### Contract No. 34-3903-D

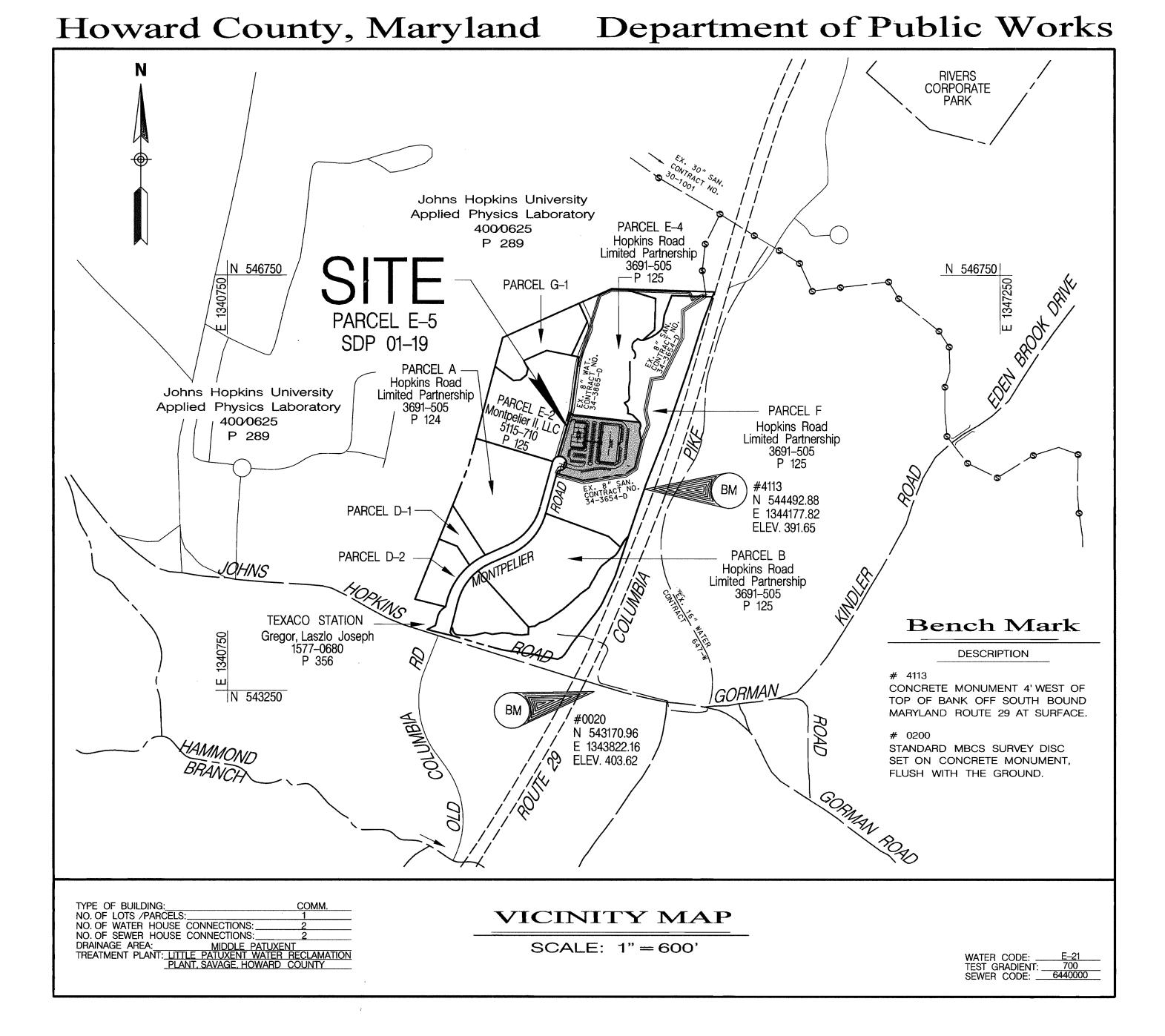
# Montpelier Research Park

## PROPOSED OFFICES FOR THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY Parcel E-5

#### PUBLIC WATER AND SEWER CONSTRUCTION PLANS

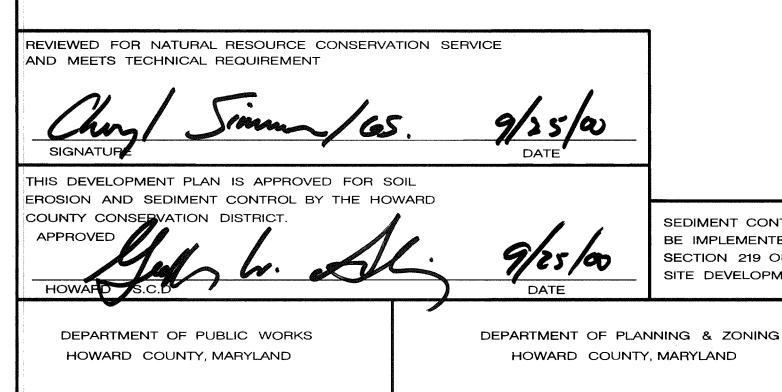
-		QUAI	NTITIES	
				AS-BUILT
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER /SUPPLIER
6" D.I.P. WATER MAIN	24 LF			
8" D.I.P. WATER MAIN	630 LF			
6" VALVE & ROADWAY BOX	2			
B" VALVE & ROADWAY BOX	3			
8" X 6" TEE	2			
8" X 8" TEE	1			
6" FIRE HYDRANT	2			
1/8 HORZ. BEND	6			
8" CAP	2			
6" C.I.P. SEWER	12.5 LF			
6" C.I.P. SADDLE CONN.	1			

	N. Mariana Cara and C							
	SHEET INDEX							
NO.	SHEET TITLE							
1	COVER SHEET							
2	WATER AND SEWER PLAN							
3	WATER AND SEWER PROFILES							



#### 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.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- 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 CORRDINATE 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE
- REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  STATE HIGHWAY ADMINISTRATION - (410) 531-5533
  BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4620
  BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL - (410) 291-4607
  - MISS UTILITY 1-800 257-7777 COLONIAL PIPELINE CO. - (410) 549-4120 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 313-4900
- ALL FILL AREAS WITHIN FUTURE ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION AS DETERMINED BY AASHTO T-180.
- 10. 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.
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND
- 12. 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 THE HOWARD COUNTY CODE.
- 13. MANHOLES MUST BE PRECAST CONCRETE STRUCTURES.
- 14. ALL SEWER MAINS SHALL BE D.I.P. AND P.V.C. UNLESS OTHERWISE NOTED.
- 15. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 16. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 17. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 18. ALL FITTINGS \$HALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 19. 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 1003 OF THE STANDARD SPECIFICATIONS.
- 20. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER
- 21. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 22. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-153
  DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
  ALL EXISTING VALVES TO BE CLOSED WHEN CONNECTION TO THE SYSTEM IS MADE.
- 23. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.



SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP 01-19.

CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

Matis Warfield consulting engineers 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



DESIGNED E DRAWN BY: A.C.S. HECKED B DATE: NO. REVISION 8/8/00

**COVER SHEET** 

600 SCALE MAP NO. 41 BLOCK NO. 17

Montpelier Research Park PARCEL E-5 PROPOSED OFFICES FOR

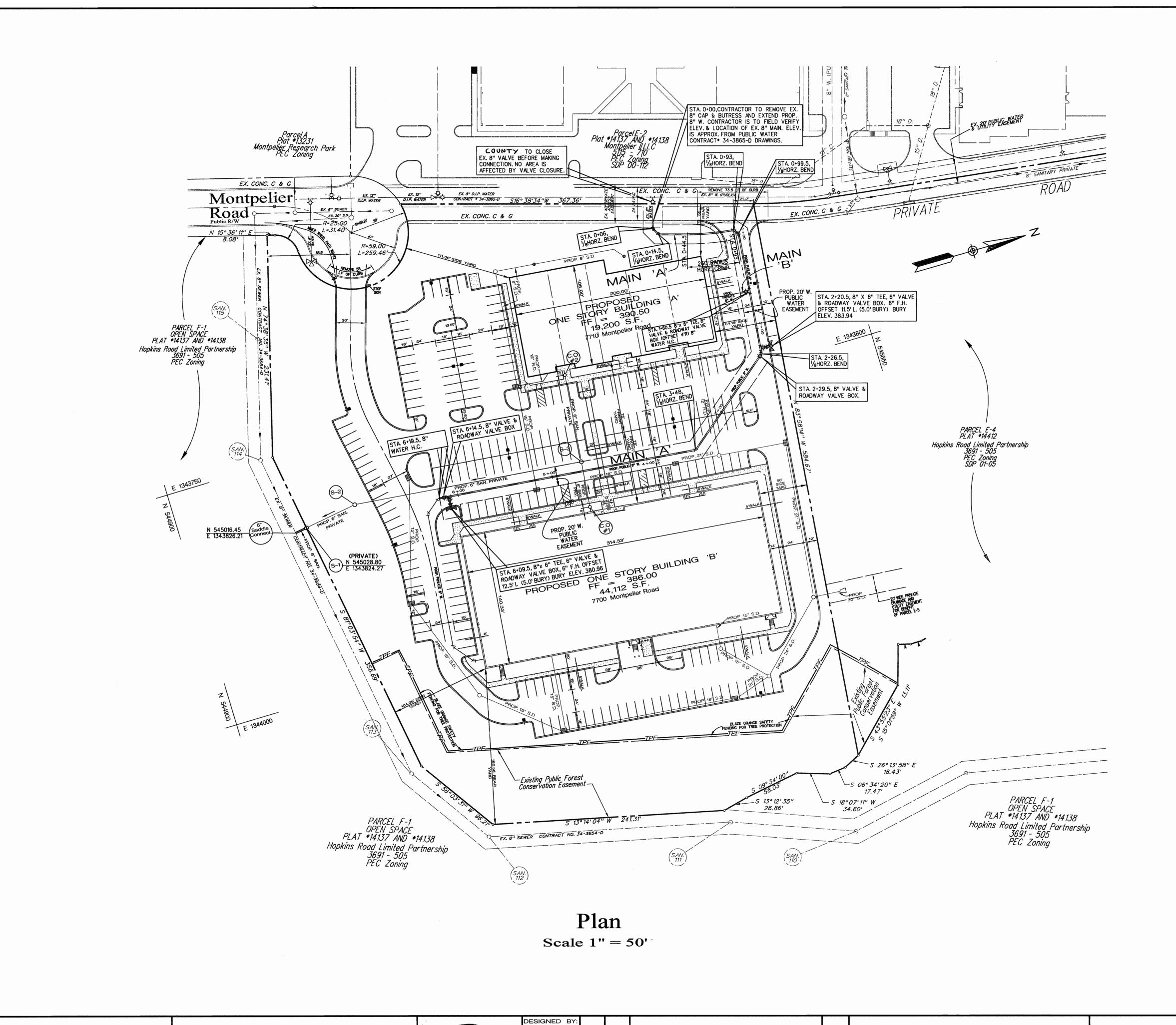
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY Parcel E5 - Montpelier Research Park, 5th Election District, Howard County Maryland Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive Columbia, Maryland 21046

CONTRACT NO. \_\_\_\_\_ 34–3903–D

SHEET OF 3

AS SHÓWN

CHIEF - BUREAU OF UTILITIES - DATE



SEE SDP 01-19

SCALE

1" = 50'

SHEET

2 OF 3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF DEVELOPMENT ENGINEERING DIVISION - DATE

consulting engineers

10540 york road suite m
hunt valley, maryland 21030
phone 410-683-7004
facsimile 410-683-1798
www.matiswarfield.com



	R.L.N.					
	DRAWN BY: A.C.S.					MATED AN
•	CHECKED BY: J.E.M.					WATER AN
	DATE:					
	8/8/00	BY	NO.	REVISION	DATE	600 SCALE MAP NO.

WATER AND SEWER PLAN

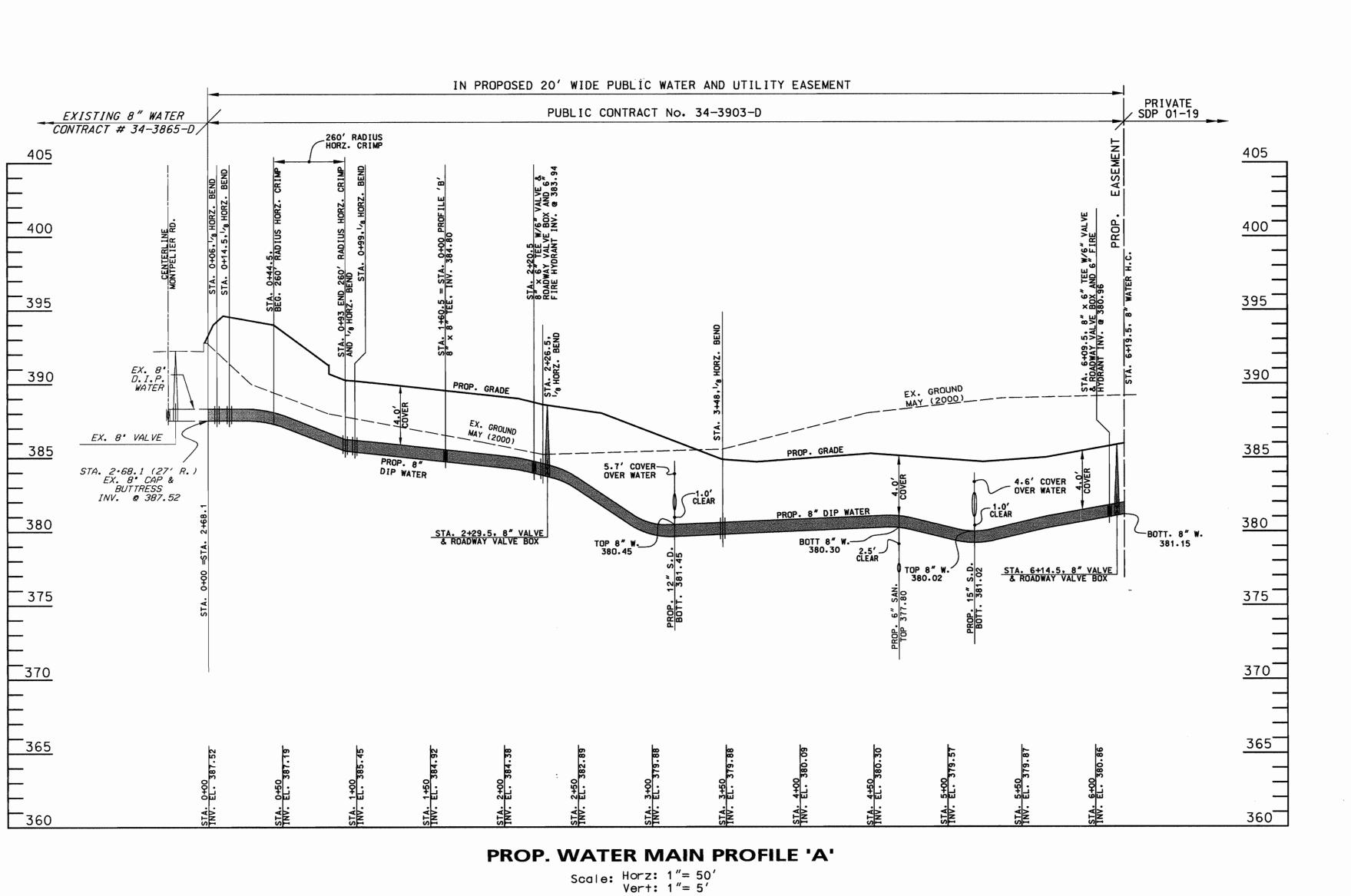
BLOCK NO. 17

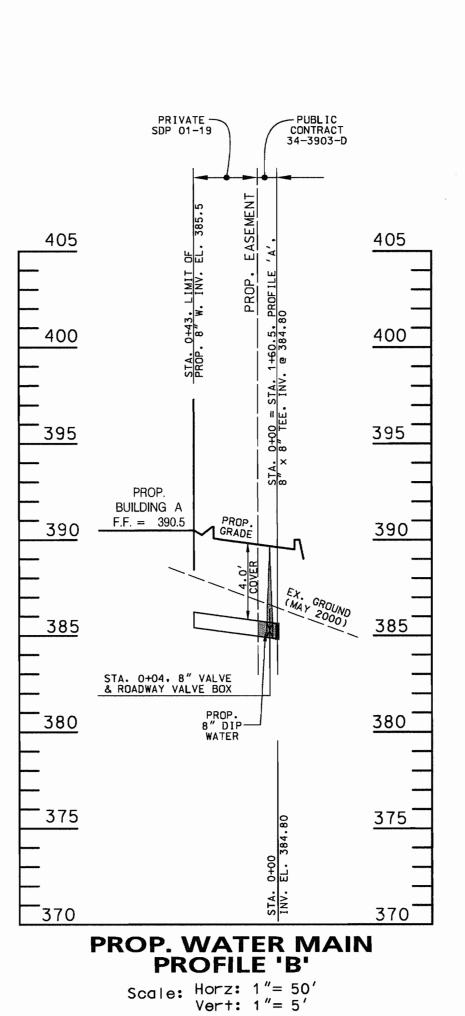
Montpelier Research Park
PARCEL E-5 PROPOSED OFFICES FOR
THE JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY

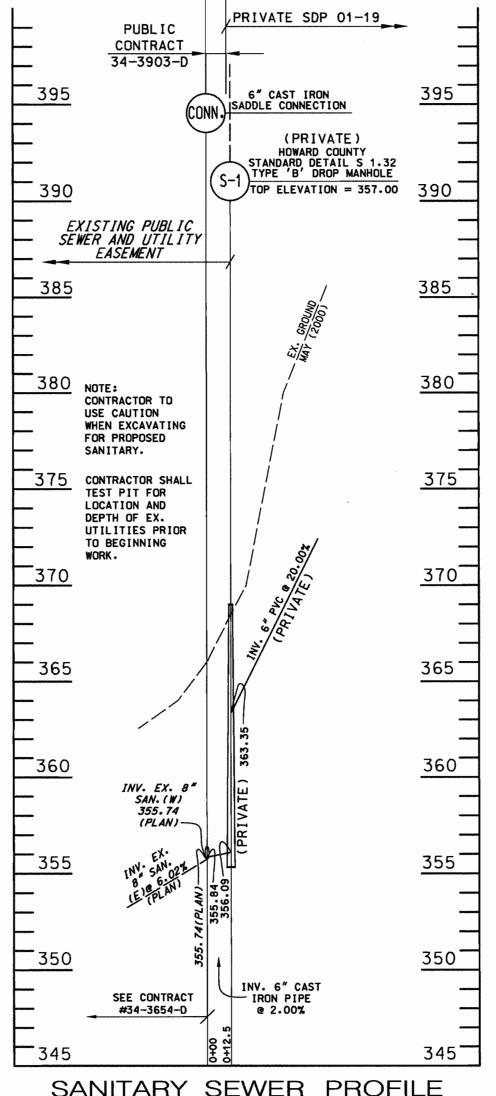
Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive Columbia, Maryland 21046

CONTRACT NO. 34–3903–D

CHIEF - BUREAU OF UTILITIES - DATE







SANITARY SEWER PROFILE Scale: Horz: 1"=50' Vert: 1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE

FILENAME: 2000-023w-cov.dgn

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

Matis Warfield consulting engineers 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



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	DESIGNED BY: R.L.N.					
	DRAWN BY: A.C.S.					WATER AND SEWER PROFILE
,	CHECKED BY:					WITTER IND SEWERTROTIES.
	DATE:					
	8/8/00	BY	NO.	REVISION	DATE	600 SCALE MAP NO. 41 BLOCK NO. 17

Montpelier Research Park PARCEL E-5 PROPOSED OFFICES FOR THE JOHNS HOPKINS UNIVERSITY

APPLIED PHYSICS LABORATORY Parcel E5 - Montpelier Research Park, 5th Election District, Howard County Maryland Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive Columbia, Maryland 21046 CONTRACT NO. 34–3903–D

SHEET 3 OF 3

SCALE

AS SHOWN

### Contract No. 34-3903-D

# Montpelier Research Park

## PROPOSED OFFICES FOR THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY Parcel E-5

#### PUBLIC WATER AND SEWER CONSTRUCTION PLANS

QUANTITIES						
AS-BUILT						
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER /SUPPLIER		
6" D.I.P. WATER MAIN	24 LF	17.5	CL 52	AJLANTIC STATES U.S. FILTER		
8" D.I.P. WATER MAIN	630 LF	611	C 6 5 2	ATLANTIC STATES/US FILTER		
6" VALVE & ROADWAY BOX	2	2	CI-SCREW	BILICHAM & TAYLOR U.S.FILTER		
8" VALVE & ROADWAY BOX	3	3	C1-SOREW	BILICHAM & TAYLOR JU.S. FILTER		
8" X 6" TEE	2	2		UNION FOUNDRY U.S. FILTER		
8" X 8" TEE	1	1		UNION FOUNDRY U.S. FILTER		
6" FIRE HYDRANT	2	Z	A423 CENTURION	MUELLER CO./U.S. FILTER		
1/8 HORZ. BEND	6	6		UNION FOUNDRY/U.S. FILTER		
8" CAP	2	2		UNION FOUNDRY/U.S. FILTER		
6" C.I.P. SEWER	12.5 LF	12.5FT.	SH SVC WT	CHARCOTT & PIPE/U.S. FILTER		
6" C.I.P. SADDLE CONN.	1	1	C-1	GENERAL ENG. / U.S. FICTER		

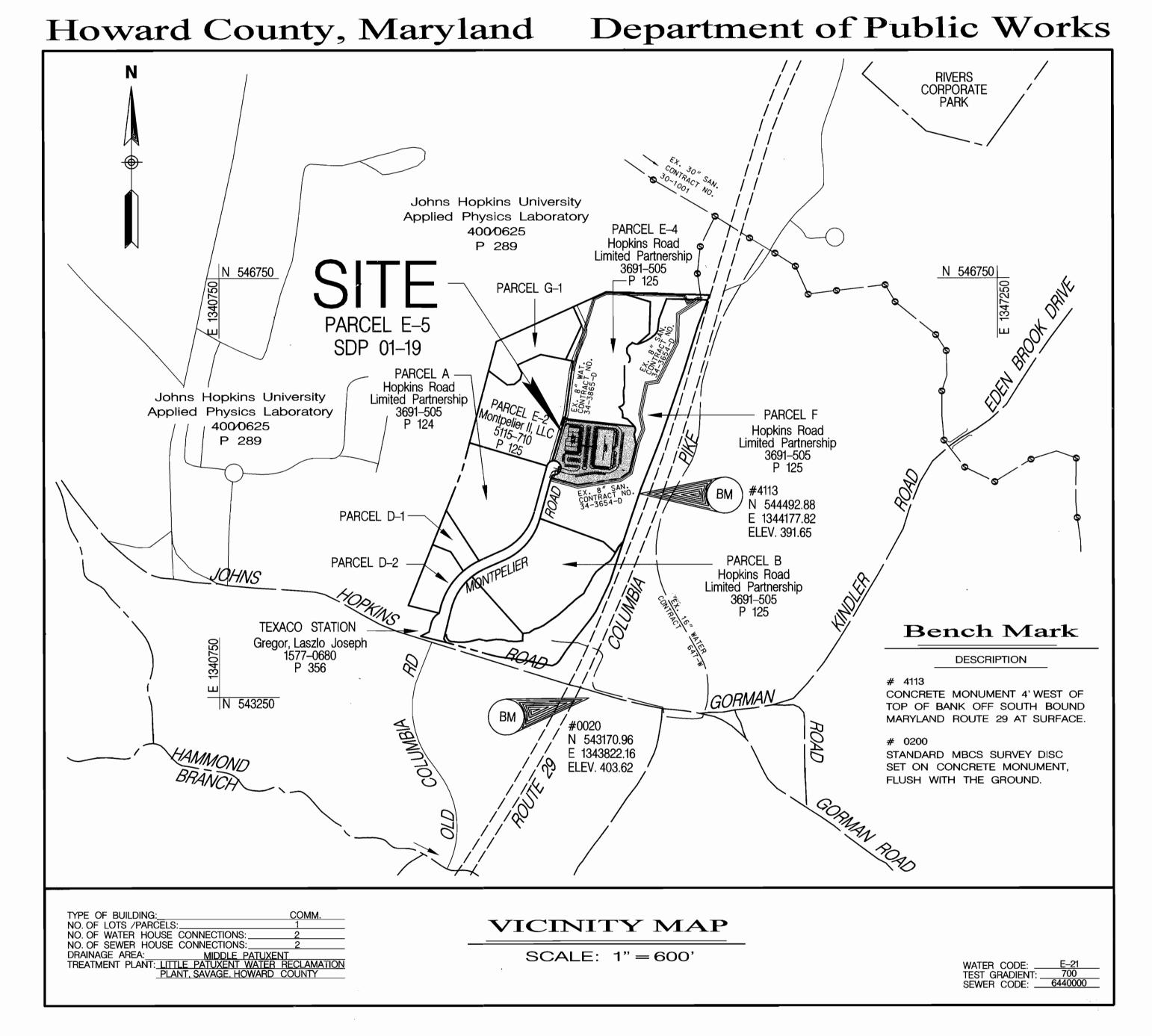
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

G" VALVE B' VALVE

RES WEOGE MUELLER CO. LI.S. FILTER RES WEDGE CATE MUELLER CO./U.S. FILTER

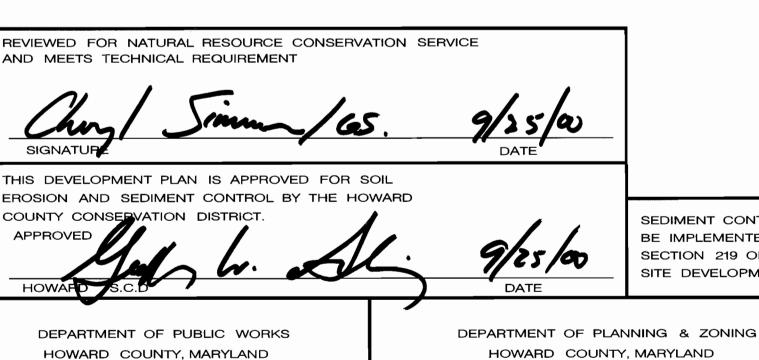
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

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  BUREAU OF UTILITIES, HOWERD COUNTY DEPARTMENT OF PUBLIC WORKS (410) 313–4900
  BELL ATIANTIC 1–800–446–5266
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SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP 01-19.

> Matis Warfield consulting engineers 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798



DESIGNED BY:				
R.L.N.				
DRAWN BY:				
A.C.S.			-	
CHECKED BY:				
J.E.M.				
DATE:	KCI	1	ASBUILT CONDITIONS ADDED TO PLAN	5/7/
8/8/00	BY	NO.	REVISION	DAT

**COVER SHEET** 

600 SCALE MAP NO. 41 BLOCK NO. 17

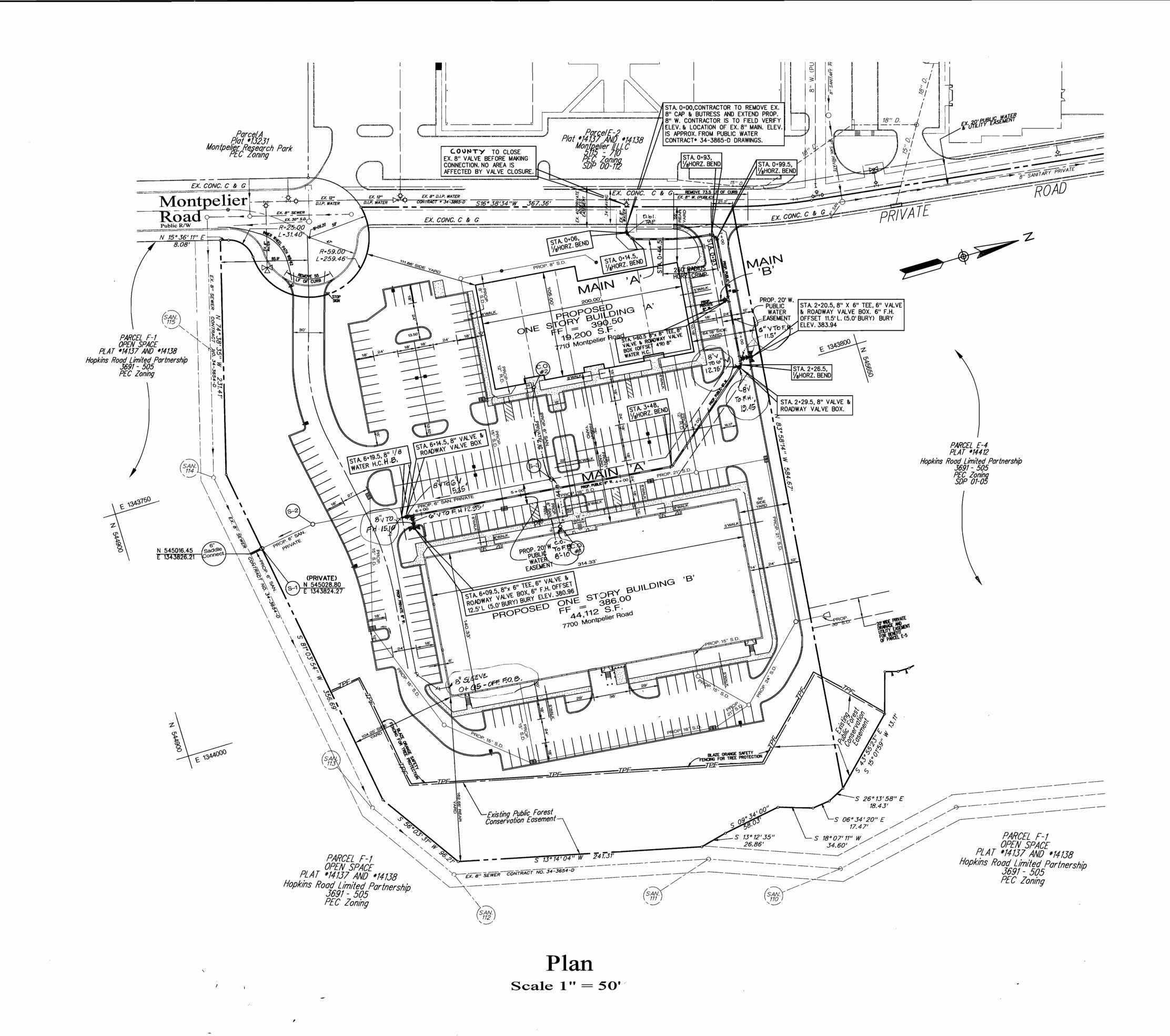
Montpelier Research Park PARCEL E-5 PROPOSED OFFICES FOR THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

Parcel E5 - Montpelier Research Park, 5th Election District, Howard County Maryland

Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive Columbia, Maryland 21046 CONTRACT NO. 34–3903–D

AS SHOWN

SHEET 1 OF 3



SEE SDP 01-19

SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

HAM Y/W/S

CHIEF DEVELOPMENT ENGINEERING DIVISION - DATE

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Matis Warfield
consulting engineers

10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com



	DESIGNED BY:				
	R.L.N.				
	DRAWN BY:				•
	A.C.S.			-	
	CHECKED BY:				
'	J.E.M.				
	DATE:	KCI	1	ASBUILT COMPITIONS ADDED TOPLAN	5/7/0
	8/8/00	BY	NO.	REVISION	DATE
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	WATER A	ND SE	EWER PLAN
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ΤE	600 SCALE MAP NO.	41	BLOCK NO. 17

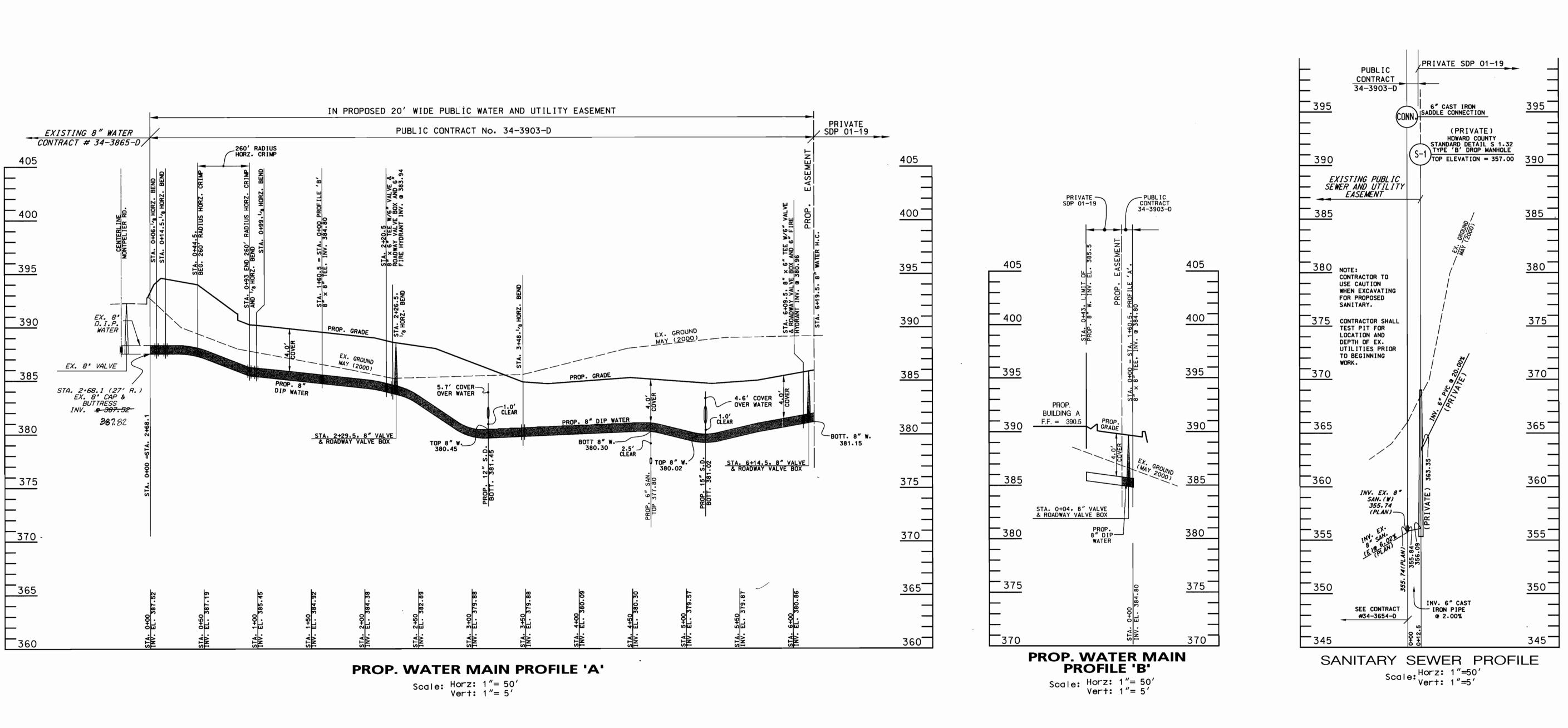
Montpelier Research Park
PARCEL E-5 PROPOSED OFFICES FOR
THE JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY

APPLIED PHYSICS LABORATORY

Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive
Columbia, Maryland 21046

CONTRACT NO. 34–3903–D

CHIEF - BUREAU OF UTILITIES - DATE



DRAWN BY: A.C.S. CHECKED BY J.E.M. KCI DATE: 8/8/00

ASBUILT CONDITIONS ADDED TO PLAN

600 SCALE MAP NO. 41

BLOCK NO. 17

DATE

REVISION

Montpelier Research Park WATER AND SEWER PROFILES PARCEL E-5 PROPOSED OFFICES FOR THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

Parcel E5 - Montpelier Research Park, 5th Election District, Howard County Maryland Owner/Developer MOR MONTPELIER, LLC c/o Manekin. Corp. 7061 Columbia Gateway Drive Columbia, Maryland 21046 CONTRACT NO. 34–3903–D

SCALE

AS SHOWN

SHEET

3 OF 3

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE FILENAME: 2000-023w-cov.dgn

CHEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

Matis Warfield consulting engineers 10540 york road suite m hunt valley, maryland 21030 phone 410-683-7004 facsimile 410-683-1798 www.matiswarfield.com