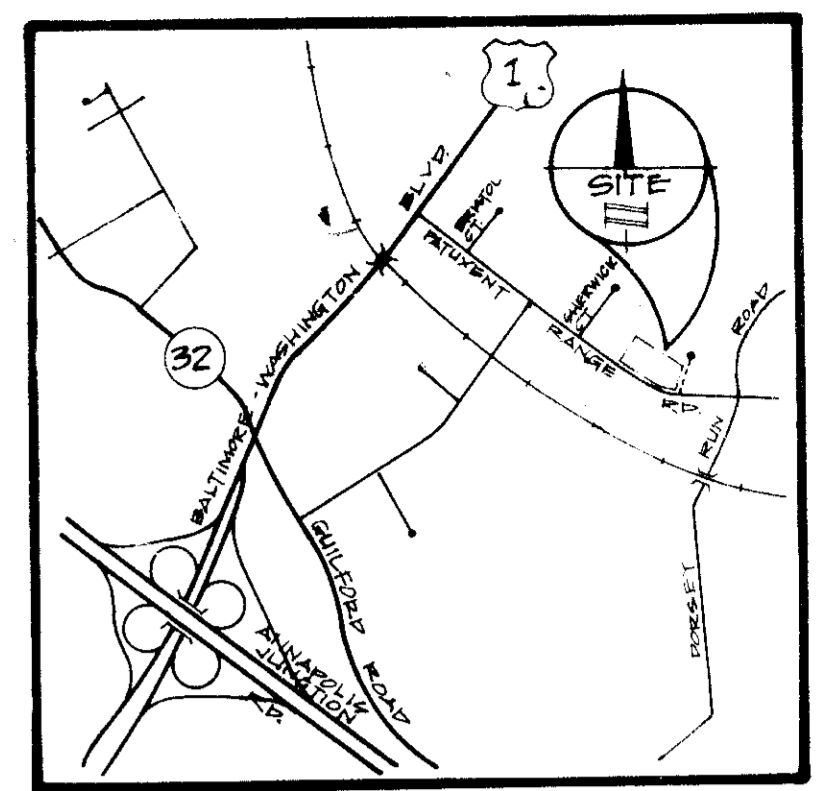
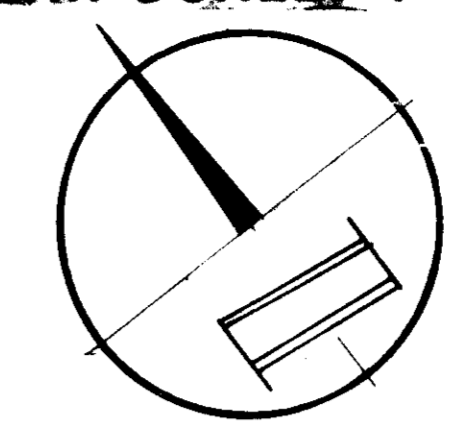


SUBDIVISION NAME BALTIMORE-WASHINGTON INDUSTRIAL PARK		SECT./AREA	LOT/PARCEL #
FLAT # OR L.P. BLOCK #	ZONE	TAX/ZONE MAP ELEC. DIST.	CENGLG TR.
6523	2 M-2	4B	G
WATER CODE		SEWER CODE	
B-02		3020000	

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
N	8820 PATUXENT RANGE DRIVE

PLAN SCALE: 1"=30'



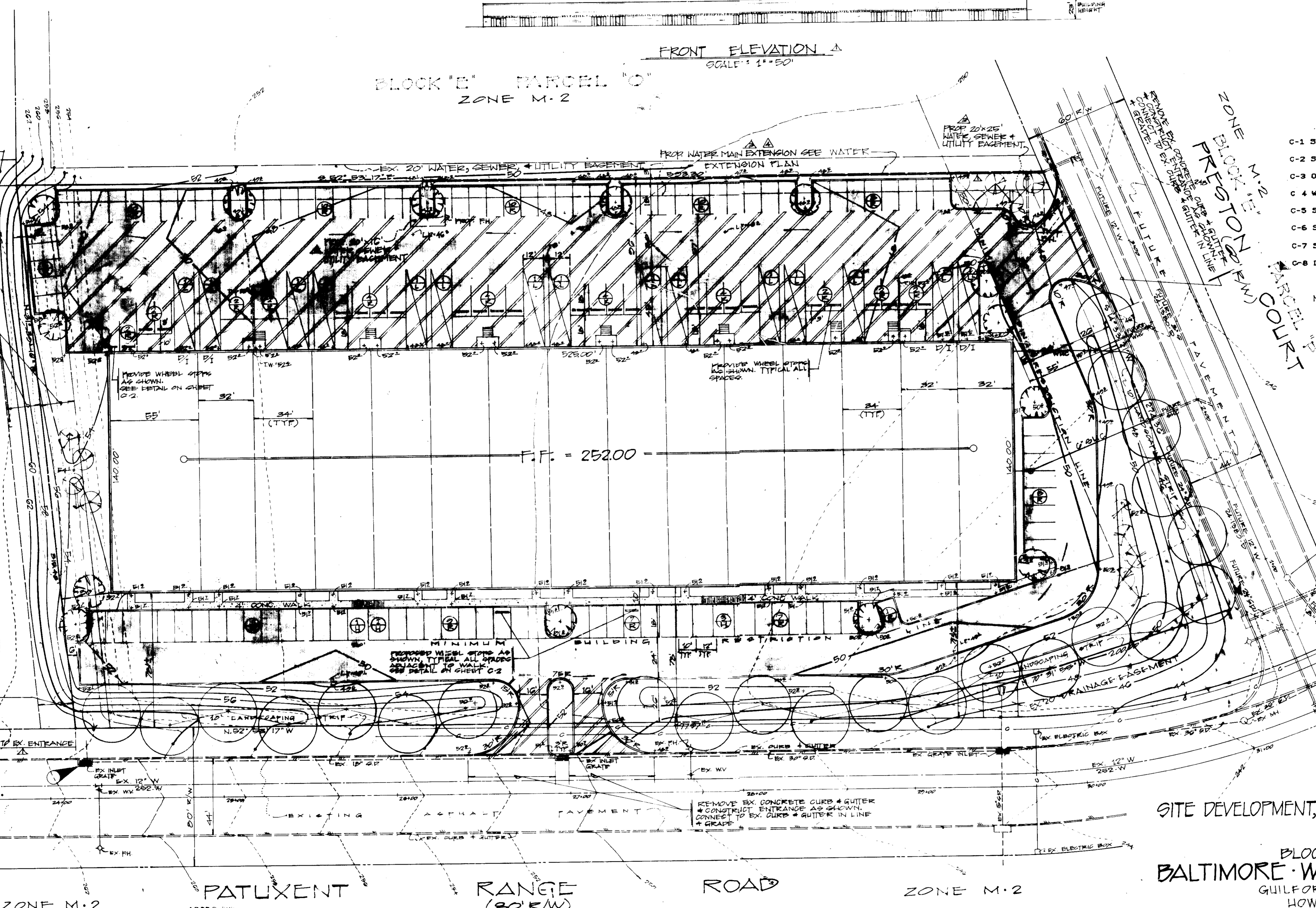
VICINITY MAP  
SCALE: 1"=2000'

BLOCK "E" PARCEL "O"  
ZONE M-2

FRONT ELEVATION  
SCALE: 1"=50'

ROUSE AND ASSOC.  
F.B.40  
BLOCK "E"  
PARCEL "E"  
ZONE M-2

TEACHERS INSURANCE AND ANNUITY ASSOC.  
F.263  
PARCEL "F-1"  
BLOCK "E"  
ZONE M-2



- INDEX TO DRAWINGS
- C-1 SITE DEVELOPMENT, GRADING, ENTRANCE AND PAVING PLAN
  - C-2 SITE DEVELOPMENT AND PAVING NOTES, DETAILS AND CERTIFICATIONS
  - C-3 ON-SITE WATER, SEWER AND STORM DRAIN PLAN
  - C-4 WATER, SEWER AND STORM DRAIN PROFILES, NOTES AND DETAILS
  - C-5 SEDIMENT AND EROSION CONTROL PLAN
  - C-6 SEDIMENT & EROSION CONTROL DETAILS, CERTIFICATIONS AND NOTES
  - C-7 STORM WATER MANAGEMENT PLAN AND DETAILS
  - C-8 DRAINAGE AREA MAP

NOTE: FOR LANDSCAPING NOTES SEE SHEET C-2

LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING PAVEMENT
	BITUMINOUS CONCRETE (LIGHT DUTY)
	BITUMINOUS CONCRETE (HEAVY DUTY)
	CONCRETE PAVEMENT
	EXISTING CONCRETE CURB AND GUTTER
	PROPOSED CONCRETE CURB AND GUTTER
	FUTURE CONCRETE CURB AND GUTTER
	RETAINING WALL

NOTE: FOR SEQUENCE OF CONSTRUCTION, SEE SHEET 1 OF 2 OF THE SEDIMENT CONTROL PLAN [C-5]

OWNER:  
THE SHAPIRO COMPANIES  
8811 KENILWORTH AVENUE  
SUITE 210  
RIVERDALE, MARYLAND 20787  
301-277-7200  
SDP-86-252

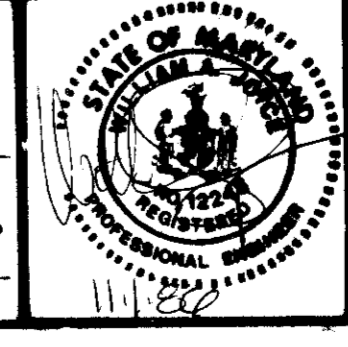
SITE DEVELOPMENT, GRADING, ENTRANCE, AND PAVING PLAN  
TAX MAP 4B  
BLOCK "E" PARCEL "N"  
BALTIMORE-WASHINGTON INDUSTRIAL PARK  
GUILFORD ELECTION DISTRICT NO. 6  
HOWARD COUNTY, MARYLAND

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-10-86

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
DATE 3-19-87

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPT.  
DATE 3-22-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE 3-23-87

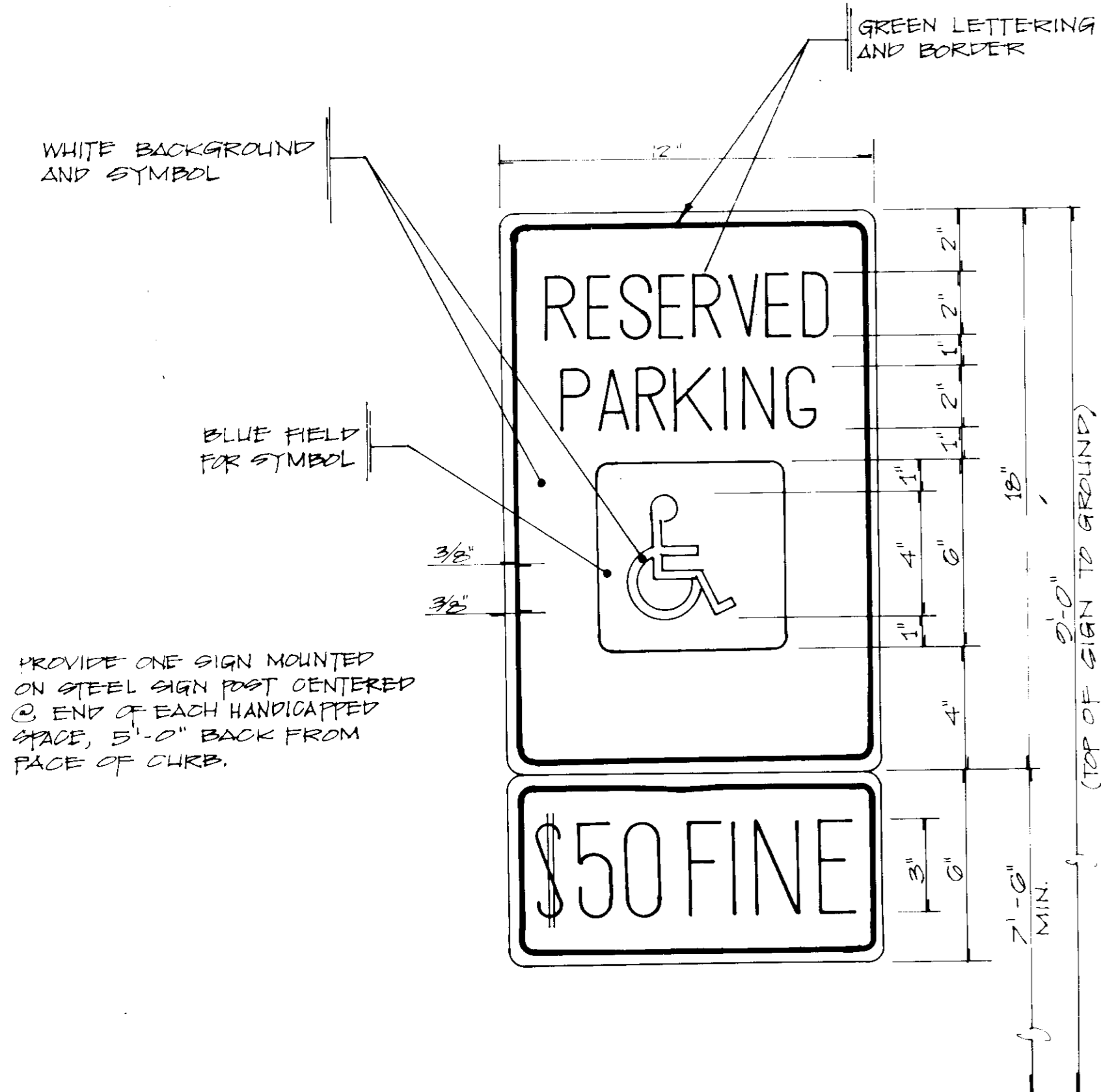


REVISIONS	
02-20-86	ADD 24" DIA. MANHOLE
03-23-87	REVISE TO SHOW 24" DIA. MANHOLE
03-23-87	REVISE TO SHOW 24" DIA. MANHOLE
03-23-87	REVISE TO SHOW 24" DIA. MANHOLE

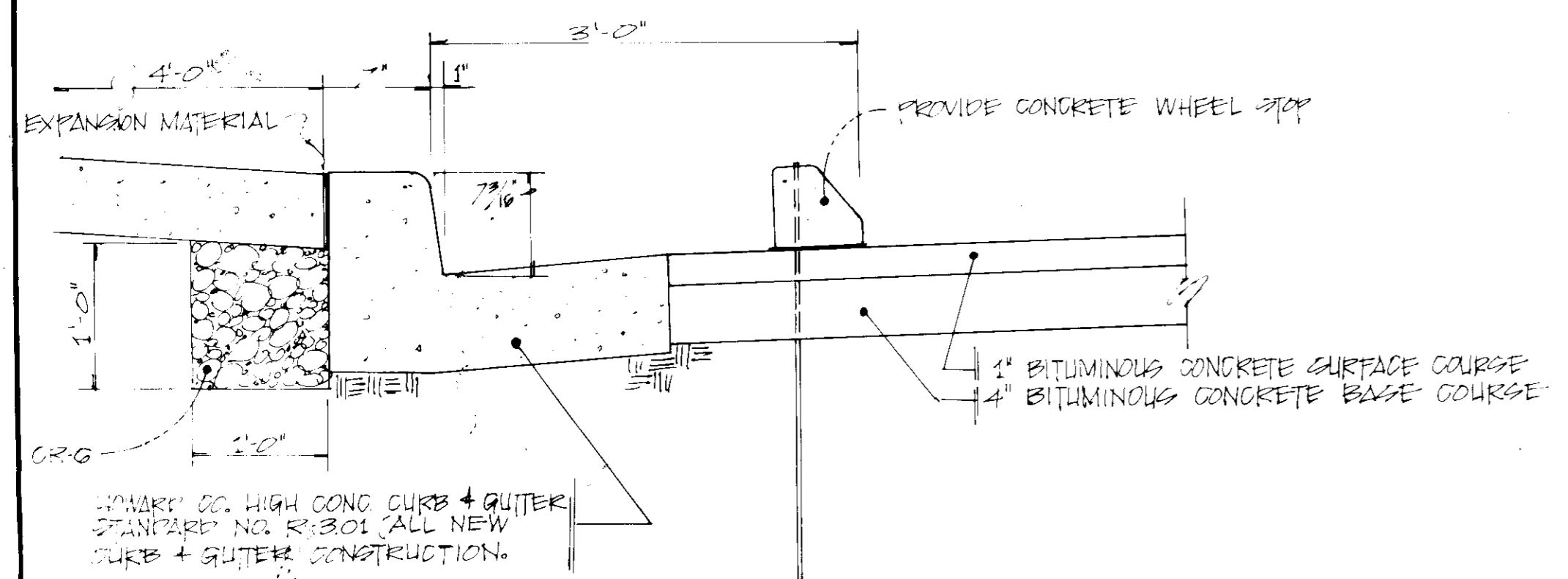
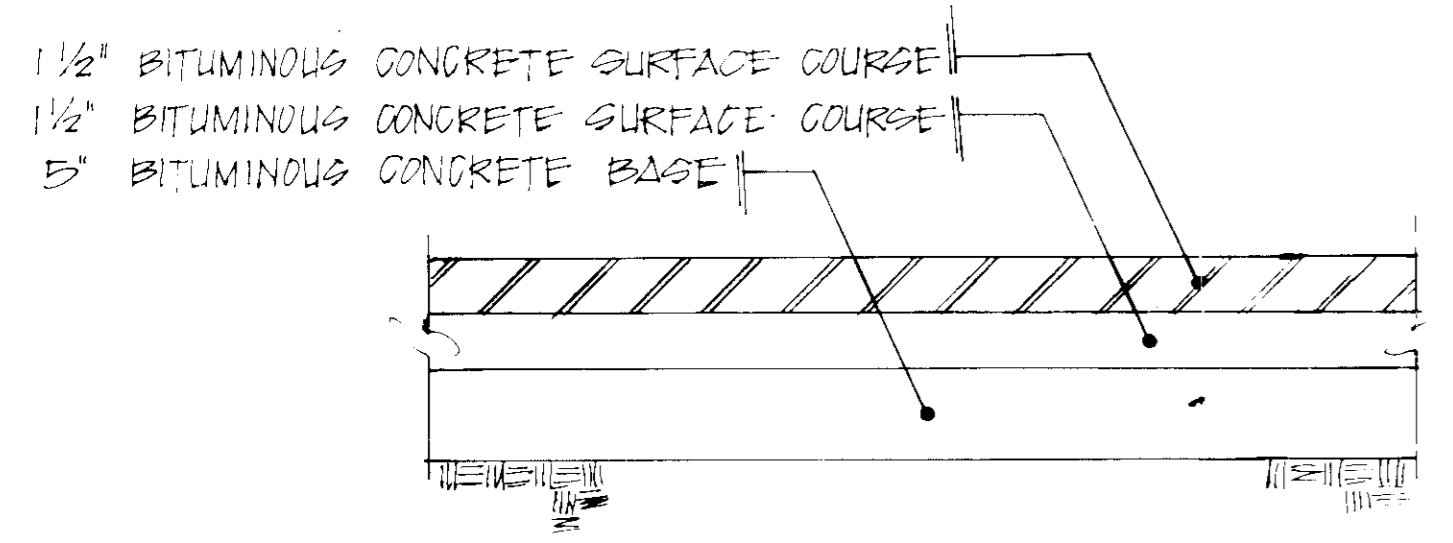
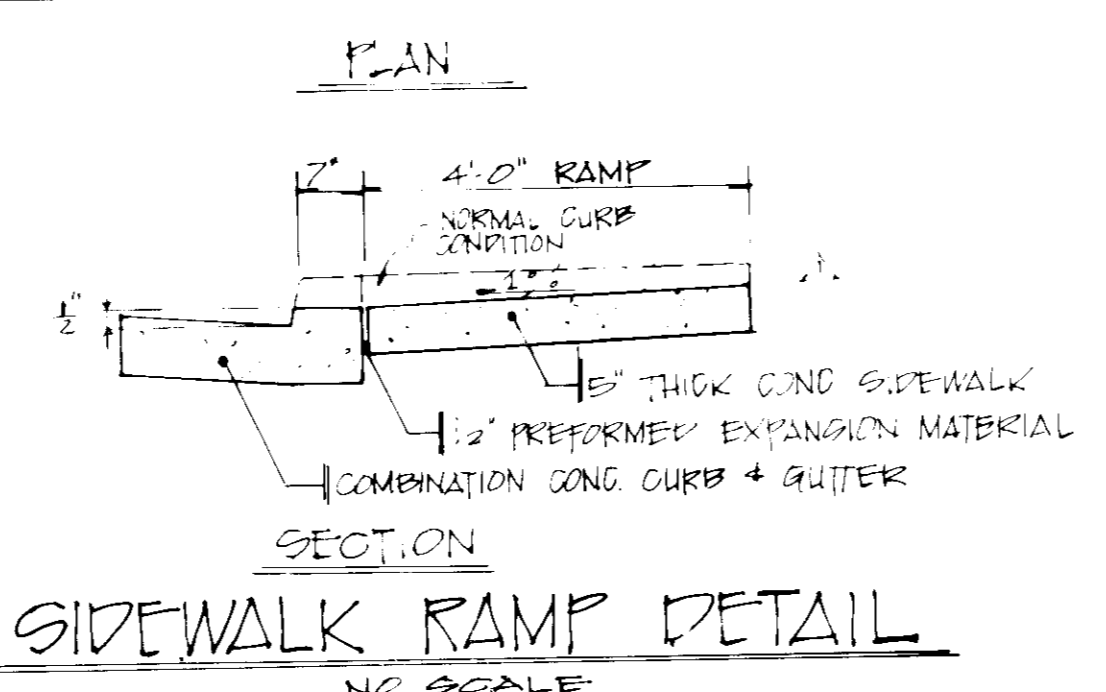
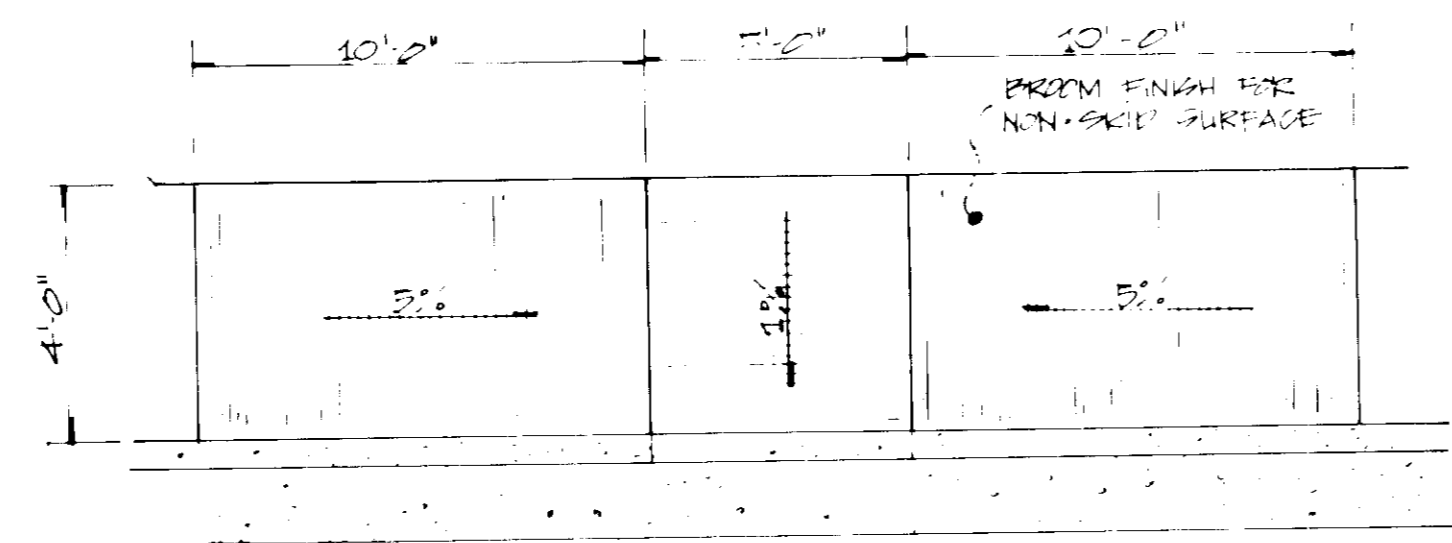
JOYCE ENGINEERING CORPORATION  
Professional Engineers & Land Planning  
Surveying & Construction Management (301) 585-4353  
11033 C.B. TIMORE AVENUE, BELTSVILLE, MD 20705

C-1  
1 of 8

SDP-86-252



HANDICAPPED PARKING SIGN TYPICAL DETAIL



- PAVING NOTES
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND THE REQUIREMENTS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION.
  - DRIVEWAY ENTRANCES TO PATUXENT RANGE ROAD AND PRESTON COURT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL NUMBER R-609, MODIFIED AS SHOWN ON THE PLANS.
  - PERMITEE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADWAY IN THE AREA ALONG THE FRONTAGE OF THIS PROJECT.
  - IT SHALL BE THE RESPONSIBILITY OF THE PERMITEE TO ARRANGE FOR ADJUSTMENTS OF ALL UTILITIES AFFECTED BY THIS PROJECT.
  - CALL "MISS UTILITY" AT 559-0100 FOR EXISTING UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- GENERAL NOTES
- THIS PROPERTY IS ZONED M-2.
  - TOTAL LOT AREA = 195,497 SQUARE FEET OR 4.488 ACRES.
  - ALL SURROUNDING PROPERTY IS ZONED M-2.
  - TOPOGRAPHIC SURVEY INFORMATION WAS OBTAINED FROM ROUGH GRADING PLAN PREPARED BY CENTURY ENGINEERS.
  - TOTAL BUILDING AREA:  
WAREHOUSE (70%)...51,450 SQUARE FEET  
OFFICE (30%)...22,050 SQUARE FEET  
TOTAL BUILDING AREA.....73,500 SQUARE FEET
  - PROPOSED MAXIMUM BUILDING HEIGHT: 24.5 FEET
  - REQUIRED PARKING:  
BUILDING NUMBER 1:  
91,450 SQUARE FEET @ 1 SPACE/ 500 SQ.FT. = 103 SPACES  
45 EMPLOYEES @ 7 SPACES/10EMPLOYEES/SHIFT = 32 SPACES  
TOTAL REQUIRED PARKING 135 SPACES
  - PARKING PROVIDED:  
REGULAR SPACES (10.0' x 18.0').....131 SPACES  
HANDICAPPED SPACES (12.0' x 18.0')..... 5 SPACES  
TOTAL PARKING PROVIDED 136 SPACES
  - LOADING SPACES REQUIRED: 0 SPACES OR AS REQUIRED BY DEVELOPMENT
  - LOADING SPACES PROVIDED: 12 SPACES (12.0' X 45.0')
  - GREEN SPACE REQUIRED:  
20% OF TOTAL LOT AREA = 0.20 x 195,497 SQUARE FEET  
= 39,099 SQUARE FEET
  - GREEN SPACE PROVIDED:  
42,600 SQUARE FEET = 21.79%
  - INTERNAL GREEN SPACE REQUIRED:  
5% OF PARKING COMPOUND AREA = 0.05 x 81,640 SQ.FT.  
= 4,082 SQUARE FEET
  - INTERNAL GREEN SPACE PROVIDED:  
7,010 SQUARE FEET OR 8.46%
  - ALL CONCRETE CURB AND GUTTER TO BE HOWARD COUNTY STANDARD NUMBER R-3.01.
  - LOADING DOORS, BUILDING ENTRANCES AND WINDOW LOCATIONS ARE TO BE CONSTRUCTED AS PER THE ARCHITECTURAL PLANS.
  - THIS PROJECT IS NOT AFFECTED BY A DESIGNATED 100 YEAR FLOOD PLAIN.
  - ALL RADII ARE 5.0 FEET UNLESS OTHERWISE NOTED.
  - ALL PARKING SPACES SHALL BE MARKED WITH 4" WIDE WHITE STRIPES.
  - THIS PLAN TO BE USED FOR SITE GRADING/DEVELOPMENT, ENTRANCE AND PAVING ONLY.
  - PARKING SPACE LEGEND:  
H NUMBER OF SPACES HANDICAPPED  
R NUMBER OF SPACES REGULAR  
L NUMBER OF SPACES LOADING
  - BUILDING F.A.R. = 37.60%

- LANDSCAPING GENERAL NOTES
- ALL PLANT MATERIAL AND INSTALLATION OF PLANT MATERIAL SHALL BE IN STRICT ACCORDANCE WITH AAN STANDARDS AND LCMW/ASLA "LANDSCAPE SPECIFICATION GUIDELINES". PROVIDE 1 YEAR WARRENTY.
  - ALL SHADE AND ORNAMENTAL TREES SHALL BE MATCHED WITHIN GROUPS.
  - ALL EVERGREEN TREES SHALL BE STAKED AS PER TREE STAKING DETAIL.
  - DO NOT PRUNE PLANT MATERIAL UNLESS DIRECTED BY LANDSCAPE ARCHITECT.
  - ALL AREAS DISTURBED BY CONSTRUCTION NOT PAVED OR OTHERWISE PLANTED SHALL BE SEEDED WITH KENTUCKY 31 AT A RATE OF 5 TO 8 POUNDS PER 1,000 SQUARE FEET.
  - ALL SOD SHALL BE KENTUCKY 31, CERTIFIED SOD.
  - PLANT LIST HAS BEEN PROVIDED FOR CONTRACTORS INFORMATION ONLY. QUANTITIES SHALL BE AS SHOWN ON DRAWINGS.
  - LANDSCAPING AS SHOWN ON THIS PLAN IS SUBJECT TO REVISION AS DIRECTED BY THE ARCHITECT OR LANDSCAPE ARCHITECT.

PLANT LIST

KEY	QTY.	PLANT NAME	SIZE & CONDITION
P.C.	18	SHADE TREES PYRUS CALLERYANA - BRADFORD PEAR	12' - 14' B&B 2 1/2" - 3" CAL.
P.S.	14	PINUS STROBUS - WHITE PINE	7' - 8' B&B @ 8' O.C.
F.C.	14	FLOWERING TREES PRUNUS SP. "KWANCAN" FLOWERING CHERRY	8' - 10' B&B
M.S.	5	MALUS SP. - CRABAPPLE	12' - 14' B&B 2 1/2" - 3" CAL.

INDEX TO DRAWINGS

- C-1 SITE DEVELOPMENT, GRADING, ENTRANCE AND PAVING PLAN
- C-2 SITE DEVELOPMENT AND PAVING NOTES, DETAILS AND CERTIFICATIONS
- C-3 ON-SITE WATER, SEWER AND STORM DRAIN PLAN
- C-4 WATER, SEWER AND STORM DRAIN PROFILES, NOTES AND DETAILS
- C-5 SEDIMENT AND EROSION CONTROL PLAN
- C-6 SEDIMENT & EROSION CONTROL DETAILS, CERTIFICATIONS AND NOTES
- C-7 STORM WATER MANAGEMENT PLAN AND DETAILS
- C-8 DRAINAGE AREA MAP

APPROVED  
HOWARD COUNTY DEPT. OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
DATE 10-10-86  
M. J. J. J.

SDP-86-252  
OWNER:  
THE SHAPIRO COMPANIES  
6011 KENILWORTH AVENUE  
SUITE 210  
RIVERDALE, MARYLAND 20787  
201-277-7200

SITE DEVELOPMENT, GRADING, ENTRANCE, & PAVING NOTES, DETAILS AND SECTIONS  
TAX MAP 42  
PLAT # 6523  
BLOCK "E" PARCEL "N"  
BALTIMORE-WASHINGTON INDUSTRIAL PARK  
GUILFORD ELECTION DISTRICT NO. 6  
HOWARD COUNTY, MARYLAND

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE + STORM DRAIN SYSTEMS + ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS WILLIAM F. BROWNLEY DIRECTOR 3-18-87	APPROVED: FOR PUBLIC WATER + PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT. J. J. J. J. COUNTY HEALTH OFFICER 3-22-87	APPROVED: HOWARD COUNTY OFFICE OF PLANNING + ZONING M. J. J. J. PLANNING DIRECTOR 3-23-87	APPROVED: HOWARD COUNTY OFFICE OF PLANNING + ZONING ADMIN. J. J. J. J. DATE 3-23-87	REVISIONS 10-22-86 3-22-87 4-20-88	JOYCE ENGINEERING CORPORATION Professionals, Engineers + Land Planning Surveying + Construction Management (001) 585-4352 11033-C BALTIMORE AVENUE, BELTSVILLE, MD 20705
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DES: WA J J J J T A M ISHEET 30-045  
SCALE: AS SHOWN JOB NO. 86-045  
DATE: MARCH 25 1987

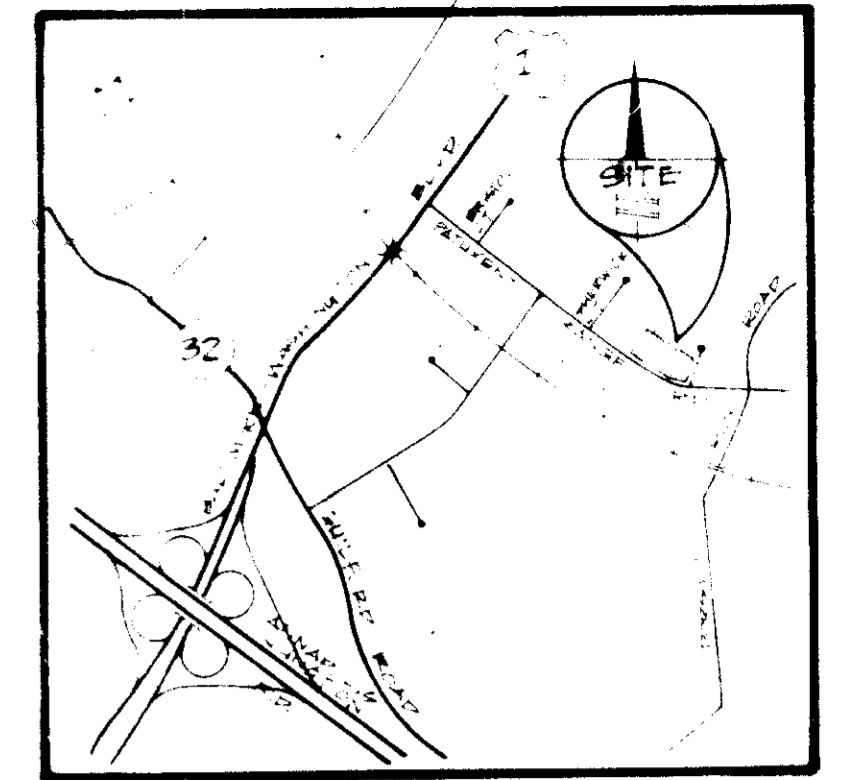
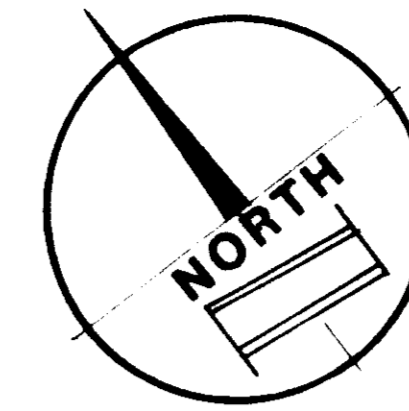
SDP-86-252

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.

*Charles J. Shapiro* 12-11-86  
 CHARLES J. SHAPIRO DATE

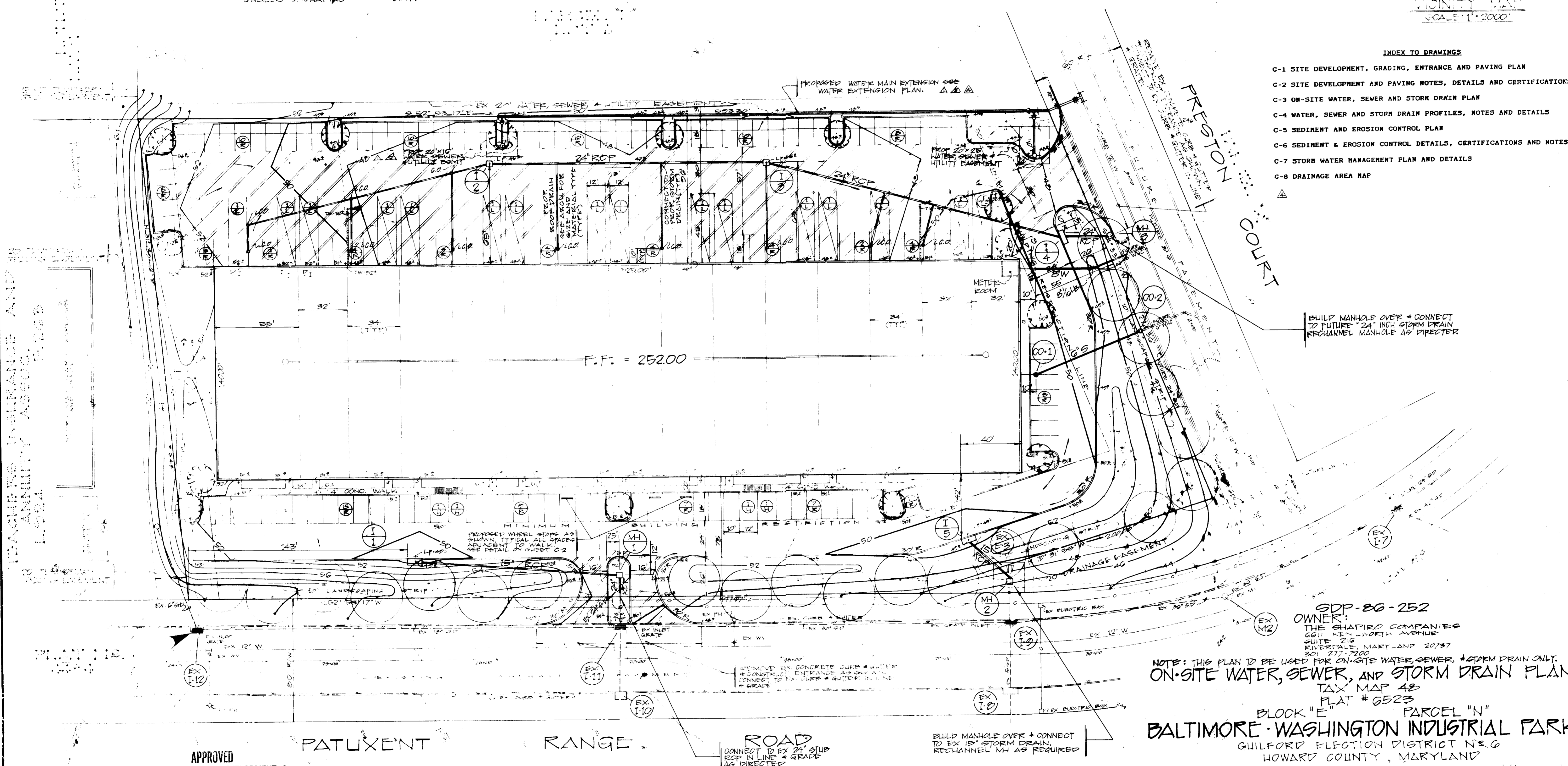
**LEGEND**

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING PAVEMENT
	BITUMINOUS CONCRETE (LIGHT DUTY)
	BITUMINOUS CONCRETE (HEAVY DUTY)
	CONCRETE PAVEMENT
	EXISTING CONCRETE CURB AND GUTTER
	PROPOSED CONCRETE CURB AND GUTTER
	FUTURE CONCRETE CURB AND GUTTER
	RETAINING WALL
	PROPOSED WATER MAIN
	PROPOSED SEWER MAIN
	PROPOSED STORM DRAIN



**INDEX TO DRAWINGS**

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- C-2 SITE DEVELOPMENT AND PAVING NOTES, DETAILS AND CERTIFICATIONS
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- C-6 SEDIMENT & EROSION CONTROL DETAILS, CERTIFICATIONS AND NOTES
- C-7 STORM WATER MANAGEMENT PLAN AND DETAILS
- C-8 DRAINAGE AREA MAP



BUILD MANHOLE OVER + CONNECT TO FUTURE 24" INCH STORM DRAIN RECHANNEL MANHOLE AS DIRECTED

SDP-86-252  
 OWNER:  
 THE SHAPIRO COMPANIES  
 6611 KENILWORTH AVENUE  
 SUITE 210  
 RIVERDALE, MARYLAND 20737  
 301 277-7200

NOTE: THIS PLAN IS TO BE USED FOR ON-SITE WATER, SEWER, AND STORM DRAIN ONLY.  
**ON-SITE WATER, SEWER, AND STORM DRAIN PLAN**  
 TAX MAP 48  
 FLAT # 6523

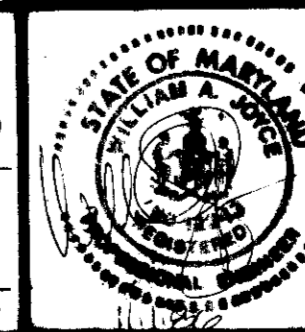
BLOCK "E" PARCEL "N"  
**BALTIMORE WASHINGTON INDUSTRIAL PARK**  
 GUILFORD ELECTION DISTRICT N&G  
 HOWARD COUNTY, MARYLAND

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-10-86

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 DATE 3-19-87  
 DATE 3-18-87

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPT.  
 DATE 3-22-87

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 ACTING DIRECTOR  
 DATE 3-23-87



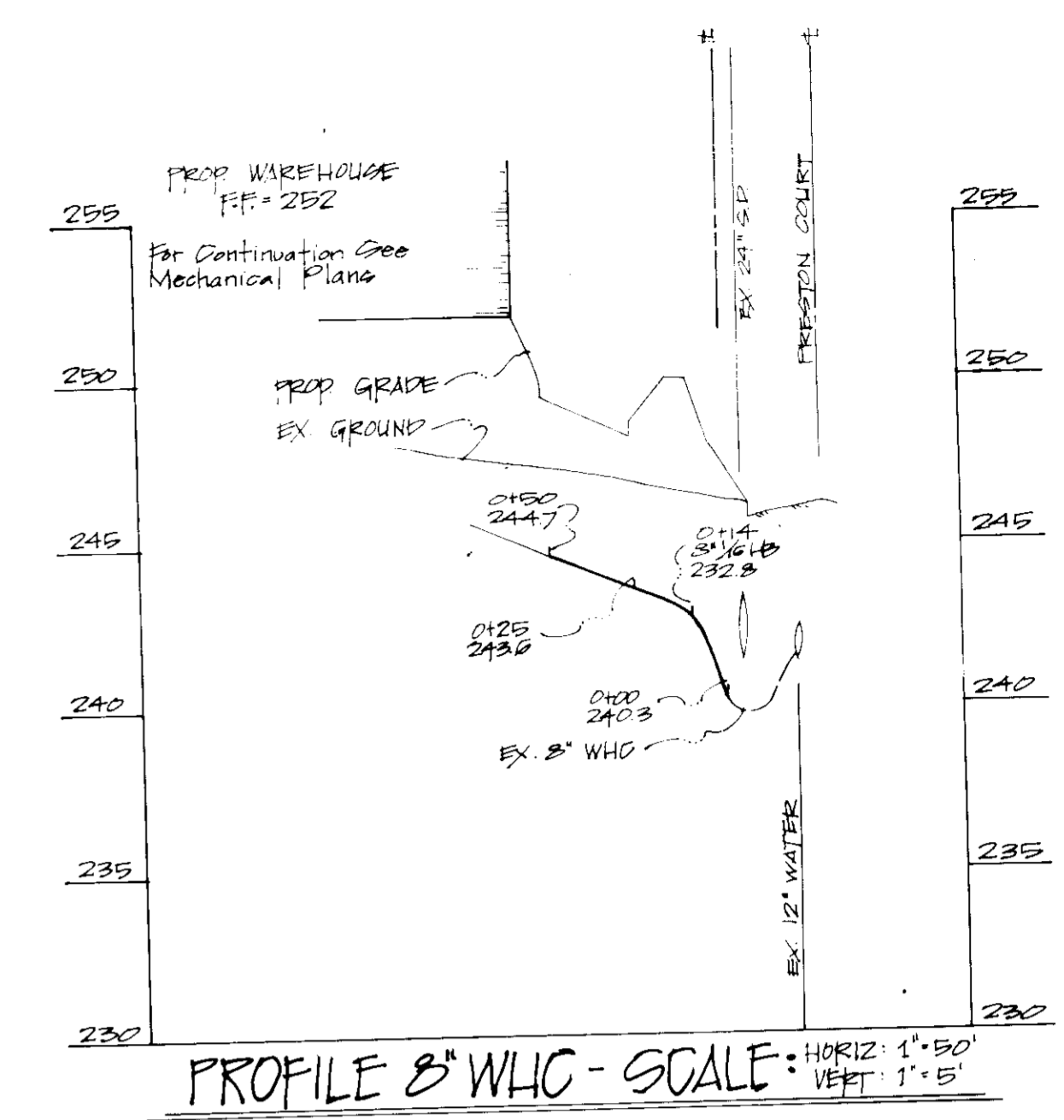
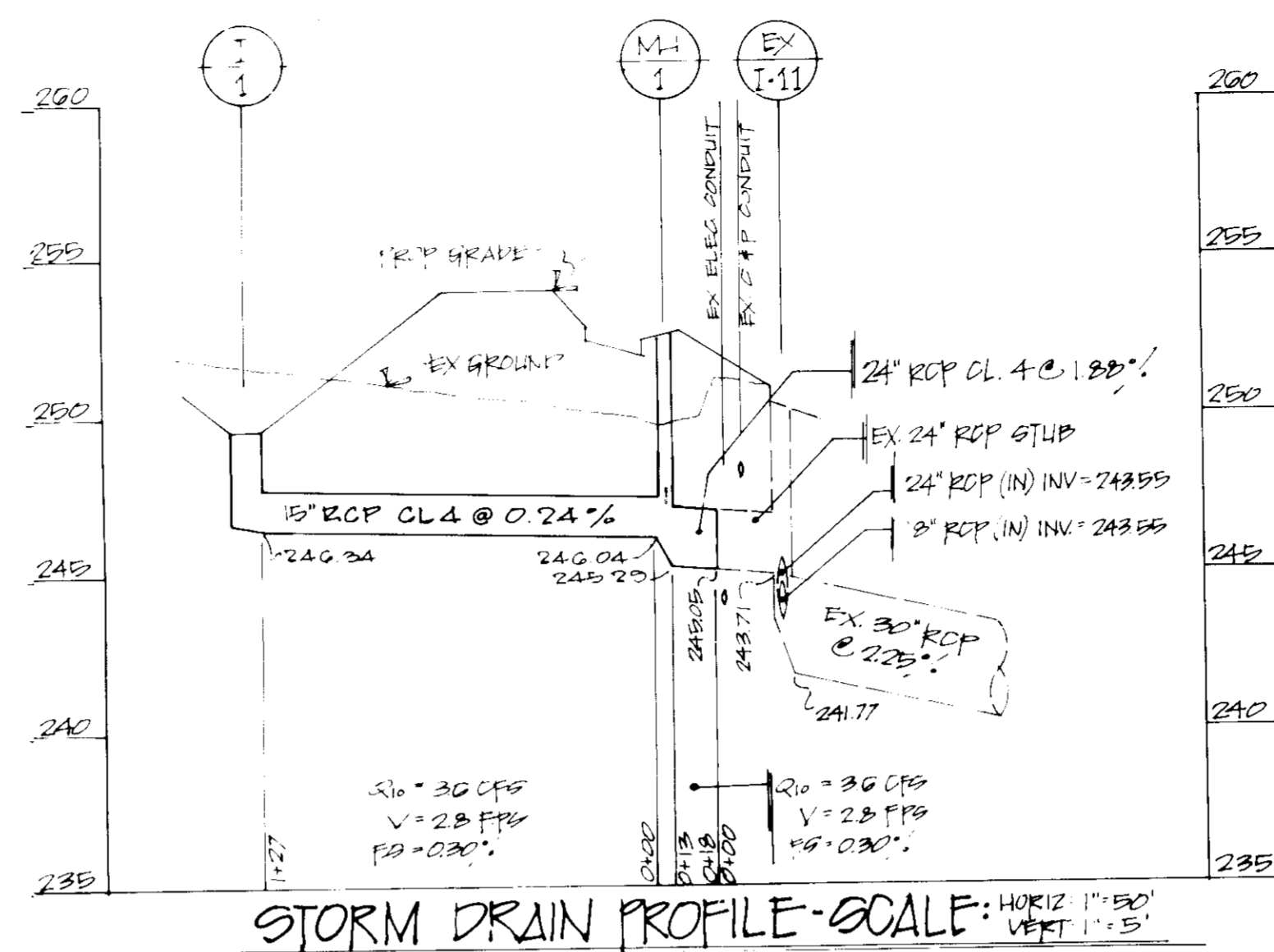
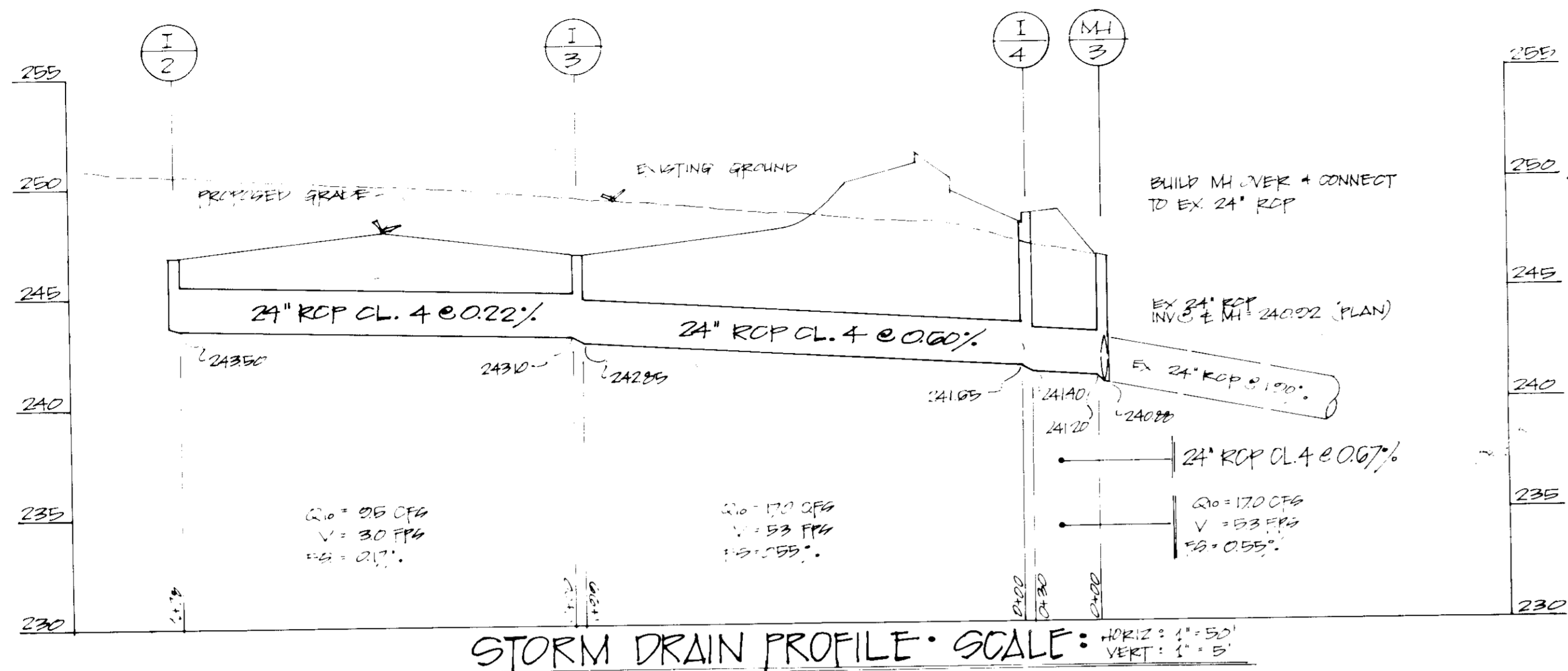
**REVISIONS**

6-20-86	ADD	WAL
12-10-86	ADD	WAL
2-22-87	ADD	WAL

JOYCE ENGINEERING CORPORATION  
 11501 WOODBURN ROAD  
 SUITE 100  
 GREENBELT, MARYLAND 20818  
 (301) 441-1100

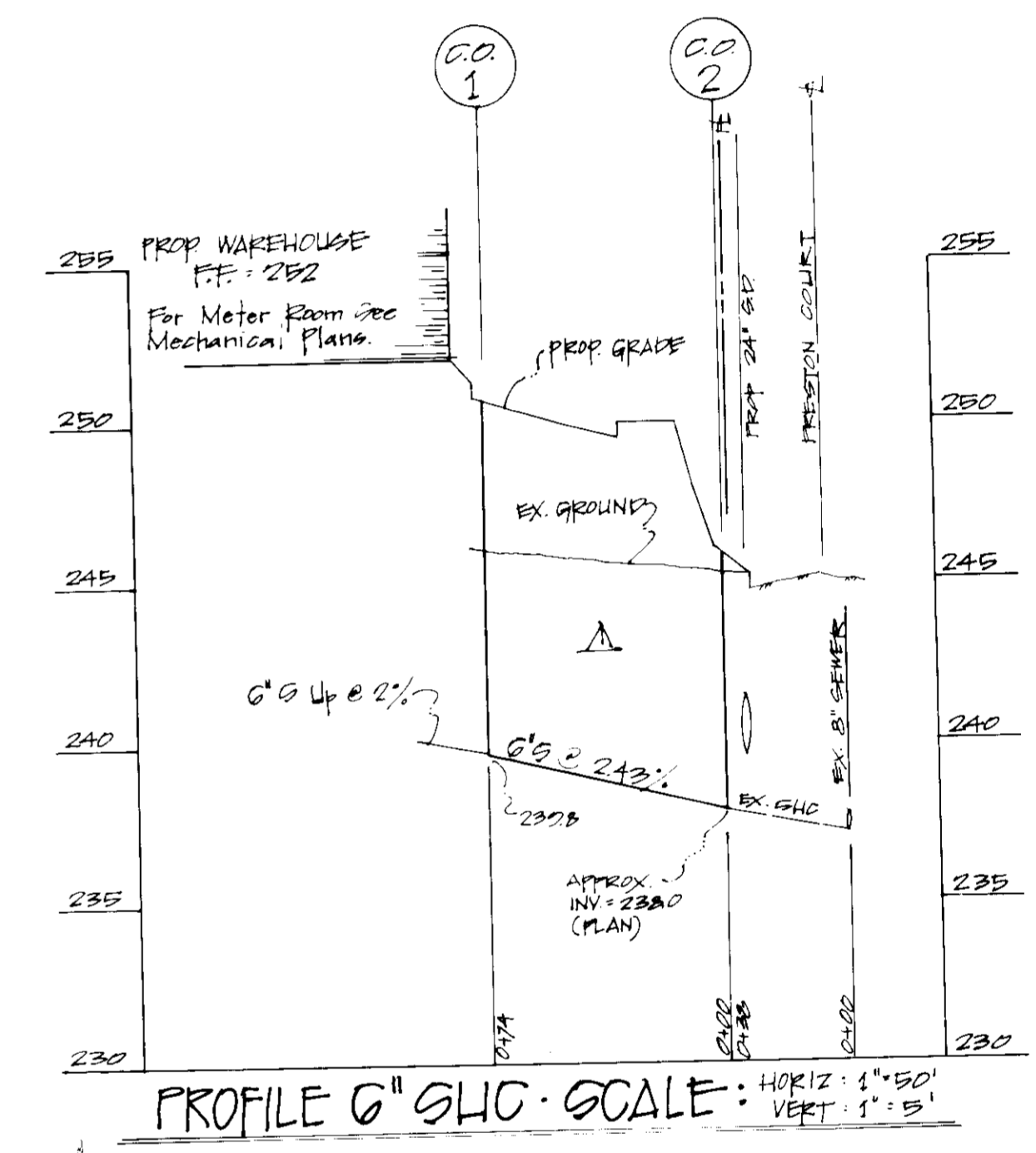
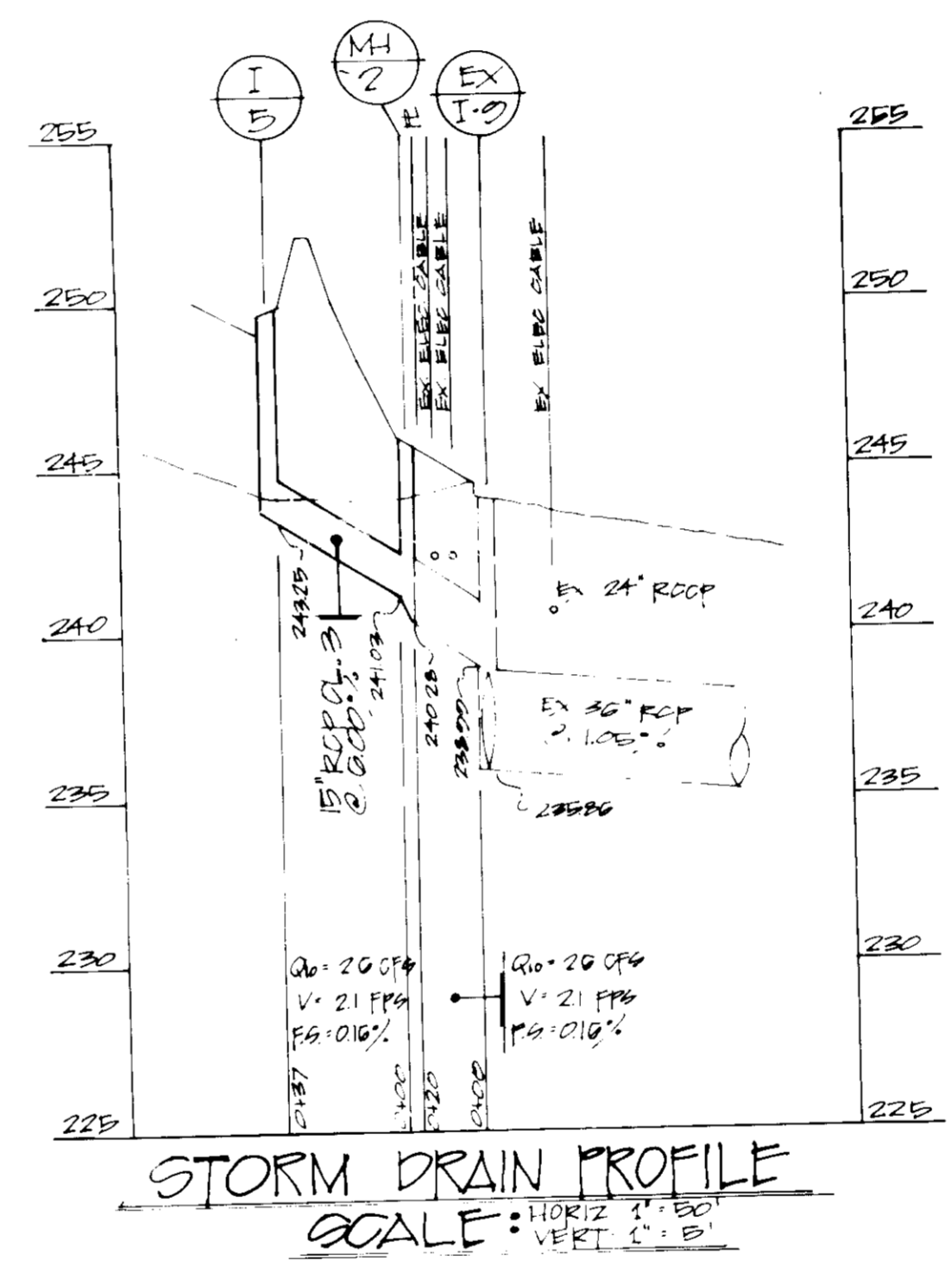
C-3  
 3 of 3

SDP-86-252



**GENERAL STORM DRAIN NOTES**

1. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE GENERAL SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY "STORM DRAINAGE DESIGN MANUAL" + "STANDARD SPECIFICATIONS + DETAILS FOR CONSTRUCTION" UNLESS OTHERWISE NOTED.
2. TYPES OF STRUCTURES REFER TO THE STANDARD STORM DRAINAGE DETAILS OF HOWARD COUNTY.
3. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION + ELEVATIONS OF ALL THE MAINS BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER OR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL EXCAVATED MATERIAL NOT USED FOR CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT HIS EXPENSE. THIS ITEM WILL NOT BE MEASURED OR BIDD, BUT CONSIDERED INCIDENTAL TO THE CONSTRUCTION.
5. GRADE ALL DISTURBED AREAS TO PROVIDE POSITIVE DRAIN.



**STORM DRAIN COMPUTATIONS**

FROM		TO		PIPE 2013 *		INLET	
NO.	TYPE	NO.	TYPE	NO.	TYPE	NO.	TYPE
I-2	I-3	1.8	1.8	0.8	1.44	10	6.0
I-3	I-4	1.4	3.20	0.29	2.70	11.10	6.3
I-4	FC	2.20	3.40	0.69	2.83	11.25	6.0
I-1	MH-1	-	0.70	0.6	-	0.82	5
MH-1	I-1	-	0.7	0.6	-	0.42	5
I-5	MH-2	-	0.40	0.75	-	0.30	5

\* NOTE: ALL Q'S ARE BASED ON NO STORM WATER MANAGEMENT. ACTUAL Q'S WILL BE LESS.

**STRUCTURE SCHEDULE**

NO.	TYPE	# STATION	OFFSET	TOP ELEVATION	REMARKS
I-1	A-10	AS PER PLAN		242.00	HO STD PTL # SD 4.02
MH-1	MH			252.25	SHA STD PTL # MD 28800
MH-2	MH			245.00	
I-2	S			246.00	HO STD PTL # SD 4.22
I-3	S			246.80	HO STD PTL # SD 4.22
I-4	A-10			248.45	HO STD PTL # SD 4.02
I-5	A-10			242.00	
MH-3	MH			246.00	SHA STD PTL # MD 28800

**PIPE SCHEDULE**

SIZE	TYPE	LENGTH
15"	RCP CL 3	164'
24"	RCP CL 4	420'

SDP-86-252

OWNER:  
 THE SHAPIRO COMPANIES  
 6811 KENILWORTH AVENUE  
 SUITE 210  
 RIVERDALE, MARYLAND 20737  
 301-277-7200  
 NOTE: THIS PLAN TO BE USED FOR ON-SITE WATER, SEWER, + STORM DRAIN ONLY.  
 ON-SITE WATER, SEWER, + STORM DRAIN PROFILES, NOTES + DETAILS  
 TAX MAP 4B  
 FLAT # 6523  
 BLOCK "E" PARCEL "N"  
 BALTIMORE-WASHINGTON INDUSTRIAL PARK  
 GUILFORD ELECTION DISTRICT NO. 6  
 HOWARD COUNTY, MARYLAND

APPROVED  
 DIVISION OF LAND DEVELOPMENT + ZONING ADMINISTRATION  
 HOWARD COUNTY  
 DATE 10-10-86  
 M.A.H.M.

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE + STORM DRAIN SYSTEMS + ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 DATE 3-13-87  
 CHIEF BUREAU OF ENGINEERING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPT.  
 DATE 3-22-87  
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING + ZONING  
 Planning Director  
 DATE 3-23-87  
 CHIEF DIVISION OF LAND DEVELOPMENT + ZONING ADMIN.

**REVISIONS**

NO.	DATE	DESCRIPTION	BY	CHK
1	3-23-87	REVISED TO REFLECT REVISIONS TO THE MECHANICAL PLANS	W.A.J.	W.A.J.

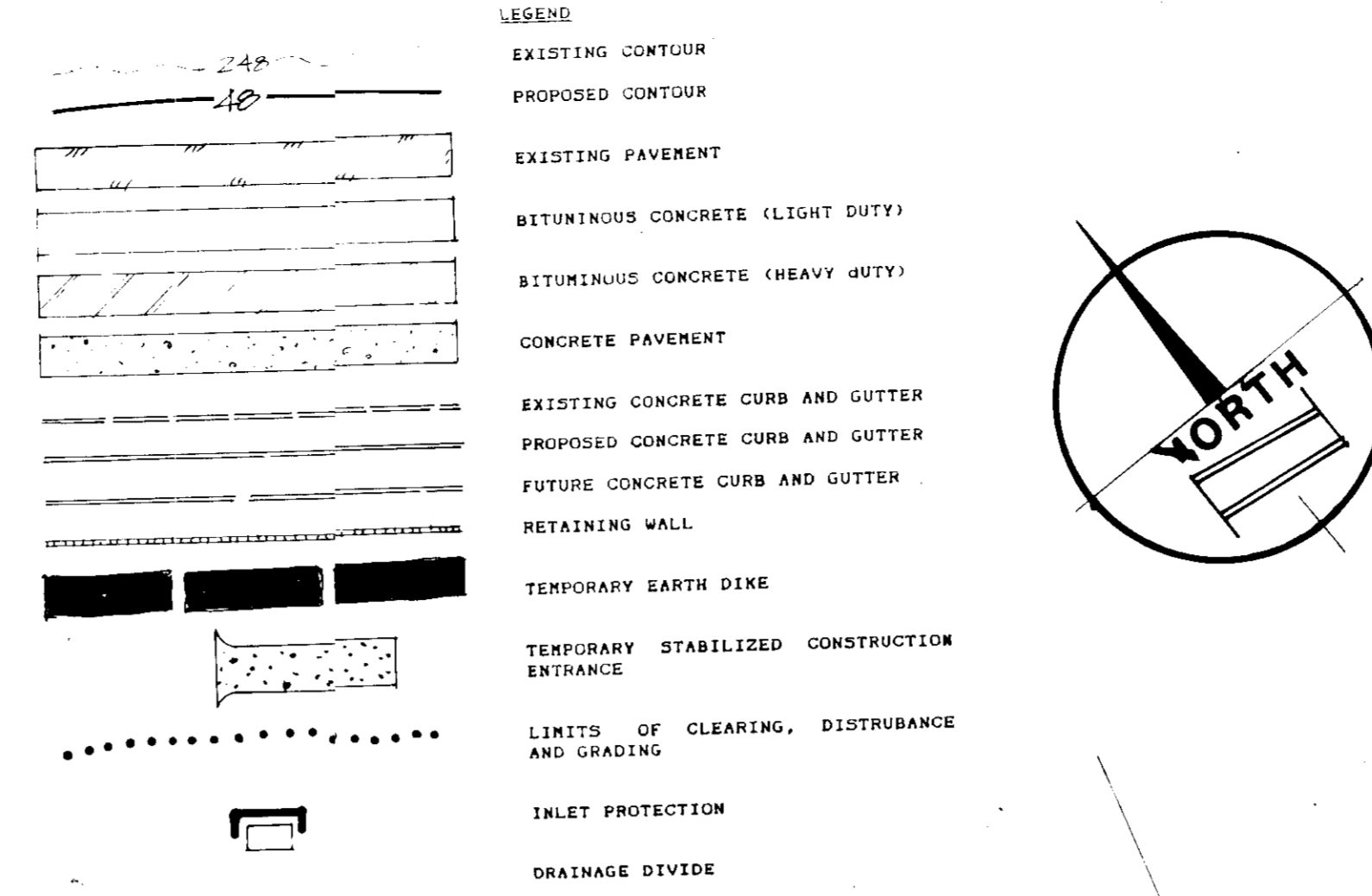
JOYCE ENGINEERING CORPORATION  
 Professional Engineers + Land Planning  
 Surveying + Construction Management (301) 585-4353  
 11033-C BALTIMORE AVENUE, BELTSVILLE, MD 20705

C-4  
 4 of 8

SDP-86-252

- SEDIMENT CONTROL NOTES** HC 2/86
- A Minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437).
  - All vegetative and structural practices are to be installed according to the provisions of this plan and are to conform with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - Following initial soil disturbance or disturbance, permanent or temporary stabilization shall be completed within:
    - 7 calendar days for all permittee sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1.
    - 14 days for 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 specifications above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), and (Sec. 54), 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.....	195,497 SQ. FT.
AREA DISTURBED.....	194,000 SQ. FT.
AREA TO BE ROOFED OR PAVED.....	143,293 SQ. FT.
AREA TO BE VEGETATIVELY STABILIZED.....	31,714 SQ. FT.
TOTAL CUT.....	7,402 C.Y.
TOTAL FILL.....	19,402 C.Y.
BORROW AREA LOCATION.....	TO BE DETERMINED OFFSITE.
  - 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 controls must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.



**OWNER/DEVELOPER CERTIFICATE:**

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS 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.

DATE: 12-10-86

SIGNATURE: *[Signature]*

DEVELOPER NAME: THE SHAPIRO COMPANIES

TITLE: MANAGING AGENT

ADDRESS: 601 KENILWORTH AVE. RIVERDALE, MD. 20722

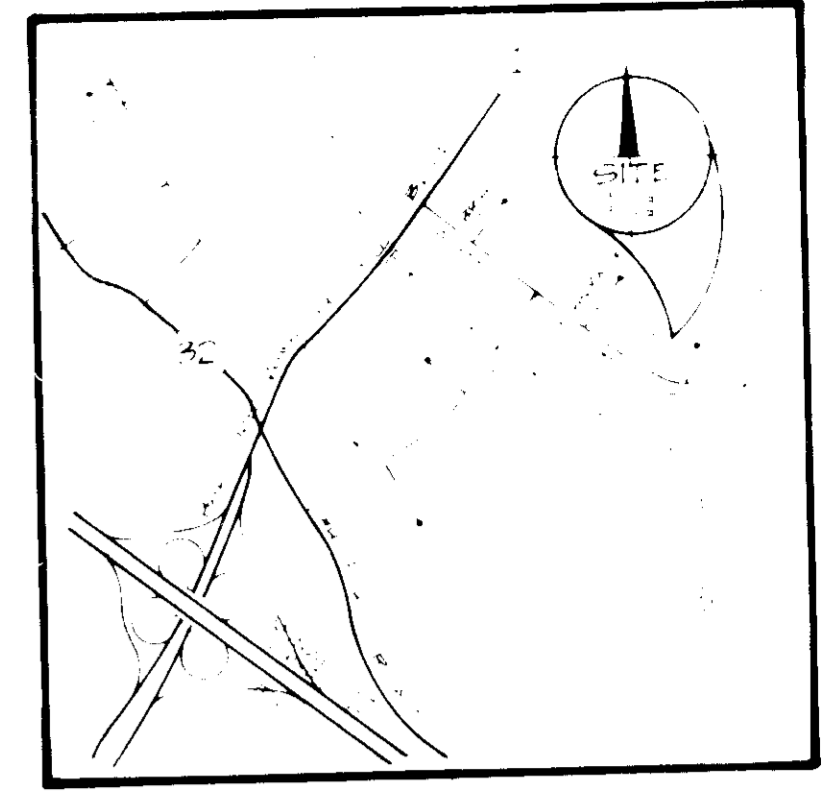
PHONE #: 202-777-7292

**ENGINEER CERTIFICATION:**

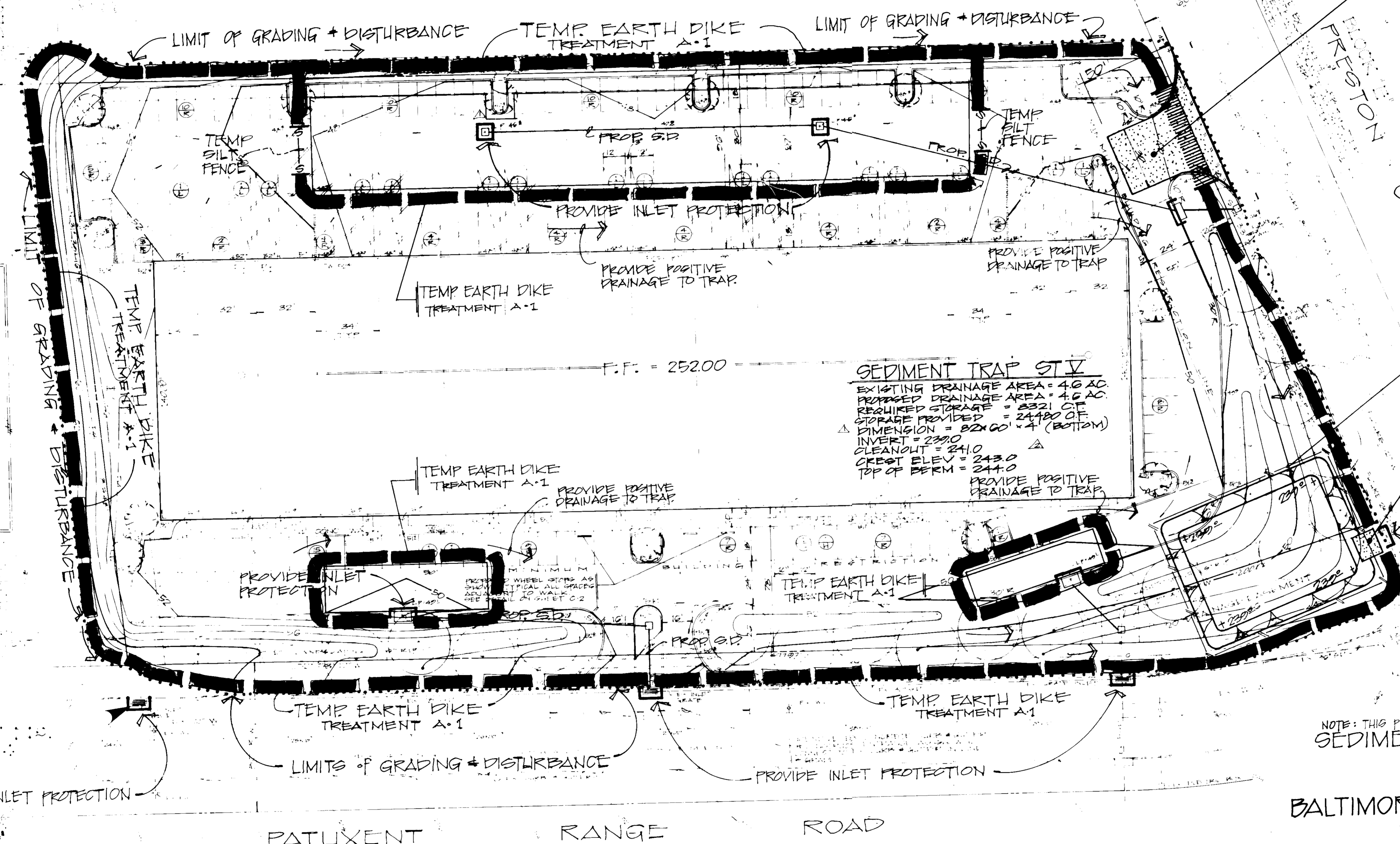
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A WORKABLE AND PRACTICAL PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIGNATURE: *[Signature]* DATE: 1-23-87

WILLIAM A. JONES, P.E.  
RD. REGISTRATION #12293



BLOCK "E" PARCEL "O"



- TEMP. STABILIZED CONSTRUCTION ENTRANCE, WITH MOUNTABLE DIKE**
- INDEX TO DRAWINGS**
- C-1 SITE DEVELOPMENT, GRADING, ENTRANCE AND PAVING PLAN
  - C-2 SITE DEVELOPMENT AND PAVING NOTES, DETAILS AND CERTIFICATIONS
  - C-3 ON-SITE WATER, SEWER AND STORM DRAIN PLAN
  - C-4 WATER, SEWER AND STORM DRAIN PROFILES, NOTES AND DETAILS
  - C-5 SEDIMENT AND EROSION CONTROL PLAN
  - C-6 SEDIMENT & EROSION CONTROL DETAILS, CERTIFICATIONS AND NOTES
  - C-7 STORM WATER MANAGEMENT PLAN AND DETAILS
  - C-8 DRAINAGE AREA MAP

**SEQUENCE OF CONSTRUCTION**

DATE	FUNCTION	TIME
SEP 86	OBTAIN GRADING PERMIT	3 WKS
OCT 86	INSTALL SEDIMENT + EROSION CONTROL	2 WKS
NOV 86	ROUGH GRADE ENTIRE SITE	3 WKS
DEC 86	START CONSTRUCTION OF BUILDING	28 WKS
DEC 86	INSTALL UTILITIES	5 WKS
FEB 87	PROVIDE TEMP. EARTH PROTECTION FOR GRAVEL INFILTRATION AREA + INSTALL GRAVEL AREAS AS PER STORM DRAIN PLAN	1 WK
JAN 87	FINE GRADE PARKING LOT + INSTALL CONC. CURB, GUTTER, + SIDEWALK	3 WKS
MAR 87	FINISH GRADE ENTIRE PARKING LOT	2 WKS
APR 87	FINE GRADE BALANCE OF SITE	2 WKS
APR 87	STABILIZE ENTIRE SITE	1 WK
	REMOVE SEDIMENT + EROSION CONTROL MAINTENANCE - CONTINUAL	

PROVIDE TEMP. 42" HIGH SNOW FENCE

STONE OUTLET STRUCTURE L=20'

PROVIDE INLET PROTECTION

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING  
HOWARD COUNTY  
DATE: 10-10-86  
*[Signature]*

SDP-86-252  
OWNER: THE SHAPIRO COMPANIES  
601 KENILWORTH AVENUE  
SUITE 210  
RIVERDALE, MARYLAND 20722  
202-777-7200

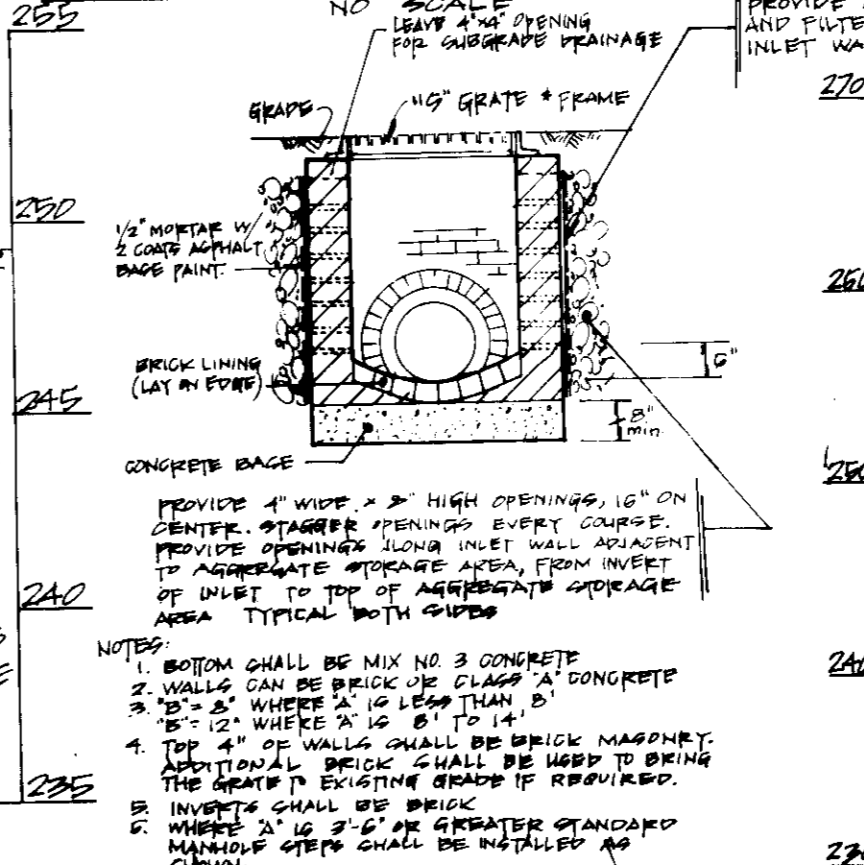
NOTE: THIS PLAN IS TO BE USED FOR SEDIMENT + EROSION CONTROL ONLY.  
**SEDIMENT AND EROSION CONTROL PLAN**  
TAX MAP 48  
FLAT #6523

BLOCK "E" PARCEL "O"  
**BALTIMORE-WASHINGTON INDUSTRIAL PARK**  
GUILFORD PILECTION DISTRICT NO. 6  
HOWARD COUNTY, MARYLAND

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION + SEDIMENT CONTROL BY THE HOWARD CO. SOIL CONSERVATION DISTRICT. <i>[Signature]</i> DATE: 3/13/87	REVIEW FOR: HOWARD COUNTY NAME: <i>[Signature]</i> DATE: 3-13-87	APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS <i>[Signature]</i> DATE: 3-13-87	APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT. <i>[Signature]</i> DATE: 3-22-87	APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING <i>[Signature]</i> DATE: 3-23-87	REVISIONS	DATE: 11-18-86	C-5 5 of 8 SDP-86-252
	APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT. <i>[Signature]</i> DATE: 3-22-87	APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING <i>[Signature]</i> DATE: 3-23-87	REVISIONS	DATE: 11-18-86			



**INLET DETAIL I-2 & I-3**

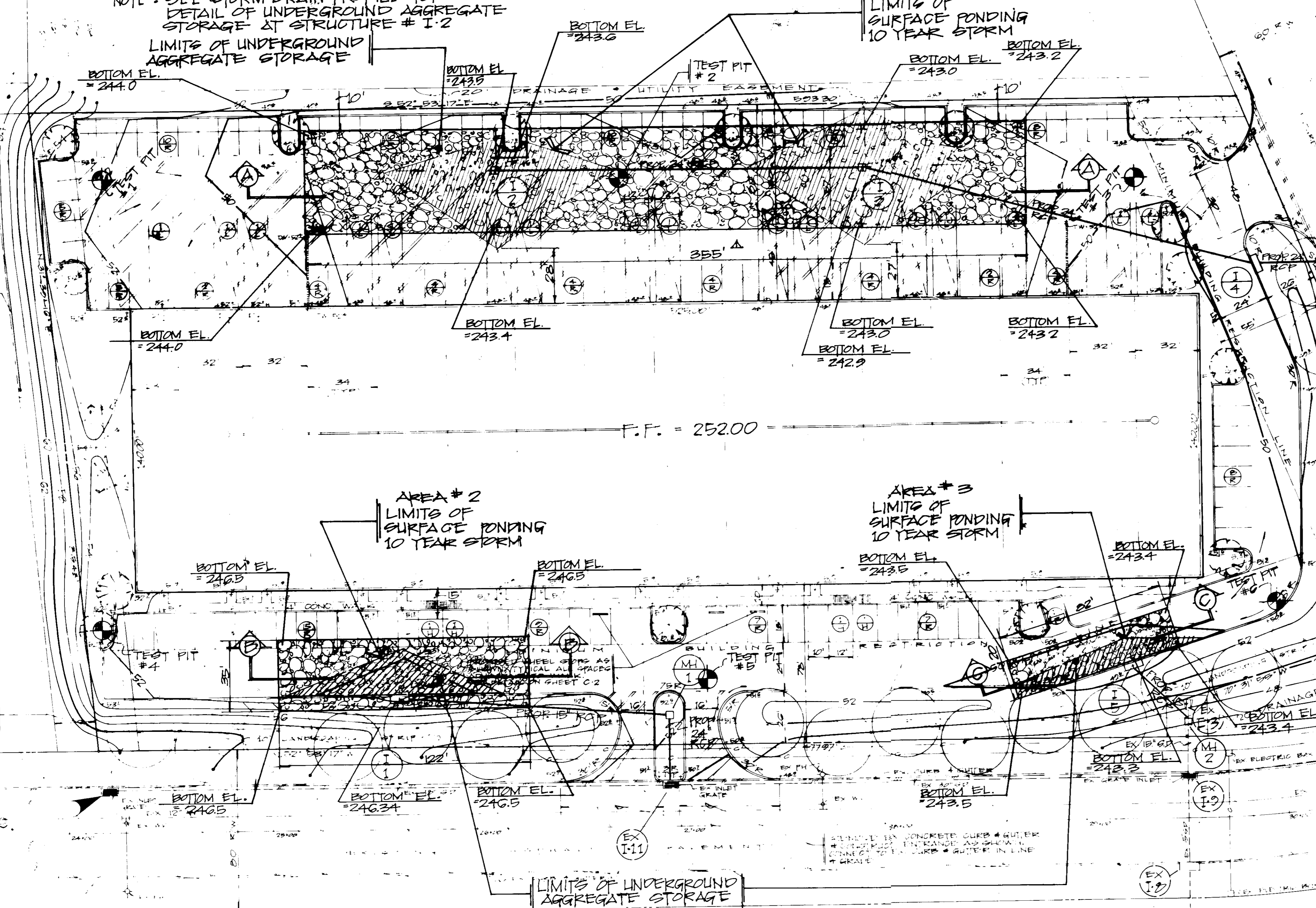


**SECTION "A-A" - SCALE: HORIZ. 1" = 50' VERT. 1" = 5'**

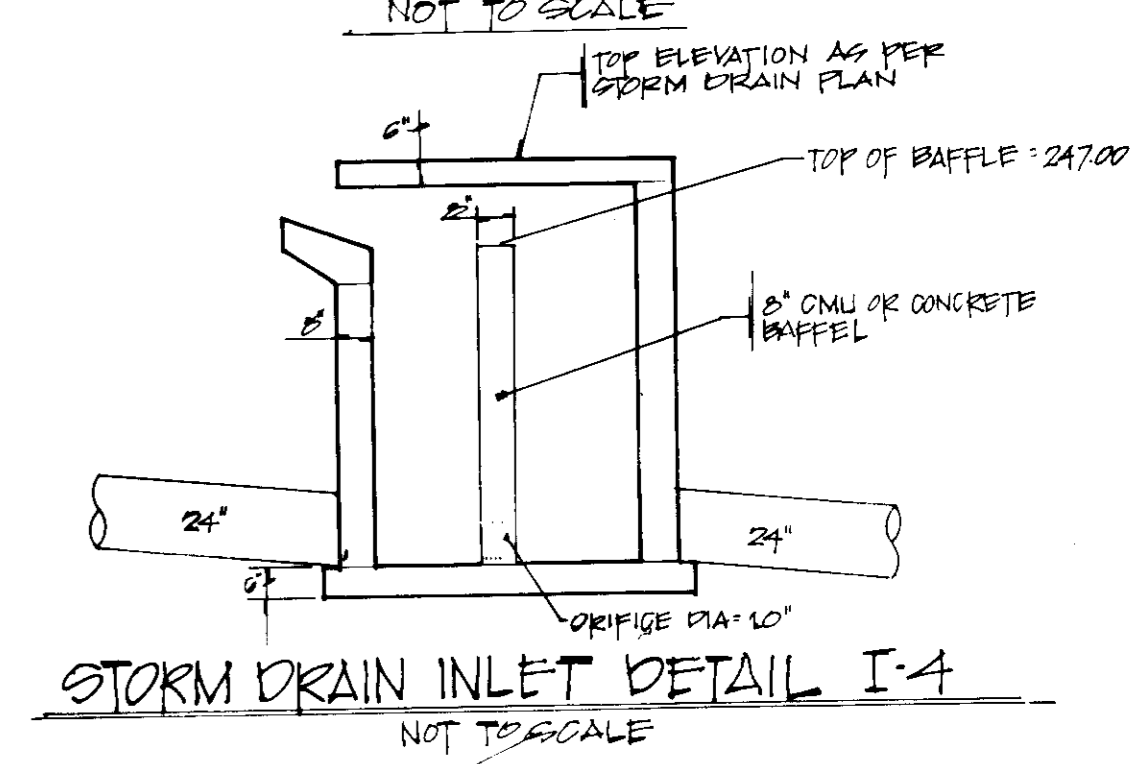
NOTE: SEE STORM DRAIN PROFILE FOR DETAIL OF UNDERGROUND AGGREGATE STORAGE AT STRUCTURE # I-2  
LIMITS OF UNDERGROUND AGGREGATE STORAGE

**SECTION "B-B"**

**SECTION "C-C"**



**STORM DRAIN INLET DETAIL I-1 & I-5**



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 10-10-86  
*[Signature]*

SDP-86-252  
OWNER:  
THE SHAPIRO COMPANIES  
6011 KENILWORTH AVENUE  
SUITE 210  
RIVERDALE, MARYLAND 20737  
301-277-7200

**STORM WATER MANAGEMENT PLAN AND DETAILS**  
TAX MAP 48  
PLAT # 6523  
BLOCK "E" PARCEL "N"  
**BALTIMORE-WASHINGTON INDUSTRIAL PARK**  
GUILFORD ELECTION DISTRICT NO 6  
HOWARD COUNTY, MARYLAND

- INDEX TO DRAWINGS
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  - C-7 STORM WATER MANAGEMENT PLAN AND DETAILS
  - C-8 DRAINAGE AREA MAP

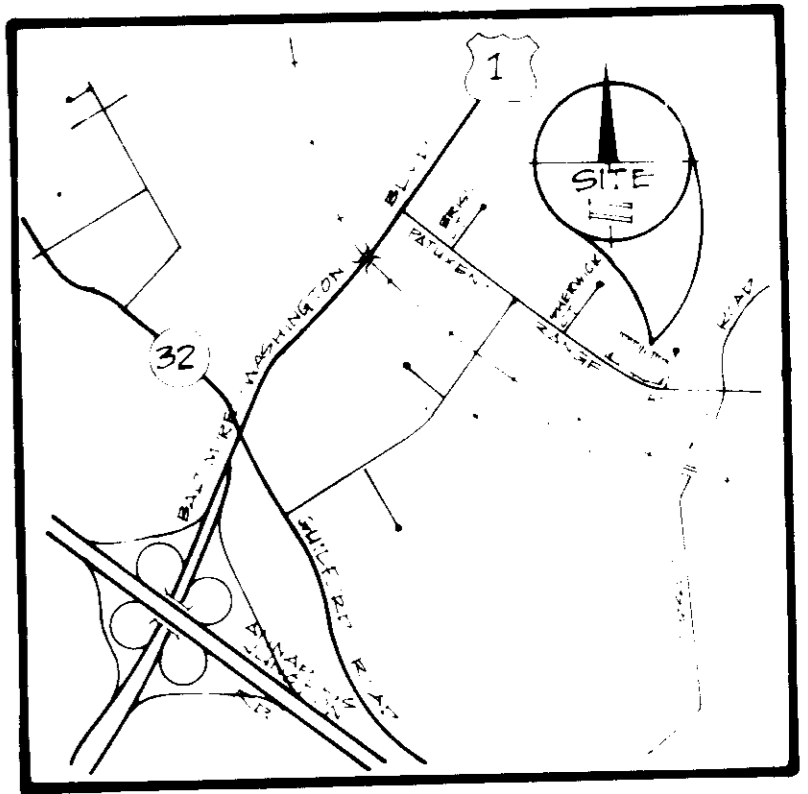
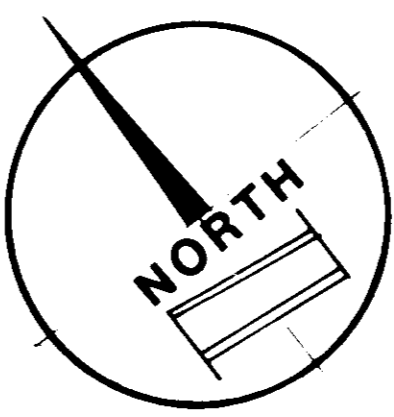
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS <i>[Signature]</i> DIRECTOR DATE 3-18-87	APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT. <i>[Signature]</i> COUNTY HEALTH OFFICER DATE 3-22-87	APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING Acting Director <i>[Signature]</i> DATE 3-23-87
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DATE	REVISIONS	BY
5/19/82	REVISED STORM VOLUME	WAL
8/1/82	REVISED AS PER	WAL
2/20/87	REVISED AS PER	WAL

C-7  
7 of 8

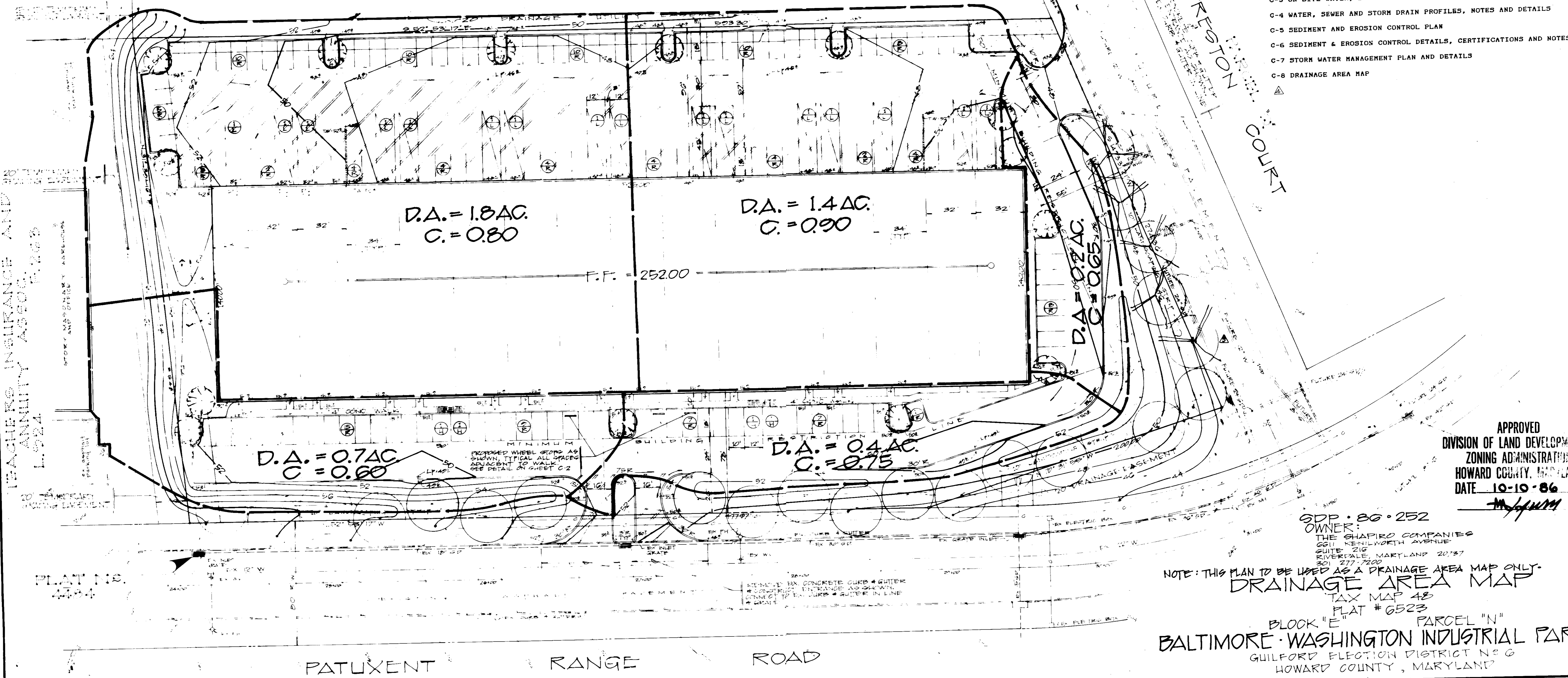
SDP-86-252



NOTE: ALL ROOF DRAINAGE SHALL BE DIRECTED TO REAR OF BUILDING.

INDEX TO DRAWINGS

- C-1 SITE DEVELOPMENT, GRADING, ENTRANCE AND PAVING PLAN
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APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 10-10-86  
*[Signature]*

SDP-86-252  
 OWNER:  
 THE SHAPIRO COMPANIES  
 6511 KENILWORTH AVENUE  
 SUITE 210  
 RIVERFALE, MARYLAND 20787  
 301 577-7500

NOTE: THIS PLAN TO BE USED AS A DRAINAGE AREA MAP ONLY.  
**DRAINAGE AREA MAP**  
 TAX MAP 48  
 PLAT # 6523

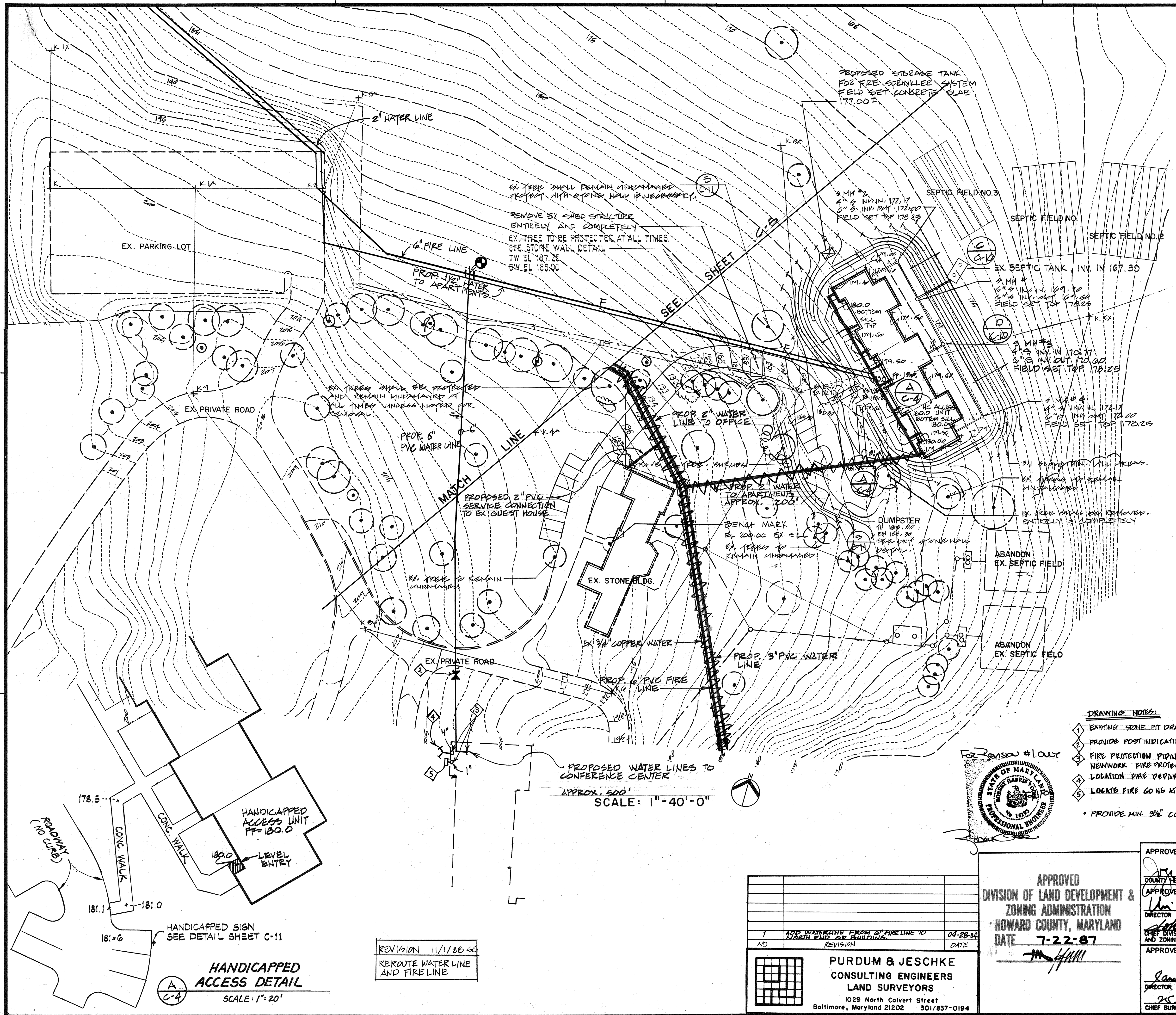
BLOCK "E" FARCEL "N"  
**BALTIMORE-WASHINGTON INDUSTRIAL PARK**  
 GUILFORD ELECTION DISTRICT NO 6  
 HOWARD COUNTY, MARYLAND

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS <i>[Signature]</i> DIRECTOR DATE 3-19-87	APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT. <i>[Signature]</i> COUNTY HEALTH OFFICER DATE 3-22-87	APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING <i>[Signature]</i> PLANNING DIRECTOR DATE 3-23-87	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> <th>REASON</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-29-86</td> <td>HOWARD COUNTY</td> <td>REVIEW</td> </tr> </tbody> </table> JOYCE ENGINEERING CORPORATION DES. W.A. DET. P. LISH... SCALE: 1" = 30' DATE: MARCH 25, 1986 JOB NO. 83245 FILE NO. 83245	REVISIONS	DATE	BY	REASON	1	4-29-86	HOWARD COUNTY	REVIEW
REVISIONS	DATE	BY	REASON								
1	4-29-86	HOWARD COUNTY	REVIEW								

C-8  
 B of B

SDP-86-252





PROPOSED STORAGE TANK FOR FIRE SPINKLER SYSTEM FIELD SET CONCRETE SLAB 177.00 E.

EX. TREE SHALL REMAIN UNHARMED EXCEPT WITH EXPOSED BARK PROTECTION.

REMOVE EX. SHED STRUCTURE ENTIRELY AND COMPLETELY. EX. TREE TO BE PROTECTED AT ALL TIMES. SEE STONE WALL DETAIL TW EL. 187.25. BW EL. 185.00

EX. TREE SHALL BE PROTECTED AND REMAIN UNHARMED AT ALL TIMES UNLESS NOTES OR OTHERWISE INDICATED.

EX. TREE TO REMAIN UNHARMED.

PROPOSED 2" PVC SERVICE CONNECTION TO EX. GUEST HOUSE

PROPOSED 2" WATER LINE TO OFFICE

PROPOSED 2" WATER TO APARTMENTS APPROX. 200'

BENCH MARK EL. 204.00 EX. S.I.L.

EX. TREE TO REMAIN UNHARMED

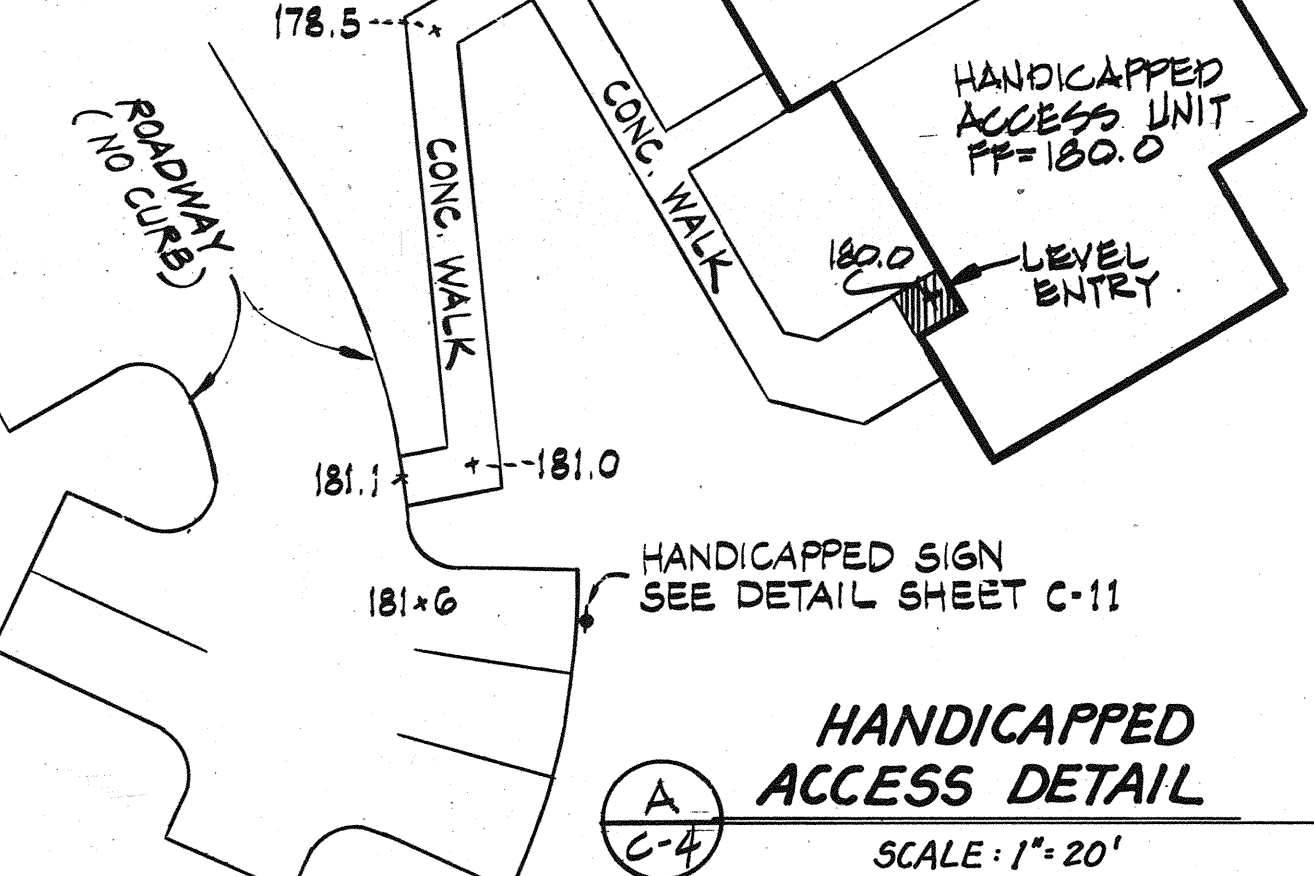
EX. 3/4" COPPER WATER

PROPOSED 3" PVC WATER LINE

PROPOSED 1 1/2" PVC FIRE LINE

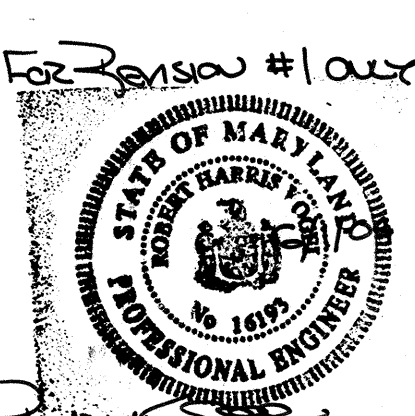
PROPOSED WATER LINES TO CONFERENCE CENTER APPROX. 500'

SCALE: 1" = 40'-0"



REVISION 11/1/88 GC  
REROUTE WATER LINE AND FIRE LINE

- DRAWING NOTES:**
- EXISTING STONE PIT DRAIN FROM SACRAMENTUM.
  - PROVIDE POST INDICATING VALVE ASSEMBLY AT THIS LOCATION.
  - FIRE PROTECTION PIPING REFER TO FIRST FLOOR PLAN NETWORK FIRE PROTECTION, DRAWING M14 FOR CONTINUATION LOCATION FIRE DEPARTMENT SIAMERE CONNECTION AT THIS LOCATION.
  - LOCATE FIRE GONG AT THIS LOCATION.
  - PROVIDE MIN. 3/4" COVER OVER WATER.



**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

NO.	REVISION	DATE
1	ADD WATERLINE FROM 2" FIRE LINE TO NORTH END OF BUILDING.	04-28-84

**APPROVED**  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 7-22-87

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER *James Boyd* DATE 9-8-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DIRECTOR *Wm. P. An...* DATE 9-11-87

APPROVED: STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR *James P. Lewis* DATE 9/15/87

APPROVED: CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DIRECTOR *Richard H. Bend* DATE 9-14-87

**Gaudreau, Inc.**  
Architects Planners Engineers  
Baltimore

810 Light Street Baltimore Maryland 21230

**Faisant Associates, Inc.**  
Structural Engineers

**Kibart, Inc.**  
Mechanical/Electrical Engineers

**Purdum & Jeschke**  
Civil Engineers

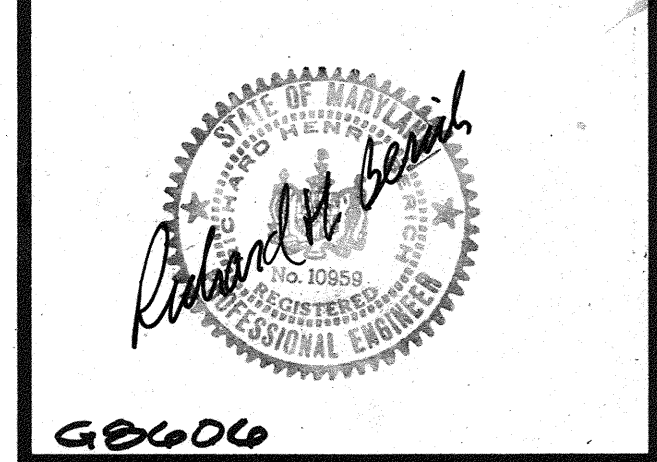
**DEVELOPER'S CERTIFICATION**

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

**ENGINEER'S CERTIFICATION**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Richard H. Bend* 9/24/87  
DEED 393/29  
ELECTION DISTRICT 3  
TAX MAP 10 PARCEL 35



**SISTERS OF BON SECOURS, U.S.A.**  
1525 MARRIOTTSTVILLE ROAD  
MARRIOTTSTVILLE, MD. 21104  
HOWARD CO., MD.  
GRADING AND UTILITY PLAN

PROJ NO SDP-87-252  
SCALE  
DATE AUG. 17, 1987  
DWG NO  
**C-4**  
SHEET 4 OF 13