

# WATER AND SEWER EXTENSIONS

## PROLOGIS PARK

### PARCEL A-14

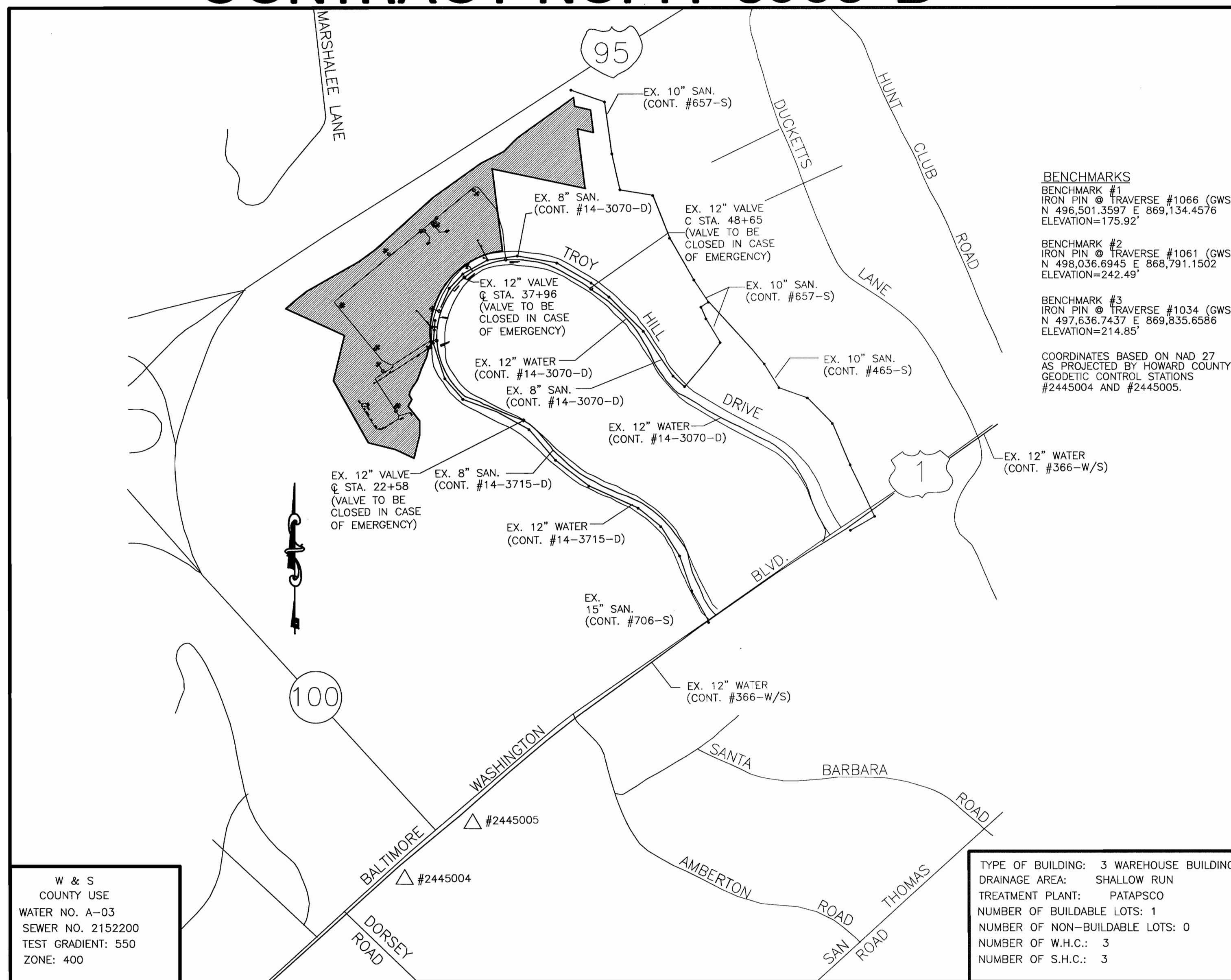
# 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3908-D

SHEET INDEX	
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2	WATER AND SEWER PLAN
3	WATER AND SEWER PLAN
4	WATER PROFILES
5	WATER & 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.
- 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 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 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 THE HOWARD COUNTY CODE.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARDS 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 NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR TEST 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 (5) 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	410-787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	410-795-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	410-313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO 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.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5' OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO THE 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 RESTRAINED 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 ORDANCE WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- THE FIRE HYDRANTS SHALL BE INSTALLED AS PER STANDARD DETAIL W.1.11.
- FIRE HYDRANTS WILL BE LOCATED 3' FROM THE BACK OF CURB UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P ONLY.
- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- REPAIR OF UTILITY TRENCH WITHIN THE COUNTY ROAD TO BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL G 4.01.
- RETURN EXISTING FIRE HYDRANTS THAT WERE REMOVED TO HOWARD COUNTY, BUREAU OF UTILITIES.
- FILL UNDER PROPOSED WATER AND SEWER SHALL BE 95% COMPACTION.
- ABANDON UN-USED WATER CONNECTIONS.



**BENCHMARKS**  
 BENCHMARK #1  
 IRON PIN @ TRAVERSE #1066 (GWS)  
 N 496,501.3597 E 869,134.4576  
 ELEVATION=175.92'  
 BENCHMARK #2  
 IRON PIN @ TRAVERSE #1061 (GWS)  
 N 498,036.6945 E 868,791.1502  
 ELEVATION=242.49'  
 BENCHMARK #3  
 IRON PIN @ TRAVERSE #1034 (GWS)  
 N 497,636.7437 E 869,835.6586  
 ELEVATION=214.85'  
 COORDINATES BASED ON NAD 27  
 AS PROJECTED BY HOWARD COUNTY  
 GEODETIC CONTROL STATIONS  
 #2445004 AND #2445005.

TYPE OF BUILDING: 3 WAREHOUSE BUILDINGS  
 DRAINAGE AREA: SHALLOW RUN  
 TREATMENT PLANT: PATAPSCO  
 NUMBER OF BUILDABLE LOTS: 1  
 NUMBER OF NON-BUILDABLE LOTS: 0  
 NUMBER OF W.H.C.: 3  
 NUMBER OF S.H.C.: 3

VICINITY MAP  
 SCALE: 1"=600'

**OWNER** FAX NO.: 703-751-0787  
 A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292  
 C. COMPANY: ProLogis  
 D. ADDRESS: 5200 Eisenhower Avenue 2nd floor  
 E. CITY: Alexandria STATE: VA. ZIP: 22304  
**APPLICANT** FAX NO.: 703-751-0787  
 A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292  
 C. COMPANY: ProLogis  
 D. ADDRESS: 5200 Eisenhower Avenue 2nd floor  
 E. CITY: Alexandria STATE: VA. ZIP: 22304

PUBLIC WATER & SEWER QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
6" WATER MAIN	349'			
8" WATER MAIN	3,618'			
6" VALVES	9 EA.			
8" VALVES	7 EA.			
8"x6" TEE	9 EA.			
8"x8" TEE	3 EA.			
8" - 11.25' HB	2 EA.			
8" - 22.5' HB	4 EA.			
8" - 45' HB	8 EA.			
6" FIRE HYDRANT	9 EA.			
8" - 11.25' VB	2 EA.			
8"x12" TS & V	2 EA.			
8" SANITARY SEWER	33'			

NAME OF UTILITY CONTRACTOR:

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP

CHECKBOX	
AS-BUILT DATE:	
SURVEY & DRAFTING DIVISION	

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*J.H. Warfield* 10/30/00  
 NATURAL RESOURCES COOPERATION SERVICE DATE

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

*J.M. Robertson* 10/30/00  
 HOWARD SOIL CONSERVATION DISTRICT DATE

FINAL PLAT: 13030, 13044, 13045 & 13046  
 SITE DEVELOPMENT PLAN: SDP-01-10

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
*Robert M. Bainger* 10-27-00  
 CHIEF, BUREAU OF UTILITIES DATE

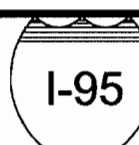
**DEPARTMENT OF PLANNING & ZONING**  
 HOWARD COUNTY, MARYLAND  
*William J. ...* 10/30/00  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MRA**  
 MORRIS & FITCHIE ASSOCIATES, INC.  
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
 9090 JUNCTION DRIVE SUITE 9  
 ANNAPOLIS JUNCTION, MARYLAND 20701  
 (410) 792-6792 or (301) 776-1690  
 FAX (410) 792-7395



DES: TR/CO	CAO	1	REVISED PER HOWARD COUNTY COMMENTS	9/5/00
DRN: CO				
CHK: GLC				
DATE: 08/15/00	BY NO.		REVISIONS	DATE

**TITLE SHEET**  
 600' SCALE MAP NO. 37  
 BLOCK NO. 18

**PROLOGIS PARK **  
**PARCEL A-14**  
**1st ELECTION DISTRICT**  
**HOWARD COUNTY, MARYLAND**  
**CONTRACT #14-3908-D**

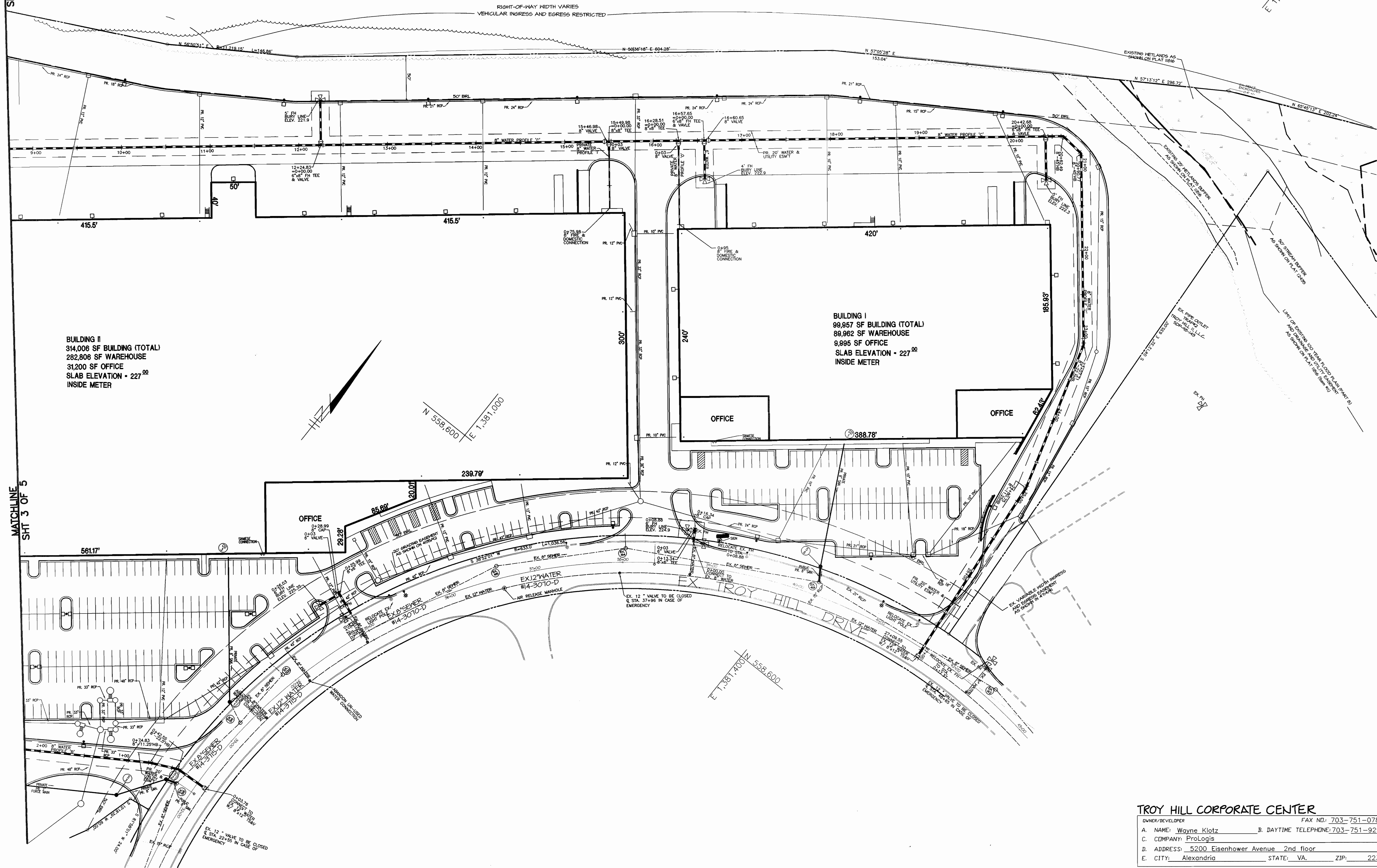
SCALE AS SHOWN

SHEET 1 OF 5



MATCHLINE  
SHT 3 OF 5

N 559.600  
E 1,381.400



**TROY HILL CORPORATE CENTER**  
 OWNER/DEVELOPER: \_\_\_\_\_ FAX NO.: 703-751-0787  
 A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292  
 C. COMPANY: ProLogis  
 D. ADDRESS: 5200 Eisenhower Avenue 2nd floor  
 E. CITY: Alexandria STATE: VA. ZIP: 22304

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND



**MORRIS & FITCH ASSOCIATES, INC.**  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
9090 JUNCTION DRIVE SUITE 9  
ANNAPOLIS JUNCTION, MARYLAND 20701  
(410) 792-8792 or (301) 775-1890  
FAX (410) 782-7395



DES: TN/CO	CAO 1	REVISED PER HOWARD COUNTY COMMENTS	9/5/00
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**PUBLIC WATER AND SEWER PLAN**

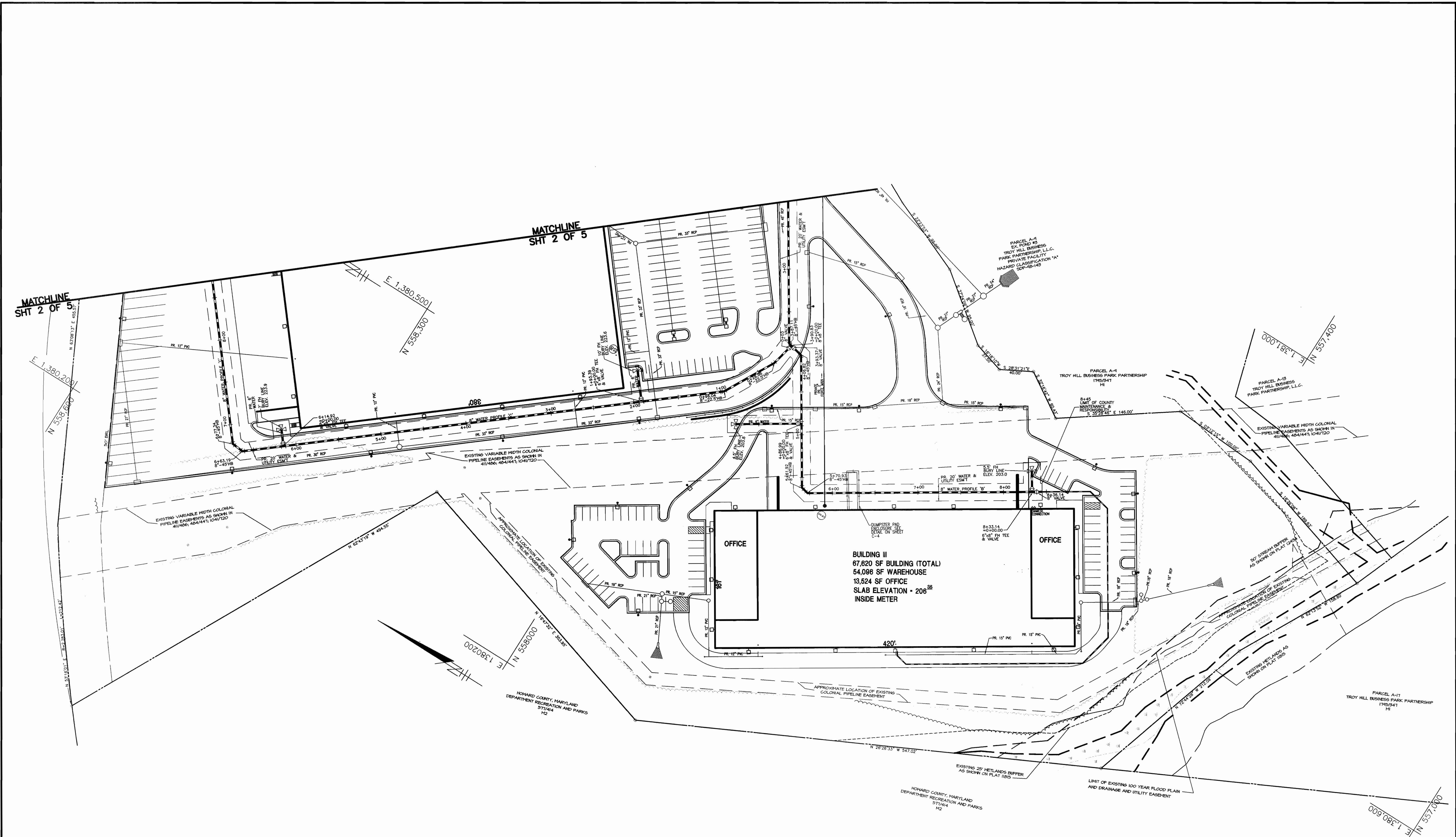
600' SCALE MAP NO. 37 BLOCK NO. 18

PROLOGIS PARK I-95  
PARCEL A-14  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT # 14-3908-D

SCALE  
1"=50'  
SHEET  
2 OF 5

*Robert W. Bourgeois* 10-27-00  
CHIEF, BUREAU OF UTILITIES DATE

*John J. Vanneman* 10-27-00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



**TROY HILL CORPORATE CENTER**  
 OWNER/DEVELOPER: TROY HILL BUSINESS PARK PARTNERSHIP (TRHS41)  
 A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292  
 C. COMPANY: ProLogis  
 D. ADDRESS: 5200 Eisenhower Avenue 2nd floor  
 E. CITY: Alexandria STATE: VA ZIP: 22304

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Robert Beaman 10-27-00  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief, Development Engineering Division 10/30/00  
 DATE

**MRA**  
 MORRIS & RITCHE ASSOCIATES, INC.  
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
 8090 JUNCTION DRIVE SUITE 9  
 ANNAPOLIS JUNCTION, MARYLAND 20701  
 (410) 792-9792 or (301) 778-1890  
 FAX (410) 792-7395

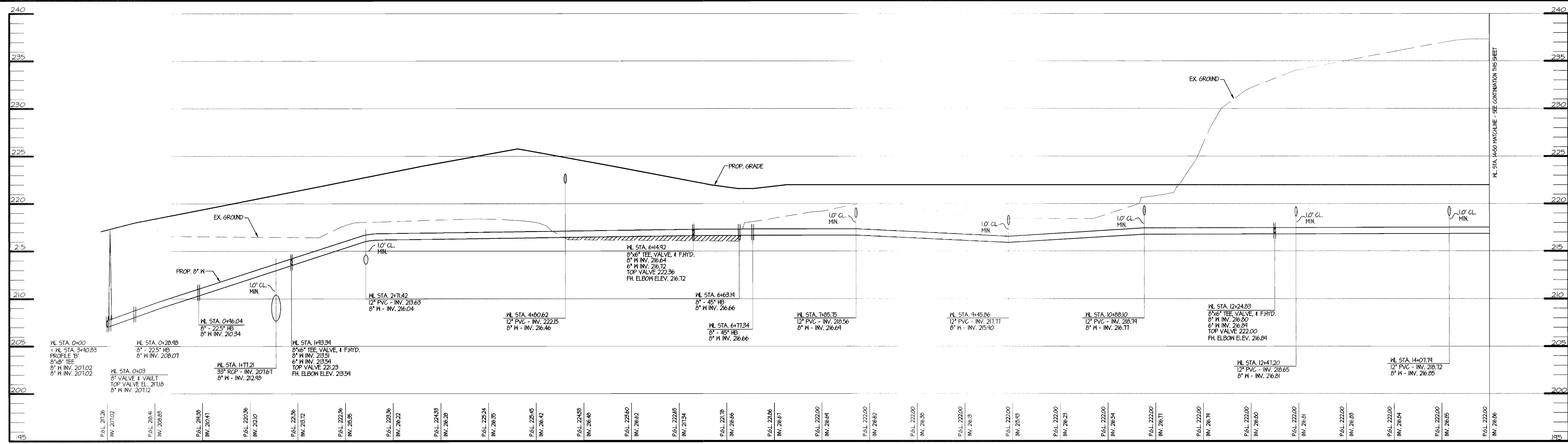


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**PUBLIC WATER AND SEWER PLAN**  
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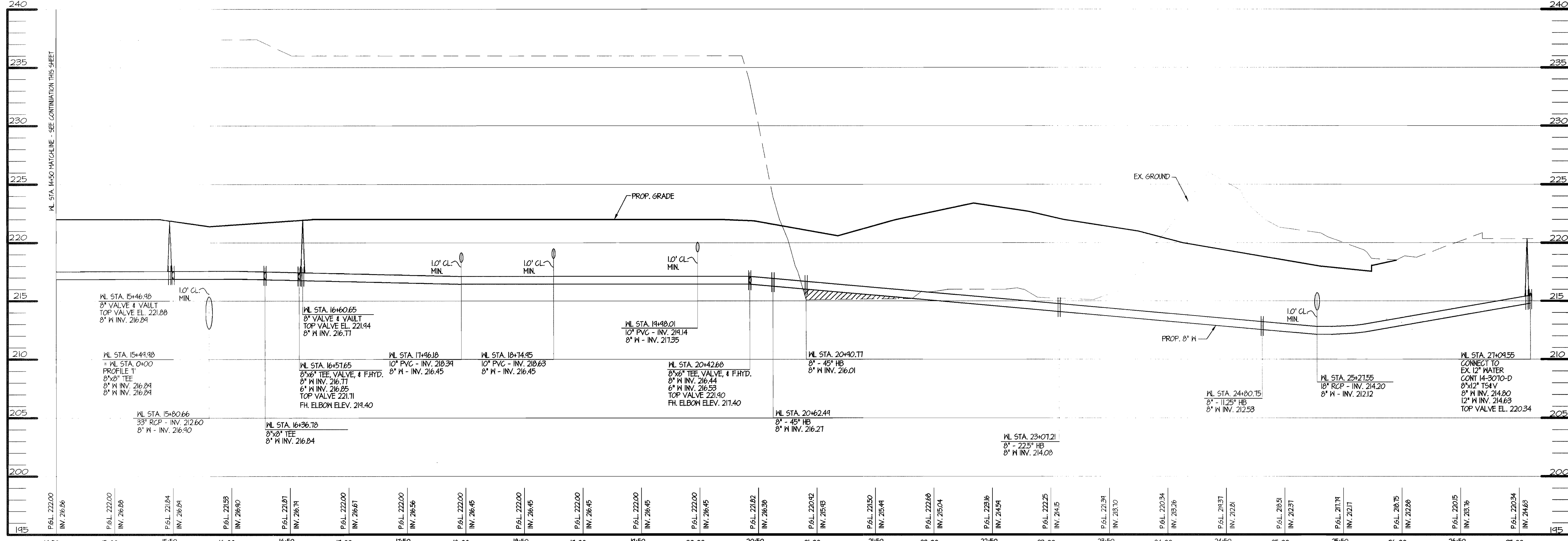
**PROLOGIS PARK I-95**  
 PARCEL A-14  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT # 14-3908-D  
 SCALE 1"=50'  
 SHEET 3 OF 5





**PUBLIC WATER PROFILE 'C'**

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



**PUBLIC WATER PROFILE 'C'**

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

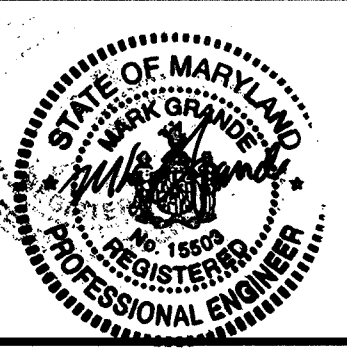
CONTROLLED AND COMPACTED FILL AS DIRECTED BY AN APPROVED SOILS ENGINEER.

TROY HILL CORPORATE CENTER  
OWNER/DEVELOPER: WAYNE KLOTZ  
FAX NO.: 703-751-0787  
A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292  
C. COMPANY: ProLogis  
D. ADDRESS: 5200 Eisenhower Avenue 2nd floor  
E. CITY: Alexandria STATE: VA. ZIP: 22304

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert Beaman 10-27-00  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
10/30/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MRA MORRIS & FITCHE ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
9090 JUNCTION DRIVE SUITE 9  
ANNAPOLIS JUNCTION, MARYLAND 20701  
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FAX (410) 782-7385

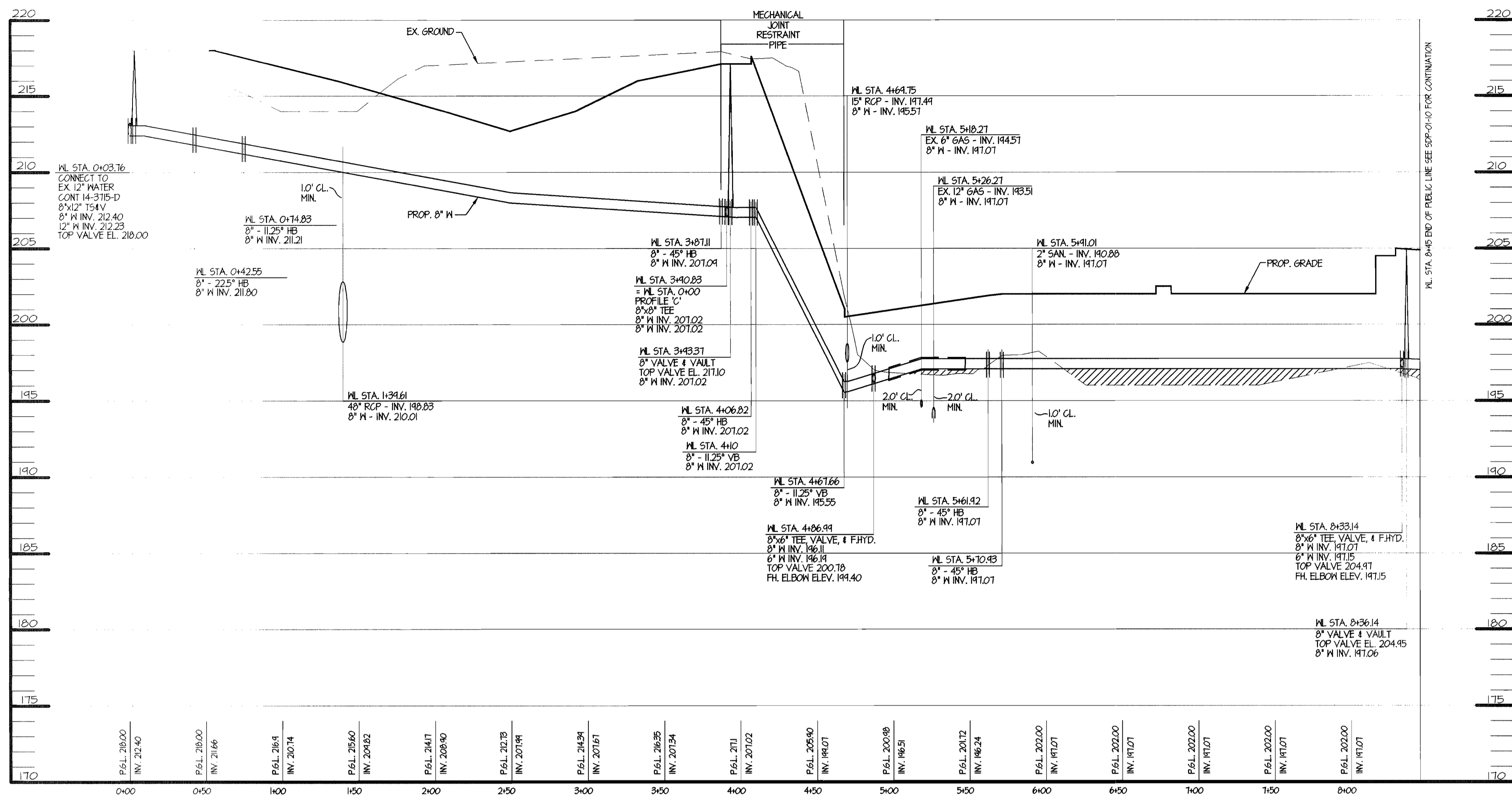


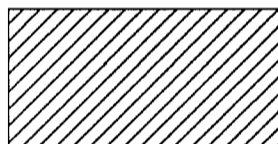
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600' SCALE MAP NO. 37  
BLOCK NO. 18  
**PUBLIC WATER PROFILES**

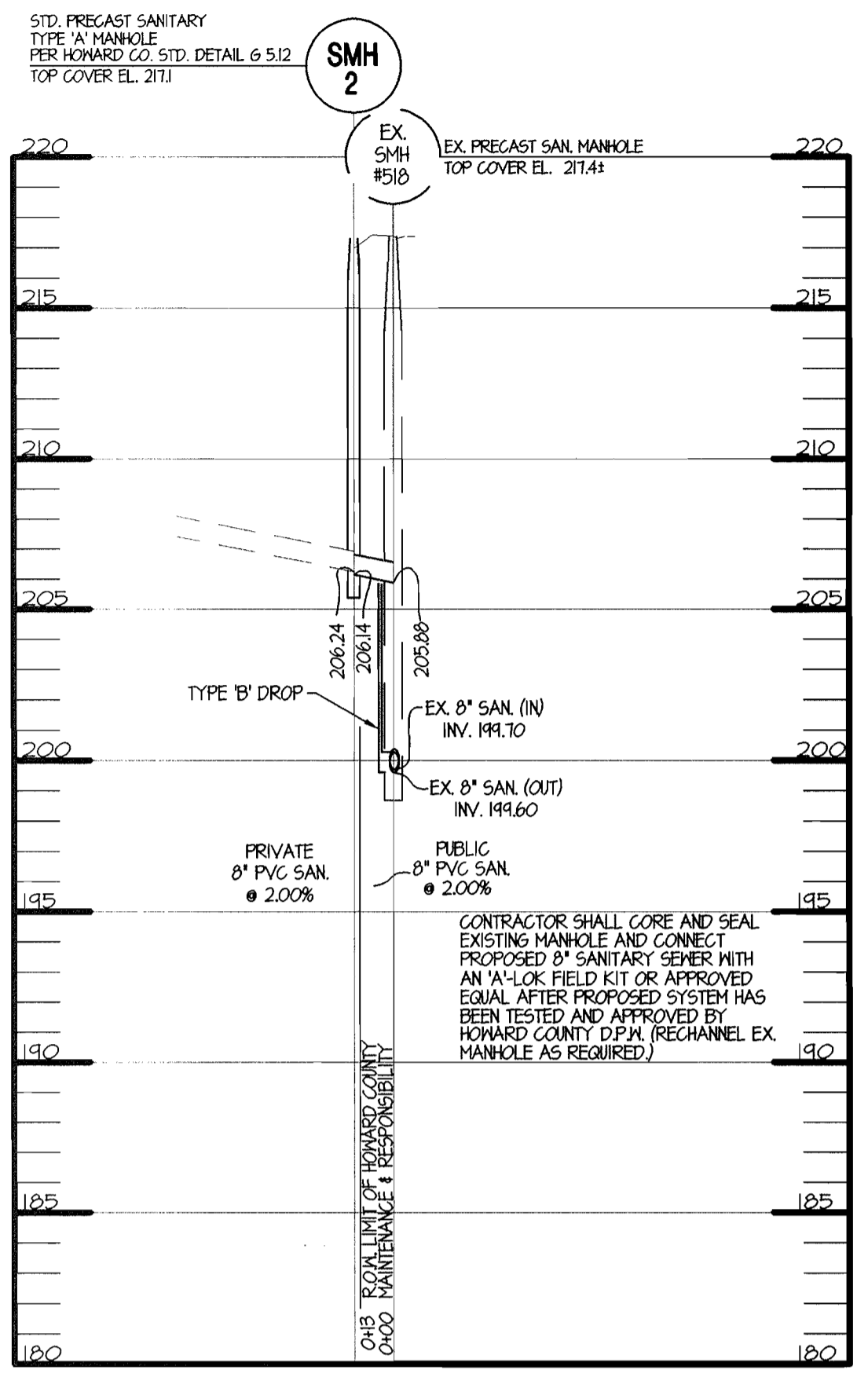
PROLOGIS PARK 1-95  
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SCALE AS SHOWN  
SHEET 4 OF 5



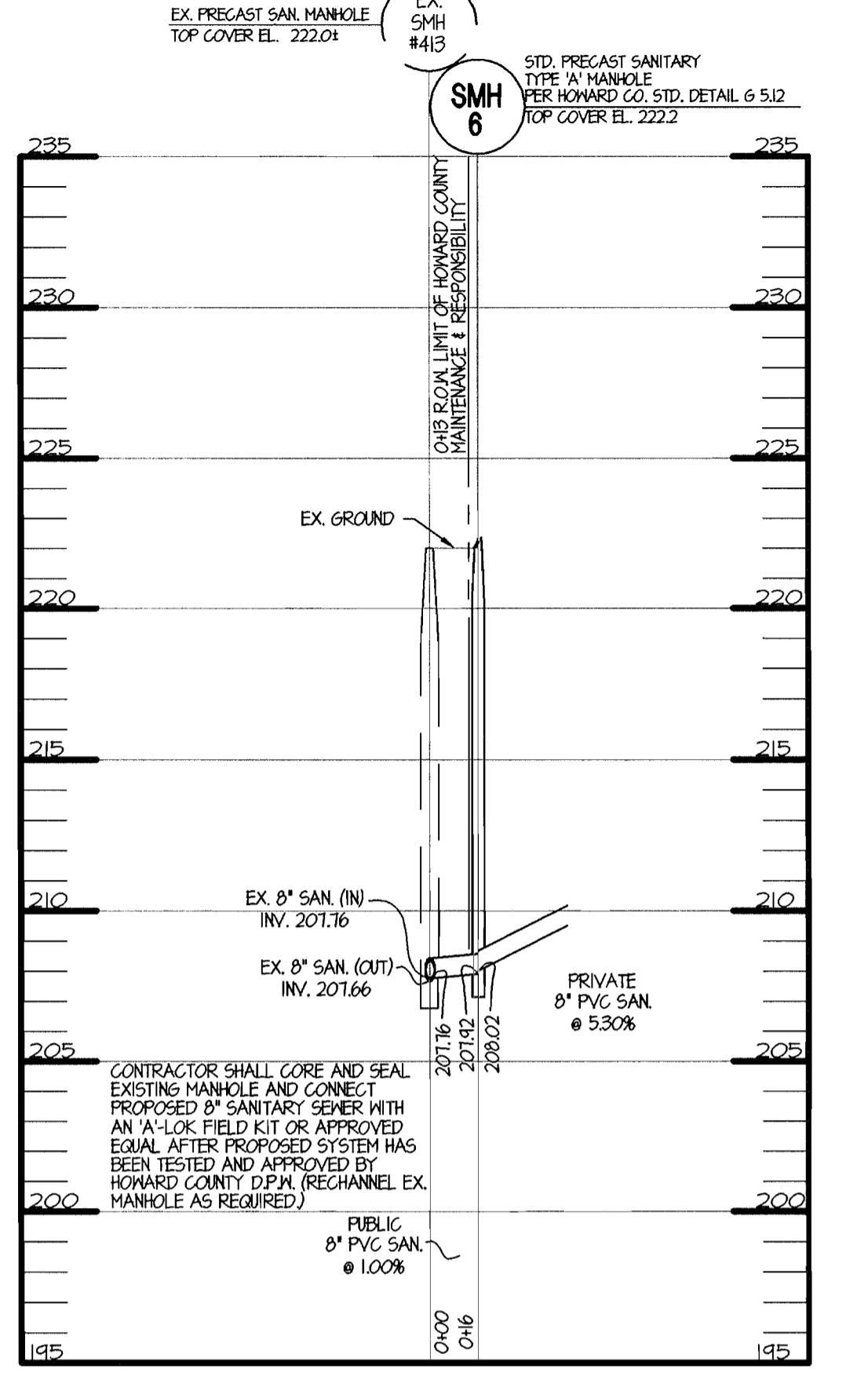
 CONTROLLED AND COMPACTED FILL AS DIRECTED BY AN APPROVED SOILS ENGINEER.

**PUBLIC WATER PROFILE 'B'**  
SCALE: HOR. 1" = 50'  
VERT. 1" = 5'



**SANITARY SEWER PROFILE**

HOR. 1" = 50'  
VERT. 1" = 5'



**SANITARY SEWER PROFILE**

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

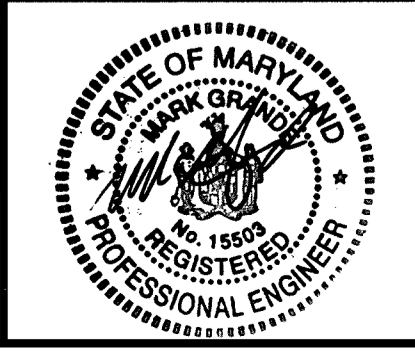
**TROY HILL CORPORATE CENTER**

OWNER/DEVELOPER	FAX NO.: 703-751-0787
A. NAME: Wayne Klotz	B. DAYTIME TELEPHONE: 703-751-9292
C. COMPANY: ProLogis	
D. ADDRESS: 5200 Eisenhower Avenue 2nd floor	
E. CITY: Alexandria	STATE: VA. ZIP: 22304

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Randy Beaman*  
CHIEF, BUREAU OF UTILITIES  
DATE: 10-27-00

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*Allen Williams*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 10/30/00

**MRA**  
MORRIS & RITCHE ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
9080 JUNCTION DRIVE SUITE 9  
ANNAPOLIS JUNCTION, MARYLAND 20701  
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FAX (410) 792-7385



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**PUBLIC WATER & SEWER PROFILES**  
600' SCALE MAP NO. 37 BLOCK NO. 18

**PROLOGIS PARK I-95**  
PARCEL A-14  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT # 14-3908-D

SCALE AS SHOWN  
SHEET 5 OF 5