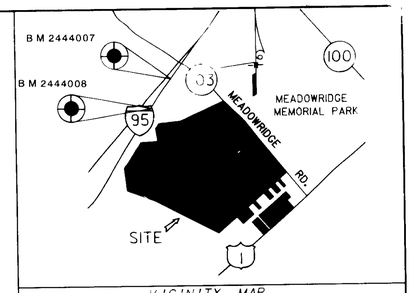
B M 2444007 ELEV 252 125
N 493871 217 E 863850 985

1 MILE NORTHEAST OF ACCESS RTE 175 AND 0 50 MILE SOUTHWEST OF RTE 100 EXIT ABOUT 4.75 SOUTH OF THE NORTHBOUND LANES OF I-95 (A REBAR MONUMENT APPROX. 0 10' BELOW GROUND)

B M 2444008 ELEV 245 81
N 493163 007 E 863337 082

0 80 MILE NORTHEAST OF ACCESS RTE. 175 ABOUT 7 70 SOUTH OF THE NORTHBOUND LANES OF I-95 (A REBAR MONUMENT APPROXIMATE 0 6' BELOW GROUND)

Meadowridge Memorial Park, Inc
151/32



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joyce M Boyd (Joyce M Boyd) per [signature] 11/15/89
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT OF PUBLIC WORKS

[signature] 11-14-89
DIRECTOR DATE
[signature] 11-17-89
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING

[signature] 12/8/89
PLANNING DIRECTOR DATE
[signature] 12/7/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

SEDIMENT CONTROL

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

SIGNATURE OF DEVELOPER DATE

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 DATE

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

U.S. SOIL CONSERVATION SERVICE DATE

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

HOWARD S.C.D. DATE

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-9-89

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

INDEX

SHEET NUMBER	TITLE
1	Site Plan Index, 1"=100'
2	Site Plan Buildings A, B1 & B2, 1"=50'
3	Site Plan Buildings A, B1 & B2, 1"=50'
4	Site Details
5	Site Details
6	Storm Drain Profiles
7	Storm Drain Profiles
8	Storm Drain Details
9	Sediment Control Plan
10	Sediment Control Plan
11	Sediment Control Details
12	Drainage Area Map, 1"=100'
13	Planting and Lighting Plan
14	Planting and Lighting Plan

* **NOTE:** The wetland buffer indicated on this SDP does not affect the initial construction of the grading, buildings, parking, and utilities on a lot or parcel. It does prohibit subsequent clearing, grading, or construction in the buffer area Maintenance of buildings, parking, landscaping, and utilities is permitted

ADDRESS CHART

PARCEL #	STREET ADDRESS
A	6745 BUSINESS PARKWAY
B - BLDG B-1	6725 BUSINESS PARKWAY
B - BLDG B-2	6735 BUSINESS PARKWAY

SUBDIVISION NAME	SECT / AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK	—	A B

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
9045 + 9046	22	M1	37	1st	6012

WATER CODE SEWER CODE

F-89-163

Owner/Developer

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

No.	REVISION	DATE	BY

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 206
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SITE PLAN INDEX: PARCELS A & B
MEADOWRIDGE BUSINESS PARK
Liber 1419, FOLIO 500 Tax Map 37 P.362 P1.3
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37-43
HOWARD CO., MARYLAND

SVB DESIGN	SCALE 1" = 100'		
MFF DRAWN	1 OF 14		
RHM CHECKED	SHEET		
OCT, 1988 DATE	JOB No.	B-1101-X FILE No.	

SDP 87-69

SITE DATA

	PARCEL A	PARCEL B
TOTAL AREA	365,422 SF	453,679 SF
TOTAL FLOOR AREA	140,400 SF	192,000 SF
BUILDING COVERAGE	38.42%	42.32%
I OFFICE	10%	10%
I WAREHOUSE	90%	90%
TOTAL OFFICE AREA	14,040 SF	19,200 SF
EMPLOYEES @ 1 EMPLOYEE/200 SF	71	96
PARKING REQUIRED @ 7 SPACES/10 EMPLOYEES	50	68
TOTAL WAREHOUSE AREA	126,360 SF	172,800 SF
EMPLOYEES @ 1 EMPLOYEE/1000 SF	127	173
PARKING REQUIRED @ 1 SPACE/2 EMPLOYEES	64	87
TOTAL PARKING REQUIRED	114	155
TOTAL PARKING PROVIDED	207	215

	REQUIRED	PROVIDED
BUILDING HEIGHT	50' MAXIMUM	33'
SET BACKS		
EXTERNAL PUBLIC R O W	50'	50'
FENCES AND PARKING USES	30'	30'
OPEN SPACE	20% MINIMUM	
PARCEL A	1.68 AC	2.05 AC (24.4%)
PARCEL B	1.08 AC	2.51 AC (24.1%)
LANDSCAPING - PARKING AREAS	5% MINIMUM	
PARCEL A	2,936 SF	3,670 SF (6.25%)
PARCEL B	4,323 SF	6,830 SF (7.90%)
EXTERNAL STREET R O W	10' MINIMUM	10'
ABUTTING RESIDENTIAL LOTS	10' MINIMUM	10

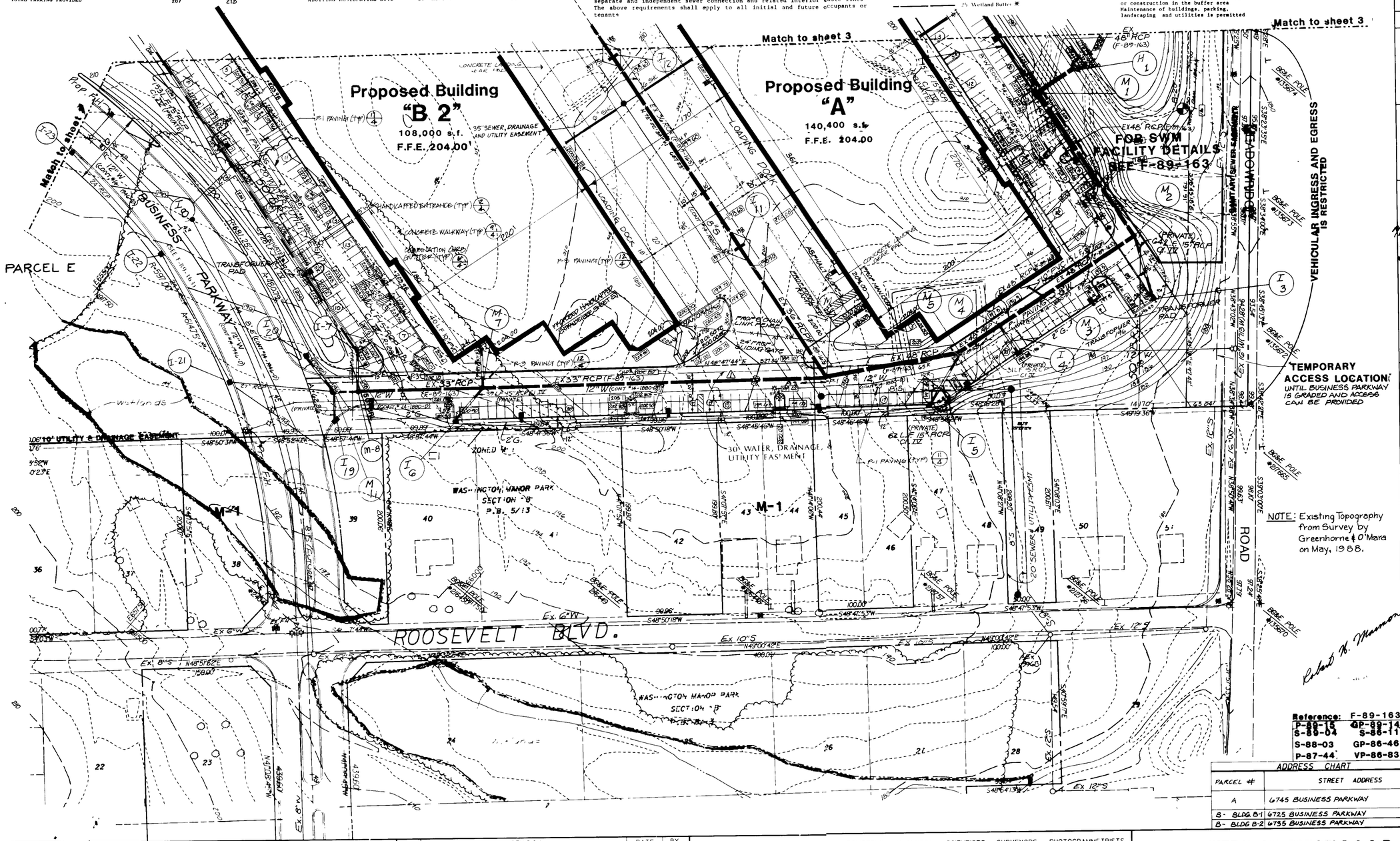
GENERAL NOTES

1. Existing Zoning: M-1
2. Final Development Plan Reference: F-89-163
3. Tax Map: 37
4. Total Area of Parcel A: 8.3880 Ac (365,422 SF)
   Total Area of Parcel B: 10.4152 Ac (453,679 SF)
5. The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building, shown on this site development plan, who will discharge non-domestic waste to the public sewerage system if this waste is regulated under Section 18.122A of the Howard County Code. Each separate and independent sewer connection shall include a standard manhole and other waste pretreatment devices as required and approved by Howard County. Waste lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No tenant or occupant of any building shown on this site development plan shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and related interior waste lines. The above requirements shall apply to all initial and future occupants or tenants.

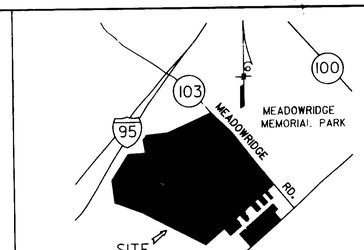
LEGEND

- Proposed Building Setbacks
- Existing Contour
- Proposed Contour
- Field Located Wetlands
- Existing Sanitary Line
- Proposed Sanitary Line
- Existing Storm Drainage Line (SEE F-89-163)
- Proposed Storm Drainage Line (Private)
- Existing Water Line
- Proposed Water Line
- 25' Wetland Buffer *
- Proposed Fire Hydrant
- Proposed Catch Basin
- Existing Tree Line
- Dumpster and Dumpster Pad
- Type 1 Light (see Sheet 13)
- PROPOSED GAS MAIN
- Number of Parking Spaces in Aisle
- TRANSFORMER PAD

* NOTE: The wetland buffer indicated on this SDP does not affect the initial construction of the grading, buildings, parking, and utilities on a lot or parcel. It does prohibit subsequent clearing, grading, or construction in the buffer area. Maintenance of buildings, parking, landscaping and utilities is permitted.



NOTE: Existing Topography from Survey by Greenhorne & O'Mara on May, 1988.



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd (for) J.S.M. — 11/15/89
COUNTY HEALTH OFFICER — DATE

APPROVED: FOR PUBLIC WATER/PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 11/6/89 DATE
CHIEF, BUREAU OF ENGINEERING — 11-7-89 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 12/8/89 DATE
Frank J. Dwyer — 12/2/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE

SEDIMENT CONTROL

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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
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SIGNATURE OF DEVELOPER — DATE

BY THE ENGINEER:
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SIGNATURE OF ENGINEER — DATE

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

U.S. SOIL CONSERVATION SERVICE — DATE

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

HOWARD S.C.D. — DATE

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-9-89
J.R.

Reference: F-89-163
P-89-15, GP-89-14, S-89-04, S-88-11, S-88-03, GP-86-46, P-87-44, VP-86-83

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART	
PARCEL #	STREET ADDRESS
A	6745 BUSINESS PARKWAY
B - BLDG B-1	6725 BUSINESS PARKWAY
B - BLDG B-2	6755 BUSINESS PARKWAY

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK		A + B

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
9045 + 9046	22	M-1	37	1st	6012

WATER CODE — SEWER CODE

Owner/Developer
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, Md. 21046,
(301) 381-4444

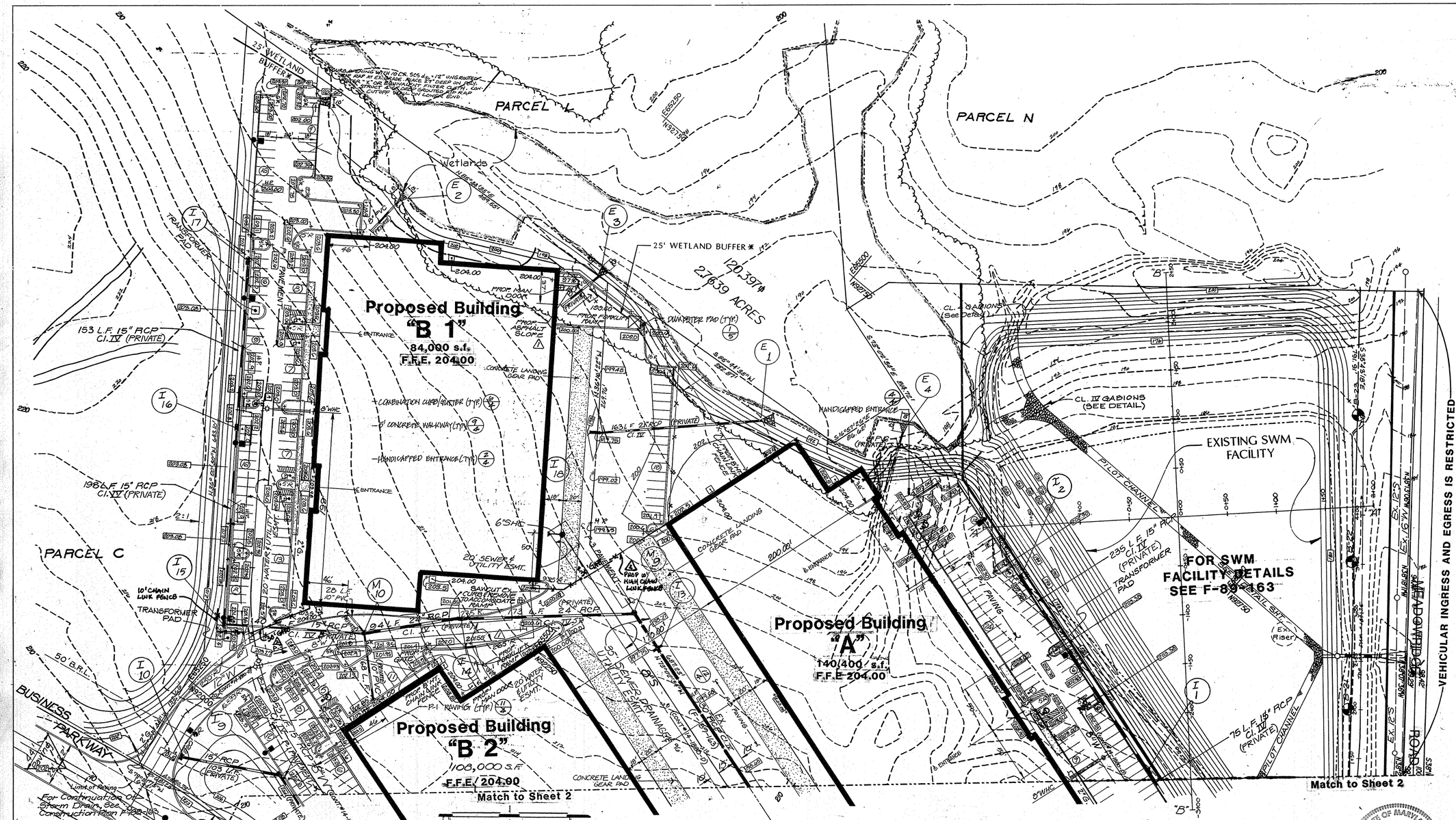
No.	REVISION	DATE	BY
2	REVISED MAN-DOOR & RAMP TO HC WALK	1-3-91	KRM
1	ADDED 5' WALK & FORKLIFT RAMP	10-16-90	KRM

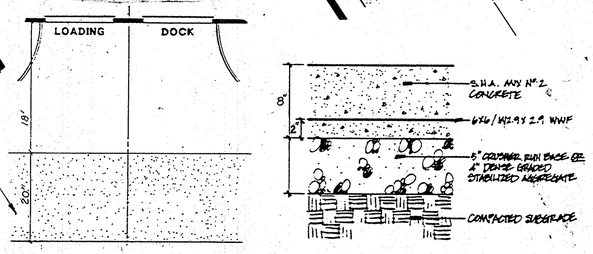
ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SITE PLAN: PARCELS A & B
MEADOWRIDGE BUSINESS PARK
Liber 1419, FOLIO 500 Tax Map 37
P.362 P.178
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37-43
HOWARD CO., MARYLAND

DESIGN: DM	SCALE: 1 = 50'	
DRAWN: RHM	SHEET: 2 OF 14	
CHECKED		
DATE: OCT, 1988	JOB No.	FILE No. B-1101-X

SDP 87-69





12/4 Concrete Landing Gear Pad
SCALE AS INDICATED

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NOTE: Existing Topography from Survey by Greenhorne O'Mara on May, 1988.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16597, Expiration Date: 8/15/15

STATE OF MARYLAND — ROBERT HAROLD MARRON — LIC. NO. 16597 — REGISTERED PROFESSIONAL ENGINEER

3/17/15 FOR REV. #2 ONLY RICHARDSON ENGINEERING, LLC

2 * SLIDING GATES TO HAVE KNOX BOX INSTALLED FOR FIRE DEPARTMENT ACCESS

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: FOR PUBLIC WATER/PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/14/89
CHIEF, BUREAU OF ENGINEERING — DATE 11-14-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 12/8/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/5/89

SEDIMENT CONTROL

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SIGNATURE OF ENGINEER — DATE

REVIEWED FOR _____ HOWARD _____ S.C.D.
AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
HOWARD S.C.D. — DATE

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-9-89

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

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S-88-03	GP-86-46
P-87-44	VP-86-83

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B - BLDG. B-1	6725 BUSINESS PARKWAY
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SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK		A+B

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
9045 + 9046	22	M1	37	1st	6012

WATER CODE — SEWER CODE

Owner/Developer
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

No.	REVISION	DATE	BY
2	10' CHAIN LINK FENCE & GATES	3/17/15	PCR
1	ADDED FORKLIFT RAMPS TO BLDGS. B1 & B2	10-16-90	KRM

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301) 296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SITE PLAN: PARCELS A & B
MEADOWRIDGE BUSINESS PARK
Liber 1419, FOLIO 500 Tax Map 37
P.362 P.178
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37-43
HOWARD CO., MARYLAND

DESIGN	SCALE 1" = 50'		
DRAWN RHM	SHEET 3 OF 14		
CHECKED			
DATE Oct. 1988	JOB No.	FILE No. B-1101-X	

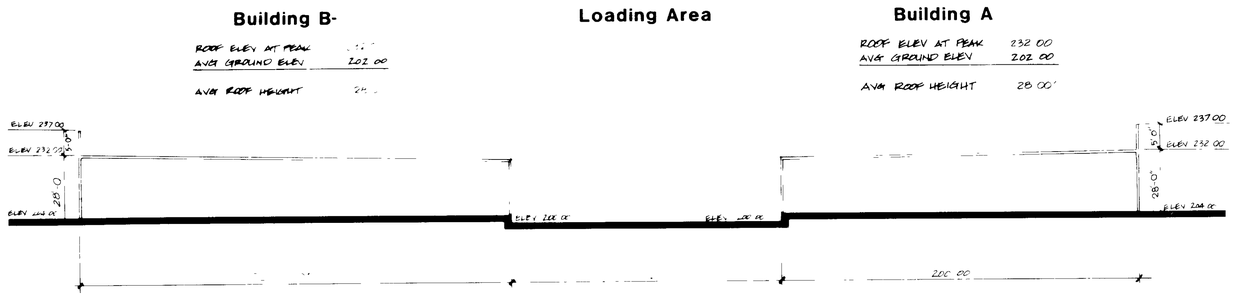
SDP 87-69

HOWARD COUNTY HEALTH DEPARTMENT
APPROVED for Public Water and Public Sewerage Systems
County Health Officer — Date 11/15/89

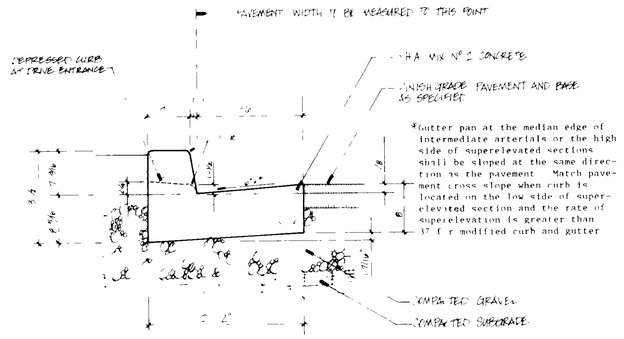
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
APPROVED for Public Water, Public Sewerage, Storm Drainage & Public Roads
Director — Date 11/14/89
Chief, Bureau of Engineering — Date 11-14-89

HOWARD COUNTY DEPT OF PLANNING AND ZONING
APPROVED
Planning Director — Date 12/2/89
Chief, Division of Community Planning & Land Development — Date 12/2/89

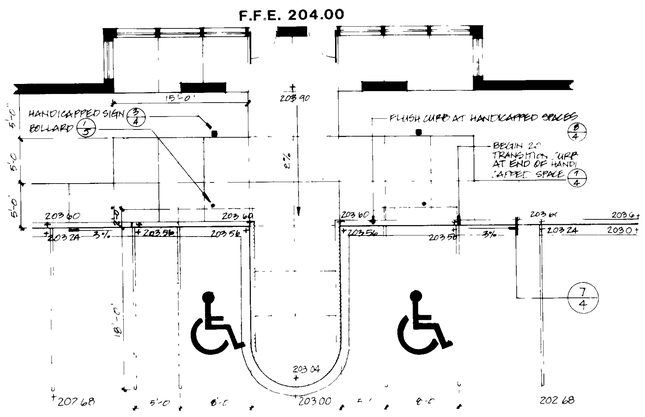
APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 8-9-89



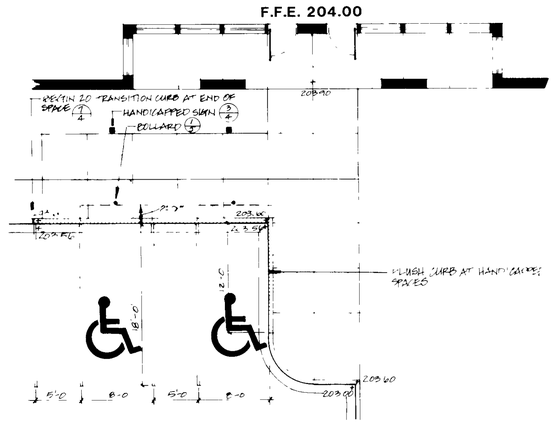
1 (1,2,3) Building Heights: Typical X-Section Looking West
SCALE: 1" = 40'-0"



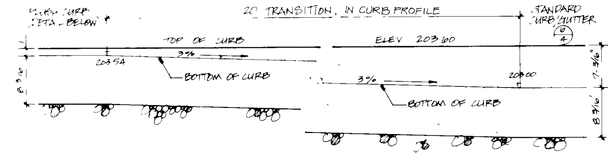
6 (2,3) Combination Curb and Gutter
SCALE: 1" = 1'-0"



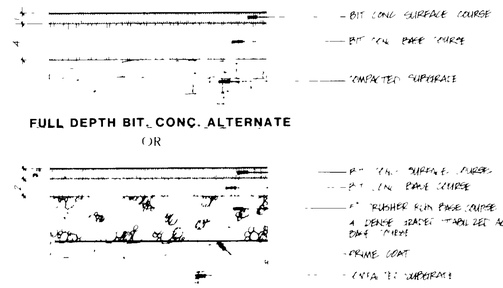
2 (2,3) Handicapped Parking at Building Entrance (typ.)
SCALE: 1/8" = 1'-0"



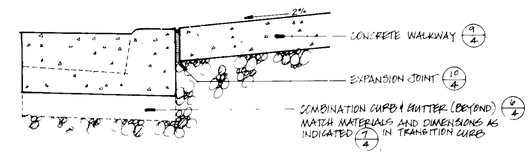
4 (3) Building A: West Entrance
SCALE: 1/8" = 1'-0"



7 (4) Transition Curb Elevation
SCALE: 1" = 1'-0"

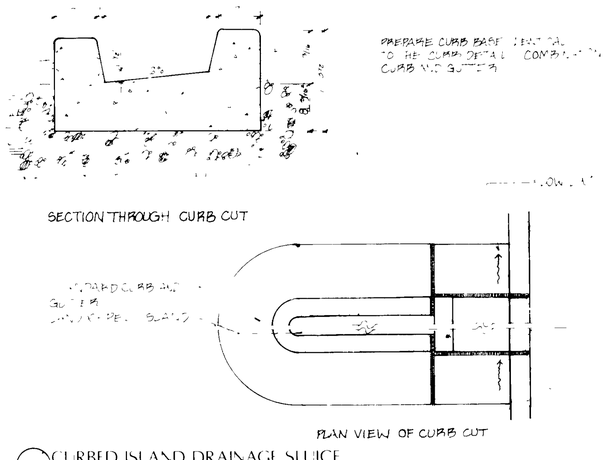


11 (2,3) Paving Sections: P-1
PARKING AREAS

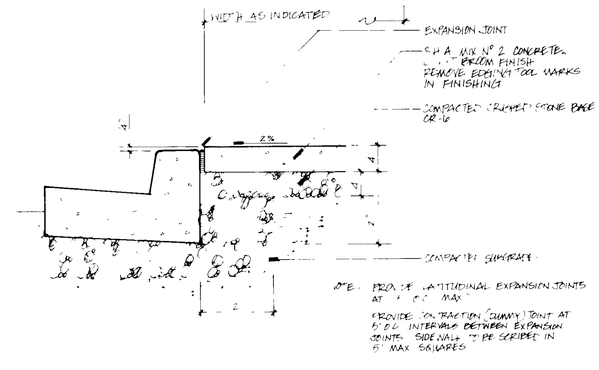


8 (4) Flush Curb (Handicapped Access)

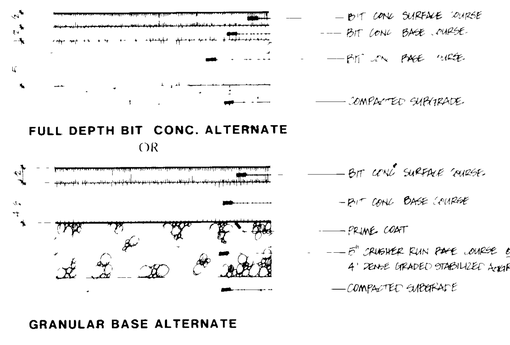
3 (4) Handicapped Parking Sign
NTS



CURBED ISLAND DRAINAGE SLUICE



9 (2,3) Concrete Walkway
SCALE: 1" = 1'-0"



12 (2,3) Paving Sections: P-3
LOADING, ACCESS DRIVES

Owner/Developer
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

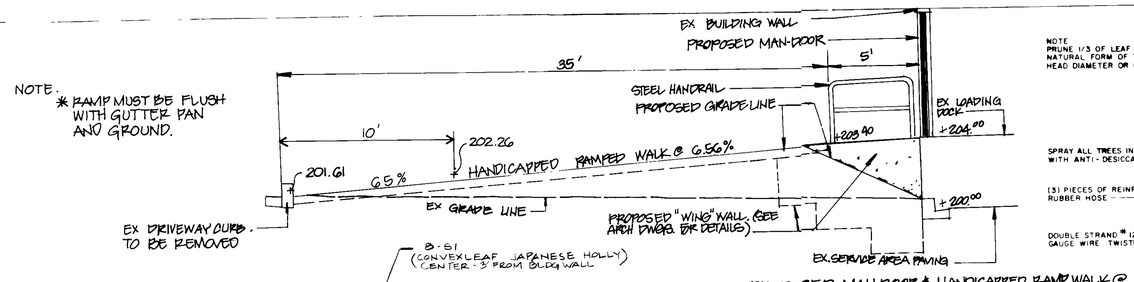
REVISION

GREENHORNE & O'MARA, INC.
113 WEST ROAD SUITE 208 BALTIMORE MARYLAND 21204
(301) 296-4100

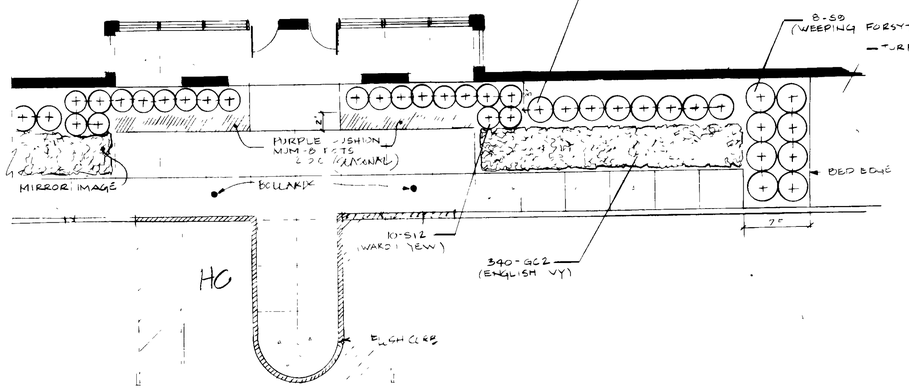
SITE DETAILS: PARCELS A & B
MEADOWRIDGE BUSINESS PARK
Liber 1419, FOLIO 500 Tax Map 37 — P.362 P.178
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37-43
HOWARD CO., MARYLAND

SVB	AS INDICATED	
SVB	4	14
RHM		
OCT, 1988		
DATE	JOB NO.	FILE NO.

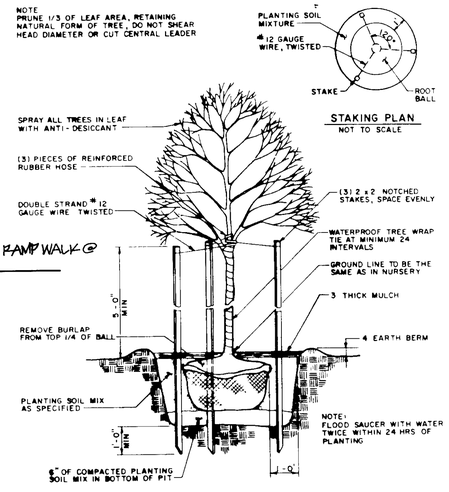
SDP-87-69



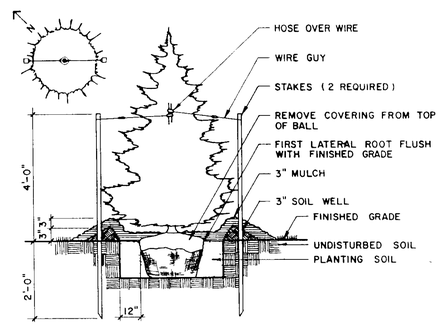
PROPOSED MAN-DOOR & HANDICAPPED RAMP WALK @ BUILDING B2 - SOUTHWALL
SCALE: 1/4" = 1'-0"



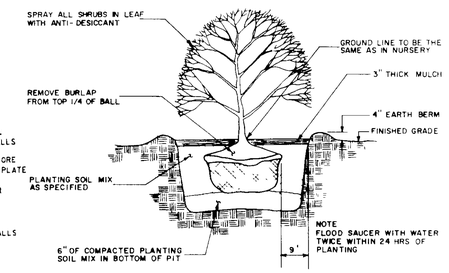
PLANTING DETAIL AT BUILDING ENTRANCE - TYPE A
SCALE: 1/8" = 1'-0"



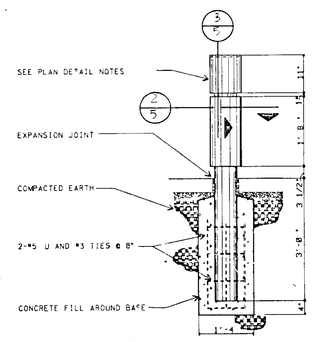
TREE PLANTING DETAIL
NOT TO SCALE



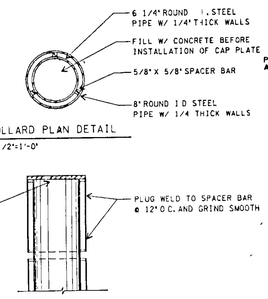
EVERGREEN TREE DETAIL
NTS



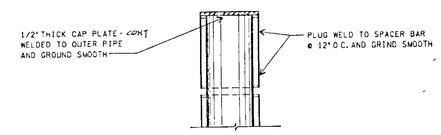
SHRUB PLANTING DETAIL
NOT TO SCALE



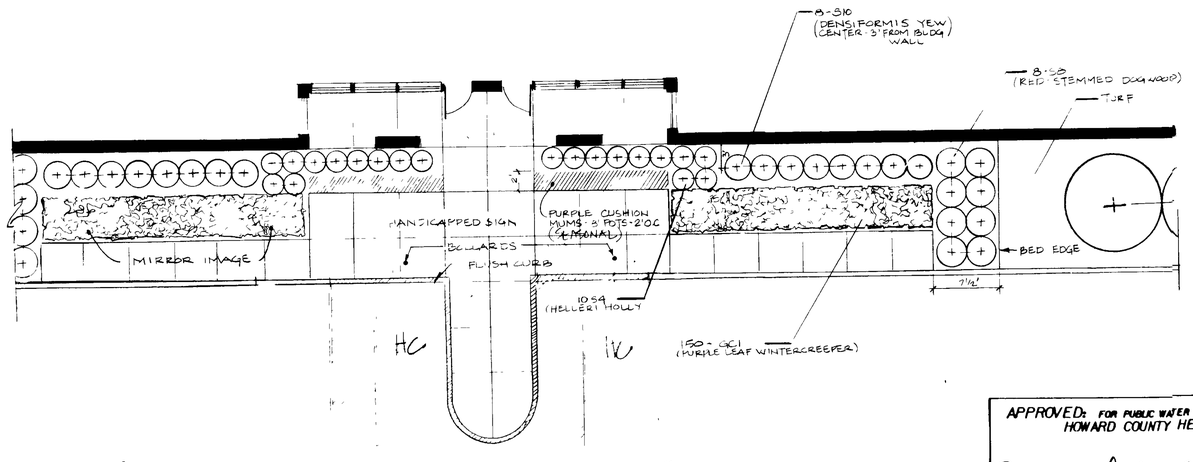
4 BOLLARD INSTALLATION DETAIL
3/4"=1'-0"



2/5 BOLLARD PLAN DETAIL
1 1/2"=1'-0"



3/5 BOLLARD SECTION
1 1/2"=1'-0"



PLANTING DETAIL AT BUILDING ENTRANCE - TYPE B
SCALE: 1/8" = 1'-0"

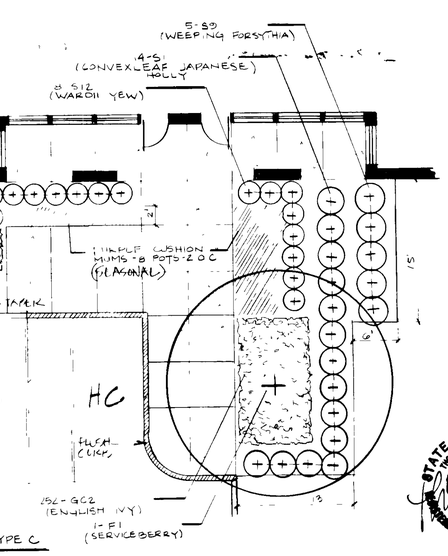
NOTE* PLANT TYPES AT BUILDING ENTRANCES MAY VARY FROM THE ABOVE DETAIL BUT THE PLANTING PATTERN WILL REMAIN THE SAME. REFER TO SHEETS 13 OF 14 & 14 OF 14 FOR PLANT TYPES.

APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY MARYLAND
DATE 8-7-89

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: FOR PUBLIC WATER/PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/14/89
CHIEF, BUREAU OF ENGINEERING — DATE 11/14/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 12/8/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/7/89



PLANTING DETAIL AT BUILDING ENTRANCE - TYPE C
SCALE 1/8" = 1'-0"

STATE OF MARYLAND — THOMAS H. REPETTO — LANDSCAPE ARCHITECT

DAFT McCUNE WALKER INC
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS & SURVEYORS
200 E. PENNSYLVANIA AVE
TOWSON MD. 21204
TELEPHONE (301) 296-3333

Owner/Developer
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, Md. 21046
(301) 381-4444

NO.	REVISION	DATE	BY
	4-6-89 LIGHTING REVISION ISSUED FOR BID	4-6-89	
	BLDG B; PLANTING AND PLANT LIST	5-8-89	AGR
	TITLE BLOCK SHEET NO. SIGNATURE BLOCK	5-31-89	
	REVISED MAN-DOOR & RAMPED WALK DETAIL	10-16-90	KRM
2	REVISED MAN-DOOR & RAMP WALK		

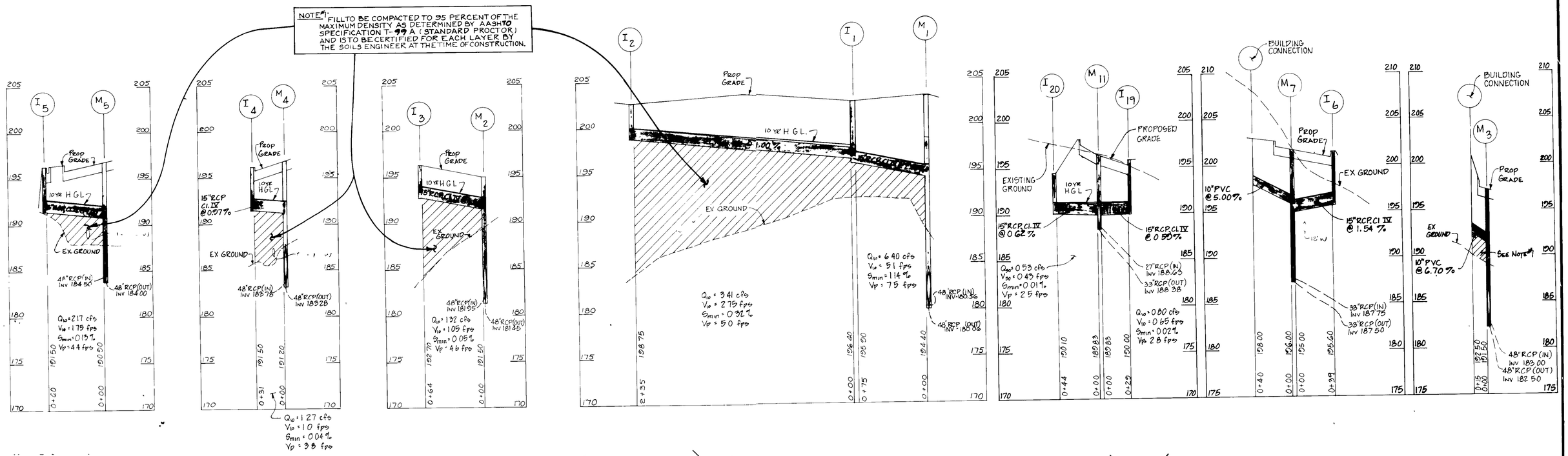
ENGINEERS ARCHITECTS PLANNERS SCIENTISTS
GREENHORNE & O'MARA
113 WEST ROAD, SUITE 2
BALTIMORE, MD. 21204
(301) 296-4500
ANNAPOLIS, MD. ATLANTA, GA. AURORA, CO. CULPEPER, VA. GAITHERSBURG, MD.

PLANTING DETAILS
MEADOWRIDGE BUSINESS PARK
PARCELS A & B
ZONING MAPS 37 & 43
HOWARD COUNTY, MARYLAND

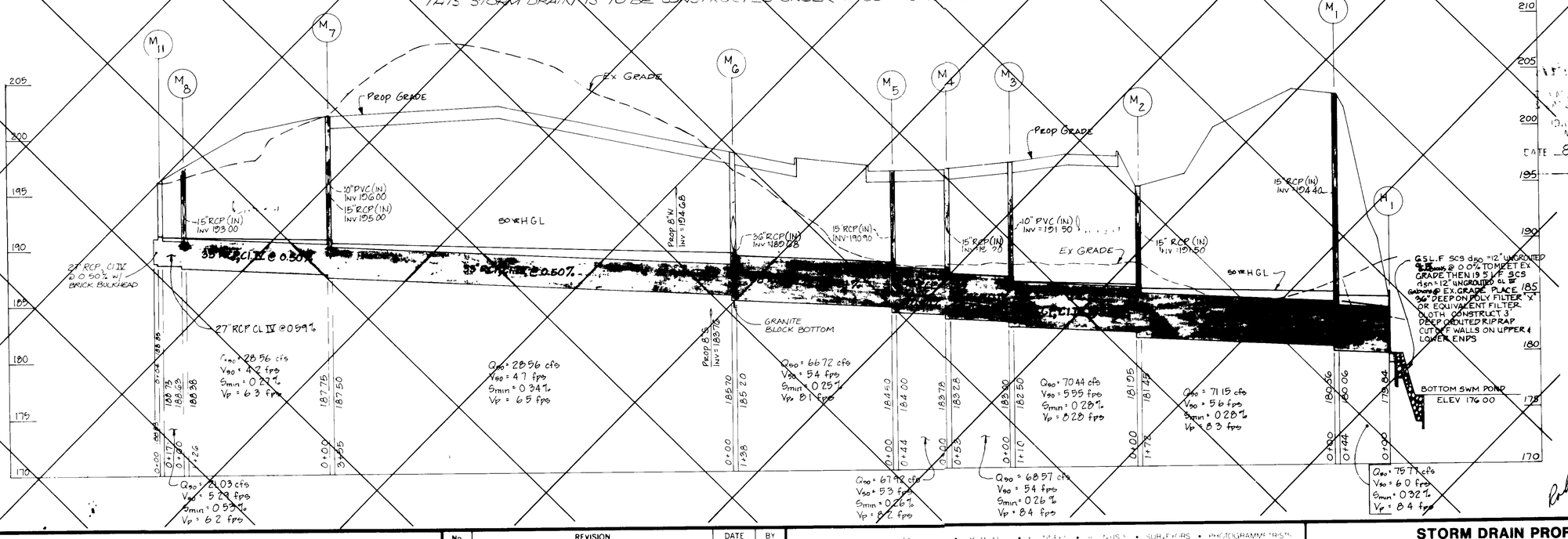
SCALE: AS SHEET — AS SHOWN
DRAWN
CHECKED
SHEET 5 OF 14
DATE OCT./88
JOB NO. 88034

SDP-87-69

NOTE #1: FILL TO BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO SPECIFICATION T-99 A (STANDARD PROCTOR) AND IS TO BE CERTIFIED FOR EACH LAYER BY THE SOILS ENGINEER AT THE TIME OF CONSTRUCTION.



NOT INCLUDED IN THIS SUBMISSION.
THIS STORM DRAIN IS TO BE CONSTRUCTED UNDER F-89-168 MEADOWRIDGE BUSINESS PARK



Note Building Connections are 5' from proposed Building

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 1/14/89
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 1/15/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 12/8/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/7/89

APPROVED
DIVISION OF COMMUNITY PLANNING AND DEVELOPMENT
HOWARD COUNTY MARYLAND
DATE 8-7-87

SEDIMENT CONTROL

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 Natural Resources Approved Training Program for the control of Sediment and Erosion before beginning the project."

Signature of Developer — Date

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 — Date

Reviewed for S.C.D. — Date
Meets Technical Requirements.

U.S. Soil Conservation Service — Date

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

Howard S.C.D. — Date

OWNER/DEVELOPER:
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046
(301) 381-4444

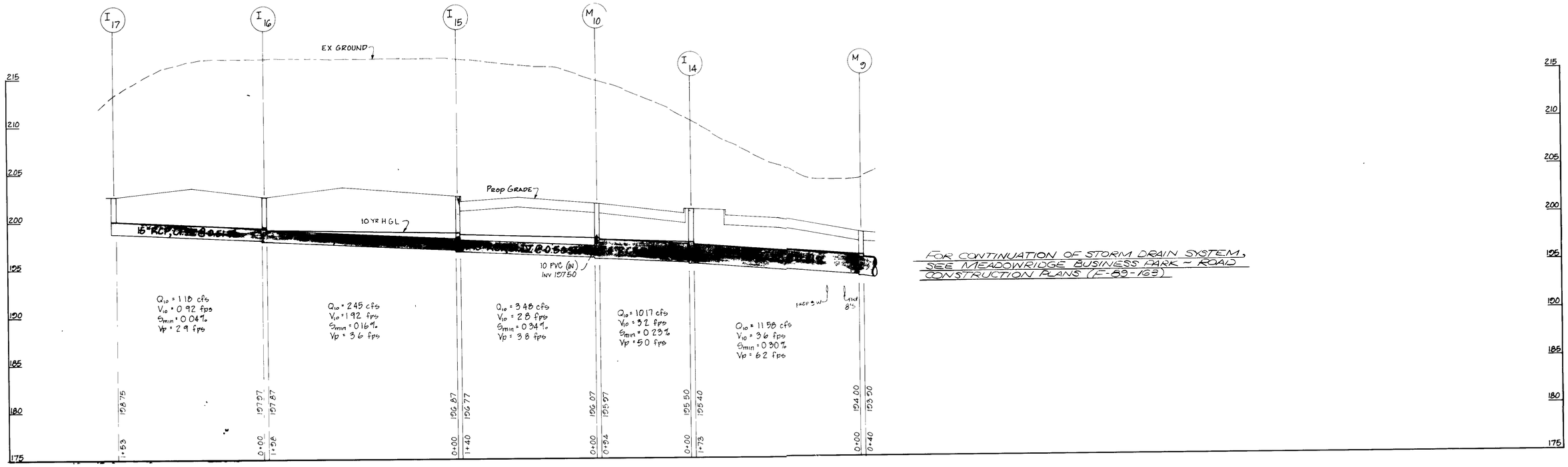
No	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208, BALTIMORE, MARYLAND 21204
(301) 296-4100
ANNAPOLIS MD • ATLANTA GA • AURORA CO • CULPEPER VA • EXPORT PA • FAIRFAX VA
GREENBELT MD • MANASSAS VA • MONROE MI • RALEIGH NC • ROCKVILLE MD • TAMPA FL

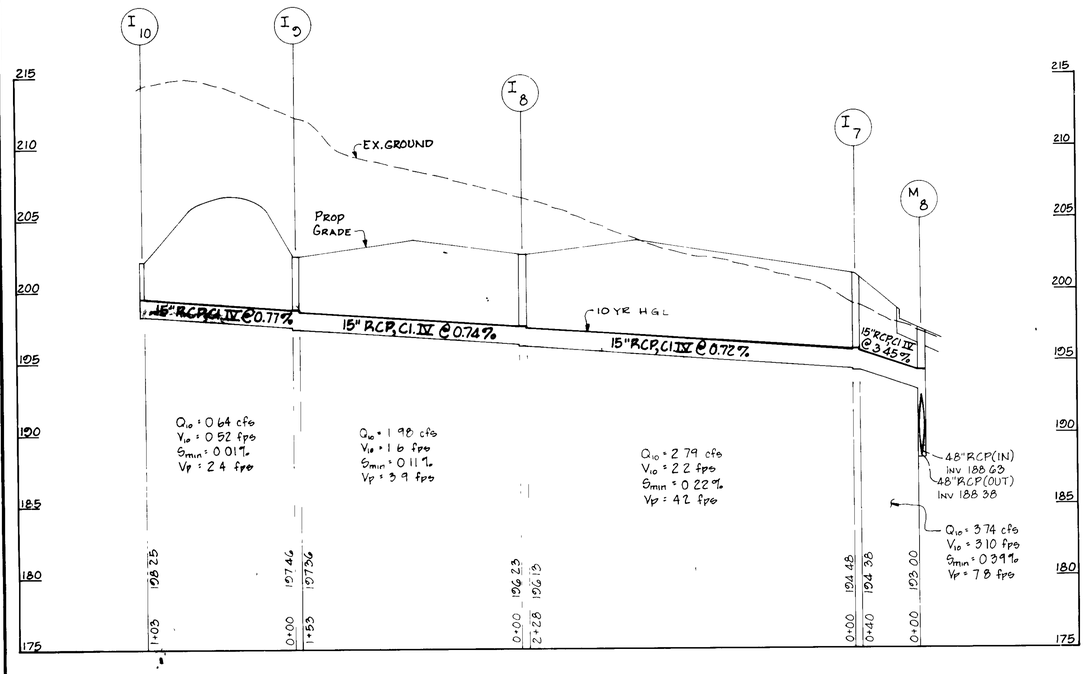
STORM DRAIN PROFILES
PARCELS 'A' & 'B'
MEADOWRIDGE BUSINESS PARK
LIBER 1419, FOLIO 500
ZONE: M-1
1st ELECTION DISTRICT
TAX MAPS 37, P. 362
ZONING MAPS 37-43
HOWARD COUNTY, MARYLAND

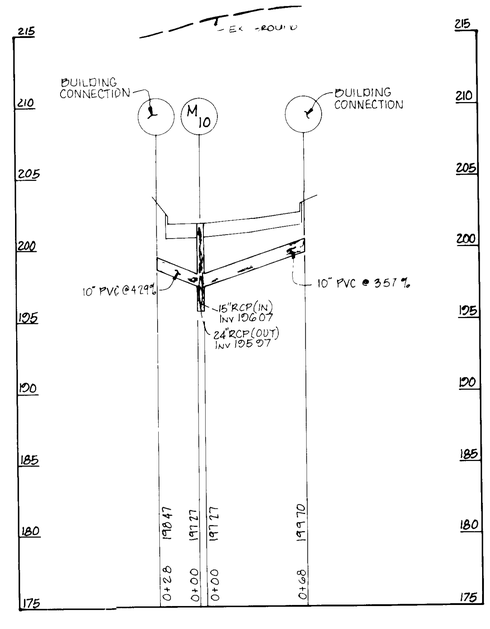
G.E.G. DESIGN	SCALE	HOR 1"=50' VER 1"=5'	
M.T.Y. DRAWN	SHEET	6 OF 14	
R.J.M. CHECKED			
FEB. 1989 DATE	JOB No		FILE No B-1101-X

SDP 89-69



FOR CONTINUATION OF STORM DRAIN SYSTEM, SEE MEADOWRIDGE BUSINESS PARK - ROAD CONSTRUCTION PLANS (F-89-163)





Note Building Connections are 5' from proposed Building

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY
MARYLAND
DATE 8-9-89
J.B.

Robert H. Mannon

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/14/89
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 12/8/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/5/89

SEDIMENT CONTROL

By the Developer:
"I/We certify that all development and construction will be done according to this plan, and that many responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the control of Sediment and Erosion before beginning the project."

Signature of Developer — Date

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 — Date

Reviewed for _____ S.C.D.
Name
and meets technical requirements.

U.S. Soil Conservation Service — Date

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

Howard S.C.D. — Date

Reference:

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

OWNER/DEVELOPER:
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046
(301) 381-4444

No	REVISION	DATE	BY

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
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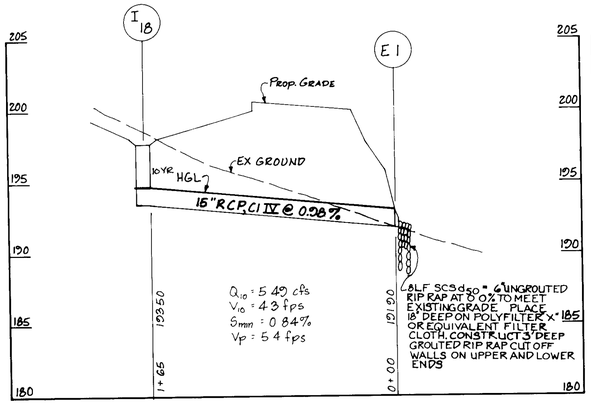
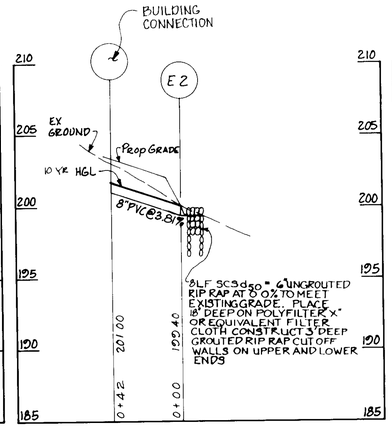
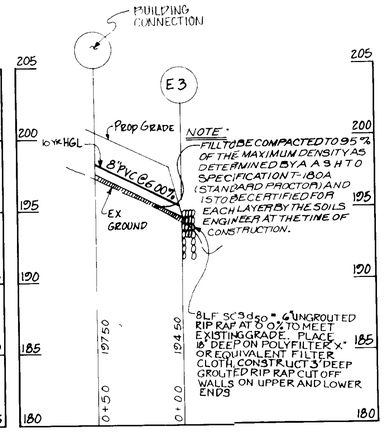
STORM DRAIN PROFILES
PARCELS "A" & "B"
MEADOWRIDGE BUSINESS PARK
LIBER 1419, FOLIO 500
TAX MAPS 37, P. 362
ZONE: M-1
ZONING MAPS 37-43
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

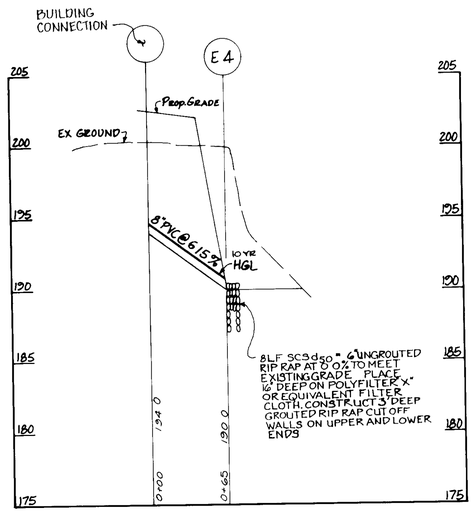
G.E.G. DESIGN	SCALE	HOR 1"=50 VERT 1"=5'	
M.T.Y. DRAWN	7 OF 14		
R.H.M. CHECKED	SHEET		
FEB., 1989 DATE	JOB No	FILE No.	

SDP 89-69

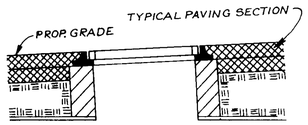


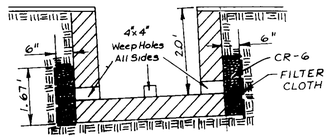




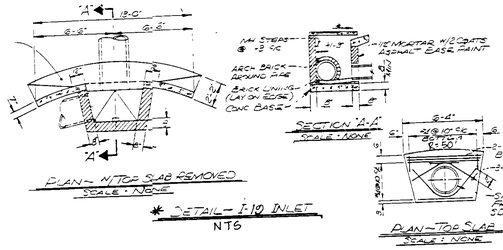


Note Building Connections are 5' from proposed Building

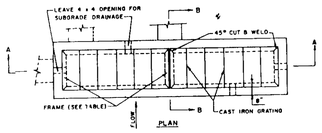


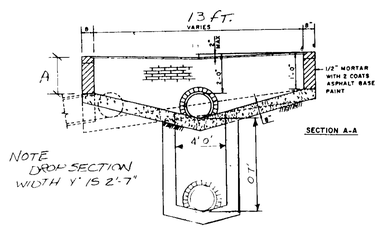


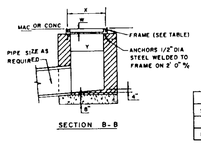
DETAIL TYPICAL SILT TRAPPING INLET
NO SCALE
FOR INLET I-18



** DETAIL - I-10 INLET
NTS







NOTES
1. INVERTS SHALL BE BRICK
2. WALLS CAN BE GRADE MB BRICK, OR MIX NO. 3 CONCRETE
3. TOP 4" OF WALL SHALL BE BRICK MASONRY
4. BOTTOMS SHALL BE MIX #3 CONCRETE
5. MAXIMUM DEPTH OF WALL SHALL BE 3'-6", WHERE OUTLET PIPE REQUIRES GREATER DEPTH, DROP SECTION SHALL BE FORMED AROUND PIPE

	W	X	Y	FRAME ANGLES
S 3"	2' 8"	2' 7"	1' 3"	3 1/2 x 3 1/2 x 3/8"
A 2 1/2"	2' 2"	1' 9"	1' 0"	3" x 2 1/2" x 3/8"
B 1 3/4"	1' 5"	1' 0"	1' 0"	2 x 2 1/2" x 3/8"

** DETAIL - I-18 INLET (NTS)

PIPE SCHEDULE

SIZE	TYPE	LENGTH
8"	PVC	157 LF
10"	PVC	151 LF
15"	RCP, CI IV	1757 LF
24"	" "	367 LF
27"	" "	105 LF

STRUCTURE SCHEDULE

Nº	TYPE	INVERT ELEVATION IN	INVERT ELEVATION OUT	TOP ELEVATION Upper	TOP ELEVATION Lower	REMARKS
I-1	A-5 INLET	196.40	195.90	202	60	HCDPW STD. SD 4.01
I-2	A-5 INLET	—	198.75	202	60	" " "
I-3	A-5 INLET	—	192.70	196	35	" " "
I-4	A-5 INLET	—	191.50	196	20	" " "
I-5	A-5 INLET	—	191.50	196	20	" " "
I-6	A-5 INLET	—	195.60	201	50	" " "
I-7	A-5 INLET	194.48	194.38	201	20	" " "
I-8	A-5 INLET	196.23	196.13	202	60	" " "
I-9	A-5 INLET	197.46	197.36	202	60	" " "
I-10	A-5 INLET	—	198.25	202	15	" " "
I-11	"G" INLET WITH DROP SECTION	190.50	190.40	197	75	HCDPW STD SD 4.15
I-12	"G" INLET WITH DROP SECTION	191.87	191.77	197	75	" " "
I-13	"G" INLET WITH DROP SECTION	193.25	192.75	197	75	" " "
I-14	A-5 INLET	195.50	195.40	201	35	HCDPW STD SD 4.01
I-15	A-5 INLET	196.87	196.77	202	15	" " "
I-16	A-5 INLET	197.97	197.87	202	60	" " "
I-17	A-5 INLET	—	198.75	202	60	" " "
** I-18	"C" INLET WITH DROP SECTION	—	193.50	197	75	HCDPW STD SD 4.15
* I-19	SPECIAL DESIGN	—	190.00	195	94	SEE DETAIL THIS SHEET
I-20	"K" INLET	—	190.10	194	40	HCDPW STD SD 4.13
M-1	BRICK MANHOLE W/ GRANITE BLOCK BOTTOM	184.40 / 180.56	180.06	202	80	HCDPW STD G 5.03
M-2	" " "	181.58 / 181.25	181.45	195	00	" " "
M-3	" " "	181.50 / 182.00	182.50	197	30	" " "
M-4	" " "	181.28 / 183.28	183.28	196	75	" " "
M-5	" " "	181.50 / 184.50	184.00	196	75	" " "
M-6	" " "	185.70	185.20	198	50	" " "
M-7	" " "	196.00 / 195.00 / 187.75	187.50	201	70	HCDPW STD G 5.02
M-8	" " "	195.00 / 188.63	188.38	197	20	" " "
M-9	BRICK MANHOLE	194.00	193.90	198	52	HCDPW STD G 5.01
M-10	" " "	197.50 / 196.07	195.97	201	75	HCDPW STD G 5.01
~~M-11~~	~~" " "~~	~~189.55 / 189.02 / 188.55~~	~~188.75~~	~~196~~	~~40~~	~~HCDPW STD G 5.02~~
~~H-1~~	~~"A" HEADWALL~~	~~179.84~~		~~184~~	~~84~~	~~HCDPW STD SD 3.11~~
E-1	CONCRETE END SECTION	191.90		193	60	HCDPW STD SD 5.52

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/4/89
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
DIRECTOR — DATE 12/8/89
CHIEF, DIV OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/2/89

8-9-89 J.B.

SEDIMENT CONTROL

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 Natural Resources Approved Training Program for the control of Sediment and Erosion before beginning the project."

Signature of Developer — Date

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 — Date

Reviewed for _____ S.C.D. (Name) meets Technical Requirements.

U.S. Soil Conservation Service — Date

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

Howard S.C.D. — Date

Reference:

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

OWNER/DEVELOPER:
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046
(301) 381-4444

No	REVISION	DATE	BY

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
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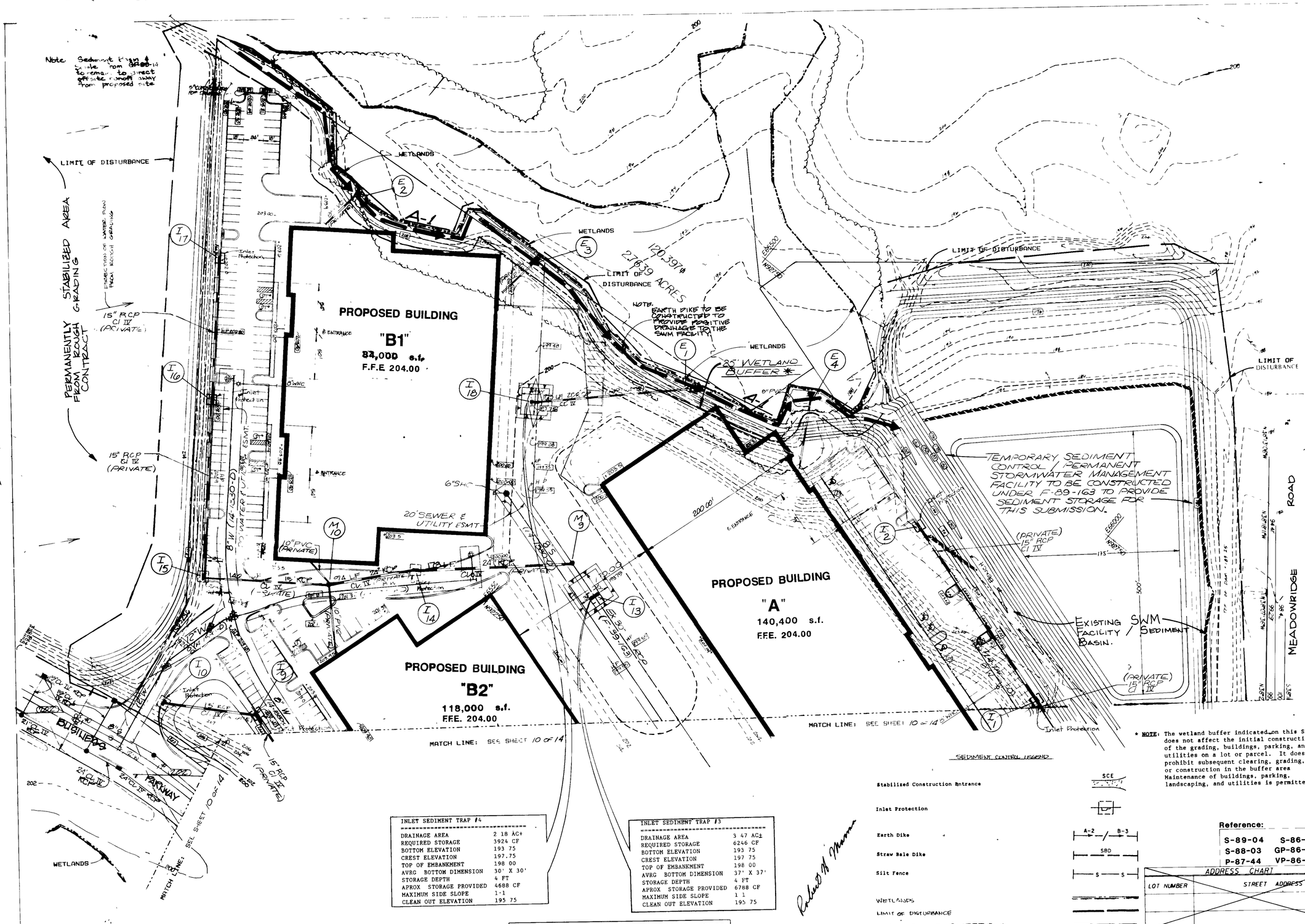
STORM DRAIN PROFILES
PARCELS "A" & "B"
MEADOWRIDGE BUSINESS PARK
LIBER 1419, FOLIO 500
TAX MAPS 37, P.362
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37-43
HOWARD COUNTY, MARYLAND

G.E.G. DESIGN	SCALE HOR 1"=50' VERT 1"=5'
M.T.Y. DRAWN	SHEET 8 OF 14
R.H.M. CHECKED	
DATE FEB. 1989	JOB No / FILE No

SDP 89-69



* **NOTE:** The wetland buffer indicated on this SDP does not affect the initial construction of the grading, buildings, parking, and utilities on a lot or parcel. It does prohibit subsequent clearing, grading, or construction in the buffer area Maintenance of buildings, parking, landscaping, and utilities is permitted

INLET SEDIMENT TRAP #4	
DRAINAGE AREA	2 18 AC±
REQUIRED STORAGE	3924 CF
BOTTOM ELEVATION	193 75
CREST ELEVATION	197.75
TOP OF EMBANKMENT	198 00
AVRG BOTTOM DIMENSION	30' X 30'
STORAGE DEPTH	4 FT
APROX STORAGE PROVIDED	4688 CF
MAXIMUM SIDE SLOPE	1·1
CLEAN OUT ELEVATION	195 75

INLET SEDIMENT TRAP #3	
DRAINAGE AREA	3 67 AC±
REQUIRED STORAGE	6246 CF
BOTTOM ELEVATION	193 75
CREST ELEVATION	197 75
TOP OF EMBANKMENT	198 00
AVRG BOTTOM DIMENSION	37' X 37'
STORAGE DEPTH	4 FT
APROX STORAGE PROVIDED	6788 CF
MAXIMUM SIDE SLOPE	1 1
CLEAN OUT ELEVATION	195 75

SEDIMENT CONTROL LEGEND

Stabilized Construction Entrance	SCE
Inlet Protection	
Earth Dike	A-2 / B-3
Straw Bale Dike	SBD
Silt Fence	S — S
WETLANDS	
LIMIT OF DISTURBANCE	
25' WETLAND BUFFER *	

Reference:

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

ADDRESS CHART								
LOT NUMBER	STREET ADDRESS	SUBDIVISION NAME		SECT./AREA	LOT/PARCEL 362			
		PLAT NO OR L/F	BLOCK NO	ZONE M1	TAX/ZONE MAP 37	ELEC DIST. 1st	CENSUS TR	
		WATER CODE		SEWER CODE				

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

Joyce M Boyd 11/15/89
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD CO. DEPT OF PUBLIC WORKS

11-1-89 DATE
DIRECTOR
11-1-89 DATE
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

12/8/89 DATE
PLANNING DIRECTOR
12/7/89 DATE
CHIEF DIV OF COMMUNITY PLANNING & LAND DEVELOPMENT

SEDIMENT CONTROL

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT MANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
"I ALSO AUTHORIZE THE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
8-31-89
SIGNATURE OF DEVELOPER DATE

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."
Robert H. Mann 8-31-89
SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. AND MEET TECHNICAL REQUIREMENTS.
9-13-89
HOWARD SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
9-26-89
HOWARD S.C.D. DATE

APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
DEVELOPMENT ENGINEERING
DATE 8-9-89

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

NOT FOR BUILDING STAKE-OUT

No.	REVISION	DATE	BY

Owner/Developer

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 206
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SEDIMENT CONTROL PLAN :
MEADOWRIDGE BUSINESS PARK
PARCELS A & B

TAX MAP 37, p. 362, 178
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37&43
HOWARD COUNTY, MARYLAND

DESIGN MF	SCALE 1" = 50'		
DRAWN MF	9 OF 14		
CHECKED RHM	SHEET		
DATE OCT '88	JOB No.	FILE No	

SDP 89-69

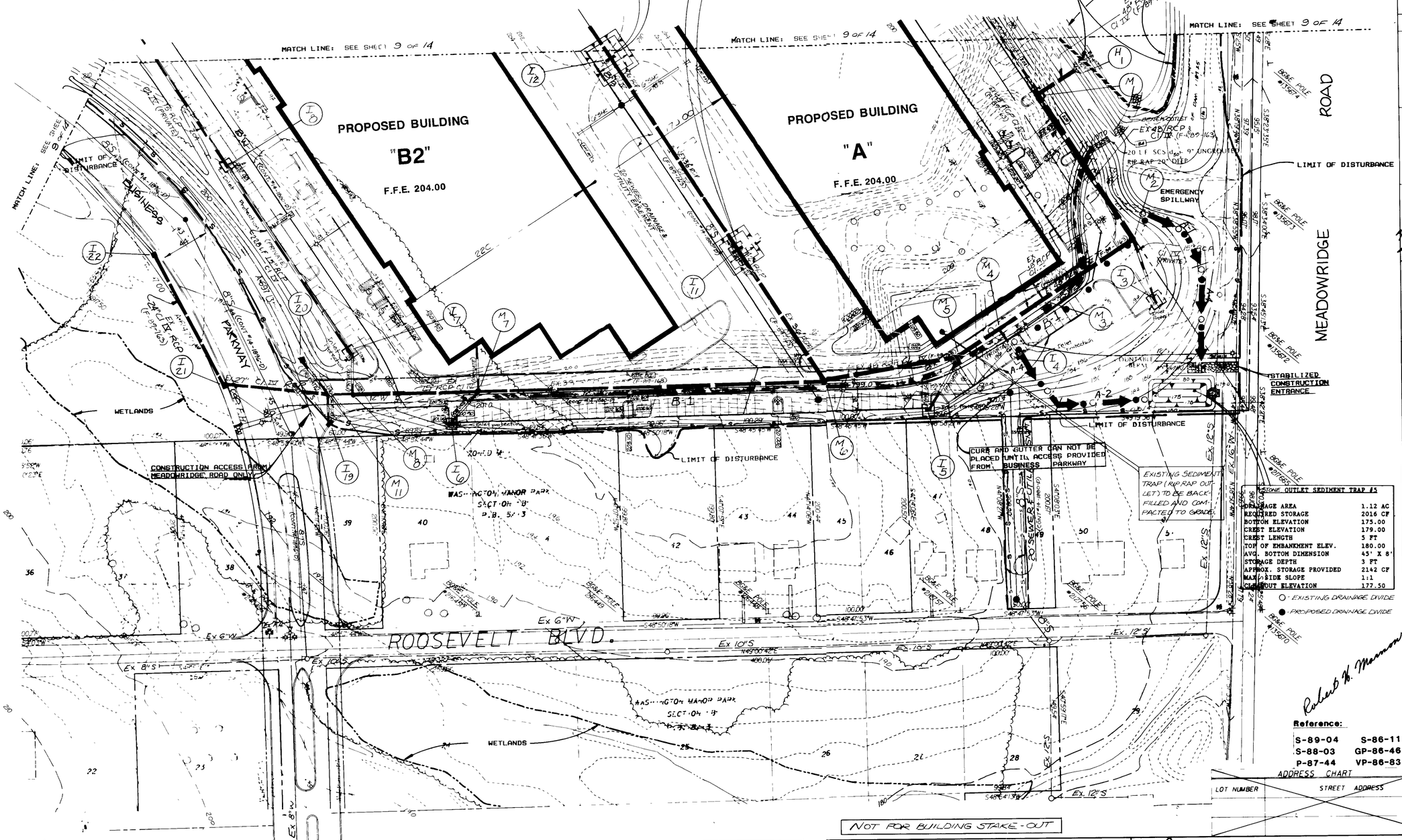
NOTE: EXISTING GRADES ARE TAKEN FROM ROUGH GRADING CONTRACT GP 89-14.

INLET SEDIMENT TRAP #1	
DRAINAGE AREA	2.30 AC±
REQUIRED STORAGE	4146 CF
BOTTOM ELEVATION	193.75
CREST ELEVATION	197.75
TOP OF EMBANKMENT	198.00
AVRG. BOTTOM DIMENSION	30' X 30'
STORAGE DEPTH	4 FT
APROX. STORAGE PROVIDED	4685 CF
MAXIMUM SIDE SLOPE	1:1
CLEAN OUT ELEVATION	195.75

INLET SEDIMENT TRAP #2	
DRAINAGE AREA	2.91 AC±
REQUIRED STORAGE	5240 CF
BOTTOM ELEVATION	194.75
CREST ELEVATION	197.75
TOP OF EMBANKMENT	198.5
AVRG. BOTTOM DIMENSION	35' X 35'
STORAGE DEPTH	4 FT
APROX. STORAGE PROVIDED	6148 CF
MAXIMUM SIDE SLOPE	1:1
CLEAN OUT ELEVATION	195.75

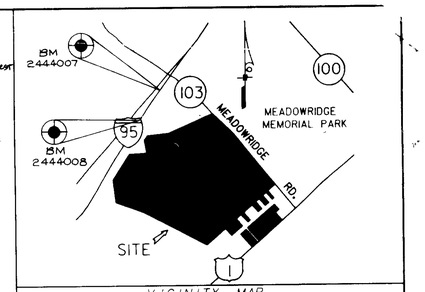
B.M. 2444007 (ELEVATION 252.125)
NORTHING 493871.217 EASTING 863850.085
1 MILE NORTHEAST OF ACCESS RTE 175 AND 0.50 MILE SOUTHWEST OF RTE 100 EXIT ABOUT 475' SOUTH OF THE NORTHBOUND LANES OF I-95 (A KEBAR MONUMENT APPROX 0.10' BELOW GROUND.)

B.M. 2444008 (ELEVATION 248.810)
NORTHING 493163.007 EASTING 863337.082
0.80 MILE NORTHEAST OF ACCESS RTE 175 ABOUT 770' SOUTH OF THE NORTHBOUND LANES OF I-95 (A KEBAR MONUMENT APPROX 0.10' BELOW GROUND)



STONE OUTLET SEDIMENT TRAP #3	
DRAINAGE AREA	1.12 AC
REQUIRED STORAGE	2016 CF
BOTTOM ELEVATION	175.00
CREST ELEVATION	179.00
CREST LENGTH	5 FT
TOP OF EMBANKMENT ELEV.	180.00
AVG. BOTTOM DIMENSION	45' X 8'
STORAGE DEPTH	3 FT
APPROX. STORAGE PROVIDED	2142 CF
MAXIMUM SIDE SLOPE	1:1
CLEAN OUT ELEVATION	177.50

○ - EXISTING DRAINAGE DIVIDE
● - PROPOSED DRAINAGE DIVIDE



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joyce M Boyd for per 8 Sm — 11/15/89
COUNTY HEALTH OFFICER — DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 11/14/89 DATE
CHIEF, BUREAU OF ENGINEERING — 11/14/89 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 12/8/89 DATE
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE

SEDIMENT CONTROL

BY "THE DEVELOPER"

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT MANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

"I ALSO AUTHORIZE THE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE

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."

Roland R. Marmon — 8-31-89
SIGNATURE OF ENGINEER — DATE

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

J. Helm Jr — 9-13-89
FOR SOIL CONSERVATION SERVICE — DATE

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

HOWARD S.C.D. — 9-13-89 DATE

APPROVED
DEPARTMENT OF PLANNING & ZONING
8-7-89
1B.

Reference:

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

ADDRESS CHART

LOT NUMBER	STREET ADDRESS

AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
		362

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELEC DIST	CENSUS TR.
		M-1	37	1st	

WATER CODE — SEWER CODE

Owner/Developer
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, Md. 21046
(301) 381-4444

REVISION	DATE	BY

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
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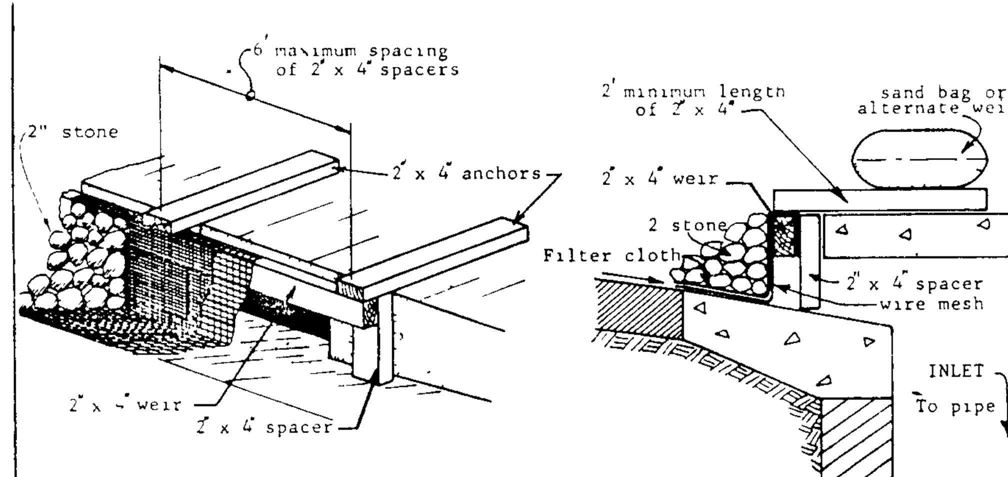
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SEDIMENT CONTROL PLAN : **PARCELS A & B**
MEADOWRIDGE BUSINESS PARK
TAX MAP 37, p. 362, 378
ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37 & 43
HOWARD COUNTY, MARYLAND

TW DESIGN	SCALE 1" = 50'	
MFF DRAWN	10 OF 14	
RHM CHECKED	SHEET	
OCT. '89 DATE	JOB No.	B-11-1 X FILE No.

SDP 89-67

CURB INLET PROTECTION DETAIL



STANDARD SYMBOL

Construction Specifications

I Materials

A Wooden frame is to be constructed of 2" x 4" construction grade lumber

B Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it

C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40-85, to allow sufficient passage of water and removal of sediment

4 Stone is to be 2" in size and clean, since fines would clog the cloth

II Procedure

A A swale, ditchline or yard inlet protection

1 Excavate completely around inlet to a depth of 18" below notch elevation

2 Drive 2 x 4 post 1' into ground at four corners of inlet Place nail strips between posts on ends of inlet Assemble top portion of 2 x 4 frame using overlap joint shown Top of frame (weir) must be 6" below edge of roadway adjacent to inlet

3 Stretch wire mesh tightly around frame and fasten securely Ends must meet at post

4 Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev Fasten securely to frame Ends must meet at post, be overlapped and folded, then fastened down

5 Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides

6 If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it The top of this dike is to be at least 6" higher than the top of frame (weir)

7 This structure must be inspected frequently and the filter fabric replaced when clogged

B. Curb Inlet Protection

1 Attach a continuous piece of wire mesh (30" min width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing

2 Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir

3 Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max 6' apart)

4 Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight

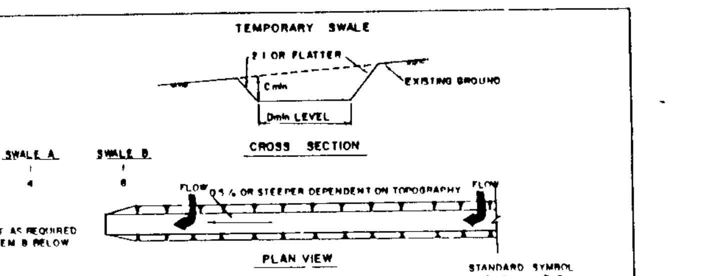
5 The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening

6 Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth

7 This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment

8 Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet

TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

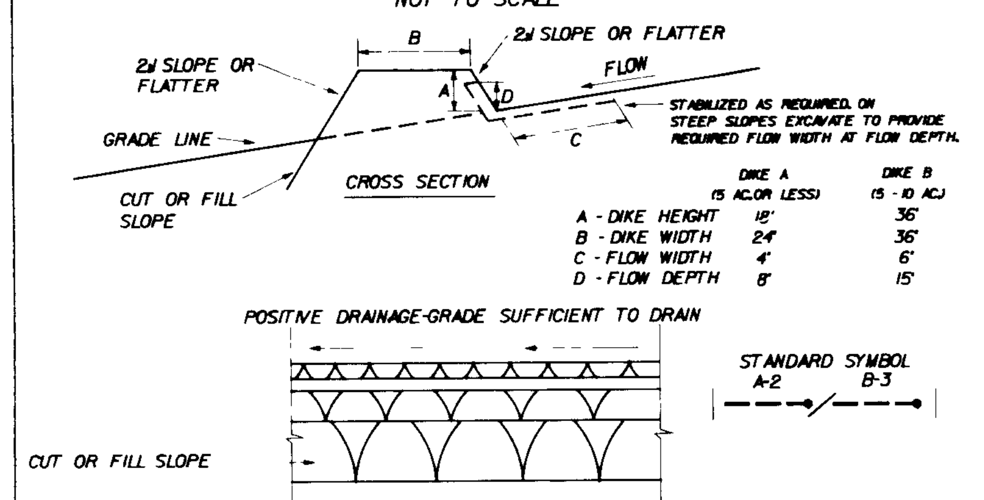
1 All temporary swales shall have uninterrupted positive grade to an outlet
2 Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device
3 Diverted runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at non erosive velocity
4 All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale
5 The swale shall be excavated or shaped to line grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow
6 Fills shall be compacted by earth moving equipment
7 All earth removed and not needed on construction shall be placed so that it will not interfere with the functioning of the swale
8 Stabilization shall be as per the chart below

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	Seed and Straw Mulch	Seed and Straw Mulch
2	3.1-5.0%	Seed and Straw Mulch	Seed using Jute or Excelsior
3	5.1-8.0%	Seed with Jute or Excelsior; Sod	Lined Rip Rap 4-8" Recycled Concrete Equivalent
4	8.1-20%	Lined 4-8" Rip-Rap	Engineered Design

9 Periodic inspection and required maintenance must be provided after each rain event

EARTH DIKE
NOT TO SCALE



	DIKE A (5 AC.OR LESS)	DIKE B (5 - 10 AC.)
A - DIKE HEIGHT	18"	36"
B - DIKE WIDTH	24"	36"
C - FLOW WIDTH	4'	6'
D - FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS

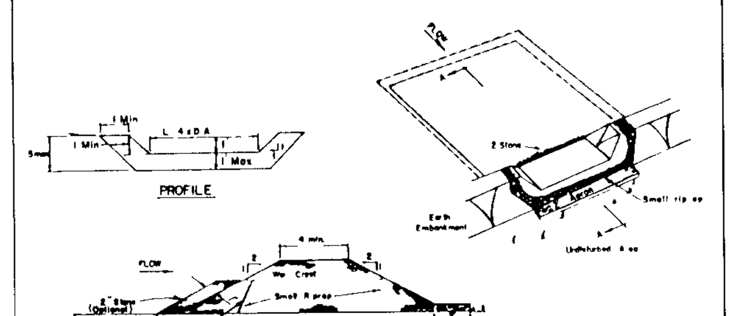
1 ALL DIKES SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT
2 ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET
3 TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC
4 FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET
5 EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED
6 STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON,(B) FLOW CHANNEL AS PER THE CHART BELOW

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE,OR 2" STONE
3	5.1-8.0%	SEED WITH JUTE,OR 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT,IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT
B RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL
C APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS
7 PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

STONE OUTLET SEDIMENT TRAP V

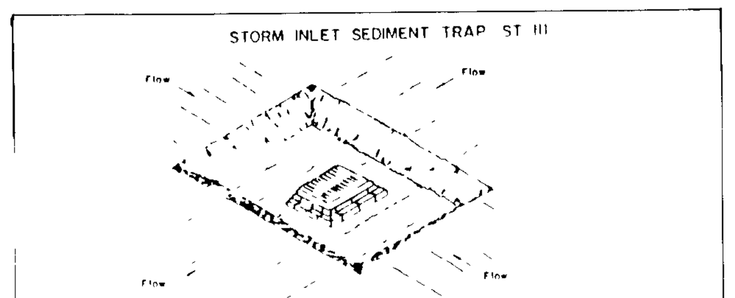


OPTION: A one foot layer of 2 stone may be placed on the upstream side of the riprap in place of the embedded filter cloth

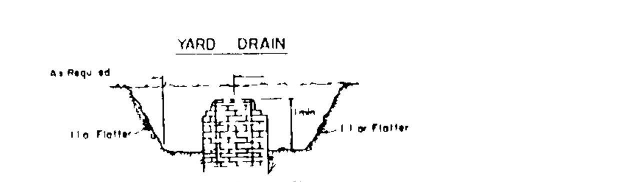
CONSTRUCTION SPECIFICATIONS FOR ST-V

1 Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat The pool area shall be cleared
2 The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material The embankment shall be compacted by traversing with equipment while it is being constructed
3 All cut and fill slopes shall be 2:1 or flatter
4 The stone used in the outlet shall be small riprap 4 -8 along with a 1 thickness of 2 aggregate placed on the up grade side on the small riprap or embedded filter cloth in the riprap
5 Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap
6 The structure shall be inspected after each rain and repairs made as needed
7 Construction operations shall be carried out in such a manner than erosion and water pollution is minimized
8 The structure shall be removed and the area stabilized when the drainage area has been properly stabilized

STORM INLET SEDIMENT TRAP ST III



YARD DRAIN

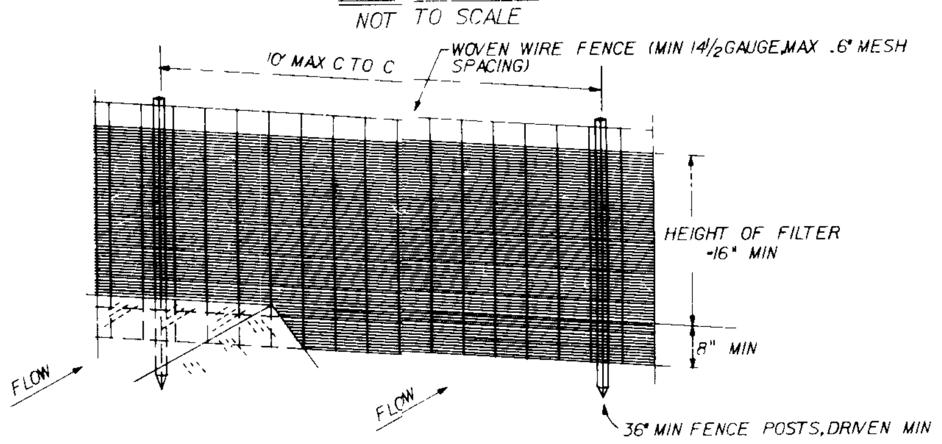


CROSS SECTION

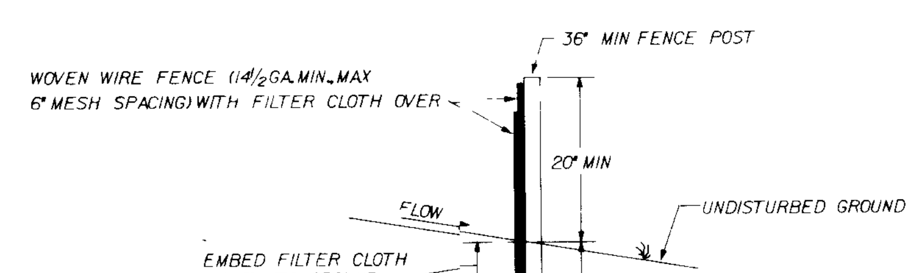
CONSTRUCTION SPECIFICATION FOR ST-III

1 Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode
2 The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage
3 The structure shall be inspected after each rain and repairs made as needed
4 Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized
5 The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized
6 All cut slopes shall be 1 1 or flatter

SILT FENCE
NOT TO SCALE



PERSPECTIVE VIEW



SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1 WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2 FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION
3 WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED
4 MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE,14 GA. 6" MAX MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE,OR APPROVED EQUAL

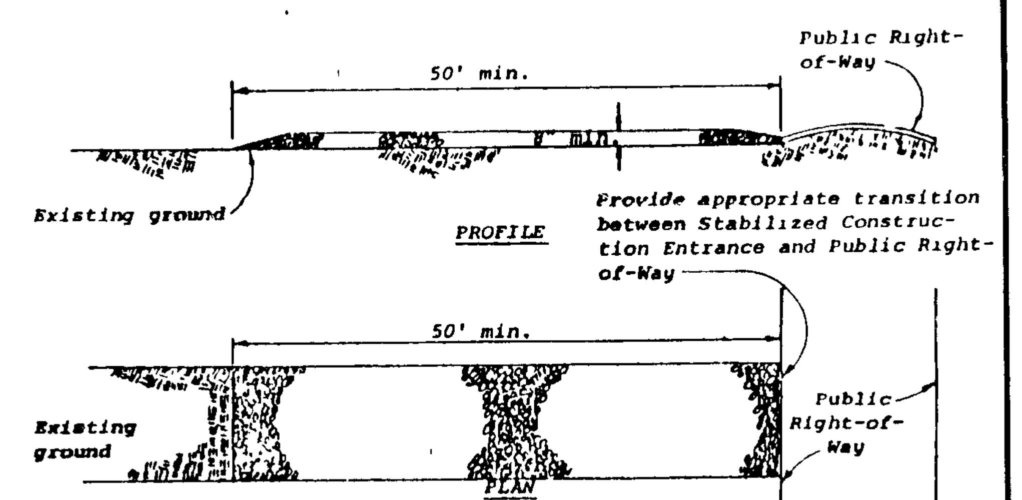
SEQUENCE OF CONSTRUCTION

1 Obtain grading permit
2 Construct stabilized construction entrance as shown on the plan
3 Utilize the existing swale and sediment basin from GP-89-14 to keep drainage from uphill lots from draining onto Parcels A & B Upgrade as required
4 The existing sediment basin constructed under F-89-163 is to be utilized for sediment storage for this site The basin is to be utilized after the reconstruction is completed under F-89-163 This sequence can commence after the basin is regraded and new control structure with temp de-watering device is added
5 Construct the silt fence, earth dike, and stone outlet sediment trap #5 as shown on the plans
6 Begin water, sewer, and storm drain construction and excavation of inlet sediment traps and inlet protection Construct the entire storm drain system except I-2 to M-1 The storm drain from I-2 to M-1 is to be completed when the Building A embankment is completed
7 After the utility construction is complete, place all the remaining sediment control measures
8 Begin the fine grading of the lots providing positive drainage to the inlet traps at the building locations and upgrade temporary swale as necessary to maintain positive drainage to basin Prepare the building pads for buildings B-1 and B-2 first
9 Upon completion of the fine grading the base course of bituminous concrete paving can be placed in the parking areas by the contractor Curb and gutter for the parking areas can also be placed The inlet sediment traps will be back-filled and compacted to grade The contractor must then place filter cloth on the inlet, grade and anchor by placing the straw-bail dikes on top of the filter cloth
10 Stabilize all embankment areas surrounding the perimeter of the parcels by seeding and mulching
11 Upon completion of Building A, stabilize all remaining disturbed areas
12 The contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon, after each rainfall, and on a daily basis
13 Sediment shall be removed from the traps and basin when clean-out elevation has been reached
14 Upon approval by the sediment control inspector and stormwater management inspector, remove the sediment control devices

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.
2 ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMINENT SEDIMENT CONTROL STRUCTURES, DIKES, PERMINENT SLOPES AND ALL SLOPES GREATER THAN 3:1 B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4 ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECOIFIED ABOVED IN ACCORDANCE WITHIN THE 1983 MARY. AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMINENT SEEDINGS (SEC. 51) SOD (SEC 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECCOMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6 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.
7. SITE ANALYSIS:
   - TOTAL AREA OF SITE 18.80 ACRES
   - AREAS DISTURBED 25.06 ACRES (INCLUDES PROP SWM TO BE CONSTRUCTED UNDER F-89-163)
   - AREA TO BE ROOFED OR PAVED 14.58 ACRES
   - AREA TO BE VEGETATIVELY STABILIZED 10.48 ACRES
   - TOTAL CUT 43,300 CU. YDS.
   - TOTAL FILL 40,600 CU. YDS
   - OFFSITE WASTE/ AREA LOCATION: BALANCE
8 ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE
9 ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
10 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 BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

STABILIZED CONSTRUCTION ENTRANCE
(not to scale)



Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

Standard Symbol SCE

APPROVED ... OF ... DEVELOPMENT ... COUNTY ... DATE 8-9-89

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENED.
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

1 Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/100 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/100 sq ft) before seeding Harrow or disc into upper three inches of soil.
2 Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (lbs/1000 sq ft) of weeping lovegrass During the period of October [illegible] thru February [illegible] protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring Option (2) [illegible] seed with 60 lbs [illegible] Kentucky 31 Tall Fescue and mulch with [illegible] straw [illegible] of unrotted [illegible] immediately after seeding Anchor mulch immediately after application [illegible] anchoring [illegible] gallons per acre [illegible] gal/1000 sq ft [illegible] flat areas [illegible] slopes [illegible] 348 gallons per [illegible] ft [illegible] anchoring [illegible] areas and make needed repairs, replacements and reseedings.

TEMPORARY [illegible]

Apply [illegible] cleared [illegible] like [illegible] disturbed where a short-term [illegible] cover is needed.
Seedbed Preparation: [illegible] upper three inches of soil [illegible] raking, discing or other acceptable [illegible] before seeding.
Soil Amendments: Apply 600 lbs per a[illegible] fertilizer [illegible] sq ft

Seeding: For periods March 1 thru April 30 and from August 1 thru November 15, seed with 2 1/2 bushels per acre of annual rye [illegible] sq ft For the period May 1 thru August 14, seed with [illegible] per acre of weeping lovegrass [illegible] lbs/1000 sq ft For the period November [illegible] thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod

Mulching: Apply 1 1/2 to 2 tons per acre & (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre [illegible] gal/1000 sq ft for anchoring

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

APPROVED: FOR PUBLIC WATER,PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO.DEPT.OF PUBLIC WORKS
DIRECTOR — DATE 11/14/89
CHIEF,BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 12/8/89
CHIEF DIV OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE

SEDIMENT CONTROL

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT MANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
"I ALSO AUTHORIZE THE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
SIGNATURE OF DEVELOPER — DATE 8/31/89

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 — DATE 8-31-89

Reviewed for HOWARD S.C.D.
Name
or meets Technical Requirements.
U.S. Soil Conservation Service — Date 9-13-89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard S.C.D — Date 9-12-89

OWNER/DEVELOPER:
MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 OLD COLUMBIA ROAD
COLUMBIA, MARYLAND 21046
(301) 381-4444

No.	REVISION	DATE	BY

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

SEDIMENT CONTROL DETAILS & NOTES

MEADOWRIDGE BUSINESS PARK

PARCELS A & B

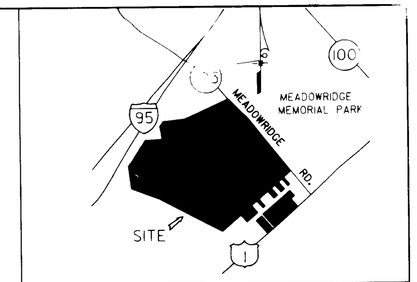
TAX MAP 37, p. 362 P 178

ZONE: M-1
1st ELECTION DISTRICT

ZONING MAPS 37&43
HOWARD COUNTY, MARYLAND

DESIGN MFF | SCALE N/A
DRAWN CADD
CHECKED RHM | SHEET 11 OF 14
DATE OCT '88 | JOB No. | FILE No. E-11 X

SDP 89-69



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT OF PUBLIC WORKS

DIRECTOR — DATE 11-4-89
CHIEF BUREAU OF ENGINEERING — DATE 11-4-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 12/8/89
CHIEF DIV. OF COMMUNITY PLANNING AND DEVELOPMENT — DATE 12/7/89

SEDIMENT CONTROL

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

SIGNATURE OF DEVELOPER — DATE

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 — DATE

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

U.S. SOIL CONSERVATION SERVICE — DATE

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

HOWARD S.C.D. — DATE

8-9-89
JB.

Robert W. Manner

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	STREET NAME	SECT/AREA	LOT/PARCEL
				362
		PLAT NO OR L/F	BLOCK NO-ZONE	TAX/ZONE MAP	ELEC DIST	CENSUS TR
			M1	37	1st	
		WATER CODE		SEWER CODE		

Owner/Developer

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

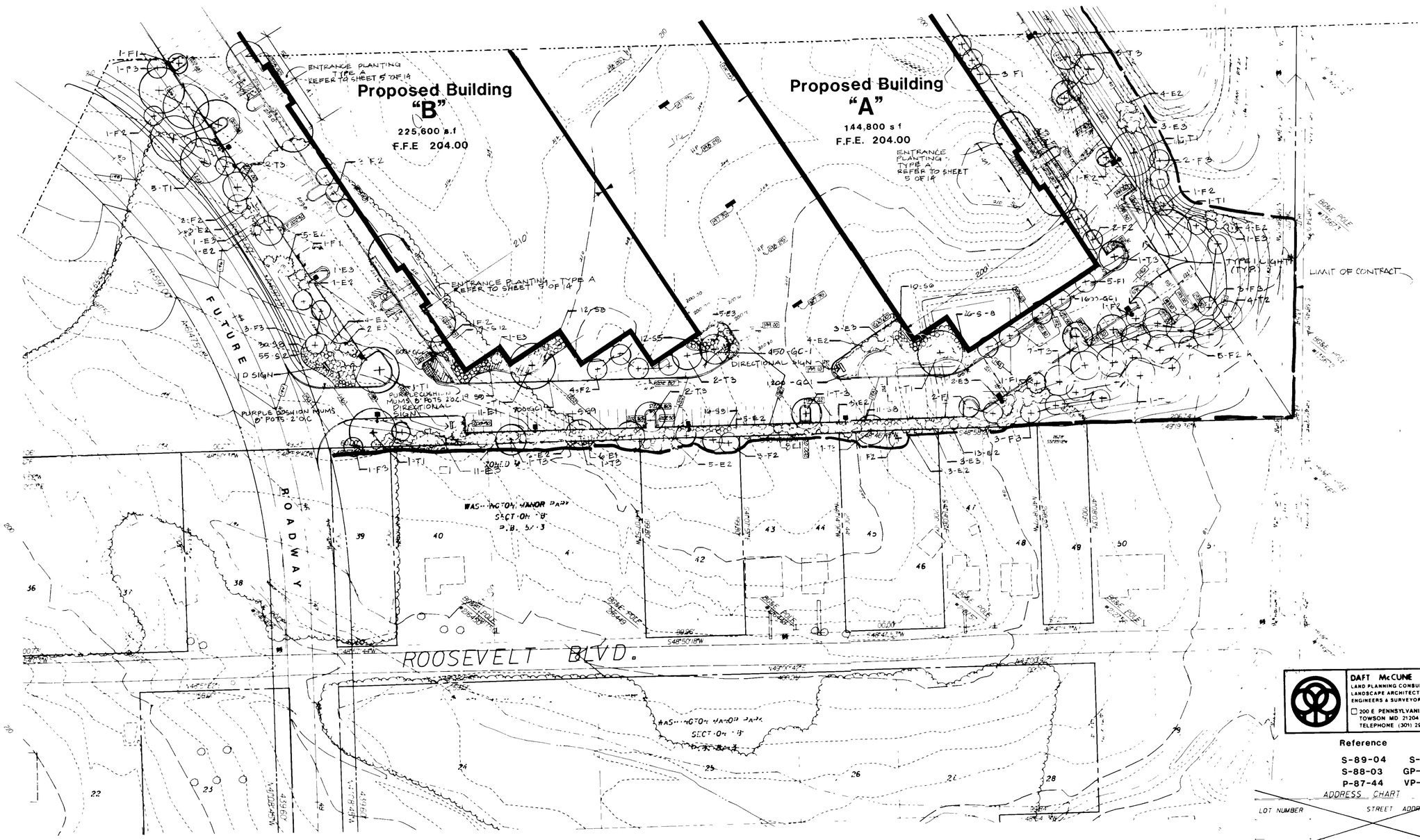
REVISION	DATE	BY

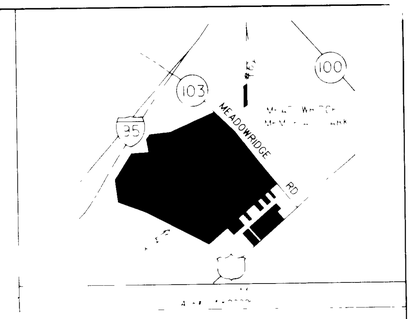
ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

DRAINAGE AREA MAP
PARCELS "A" & B
MEADOWRIDGE BUSINESS PARK
LIBER 1419, FOLIO 500
ZONE: M-1
1st ELECTION DISTRICT
TAX MAPS 37, P. 362 & 178
ZONING MAPS 37-43
HOWARD COUNTY, MARYLAND

GEG DESIGN	SCALE 1" = 100'	
KRM/MFF DRAWN	SHEET 12 OF 14	
RHM CHECKED		
OCT, 1988 DATE	JOB No.	FILE No.

SDP 89-69





LIGHTING

TYPE 1 - BG18E
400 WATT SODIUM VAPOR PENDANT

POLE 30' HT.

~~TYPE 2 - EXTERIOR LIGHTING SYSTEM~~
~~SITE LIGHTS~~
~~SERIES #TOS-12 32-HOWCLI-DBR-120-A~~
~~ASSEMBLED BY MANUF. W/ INLEVING DIODES~~
~~A DIVISION OF EGS INDUSTRIES INC~~

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/1/89
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 11/15/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 12/8/89
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/7/89

9-7-89
J.B.

STATE OF MARYLAND — THOMAS H. REPPERT — REG. NO. 1296 — LANDSCAPE ARCHITECT

DAFT McCUNE WALKER INC
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS & SURVEYORS
200 E PENNSYLVANIA AVE
TOWSON MD 21204
TELEPHONE (301) 296-3333

Reference

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

ADDRESS CHART

LOT NUMBER	STREET ADDRESS

SUBDIVISION NAME	SECT/AREA	LOT/PARCEL
PLAT NO. OR L/F BLOCK NO. ZONE TAX/ZONE MAP ELEC DIST CENSUS TR		362
WATER CODE	M-1 37	1st
SEWER CODE		

Owner/Developer

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, Md. 21046
(301) 381-4444

NO.	REVISION	DATE	BY
4	ADD WASHINGTON MANOR PARK, CLEV. ENTRANCES, LIGHTS	4-1-89	
3	ISSUED FOR BID	6-8-87	AER
2	BLDG B, PLANTING, AND PLANT LIST	8-31-87	
1	TITLE BLOCK, SHEET NUMBER		

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301) 296-6300
ANNAPOLIS, MD ATLANTA, GA AURORA, CO DELAWARE, DE FAIRFAX, VA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD TALLAHASSEE, FL TAMPA, FL

PLANTING & LIGHTING PLAN
MEADOWRIDGE BUSINESS PARK
TAX MAP 37, p. 362 PARCELS A & B

ZONE: M-1
1st ELECTION DISTRICT

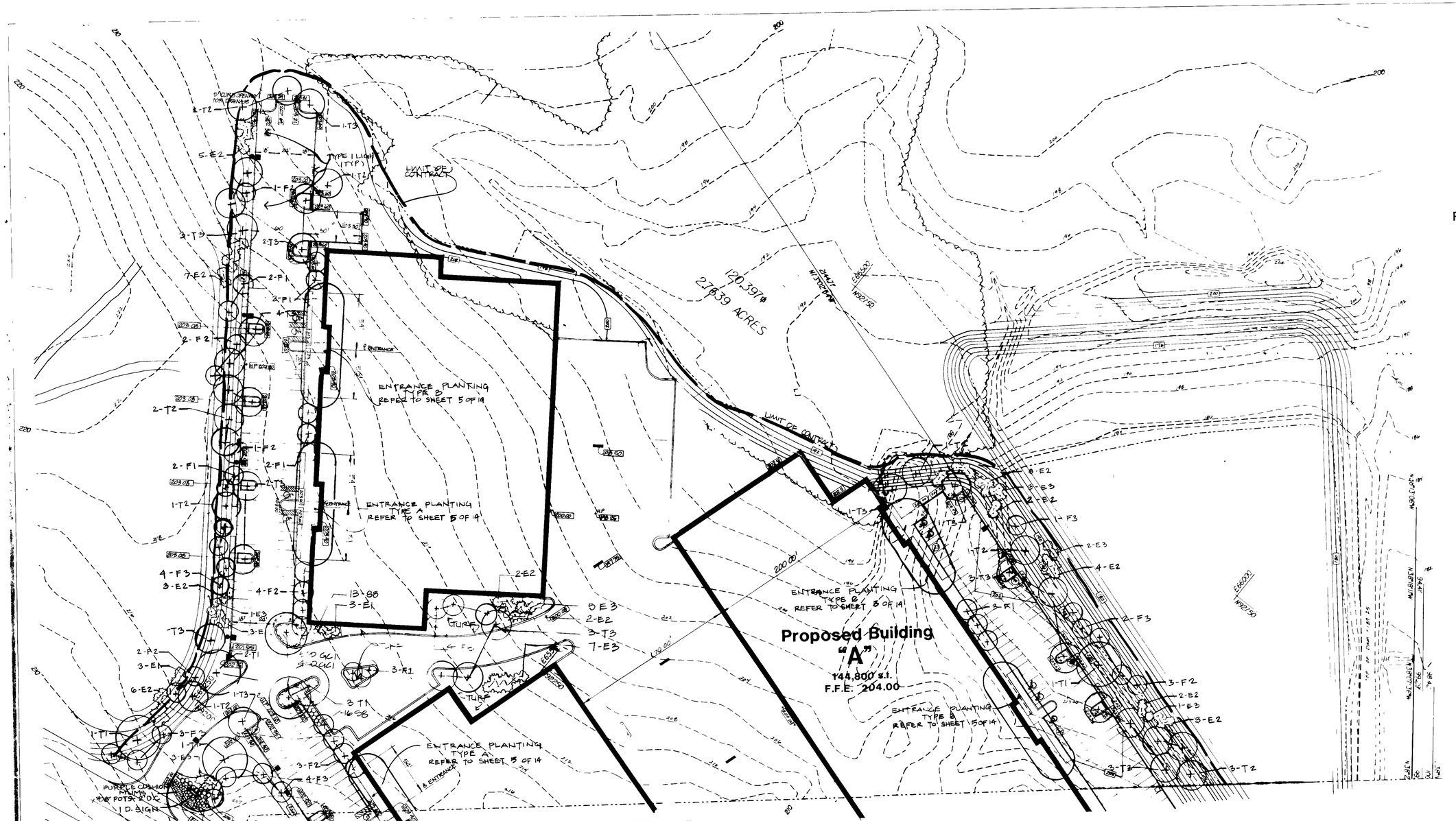
ZONING MAPS 37&43
HOWARD COUNTY, MARYLAND

1" = 50'

13 OF 14

OCT.88 88034

SDP 89-69



PLANT SCHEDULE

KEY	QUANTITY	BOTANICAL NAME/ COMMON NAME	SIZE	ROOT	REMARKS
T-1	21	QUERCUS RUBRA RED OAK	4-1/2"-5-1/2"	B&B	SPECIMAN
T-2	20	LIQUIDAMBAR STYRACIFLUA SWEETGUM	2-1/2"-3"	B&B	
T-3	48	TILIA CORDATA 'GREENSPIRE' 'GREENSPIRE LINDEN'	2-1/2"-3"	B&B	
F-1	33	AMELANCHIER CANADENSIS SERVICEBERRY	10'-12'	B&B	MULTI-ST.
F-2	37	MALUS RADIANT RADIANT CRABAPPLE	1-3/4"-2"	B&B	
F-3	28	CRATAEGUS VIRIDIS 'WINTER KING' WINTER KING HAWTHORN	2"-2-1/2"	B&B	
E-1	36	PICEA ABIES NORWAY SPRUCE	[illegible]	B&B	
E-2	110	PINUS STROBUS EASTERN WHITE PINE	6'-7'	B&B	
E-3	51	PINUS STROBUS EASTERN WHITE PINE	10'-12'	B&B	
S-1	86	ILEX CRENATA CONVEXA CONVEXLEAF JAPANESE HOLLY	24"-30"	B&B	3' O C
S-2	87	JUNIPERUS CONFERTA SHORE JUNIPER	12"-15"	6" CANS	30" O C
S-4	60	ILEX CRENATA HELLERI HELLERI HOLLY	12"-18"	8" CANS	30" O C
S-5	12	VIBURNUM REVTIEOPHYLLUM LEATHERLEAF VIBURNUM	3'-4'	B&B	4' O C
S-6	10	VIBURNUM DILATATUM LINDEN VIBURNUM	3'-4'	B&B	4' O C
S-8	131	CORNUS SERICIA RED-STEMMED DOGWOOD	3'-4'	B&B	4' O C
S-9	112	FORSYTHIA INTERMEDIA SUSPENSA WEEPING FORSYTHIA	2'-3'	B&B	3-1/2' O C
S-10	46	TAXUS CUSPIDATA DENISFORMIS DENISFORMIS YEW	24"-30"	B&B	3' O C
S-12	105	TAXUS MEDIA WARDII WARII YEW	12"-18"	B&B	30" O C
GC-1	5700	EUONYMUS FORTUNEI COLORATUS PURPLE LEAF WINTER CREEPER	9"-12"	1-1/2" POTS	12" O C
GC-2	3812	HEDERA HELIX BALTICA ENGLISH IVY	12"-15	2" 1/4" POTS	8" O C
GC-3	376	CHRYSANT EMUM SP PURPLE CUSHION MUMS	9"-12"	8" POTS	2' O C

8-9-89
J.B.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 11/6/89
CHIEF, BUREAU OF ENGINEERING — DATE 11/6/89

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 12/8/89

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
DIRECTOR — DATE 12/8/89
CHIEF, DIV OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 12/8/89

PLANTING NOTES

1. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, "AMERICAN STANDARDS FOR NURSERY STOCK"
2. CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANTS MATERIALS FOR A PERIOD OF ONE YEAR AFTER INSTALLATION IS COMPLETE AND APPROVED AT THE END OF ONE YEAR ALL PLANT MATERIAL WHICH IS DEAD OR DYING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH PLANT MATERIAL OF IDENTICAL TYPE, SIZE AND CONDITION AS ORIGINALLY SPECIFIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ULTITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND/OR LOCATION OF PLANT MATERIALS TO AVOID CONFLICTS WITH UTILITIES COORDINATE WITH UTILITY CONTRACTOR TO VERIFY 'AS BUILT' LOCATION OF ALL UTILITIES

DAFT McCUNE WALKER INC
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS & SURVEYORS
200 E PENNSYLVANIA AVE
TOWSON, MD 21204
TELEPHONE (301) 296-3333

Reference:

S-89-04	S-86-11
S-88-03	GP-86-46
P-87-44	VP-86-83

STATE OF MARYLAND — THOMAS H. BOWEN — REGISTERED LANDSCAPE ARCHITECT

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART		SUBDIVISION NAME		SECT / AREA	LOT/PARCEL
LOT NUMBER	STREET ADDRESS				362
		PLAT NO OR L/F	BLOCK NO / ZONE	TAX/ZONE MAP	ELEC. DIST / CENSUS TR
			M1	37	1st
		WATER CODE		SEWER CODE	

Owner/Developer

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
10005 Old Columbia Road
Columbia, MD 21046
(301) 381-4444

No.	REVISION	DATE	BY
	4.6.89 HANDICAP PARKING, BLDG ENTRANCES, LIGHTS		
	ISSUED FOR BID	4.12.89	
	BLDG. B, PLANTING, AND PLANT LIST	6.8.89	ASF
	TITLE BLOCK, SHEET NO.	8.31.89	

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301) 296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

PLANTING & LIGHTING PLAN
MEADOWRIDGE BUSINESS PARK
TAX MAP 37, p. 362 PARCELS A & B

ZONE: M-1
1st ELECTION DISTRICT
ZONING MAPS 37&43
HOWARD COUNTY, MARYLAND

DESIGN	SCALE 1" = 50'		
DRAWN	14 OF 14		
CHECKED	SHEET		
DATE OCT./88	JOB No 89-41	FILE No.	

SDP 89-69