13 EA | 13 | " | " | " |
| 12" VALVE | 26 EA | 25 | R30RCATE | MUELLER CO. | " |
| 8" VALVE | 6 EA | 4 | " | " | " |
| 6" VALVE | 16 EA | 16 | " | " | " |
| 6" FIRE HYDRANT | 16 EA | 16 | MUELLER | " | " |
| 12" - 1/8 BEND | 12 EA | 12 | DIP | SIGMA | " |
| 12" - 1/16 BEND | 2 EA | 2 | DIP | " | " |
| 12" - 1/32 BEND | 1 EA | 1 | DIP | " | " |
| 12" - 1/32 VERT. BEND | 2 EA | 2 | DIP | " | " |
| 8" CAP AND BUTTRESS | 5 EA | 2 | DIP | " | " |
| 8" x 6" TEE | 1 EA | 1 | DIP | " | " |
| SEWER | | | | | |
| 8" PVC | 10 LF | | PVC SDR35 | J.H. MFG. | B.R.S. |
| 4" PRECAST MANHOLE | 1 EA | | DOB HOUSES | ATLANTIC | |

PARCEL D1
PATAPSCO VALLEY
BUSINESS CENTER
PLAT NO. 16377
CIVF I - MD1M02
& MD1M03 LLC
L 8444 F 485

DISTRIBUTION
CENTER 1
456,240 SF.
FF=86.50

BALTIMORE & OHIO RAILROAD

BUILDING 3
50,690 SF.
FF=78.49

COCA COLA DRIVE
PUBLICLY DEDICATED
LOCAL ROAD

HI TECH DRIVE
PUBLICLY DEDICATED
LOCAL ROAD

PARCEL C
PATAPSCO VALLEY BUSINESS CENTER
PLAT NO. 15495
PATAPSCO VALLEY DEV. CORP.
L 5551 F 385
ZONED M-2

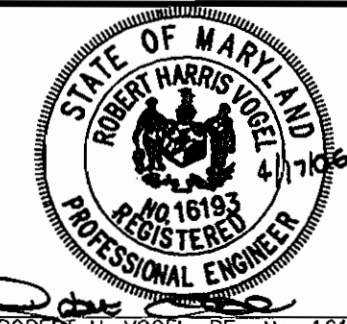
PLAN VIEW
SCALE: 1"=50'

DEVELOPER
CROSSROADS VENTURE, LLC.
C/O J. PAUL PRICE
101 CONSTITUTION AVENUE, NW, SUITE 600E
WASHINGTON, DC 20001

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERING, INC.
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| NO. | | | | | |
| REVISION | | | | | |
| DATE | | | | | |
| 600' SCALE MAP NO. | 38 | | | | |
| BLOCK NO. | 19 | | | | |

FINAL WATER PLAN
PLAN VIEW

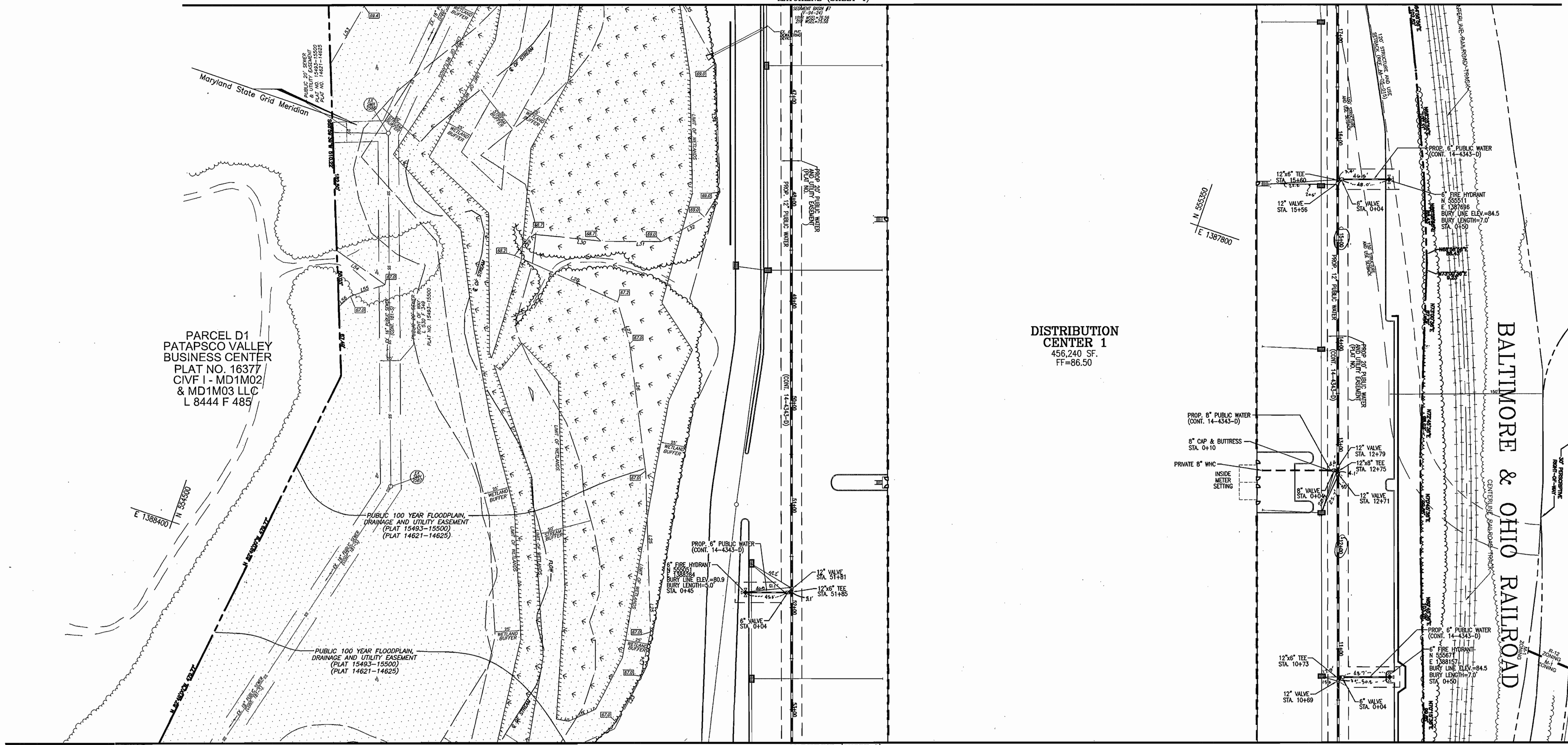
PATAPSCO VALLEY BUSINESS CENTER
CONTRACT NO. 14-4343-D

TAX MAP 38 BLOCK 19
1ST ELECTION DISTRICT

SCALE
AS
SHOWN
SHEET
2 OF 7

PARCEL 1
HOWARD COUNTY, MARYLAND

MATCHLINE (SHEET 4)



MATCHLINE (SHEET 2)

PLAN VIEW
SCALE: 1"=50'

N 555350
E 1388400

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CROSSROADS VENTURE, LLC.
C/O J. PAUL PRICE
101 CONSTITUTION AVENUE, NW, SUITE 600E
WASHINGTON, DC 20001

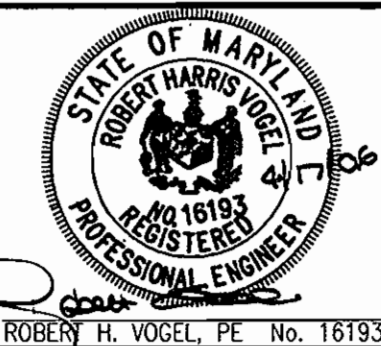
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

M. Kelly R. Rao 4/19/06
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 5/2/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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**FINAL WATER PLAN
PLAN VIEW**

600' SCALE MAP NO. 38
BLOCK NO. 19

**PATAPSCO VALLEY BUSINESS CENTER
CONTRACT NO. 14-4343-D**

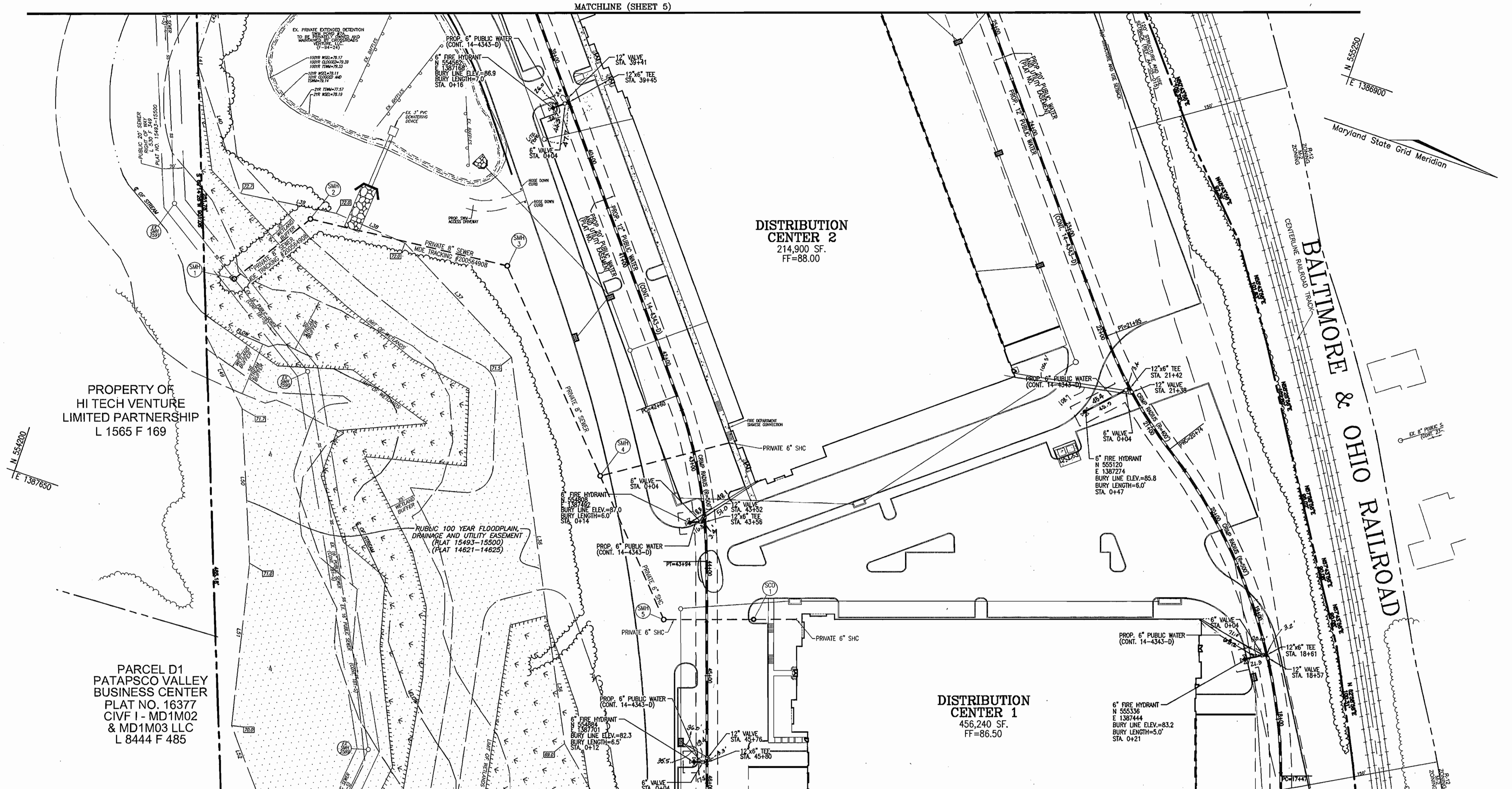
TAX MAP 38 BLOCK 19
1ST ELECTION DISTRICT

PARCEL 1
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 7

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MATCHLINE (SHEET 5)



PLAN VIEW
SCALE: 1"=50'

MATCHLINE (SHEET 3)

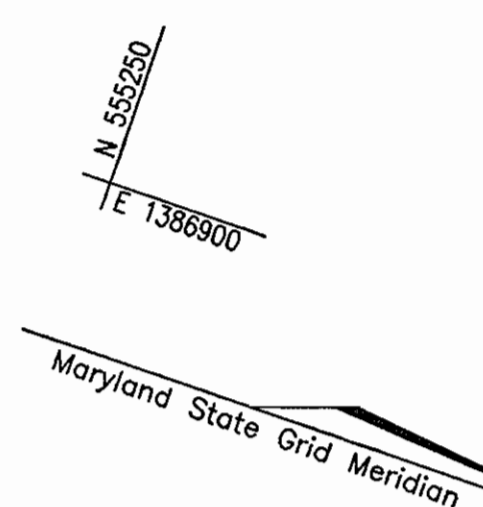
PROPERTY OF
HI TECH VENTURE
LIMITED PARTNERSHIP
L 1565 F 169

PARCEL D1
PATAPSCO VALLEY
BUSINESS CENTER
PLAT NO. 16377
CIVF 1 - MD1M02
& MD1M03 LLC
L 8444 F 485

DISTRIBUTION
CENTER 2
214,900 SF.
FF=88.00

DISTRIBUTION
CENTER 1
456,240 SF.
FF=86.50

BALTIMORE & OHIO RAILROAD

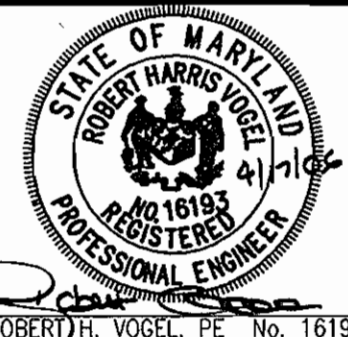


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C/O J. PAUL PRICE
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WASHINGTON, DC 20001

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HOWARD COUNTY, MARYLAND

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FINAL WATER PLAN
PLAN VIEW

PATAPSCO VALLEY BUSINESS CENTER
CONTRACT NO. 14-4343-D

TAX MAP 38 BLOCK 19
1ST ELECTION DISTRICT

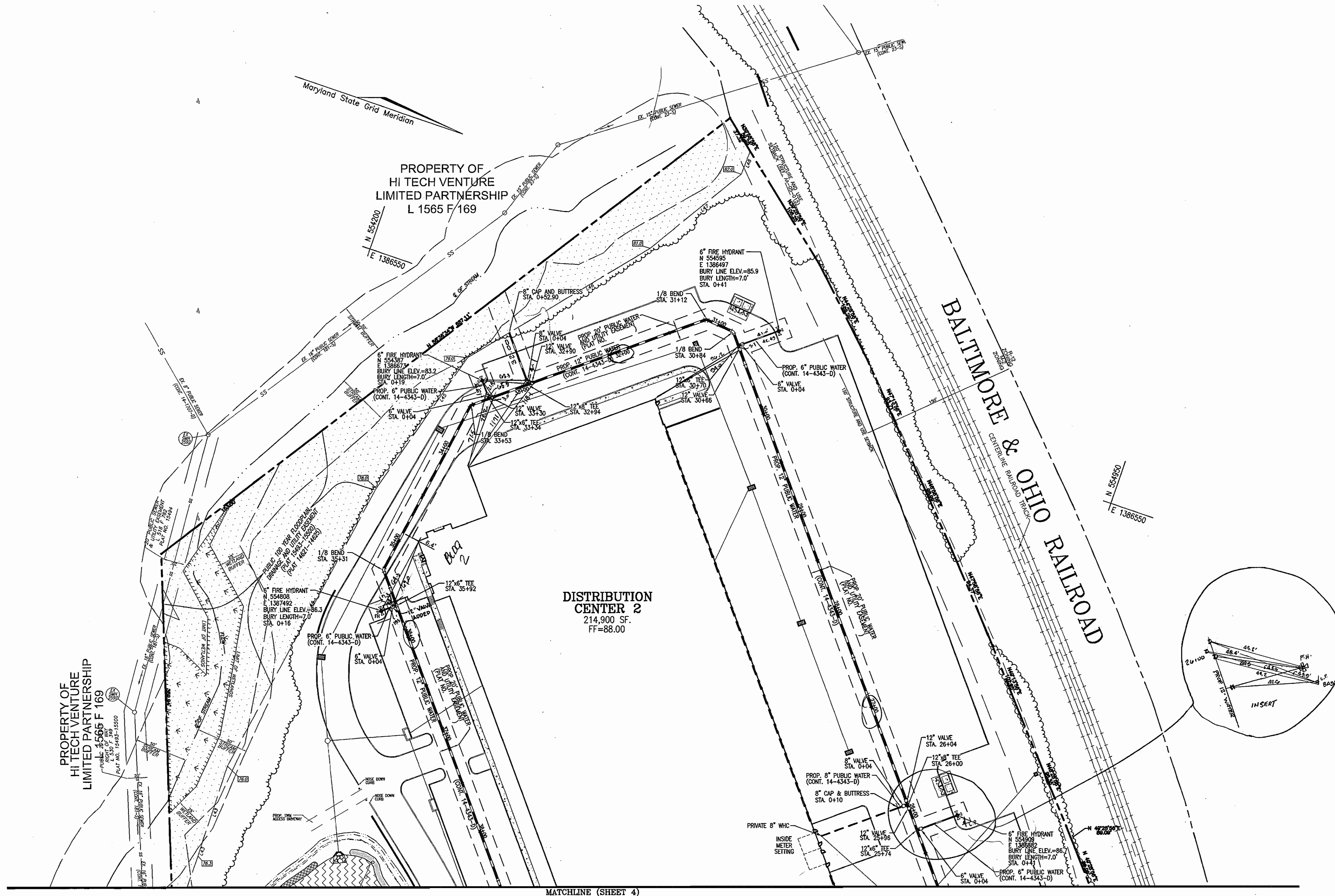
PARCEL 'Y'
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
4 OF 7

60' SCALE MAP NO. - 38

BLOCK NO. 19



PLAN VIEW
SCALE: 1"=50'

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C/O J. PAUL PRICE
101 CONSTITUTION AVENUE, NW, SUITE 600E
WASHINGTON, DC 20001

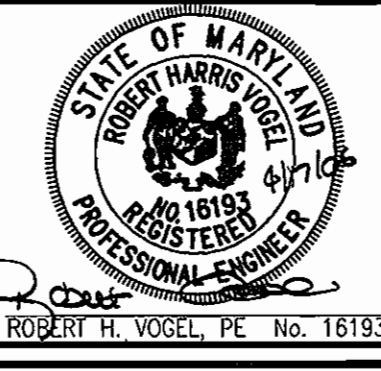
DEPARTMENT OF PUBLIC WORKS
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[Signature]
BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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FINAL WATER PLAN
PLAN VIEW

600' SCALE MAP NO. 38 BLOCK NO. 19

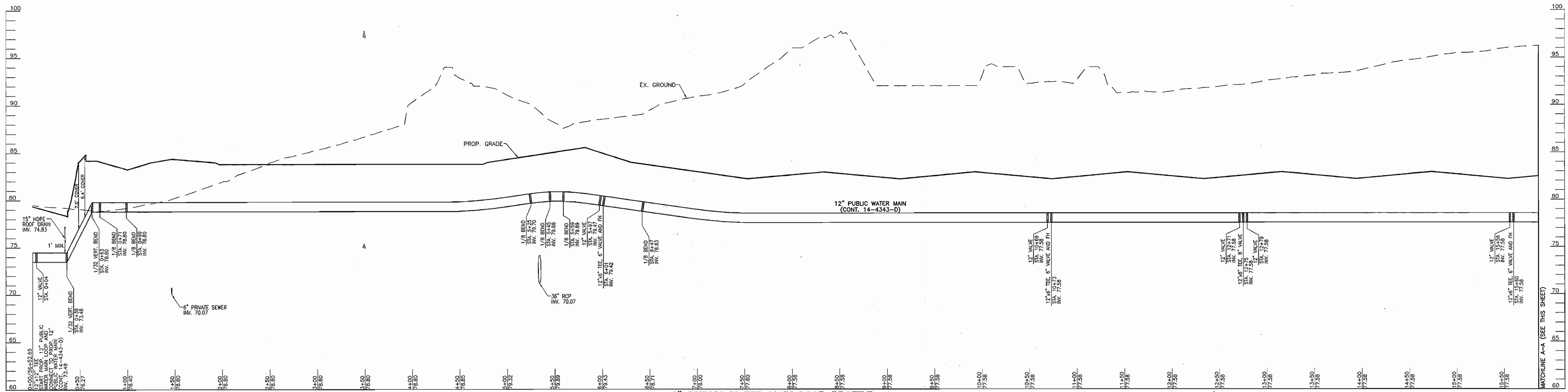
PATAPSCO VALLEY BUSINESS CENTER
CONTRACT NO. 14-4343-D

TAX MAP 38 BLOCK 19
1ST ELECTION DISTRICT

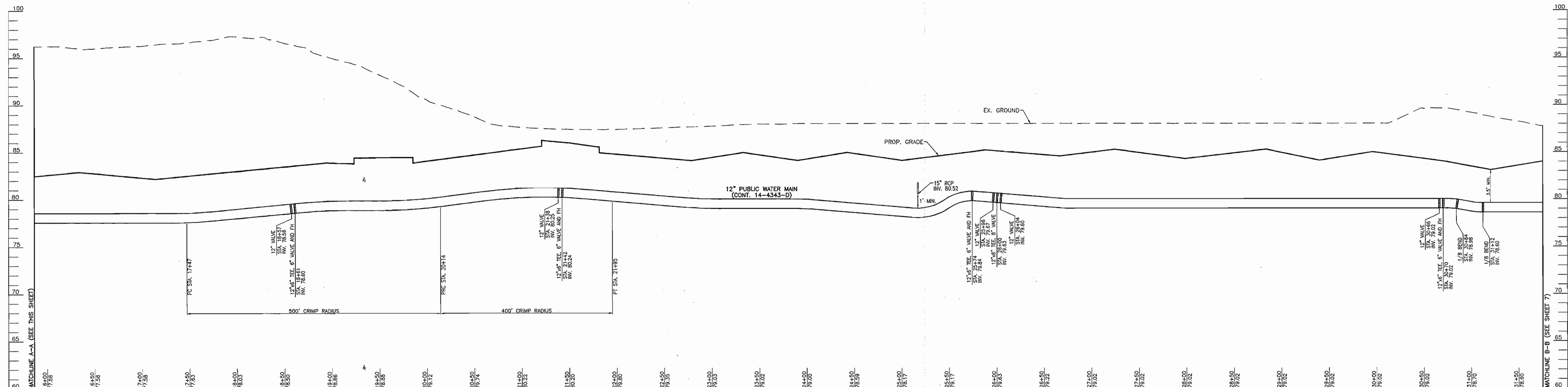
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 7

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12" PUBLIC WATER MAIN LOOP PROFILE
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



12" PUBLIC WATER MAIN LOOP PROFILE
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'

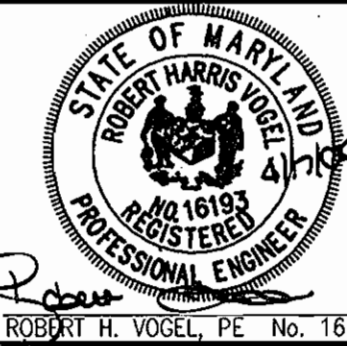
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DEVELOPER
 CROSSROADS VENTURE, LLC.
 C/O J. PAUL PRICE
 101 CONSTITUTION AVENUE, NW, SUITE 600E
 WASHINGTON, DC 20001

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 HOWARD COUNTY, MARYLAND
 BUREAU OF UTILITIES
 DATE: 4/19/06

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/2/06

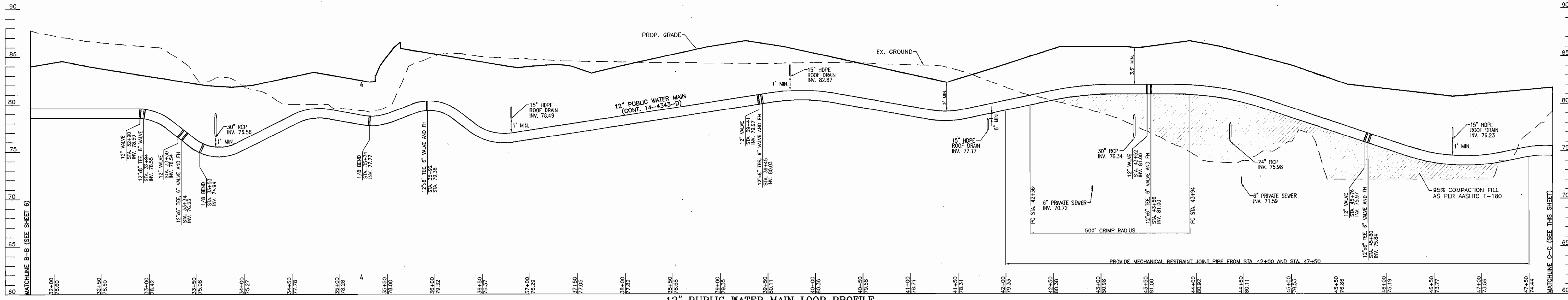
ROBERT H. VOGEL ENGINEERING, INC.
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 ELLICOTT CITY, MD 21043
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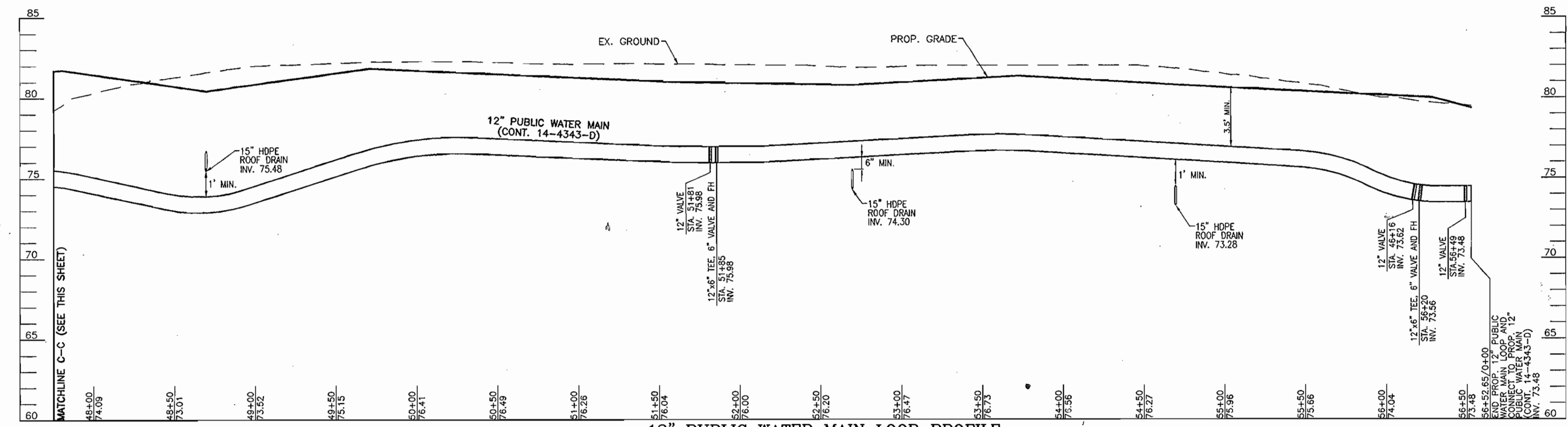
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| DATE: | APRIL 2006 | BY: | KCI | NO. | 1 |
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FINAL WATER PLAN PROFILES
 60" SCALE MAP NO. 38
 BLOCK NO. 19

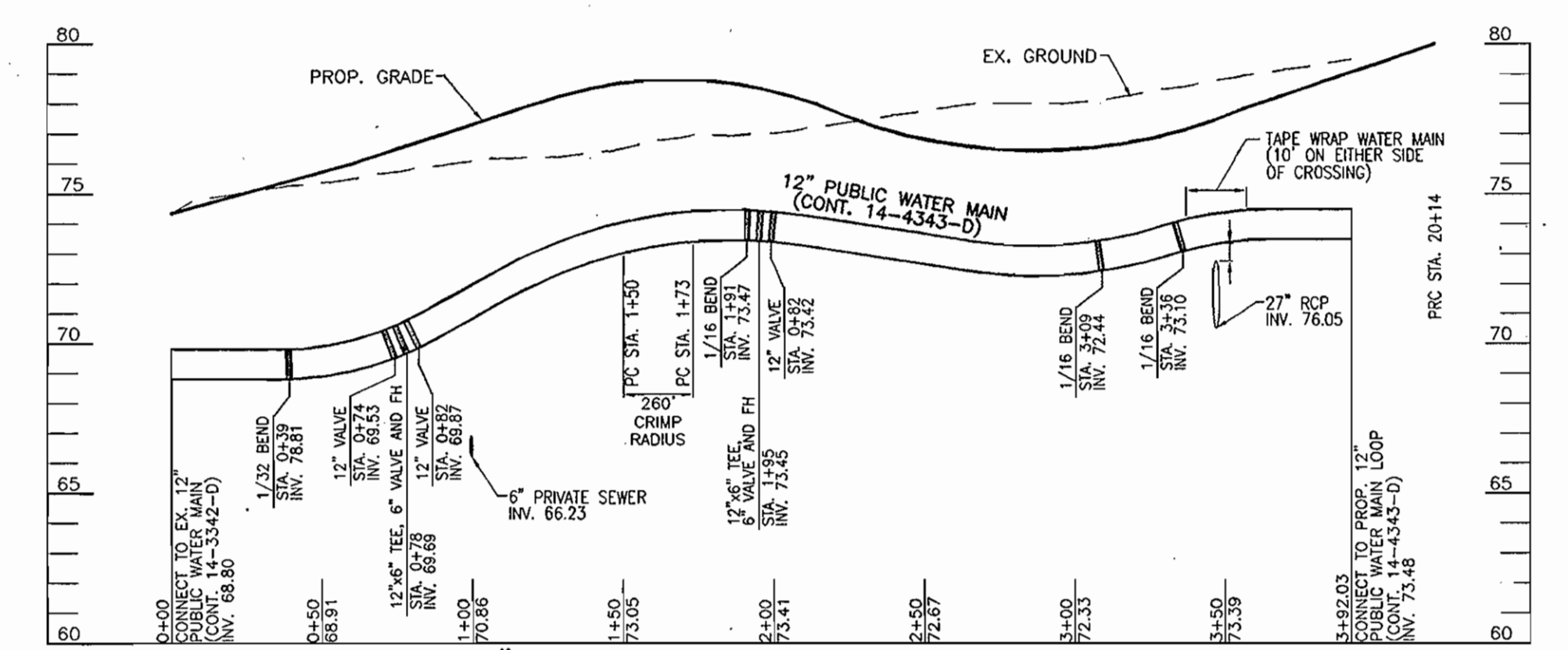
PATAPSCO VALLEY BUSINESS CENTER
 CONTRACT NO. 14-4343-D
 TAX MAP 38 BLOCK 19
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 11
 SHEET 6 OF 7



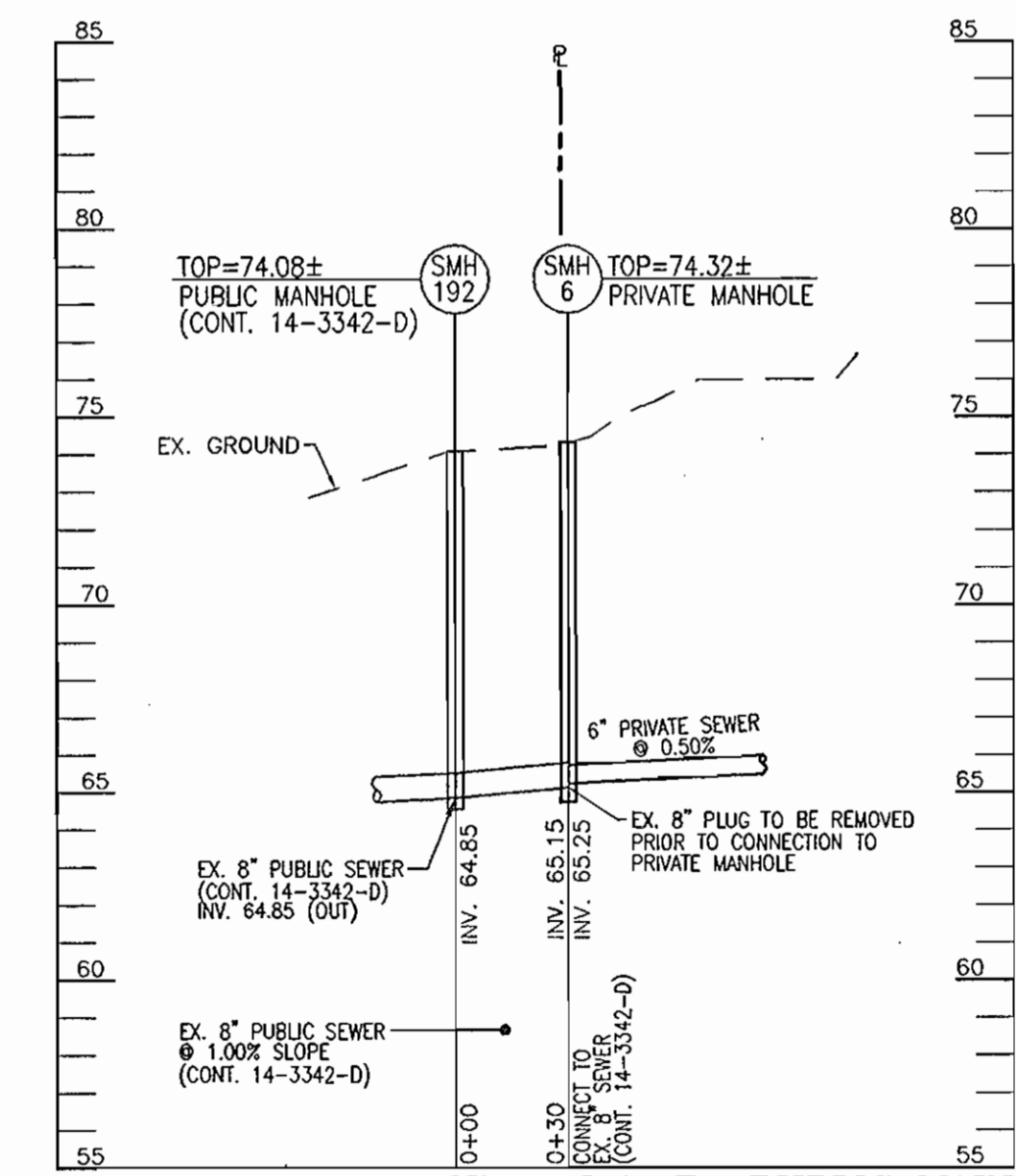
12" PUBLIC WATER MAIN LOOP PROFILE
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



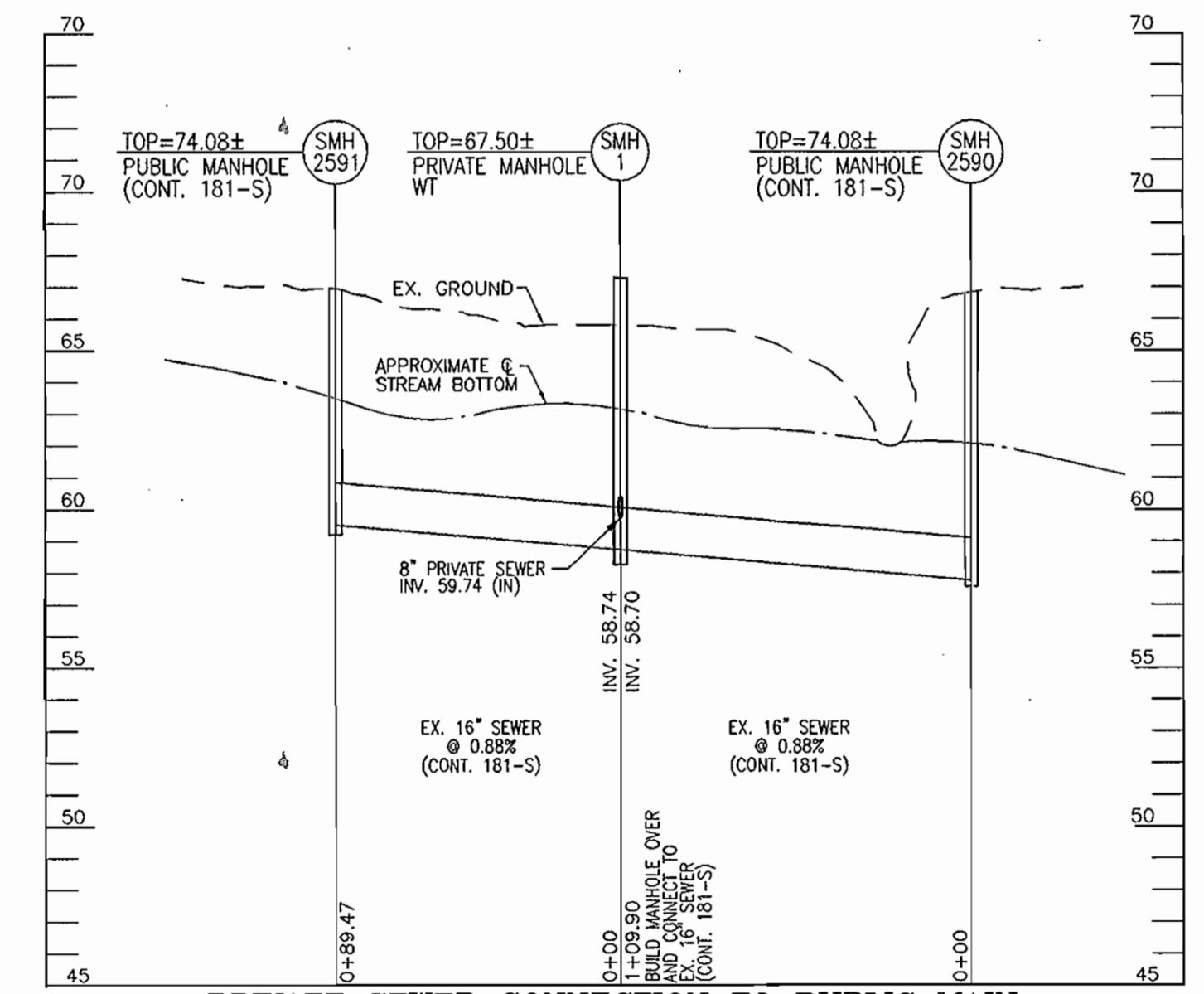
12" PUBLIC WATER MAIN LOOP PROFILE
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



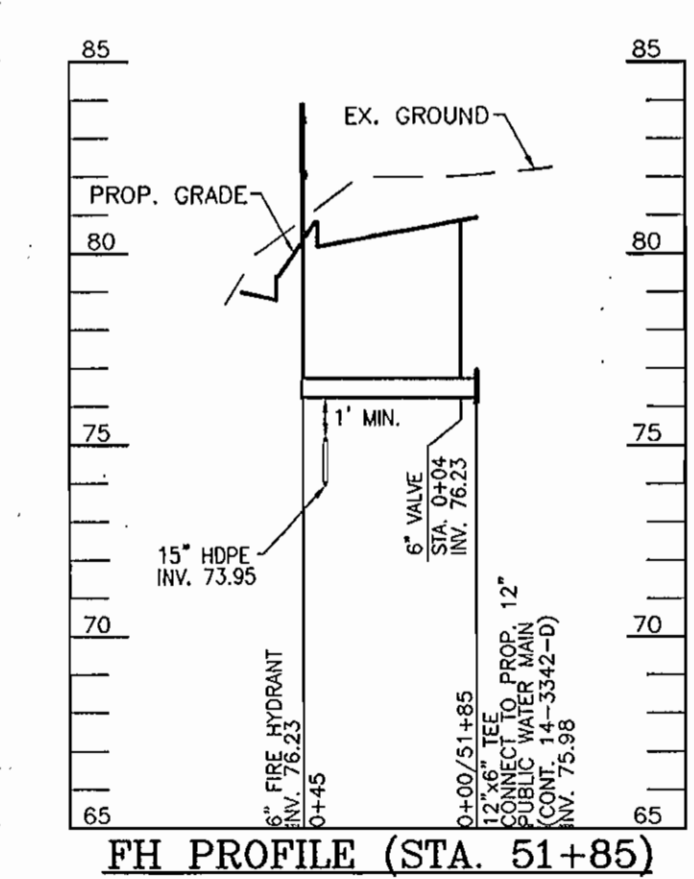
12" PUBLIC WATER CONNECTION PROFILE
 (SEE SHEET 2 FOR PLAN VIEW)
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



PRIVATE SEWER CONNECTION TO PUBLIC MAIN
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



PRIVATE SEWER CONNECTION TO PUBLIC MAIN
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'



FH PROFILE (STA. 51+85)
 SCALE: HORIZONTAL - 1"=50'
 VERTICAL - 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 4/19/06
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 5/2/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

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| DES: | DZ | | | | |
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| CHK: | RHV | | | | |
| DATE: | APRIL 2006 | KCI | 1 | ASBUILT DATA | 4/20/07 |
| | | BY | NO. | REVISION | DATE |

FINAL WATER PLAN PROFILES
 600' SCALE MAP NO. 38
 BLOCK NO. 19

PATAPSCO VALLEY BUSINESS CENTER
 CONTRACT NO. 14-4343-D
 TAX MAP 38 BLOCK 19
 1ST ELECTION DISTRICT
 PARCEL 1
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 7 OF 7

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