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SITE DEVELOPMENT PLAN OF PROLOGIS PARK

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

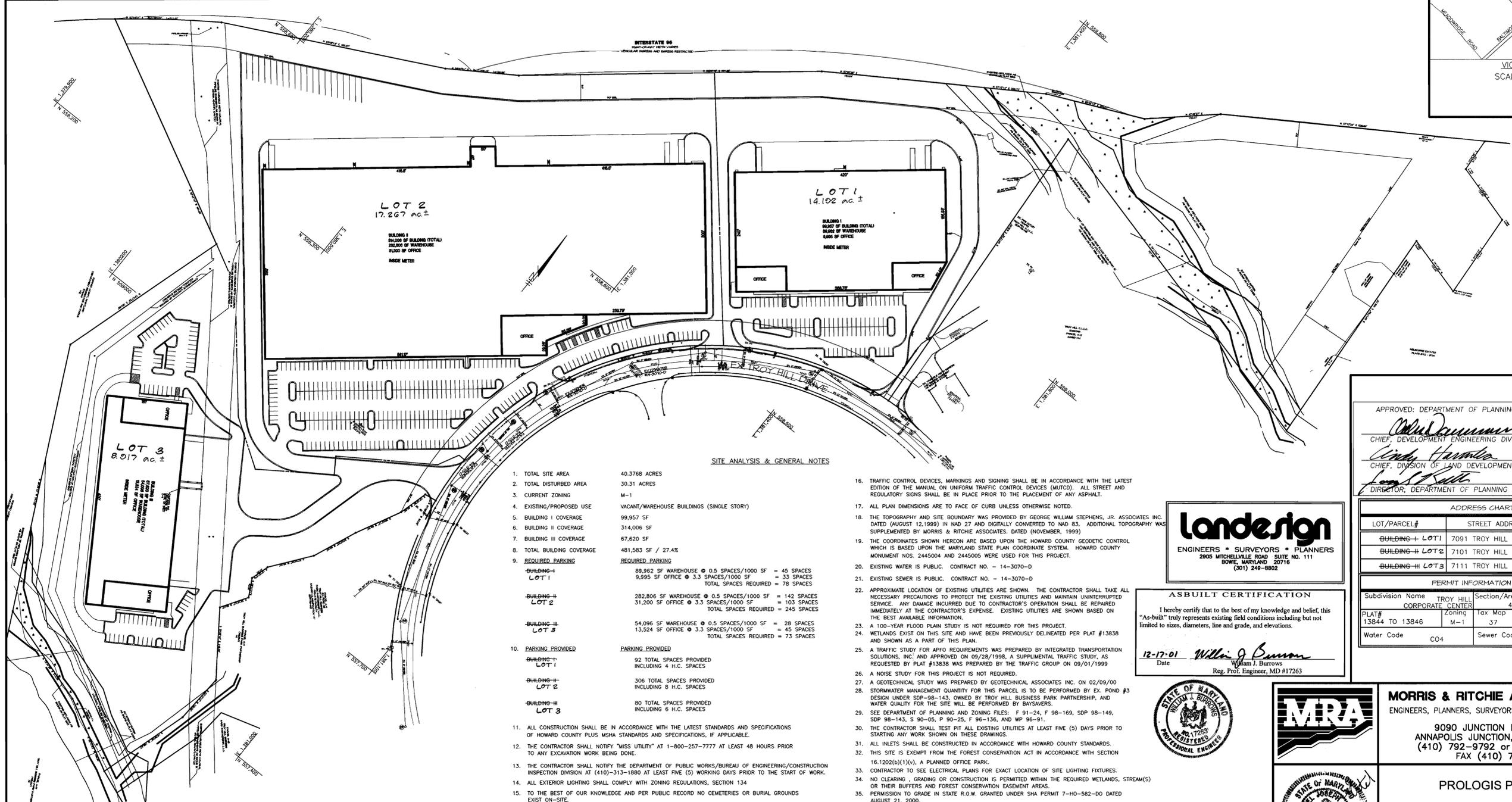
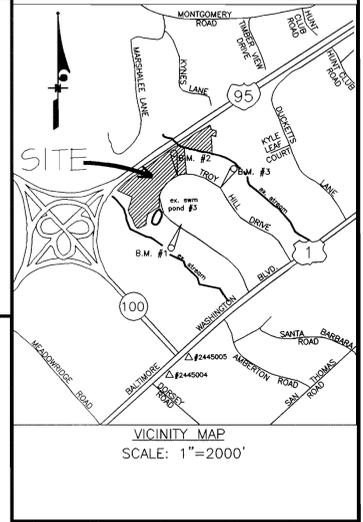
BENCHMARKS

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 87
AS PROJECTED BY HOWARD COUNTY
GEODETIC CONTROL STATIONS
#2445004, #2445005



SITE ANALYSIS & GENERAL NOTES

1. TOTAL SITE AREA 40.3768 ACRES
2. TOTAL DISTURBED AREA 30.31 ACRES
3. CURRENT ZONING M-1
4. EXISTING/PROPOSED USE VACANT/WAREHOUSE BUILDINGS (SINGLE STORY)
5. BUILDING I COVERAGE 99,957 SF
6. BUILDING II COVERAGE 314,006 SF
7. BUILDING III COVERAGE 67,620 SF
8. TOTAL BUILDING COVERAGE 481,583 SF / 27.4%
9. REQUIRED PARKING

BUILDING-I LOT 1 89,962 SF WAREHOUSE @ 0.8 SPACES/1000 SF = 45 SPACES 9,995 SF OFFICE @ 3.3 SPACES/1000 SF = 33 SPACES TOTAL SPACES REQUIRED = 78 SPACES	BUILDING-II LOT 2 282,806 SF WAREHOUSE @ 0.5 SPACES/1000 SF = 142 SPACES 31,200 SF OFFICE @ 3.3 SPACES/1000 SF = 103 SPACES TOTAL SPACES REQUIRED = 245 SPACES
BUILDING-III LOT 3 54,096 SF WAREHOUSE @ 0.5 SPACES/1000 SF = 28 SPACES 13,524 SF OFFICE @ 3.3 SPACES/1000 SF = 45 SPACES TOTAL SPACES REQUIRED = 73 SPACES	PARKING PROVIDED BUILDING-I LOT 1: 92 TOTAL SPACES PROVIDED INCLUDING 4 H.C. SPACES BUILDING-II LOT 2: 306 TOTAL SPACES PROVIDED INCLUDING 8 H.C. SPACES BUILDING-III LOT 3: 80 TOTAL SPACES PROVIDED INCLUDING 6 H.C. SPACES
10. PARKING PROVIDED
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
12. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
13. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
14. ALL EXTERIOR LIGHTING SHALL COMPLY WITH ZONING REGULATIONS, SECTION 134
15. TO THE BEST OF OUR KNOWLEDGE AND PER PUBLIC RECORD NO CEMETERIES OR BURIAL GROUNDS EXIST ON-SITE.
16. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
17. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
18. THE TOPOGRAPHY AND SITE BOUNDARY WAS PROVIDED BY GEORGE WILLIAM STEPHENS, JR. ASSOCIATES INC. DATED (AUGUST 12, 1999) IN NAD 27 AND DIGITALLY CONVERTED TO NAD 83. ADDITIONAL TOPOGRAPHY WAS SUPPLEMENTED BY MORRIS & RITCHE ASSOCIATES, DATED (NOVEMBER, 1999)
19. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL MONUMENT NOS. 2445004 AND 2445005 WERE USED FOR THIS PROJECT.
20. EXISTING WATER IS PUBLIC. CONTRACT NO. - 14-3070-D
21. EXISTING SEWER IS PUBLIC. CONTRACT NO. - 14-3070-D
22. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
23. A 100-YEAR FLOOD PLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
24. WETLANDS EXIST ON THIS SITE AND HAVE BEEN PREVIOUSLY DELINEATED PER PLAT #13838 AND SHOWN AS A PART OF THIS PLAN.
25. A TRAFFIC STUDY FOR APFO REQUIREMENTS WAS PREPARED BY INTEGRATED TRANSPORTATION SOLUTIONS, INC. AND APPROVED ON 09/28/1998. A SUPPLEMENTAL TRAFFIC STUDY, AS REQUESTED BY PLAT #13838 WAS PREPARED BY THE TRAFFIC GROUP ON 09/01/1999
26. A NOISE STUDY FOR THIS PROJECT IS NOT REQUIRED.
27. A GEOTECHNICAL STUDY WAS PREPARED BY GEOTECHNICAL ASSOCIATES INC. ON 02/09/00
28. STORMWATER MANAGEMENT QUANTITY FOR THIS PARCEL IS TO BE PERFORMED BY EX. POND #3 DESIGN UNDER SDP-98-143, OWNED BY TROY HILL BUSINESS PARK PARTNERSHIP, AND WATER QUALITY FOR THE SITE WILL BE PERFORMED BY BAYSAVERS.
29. SEE DEPARTMENT OF PLANNING AND ZONING FILES: F 91-24, F 98-169, SDP 98-149, SDP 98-143, S 90-05, P 96-156, AND WP 96-91
30. THE CONTRACTOR SHALL TEST ALL EXISTING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO STARTING ANY WORK SHOWN IN THESE DRAWINGS.
31. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
32. THIS SITE IS EXEMPT FROM THE FOREST CONSERVATION ACT IN ACCORDANCE WITH SECTION 16.1202(b)(1)(v), A PLANNED OFFICE PARK.
33. CONTRACTOR TO SEE ELECTRICAL PLANS FOR EXACT LOCATION OF SITE LIGHTING FIXTURES.
34. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
35. PERMISSION TO GRADE IN STATE R.O.W. GRANTED UNDER SHA PERMIT 7-HO-582-DO DATED AUGUST 21, 2000.

Landesign
ENGINEERS • SURVEYORS • PLANNERS
2905 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20716
(301) 248-8802

ASBUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.

12-17-01 *William J. Burrows*
Date William J. Burrows
Reg. Prof. Engineer, MD #17263

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Burrows 12/18/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE

Cindy Hamble 12/20/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Joseph J. Sells 12/20/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

ADDRESS CHART			
LOT/PARCEL#	STREET ADDRESS		
BUILDING-I LOT 1	7091 TROY HILL DRIVE		
BUILDING-II LOT 2	7101 TROY HILL DRIVE		
BUILDING-III LOT 3	7111 TROY HILL DRIVE		

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL	Section/Area	Lot/Parcel#
CORPORATE CENTER	40.3768 ACRES		PARCEL A-14
PLAT#	13844 TO 13846	Zoning M-1	Tax Map 37
Water Code	CO4	Elect. Distr. 1	Census Tract 6011.02
		Sewer Code	4020000

T-1



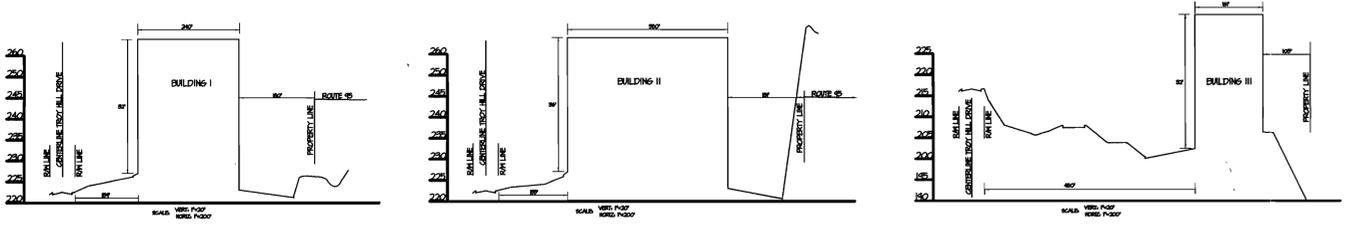
MORRIS & RITCHE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

PROLOGIS PARK I-95

**PARCEL A-14
SITE DEVELOPMENT PLAN**

ZONED M-1 GRID 18
TAX MAP 37 HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 1



OWNER/DEVELOPER

A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-0787
C. COMPANY: ProLogis
D. ADDRESS: 5200 Eisenhower Avenue 2nd floor
E. CITY: Alexandria STATE: VA. ZIP: 22304

ProLogis
The Global Distribution Solution
Development Services
Incorporated

5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

DATE	REVISIONS	JOB NO.:
07/24/00	REVISED LOCATION OF STORM DRAIN AND SEWER	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: AS NOTED
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG I 6" PER PROLOGIS	DRAWN BY: GLC
1/16/01	Lower Bldg 16", Spoil Area Grading Parcel	DESIGN BY: GLC
12-18-01	Change drawing to show "asbuilt" condition	REVIEW BY: TFM
		SHEET: 1 OF 23

MATCHLINE
SHT 3 OF 23

E 1,381,400 N 558,600

INTERSTATE 95

RIGHT-OF-WAY WIDTH VARIES
VEHICULAR INGRESS AND EGRESS RESTRICTED

THIS SLOPE MUST BE INSTALLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. THE ENGINEER MUST CERTIFY TO THE STABILITY OF THE SLOPE.
PROVIDE TEMP. FENCE DURING CONSTRUCTION
REPLACE FENCE IN KIND AFTER GRADING IS COMPLETE
N 50.16° 18' E 604.28'

CONTRACTOR TO USE CAUTION WHEN INSTALLING LIGHT POLE BASE SO AS TO NOT DAMAGE STORM DRAIN

EXISTING WETLANDS AS SHOWN ON PLAT 11872

CONTRACTOR TO USE CAUTION WHEN INSTALLING LIGHT POLE BASE SO AS TO NOT DAMAGE STORM DRAIN

CONTRACTOR TO USE CAUTION WHEN INSTALLING LIGHT POLE BASE SO AS TO NOT DAMAGE STORM DRAIN

CONTRACTOR TO USE CAUTION WHEN INSTALLING LIGHT POLE BASE SO AS TO NOT DAMAGE STORM DRAIN

LOT 2
17.267 ac. ±

BUILDING II
314,006 SF BUILDING (TOTAL)
282,806 SF WAREHOUSE
31,200 SF OFFICE
SLAB ELEVATION - 227' 00"
INSIDE METER

LOT 1
14.102 ac. ±

BUILDING I
99,957 SF BUILDING (TOTAL)
89,962 SF WAREHOUSE
9,995 SF OFFICE
SLAB ELEVATION - 227' 50"
INSIDE METER

ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
BUILDING-1 LOT 1	7091 TROY HILL DRIVE		

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#	PARCEL A-14	PLAT#	12428
Zoning	M-1	ax Map	37
Elect. Distr.	1	Census Tract	6011.02
Water Code	C04	Sewer Code	4020000

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Burrows 12/20/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION ce DATE

Charles Hamilton 12/20/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Paul Smith 12/20/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

C-1



ASBUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.

12-17-01 *William J. Burrows*
Date William J. Burrows
Reg. Prof. Engineer, MD #17263

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

PUBLIC WATER & SEWER SHOWN ON THESE PLANS TO BE BUILT UNDER HOWARD COUNTY CONTRACT # 14-3908-D SEE THOSE DRAWINGS FOR DETAILS OF CONSTRUCTION.

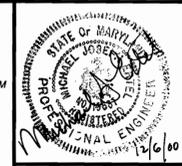
- LEGEND**
- 26 --- EX. CONTOUR
 - 218 --- PR. CONTOUR
 - 23 0' --- PR. SPOT ELEV.
 - HEAVY DUTY PAVING
 - LIGHT DUTY PAVING
 - CONCRETE PAVING
 - POLE LIGHT
 - BUILDING LIGHT
 - FIRE HYDRANT
 - STORM DRAIN INLET



5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787



MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
9090 JUNCTION DRIVE, SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395



PROLOGIS PARK I-95
PARCEL A-14
SITE DEVELOPMENT PLAN
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

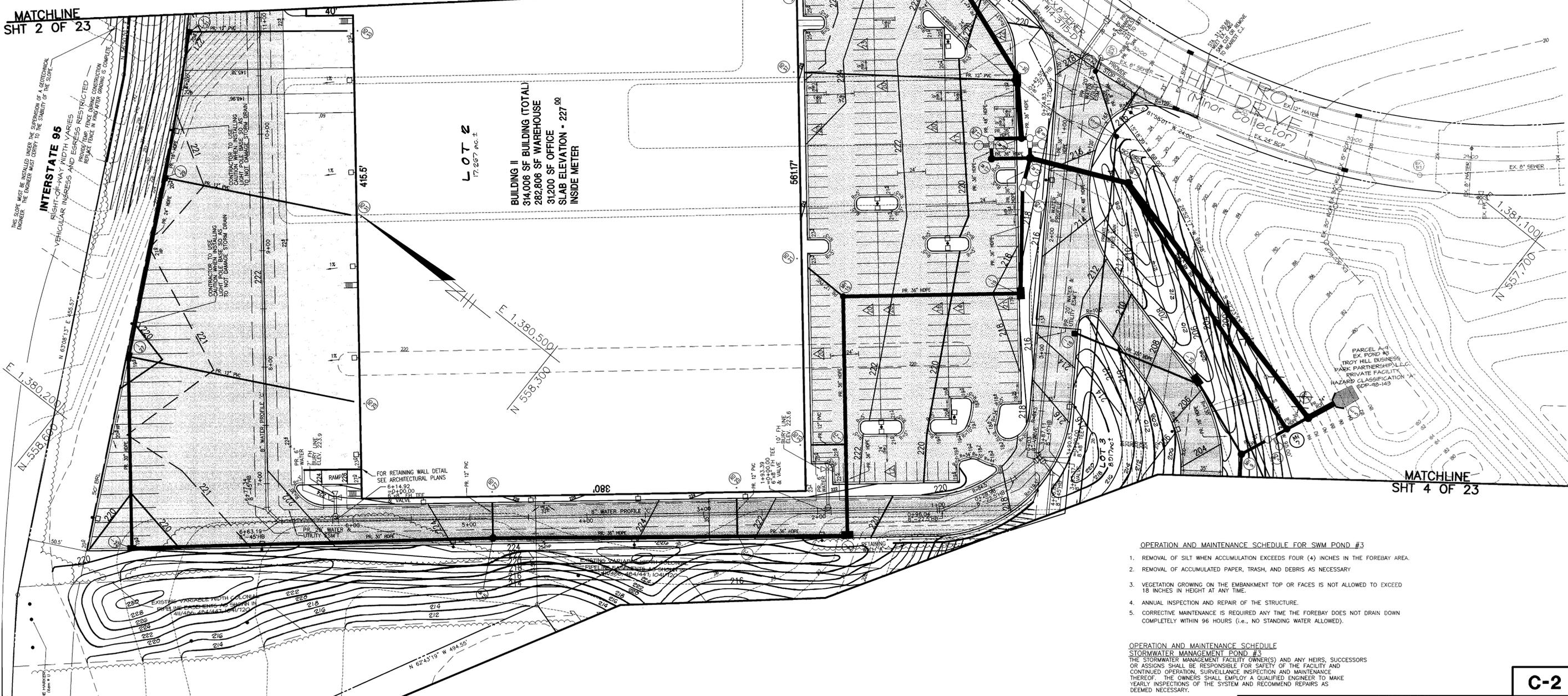
DATE	REVISIONS	JOB NO.:
08/15/00	REVISED PER COUNTY COMMENTS	11354
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	SCALE: 1" = 40'
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DATE: 06/23/00
12/20/00	REV. HANDLED GRADIES PER COUNTY COMMENTS	DRAWN BY: GLC/CAO
2-16-01	Lower Bldg 16" Spoil Area Grading Parcel	DESIGN BY: GLC/CAO
12-18-01	Change drawing to show "asbuilt" condition	REVIEW BY: MRA
		SHEET: 2 OF 23

ASBUILT

MATCHLINE
SHT 2 OF 23

MATCHLINE
SHT 4 OF 23

MATCHLINE
SHT 4 OF 23



LEGEND

--- 26 ---	EX. CONTOUR
--- 218 ---	PR. CONTOUR
23 0"	PR. SPOT ELEV.
[Symbol]	HEAVY DUTY PAVING
[Symbol]	LIGHT DUTY PAVING
[Symbol]	CONCRETE PAVING
[Symbol]	POLE LIGHT
[Symbol]	BUILDING LIGHT
[Symbol]	FIRE HYDRANT
[Symbol]	STORM DRAIN INLET

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BOWIE, MARYLAND 20716
(301) 249-8802



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12-17-01 *William J. Burrows*
Date *William J. Burrows*
Reg. Prof. Engineer, MD #17263

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Burrows 12/16/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Corinda Henderson 12/28/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

James J. Smith 12/28/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

ADDRESS CHART

LOT/PARCEL#	STREET ADDRESS
BUILDING II LOT 2	7101 TROY HILL DRIVE

PERMIT INFORMATION CHART

Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES	Lot/Parcel#	PARCEL A-14
PLAT#	12428	Zoning	M-1	Tax Map	37
Water Code	C04	Elect. Distr.	1	Census Tract	6011.02
Sewer Code	4020000				

PUBLIC WATER & SEWER SHOWN ON THESE PLANS TO BE BUILT UNDER HOWARD COUNTY CONTRACT # 14-3908-D SEE THOSE DRAWINGS FOR DETAILS OF CONSTRUCTION.

ProLogis
The Global Distribution Solution
Development Services
Incorporated

5200 Eisenhower Avenue
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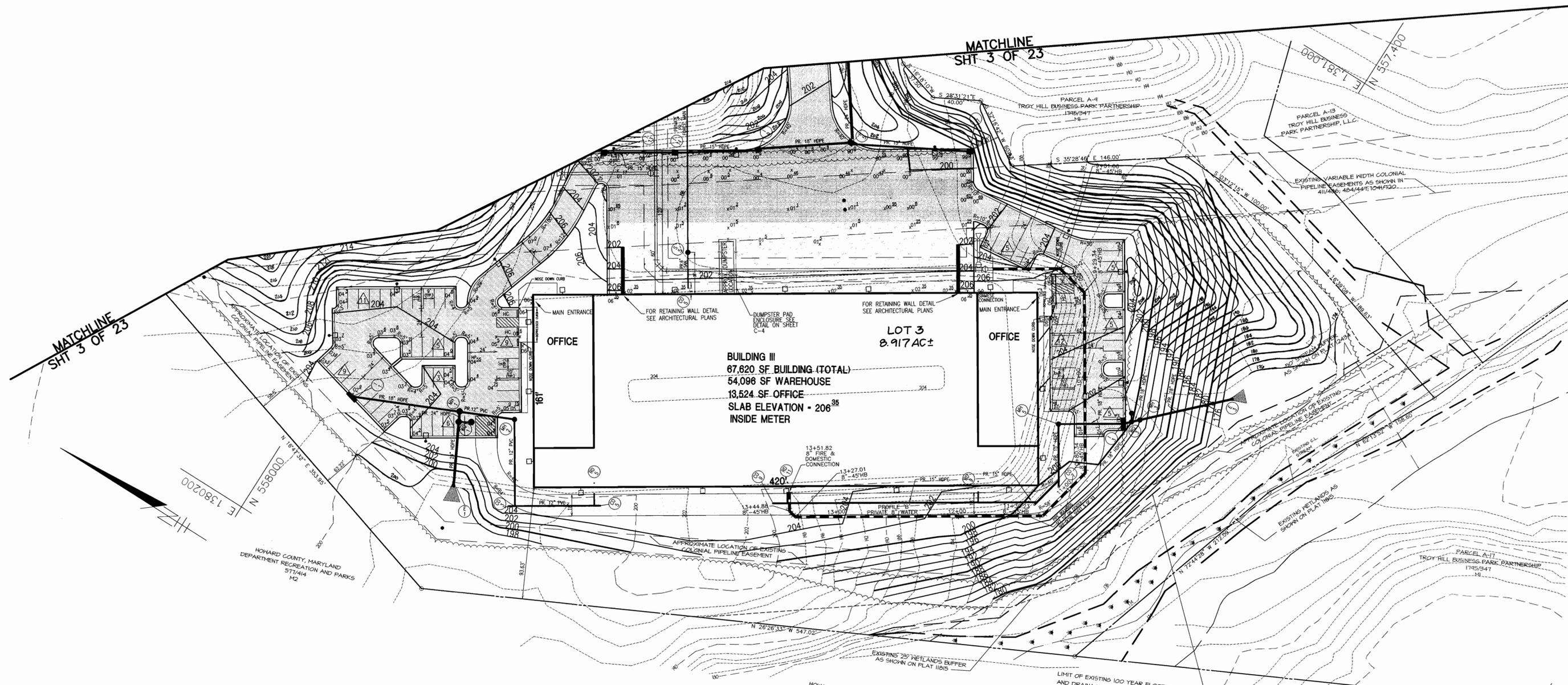
MRA
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9090 JUNCTION DRIVE, SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

PROLOGIS PARK I-95
PARCEL A-14
SITE DEVELOPMENT PLAN

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
07/24/00	REVISED STORM DRAIN AND SEWER	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: 1" = 40'
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DRAWN BY: GLC/CAO
2/16/01	Lower Bldg 16", Spoil Area Grading, Parcel 1	DESIGN BY: GLC/CAO
12-18-01	Change drawing to show "asbuilt" conditions	REVIEW BY: MRA
		SHEET: 3 OF 23



- LEGEND**
- EX. CONTOUR
 - 218 PR. CONTOUR
 - 23' PR. SPOT ELEV.
 - HEAVY DUTY PAVING
 - LIGHT DUTY PAVING
 - FIRE TRUCK ACCESS
 - CONCRETE PAVING
 - POLE LIGHT
 - BUILDING LIGHT
 - FIRE HYDRANT
 - STORM DRAIN INLET

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12-17-01 *William J. Burrows*
 Date William J. Burrows
 Reg. Prof. Engineer, MD #17263

PUBLIC WATER & SEWER SHOWN ON THESE PLANS TO BE BUILT UNDER HOWARD COUNTY CONTRACT # 14-3908-D SEE THOSE DRAWINGS FOR DETAILS OF CONSTRUCTION.

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ... 12/18/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy ... 12/20/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Joseph ... 12/20/00
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING III LOT 3	7111 TROY HILL DRIVE

PERMIT INFORMATION CHART					
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES	Lot/Parcel#	PARCEL A-14
PLAT#	12428	Zoning	M-1	Tax Map	37
		Elect. Distr.	1	Census Tract	6011.02
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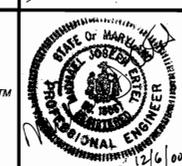
ASBUILT



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 Phone: 703.751.9292
 Fax: 703.751.0787



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PROLOGIS PARK I-95
 PARCEL A-14
SITE DEVELOPMENT PLAN
 ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
07/24/00	REVISED STORM DRAIN AND SEWER	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: 1" = 40'
09/19/00	REVISED PER COUNTY COMMENTS	DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DESIGN BY: GLC/CAO
02/16/01	LOWER BLDG 1 6", SPILL AREA GRADING, PARCEL	REVIEW BY: MRA
		SHEET: 4 OF 23

C-3

LIGHTING FIXTURE SCHEDULE (SITE ONLY)

ITEM NO.	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	REMARKS
POLES	THOMAS EMCO	GTS-25-II-DI-BRP	-	ON POLE	SINGLE LUMINAIRE
		GTS-25-II-D2-BRP	-	BASE	DOUBLE LUMINAIRE
1	THOMAS EMCO	ECA-181-QV-400W-H-BRP-480-PCF	1-400W METAL HALIDE	POLE	CONTROLLED BY PHOTOCELL SEE POLE BASE DETAIL
2	THOMAS EMCO	ECA-182-QV-400W-H-BRP-480-PCF	2-400W METAL HALIDE	POLE	CONTROLLED BY PHOTOCELL SEE POLE BASE DETAIL
3	DAYRITE	FLM-5-PCR-BTM-400W-MT-PLB	1-400W METAL HALIDE	BLDG WALL	PROVIDE TIGHT LOCK PHOTO CONTROL

GENERAL SITEWORK NOTES

- The correctness or completeness of existing information shown on the Drawings is not warranted or guaranteed. The Contractor shall verify the location of utilities and underground facilities, by test pits or other methods approved by the Owner's Representative, as required to verify exact locations and depths within the Limit of Disturbance (LOD). All discrepancies between information shown on the Drawings and that verified in the field shall be reported to the Owner's Representative prior to beginning work.
- The Contractor shall notify "Miss Utility" (1-800-257-7777) a minimum of three (3) working days prior to beginning layout and construction, and again prior to the beginning of planting operations.
- Existing utilities are to remain and shall be adjusted to proposed finish grade unless noted otherwise on the Drawings. The Contractor is responsible for all costs and work required to adjust the existing and to install the proposed utilities to finish grade within the Limit of Disturbance (LOD), including off-site easements and public rights-of-way, as applicable.
- Refer to construction documents prepared by the Mechanical or Electrical Engineer for disposition of existing and construction of new lighting, communication, and electrical services, unless noted otherwise on the Drawings.
- Existing curb and gutter, paving and base, walkways, steps, and other existing surfaces and features within the Limit of Disturbance (LOD) shall be removed unless noted otherwise on the Drawings, or as specified by the applicable Special Construction Notes.
- Existing trees and plant material within the Limit of Disturbance (LOD) shall be removed unless noted otherwise on the Drawings. Trees and plant material located outside of the LOD and those designated to remain shall be protected throughout the construction period, in accordance with the applicable notes and details if shown on the Drawings.
- Construction shall be in accordance with applicable federal, state, county and local regulations, standards and specifications. Refer to the Drawings if part of the contract documents for designated modifications and additional information. Contractor shall comply with applicable Occupational Safety & Health Administration (OSHA) laws and regulations for work on this project.
- The Contractor shall be responsible for obtaining all permits, not obtained and furnished to the Contractor by the Owner, and paying related fees required to complete the work on this project.
- The Contractor shall replace at no additional cost to the Owner, existing curb and gutter, paving, sidewalks, trees, plant material and other items designated to remain on the site and within the public rights-of-way which are damaged during construction. Areas disturbed, but not designated for paving or planting areas, shall be permanently stabilized by seeding or sodding in accordance with the vegetative stabilization notes on the Drawings, and specifications in the when applicable.
- Curb and gutter shall be constructed with "regular cross slope" or "reverse cross slope" as required to reflect the direction of slope on adjacent paving. Refer to the Drawings for curb and gutter details. Curb and gutter shall be constructed with smooth vertical curve transitions at all high point, low point and inlet locations.
- Sanitary sewer and storm drain pipe elevations are to the invert unless noted otherwise on the Drawings. Utility manholes and storm drain structure frames, grates, or inlet headpieces shall be adjusted and installed at the same line, grade and cross slope of proposed finish grade in adjacent lawn and paved areas.
- Water lines shall be installed with a minimum cover of three feet six inches (3'-6") above the top of pipe unless otherwise noted otherwise on the Drawings.
- Sanitary sewer, roof and storm drain cleanouts located within paved areas shall be a "flush type" installed at the same elevation as the surrounding pavement. Refer to the Drawings for additional information.
- Areas adjacent to buildings, unless otherwise noted on the Drawings, shall be graded to divert water away at the following minimum gradients:
Concrete and impervious surfaces: 1% minimum
Lawn and pervious surfaces: 2% minimum
- Where new curb and gutter meets existing curb and gutter, the existing shall be removed to the nearest joint, or saw cut to provide a clean, uniform joint with the new curb and gutter.
- Proposed spot elevations shown in driveways, service and parking areas are the top of paved surfaces and bottom of curbs unless noted otherwise on the Drawings.
- Where new curb is installed adjacent to existing pavement which is to receive an overlay, the overlay thickness may vary as required (minimum of 1-inch) in order to maintain the specified curb reveal as shown on the details. It is anticipated that minor field adjustment to the top of curb elevations noted on the Drawings may be necessary in order to provide a uniform curb reveal, provide smooth transition of the finished surface and maintain flow along the curbline into drainage structures. Contact the Owner's Representative for approval of adjustments prior to installing new curb.
- Refer to construction documents prepared by the Mechanical or Electrical Engineer for disposition of existing and construction of new lighting, communication, and electrical services, unless noted otherwise on the Drawings.

UTILITY TRENCH BACKFILL

- Materials**
 - Pipe Bedding Material - pipe bedding material shall consist of well graded sand, or graded aggregate (GAB). Open graded stone (#57) can be used if it is wrapped in geo-textile filter material.
 - Backfill Materials - The backfill shall consist of on-site or off-site soils conforming to the requirement of the geotechnical report and County specifications. No stones larger than 2 inches should be allowed within 2 feet of the utility. Larger stones, up to 8 inches in the largest dimension can be used in lifts 2 feet above the utility. No organic material shall be allowed. For granular soils (less than 35% passing #200 sieve), the soil moisture should be within 3 percentage points of optimum unless otherwise dictated by project engineer or County specifications. For fine-grained soils (greater than 35% passing #200 sieve), the soil moisture should be within 0 to plus 4 percent of optimum unless otherwise dictated by engineer or County specifications.

The compaction requirement shall be 92 percent of the Modified Proctor (ASTM D-1557) maximum dry density for below the top 12-inches of roadway subgrade. The top 12 inches should be compacted to 97% unless otherwise recommended by the geotechnical engineer. The top 12 to 24 inches of soil may be required to meet certain material properties for subgrade support for pavements.

- Backfilling Procedures**
 - Contractor shall place level lifts of soil adjacent and above the utility. The lift thickness shall be dependant upon the type of equipment being used for compaction and the materials. The following shall be used as a guide:
 - Fine-Grained Materials - fine-grained materials (materials with more than 35% passing #200 sieve) should be compacted with sheeps-foot type roller. The lift thickness should not exceed 4 inches if hand operated equipment is used. Hand equipment will be required for compaction around manholes, structures and adjacent to and over the trench. If heavy construction sheeps-foot compaction equipment is used, a maximum loose lift thickness should be no greater than the length of the sheeps-foot or a maximum of eight inches. Each lift should be uniformly compacted with a sufficient number of passes to obtain the required degree of compaction.
 - Granular Soils - granular soils (materials with less than 35% passing #200 sieve) should be compacted with a vibratory type compaction equipment. The loose lift thickness should not exceed 4 inches for hand operated equipment. Hand equipment will be required around manholes, structures and adjacent to and above the utility. If heavy vibratory compaction equipment is used, then the loose lift thickness can be increased to 8 inches. Each lift should be uniformly compacted with a sufficient number of passes to obtain the recommended degree of compaction.

If a lift fails to meet the required compaction, then the lift should be re-compacted and retested. If the material is too wet or too dry, the moisture should be adjusted to within the required range prior to re-compaction.

- Testing**

Each lift of fill should be monitored for stability, lift thickness and compactive effort. A density test should be performed for each lift of fill placed per every 150 feet of trench. This requirement includes the utility lateral connections. The test procedure should be the sand cone method (ASTM D-1556) or the nuclear gauge method (ASTM D-2922). The test results should be made available to the contractor upon the completion of the test. For each test, the technician should record the following: Date; test location; test elevation; material type; degree of compaction; one-point results; lift thickness; and moisture content.



ASBUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.
Date: 12-17-01
Signature: William J. Burrows
Title: Reg. Prof. Engineer, MD #121783

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: [Redacted]
Title: CHIEF, DEVELOPMENT ENGINEERING DIVISION
Date: 12/18/01

Signature: [Redacted]
Title: CHIEF, DIVISION OF LAND DEVELOPMENT
Date: 12/20/01

Signature: [Redacted]
Title: DIRECTOR, DEPARTMENT OF PLANNING AND ZONING
Date: 12/20/01

ADDRESS CHART			
LOT/PARCEL#	STREET ADDRESS		
LOT 1	7091 TROY HILL DRIVE		
LOT 2	7101 TROY HILL DRIVE		
LOT 3	7111 TROY HILL DRIVE		

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#		Parcel A-14	
PLAT#	12428	Zoning	M-1
		Tax Map	37
		Elect. Distr.	1
		Census Tract	8011.02
Water Code	CO4		
Sewer Code	4020000		

C-4



MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395



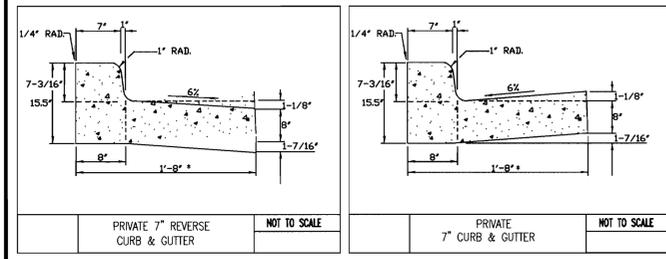
PROLOGIS PARK I-95
PARCEL A-14

SITE NOTES AND DETAILS

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:	SCALE:
08/15/00	REVISED	11354	AS SHOWN
9/19/00	REVISED PER HOWARD COUNTY COMMENT		DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY		DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS		DESIGN BY: GLC/CAO
2/16/01	LOWER BLDG 1 G. SPOIL AREA GRADING, PARCEL		REVIEW BY: GLC/TFM
12/12/01	AS-BUILT DRAWING		SHEET: 5 OF 23

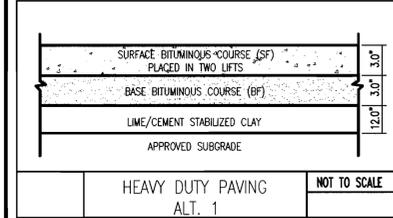
ASBUILT SDP-01-10



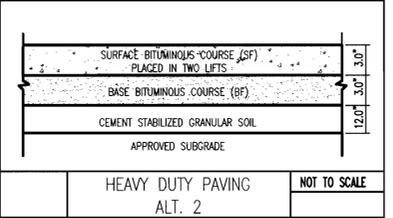
PRIVATE 7" REVERSE CURB & GUTTER NOT TO SCALE

7" PRIVATE CURB & GUTTER NOT TO SCALE

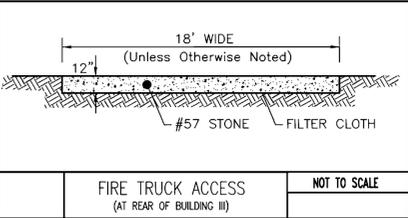
* TRANSITION FROM PRIVATE CURB TO HOWARD CO. STD. (2'-2") CURB DETAIL R-3.01 10' PRIOR TO REACHING PUBLIC RIGHT-OF-WAY.



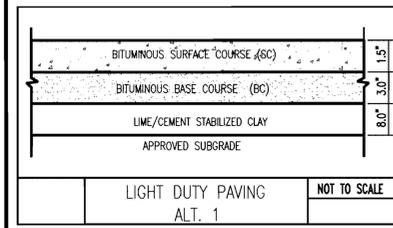
HEAVY DUTY PAVING ALT. 1 NOT TO SCALE



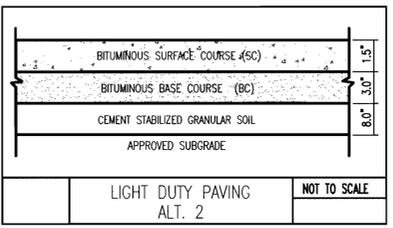
HEAVY DUTY PAVING ALT. 2 NOT TO SCALE



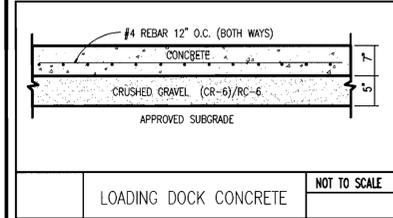
FIRE TRUCK ACCESS (AT REAR OF BUILDING III) NOT TO SCALE



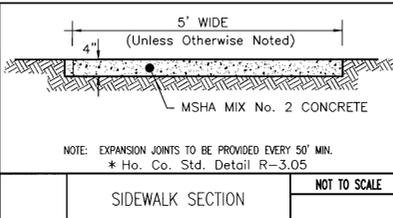
LIGHT DUTY PAVING ALT. 1 NOT TO SCALE



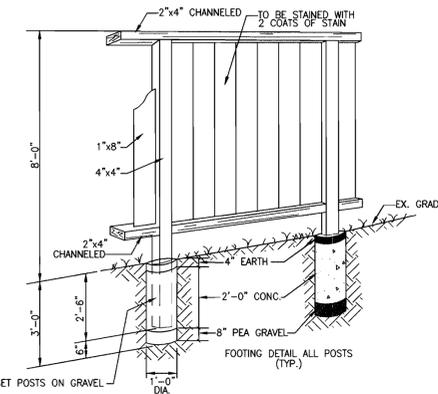
LIGHT DUTY PAVING ALT. 2 NOT TO SCALE



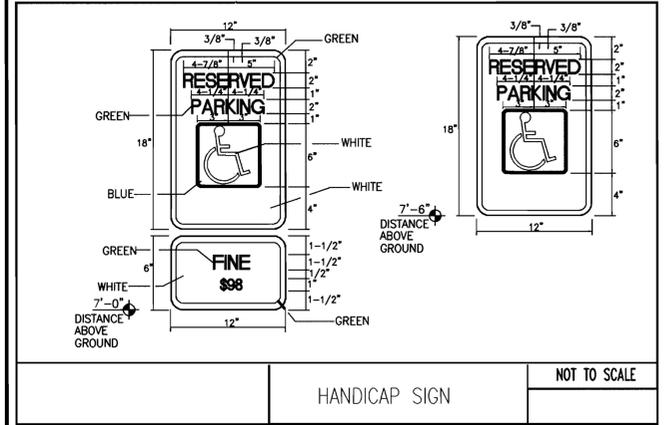
LOADING DOCK CONCRETE NOT TO SCALE



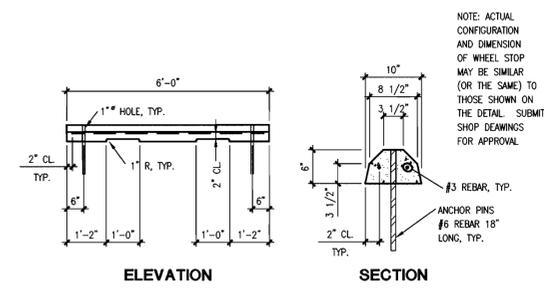
SIDEWALK SECTION NOT TO SCALE



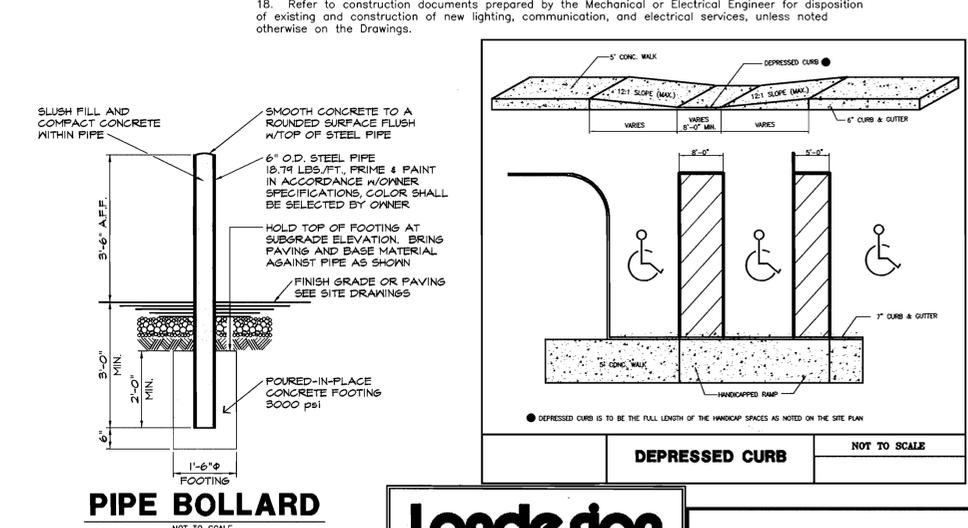
SOLID BOARD FENCE DETAIL NOT TO SCALE



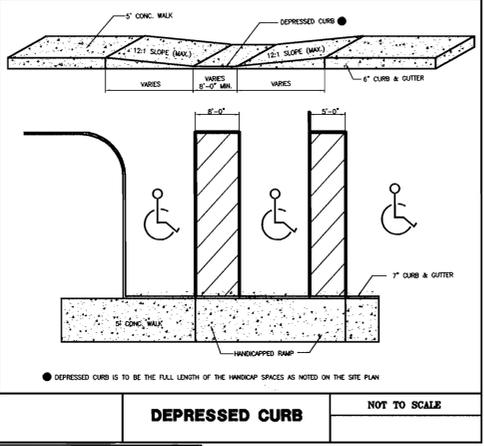
HANDICAP SIGN NOT TO SCALE



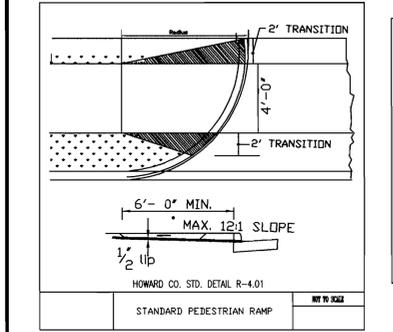
WHEELSTOP DETAIL NOT TO SCALE



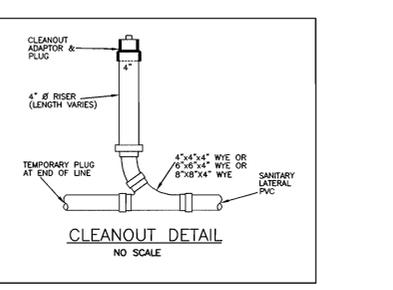
PIPE BOLLARD NOT TO SCALE



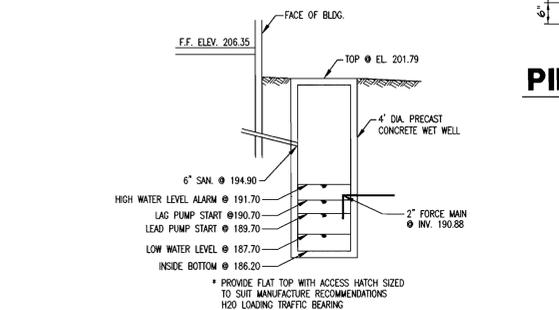
DEPRESSIONED CURB NOT TO SCALE



STANDARD PEDESTRIAN RAMP NOT TO SCALE



CLEANOUT DETAIL NO SCALE



SANITARY WET WELL DETAIL NOT TO SCALE

Landesign
ENGINEERS * SURVEYORS * PLANNERS
2906 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20718
(301) 248-8802

ProLogis
The Global Distribution Solution
Development Services
Incorporated

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

5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

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

BY THE DEVELOPER
 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 ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Developer: *Wayne P. Klotz* (Wayne P. Klotz) DATE: 07/21/00
 PRINT NAME BELOW SIGNATURE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division CE DATE: 12/10/00
 Chief, Division of Land Development DATE: 12/11/00
 Director, Department of Planning and Zoning DATE: 12/20/00

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 US D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE: 12/15/00

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD S.C.D. DATE: 12/15/00

C-5



MORRIS & RITCHE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
 9090 JUNCTION DRIVE, SUITE 9
 ANNAPOLIS JUNCTION, MARYLAND 20701
 (410) 792-9792 or (301) 776-1690
 FAX (410) 792-7395



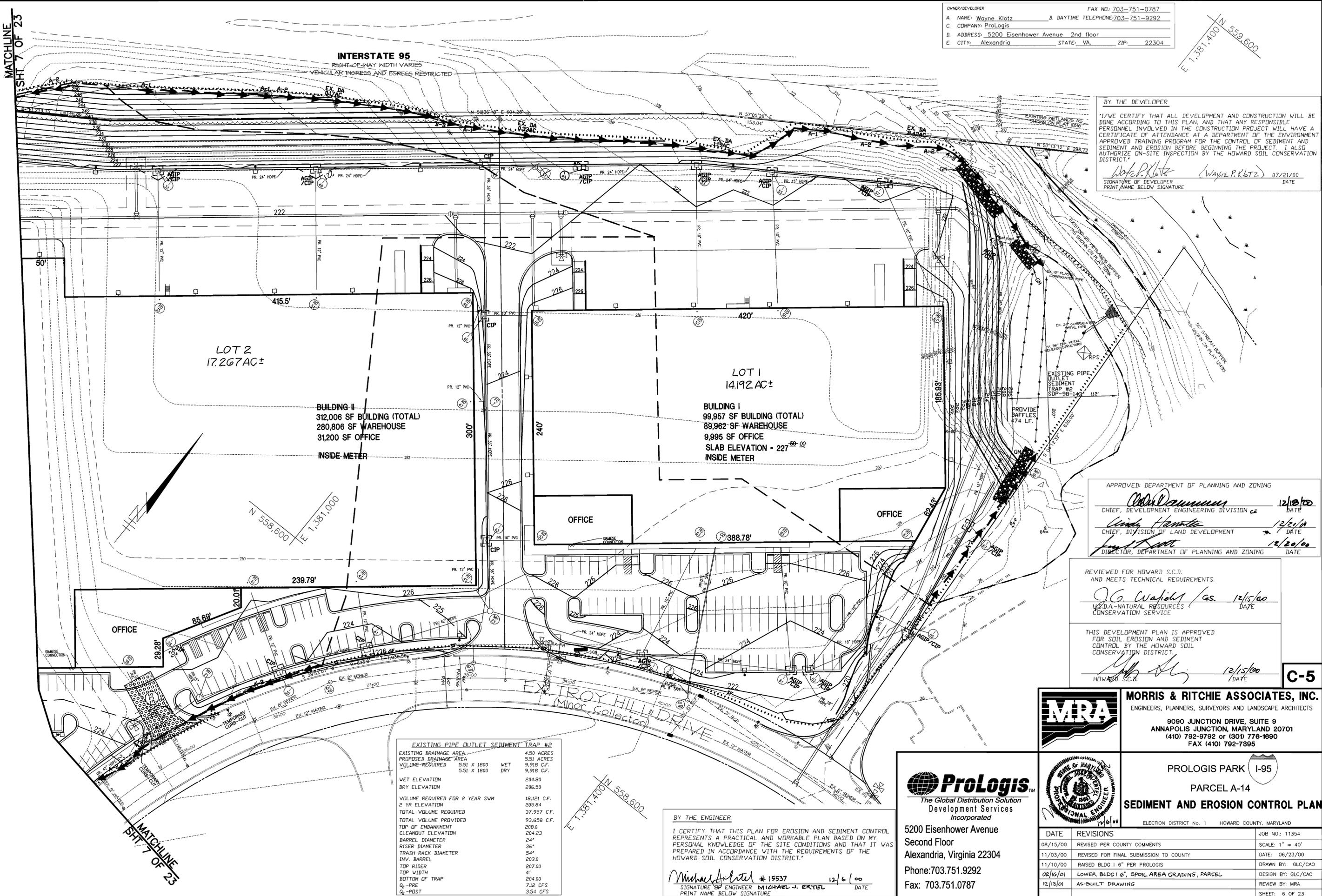
PROLOGIS PARK I-95
 PARCEL A-14
 SEDIMENT AND EROSION CONTROL PLAN
 ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND



5200 Eisenhower Avenue
 Second Floor
 Alexandria, Virginia 22304
 Phone: 703.751.9292
 Fax: 703.751.0787

BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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.
 Signature of Engineer: *Michael J. Ertel* # 15537 DATE: 12/6/00
 PRINT NAME BELOW SIGNATURE: MICHAEL J. ERTTEL

EXISTING PIPE OUTLET SEDIMENT TRAP #2			
EXISTING DRAINAGE AREA	4.50 ACRES		
PROPOSED DRAINAGE AREA	5.51 ACRES		
VOLUME REQUIRED	5.51 X 1800	WET	9,918 C.F.
	5.51 X 1800	DRY	9,918 C.F.
WET ELEVATION			204.80
DRY ELEVATION			206.50
VOLUME REQUIRED FOR 2 YEAR SWM	18,121 C.F.		
2 YR ELEVATION	205.84		
TOTAL VOLUME REQUIRED	37,957 C.F.		
TOTAL VOLUME PROVIDED	93,658 C.F.		
TOP OF EMBANKMENT	208.0		
CLEANDUT ELEVATION	204.23		
BARREL DIAMETER	24"		
RISER DIAMETER	36"		
TRASH RACK DIAMETER	54"		
INV. BARREL	203.0		
TOP RISER	207.00		
TOP WIDTH	4'		
BOTTOM OF TRAP	204.00		
Q ₀ - PRE	7.12 CFS		
Q ₀ - POST	3.54 CFS		



MATCHLINE
 SHIT 7 OF 23

MATCHLINE
 SHIT 7 OF 23

EXISTING SEDIMENT BASIN #3	
EXISTING DRAINAGE AREA	8.59 ACRES
PROPOSED DRAINAGE AREA	23.51 ACRES
VOLUME REQUIRED 23.51 X 1800 WET	22,158 C.F.
23.51 X 1800 DRY	22,158 C.F.
WET ELEVATION	184.00
DRY ELEVATION	187.14
VOLUME REQUIRED FOR 2 YEAR SWM	90,875 C.F.
2 YR ELEVATION	190.82
TOTAL VOLUME REQUIRED	135,191 C.F.
TOTAL VOLUME PROVIDED	260,924 C.F.
TOP OF EMBANKMENT	193.50
TOP WIDTH	12.0
CLEANOUT ELEV.	182.15
BARREL DIAMETER	3.5'
INV. BARREL	179.50
TOP RISER	192.69
BOTTOM	180.00
Q ₁ -PRE	22.41 CFS
Q ₁ -POST	21.57 CFS

BY THE DEVELOPER

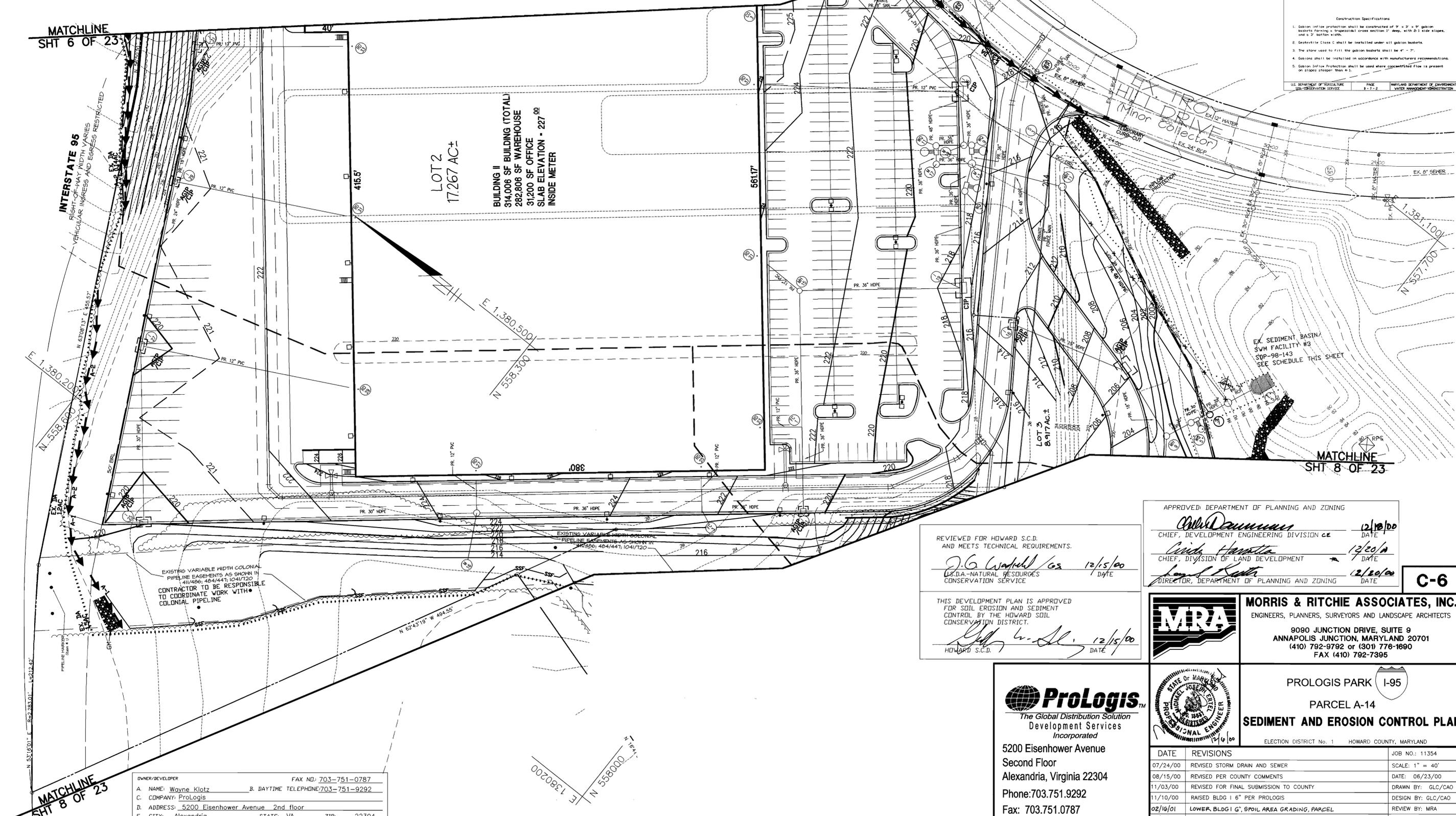
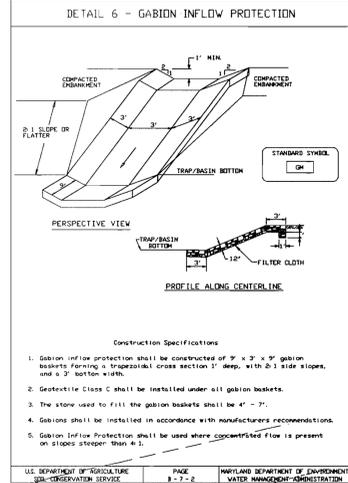
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Wayne P. Klotz (Wayne P. Klotz) 07/21/00
 SIGNATURE OF DEVELOPER DATE
 PRINT NAME BELOW SIGNATURE

BY THE ENGINEER

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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.

Michael J. Ertel #15537 12/6/00
 SIGNATURE OF ENGINEER DATE
 PRINT NAME BELOW SIGNATURE



REVIEWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS.

J.G. Workfield/GS 12/15/00
 U.S.D.A.-NATURAL RESOURCES
 CONSERVATION SERVICE DATE

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

John W. Kelly 12/15/00
 HOWARD S.C.D. DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Dawson 12/10/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION ce DATE

Paula Hanlon 12/20/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Paul S. Smith 12/20/00
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

C-6



MORRIS & RITCHIE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE, SUITE 9
 ANNAPOLIS JUNCTION, MARYLAND 20701
 (410) 792-9792 or (301) 776-1690
 FAX (410) 792-7395



ProLogis
 The Global Distribution Solution
 Development Services
 Incorporated

5200 Eisenhower Avenue
 Second Floor
 Alexandria, Virginia 22304
 Phone: 703.751.9292
 Fax: 703.751.0787



PROLOGIS PARK I-95
 PARCEL A-14
SEDIMENT AND EROSION CONTROL PLAN

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.: 11354
07/24/00	REVISED STORM DRAIN AND SEWER	SCALE: 1" = 40'
08/15/00	REVISED PER COUNTY COMMENTS	DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DESIGN BY: GLC/CAO
02/16/01	LOWER BLDG 1 G, SPOIL AREA GRADING, PARCEL	REVIEW BY: MRA
12/10/01	AS-BUILT DRAWING	SHEET: 7 OF 23

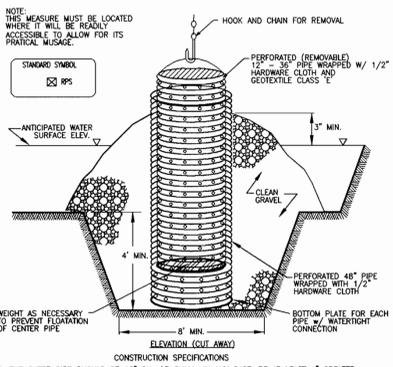
OWNER/DEVELOPER FAX NO: 703-751-0787

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



- REMOVABLE PUMPING STATION**
NOT TO SCALE
- THE OUTER PIPE SHOULD BE 48" DIA. OR SMALLER, IN ANY CASE, BE AT LEAST 4" GREATER IN DIAMETER THAN THE CENTER PIPE. THE OUTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PERFORATIONS.
 - AFTER INSTALLING THE OUTER PIPE, BACKFILL AROUND OUTER PIPE WITH 2" AGGREGATE OR CLEAN GRAVEL.
 - THE INSIDE STAND PIPE (CENTER PIPE) SHOULD BE CONSTRUCTED BY PERFORATING A CORRUGATED OR PVC PIPE BETWEEN 12" AND 36" IN DIAMETER. THE PERFORATIONS SHALL BE 12" x 6" SLOTS OR 1" DIAMETER HOLES 6" ON CENTER. THE CENTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH FIRST, THEN WRAPPED AGAIN WITH GEOTEXTILE CLASS E.
 - THE CENTER PIPE SHOULD EXTEND 12" TO 18" ABOVE THE ANTICIPATED WATER SURFACE ELEVATION OR REEF CREST ELEVATION WHEN DRAINING A BARR.

SOIL DUST CONTROL

Definition
Controlling dust blowing and movement on construction sites and roads.

Purpose
To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies
This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Specifications

Temporary Methods

- Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
- Vegetative Cover - See standards for temporary vegetative cover.
- Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
- Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
- Barriers - Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similar materials can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
- Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods

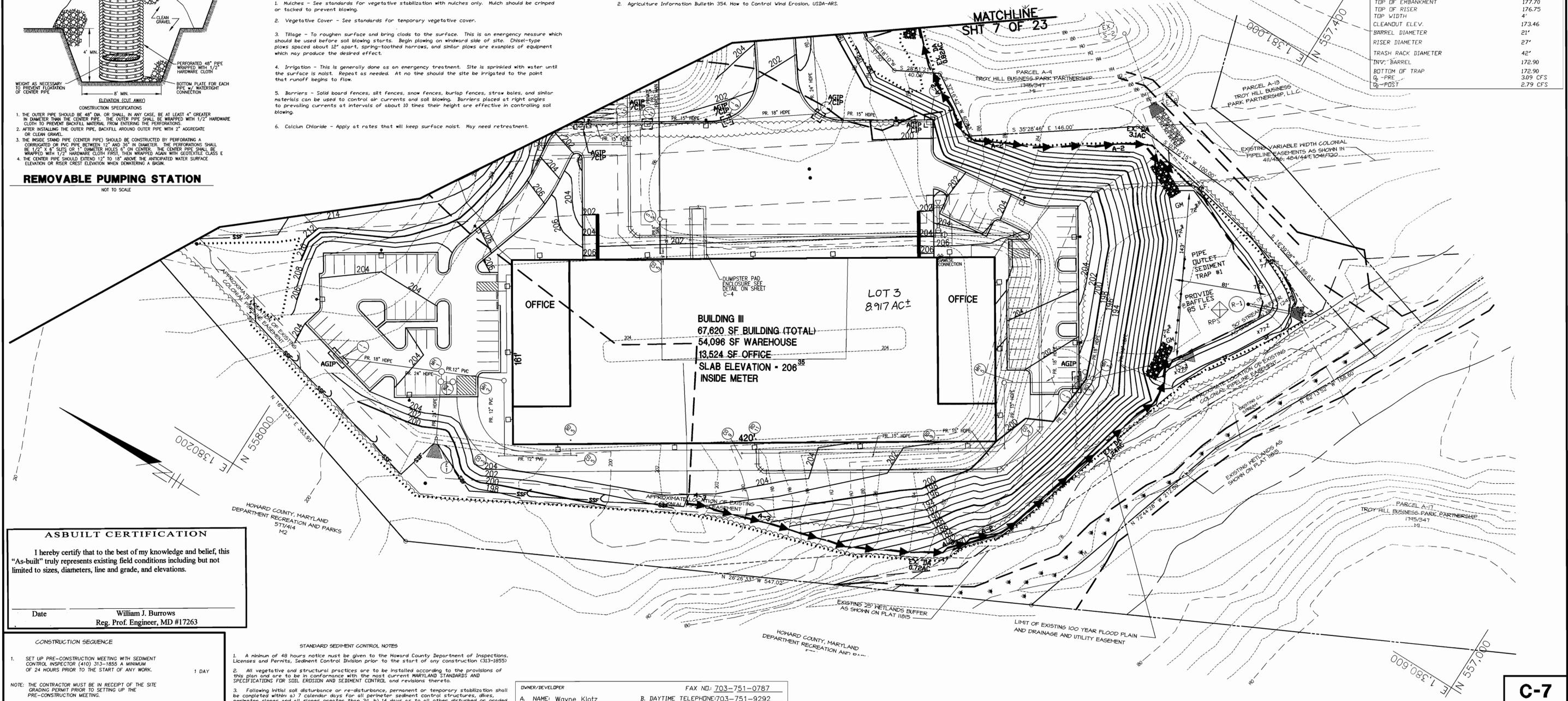
- Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- Topsailing - Covering with less erosive soil materials. See standards for topsailing.
- Stone - Cover surface with crushed stone or coarse gravel.

References

- Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
- Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

PIPE OUTLET TRAP #1

EXISTING DRAINAGE AREA	5.0 ACRES
PROPOSED DRAINAGE AREA	2.8 ACRES
VOLUME REQUIRED	5.0 X 1800 WET 5.0 X 1800 DRY
WET ELEVATION	174.02
DRY ELEVATION	176.70
VOLUME REQUIRED FOR 2 YEAR SWM	17,302 C.F.
2 YR ELEVATION	176.13
TOTAL VOLUME REQUIRED	35,302 C.F.
TOTAL VOLUME PROVIDED	46,307 C.F.
TOP OF EMBANKMENT	177.70
TOP OF RISER	176.75
TOP WIDTH	4'
CLEARDOUT ELEV.	173.46
BARREL DIAMETER	21"
RISER DIAMETER	27"
TRASH RACK DIAMETER	42"
INVT. BARREL	172.90
BOTTOM OF TRAP	172.90
Q - PIPE	3.09 CFS
Q ₂ - POST	2.79 CFS



AS-BUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.

Date: _____
 William J. Burrows
 Reg. Prof. Engineer, MD #17263

- CONSTRUCTION SEQUENCE**
- SET UP PRE-CONSTRUCTION MEETING WITH SEDIMENT CONTROL INSPECTOR (410) 313-1855 A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK. 1 DAY
 - BRING EXISTING PIPE OUTLET SEDIMENT TRAP AND EXISTING SWM FACILITY BACK TO ORIGINAL SEDIMENT CONTROL DESIGN SPECIFICATIONS PER SDP-98-143. INSTALL PIPE OUTLET SEDIMENT TRAP #2. 1 WEEK
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, SILT FENCE AND EARTHEN BERM AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. 3 WEEKS
 - BEGIN CLEARING, GRADING, TREE REMOVAL, BUILDING, PARKING, RETAINING WALL, AND UTILITY CONST. PROVIDE DUST CONTROL MEASURES AS REQUIRED. 3 MONTHS
 - WHEN THE BUILDING PAD IS STABILIZED AND THE SURROUNDING AREA IS STABILIZED AND WITH THE WRITTEN PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, INSTALL SUPER SILT FENCE DOWNSTREAM OF THE STONE OUTLET SEDIMENT AND REMOVE THE PIPE OUTLET SEDIMENT TRAP AS SHOWN ON INSET A-A. BEGIN CONSTRUCTION OF NORTHERN ENTRANCE AND UTILITIES. 3 WEEKS
 - WHEN CONSTRUCTION IS COMPLETE STABILIZE SITE. 3 WEEKS
 - WITH WRITTEN PERMISSION FROM SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. 3 DAYS
- NOTE: THE SWM FACILITY AND STORM DRAIN PIPES FOR SDP-98-129 MUST BE BUILT AND IN OPERATION PRIOR TO THE CONSTRUCTION OF STORM DRAIN FOR THIS SITE.
- NOTE: THE SWM FACILITY SHALL BE BROUGHT BACK TO ORIGINAL DESIGN SPECIFICATIONS PER SDP-98-143.

STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (03-10553)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 30), and (Sec. 34), temporary seeding (Sec. 50) and mulching (Sec. 50). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 Total Area of Site: 40.3768 Acres
 Area Disturbed: 30.31 Acres
 Area to be roofed or paved: 27.72 Acres
 Area to be vegetatively stabilized: 8.59 Acres
 Total Cut: 239,209 CU. YDS.
 Total Fill: 239,209 CU. YDS.
 Office waste/borrow area location.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.

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

BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL 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.

Michael J. Ertel #15537 12/6/00 DATE
 SIGNATURE OF ENGINEER MICHAEL J. ERTEL
 PRINT NAME BELOW SIGNATURE

BY THE DEVELOPER
 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 ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Wayne P. Klotz (Wayne P. Klotz) 07/21/00 DATE
 SIGNATURE OF DEVELOPER
 PRINT NAME BELOW SIGNATURE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division ce 12/10/00 DATE
 Chief, Division of Land Development 12/21/00 DATE
 Director, Department of Planning and Zoning 12/20/00 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 U.S. DEPARTMENT OF NATURAL RESOURCES CONSERVATION SERVICE 12/15/00 DATE

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

Howard S.C.D. 12/15/00 DATE

ProLogis
 The Global Distribution Solution
 Development Services
 Incorporated

5200 Eisenhower Avenue
 Second Floor
 Alexandria, Virginia 22304
 Phone: 703.751.9292
 Fax: 703.751.0787

MORRIS & RITCHIE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

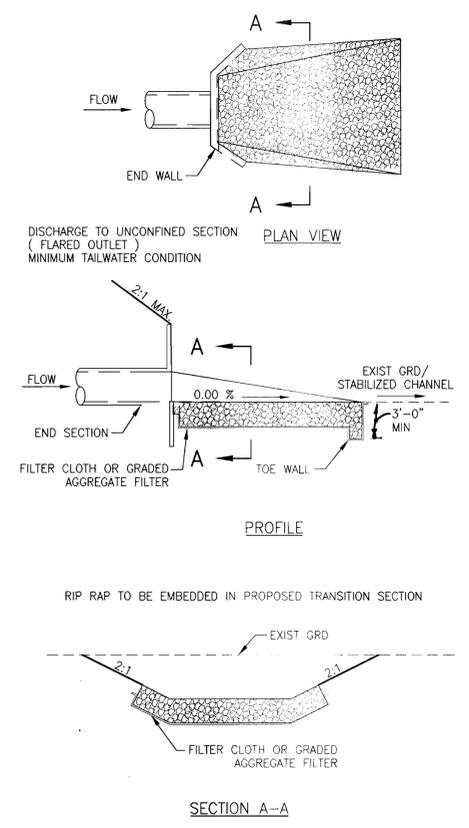
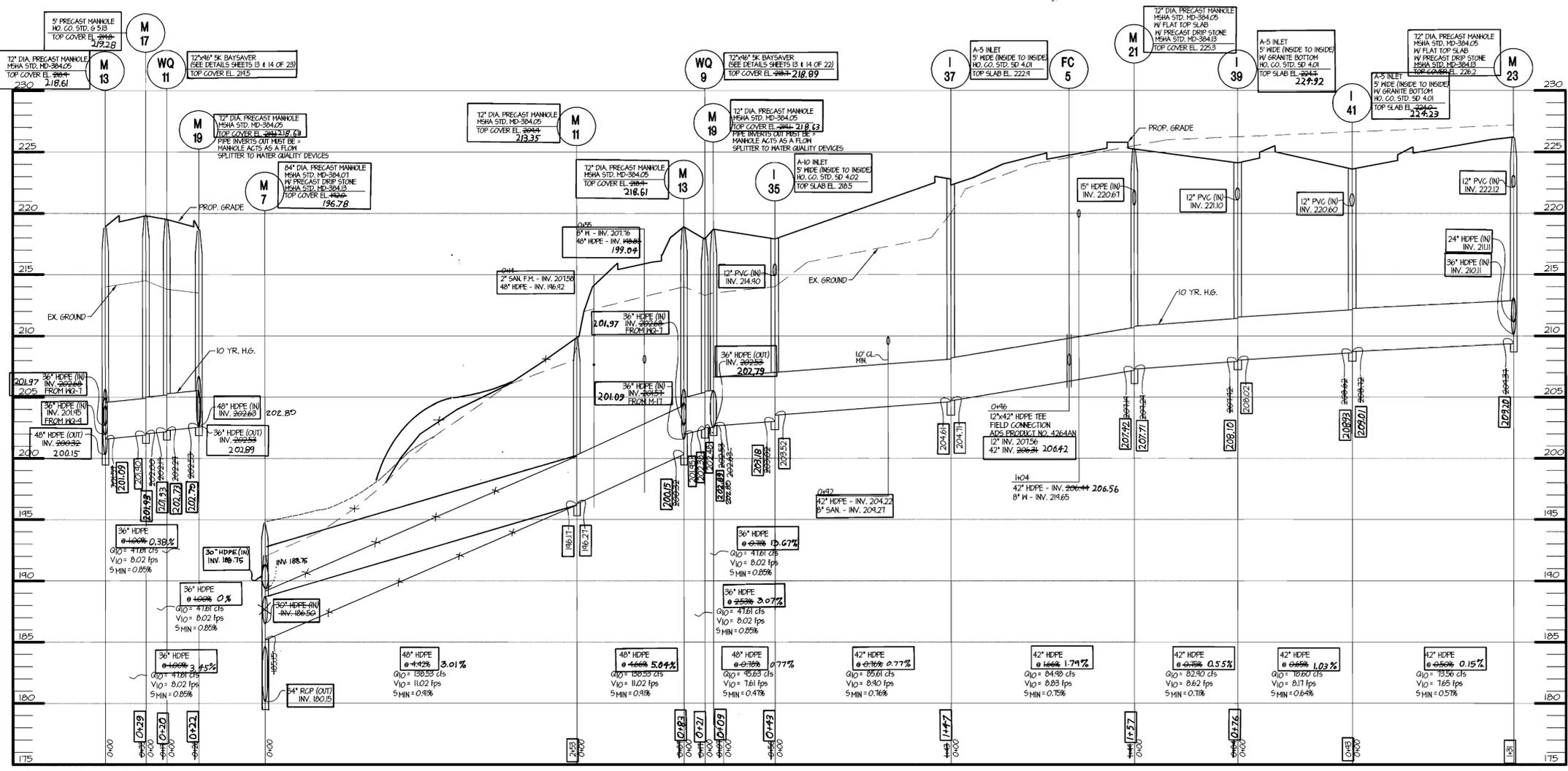
9090 JUNCTION DRIVE, SUITE 9
 ANNAPOLIS JUNCTION, MARYLAND 20701
 (410) 792-9792 or (301) 776-1690
 FAX (410) 792-7395

PROLOGIS PARK I-95
 PARCEL A-14
 SEDIMENT AND EROSION CONTROL PLAN

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:	SCALE:
07/24/00	REVISED STORM DRAIN AND SEWER	11354	1" = 40'
08/15/00	REVISED PER COUNTY COMMENTS		DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY		DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS		DESIGN BY: GLC/CAO
2/16/01	LOWER BLDG 1 6", 6POL AREA GRADING, PARCEL		REVIEW BY: MRA
12/12/01	AS-BUILT DRAWING		SHEET: 8 OF 23

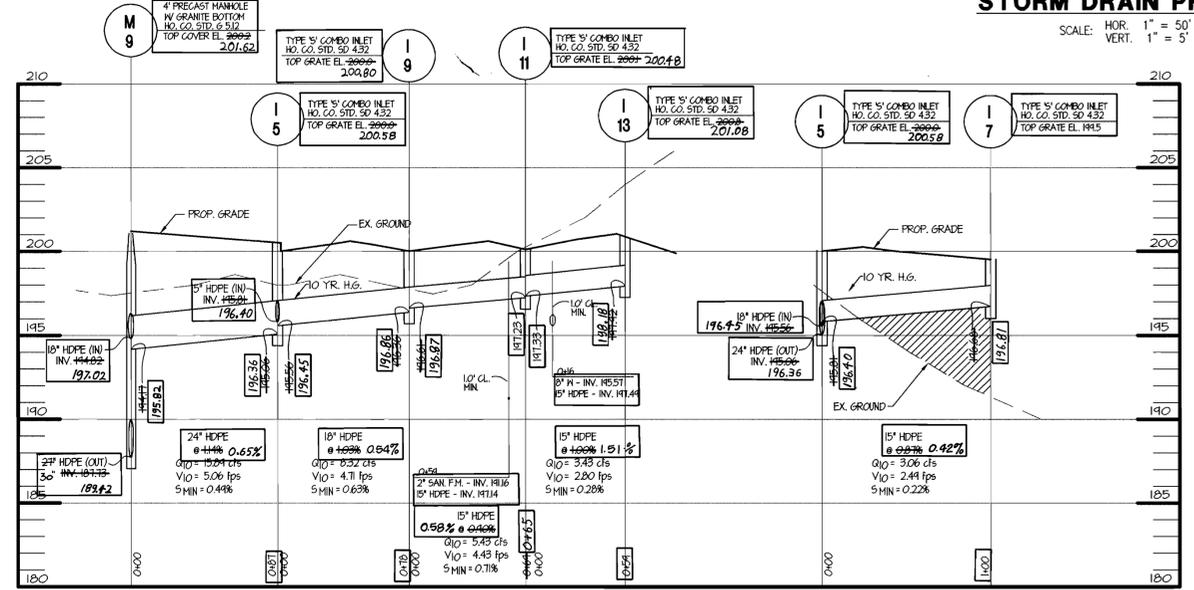
C-7



RIP RAP OUTFALL
NOT TO SCALE

STORM DRAIN PROFILE

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



STORM DRAIN PROFILE

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

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

RIP RAP OUTFALL SIZE						
OUTFALL	LENGTH	WIDTH	CLASS	d ₅₀	d	THICKNESS
E-1	12'	14'	I	9.5"	15"	19"
E-3	10'	12'	I	9.5"	15"	19"
E-5	30'	35'	I	9.5"	15"	19"

PERMIT INFORMATION CHART					
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES	Lot/Parcel#	PARCEL A-14
PLAT#	12428	Zoning	M-1	Tax Map	1
Water Code	CO4	Sewer Code	4020000	Elect. Distr.	8011.02

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING I	7091 TROY HILL DRIVE
BUILDING II	7101 TROY HILL DRIVE
BUILDING III	7111 TROY HILL DRIVE

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ENGINEERS • SURVEYORS • PLANNERS
2905 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20716
(301) 248-8802



ASBUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.
Date: 12-17-01
Signature: William J. Burrows
Reg. Prof. Engineer, MD #17263

ProLogis
The Global Distribution Solution
Development Services
Incorporated

5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division CE: *W. Burrows* DATE: 12/19/00
Chief, Division of Land Development: *C. Hamilton* DATE: 12/21/00
Director, Department of Planning and Zoning: *J. Smith* DATE: 12/29/00

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

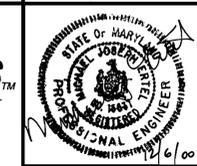
DEVELOPER: FAX NO: 703-751-0787
A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292
C. COMPANY: ProLogis
D. ADDRESS: 5200 Eisenhower Avenue 2nd floor
E. CITY: Alexandria STATE: VA ZIP: 22304

C-10



MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

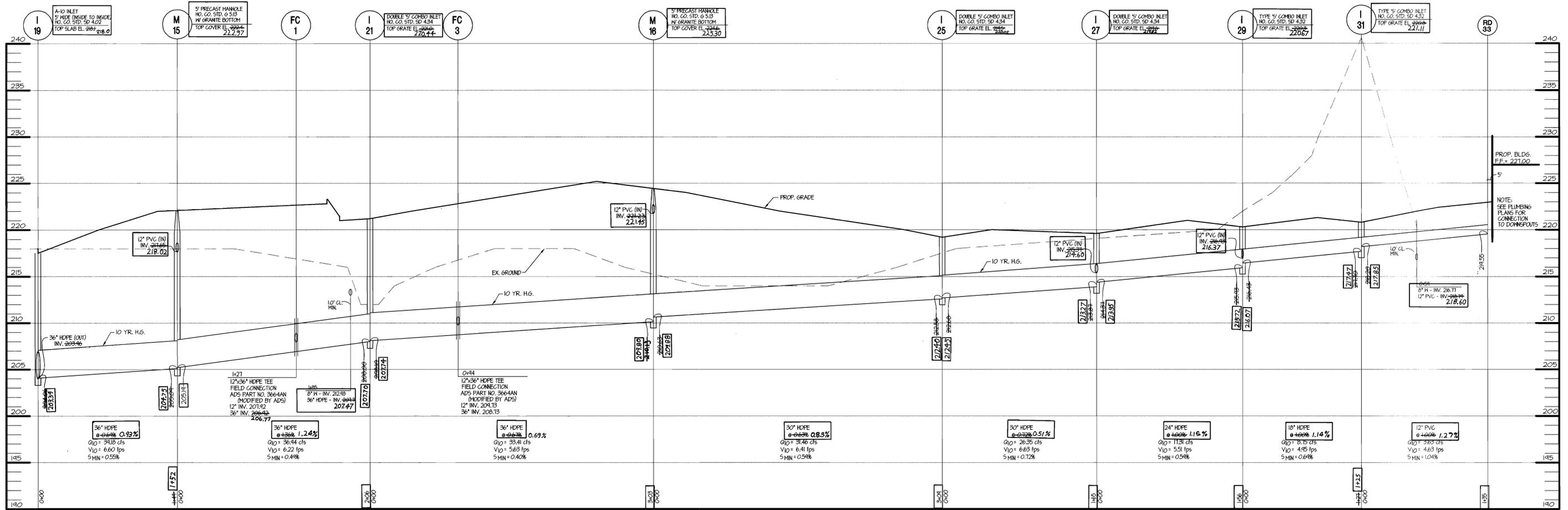


PROLOGIS PARK I-95

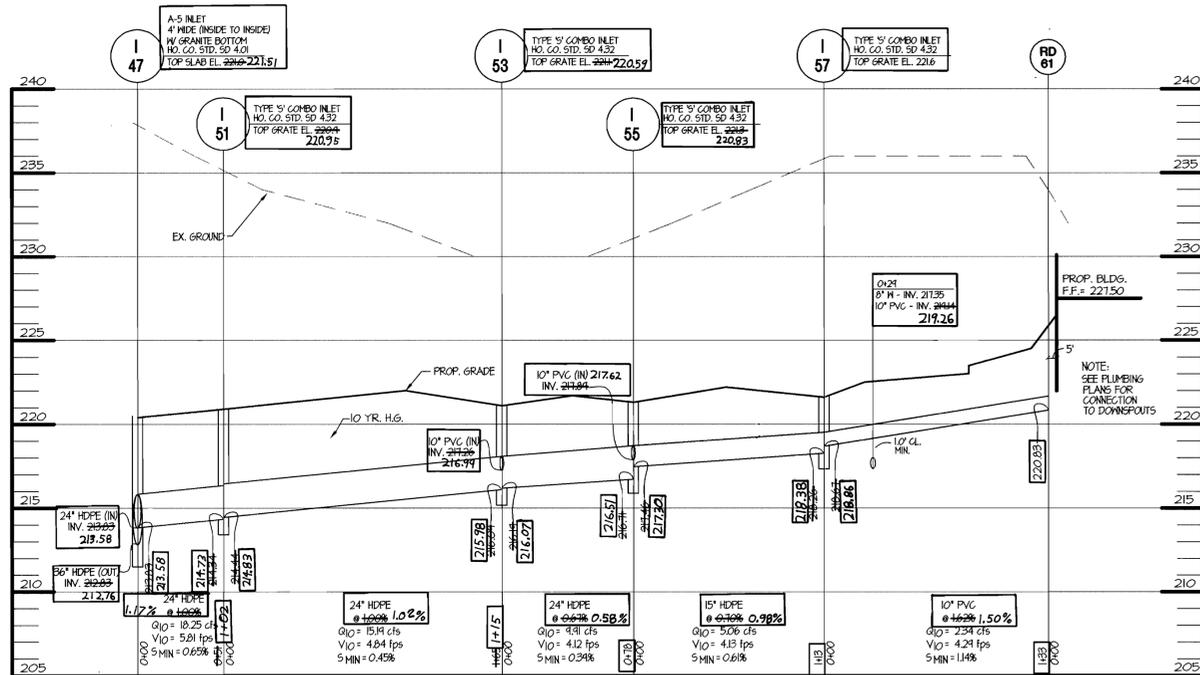
PARCEL A-14
STORM DRAIN PROFILES

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
07/24/00	REVISED STORM DRAIN	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: AS SHOWN
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG 1.6' PER PROLOGIS	DESIGN BY: GLC/CAO
2/16/01	Lower Bldg. 10', Spoil Area Grading.	DRAWN BY: GLC/CAO
12-14-01	Change drawing to show "asbuilt" conditions.	REVIEW BY: GLC/TFM

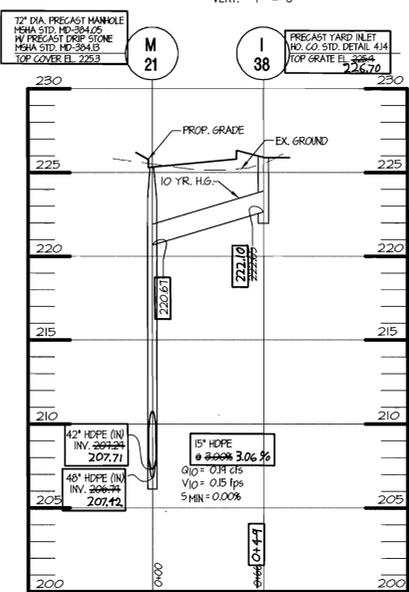


STORM DRAIN PROFILE



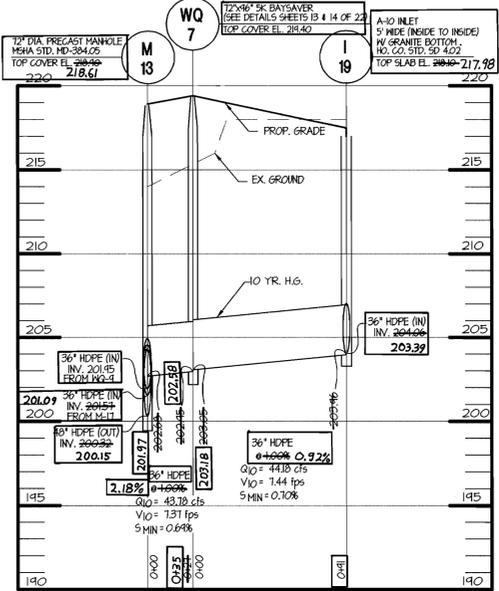
STORM DRAIN PROFILE

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



STORM DRAIN PROFILE

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



APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Burrows 12/20/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hamilton 12/20/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Frank Smith 12/20/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING-I LOT 1	7091 TROY HILL DRIVE
BUILDING-II LOT 2	7101 TROY HILL DRIVE
BUILDING-III LOT 3	7111 TROY HILL DRIVE

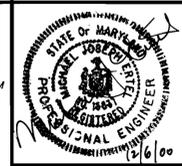
PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#	Parcel A-14	PLAT#	12428
Zoning	M-1	Tax Map	37
Elect Distr.	1	Census Tract	6011.02
Water Code	C04	Sewer Code	4020000

C-11



MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395



PROLOGIS PARK I-95

PARCEL A-14

STORM DRAIN PROFILES

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND



5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787



ASBUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.

12-17-01 *William J. Burrows*
Date *William J. Burrows*
Reg. Prof. Engineer, MD #17263

OWNER/DEVELOPER FAX NO: 703-751-0787

A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292

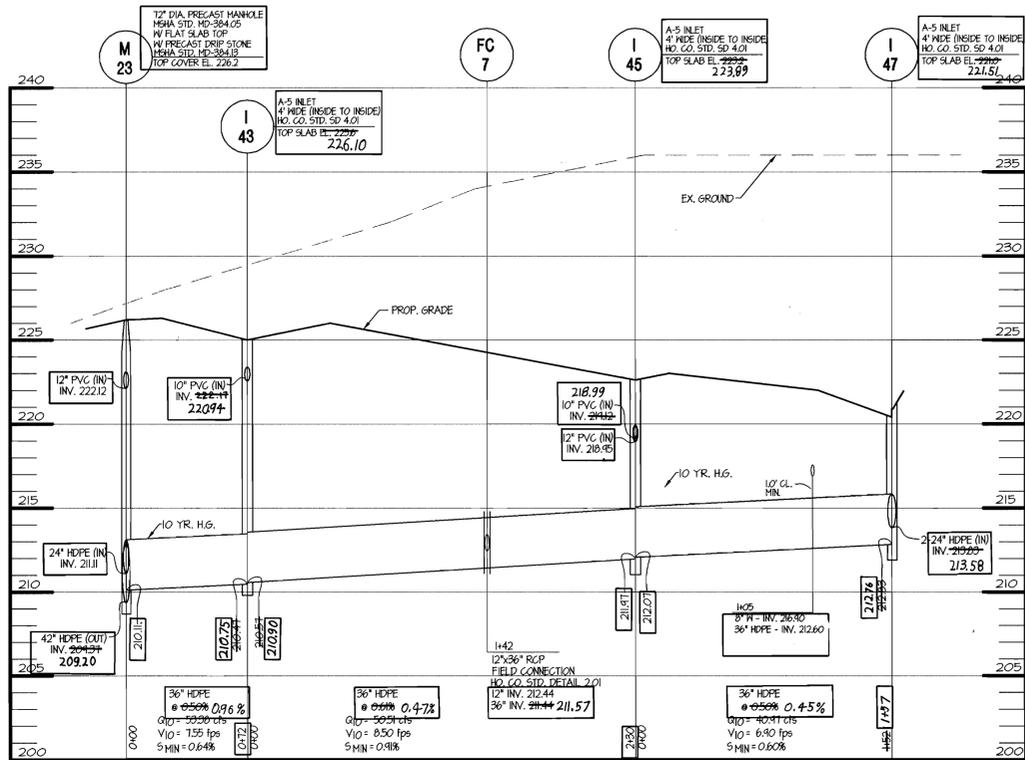
C. COMPANY: ProLogis

D. ADDRESS: 5200 Eisenhower Avenue 2nd floor

E. CITY: Alexandria STATE: VA. ZIP: 22304

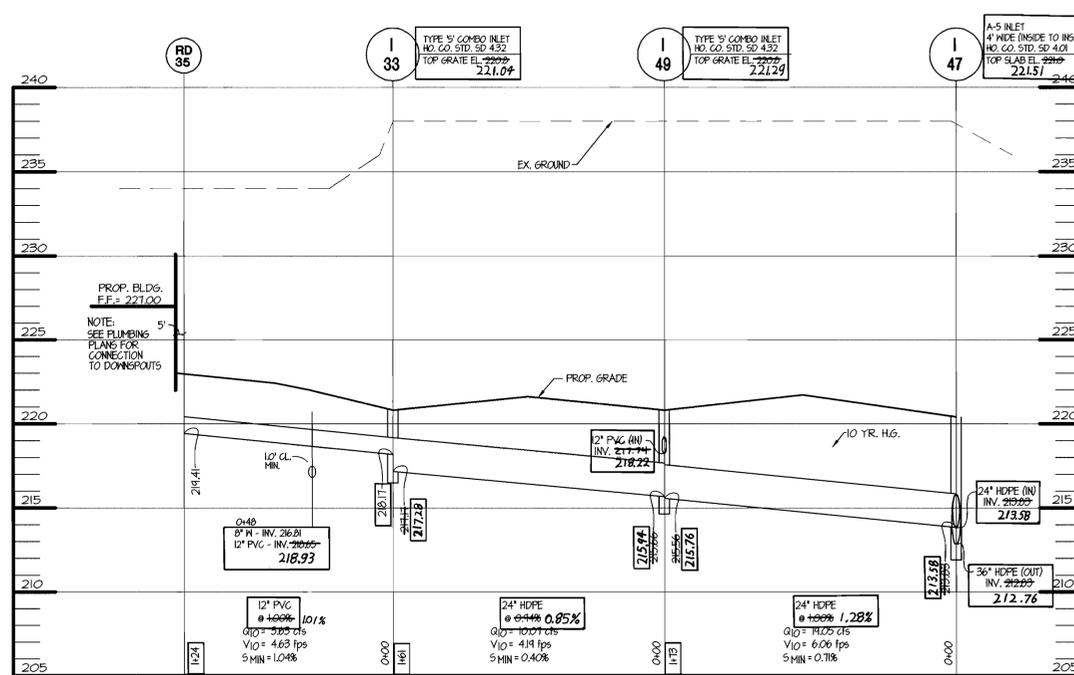
Landesign
ENGINEERS • SURVEYORS • PLANNERS
2005 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20716
(301) 249-8002

DATE	REVISIONS	JOB NO.:	SCALE:
07/24/00	REVISED STORM DRAIN	11354	AS SHOWN
08/15/00	REVISED PER COUNTY COMMENTS		DATE: 06/23/00
11/03/00	REVISED PER MRA COMMENTS		DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS		DESIGN BY: GLC/CAO
2/10/01	Lower Bldg 10", Spoil Area Grading, Parcel		REVIEW BY: GLC/TFM
12-18-01	Change drawing to show "asbuilt" condition		SHEET: 12 OF 23



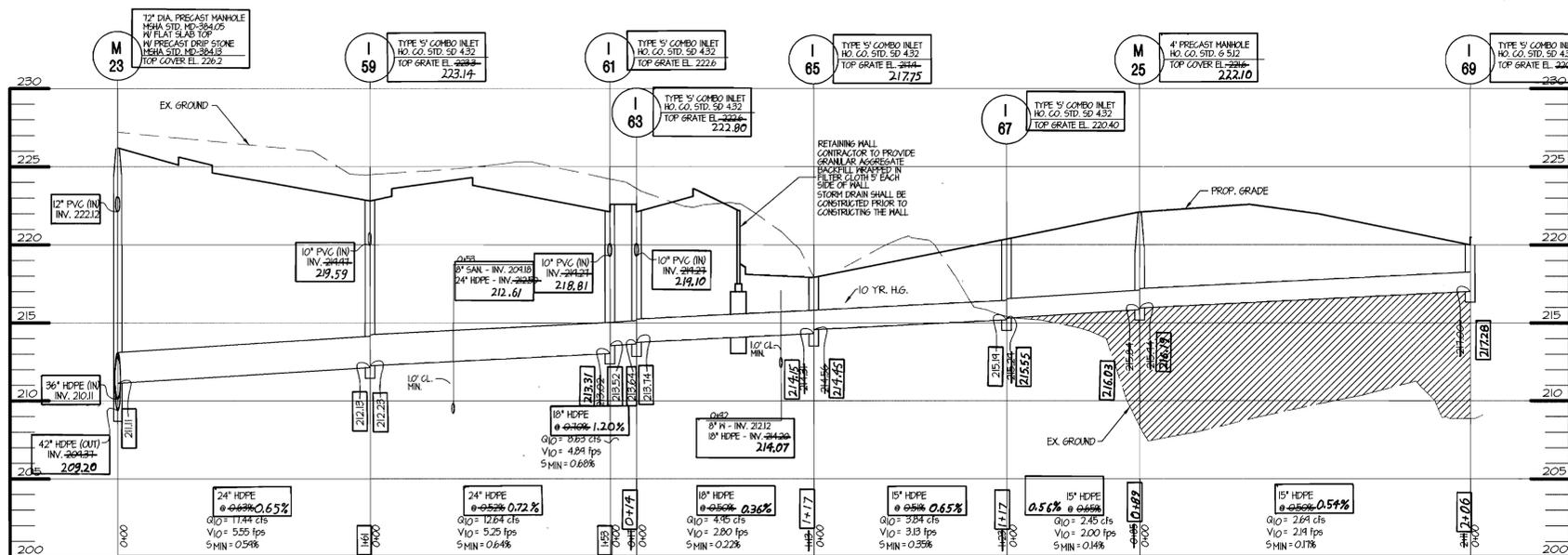
STORM DRAIN PROFILE

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



STORM DRAIN PROFILE

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

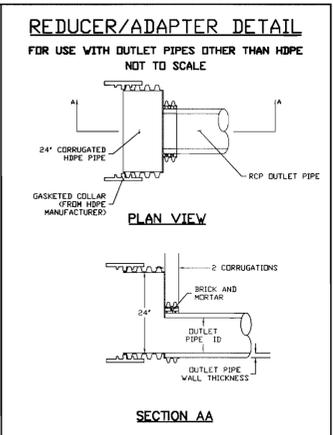
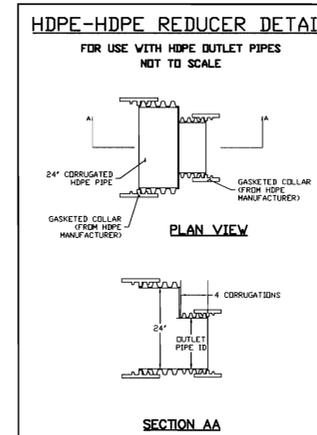


STORM DRAIN PROFILE

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

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

BAYSAYER SYSTEM DIMENSIONS			
DESCRIPTION	1K SYSTEM	3K SYSTEM	5K SYSTEM
SEPARATOR MANHOLE DIMENSIONS			
A PRIMARY MANHOLE DIAMETER	48"	60"	72"
B MANHOLE DEPTH BELOW OUTLET	8' - 0"	8' - 0"	8' - 0"
C MINIMUM FLUID DEPTH	8' - 3"	8' - 4 1/2"	8' - 6"
STANDARD SEPARATOR UNIT DIMENSIONS			
D SEPARATOR UNIT ID	24"	36"	48"
E SEPARATOR UNIT LENGTH	60"	78.2"	75.4"
F BYPASS PLATE LENGTH	34"	45"	45"
G WEIR/BYPASS PLATE THICKNESS	3/4"	3/4"	3/4"
H ELBOW AND CONNECTING PIPE DD	7.125"	10.75"	12.75"
I ELBOW LENGTH	48"	48"	48"
J WEIR HEIGHT ABOVE INVERT	3"	4"	6"
K BYPASS PLATE HEIGHT ABOVE INVERT	12"	18"	24"
L WIDTH OF WEIR AT BASE	3"	4 1/2"	6"
M OUTLET PIPE DIAMETER	M	M	M
N ELBOW INVERT HEIGHT ABOVE UNIT INVERT	4 1/2"	7 1/2"	11"
O ELBOW PIPE OVERHANG	12"	18"	24"
STORAGE MANHOLE DIMENSIONS			
P STORAGE MANHOLE DIAMETER	48"	60"	72"
Q MANHOLE DEPTH BELOW INLET/OUTLET	48"	48"	48"
R FLUID DEPTH	8' - 0"	8' - 0"	8' - 0"
S TOTAL STORAGE VOLUME	200 CF	300 CF	450 CF
SYSTEM DIMENSIONS AND ELEVATIONS			
T SEPARATOR MANHOLE COVER ELEVATION	T	T	T
U STORAGE MANHOLE COVER ELEVATION	U	U	U
V SEPARATOR MANHOLE FLOOR ELEVATION	V	V	V
W STORAGE MANHOLE FLOOR ELEVATION	W	W	W
X INLET PIPE ID AND MATERIAL	X1 X2	X1 X2	X1 X2
Y INLET PIPE INVERT	Y1 Y2	Y1 Y2	Y1 Y2
Z SEPARATOR UNIT INVERT	Z	Z	Z
AA OUTLET PIPE ID AND MATERIAL	AA	AA	AA
AB ELBOW INVERT ELEVATION	AB	AB	AB
AC CONNECTING PIPE INVERT ELEVATION	AC	AC	AC
AD CONNECTION PIPE SPACING	20"	24"	24"
AE STORAGE MANHOLE SIDE OFFSET	72 ± 6"	72 ± 6"	72 ± 6"
AF STORAGE MANHOLE DOWNSTREAM OFFSET	23"	31"	25"



C-12



ASBUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.
Date: 12-17-01
William J. Burrows
Reg. Prof. Engineer, MD #17263

ADDRESS CHART			
LOT/PARCEL#	STREET ADDRESS		
BUILDING I	7091 TROY HILL DRIVE		
BUILDING II	7101 TROY HILL DRIVE		
BUILDING III	7111 TROY HILL DRIVE		

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
PLAT#	12428	Zoning	M-1
Water Code	C04	Sewer Code	4020000

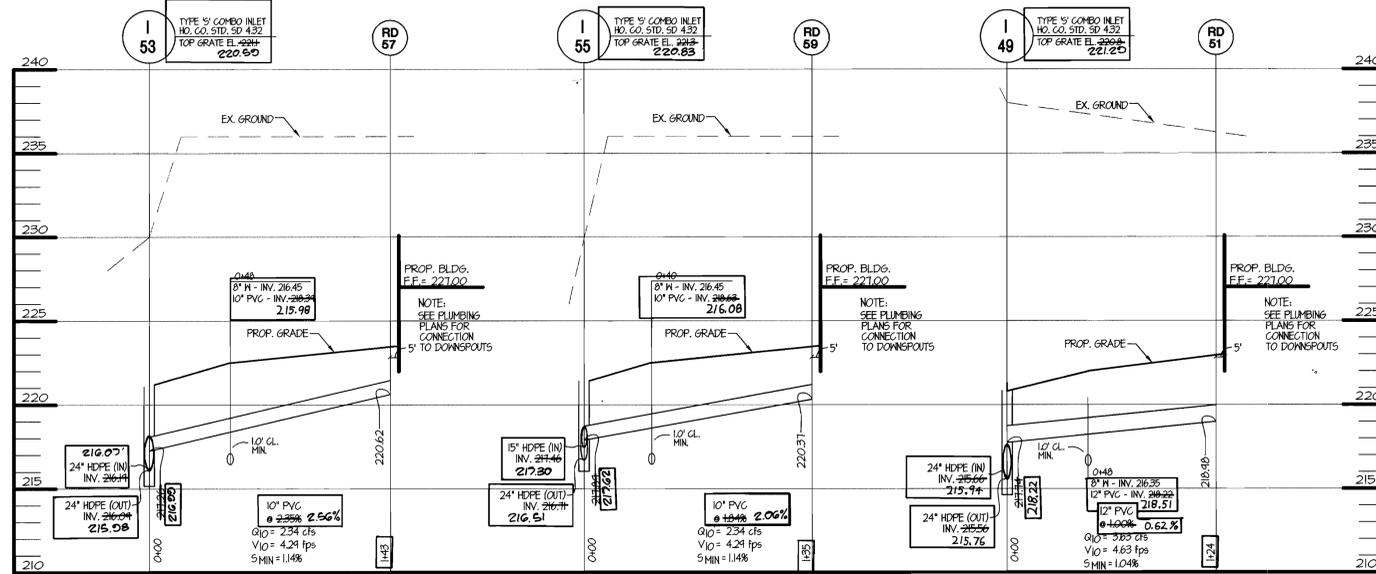
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development
 Director, Department of Planning and Zoning

ProLogis
The Global Distribution Solution
Development Services
Incorporated
5200 Eisenhower Avenue
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Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

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ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
9090 JUNCTION DRIVE SUITE 9
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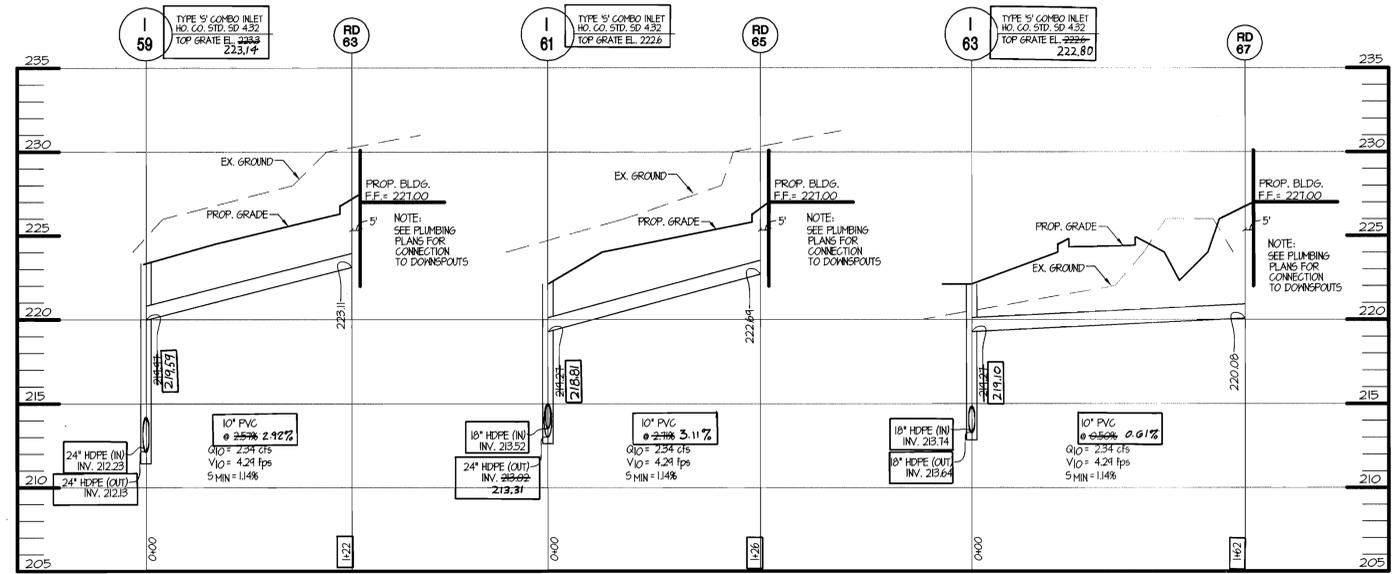
PROLOGIS PARK I-95
PARCEL A-14
STORM DRAIN PROFILES
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.: 11354
07/24/00	REVISED STORM DRAIN	SCALE: AS SHOWN
08/15/00	REVISED PER COUNTY COMMENTS	DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DESIGN BY: GLC/CAO
		REVIEW BY: GLC/TFM
		SHEET: 13 OF 23



ROOF DRAIN PROFILE

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



ROOF DRAIN PROFILE

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

SEQUENCE OF CONSTRUCTION AND INSPECTOR'S CHECK-OFF LIST FOR DUAL MANHOLE SEPARATORS

Stage (X = Approval Required)	Developer's/Engineer Approval		Inspector		Geotechnical Engineer	
	Initials	Date	Initials	Date	Initials	Date
1. Pre-Construction Meeting.	X		X			X
2. Install Manholes and associated storm drainage: a. Obtain approval of subgrade from Geotechnical Engineer. (Subgrade to have a minimum of 95% compaction)	X		X		X	
b. Installation of precast base, lower tank and lower piping.	X		X			
c. Backfill and min. 95% compaction around lower tank and lower piping.					X	
d. Installation of precast middle section(s) with separator unit and remaining piping.	X		X			
e. Installation of precast top slab.	X		X			
f. Installation of adjustment rings and frame and cover.	X		X			
g. Installation of flowable fill or concrete backfill.					X	
3. Backfilling operation and compaction.					X	
4. Site is permanently stabilized. Sediment control measures removed and all sediment and debris removed from dual manhole separators.			X			
5. Final inspection.			X			

NOTE:
BAYS SAVERS ARE TO BE INSTALLED WITH THE STORM DRAIN SYSTEM AND WILL FUNCTION AS SECONDARY SEDIMENT CONTROL DEVICES. UPON COMPLETION OF SITE STABILIZATION, EACH BAYS SAVER SYSTEM SHALL BE FLUSHED CLEAN & THE MANHOLES CLEANED OUT AND REFILLED WITH CLEAN WATER.

BAYS SAVER MAINTENANCE

BAYS SAVER SYSTEMS MUST BE INSPECTED AND MAINTAINED PERIODICALLY. INSPECTION IS MADE BY CHECKING THE DEPTH OF SEDIMENT IN EACH MANHOLE WITH A GRADE STICK OR SIMILAR DEVICE. MAINTENANCE IS REQUIRED WHEN THE SEDIMENT DEPTH IN EITHER MANHOLE EXCEEDS 2 FEET. MINIMUM INSPECTION IS REQUIRED TWICE A YEAR TO MAINTAIN OPERATION AND FUNCTION OF BAYS SAVER.

MAINTENANCE CONSISTS OF THE FOLLOWING:

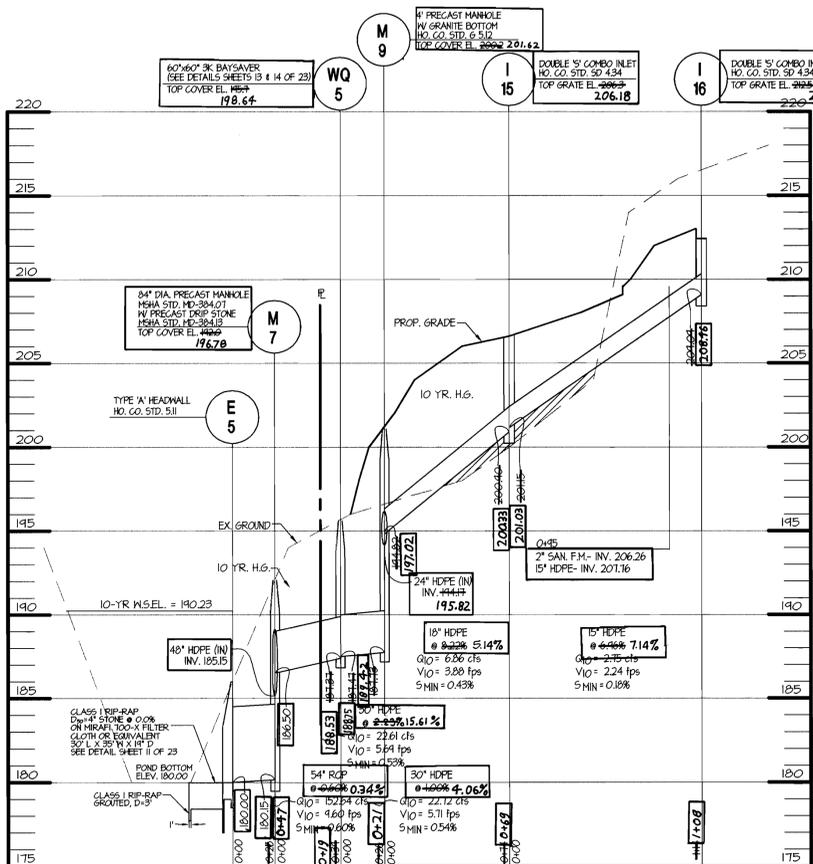
- A. CONTAMINANT STORAGE MANHOLE**
 - REMOVE THE ENTIRE VOLUME OF THE CONTAMINATED WATER BY VACUUM TRUCK.
 - CLEAN THE MANHOLE WALLS AND FLUSH OUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.
- B. PRIMARY SEPARATION MANHOLE**
 - USING A SUBMERSIBLE PUMP, PUMP THE CLEAN WATER FROM THE CENTER OF THE MANHOLE DIRECTLY INTO THE EMPTY STORAGE MANHOLE UNTIL THE WATER LEVEL FALLS TO 1 FOOT ABOVE THE SEDIMENT LAYER.
 - REMOVE THE SETTLED SEDIMENT AND REMAINING WATER BY VACUUM TRUCK.
 - CLEAN THE MANHOLE WALLS AND FLUSH OUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.
 - CONTAMINATED MATERIAL REMOVED FROM THE MANHOLES MUST BE DISPOSED OF RESPONSIBLY AND LEGALLY BY THE OPERATOR OF THE VACUUM TRUCK.

GENERAL CONSTRUCTION NOTES

- ALL WORK MUST BE DONE WITH REGARD FOR THE SAFETY OF THE CONSTRUCTION CREW.
- ALL WORK AND MATERIALS MUST COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS.
- KNOW THE LOCATION AND DEPTH OF ANY UNDERGROUND UTILITIES BEFORE EXCAVATION BEGINS.

BAYS SAVER INSTALLATION INSTRUCTIONS

- EXCAVATION MUST PROVIDE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO SEPARATOR STRUCTURE ON SOLID GROUND AS VERIFIED BY A GEOTECHNICAL ENGINEER.
- VERIFY THE SUBGRADE ELEVATION AGAINST THE MANHOLE DIMENSIONS AND CONNECTING STORM DRAIN INVERTS.
- MAKING SURE THE BASES ARE LEVEL AND THE STORAGE MANHOLE OPENINGS ARE ALIGNED WITH THE SEPARATOR UNIT. INSTALL PRIMARY AND STORAGE MANHOLES. INSTALL RUBBER GASKETS ON BASE UNITS AND COAT WITH LUBRICATING GREASE. INSTALL ADDITIONAL MANHOLE SECTIONS AS REQUIRED. SEAL LIFT HOLES WITH NON-SHRINK GROUT.
- BACKFILL BASE SECTIONS OF MANHOLES TO INVERT OF STORAGE MANHOLE, CONNECTING PIPES. USING APPROVED BACKFILL MATERIAL. BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL AND COMPACTION SHOULD BE MONITORED BY A GEOTECHNICAL ENGINEER.
- INSTALL BAYS SAVER SEPARATOR UNIT AND CONNECTING PIPES. SEAL ALL CONNECTING JOINTS AND INSTALL SEPARATOR UNIT/STORM DRAIN JOINT COLLAR. CUT EXCESS LENGTH OFF CONNECTING PIPES INSIDE STORAGE MANHOLE.
- BACKFILL SEPARATOR UNIT AND MANHOLES. AREAS NOT ACCESSIBLE TO COMPACTION EQUIPMENT MUST BE BACKFILLED WITH LEAN CONCRETE OR FLOWABLE FILL.
- INSTALL AND SET MANHOLE COVER GRADE ADJUSTMENT RINGS AS NECESSARY.
- INSTALL AND SET MANHOLE FRAME AND COVER UNITS.



STORM DRAIN PROFILE

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

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



Landesign
ENGINEERS • SURVEYORS • PLANNERS
2905 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20716
(301) 246-8802

ASBUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.
Date: 12-17-01
William J. Burrows
Reg. Prof. Engineer, MD #17263

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION 06 12/16/00
CHIEF, DIVISION OF LAND DEVELOPMENT 12/21/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING 12/20/00

DIVNER/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

ProLogis
The Global Distribution Solution
Development Services
Incorporated

5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING-I LOT 1	7091 TROY HILL DRIVE
BUILDING-II LOT 2	7101 TROY HILL DRIVE
BUILDING-III LOT 3	7111 TROY HILL DRIVE

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#		Parcel A-14	
PLAT#	12428	Zoning	M-1
		Tax Map	37
		Elect. Distr.	1
		Census Tract	6011.02
Water Code	CO4	Sewer Code	4020000

C-13



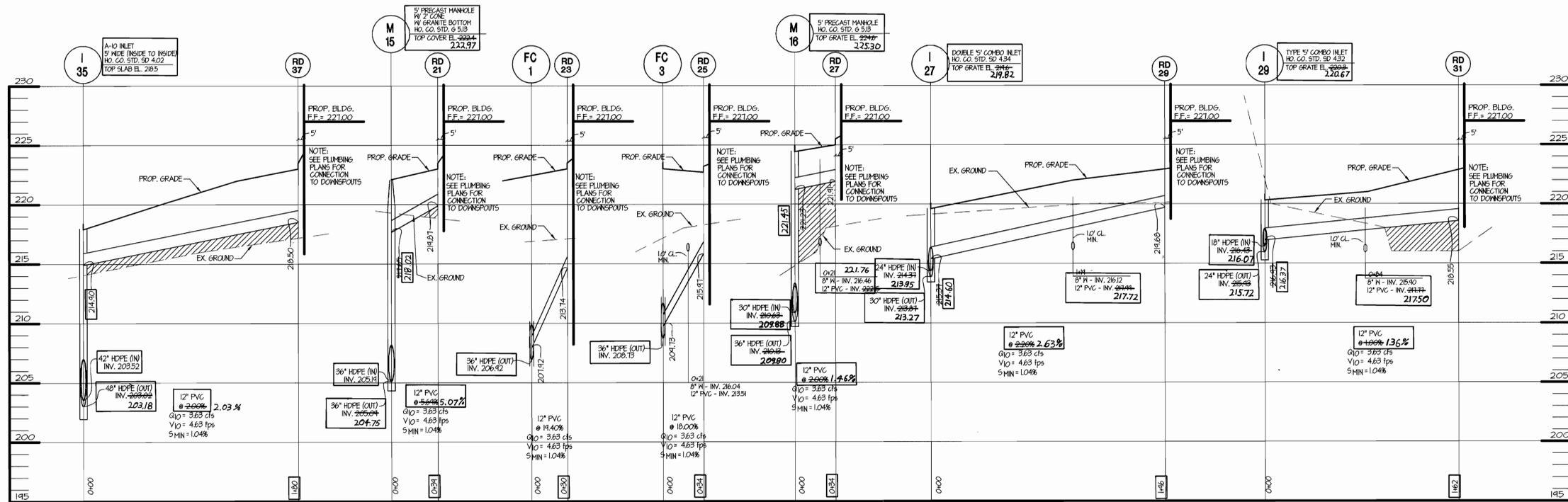
MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

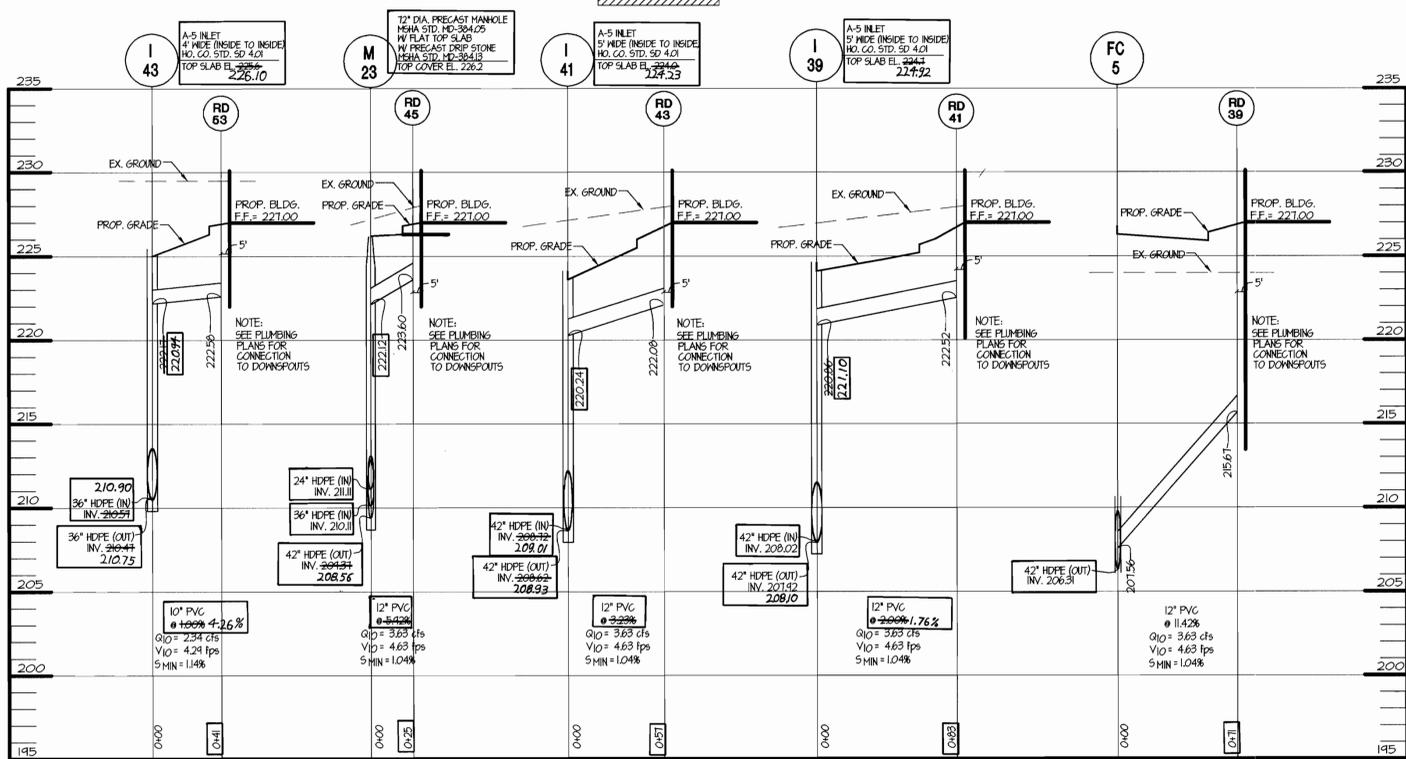


PROLOGIS PARK I-95
PARCEL A-14
STORM DRAIN PROFILES
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

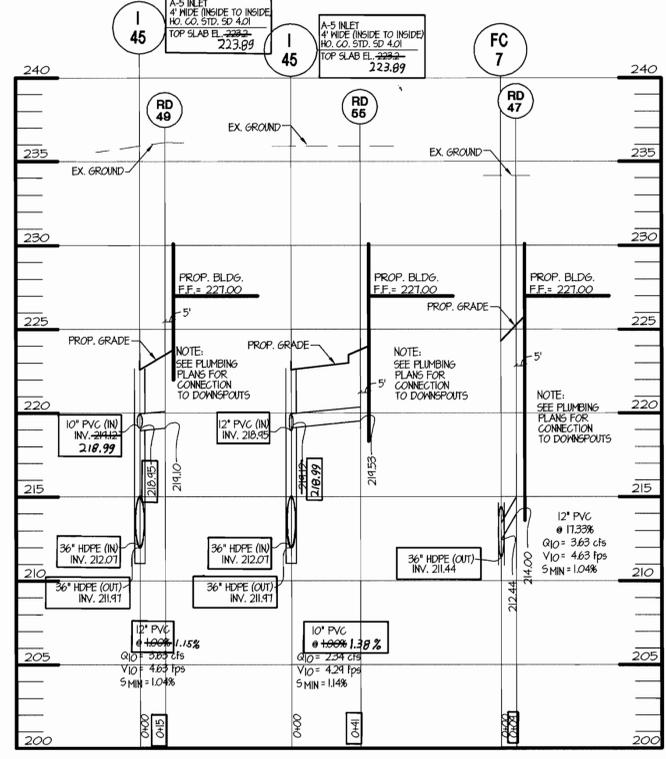
DATE	REVISIONS	JOB NO.:
07/24/00	REVISED STORM DRAIN	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: AS SHOWN
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DRAWN BY: GLC/CAO
2/16/01	Lower Bldg. 16", Spoil Area Grading.	DESIGN BY: GLC/CAO
12-14-01	Change drawings to show "asbuilt" conditions	REVIEW BY: GLC/TFM



ROOF DRAIN PROFILE
 SCALE: HOR. 1" = 50'
 VERT. 1" = 5'



ROOF DRAIN PROFILE
 SCALE: HOR. 1" = 50'
 VERT. 1" = 5'



ROOF DRAIN PROFILE
 SCALE: HOR. 1" = 50'
 VERT. 1" = 5'

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING # Lot 1	7091 TROY HILL DRIVE
BUILDING # Lot 2	7101 TROY HILL DRIVE
BUILDING # Lot 3	7111 TROY HILL DRIVE

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#		Parcel A-14	
PLAT#	1242B	Zoning	M-1
		Tax Map	37
		Elect Distr.	1
		Census Tract	6011.02
Water Code	C04	Sewer Code	4020000

C-14



MORRIS & RITCHIE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9
 ANNAPOLIS JUNCTION, MARYLAND 20701
 (410) 792-9792 or (301) 776-1690
 FAX (410) 792-7395



PROLOGIS PARK I-95

PARCEL A-14
STORM DRAIN PROFILES

ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William J. Burrows
 CHIEF, DEVELOPMENT ENGINEERING DIVISION *cc* 12/18/00 DATE

Cindy Hamilton
 CHIEF, DIVISION OF LAND DEVELOPMENT 12/18/00 DATE

Paul Roberts
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING 12/20/00 DATE



AS-BUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.

12-17-01 Date *William J. Burrows*
 William J. Burrows
 Reg. Prof. Engineer, MD #17263

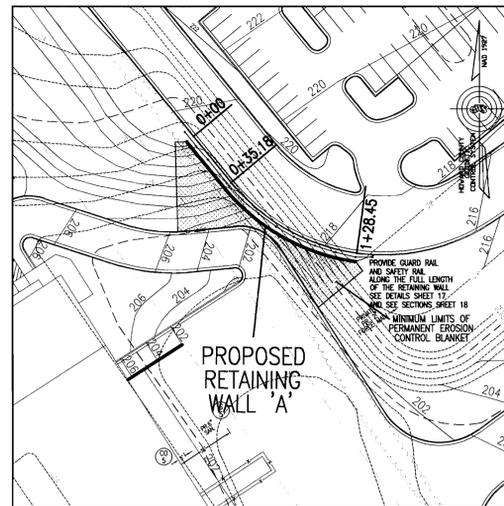
DRAWER/DEVELOPER

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



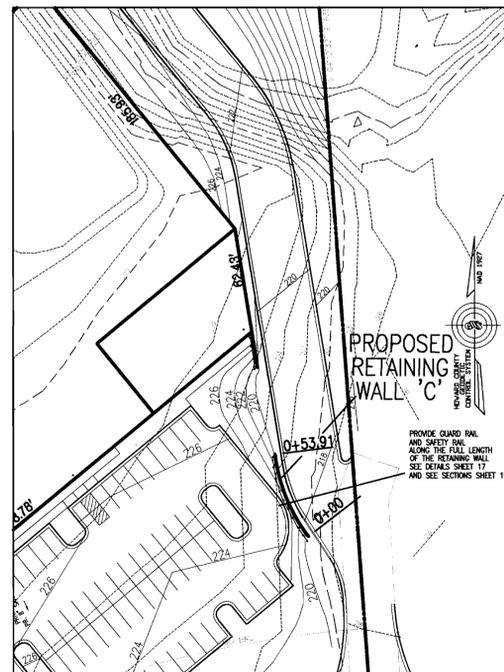
5200 Eisenhower Avenue
 Second Floor
 Alexandria, Virginia 22304
 Phone: 703.751.9292
 Fax: 703.751.0787

DATE	REVISIONS	JOB NO.:
07/24/00	REVISED STORM DRAIN	11354
08/15/00	REVISED PER COUNTY COMMENTS	SCALE: AS SHOWN
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
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2/16/01	Lower Bldg 16", Spoil Area Grading.	DESIGN BY: GLC/CAO
12-14-01	Change drawings to show "asbuilt" condition.	REVIEW BY: GLC/TFM
		SHEET: 15 OF 23



RETAINING WALL A LOCATION PLAN

SCALE: 1" = 50'



RETAINING WALLS B LOCATION PLAN

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. Williams 12/10/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Candy Hambleton 12/29/01
 CHIEF, DIVISION OF LAND DEVELOPMENT
Paul B. Smith 12/20/00
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING

SEGMENTAL RETAINING WALL SPECIFICATIONS

PART 1 - GENERAL

1.1 Work includes furnishing and installing segmental retaining wall units, geogrid reinforcement, wall fill, and backfill to the lines and grades shown on the construction drawings and as specified herein. The contract also includes the furnishing and installing all appurtenant materials, equipment, and labor required for construction of the geogrid reinforced, segmental retaining wall.

1.2 REFERENCE STANDARDS

- A. ASTM C90-75 (1981 rev) - Hollow Load Bearing Masonry Units
- B. ASTM C140-75 (1981 rev) - Sampling and Testing Concrete Masonry Units
- C. ASTM C145-75 (1981 rev) - Solid Load Bearing Concrete Masonry Units
- D. Geosynthetic Research Institute (GRI), GRI-GG4 - Determination of Long Term Design Strength of Geogrids
- E. ASTM D 638 - Test Method for Tensile Properties of Plastic
- F. ASTM D 1248 - Specification of Polyethylene Plastics Molding and Extrusion Materials
- G. ASTM D 4218 - Test Method for Carbon Black Content in Polyethylene Compounds by the Muffle Furnace Technique
- H. ASTM D 3034 - Specification for Polyvinyl Chloride (PVC) Pipe

1.3 DELIVERY, STORAGE AND HANDLING

- A. Contractor should check the materials upon delivery to assure that proper material has been received.
- B. Contractor should prevent excessive mud, wet cement, epoxy, and like materials which may affix themselves, from coming in contact with the materials.
- C. Geogrids should be stored above -20 degrees F.
- D. Contractor should protect the materials from damage. Damaged material should not be incorporated into the reinforced retaining wall.

PART 2 - PRODUCTS

2.1 DEFINITIONS

- A. Geogrid is a high density polyethylene grid, specifically fabricated for use as a soil reinforcement.
- B. Concrete retaining wall units are as detailed on the drawings and as specified herein.
- C. Geosynthetic Drainage Composites are polyethylene net structure with non-woven geotextiles bonded to both sides.
- D. Erosion Control Blankets consist of a web of polyolefin fibers securely bounded by polyolefin threads between two high strength polyolefin mats.
- E. Backfill is the soil which is used as fill for the reinforced soil mass.
- F. Foundation soil is the in-situ soil or controlled compacted fill placed below the bottom of the retaining wall and geogrid zone.

2.2 MATERIALS

The contractor should submit manufacturer's catalog and samples of the proposed materials for approval by the project geotechnical engineer a minimum of seven days before the start of construction. Materials should be transported to the site only after approval of the proposed materials by the project geotechnical engineer.

A. Concrete Units

- 1. Masonry units should be Keystone Standard Retaining Wall Units. Substitution of other concrete units including Meso Standard Units may be allowed with the prior approval of the Geotechnical Engineer.
- 2. Concrete wall units should have a minimum 28 day compressive strength of 3000 psi, in accordance with ASTM C-90. The concrete should have adequate freeze/thaw protection with a maximum moisture absorption of 6 to 8 percent.
- 3. Exterior dimensions may vary. Units are required to have a minimum of one square foot of face area each.
- 4. Units should have angled sides and capable of attaining concave and convex alignment curves in accordance with manufacturer's recommendations.
- 5. Units should be interlocked with non-corrosive reinforced fiberglass pins.
- 6. Units should be interlocked as to provide a maximum of 1-1/4 inch of setback per block.

B. Leveling Pad

Material for leveling pad/footing should consist of compacted free-draining coarse aggregates meeting the requirements of ASTM #57 or Graded Aggregate Base (GAB) per Maryland State Highway Administration Standard Specifications for Construction and Materials. A minimum of 6 inches deep and 36 inches wide compacted leveling pad is required.

C. Fiberglass Connecting pins

- 1. Thermoset isophthalic polyester resin pultruded fiberglass reinforcements rods, minimum one-half inch in diameter.
- 2. Pins should have a minimum flexural strength of 128,000 psi and short beam shear of 6400 psi.
- 3. For substitute concrete units, use of other compatible connector system may be allowed with the prior approval of the Geotechnical Engineer.

D. Geogrid

Geogrid should be Tensor UX 1,400 and UX 1,500 or equivalent as approved by the geotechnical engineer. The geogrid should have a long term design strength of 1,333 pounds/foot for UX 1,400 and 2,190 pounds/foot for UX 1,500 geogrid.

E. Reinforced Backfill

Reinforced backfill soils should be non-plastic, controlled fill meeting the requirements of AASHTO A-2-4 or more granular. Use of on-site material with AASHTO Class A-4 may be allowed with the prior approval of the project geotechnical engineer. The finer clayey (A-5, A-6 or A-7) materials must be stabilized with five percent lime for use as Reinforced Backfill.

F. Controlled Fill

Controlled Fill soils to be placed outside the Reinforced Backfill area and where specified should be soils meeting the requirements of AASHTO A-2-4 or more granular. Use of on-site material with AASHTO Class A-4 may be allowed with the prior approval of the project geotechnical engineer. The AASHTO Class A-5, A-6 or A-7 materials must be stabilized with five percent lime for use as Controlled Fill.

G. Drainage Pipe

The drainage pipes should be perforated or slotted PVC pipe manufactured in accordance with ASTM D-3034.

H. Drainage Composite

Drainage Composite should be Tensor 4205 as manufactured by The Tensor Corporation or Miradrain 5000 manufactured by Mirafi Geosynthetic Products or other drainage composites approved by the project geotechnical engineer.

I. Erosion Control Blanket

Erosion Control Blanket should be Tensor TB 1000 manufactured by The Tensor Corporation or approved equivalent.

J. Filter Fabric

Filter Fabric should be non-woven, polypropylene geotextile, 140 N manufactured by Nicolon Mirafi Group or approved equivalent.

PART 3 - EXECUTION

A. Excavation

- 1. The contractor should excavate to the lines and grades shown on the construction drawings. Under no circumstances should the excavation lines and grades be exceeded, except with owner's approval. The contractor should protect the excavation from sloughing by placing a membrane over the face of the excavation.
- 2. Excavations should be sloped or otherwise supported in accordance with Occupation Safety and Health Administration (OSHA) and other local and state regulations.

B. Foundation Subgrade Preparation

- 1. Foundation soil should be excavated as required for installation of leveling pad, geogrid and other elements and as shown on the construction drawings.
- 2. Foundation soil should be examined by the Engineer to assure that the actual foundation soil strength meets or exceeds assumed design strength. Soils not meeting required strength should be removed and replaced with controlled, compacted material.
- 3. Over-excavated areas should be filled with select and approved material and compacted to 92 percent of maximum dry density in accordance with the Modified Proctor, ASTM D-1557.
- 4. Allowable bearing pressure for natural and controlled, compacted fill soils should be at least 3,500 psf for the retaining wall.
- 5. The exposed foundation subgrade should be proofrolled with a loaded dump truck. Any soft or unstable areas identified during proofrolling should be overexcavated and backfilled with Controlled Fill.
- 6. The existing fill within the bearing zone of the retaining walls (including the Concrete Unit, Leveling Pad, and the Reinforced Backfill) should be evaluated by a Maryland Registered Geotechnical Engineer to verify their competency. The existing fill determined to be unsuitable should be excavated and replaced with approved Controlled Fill.
- 7. Fill required to establish the sloping surface in front of the wall should consist of Controlled Fill and should be placed, compacted and field tested in accordance with the requirements specified herein.

C. Leveling Pad

- 1. The leveling pad should be placed as shown on the construction drawings with a minimum thickness of 6 inches.
- 2. Leveling pad materials should be installed undisturbed in-situ soils or controlled, compacted backfill.
- 3. Leveling Pad should be prepared to insure complete contact of retaining wall unit with base. Gaps should not be allowed.

D. Unit Installation

- 1. First course of concrete wall units should be placed on the footing. The units should be checked for level and alignment. The first course is the most important to insure accurate and acceptable results.
- 2. Insure that units are in full contact with base.
- 3. Units are placed side by side for full length of wall alignment. Alignment may be done by means of a string line or offset from base line.
- 4. Install fiberglass connecting pin.
- 5. Lay up each course insuring that the connecting pins are inserted through front slot of the unit, and into the receiving slot in the course beneath. Repeat procedure to the extent of wall height.
- 6. At the end of each course where the wall changes elevation, units should be turned into the backfill. Units should be laid as to create the minimum radius possible. Unless otherwise shown on the drawings, a minimum of one unit should be installed into the grade. Only the front face of the units should be visible from the side of the wall.
- 7. Standard Units should be used to make convex and concave curves in accordance with manufacturer's recommendations.
- 8. Cap units should be installed and bonded with construction adhesive or epoxy cement as required by manufacturer.
- 9. Contractor should provide positive drainage for the back of the retaining wall during construction.

E. Geogrid Installation

- 1. All utilities in the vicinity of any retaining wall or geogrid reinforcement must be installed and properly backfilled prior to placing the geogrid soil reinforcement or constructing the wall.
- 2. The geogrid soil reinforcement should be laid horizontally on compacted backfill, connected to the concrete wall units, floor and over the fiberglass connecting pin, pull taut, and anchor before backfill is placed on the geogrid.
- 3. Slack in the geogrid at the wall unit connections should be removed in a manner, and to such a degree, as approved by the Engineer.
- 4. Geogrid should be laid at the proper elevation and orientation as shown on the construction drawings or as directed by the Engineer.
- 5. Correct orientation (roll direction) of the geogrid should be verified by the Contractor.
- 6. Geogrid should be secured in-place with staples, pins, sand bags, or backfill as required by fill properties, fill placement procedures, or weather conditions, or as directed by the Engineer.
- 7. Overlaps
 - a. Uniaxial geogrid does not need to be overlapped in the across the roll direction, except to contain the fill of the slope face when wrap-around facing is used. Uniaxial grid should be overlapped 48" in the rolled direction.
 - b. A layer of soil a minimum of 4 inches in thickness should be spread between uniaxial geogrid layers in the area to be overlapped, or as directed.
- F. Fill Placement

- 1. Wall backfill material should be placed in no more than 8-inch lifts and compacted to 92 percent of the Modified Proctor (ASTM D-1557).
- 2. Backfill should be placed, spread, and compacted in such a manner that minimizes the development of wrinkles in and/or movement of the geogrid.
- 3. Only hand-operated compaction equipment should be allowed within 4 feet of the wall face.
- 4. Backfill should be placed from the wall outward to insure that the geogrid remains taut.
- 5. Tracked construction equipment should not be operated behind or above the wall.
- 6. Rubber-tired equipment may pass over the geogrid reinforcement at slow speeds, less than 10 MPH. Sudden braking and sharp turning should be avoided.
- 7. Place filter fabric between the unit core fill and the reinforced backfill as shown on plans. The filter fabric should be embedded a minimum of two feet into the reinforced fill.
- 8. The finished sloping surface on the toe side of Retaining Walls A and B should be protected by installing the permanent erosion control blanket and seeding in accordance with project requirements.

G. DRAINAGE

- 1. Drainage fill should be placed behind the wall to the limits shown. The drainage fill should be a minimum of 12-inches thick. The drainage fill should be ASTM #57 stone. The drainage fill should be wrapped in filter fabric (Mirafi 140N or equal) as shown on the drawings.
- 2. Positive drainage should be maintained during and after construction. Soils within the reinforced zone that become wet during construction should be dried to optimum moisture or removed.
- 3. Back drainage is required to prevent the soil backfill from becoming saturated. THIS WALL WAS NOT DESIGNED TO RESIST HYDROSTATIC PRESSURE.
- 4. Install the drainage composite, perforated drainage pipes, lateral drainage pipes incrementally along with installation of concrete units and placement of fill.

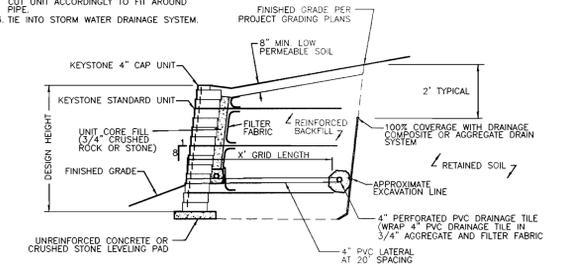
PART 4 - CONSTRUCTION OBSERVATION AND TESTING

- A. The required leveling pad subgrade bearing capacity should be certified by a Maryland Registered Professional Geotechnical Engineer prior to footing placement.
- B. Construction of retaining wall should be performed under the observations of a Maryland Professional Engineer. Conformance testing should be performed to verify material engineering properties. Upon completion of the work, the engineer should submit a signed and sealed report stating that the retaining wall was constructed in accordance with the plans, specifications, and accepted modifications (if applicable).

PART 5 - DESIGN CRITERIA

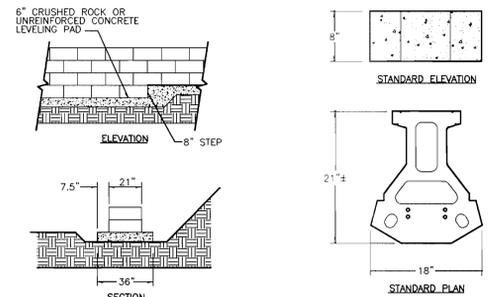
- 1. Required minimum allowable foundation bearing pressure is 3,500 psf.
- 2. Design internal friction angle = 30 degrees.
- 3. Design moist unit weight = 130 pcf.
- 4. Retaining walls are not designed to resist hydrostatic pressure.
- 5. The design includes a traffic surcharge of 250 psf on the top of the wall.
- 6. Foundation soil internal friction angle = 30 degrees and cohesion = 0 psf for Wall A.
- 7. Foundation soil internal friction angle = 13 degrees and cohesion = 150 psf for Walls B and C.

DRAIN TILE OUTLET:
 1. DAYLIGHT AT ENDS OF WALLS.
 2. DAYLIGHT THROUGH WALL AT 20' O.C.
 CUT UNIT ACCORDINGLY TO FIT AROUND PIPE.
 3. THE INTO STORM WATER DRAINAGE SYSTEM.



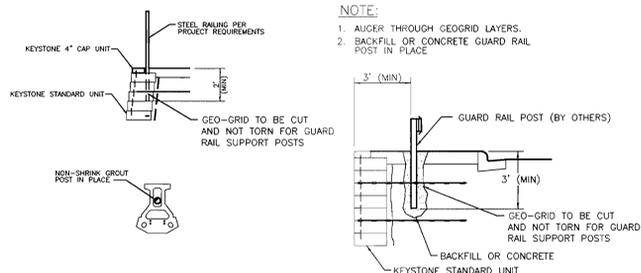
TYPICAL WALL SECTION

STANDARD UNIT - NEAR VERTICAL SETBACK



LEVELING PAD DETAIL

STANDARD UNIT



RAILING SECTION & PLAN DETAIL

TYPICAL GUARD RAIL DETAIL

NOTE:
 1. AUGER THROUGH GEOGRID LAYERS.
 2. BACKFILL OR CONCRETE GUARD RAIL POST IN PLACE.

Notes:
 1. Safety rail to be primed with 1 coat of Koppers 622 cast penetrating primer, or approved equal, then topped with 2 coats of Duron New Rutone Modified Black (or approved equal). Paint to be applied at min. 1.5 mil. per coat.

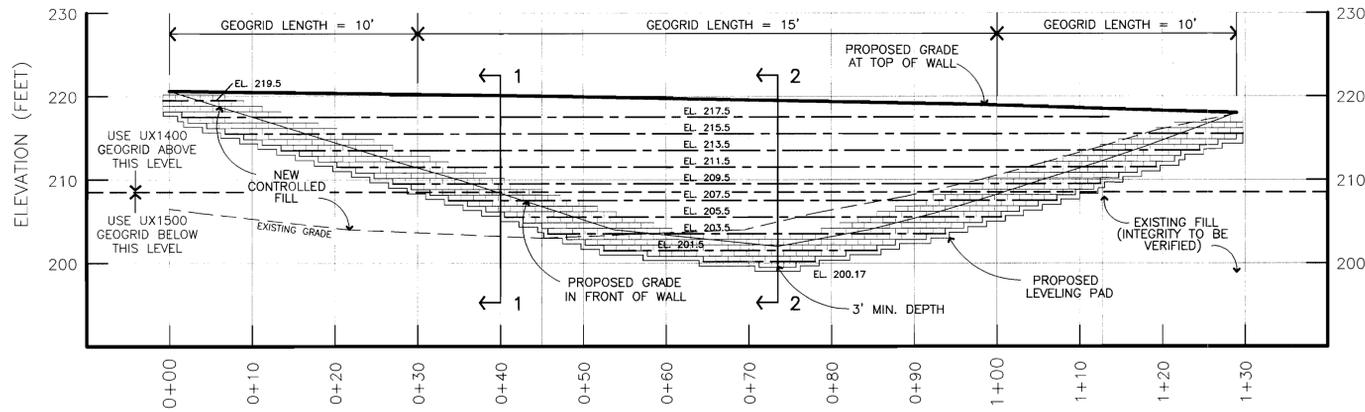
SAFETY RAIL

C-16

		GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS 9090 Junction Drive, Suite 9 Annapolis Junction, Maryland 20701 (410) 792-9446 or (301) 470-4470 FAX (410) 792-7395	
		TROY HILL CORPORATE CENTER RETAINING WALLS A, B & C PLANS, NOTES & DETAILS PARCEL A-14 HOWARD COUNTY, MARYLAND	
DATE	REVISIONS	JOB NO.:	SCALE:
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	11354	AS SHOWN
11/10/00	RAISED BLDG 1 6\"/>		
2/16/01	LOWER BLDG 1 6\"/>		
12/12/01	AS-BUILT DRAWING	DESIGN BY:	RPM
		REVIEW BY:	MG
		SHEET:	17 OF 23

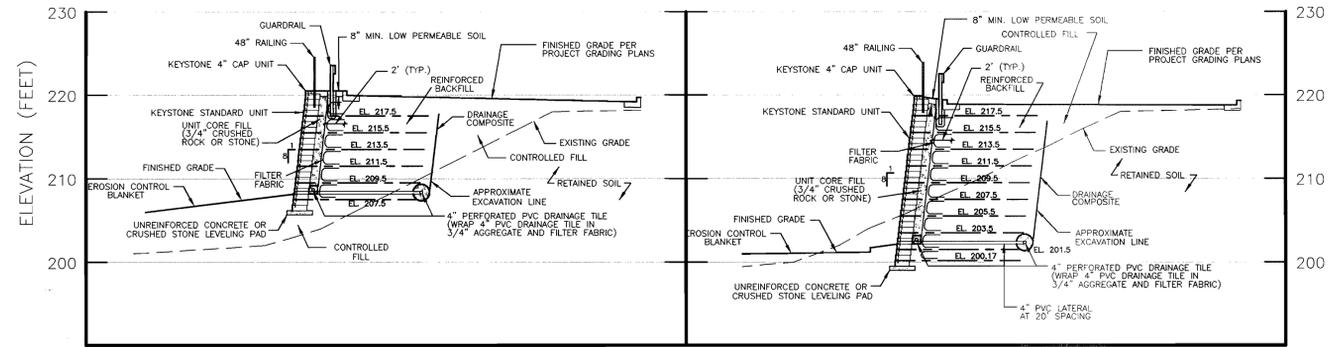
ASBUILT

SDP-01-10



RETAINING WALL A PROFILE

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

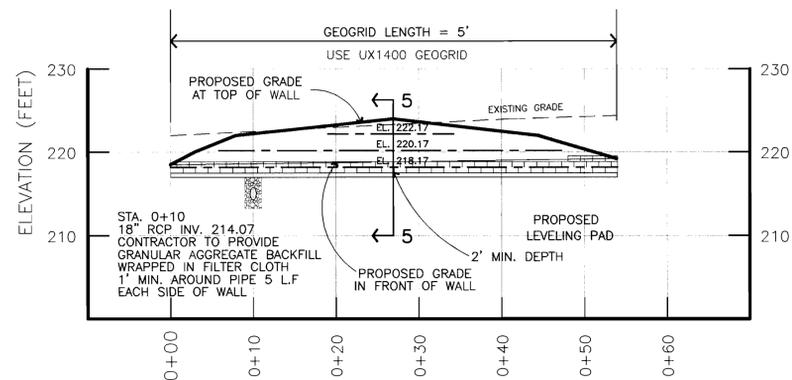


SECTION 1

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

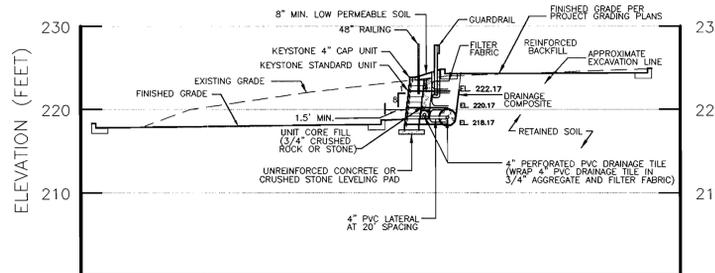
SECTION 2

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



RETAINING WALL C PROFILE

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



SECTION 5

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris Dammann 12/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION CE DATE

Chris Howard 12/21/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

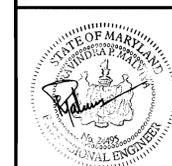
Joseph Roth 12/20/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

C-17



GEO-TECHNOLOGY ASSOCIATES, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

9090 Junction Drive, Suite 9
Annapolis Junction, Maryland 20701
(410) 792-9446 or (301) 470-4470
FAX (410) 792-7395



TROY HILL CORPORATE CENTER
RETAINING WALLS A, B & C
PROFILES & SECTIONS

PARCEL A-14 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	11354
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	SCALE: AS SHOWN
2/10/01	LOWER BLDG 1 G, SPOIL AREA GRADING, PARCEL	DATE: 6-30-00
12/12/01	AS-BUILT DRAWING	DRAWN BY: TSZ
		DESIGN BY: RPM
		REVIEW BY: MG
		SHEET: 18 OF 23

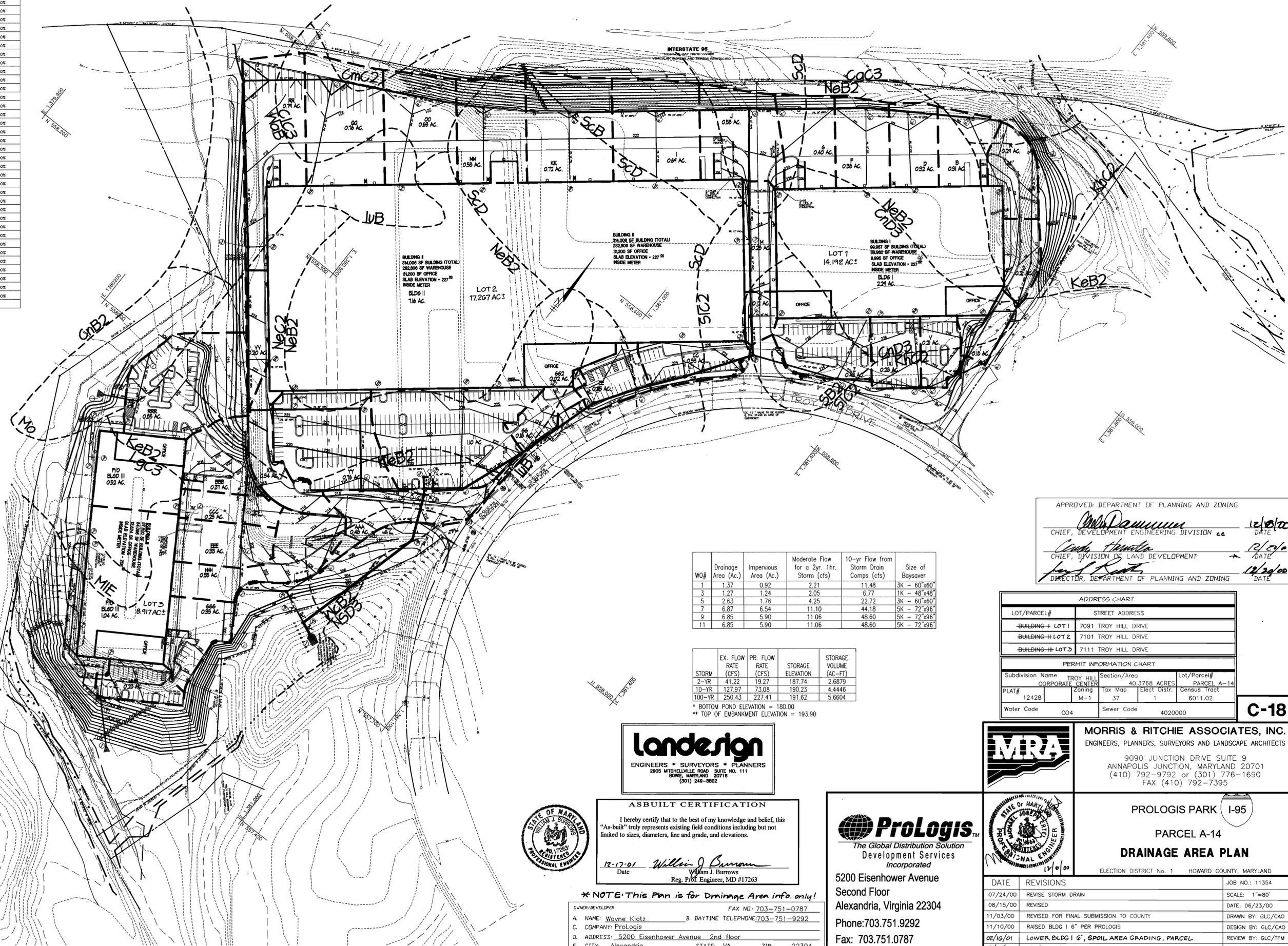
ASBUILT

SDP-01-10

AREA AND "C" FACTOR TABULATION

INLET #	ZONING	SUBAREA	AREA	"C" FACTOR	% IMPERVIOUS
1	M-1	RRR	0.85	0.95	100%
3	M-1	MMH	0.23	0.95	100%
5	M-1	HHH	0.55	0.95	100%
7	M-1	GGG	0.33	0.95	100%
9	M-1	EEE	0.33	0.95	100%
11	M-1	CCC	0.23	0.95	100%
13	M-1	BBB	0.37	0.95	100%
15	M-1	AAA	0.48	0.95	100%
16	M-1	XX	0.34	0.95	100%
19	M-1	YY	0.76	0.95	100%
21	M-1	VV	0.20	0.95	100%
25	M-1	RR	0.79	0.95	100%
27	M-1	QQ	0.76	0.95	100%
29	M-1	OO	0.63	0.95	100%
31	M-1	MM	0.58	0.95	100%
33	M-1	KK	0.72	0.95	100%
35	M-1	II	1.10	0.95	100%
37	M-1	GG	0.18	0.95	100%
38	M-1	GG2	0.02	0.95	100%
39	M-1	EE	0.25	0.95	100%
41	M-1	CC	0.33	0.95	100%
43	M-1	Q	0.12	0.95	100%
45	M-1	M	0.28	0.95	100%
47	M-1	J	0.58	0.95	100%
49	M-1	I	0.69	0.95	100%
51	M-1	G	0.4	0.95	100%
53	M-1	F	0.38	0.95	100%
55	M-1	D	0.32	0.95	100%
57	M-1	B	0.31	0.95	100%
59	M-1	Z	0.43	0.95	100%
61	M-1	X	0.28	0.95	100%
63	M-1	V	0.25	0.95	100%
65	M-1	T	0.18	0.95	100%
67	M-1	S	0.21	0.95	100%
69	M-1	R	0.29	0.95	100%

* ASSUMED WORST CASE "C" 0.95 AND 100% IMPERVIOUS



WQ#	Drainage Area (Ac.)	Impervious Area (Ac.)	Moderate Flow for a 2yr. 1hr. Storm (cfs)	10-yr Flow from Storm Drain Comps (cfs)	Size of Baysaver
1	1.37	0.92	2.21	11.48	3K - 60"x60"
3	1.27	1.24	2.05	6.77	1K - 48"x48"
5	2.63	1.76	4.25	22.72	3K - 60"x60"
7	6.87	6.54	11.10	44.18	5K - 72"x96"
9	6.85	5.90	11.06	48.60	5K - 72"x96"
11	6.85	5.90	11.06	48.60	5K - 72"x96"

STORM	EX. FLOW RATE (CFS)	PR. FLOW RATE (CFS)	STORAGE ELEVATION	STORAGE VOLUME (AC-FT)
2-YR	41.22	19.27	187.74	2.6879
10-YR	127.97	73.08	190.23	4.4446
100-YR	250.43	227.41	191.62	5.6604

* BOTTOM POND ELEVATION = 180.00
 ** TOP OF EMBANKMENT ELEVATION = 193.90

APPROVED: DEPARTMENT OF PLANNING AND ZONING
William J. Burrows 12/12/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Joseph A. Amadio 12/12/01
 CHIEF, DIVISION OF LAND DEVELOPMENT
Paul R. Rutz 12/24/00
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING

ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS
BUILDING - LOT 1	7091 TROY HILL DRIVE
BUILDING - LOT 2	7101 TROY HILL DRIVE
BUILDING - LOT 3	7111 TROY HILL DRIVE

PERMIT INFORMATION CHART			
Subdivision Name	TROY HILL CORPORATE CENTER	Section/Area	40.3768 ACRES
Lot/Parcel#		Parcel A-14	
PLAT#	1242B	Zoning	M-1
		Tax Map	37
		Elect. Distr.	1
		Census Tract	6011.02
Water Code	C04	Sewer Code	4020000

Landesign
 ENGINEERS * SURVEYORS * PLANNERS
 2805 MITCHELLVILLE ROAD SUITE NO. 111
 BOWIE, MARYLAND 20715
 (301) 240-8802

ASBUILT CERTIFICATION
 I hereby certify that to the best of my knowledge and belief, this "As-Built" truly represents existing field conditions including but not limited to sizes, diameters, line and grade, and elevations.
 12-17-01 *William J. Burrows*
 Date *William J. Burrows*
 Reg. Prof. Engineer, MD #17263

* NOTE: This Plan is for Drainage Area info only!
 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

ProLogis
 The Global Distribution Solution
 Development Services
 Incorporated
 5200 Eisenhower Avenue
 Second Floor
 Alexandria, Virginia 22304
 Phone: 703.751.9292
 Fax: 703.751.0787

MRA
MORRIS & RITCHIE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
 9090 JUNCTION DRIVE SUITE 9
 ANNAPOLIS JUNCTION, MARYLAND 20701
 (410) 792-9792 or (301) 776-1690
 FAX (410) 792-7395

PROLOGIS PARK I-95
 PARCEL A-14
DRAINAGE AREA PLAN
 ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
07/24/00	REVISE STORM DRAIN	11354
08/15/00	REVISED	SCALE: 1"=80'
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DRAWN BY: GLC/CAO
02/16/01	LOWER BLDG 1 6", SPOIL AREA GRADING, PARCEL	DESIGN BY: GLC/CAO
12/12/01	AS-BUILT DRAWING	REVIEW BY: GLC/TFM
		SHEET: 19 OF 23

Landesign

ENGINEERS * SURVEYORS * PLANNERS
2905 MITCHELLVILLE ROAD SUITE NO. 111
BOWIE, MARYLAND 20715
(301) 249-8802

1005' LOADING ADJACENT TO R/W
SUBJECT TO SHADE TREE REQ'T.
ONLY DUE TO TOPOGRAPHY TYPE 'D'

3c

LANDSCAPING AS-BUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to size, species and location.

12/17/01

Date

Michael Nagy
Reg. Prof. Landscape Architect, MD #



3b

245' LOADING ADJACENT TO R/W TYPE 'D' SCREENING

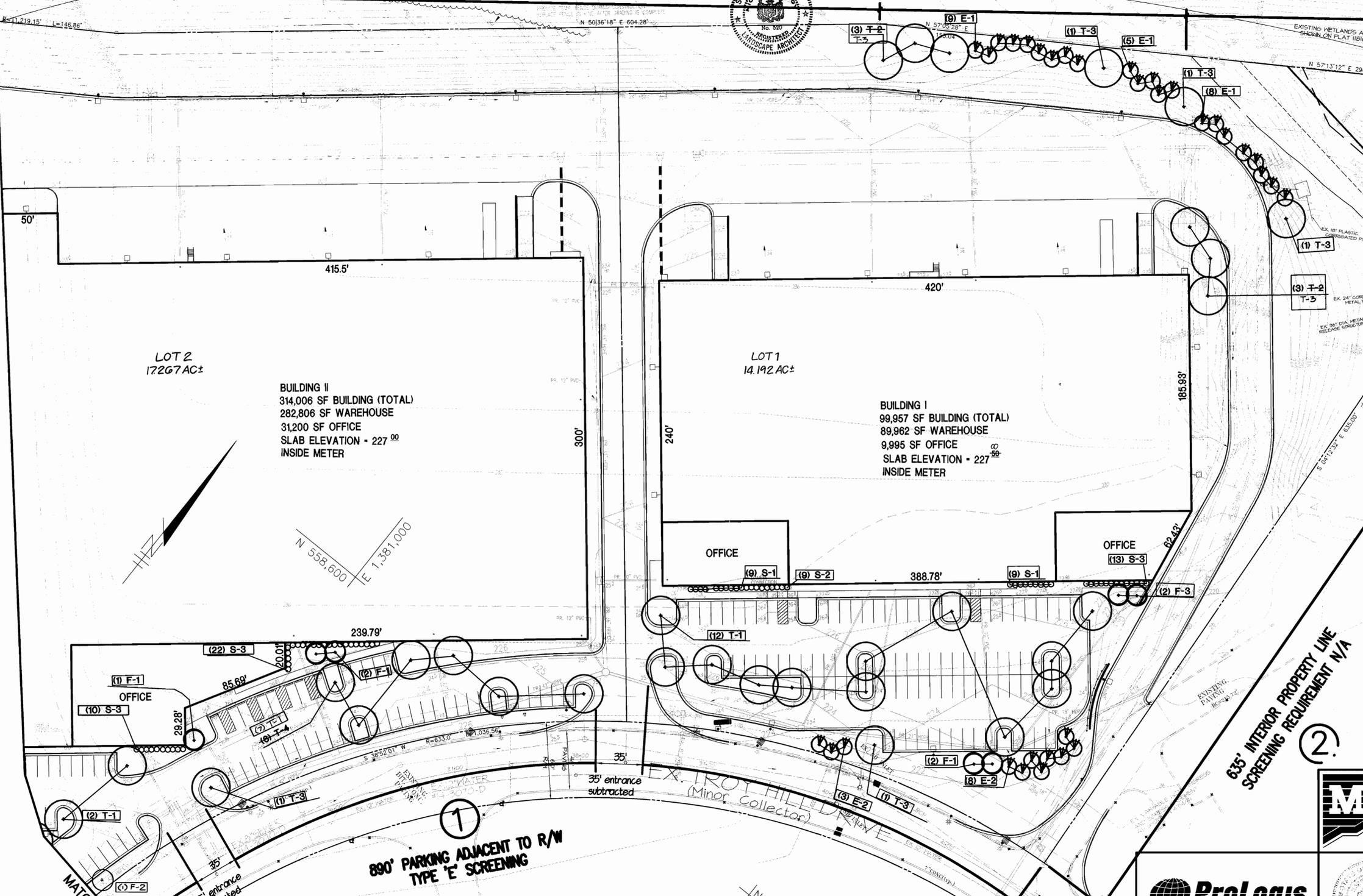
205' NON-RES. TO R/W TYPE 'B' SCREENING

3a

LEGEND

- DECIDUOUS TREES
- FLOWERING TREES
- EVERGREEN TREES
- SHRUBS

MATCHLINE SHT 21 OF 23



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael D. ... 12/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION CE DATE

... .. 12/10/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

... .. 12/20/00
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
T-1	21	Fraxinus pennsylvanica 'Marshall's'	Marshall's Seedless Green Ash	2 1/2" - 3" cal.
T-2	6	Quercus acutissima	Sawtooth Oak	2 1/2" - 3" cal.
T-3	11	Quercus palustris	Pin Oak	2 1/2" - 3" cal.
F-1	5	Cornus canadensis	Eastern Redbud	6' - 7' hgt.
F-3	2	Koeleria paniculata	Golden Raintree	1 3/4" - 2" cal.
E-1	22	Juniperus virginiana	Eastern Red Cedar	5' - 6' B & B
E-2	11	Pinus strobus	Eastern White Pine	6' - 1' B & B
S-1	18	Euonymus alatus 'Compactus'	Dwarf Winged Euonymus	2 1/2" - 3 1/2" B & B
S-2	9	Ilex glabra 'COFFEEA'	Dwarf Inkberry	2 1/2" - 3 1/2" B & B
S-3	45	Mahonia aquifolium	Oregon Grapeholly	2 1/2" - 3 1/2" cont.
F-2	1	Crataegus crusgalli-inermis	Thornless Cockspur Hawthorn	6' - 10' ht.

635' INTERIOR PROPERTY LINE SCREENING REQUIREMENT N/A

890' PARKING ADJACENT TO R/W TYPE 'E' SCREENING

OWNER: 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

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

Developer's/Builder's Certificate
I / We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual.
I / We further certify that upon completion a Certification of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

Dennis ... 11/22/00
Name Date

The owner, tenant, and / or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.



5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787



MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
9090 JUNCTION DRIVE, SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

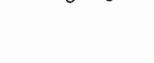


PROLOGIS PARK I-95
PARCEL A-14
FINAL LANDSCAPE PLAN
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
8/15/00	REV. PER COUNTY COMMENTS	11354
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	SCALE: 1" = 40'
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DATE: 06/23/00
02/10/01	LOWER BLDG 1 6", SPOIL AREA GRADING, PARCEL	DRAWN BY: GLC/CAO
12/12/01	AS-BUILT DRAWING	DESIGN BY: GLC/CAO
		REVIEW BY: MRA
		SHEET: 20 OF 23

ASBUILT

LEGEND

-  DECIDUOUS TREES
-  FLOWERING TREES
-  EVERGREEN TREES
-  SHRUBS



1005' LOADING ADJACENT TO R/W
SUBJECT TO SHADE TREE REQ'T.
ONLY DUE TO TOPOGRAPHY TYPE 'D'
INTERSTATE 95
RIGHT-OF-WAY WIDTH VARIES
VEHICULAR ACCESS AND BUSINESS RESTRICTED

195' LOADING ADJACENT TO R/W
TYPE 'D' SCREENING

50' COLONIAL
GASLINE EASEMENT

150' EXISTING
WOODS TO REMAIN

LOT 2
17.267 AC±

BUILDING II
314,006 SF BUILDING (TOTAL)
282,806 SF WAREHOUSE
31,200 SF OFFICE
SLAB ELEVATION - 227.00
INSIDE METER

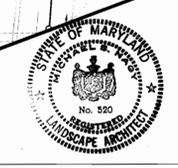
7

5

EX. TROY
HILL DRIVE
(Minor Collector)

573' INTERIOR PROPERTY LINE
SCREENING REQUIREMENTS N/A

FUTURE
SWM PLANTING
BY OTHERS



LANDSCAPING AS-BUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to size, species and location.
Date: 12/17/01
Michael Nagy
Reg. Prof. Landscape Architect, MD #

landesign
ENGINEERS • SURVEYORS • PLANNERS
2905 MITCHELLVILLE ROAD, SUITE NO. 111
BOWIE, MARYLAND 20715
(301) 248-8802

OWNER: 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
DEVELOPER: Wayne Klotz FAX NO: 703-751-0787
A. NAME: Wayne Klotz B. DAYTIME TELEPHONE: 703-751-9292
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9090 JUNCTION DRIVE, SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
T-1	10	Fraxinus pennsylvanica 'Marshall's'	Marshall's Seedless Green Ash	2 1/2' - 3' cal.
T-2	15	Quercus acutissima	Sawtooth Oak	2 1/2' - 3' cal.
T-3	16	Quercus palustris	Pin Oak	2 1/2' - 3' cal.
F-2	5	Crataegus crusgalli inermis	Thornless Cockspur Hawthorn	8' - 10' hgt.
F-3	2	Koeleria paniculata	Golden Raintree	1 3/4' - 2' cal.
E-1	17	Juniperus virginiana	Eastern Red Cedar	5' - 6' B & B
E-2	3	Pinus strobus	Eastern White Pine	6' - 7' B & B

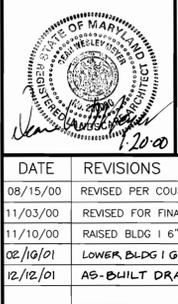
APPROVED: DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 12/18/00

 CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 12/20/00

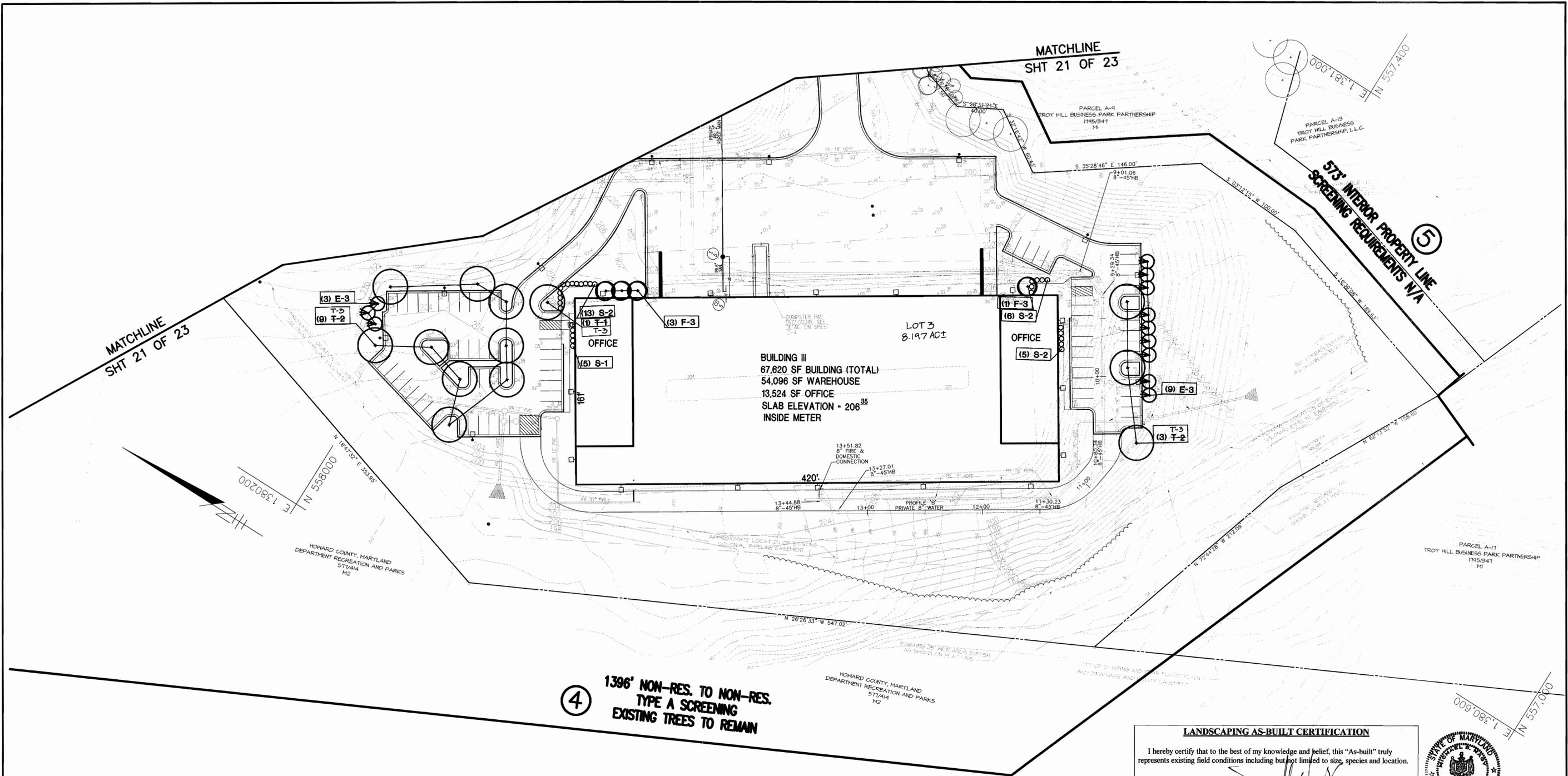
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE: 12/20/00

ProLogis
The Global Distribution Solution
Development Services
Incorporated
5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787



PROLOGIS PARK I-95
PARCEL A-14
FINAL LANDSCAPE PLAN
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND
DATE: 08/15/00 REVISIONS: REVISED PER COUNTY COMMENTS JOB NO.: 11354
DATE: 11/03/00 REVISIONS: REVISED FOR FINAL SUBMISSION TO COUNTY SCALE: 1" = 40'
DATE: 11/10/00 REVISIONS: RAISED BLDG 1 6" PER PROLOGIS DRAWN BY: GLC/CAO
DATE: 02/16/01 REVISIONS: LOWER BLDG 1 G, SPOIL AREA GRADING, PARCEL DESIGN BY: GLC/CAO
DATE: 12/12/01 REVISIONS: AS-BUILT DRAWING REVIEW BY: MRA
SHEET: 21 OF 23

ASBUILT



MATCHLINE
SHT 21 OF 23

MATCHLINE
SHT 21 OF 23

573' INTERIOR PROPERTY LINE
SCREENING REQUIREMENTS N/A

4 1396' NON-RES. TO NON-RES.
TYPE A SCREENING
EXISTING TREES TO REMAIN

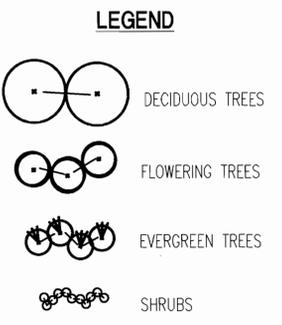
LANDSCAPING AS-BUILT CERTIFICATION
I hereby certify that to the best of my knowledge and belief, this "As-built" truly represents existing field conditions including but not limited to size, species and location.
Date: 12/17/01
Michael Nagy
Reg. Prof. Landscape Architect, MD #



L-3

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
T-3	13	Quercus palustris	Pin Oak	2 1/2' - 3' cal.
T-2	14	Quercus acutissima	Sawtooth Oak	2 1/2' - 3' cal.
F-3	4	Koelerutaria paniculata	Golden Rain tree	1 3/4' - 2' cal.
E-3	12	Tsuga canadensis	Canadian Hemlock	5' - 6' B & B
S-1	5	Euonymus alatus 'Compactus'	Dwarf Winged Euonymus	24' - 36' B & B
S-2	24	Ilex glabra 'COMPACTA'	Dwarf Inkberry	24' - 36' B & B



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Michael Nagy 12/18/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION CE DATE
Condy Hamata 12/21/01
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
John Smith 12/29/01
 DIRECTOR, DEPARTMENT OF PLANNING AND ZONING DATE

OWNER: 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
 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

Landesign
 ENGINEERS • SURVEYORS • PLANNERS
 2005 MITCHELLVILLE ROAD SUITE NO. 111
 BOWIE, MARYLAND 20716
 (301) 248-8802

MRA
 MORRIS & RITCHIE ASSOCIATES, INC.
 ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
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STATE OF MARYLAND
 PROFESSIONAL LANDSCAPE ARCHITECT
 1200

PROLOGIS PARK I-95
 PARCEL A-14
 FINAL LANDSCAPE PLAN
 ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND

DATE	REVISIONS	JOB NO.:
08/15/00	REVISED PER COUNTY COMMENTS	11354
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DATE: 06/23/00
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DRAWN BY: GLC/CAO
02/16/01	LOWER BLDG 1 G, SPOIL AREA GRADING, PARCEL	DESIGN BY: GLC/CAO
12/13/01	AS-BUILT DRAWING	REVIEW BY: MRA
		SHEET: 22 OF 23

ASBUILT

SCHEDULE 'A' PERIMETER LANDSCAPE EDGE			
PERIMETER	PLANTS REQUIRED	PLANTS PROVIDED	EDGE TYPE
① 840 L.F. PARKING ADJACENT TO R/M	1/40 L.F. SHADE = 22.3 1/4 L.F. SHRUBS = 222.5	7.0 SHADE TREES 2.0 FLOWERING TREES 11.0 EVERGREEN TREES	(E)
② 635 L.F. INTERNAL PROPERTY LINE	N / A	no plantings provided	N / A
③a 205 L.F. NON RES. TO R/M	1/50 L.F. SHADE = 4.1 1/40 L.F. EVERGREEN = 5.1	2.0 SHADE TREES 8.0 EVERGREEN TREES	(B)
③b 245' LOADING ADJACENT TO R/M	1/60 L.F. SHADE = 4.1 1/10 L.F. EVERGREEN = 24.5	4.0 SHADE TREES 14.0 EVERGREEN TREES	(D)
③c 1005' LOADING ADJACENT TO R/M	1/60 L.F. SHADE = 16.8 TOPO MEETS EVERGREEN REQ'T.	no plantings provided TOPOGRAPHY MEETS REQ'T.	(D)
③d 145' LOADING ADJACENT TO R/M	1/60 L.F. SHADE = 3.3 1/10 L.F. EVERGREEN = 19.5	6.0 SHADE TREES 20.0 EVERGREEN TREES 5.0 FLOWERING TREES	(D)
③e 50' COLONIAL GAS LINE EASEMENT	N / A	NONE DUE TO UTILITY EASEMENT	(B)
③f 150 L.F. NON-RES. TO R / W	EXIST. TREES FULFILL REQ'TS.	EXISTING TREES TO REMAIN	(B)
④ 1346 L.F. NON-RES. TO NON- RES.	EXIST. TREES FULFILL REQ'TS.	EXISTING TREES TO REMAIN	(A)
⑤ 573 L.F. INTERNAL PROPERTY LINE	N / A	N / A	N / A
TOTALS	SHADES = 50.6 EVERGREENS = 44.1 SHRUBS = 222.5	19.0 SHADE TREES 7.0 FLOWERING TREES 53.0 EVERGREEN TREES	

LANDSCAPE PLAN AND PLANTING SPECIFICATIONS

PART 1 GENERAL

1.01 DESCRIPTION:

A. Work consists of all labor, materials, equipment and services necessary for and incidental to the execution and completion of the FINAL LANDSCAPE PLAN as indicated on the Drawings and specified herein.

B. Include:

- Layout.
- Furnishing of tree protection and planting materials.
- Preparation, planting operations, mulching and staking.
- Maintenance.

1.02 REFERENCES AND QUALITY ASSURANCE:

A. Landscape Contractors Association MD-DC-VA (LCA), Landscape Specification Guidelines, latest edition except where superseded by specific requirements herein.

B. American Association of Nurserymen (A.A.N.), American Standard for Nursery Stock, A.N.S.I. Z60.1, latest edition.

C. Nomenclature: In accordance with Hortus Third, latest edition, by the staff of the L. H. Bailey Hortorium, Cornell University.

D. Federal Specification: Q-P-166e as applicable to Pest Mass.

E. National Arboral Association, Standard for Pruning of Shade Trees, Gearing of Shade Trees, Fertilizing Shade and Ornamental Trees and Pesticides Application, latest edition.

F. Maryland Department of Transportation, State Highway Administration (MSHA) Standard Specifications for Construction and Materials, October 1993, as amended to date. Delete references to "Measurement and Payment."

1.03 STANDARD OF COMPARISON:

A. When requested by the Owner's Representative, the Contractor shall obtain approval of a standard of comparison, prior to the delivery of plant material to the site.

- Contact the Owner's Representative to schedule an inspection for approval of the "standards" for plant material to be installed on the project site.
- "Standards" shall be assembled at the project site for review and approval, or at the Contractor's principal business location, as determined by the Owner's Representative. Approved "standards" may be planted at the project site.

1.04 SUBMITTALS:

A. Source: Notify the Owner's Representative, in writing, of the source of all material at least ten (10) working days prior to delivery at the project site.

B. Samples and Certifications:

- If requested, a match sample shall be provided at the site for approval by the Owner's Representative (5% C.F. minimum).
- Submit certification of pest mass compliance with referenced specifications.

1.05 DELIVERY, STORAGE AND HANDLING:

A. Store plants that cannot be planted within 8 hours in a sheltered place. Water and maintain as required until planted.

B. Transport and handle plants so that foliage and roots are protected from damage, sun and wind. Tops or roots of plants allowed to dry out or which have been knocked or disturbed root systems may be rejected.

C. B & B (balled and burlapped) plants: Firm, natural balls of soil, with size and depth of ball in accordance with A.A.N. Standards.

1.06 QUANTITIES AND SUBSTITUTIONS:

A. Quantities of plant material are based upon the plant lists shown on the Drawings.

B. Substitutions:

- Bidders shall notify the Owner's Representative if specified plants are not available from sources within 100 miles of the project site, giving the names of all sources contacted.
- If an acceptable source cannot be located for the specified plants, the Owner's Representative will select a substitute and notify the Bidders of the approved substitution for the Bid to be based upon, or provide a source for the originally specified plant.
- Substituted plants shall be of the same size and condition as the original plant specified.

1.07 PROJECT CONDITIONS:

A. Planting Season:

- Primary planting season: September 15 to May 15.
- Other periods with written approval from the Owner's Representative.

B. Existing Conditions: Notify MSA Utility (1-800-257-7777), and the Owner's Representative prior to planting operations. Verify the location of underground utilities.

1.08 DEFINITIONS:

A. Diameter at Breast Height (DBH): The diameter of a tree measured at a point on the trunk 4.5 feet above the ground.

B. Initial Acceptance: Occurs when all plant material is in place in accordance with the specifications and approved by the Owner's Representative.

C. Maintenance Period: From initial acceptance of the plantings, and continuing thereafter for a period of 12 months.

D. Owner's Representative: The Landscape Architect or other Qualified Professional designated by the Owner or Developer of the Project.

E. Retention: The deliberate holding and protecting of existing trees, shrubs or herbaceous plants on the site.

F. Specimen Tree: A tree which exists on the project site prior to construction or planting having a 30 inch or greater DBH, or tree having 75 percent or more of the diameter of the current stem or canopy diameter tree of that same species.

G. Start of Planting: Installation of plant material into excavated pits or beds.

H. Final Acceptance: Occurs after Contractor has completed all outstanding items, as determined by the Owner's Representative, at the end of the maintenance period.

1.09 SURVIVAL REQUIREMENT AND REPLACEMENTS:

A. The minimum survival rate shall be 100 percent of the total number of trees and shrubs planted at the end of the 12-month maintenance period.

B. Replacement materials shall be the same size as the original plant material taking into account any growth that has occurred since original installation.

C. Methods of installation shall be identical to the original.

1.10 PENALTY FOR VIOLATION:

A. Immediately following the completion of construction and installation of the plantings, the owner or owner's representative will be notified for an inspection of the entire project site.

B. If, upon Final Acceptance inspection, trees and other vegetation designated as retention plant material are found to be damaged or dead due to mechanical utilization or related construction activities associated with the landscape contractor installation and maintenance of the said plan, then replacement equivalent will be required.

PART 2 PRODUCTS:

2.01 PLANTS:

A. Plant materials shall meet or exceed the requirements of A.A.N. standards, or as amended herein.

B. Plants shall be typical of the species and variety, and have a normal habit of growth with well established root systems.

C. Sound, healthy, vigorous, free from plant diseases, insect pests or their eggs and without suckers or evidence of suckering.

D. Plants cut back from larger sizes or pruned prior to delivery will not be accepted.

E. Measurements: The caliper of deciduous trees (except seedlings and whips) shall be measured 6-inches above ground level for trees up to and including 4 inch caliper and 12 inches above ground level for material larger than 4 inch caliper. Seedlings and whips shall be measured at the root collar.

2.02 DECIDUOUS STREET TREES:

A. Single straight leader, well branched, and symmetrical, without suckers or evidence of suckering, according to their normal habit.

B. Trees planted within five (5) feet of pedestrian ways, parking lots or roads shall be free from branches up to eight (8) feet in height from finish grade.

2.03 EVERGREENS: Sheared evergreen plant material shall not be acceptable.

2.04 SHRUBS: At least 75% of the individual branches or canes of a shrub shall be to the height specified.

2.05 HERBICIDES:

A. Contact herbicide shall be "Round-up" or approved equal.

B. Pre-emergence herbicide shall be "Stomp" or approved equal.

2.06 TOPSOIL FOR AMENDING EXISTING SOIL:

A. General Requirements (only where required by details on the Drawings):

- Natural, friable sand loam topsoil which is free of subsoil, clay lumps, stones, stumps, roots or similar objects larger than 1-inch.
- Free of brush, objectionable weeds and litter or other substance which is harmful to plant growth.

B. In accordance with MSHA Item 920.01.02 for Fertilized Topsoil if borrow topsoil is required from an off-site location.

2.07 FERTILIZER FOR POST PLANTING:

A. 5-10-5 (Plant food by minimum percentages)

(N)	Total Nitrogen	5
(P2O5)	Available Phosphoric Acid	10
(K2O)	Soluble Potash	5

B. Fertilizer shall be slow release over a minimum 3 year period. Fertilizer shall be delivered to the site with formula attached.

2.08 PEAT MOSS: Baled sphagnum peat moss, Type I-A, conforming to Federal Specification Q-P-166e.

2.09 MULCH:

A. Mulch shall be the following as indicated on the Drawings:

- Shredded hardwood.
- Pine Straw.

B. Mulch shall have been prepared within the last four (4) months.

2.10 WATER: Potable; if not available at the site from a public water supply, the Contractor shall provide water at no additional cost to the Owner.

2.11 ANTI-TRANSPARENT: Shall be the following or approved equal:

"Will-Prul"
Will-Prul Products Inc.
P. O. Box 469
Essex, CT 06026
(203) 767-7033
or approved equal.

2.12 ACCESSORIES:

A. Tree guying:

- Stakes: 2 inch x 2 inch rough sawn oak stakes, notched to hold wire, length as required to secure the tree.
- Wire: Galvanized steel wire, double.
- Slaves: Nylon reinforced green vinyl hose.

B. Tree shelters, netting and stakes: Extruded two-walled polypropylene with ultra-violet stabilizer and anti-abrasion rim as manufactured by:

Tubes
P.O. Box 7097
Saint Paul, MN 55107
(612) 228-0535
or approved equal.

GENERAL NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF NURSERY STOCK OF THE AMERICAN ASSOCIATION OF NURSEYMEN.
- TREES AND SHRUBS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, WELL DEVELOPED, DENSELY FOLIATED BRANCHES, AND VIGOROUS, FIBROUS ROOT SYSTEMS.
- TREES AND SHRUBS SHALL BE FRESHLY DUG AND NURSERY GROWN. THEY SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT OR PROPERLY ACCLIMATED TO CONDITIONS OF THE LOCALITY OF THE PROJECT.
- TREES AND SHRUBS SHALL BE FREE FROM DEFECTS AND INJURIES AND CERTIFIED BY APPROPRIATE FEDERAL AND STATE AUTHORITIES TO BE FREE OF DISEASES AND INSECT INFESTATIONS.
- THE LANDSCAPE CONTRACTOR SHALL WARRANT ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) FULL YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS, UNSATISFACTORY GROWTH, DISEASE OR DEATH. UNSATISFACTORY, UNHEALTHY, DYING OR DEAD PLANT MATERIAL (IN THE OPINION OF THE LANDSCAPE ARCHITECT) SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES.
- IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO ADEQUATELY AND PROPERLY MAINTAIN THE LANDSCAPED AREAS, WHICH SHALL INCLUDE WATERING, CLEANING OF WEEDS AND DEBRIS, PRUNING AND TRIMMING, REPLACEMENT OF DEAD OR DISEASED PLANTINGS, AND FERTILIZING TO MAINTAIN HEALTHY GROWTH.
- THE LANDSCAPE CONTRACTOR SHALL STAKEOUT PLANT LOCATIONS IN THE FIELD. THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE SHALL OBSERVE THESE LOCATIONS PRIOR TO COMMENCING PLANT PIT EXCAVATION. THE LANDSCAPE CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUESTED BY THE LANDSCAPE ARCHITECT.
- ALL PLANT SAUCERS AND PLANT BEDS SHALL BE MULCHED WITH DOUBLE SHREDDED HARDWOOD MULCH, A MINIMUM OF 3" IN DEPTH.
- NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE. THIS SHALL APPLY TO SUBSTITUTIONS OF SPECIES, SIZE AND QUANTITY.
- THE LANDSCAPE CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD BARK MULCH UNDER AND SURROUNDING ALL NEW LANDSCAPED MASS PLANTING AREAS TO PROVIDE A UNIFORM AND CONTINUOUS SURFACE AND APPEARANCE BETWEEN AND AROUND ALL PLANT MATERIAL, BUILDING LINES AND PAVED AREAS. IN GENERAL, THIS PERTAINS TO ALL PLANT MATERIAL THAT IS PLANTED CLOSER THAN SIX (6) FEET CENTER TO CENTER. IT IS THE INTENT OF THIS CONTRACT TO INSTALL LANDSCAPE MAT UNDER THE ENTIRE AREA OF SHREDDED BARK MULCH.
- TREES SHALL BE LOCATED A MINIMUM OF 5' FROM SEWER/WATER CONNECTIONS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC AND PRIVATE UTILITIES, WATER AND SEWER LINES.
- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- CONTRACTOR SHALL SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS NOT TO IMPED DRAINAGE AWAY FROM BUILDINGS.
- TREE STAKING AND GUYING SHALL BE DONE PER DETAILS. CONTRACTOR SHALL ENSURE THAT TREES REMAIN PLUMB AND UPRIGHT FOR THE DURATION OF THE GUARANTEE PERIOD.
- ALL TREE PITS, SHRUB BEDS, AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
- CROWN OF ROOT BALL SHALL BE HIGHER (AFTER SETTING) THAN ADJACENT SOIL.
- SHADE TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE HIGHEST BRANCH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF ANY GROUCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
- CONTRACTOR MUST CONTACT THE OWNER AT LEAST TEN WORKING DAYS IN ADVANCE TO SCHEDULE INSPECTION. INSPECTION SHALL BE SCHEDULED TO REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
- TREES SHALL BE PLANTED DURING ACCEPTABLE PLANTING SEASONS, BETWEEN MARCH 15 AND MAY 15 AND BETWEEN AUGUST 15 AND NOVEMBER 15 OR AS APPROVED BY OWNERS REPRESENTATIVE.
- ALL TREE STAKING AND GUYING SHALL BE REMOVED BY THE CONTRACTOR AFTER THE TREES ARE ESTABLISHED.
- SEEDED AREAS THAT WASH OUT MUST BE FILLED AND GRADED AS NECESSARY AND THE RESEEDED. SOME TYPE OF ANCHORING METHOD SHOULD THEN BE USED TO HOLD SEED AND MULCH IN PLACE; THIS IS ESPECIALLY IMPORTANT AROUND WATER COURSES, IN SWALES AND AREAS OF CONCENTRATED FLOWS, AND ON SLOPES.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$36,480.00 (64 SHADE TREES @ \$300.00 ea., 85 FLOWERING & EVERGREEN TREES @ \$150.00 ea., 101 SHRUBS @ \$30.00 ea.)

PLANT LIST				
KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
T-1	21	Fraxinus pennsylvanica 'Marshall's'	Marshall's Seedless Green Ash	1 1/2' - 3' cal.
T-2	35	Quercus acutissima	Sawtooth Oak	2 1/2' - 3' cal.
T-3	12	Quercus palustris	Pin Oak	1 1/2' - 3' cal.
F-1	5	Cercis canadensis	Eastern Redbud	6' - 7' hgt.
F-2	6	Crataegus crusgalli inermis	Thornless Cockspur Hawthorn	8' - 10' hgt.
F-3	4	Koelerutaria paniculata	Golden Rain Tree	1 3/4' - 2' cal.
E-1	39	Juniperus virginiana	Eastern Red Cedar	5' - 6' B & B
E-2	14	Pinus strobus	Eastern White Pine	6' - 7' B & B
E-3	12	Thuja canadensis	Canadian Hemlock	5' - 6' B & B
S-1	23	Euonymus alatus 'Compactus'	Dwarf Winged Euonymus	24" - 36" B & B
S-2	33	Ilex glabra 'COMPACTA'	Dwarf Inkberry	24" - 36" B & B
S-3	45	Nahonia aquilifolium	Oregon Grapeholly	24" - 36" cont.

LANDSCAPING AS-BUILT CERTIFICATION

I hereby certify that to the best of my knowledge and belief, this "As-Built" truly represents existing field conditions including but not limited to size, species and location.

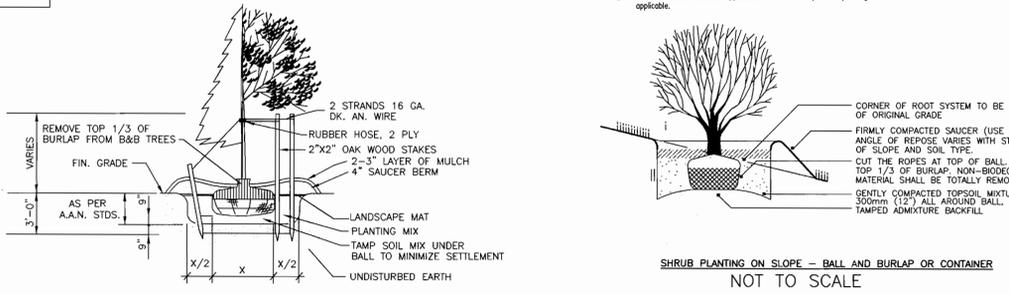
Michael Nagy
Reg. Prof. Landscape Architect, MD #
12-17-01
Date

COMPOSITE PLANT CHART			
REQUIRED		PROVIDED	
SHADE TREES 50.6 PERIMETER + 23.9 PARKING =	75 SHADE TREES	SHADE TREES 19.0	64 SHADE TREES
EVERGREENS 44.1 PERIMETER = 44 / 2 =	25.0 SHADE TREES	FLOWERING TREES 7.0	10.0 SHADE TREES
SHRUBS 222.5 PERIMETER = 226.0 / 10 =	22.0 SHADE TREES	EVERGREEN TREES 53.0	32.5 SHADE TREES
TOTAL =	122 SHADE TREES	SHRUBS 101 / 10 =	10.1 SHADE TREES
		TOTAL =	122.1 122.0 SHADE TREES

SCHEDULE 'B' PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	470
NUMBER OF TREES REQUIRED	23.9
NUMBER OF TREES PROVIDED	21.0 SHADE TREES 3.0 FLOWERING TREES 9.0 EVERGREENS

SCHEDULE 'D' STORMWATER MANAGEMENT LANDSCAPING

ALL STORMWATER MANAGEMENT FACILITIES UTILIZED BY THIS DEVELOPMENT HAVE THEIR OWN APPROVED LANDSCAPE PLANS ASSOCIATED WITH THE CONSTRUCTION OF SAID FACILITIES.



ProLogis
The Global Distribution Solution™
Development Services
Incorporated

5200 Eisenhower Avenue
Second Floor
Alexandria, Virginia 22304
Phone: 703.751.9292
Fax: 703.751.0787

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael Nagy
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 12/10/00

James Smith
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 12/21/00

James Smith
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING
DATE: 12/29/00

L-4

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE, SUITE 9
ANNAPOLIS JUNCTION, MARYLAND 20701
(410) 792-9792 or (301) 776-1690
FAX (410) 792-7395

PROLOGIS PARK I-95		
PARCEL A-14		
FINAL LANDSCAPE NOTES & DETAILS		
ELECTION DISTRICT No. 1 HOWARD COUNTY, MARYLAND		
DATE	REVISIONS	JOB NO.: 11354
08/15/00	REV. PER COUNTY COMMENTS	SCALE: 1" = 40'
09/08/00	REV. PER COUNTY COMMENTS	DATE: 06/23/00
11/03/00	REVISED FOR FINAL SUBMISSION TO COUNTY	DRAWN BY: GLC/CAO
11/10/00	RAISED BLDG 1 6" PER PROLOGIS	DESIGN BY: GLC/CAO
02/16/01	LOWER BLDG 1 6", 8" POLY AREA GRADING, PARCEL	REVIEW BY: MRA
12/12/01	AS-BUILT DRAWING	SHEET: 23 OF 23