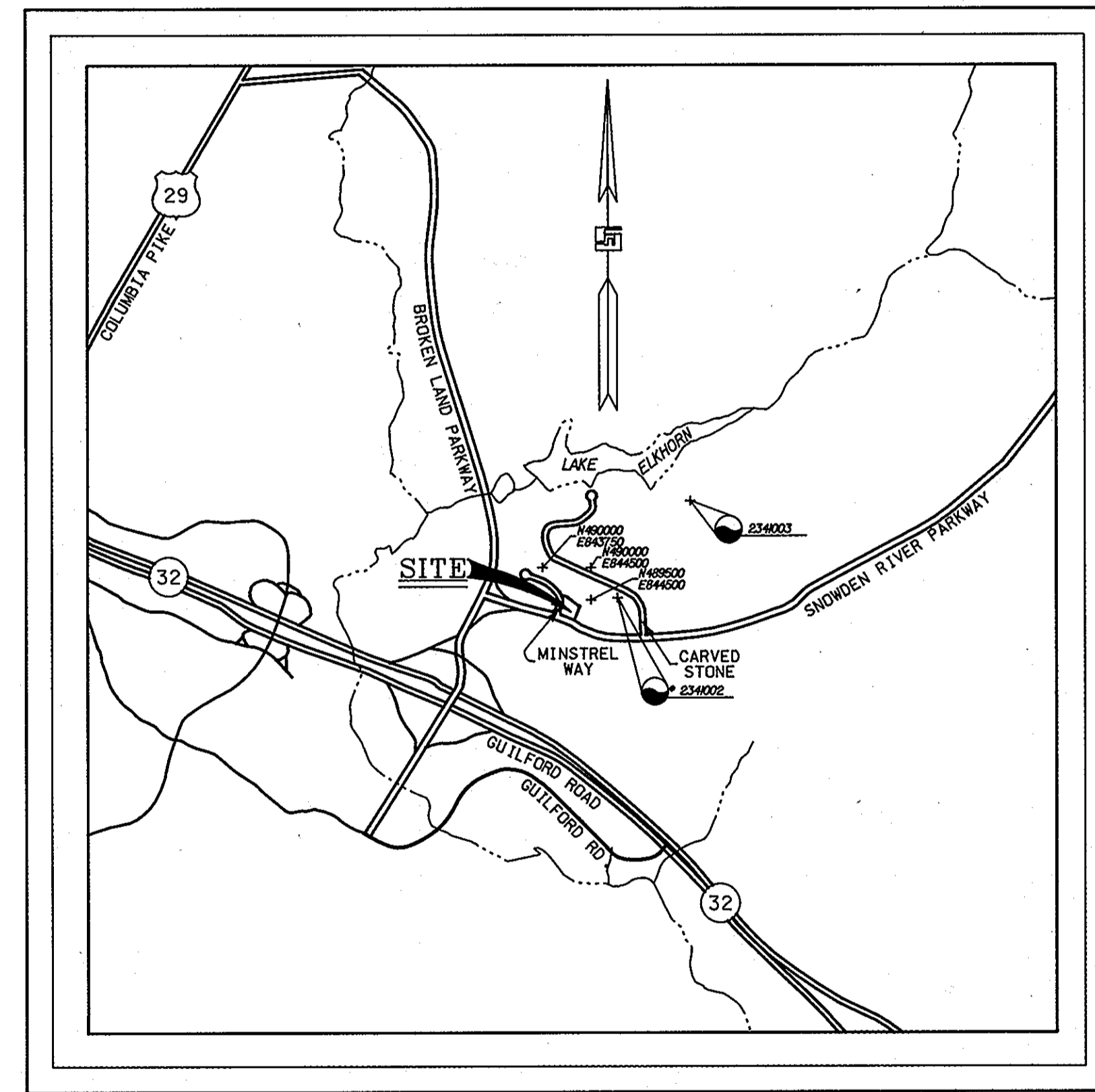


**GENERAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER AT (410)-879-2090 IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY, WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 WORKING DAYS PRIOR TO BEGINNING WORK:  
 MISS UTILITY: 1-800-257-7777  
 C&P TELEPHONE CO. 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES 313-2366  
 AT&T CABLE LOCATION DIVISION 393-3553  
 BGE 685-0123  
 NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (313-1855)
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A GASOLINE STATION, CONVENIENCE STORE, AND CAR WASH.
- THE STORM WATER MANAGEMENT FOR THIS PARCEL WAS CONSTRUCTED UNDER PROJECT F-82-96. (FOR QUANTITY MANAGEMENT ONLY.)
- THE WATER QUALITY STRUCTURE WILL BE PRIVATELY OWNED AND MAINTAINED.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE CONVENIENCE STORE SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
- ALL DETERGENT USED IN THE CAR WASH FACILITY SHALL BE "PHOSPHATE FREE" AS PER HOWARD COUNTY REGULATIONS.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. A 1" WATER METER SHALL BE LOCATED WITHIN THE CONVENIENCE STORE AND WILL MEET ALL HOWARD COUNTY STANDARDS. ON SITE WATER AND SEWER SHALL BE PRIVATE.
- THE SITE SHALL MEET ALL SPECIAL CRITERIA CONTAINED IN FDP PHASE 118-A-III PART II RECORDED IN PLAT 3054A-1246 THROUGH 1250 ON 9/22/92.
- PLAN FILE REFERENCES: F 82-96, F 90-29, F 92-02, SDP 91-131, SDP 92-05
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINAL RESIDENTIAL PROPERTY.
- REVISED TRAFFIC STUDY INCORPORATING PROPOSED SERVICE STATION COMPLETED BY WELLS AND ASSOCIATES, INC.
- WETLANDS STUDY COMPLETED ON MAY 16, 1991 BY EXPLORATION RESEARCH, INC. AT WHICH TIME IT WAS DETERMINED THAT NO (ZERO) NON-TIDAL WETLANDS OCCUR WITHIN THE BOUNDARIES OF THIS SITE.



7100 MINSTREL WAY  
 HOWARD COUNTY, MARYLAND  
 RAS# 2-1640



**LOCATION MAP**

SCALE: 1"=1000'  
 HOWARD COUNTY ADC MAP  
 PAGE NUMBER 15

**BENCHMARK INFORMATION**

COORDINATES AND ELEVATIONS SHOWN HEREON ARE BASED ON INFORMATION SUPPLIED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR THE FOLLOWING HOWARD COUNTY SURVEY CONTROL MONUMENTS:  
 2341002 N 489530.993  
 E 844809.751  
 ELEVATION 359.684  
 2341003 N 491030.005  
 E 846041.302  
 ELEVATION 367.23

**SHEET INDEX**

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING SITE AND DEMOLITION PLAN & SOILS MAP
3	SITE DEVELOPMENT PLAN
4	GRADING PLAN
5	SITE UTILITIES AND PIPING PLAN
6	SEDIMENT & EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL NOTES & DETAILS
8	BUILDING AND SIGNAGE PLAN
9	SITE DETAILS
10	SITE DETAILS
11	LANDSCAPE PLAN

**SITE ANALYSIS**

- AREA OF PARCEL: 1.568 ACRES, 68,286 SQUARE FEET
- ZONING: NEW TOWN EMPLOYMENT CENTER COMMERCIAL  
 a. BOARD OF COUNTY COMM. CASE 412 RESOLUTION APPROVED 8-10-1965  
 b. AMENDED B.C.C. CASE 507 RESOLUTION APPROVED 11-4-1968  
 c. AMENDED Z.B. CASE 606 RESOLUTION APPROVED 11-22-1972  
 d. AMENDED Z.B. CASE 644 RESOLUTION APPROVED 1-7-1974  
 e. AMENDED Z.B. CASE 693 RESOLUTION APPROVED 12-20-1976  
 f. AMENDED Z.B. CASE 817 RESOLUTION APPROVED 9-9-1986  
 g. AMENDED Z.B. CASE 918 RESOLUTION APPROVED 3-17-1992  
 h. FINAL DEVELOPMENT PLAN PHASE 118A-III PART II RECORDED IN PLAT 3054-A-1246 THROUGH 1250 ON 9-22-1992
- PROPOSED USE: COMMERCIAL GASOLINE STATION, CONVENIENCE STORE AND CAR WASH.
- FLOOR SPACE:  
 a. CONVENIENCE STORE:  
 GROSS AREA: 1,431 SQUARE FEET.  
 RETAIL AREA: 880 SQUARE FEET.  
 STORAGE AREA: 551 SQUARE FEET.  
 b. CAR WASH:  
 GROSS AREA: 756 SQUARE FEET
- MAXIMUM NUMBER OF EMPLOYEES: TWO (2)
- PARKING:  
 a. REQUIRED:  
 EMPLOYEES: 2 EACH  
 CONVENIENCE STORE: 1,431 SF/200 = 7.2  
 TOTAL = 10 SPACES.  
 b. PROVIDED:  
 11 SPACES (INCLUDING 1 H.C. SPACE)
- OPEN SPACE (LANDSCAPING)  
 a. REQUIRED % FOR ENTIRE SITE: 20  
 b. PROVIDED % FOR ENTIRE SITE: 42
- BUILDING COVERAGE: 2,187 SF; 3.2%
- CARWASH STACKING  
 a. REQUIRED: 15 SPACES PER. FDP 118A-111 PART II  
 b. PROVIDED: 22 SPACES.

PLANNING BOARD APPROVAL

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY

DATE: 5-27-93

6-9-93  
 DATE

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER

DAVID R. HALL  
 PROFESSIONAL ENGR. NO. 100917

FOR REVISION 1

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER

ROBERT H. VOSEL  
 PROFESSIONAL ENGR. NO. 100917

**ADDRESS CHART**

PARCEL	STREET ADDRESS
A-32	7100 MINSTREL WAY

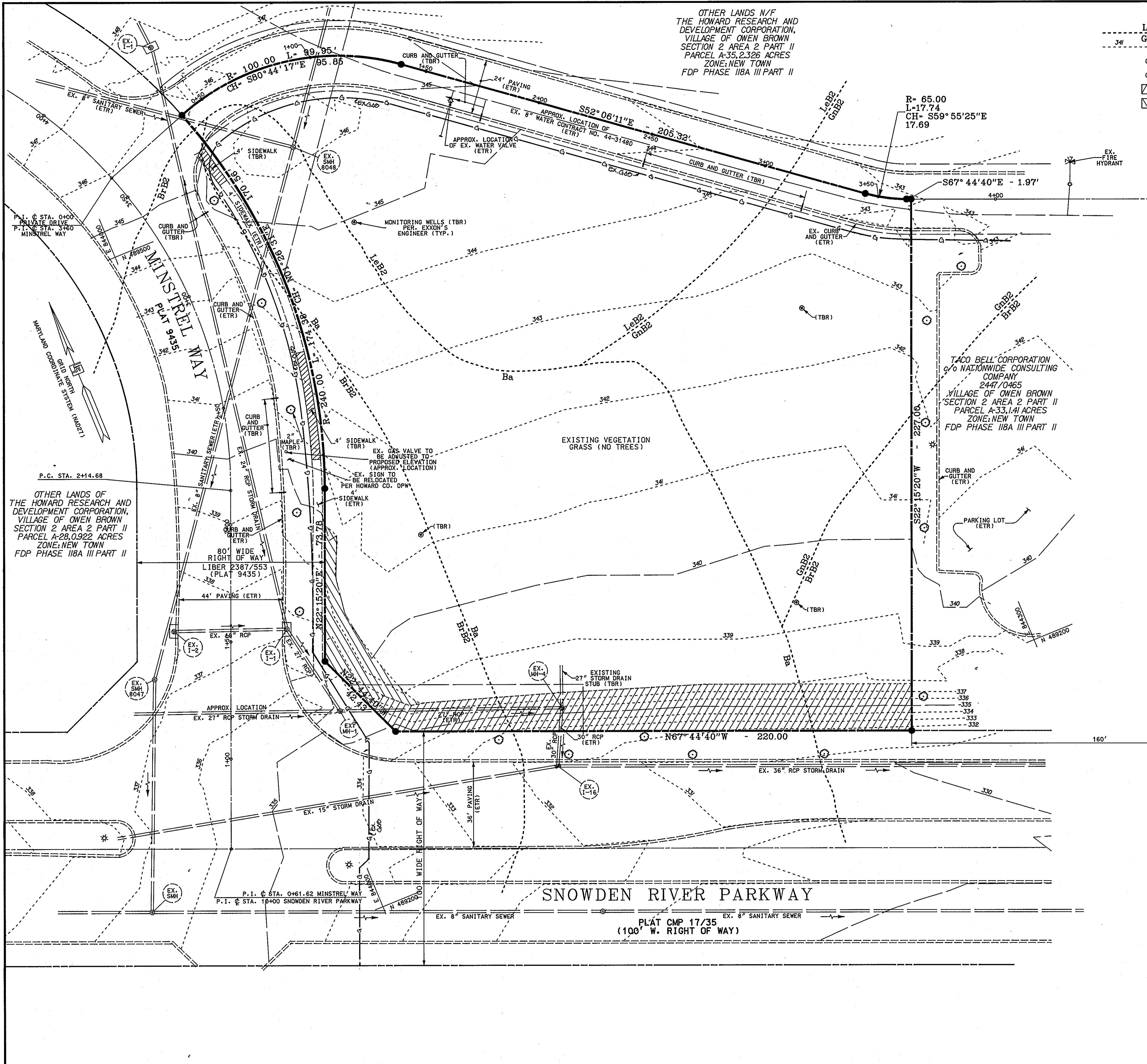
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL NO.
VILLAGE OF OWEN BROWN	2/2	A-32

PLAY NO.	BLOCK NO.	ZONE	TAX/ZONE-	ELECT. DIST.	CENSUS TR.
F-32-02	3	NEW TOWN COMMERCIAL	42	6	6061.03

WATER CODE: E-12  
 SEWER CODE: 5272200

8/25/93	1	REVISE PLAN TO ADD CARWASH, CONVENIENCE STORE AND SIGNAGE												
DATE:	NUMBER	REVISION DESCRIPTION												
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.														
[Signature]		7/30/93 DATE												
[Signature]		8/16/93 DATE												
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.														
[Signature]		8/16/93 DATE												
[Signature]		8/16/93 DATE												
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.														
[Signature]		8-11-93 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]		6-9-93 DATE												
BY THE DEVELOPER: "I ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."														
[Signature]		6-4-93 DATE												
REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.														
[Signature]		7/28/93 DATE												
THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.														
[Signature]		7/28/93 DATE												
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193														
DEVELOPER: <b>EXXON COMPANY, U.S.A.</b> 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. NEAL METZENDORF PHONE: (301)-513-7511														
<table border="1"> <tr> <td><b>FREDERICK WARD ASSOCIATES INC.</b></td> <td>ENGINEERS</td> <td>ARCHITECTS</td> <td>SURVEYORS</td> </tr> <tr> <td>5 SOUTH MAIN STREET                  ATTN: MR. JOHN MARCHI</td> <td>REL. ARYLAND 20704</td> <td>(410)879-2090</td> <td></td> </tr> <tr> <td>FVA JOB NUMBER 83284-00</td> <td>FVA DRAWING FILE NAME PXTT101</td> <td></td> <td></td> </tr> </table>			<b>FREDERICK WARD ASSOCIATES INC.</b>	ENGINEERS	ARCHITECTS	SURVEYORS	5 SOUTH MAIN STREET ATTN: MR. JOHN MARCHI	REL. ARYLAND 20704	(410)879-2090		FVA JOB NUMBER 83284-00	FVA DRAWING FILE NAME PXTT101		
<b>FREDERICK WARD ASSOCIATES INC.</b>	ENGINEERS	ARCHITECTS	SURVEYORS											
5 SOUTH MAIN STREET ATTN: MR. JOHN MARCHI	REL. ARYLAND 20704	(410)879-2090												
FVA JOB NUMBER 83284-00	FVA DRAWING FILE NAME PXTT101													
AREA: VILLAGE OF OWEN BROWN SECTION 2 AREA 2 TAX MAP 42 PARCEL 410 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND														
TITLE: FOR AN EXXON STATION AT PARCEL A-32 COVER SHEET														
DESIGN BY: J.M.M.	SCALE: AS SHOWN	PROJECT NO.:												
DRAWN BY: C.B.	DATE: 05/28/93	DRAWING NUMBER												
CHECKED BY: T.F.W.	APPROVED:	01 OF 11												

SDP 93-92



OTHER LANDS N/F THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, VILLAGE OF OWEN BROWN SECTION 2 AREA 2 PART II PARCEL A-35,2326 ACRES ZONE: NEW TOWN FDP PHASE 118A III PART II

**LEGEND**

- LeB2 SOIL BOUNDARY
- GbB2 EX. CONTOUR
- (TBR) TO BE REMOVED
- (ETR) EXISTING TO REMAIN
- EX. SLOPES 15-24.9%
- EX. SLOPES 25% OR GREATER

**SOILS INFORMATION CHART**

SOIL	DESCRIPTION	GROUP	CHARACTERISTICS
Ba	BAILE SILT LOAM	D	UPLAND DEPRESSIONS POORLY DRAINED - LEVEL SOILS DOMINANTLY GRAY SOILS HIGH AVAILABLE MOISTURE CAPACITY
BrB2	BRANDYWINE LOAM	C	EXCESSIVELY DRAINED, GENTLY SLOPING TO VERY STEEP SOILS SEVERELY ERODED LOW AVAILABLE MOISTURE CAPACITY
GbB2	GLENVILLE SILT LOAM	C	3 TO 8 PERCENT SLOPES MODERATELY ERODED, FAIR STABILITY ERODIBILITY, MEDIUM DENSITY
LbB2	LEGORE SILT LOAM	C	3 TO 8 PERCENT SLOPES MODERATELY ERODED, FAIR STABILITY ERODIBILITY, VARIABLE DENSITY

HOWARD COUNTY, MD. - SOIL SURVEY - SOILS MAP - SHEET 29

**NOTES**

1. CONTRACTOR SHALL REMOVE EXISTING CURB AND GUTTER AT ALL ENTRANCES TO SITE. CONTRACTOR SHALL INSTALL H.C. RAMPS AT SAID ENTRANCES AS SHOWN, TAKING CARE TO MEET AND MATCH EXISTING 4" - 6" CONCRETE SIDEWALK AND CURB AND GUTTER. SEE DRAWING NO. 4 FOR LOCATION OF CURB AND GUTTER REMOVAL.
2. SURVEY PREPARED BY FREDERICK WARD ASSOCIATES INC. ON FEBRUARY 10, 1993. CONTOUR INTERVAL EQUALS ONE FOOT.
3. EXISTING UTILITIES WERE LOCATED IN THE FIELD DURING THE TOPOGRAPHICAL SURVEY OF THE SITE. UNLESS NOTED AS APPROXIMATE (FROM REFERENCE PLANS.)
4. EXISTING STORM DRAIN STRUCTURE REFERENCED FROM PLAN F-90-29.
5. EXISTING SEWER STRUCTURES REFERENCED FROM SEWER CONTRACT C-2616-D W&S CCF# E-2-2-74412 A23.

OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, VILLAGE OF OWEN BROWN SECTION 2 AREA 2 PART II PARCEL A-28,0922 ACRES ZONE: NEW TOWN FDP PHASE 118A III PART II

TACO BELL CORPORATION  
NATIONWIDE CONSULTING COMPANY  
2447/0465  
VILLAGE OF OWEN BROWN SECTION 2 AREA 2 PART II PARCEL A-33,141 ACRES ZONE: NEW TOWN FDP PHASE 118A III PART II

DATE:	NUMBER	REVISION DESCRIPTION
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
		APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

[Signature] 7/30/93  
 CHIEF-BUREAU OF ENGINEERING  
 [Signature] 8/14/93  
 DIRECTOR  
 [Signature] 8/16/93  
 DIRECTOR  
 [Signature] 8-11-93  
 COUNTY HEALTH OFFICER

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 5-27-93

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER: **EXXON COMPANY, U.S.A.**  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. NEAL METZENDORF  
 PHONE: (301)-513-7511

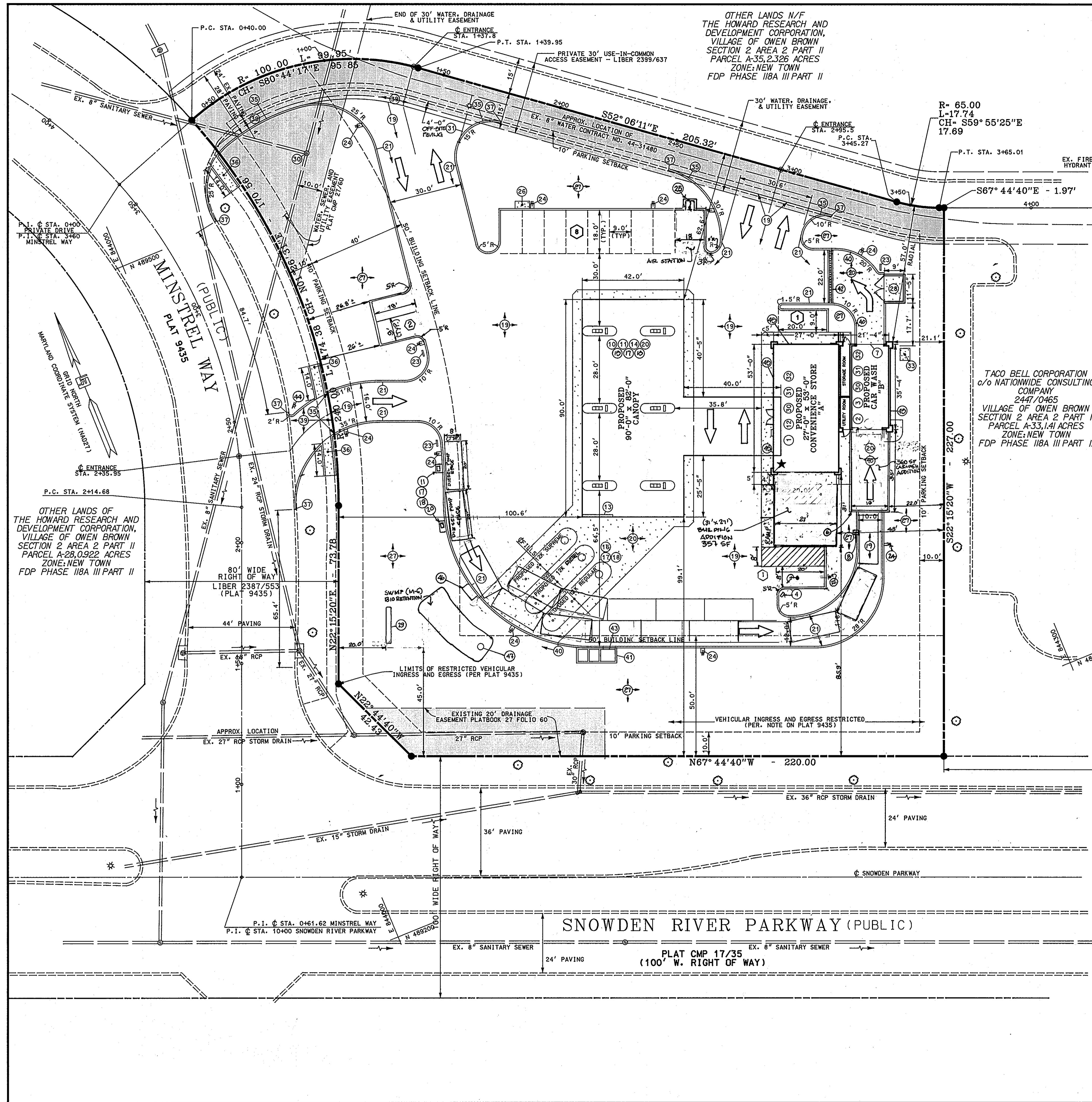
**FREDERICK WARD ASSOCIATES INC.**  
 ENGINEERS ARCHITECTS SURVEYORS  
 5 SOUTH MAIN STREET ATTN: JOHN MACHOR BEL AIR, MARYLAND 21014 (410)779-2090  
 FWA JOB NUMBER: 03044.00 FWA DRAWING FILE NAME: P126M002

AREA: VILLAGE OF OWEN BROWN  
 SECTION 2 AREA 2  
 TAX MAP 42 PARCEL 410  
 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION AT PARCEL A-32 EXISTING SITE AND DEMOLITION PLAN & SOILS MAP

DESIGN BY: J.M.M. SCALE: 1"=20' PROJECT NO.:  
 DRAWN BY: C.B. DATE: 06/03/1993 DRAWING NUMBER:  
 CHECKED BY: T.F.W. APPROVED: 02 OF 11

STATE OF MARYLAND  
 DAVID R. HALL  
 PROFESSIONAL ENGR. NO. 10211

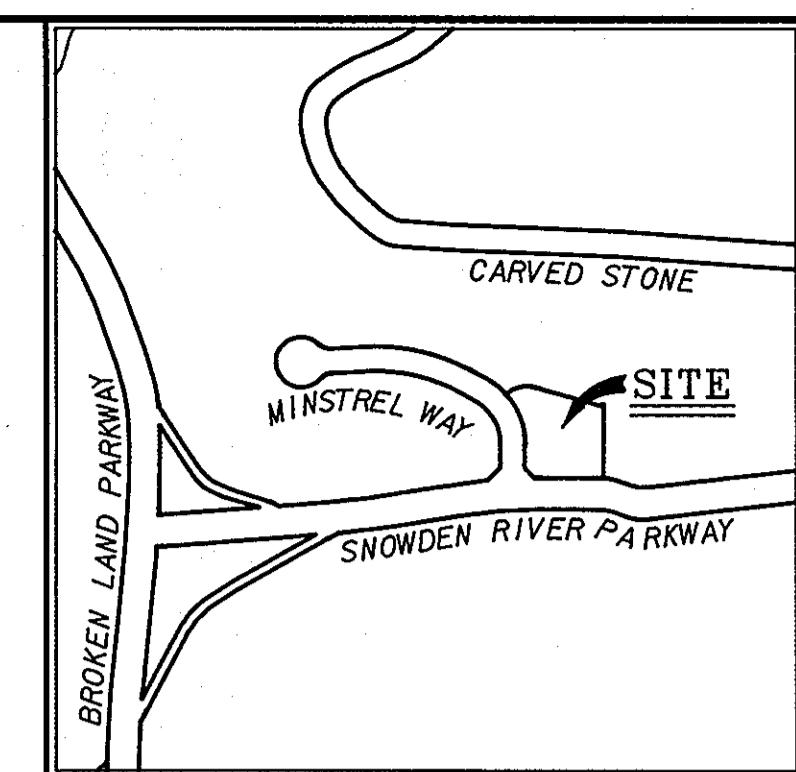


**GENERAL NOTES**

- B.S. - BUILDING SUPPLIER
- G.C. - GENERAL CONTRACTOR
- E. - EXCON
- O. - OTHER
- ★ - BUILDING ORIENTATION POINT
- 239 - EXISTING CONTOUR
- 239.6 - PROPOSED CONTOUR
- 239.6 - PROPOSED SPOT ELEVATION
- (I) - IMPROVEMENT ITEM
- (N) - NEW CONCRETE (ON PLAN)
- (R) - EXISTING TO REMAIN
- (TR) - INDICATES TRAFFIC FLOW ONLY. DOES NOT REFLECT PAINTED TRAFFIC CONTROLS.

- ALL UTILITY CONNECTIONS ARE TO BE AS PER LOCAL CODE BY G.C.
- G.C. TO PROVIDE CONDUIT & WIRING TO ALL EXCON I.D. SIGNS & CONDUIT ONLY TO PUBLIC TELEPHONE BOOTH.
- SITE PLAN SUPERSEDES ALL WORKING DRAWINGS.
- UNLESS OTHERWISE NOTED, ALL PAINT TO BE FURNISHED BY G.C.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND CONSTRUCTION AS SHOWN ON PLANS UNLESS OTHERWISE NOTED.

ITEM NUMBER	FURNISHED BY	INSTALLED BY	DRAWING NUMBER
1	BS	BS	0600-1-17
2	GC	GC	0600-1-17
3	E	O	
4	E	O	
6	E	GC	
7	E	GC	
8	E	O	
9	E	GC	SHT. 8 OF 11
10	BS	BS	
11	E	GC	0600-1-17
12	E	GC	7500-1
13	E	BS	
14	GC	GC	SHT. 5 OF 11
15	E	GC	0600-1-3
16	E	GC	7030, 1-5 1000-1
17	E	GC	
18	GC	GC	
19	GC	GC	80025, 1-2
20	GC	GC	
21	GC	GC	SHT. 9 OF 11
22	GC	GC	SHT. 8 OF 11
23	E	GC	
24	E	GC	1043, 1-2, SHT. 9 OF 11
25	GC	GC	1043, 1-2, 80025, 1-2
26	GC	GC	1043, 1-2
27	GC	GC	100A, 1-2, SHT. 11 OF 11
28	GC	GC	1043, 1-2, SHT. 9 OF 11
29	E	GC	1100, 1 SHT. 8 OF 11
30	GC	GC	
31	GC	GC	SHT. 5 OF 11
32	GC	GC	
33	GC	GC	SHT. 5 OF 11
34	GC	GC	SHT. 9 OF 11
35	GC	GC	SHT. 9 OF 11
36	GC	GC	SHT. 9 OF 11
37	GC	GC	SHT. 2, 4 OF 11
38	GC	GC	SHT. 9 OF 11
40	GC	GC	80025-12
41	GC	GC	SHT. 10 OF 11
42	GC	GC	1043, 1-2
43	GC	GC	SHT. 10 OF 11
44	GC	GC	SHT. 10 OF 11
45	GC	GC	0600-1-17
47	GC	GC	



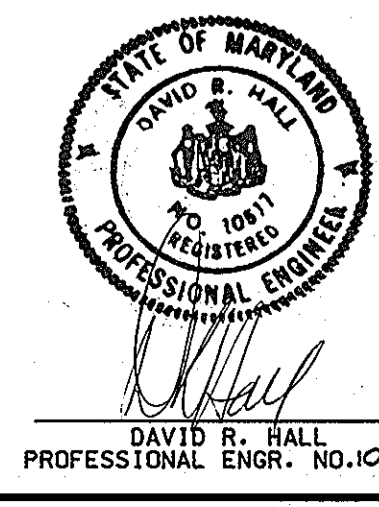
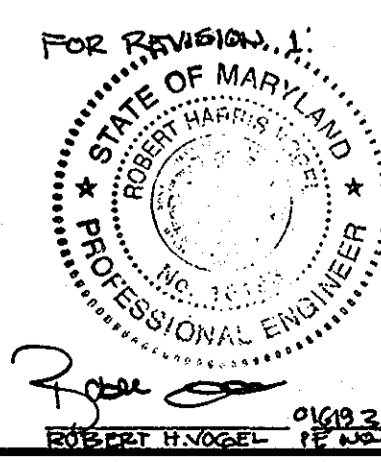
**VICINITY MAP**  
SCALE: 1" = 600'

DATE	NUMBER	REVISION DESCRIPTION
8/23/93	1	REVISE PLAN TO ADD CARWASH, CONVENIENCE STORE & EXHIBIT A.
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.		
 CHIEF-BUREAU OF ENGINEERING 7/30/93 DATE		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
 DIRECTOR 8/4/93 DATE		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
 COUNTY HEALTH OFFICER 8-11-93 DATE		

PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY

DATE: 5-27-93



OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: **EXXON COMPANY, U.S.A.**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. NEAL METZENDORF  
PHONE: (301)-513-7511

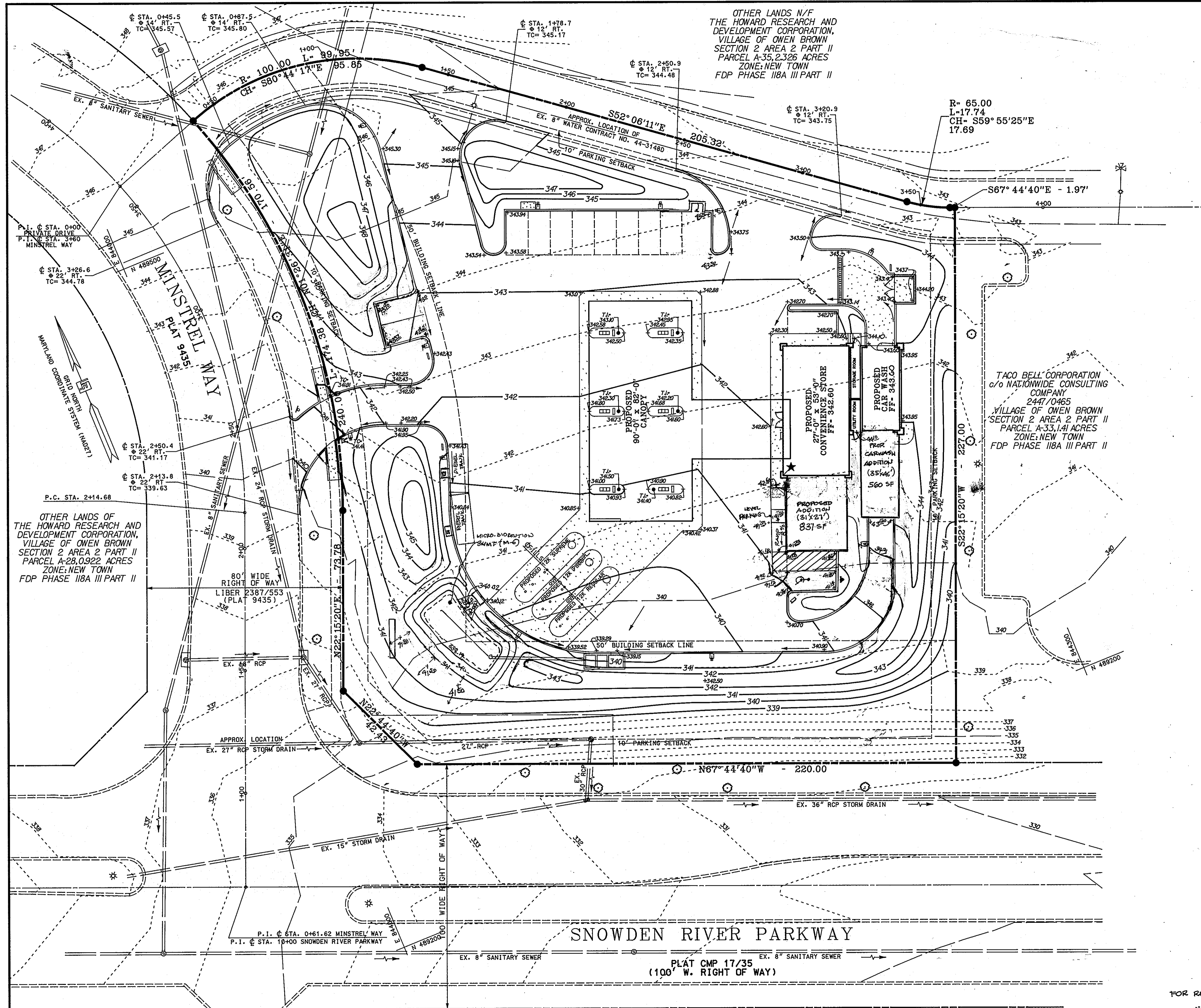
**FREDERICK WARD ASSOCIATES INC.**  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090  
ATTN: MR. JOHN MASCARE

FWA JOB NUMBER 9304.00 FWA DRAWING FILE NAME POS103

AREA: VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2  
TAX MAP 42 PARCEL 410  
6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

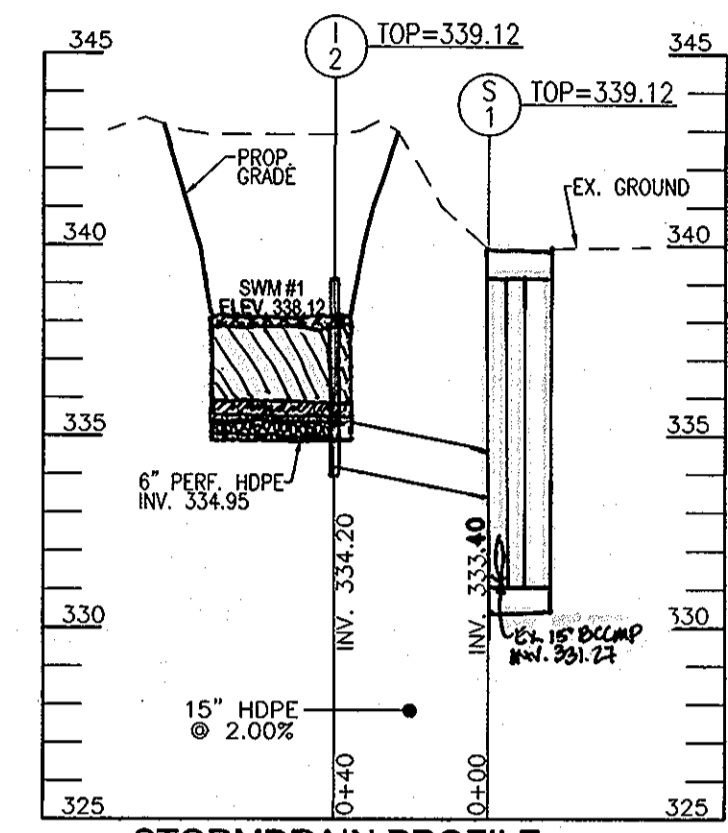
TITLE: FOR AN EXXON STATION  
AT PARCEL A-32  
SITE DEVELOPMENT PLAN

DESIGN BY: J. M. M.	SCALE: 1"=20'	PROJECT NO.:
DRAWN BY: C. B.	DATE: 07/08/1993	DRAWING NUMBER
CHECKED BY: T. F. W.	APPROVED:	03 OF 11



OTHER LANDS N/F  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION,  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-35, 2.326 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

OTHER LANDS OF  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION,  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-28, 0.922 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II



TACO BELL CORPORATION  
c/o NATIONWIDE CONSULTING  
COMPANY  
2447/0465  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-33, 1.41 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

08/20/93	1	REVISE THE PLAN TO ADD CAR WASH, CONVENIENCE STORE & SWMF
DATE:	NUMBER	REVISION DESCRIPTION
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.		
<i>Paul D. Seaman</i>	7/30/93	DATE
CHIEF-BUREAU OF ENGINEERING		
<i>Richard Blood</i>	8/4/93	DATE
DIRECTOR		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>Joseph L. Smith</i>	8/16/93	DATE
DIRECTOR		
<i>Richard Blood</i>	8/16/93	DATE
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joseph M. Boylan</i>	8-11-93	DATE
COUNTY HEALTH OFFICER		

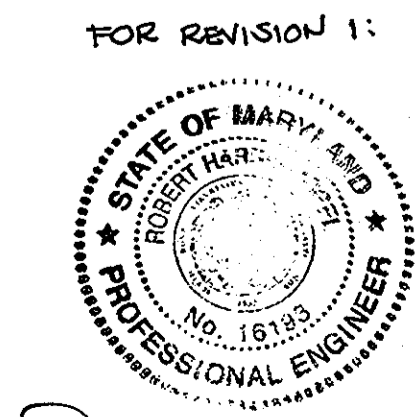
PLANNING BOARD APPROVAL  
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 5-27-93

OWNER  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

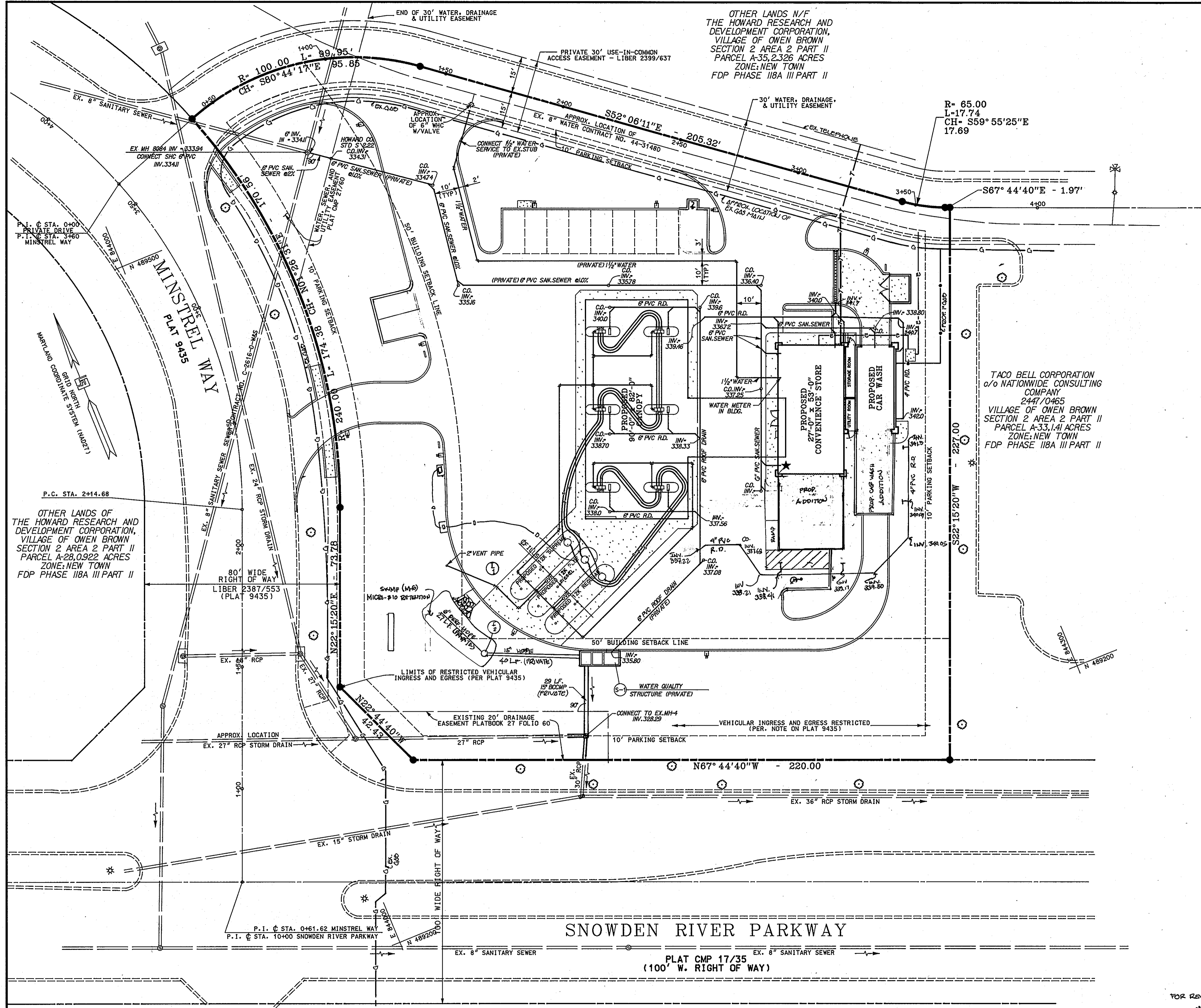
DEVELOPER  
**EXXON COMPANY, U.S.A.**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. NEAL METZENDORF  
PHONE: (301)-513-7511

<b>FREDERICK WARD ASSOCIATES INC.</b> ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)878-2090 ATTN: MR. JOHN MASCOLO FVA JOB NUMBER 93024.00 FVA DRAWING FILE NAME PGR0404
AREA VILLAGE OF OWEN BROWN SECTION 2 AREA 2 TAX MAP 42 PARCEL 410 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE FOR AN EXXON STATION AT PARCEL A-32 SITE GRADING PLAN
DESIGN BY: J.M.W. SCALE: 1"=20' PROJECT NO.: DRAWN BY: CB DATE: 07/08/93 DRAWING NUMBER CHECKED BY: T.F.W. APPROVED: DAVID B. HALL PROFESSIONAL ENGR. NO. 10217

NOTE:  
TC= TOP OF CURB  
SPOT ELEVATIONS ARE AT FLOWLINE  
TYPICAL ON SITE CURB HEIGHT = 6"  
— INDICATES PROPOSED FLOW PATH



FOR REVISION 1:  
10/93  
DATE



PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

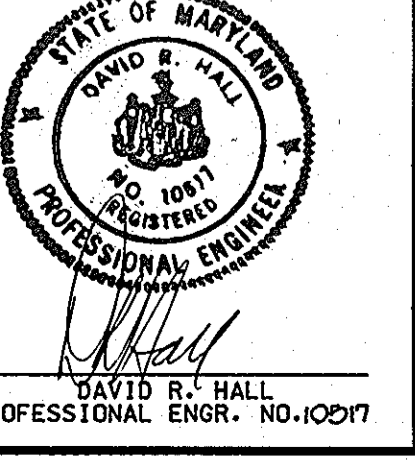
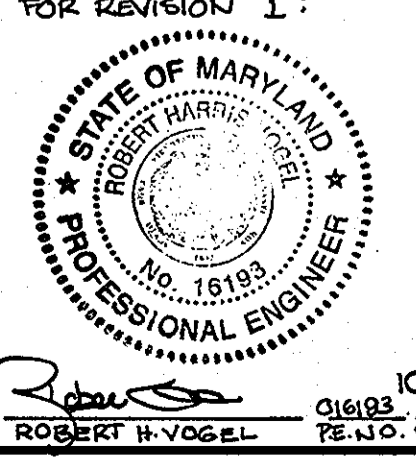
DATE 5-27-93

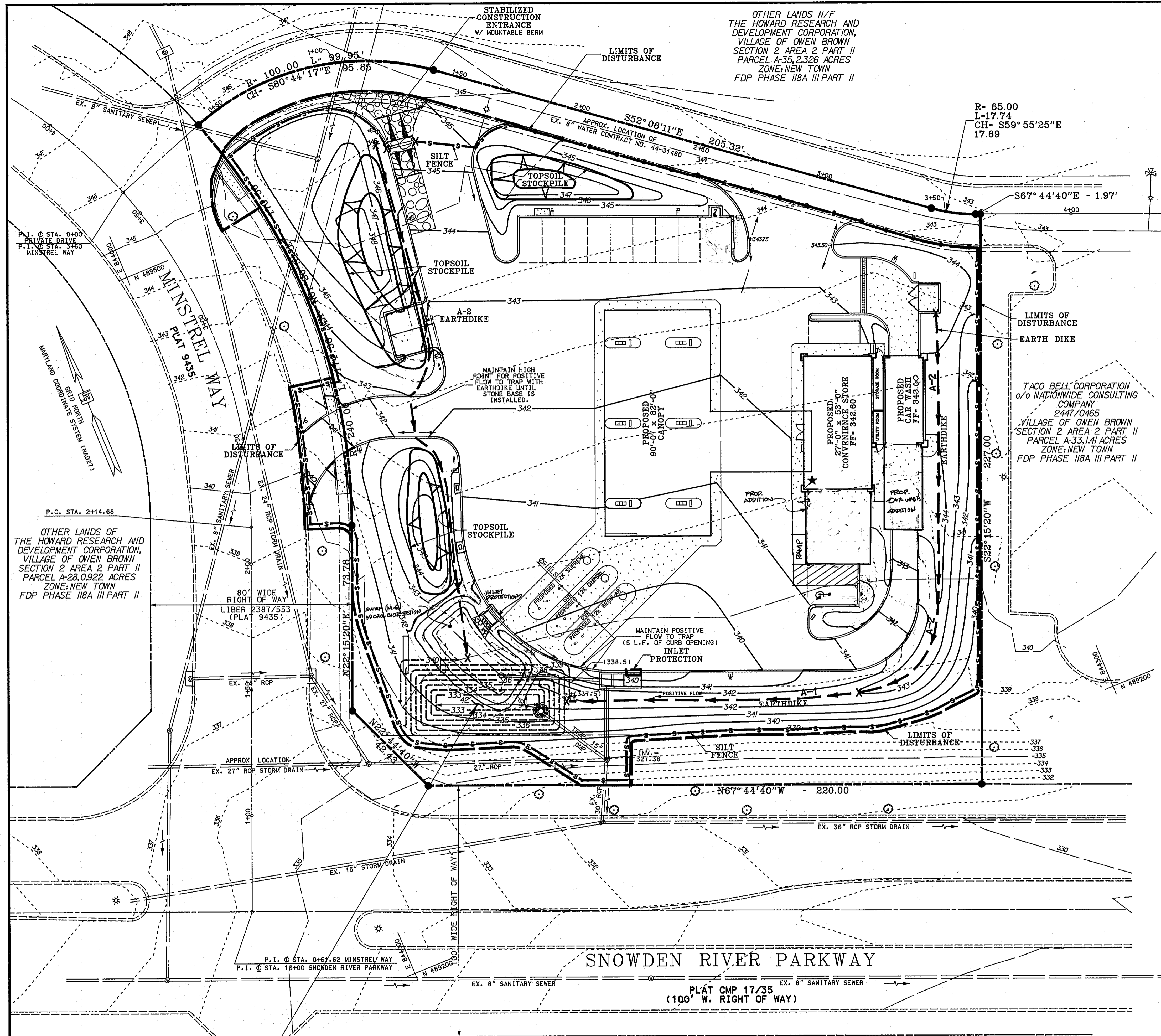
DATE	NUMBER	REVISION DESCRIPTION
8/25/93	1	REVISE PLAN TO ADD CARWASH, CONVENIENCE STORE AND SWM
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.		
<i>Richard Seaman</i>		7/30/93
CHIEF-BUREAU OF ENGINEERING		DATE
<i>Richard Seaman</i>		8/16/93
DIRECTOR		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>Juanita Butler</i>		8/16/93
DIRECTOR		DATE
<i>Richard Blood</i>		5/16/93
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Juanita Butler</i>		5-11-93
COUNTY HEALTH OFFICER		DATE

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: **EXXON COMPANY, U.S.A.**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. NEAL METZENDORF  
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.		
ENGINEERS	ARCHITECTS	SURVEYORS
5 SOUTH MAIN STREET BEL. AR. MARYLAND 2014 (410)870-2000 ATTN: MR. JOHN MASCARO		
FWA JOB NUMBER: 93064.00	FWA DRAWING FILE NAME: P02TLE05	
AREA:	VILLAGE OF OWEN BROWN SECTION 2 AREA 2 TAX MAP 42 PARCEL 410 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:	FOR AN EXXON STATION AT PARCEL A-32 PIPING AND UTILITY PLAN	
DESIGN BY:	J. M. M.	SCALE: 1"=20'
DRAWN BY:	C. B.	DATE: 07/02/1993
CHECKED BY:	T. F. W.	APPROVED: [Signature] DATE: 05 OF 11





OTHER LANDS N/F  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION,  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-35, 2.326 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

OTHER LANDS OF  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION,  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-28, 0.922 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

TACO BELL CORPORATION  
c/o NATIONWIDE CONSULTING  
COMPANY  
2447/0465  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-33, 1.41 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

**LEGEND**

PROPOSED GRADE	— 340 —
EXISTING GRADE	- - - 343 - - -
TEMPORARY GRADE	- - - 336 - - -
TEMPORARY SPOT ELEV.	+ (337.6)
LIMITS OF DISTURBANCE	— S —
SILT FENCE	X — S — X
EARTH DIKE	X — E.D. — X
STABILIZED CONSTRUCTION ENTRANCE	[Symbol]

DATE:	NUMBER	REVISION DESCRIPTION
7/30/93	1	REVISE PLAN TO ADD CARWASH, CONNECTION TO EX. 8" S.W.M.
8/14/93	2	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
8/14/93	3	APPROVED FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
8/16/93	4	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

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]* 6-9-93  
SIGNATURE OF ENGINEER DATE

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

*[Signature]* 6-4-93  
SIGNATURE OF DEVELOPER DATE

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

*[Signature]* 7/1/93  
U.S. SOIL CONSERVATION SERVICE DATE

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

*[Signature]* 7/1/93  
HOWARD S.C.D. DATE

OWNER  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER  
**EXXON COMPANY, U.S.A.**  
6301 IVY CANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. NEAL METZENDORF  
PHONE: (301) 513-7511

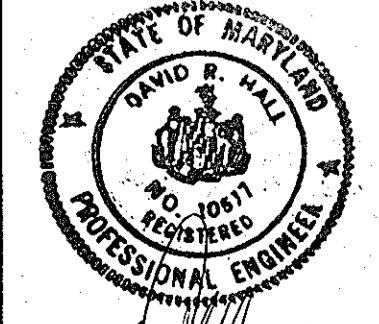
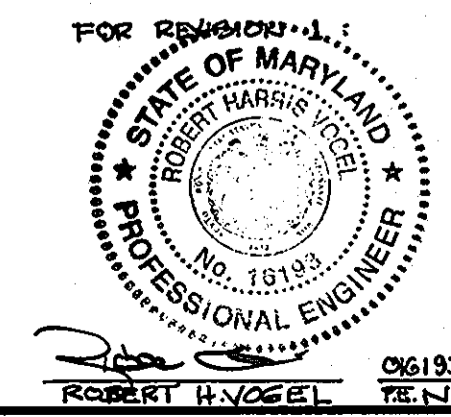
**FREDERICK WARD ASSOCIATES INC.**  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090  
FMA JOB NUMBER 93024.00 FMA DRAWING FILE NAME P20020

AREA	VILLAGE OF OWEN BROWN
TITLE	FOR AN EXXON STATION AT PARCEL A-32 SEDIMENT AND EROSION CONTROL PLAN
DESIGN BY:	J. M. M.
DRAWN BY:	C. B.
CHECKED BY:	T. F. W.
SCALE:	1"=20'
DATE:	07/02/1993
APPROVED:	[Signature]
PROJECT NO.:	
DRAWING NUMBER	06 OF 11

PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE: 5-27-93



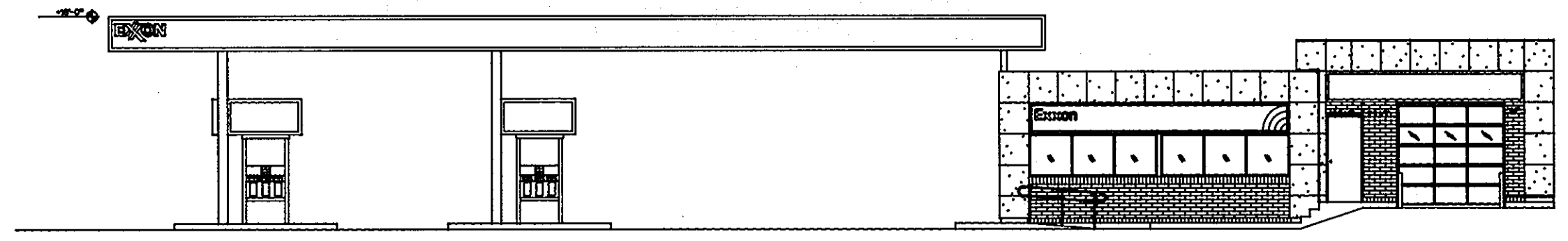
**PIPE OUTLET TRAP #1**

DRAINAGE AREA = 1.2 AC.  
REQUIRED STORAGE = 2160 C.F.  
PROVIDED STORAGE = 2184 C.F.  
BOTTOM ELEVATION = 335.0  
TOP OF EMBANKMENT = 338.0  
CLEAN OUT ELEVATION = 334.75  
RISER CREST ELEVATION = 336.5  
BOTTOM DIMENSIONS = 6' x 41"  
SIDE SLOPES = 2:1

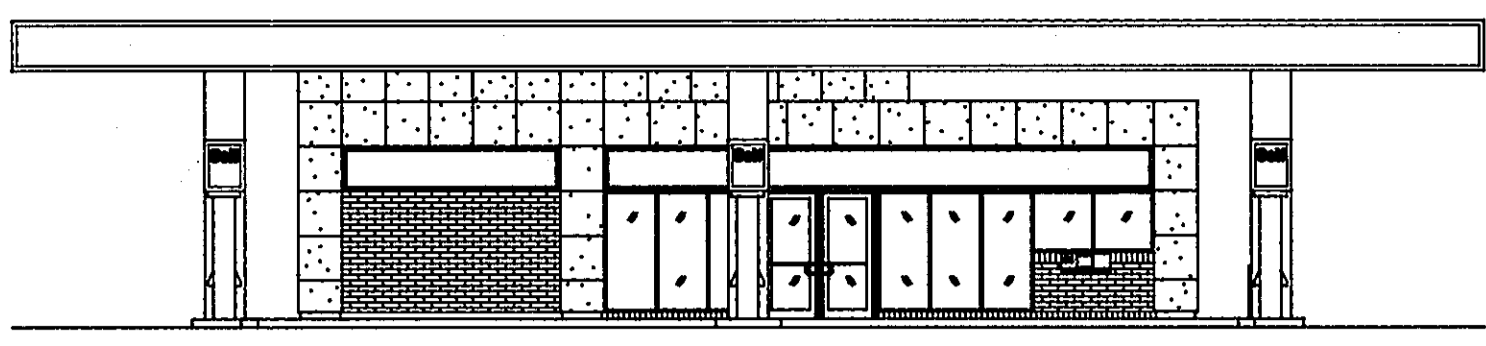
SNOWDEN RIVER PARKWAY

PLAT CMP 17/35  
(100' W. RIGHT OF WAY)

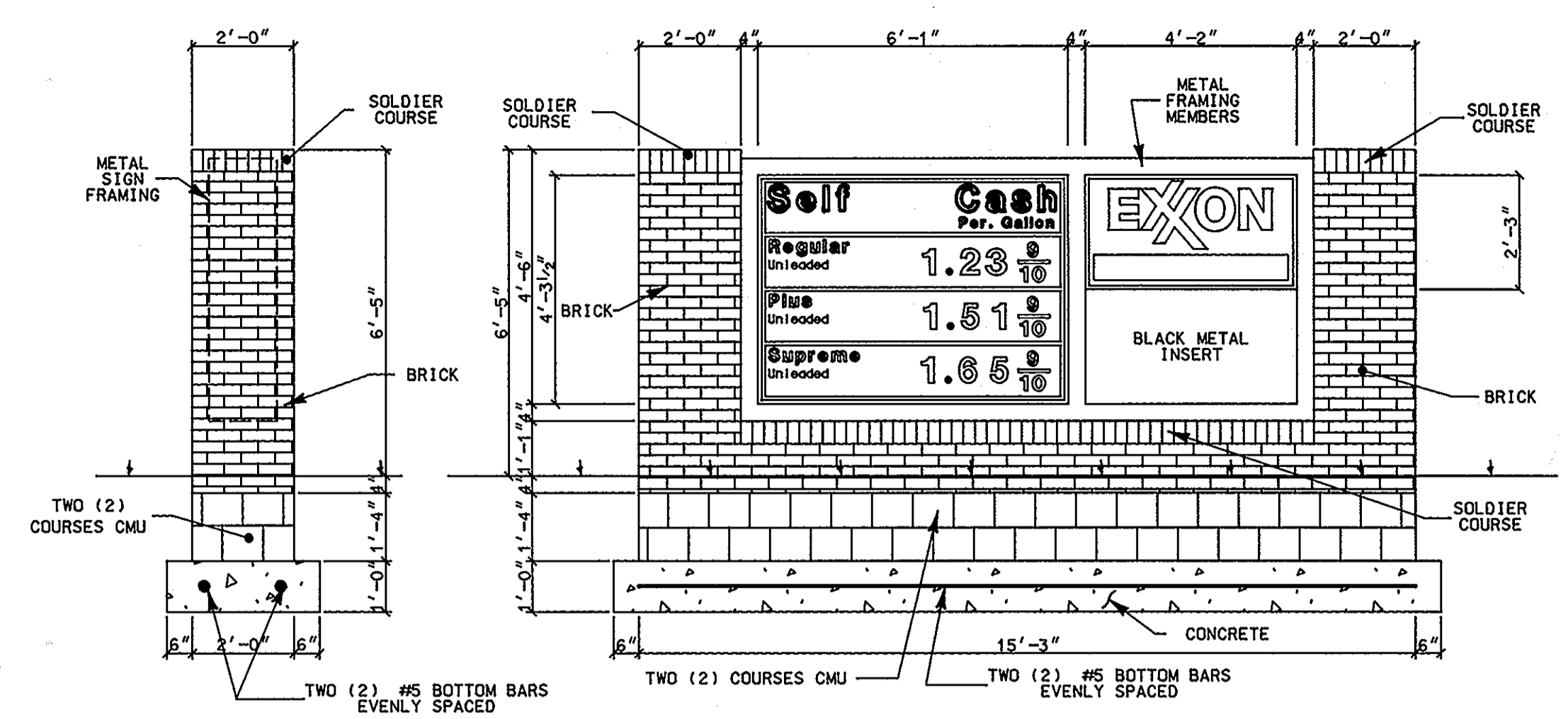




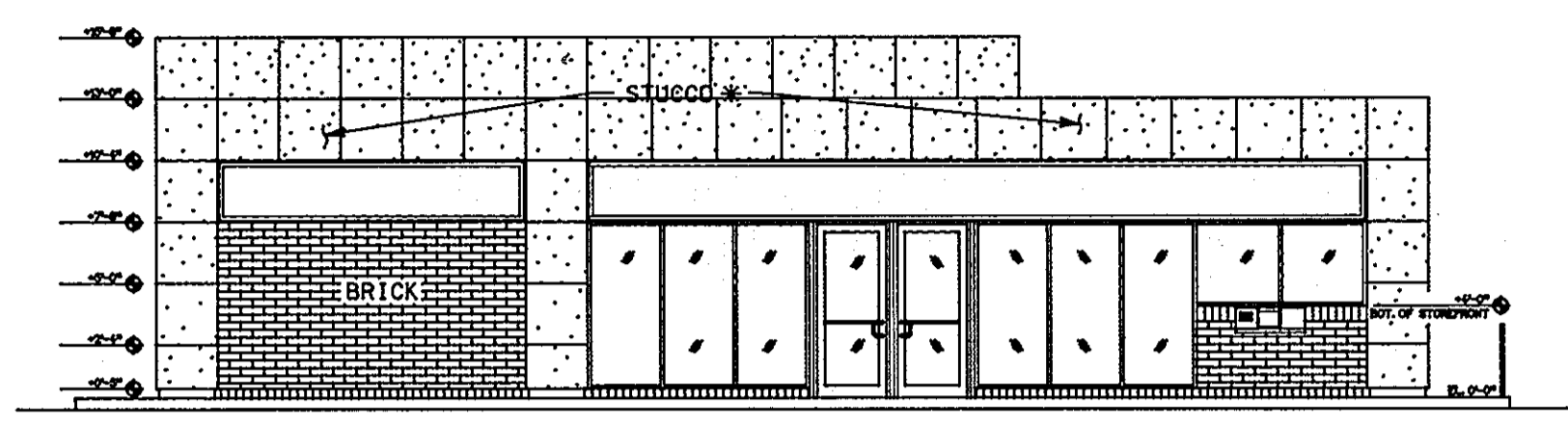
RIGHT SIDE PERSPECTIVE  
NOT TO SCALE



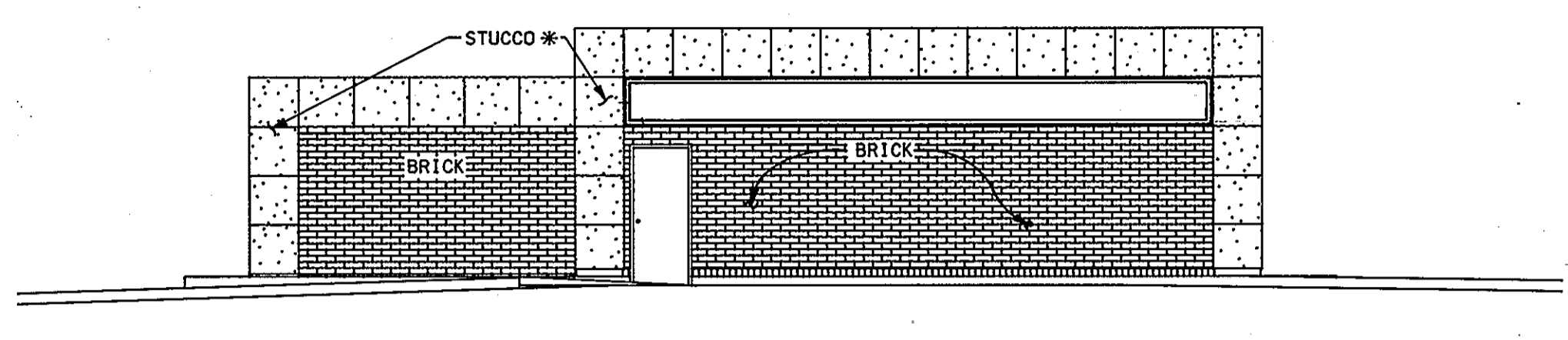
FRONT PERSPECTIVE  
NOT TO SCALE



FREE-STANDING SIGN DETAIL  
N.T.S.

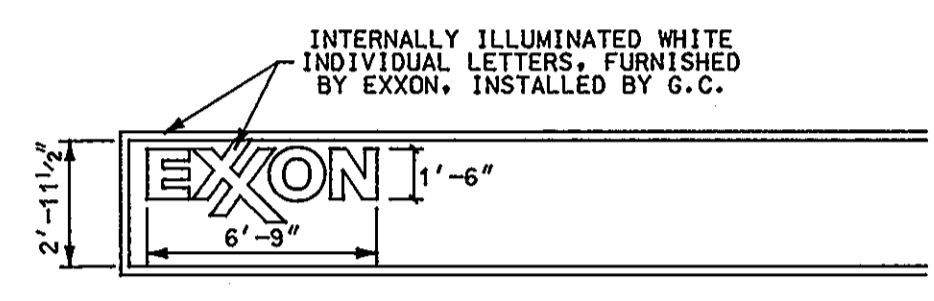


FRONT ELEVATION  
SCALE: 1/8" = 1'-0"

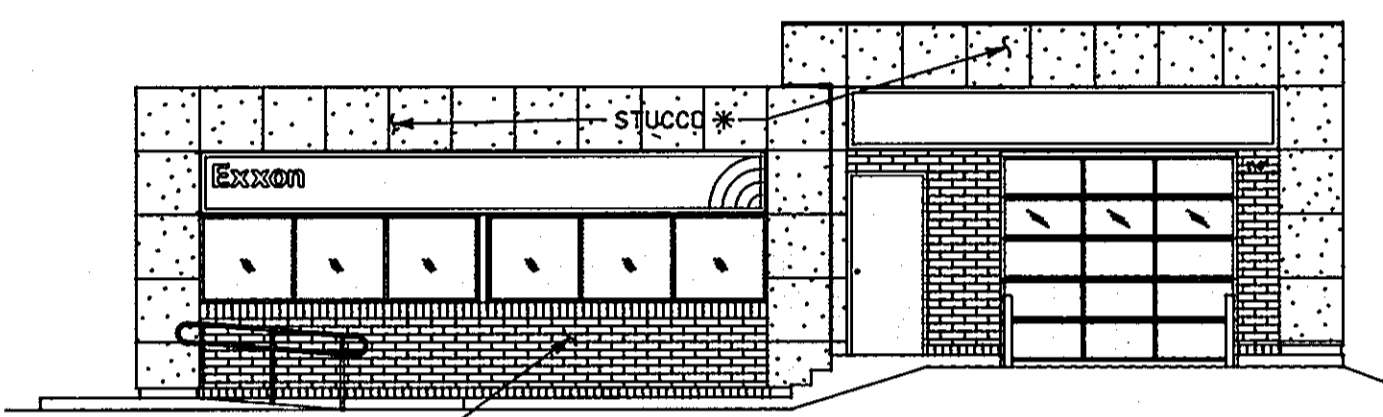


BACK ELEVATION  
SCALE: 1/8" = 1'-0"

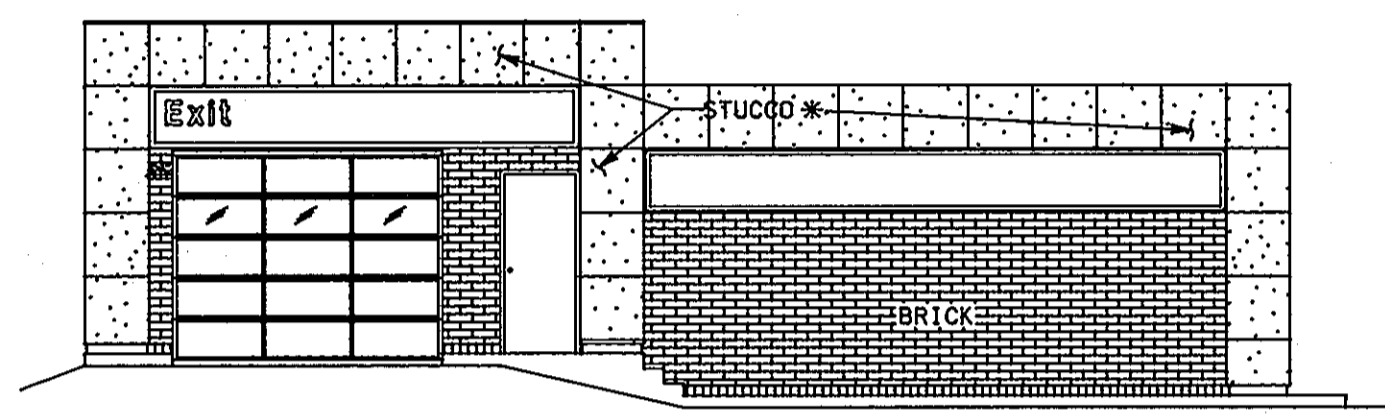
NOTE: ALL BRICK SHALL BE ACME BL41 FRENCH VANILLA VELOUR.



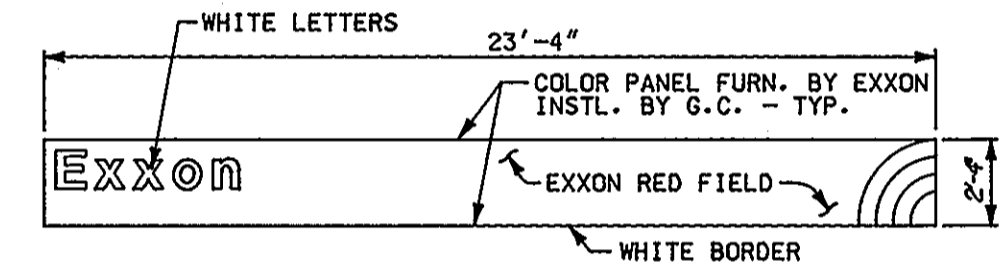
PROPOSED CANOPY FASCIA SIGN - 1013 SF.  
N.T.S.



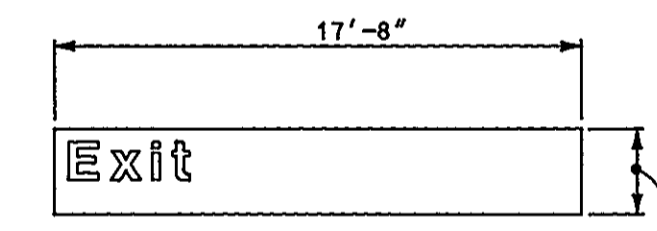
RIGHT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



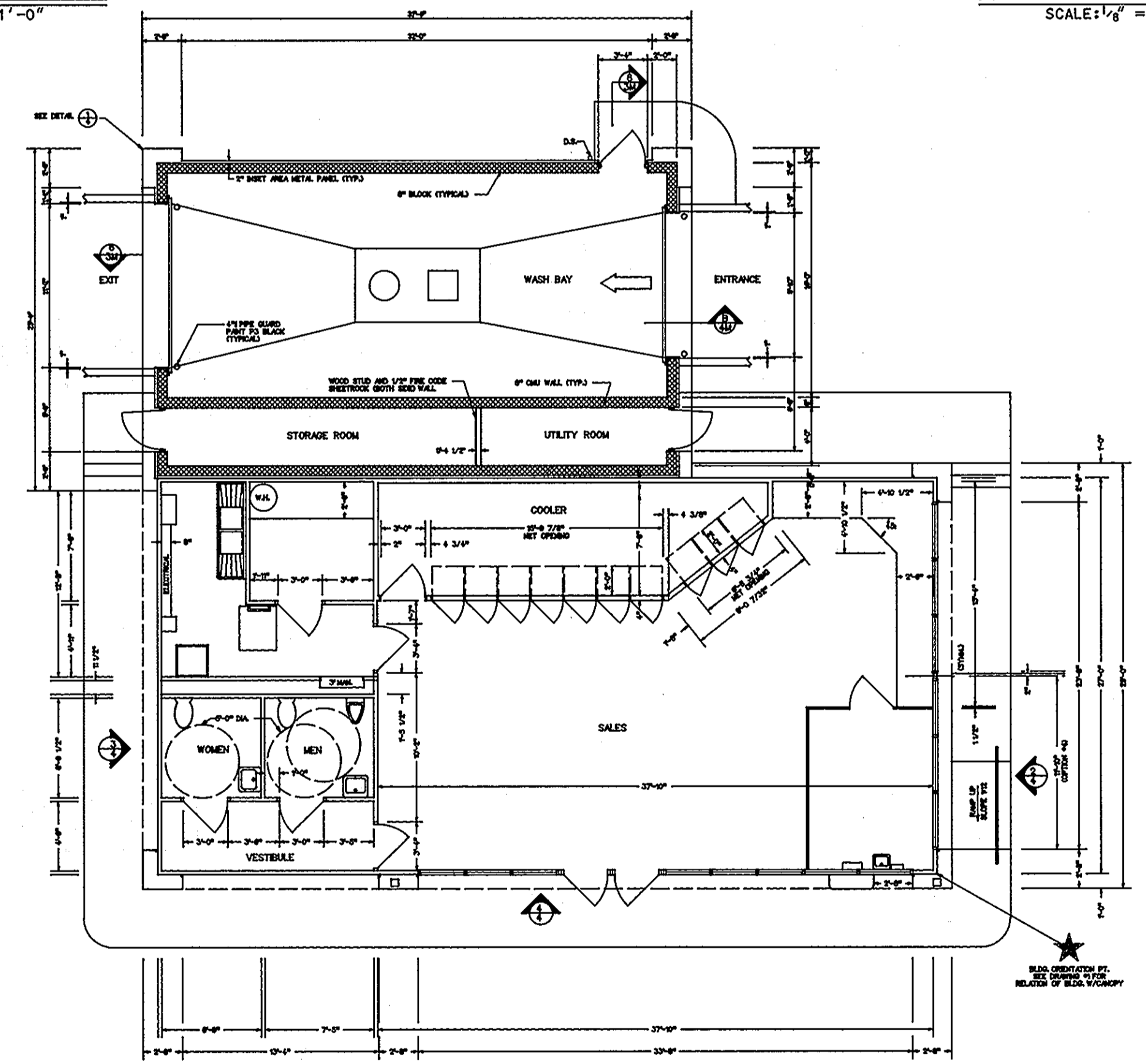
LEFT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



PROPOSED BUILDING SIGN - 54.36 SF.  
(DIRECTLY ILLUMINATED)  
N.T.S.



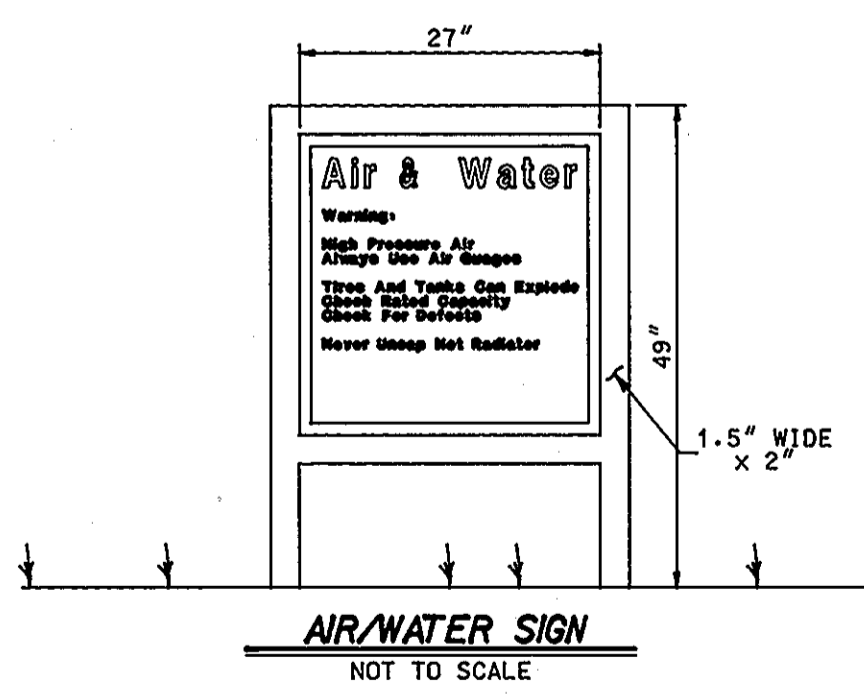
PROPOSED CAR WASH SIGN - 4122 SF.  
(DIRECTLY ILLUMINATED)  
N.T.S.



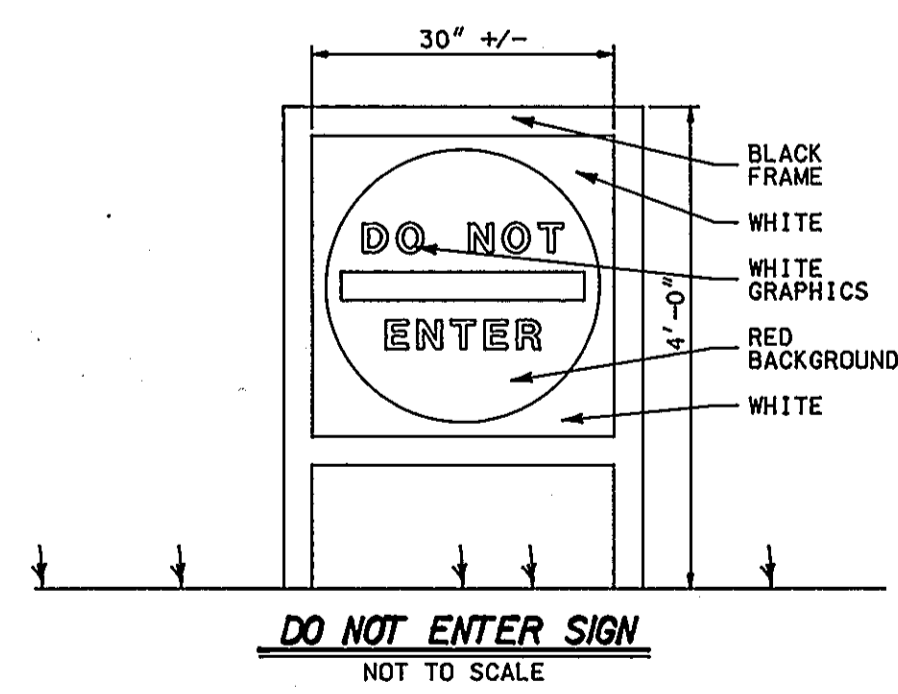
PLAN VIEW  
SCALE: 1/8" = 1'-0"

SIGNAGE CALCULATIONS

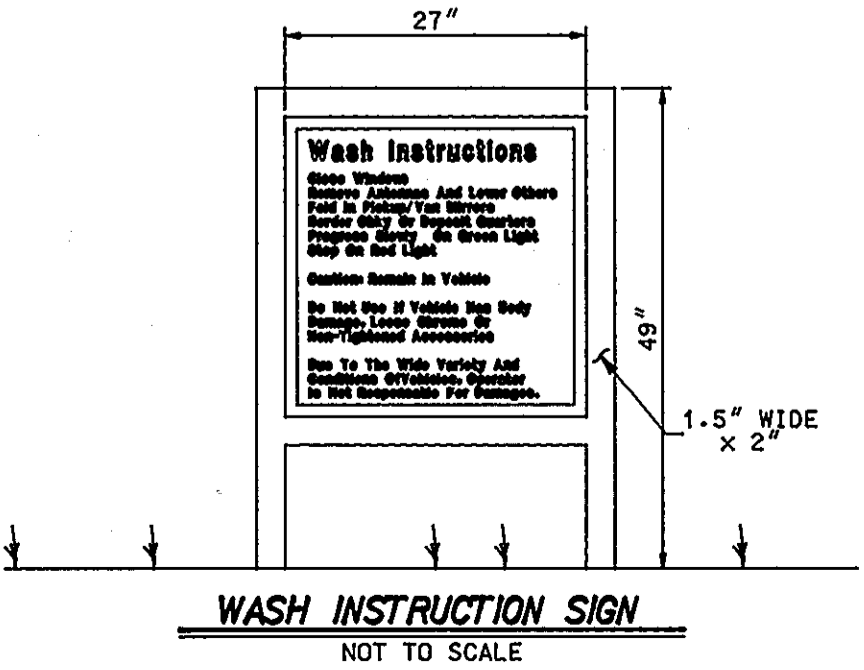
- TOTAL ALLOWABLE SQUARE FEET: 55'-0" X 2'-0" = 110 S.F.
- PROPOSED SIGNAGE:
  - MAJOR I.D. SIGN:
    - "EXXON" I.D.: 4'-2" X 2'-3" = 9.36 S.F.
    - EXXON PRICE SIGN: 4'-3 1/2" X 6'-1" = 26.10 S.F.
    - TOTAL AREA (EXCLUDING PRICE SIGN UNDER 32 S.F.) = 9.36 S.F.
  - CANOPY FASCIA SIGN: 6'-9" X 1'-6" = 10.13 S.F.
  - EXXON BUILDING SIGN: "EXXON" : 23'-4" X 2'-4" = 54.36 S.F.
- TOTAL SIGNAGE PROPOSED: 73.85 S.F.



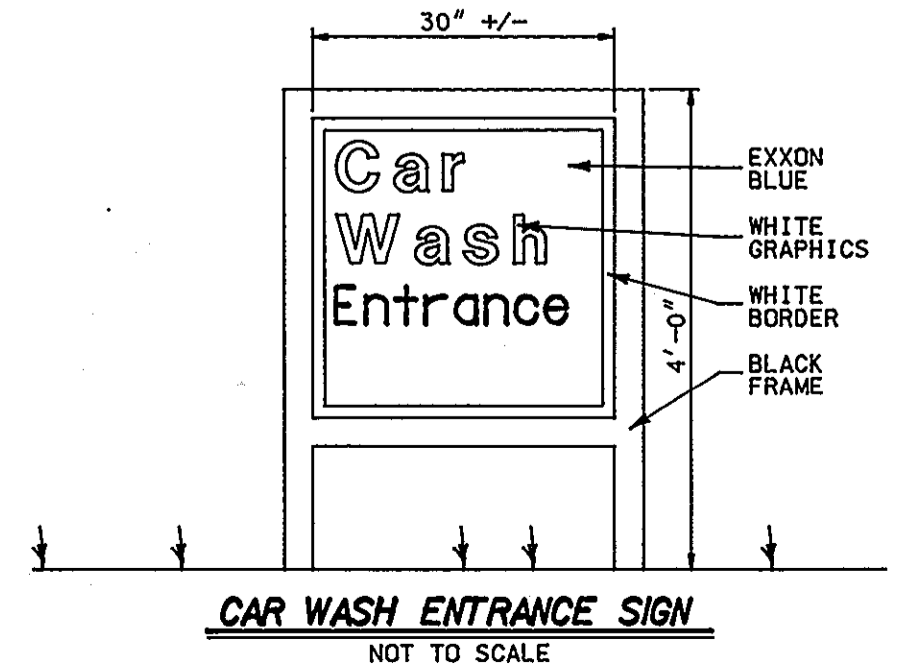
AIR/WATER SIGN  
NOT TO SCALE



DO NOT ENTER SIGN  
NOT TO SCALE



WASH INSTRUCTION SIGN  
NOT TO SCALE



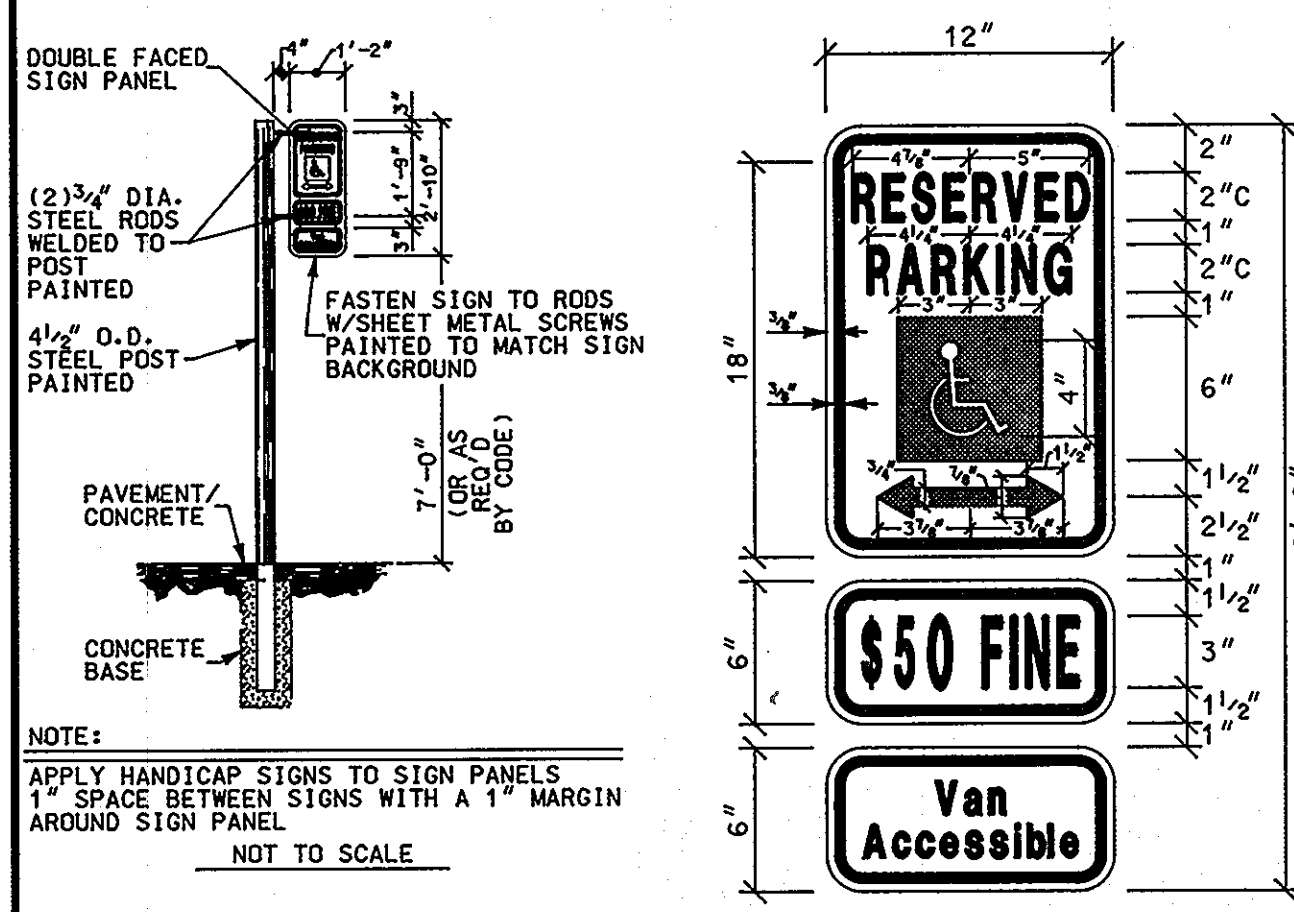
CAR WASH ENTRANCE SIGN  
NOT TO SCALE

PLANNING BOARD APPROVAL  
**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY  
DATE: 5-27-93

DATE: 6-9-93  
DAVID R. HALL  
PROFESSIONAL ENGR. NO. 10207

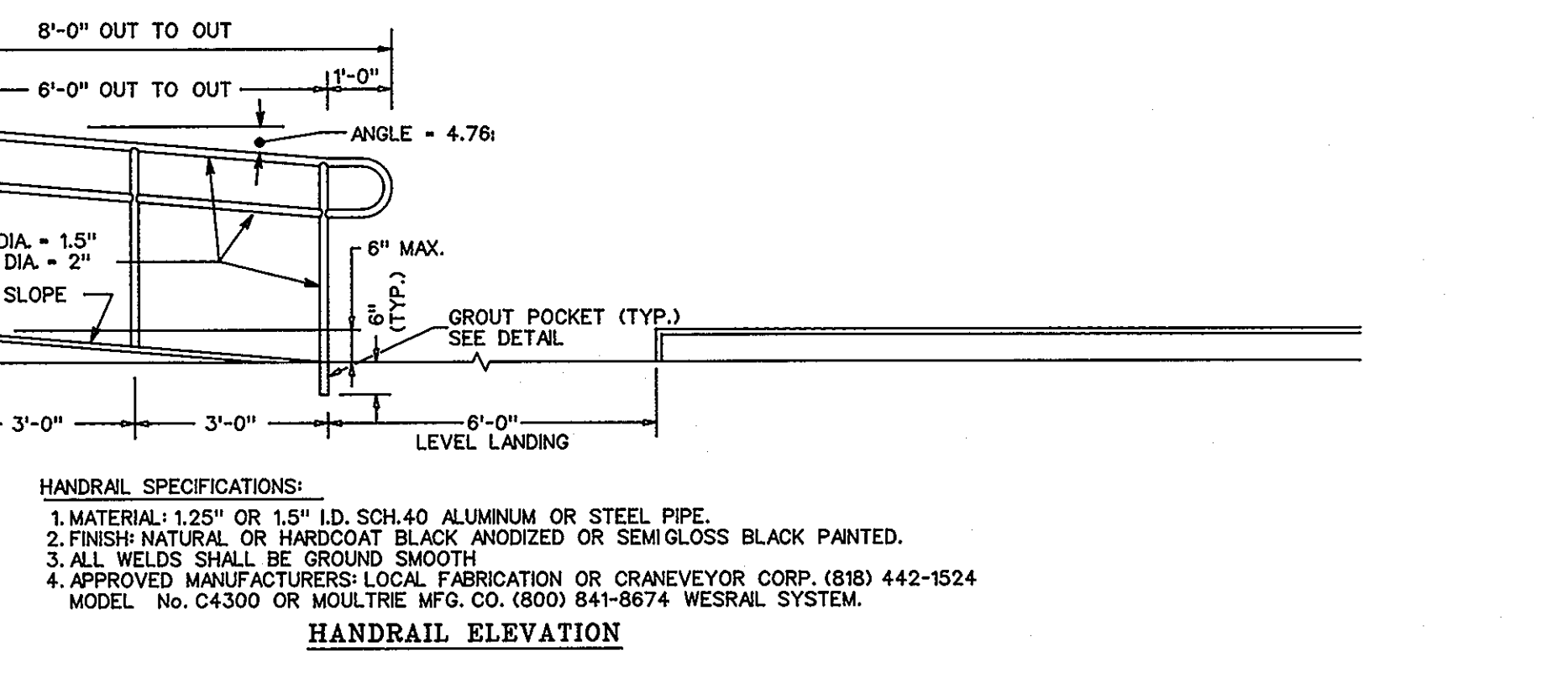
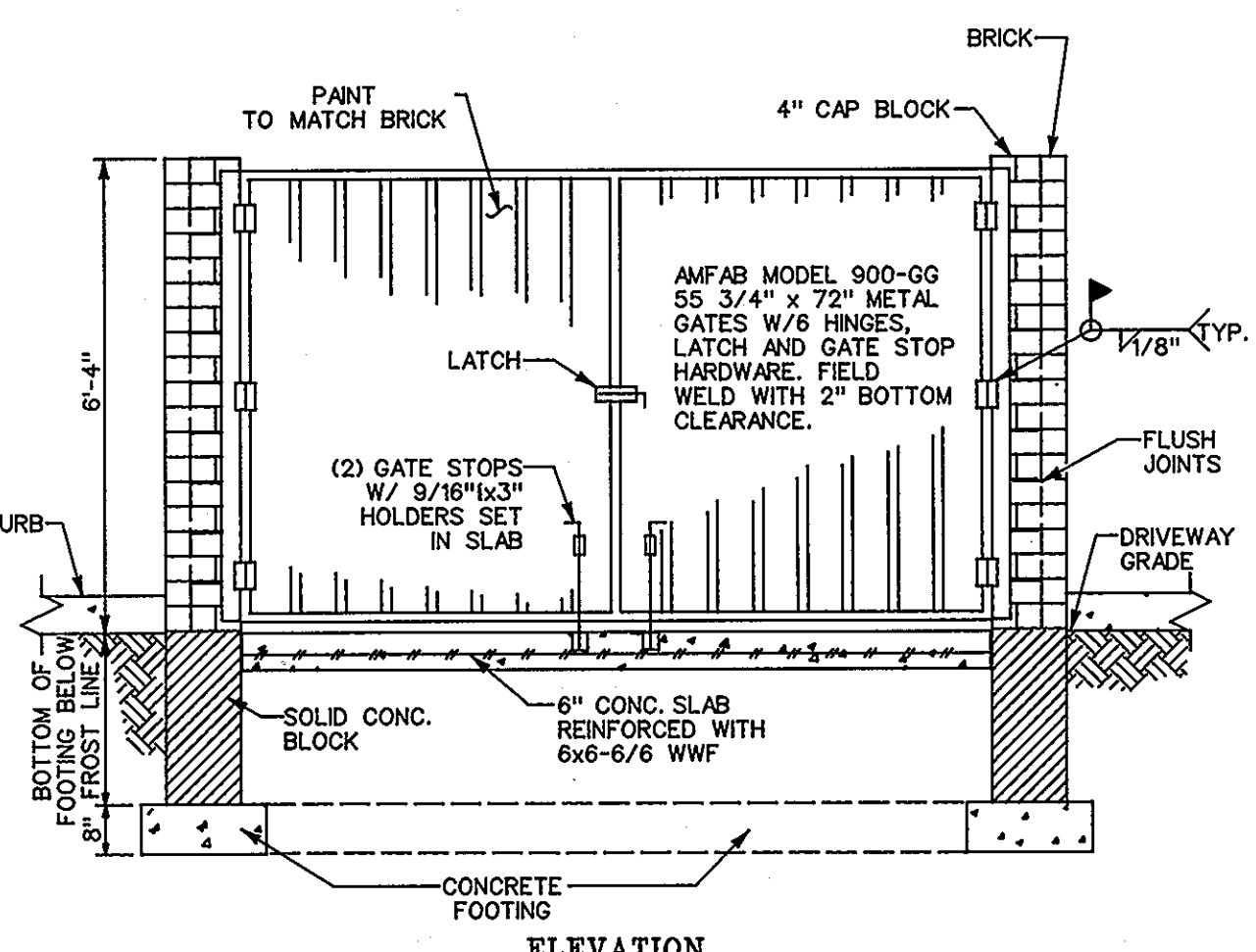
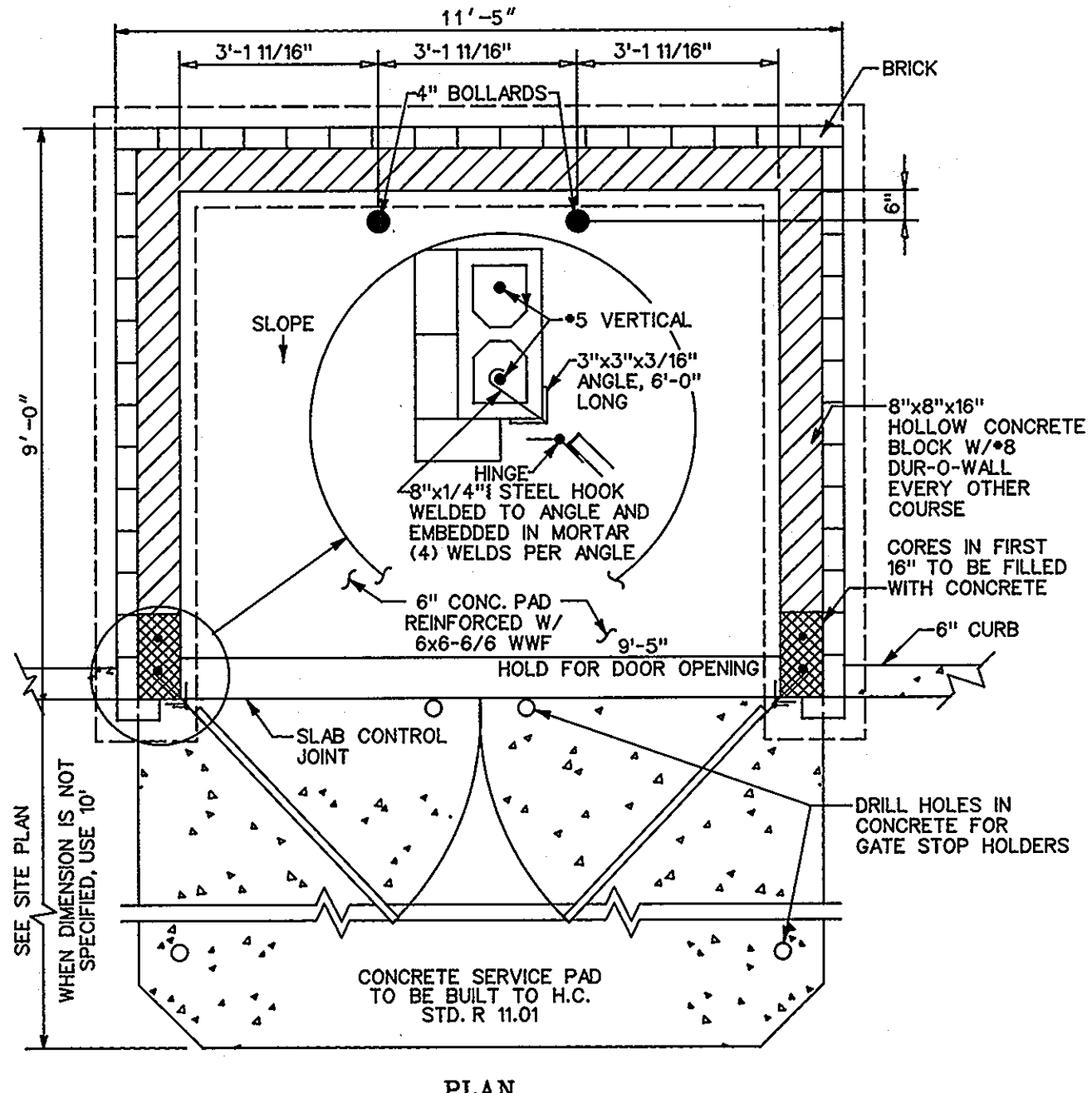
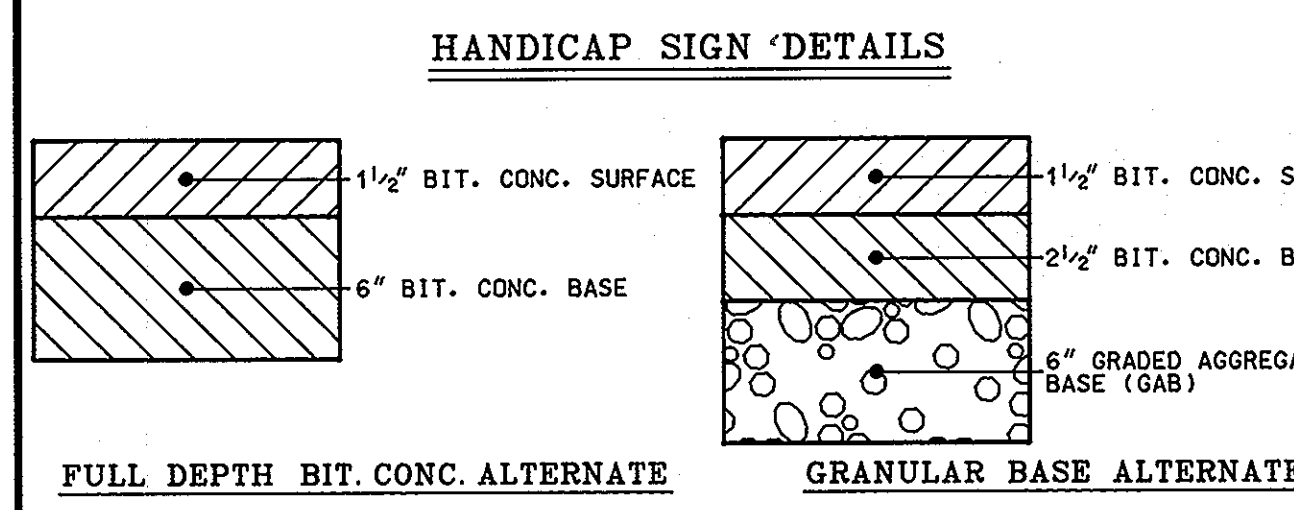
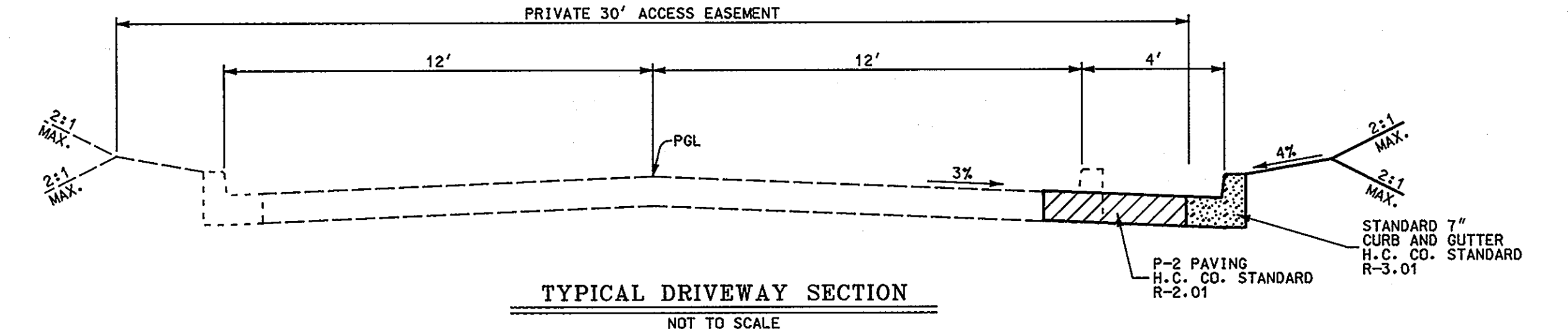
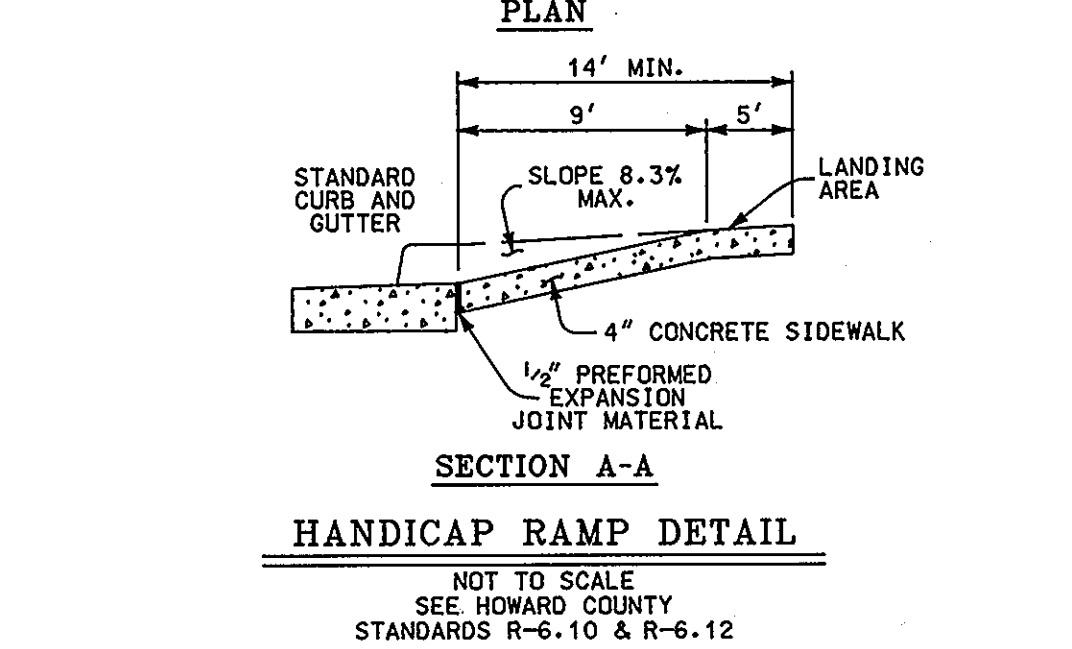
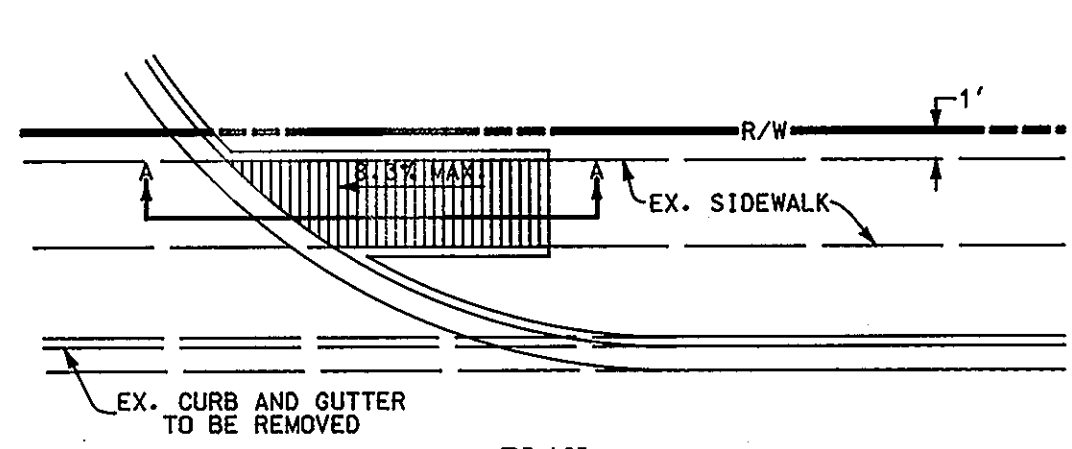
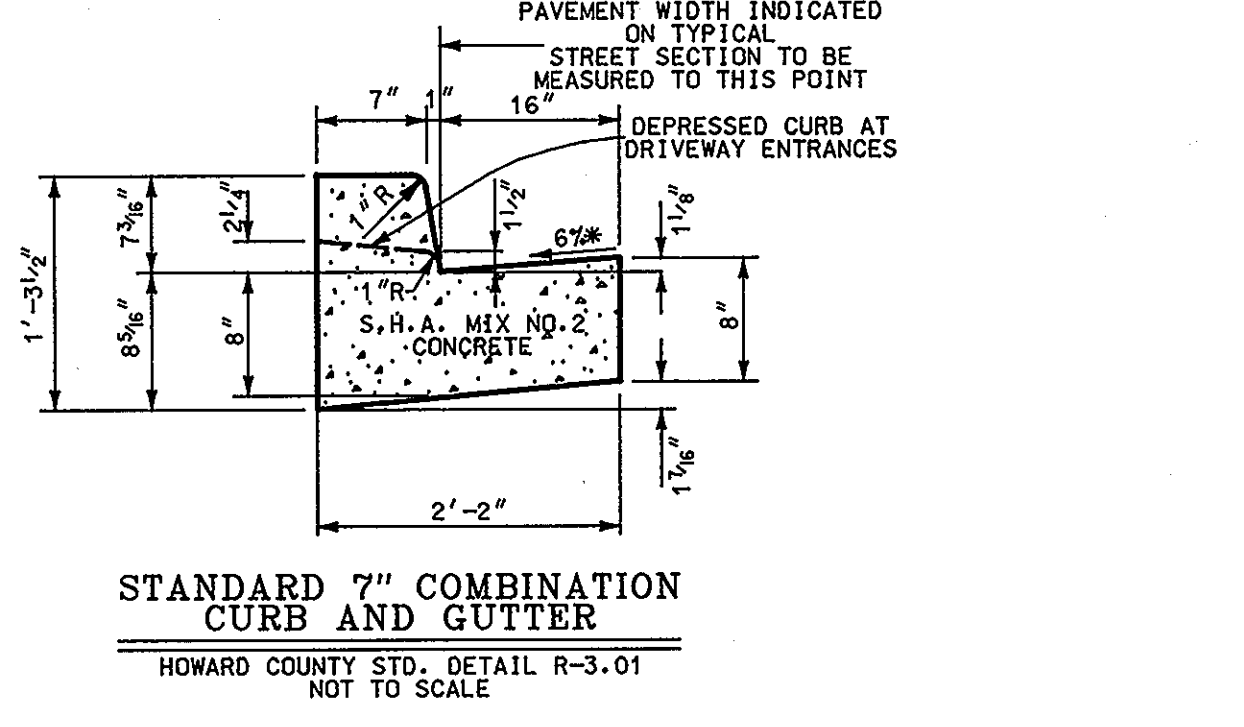
DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.		
<i>Richard J. Spang</i>	7/30/93	DATE
CHIEF-BUREAU OF ENGINEERING		
<i>Richard J. Spang</i>	8/2/93	DATE
DIRECTOR		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>Joseph A. Smith</i>	8/16/93	DATE
DIRECTOR		
<i>Richard Blount</i>	8/16/93	DATE
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Jocelyn Borker</i>	8-11-93	DATE
COUNTY HEALTH OFFICER		
OWNER:	THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193	
DEVELOPER:	<b>EXXON COMPANY, U.S.A.</b> 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. NEAL METZENDORF PHONE: (301)-513-7511	
<b>FREDERICK WARD ASSOCIATES INC.</b>	<b>ENGINEERS</b>	<b>ARCHITECTS</b>
5 SOUTH MAIN STREET ATTN: MR. JOHN MASCARO	BEL AIR, MARYLAND 21014	(410)878-2090
FWA JOB NUMBER 83084.00	FWA DRAWING FILE NAME P28LDC08	
AREA:	VILLAGE OF OWEN BROWN SECTION 2 AREA 2 TAX MAP 42 PARCEL 410 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:	FOR AN EXXON STATION AT PARCEL A-32 BUILDING AND SIGNAGE PLAN	
DESIGN BY:	T.F.W.	SCALE: AS SHOWN
DRAWN BY:	C.B.	DATE: 06/03/93
CHECKED BY:	T.F.W.	APPROVED:
PROJECT NO.:		DRAWING NUMBER
		08 OF 11



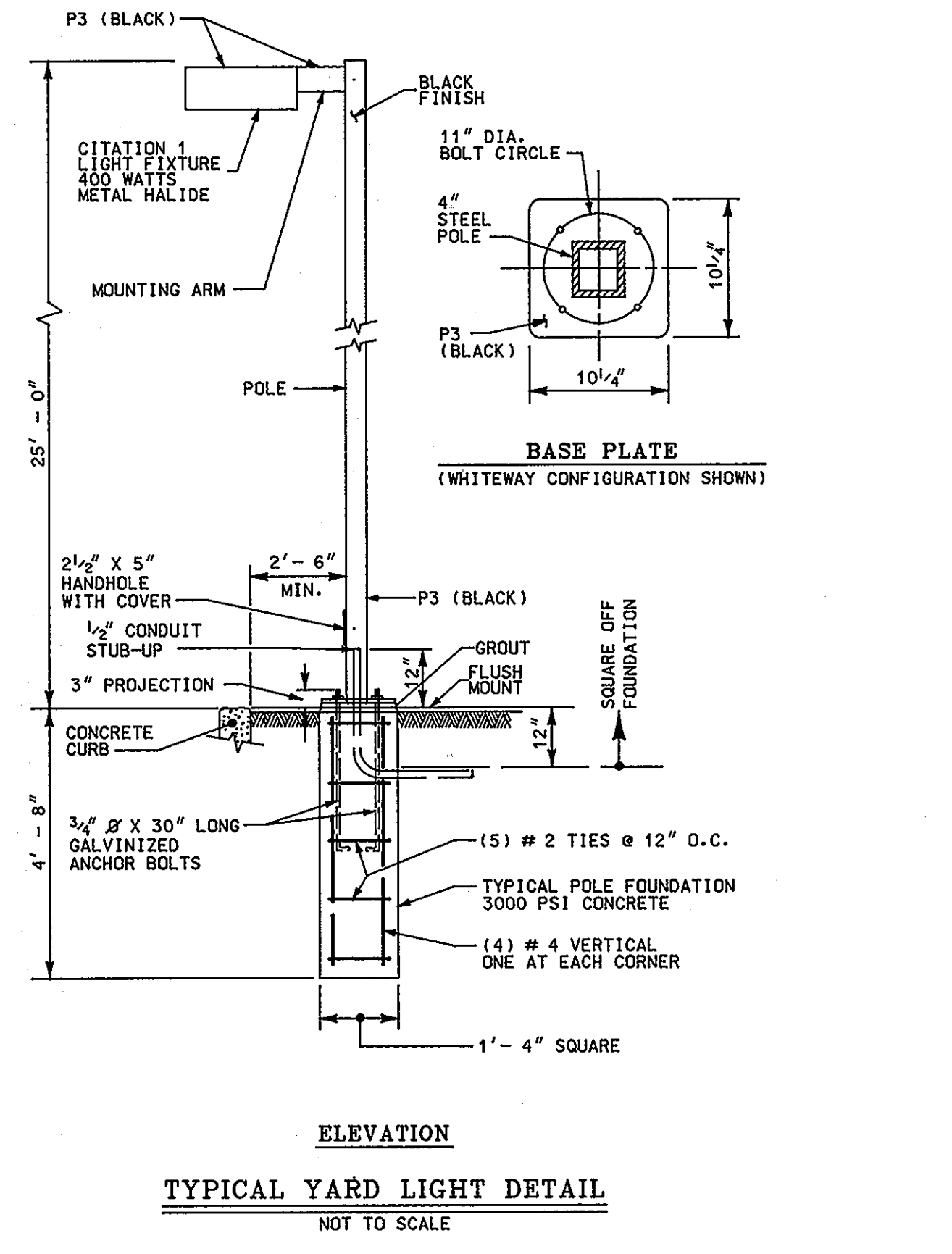
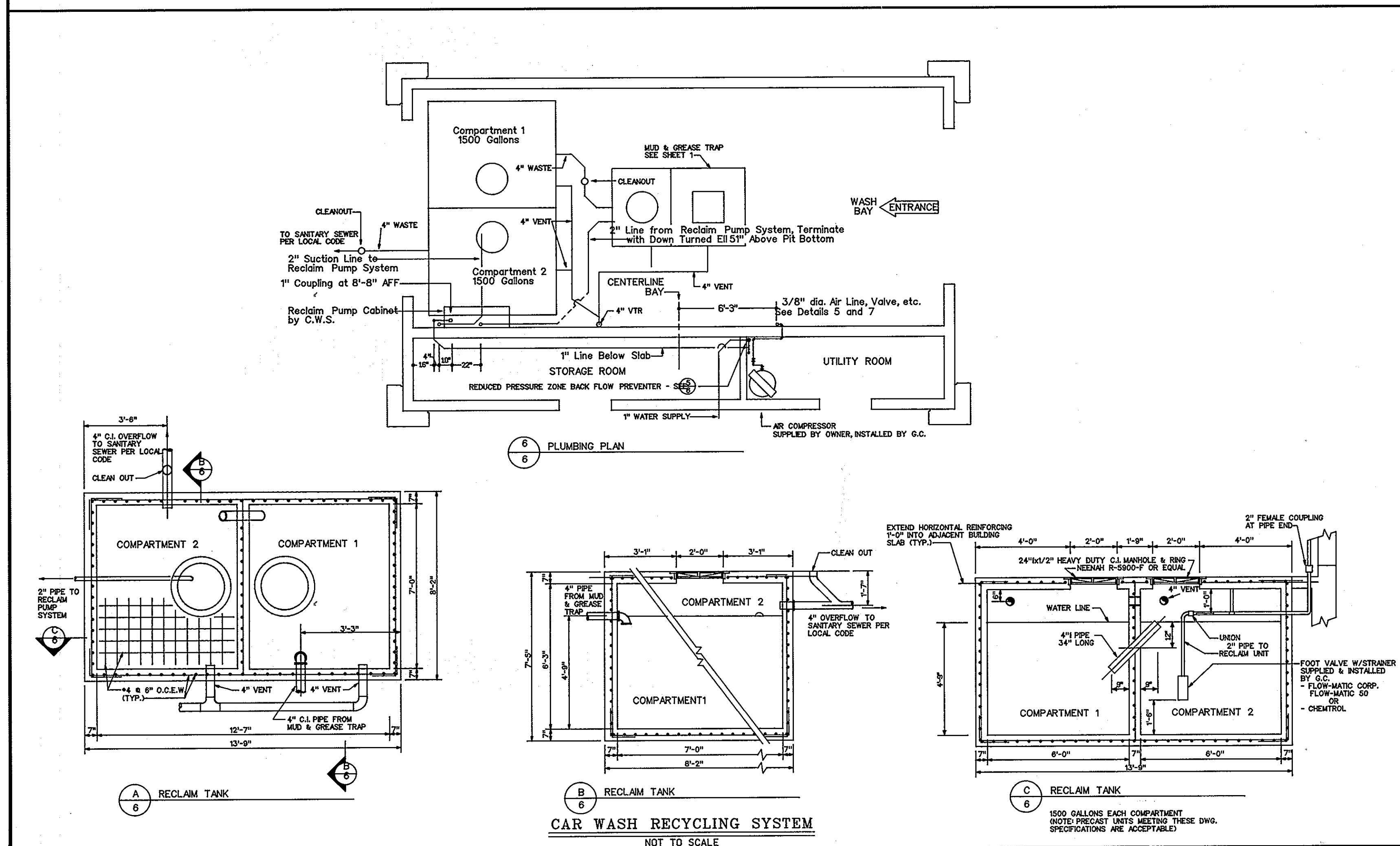


**COLORS:**  
 LEGEND AND BORDER - GREEN  
 WHITE SYMBOL ON BLUE BACKGROUND  
 BACKGROUND - WHITE

**NOTE:**  
 1.) ONE SIGN TO BE APPLIED TO METAL SIGN BOARD MOUNTED TO METAL POST.  
 2.) FREE STANDING SIGN 7'-0" ABOVE FINISHED GRADE.  
 3.) MOUNTED ON WALL OR STRUCTURE 6'-0" ABOVE GRADE.  
 SCALE: 1 1/2" = 1'-0"



**PAVING SECTIONS**  
 HOWARD COUNTY STD. DETAIL R-2.01  
 SECTION NUMBER P-2  
 NOT TO SCALE



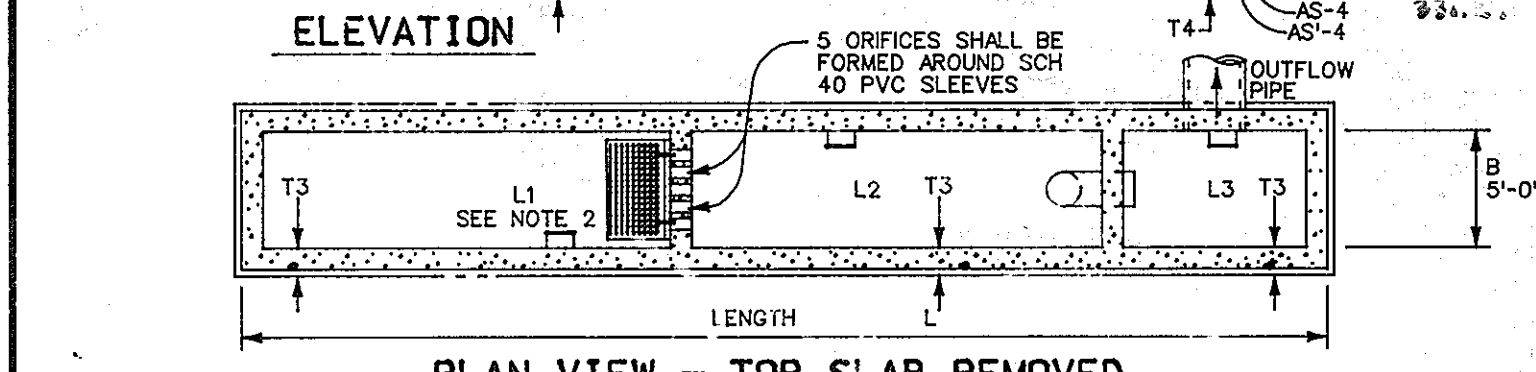
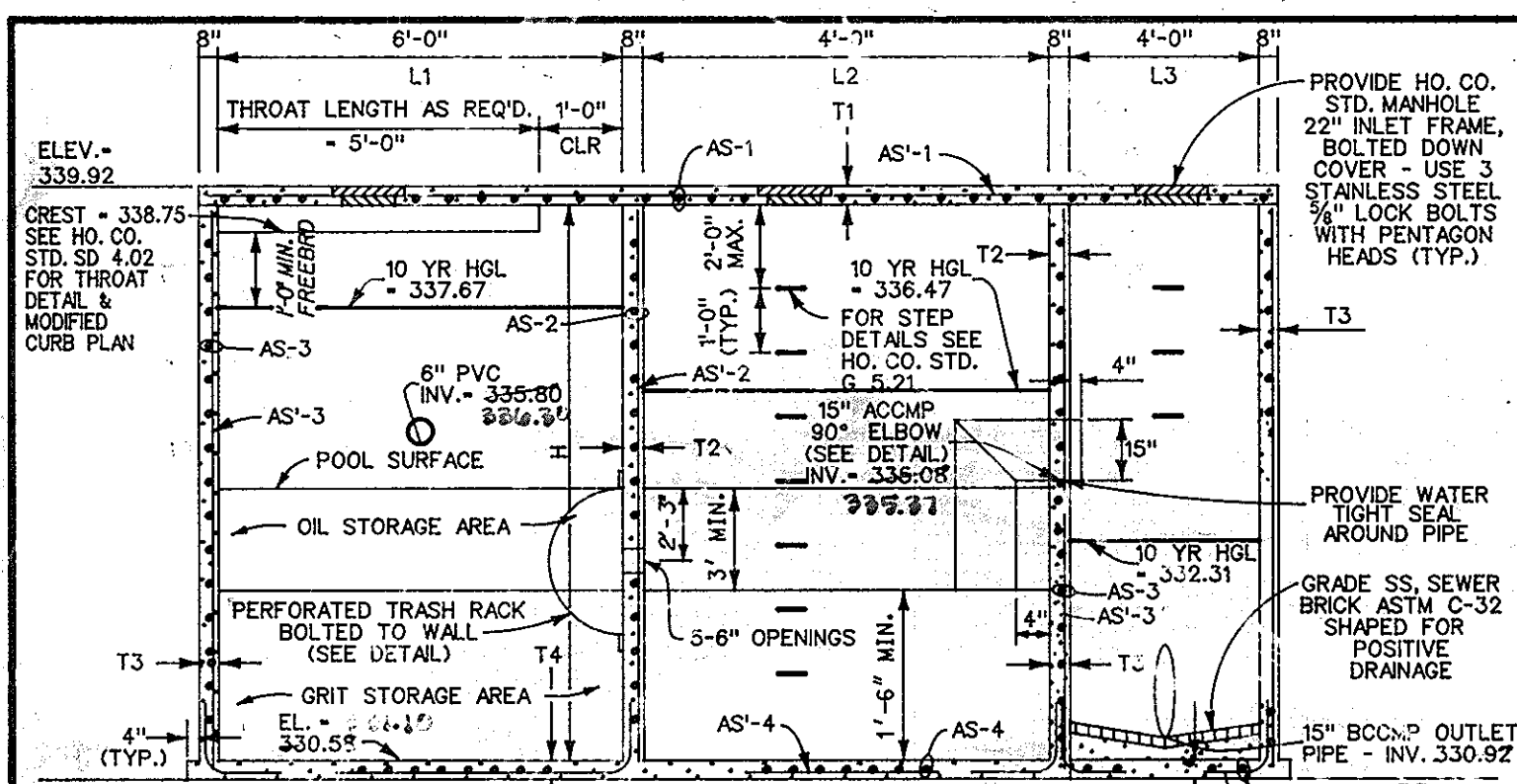
**PLANNING BOARD APPROVAL**

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
 DATE 5-27-93

**APPROVED**  
 DATE 6-9-93

**DAVID F. HALL**  
 PROFESSIONAL ENGR. NO. 10217

DATE	NUMBER	REVISION DESCRIPTION
7/30/93		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
8/2/93		APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
8/16/93		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
8-11-93		
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193		
DEVELOPER: EXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. NEAL METZENDORF PHONE: (301)-513-7511		
FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090 FMA JOB NUMBER S3084.00 FMA DRAWING FILE NAME P026109		
AREA: VILLAGE OF OWEN BROWN SECTION 2 AREA 2 TAX MAP 42 PARCEL 410 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: FOR AN EXXON STATION AT PARCEL A-32 SITE DETAILS PLAN		
DESIGN BY: J. M. M.	SCALE: 1"=20'	PROJECT NO.:
DRAWN BY: C. B.	DATE: 06/03/1993	DRAWING NUMBER
CHECKED BY: T. F. W.	APPROVED:	09 OF 11



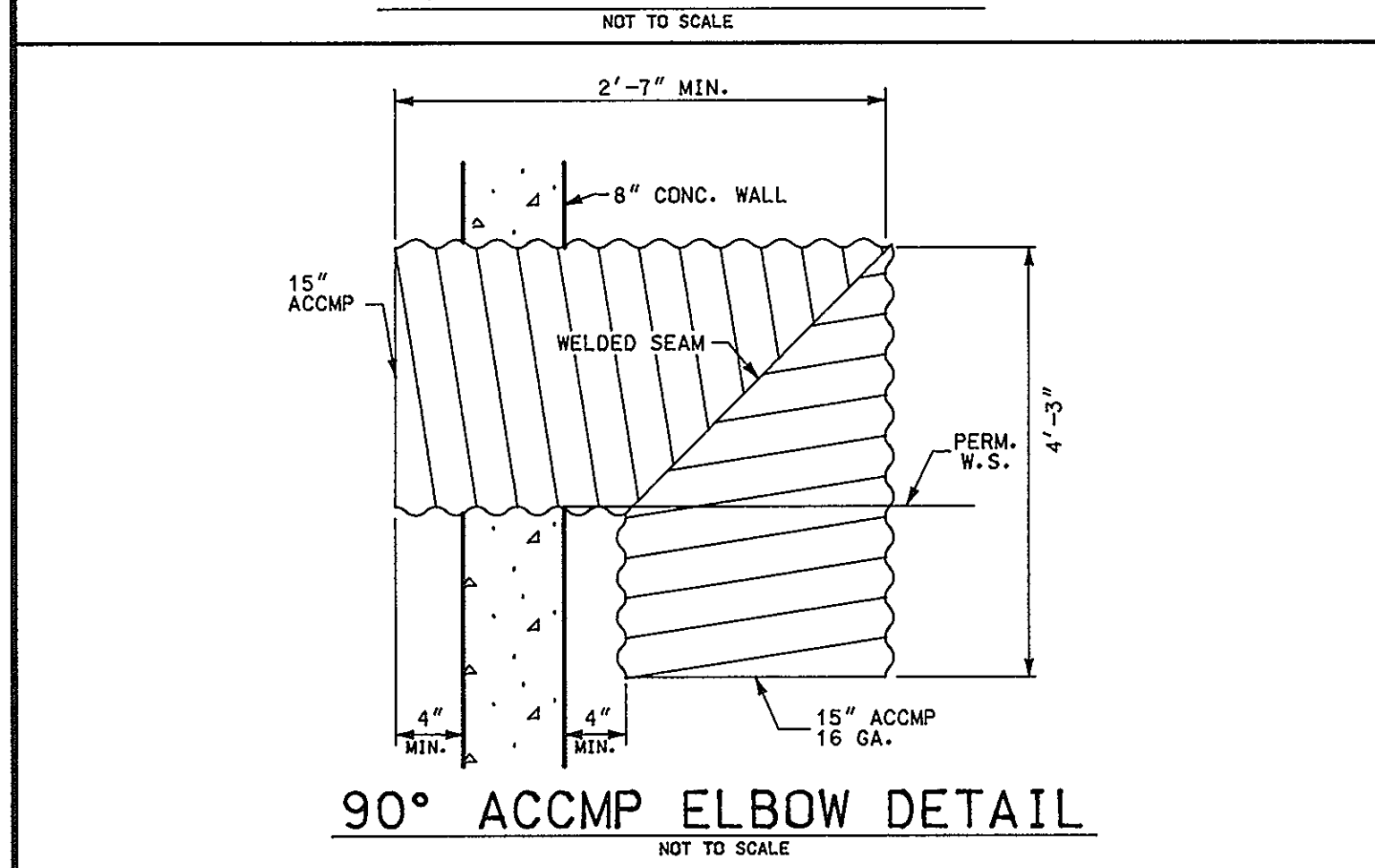
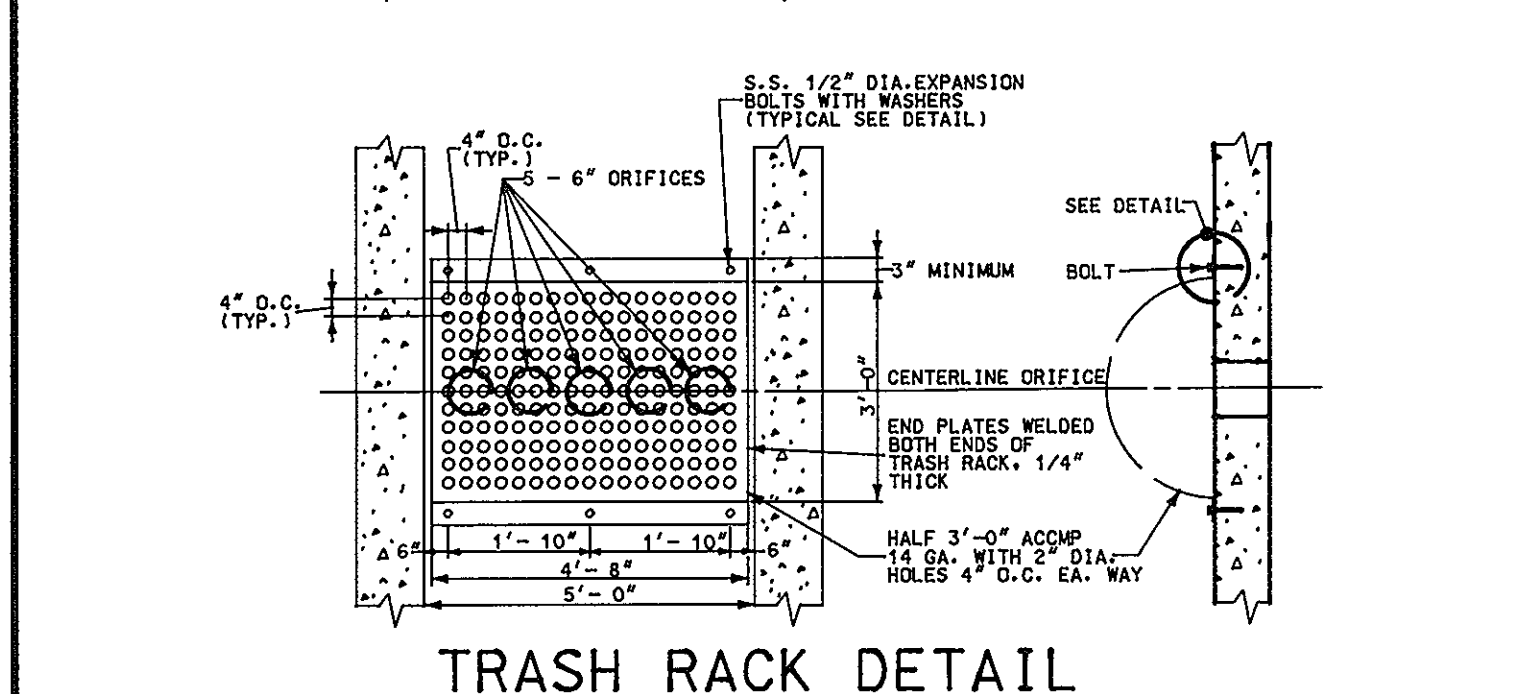
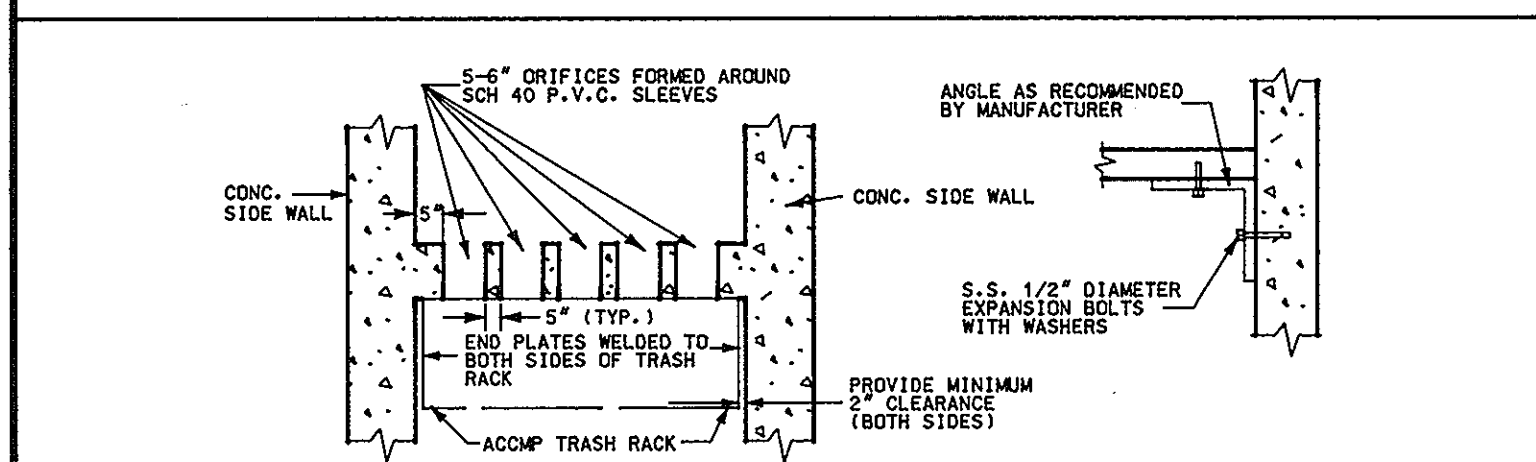
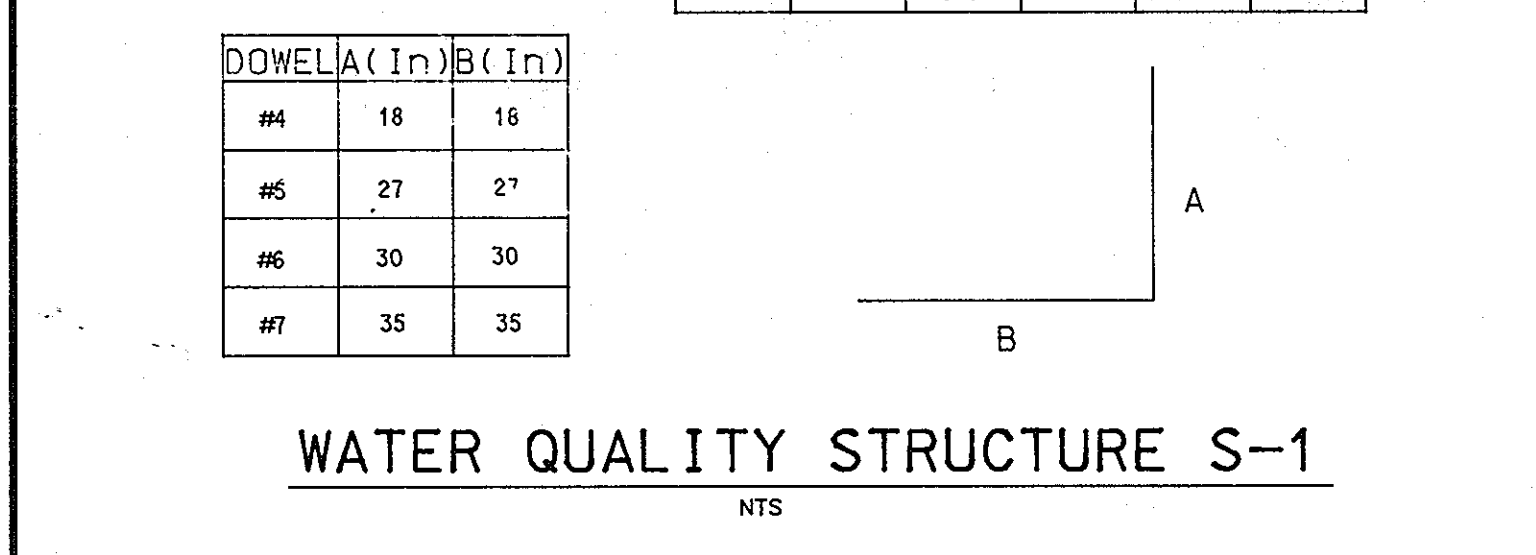
TOP SLAB		PARTITION WALL	
B FT.	H FT.	L FT.	T1 Inches
5	8.67	16.67	8

OUTER WALLS		BASE SLAB	
T3 Inches	AS-3	AS'-3	T4 Inches
8	#5 @ 12" O.C.	#5 @ 12" O.C.	8

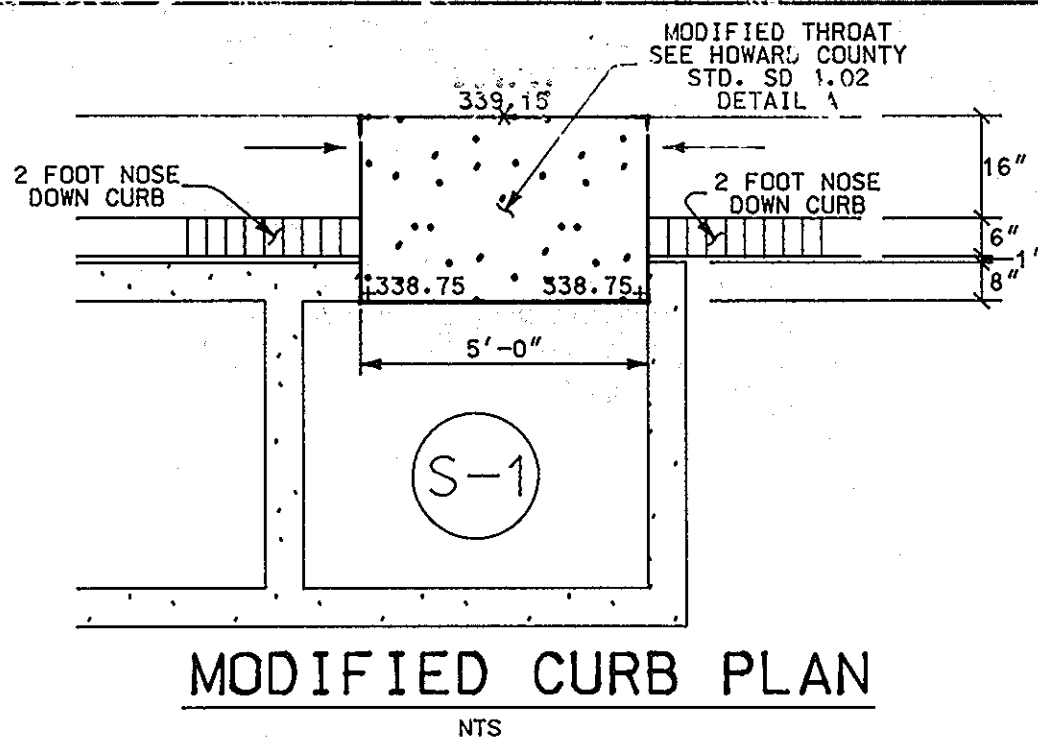
DOWEL (In) (B in)	
#4	18
#5	27
#6	30
#7	35



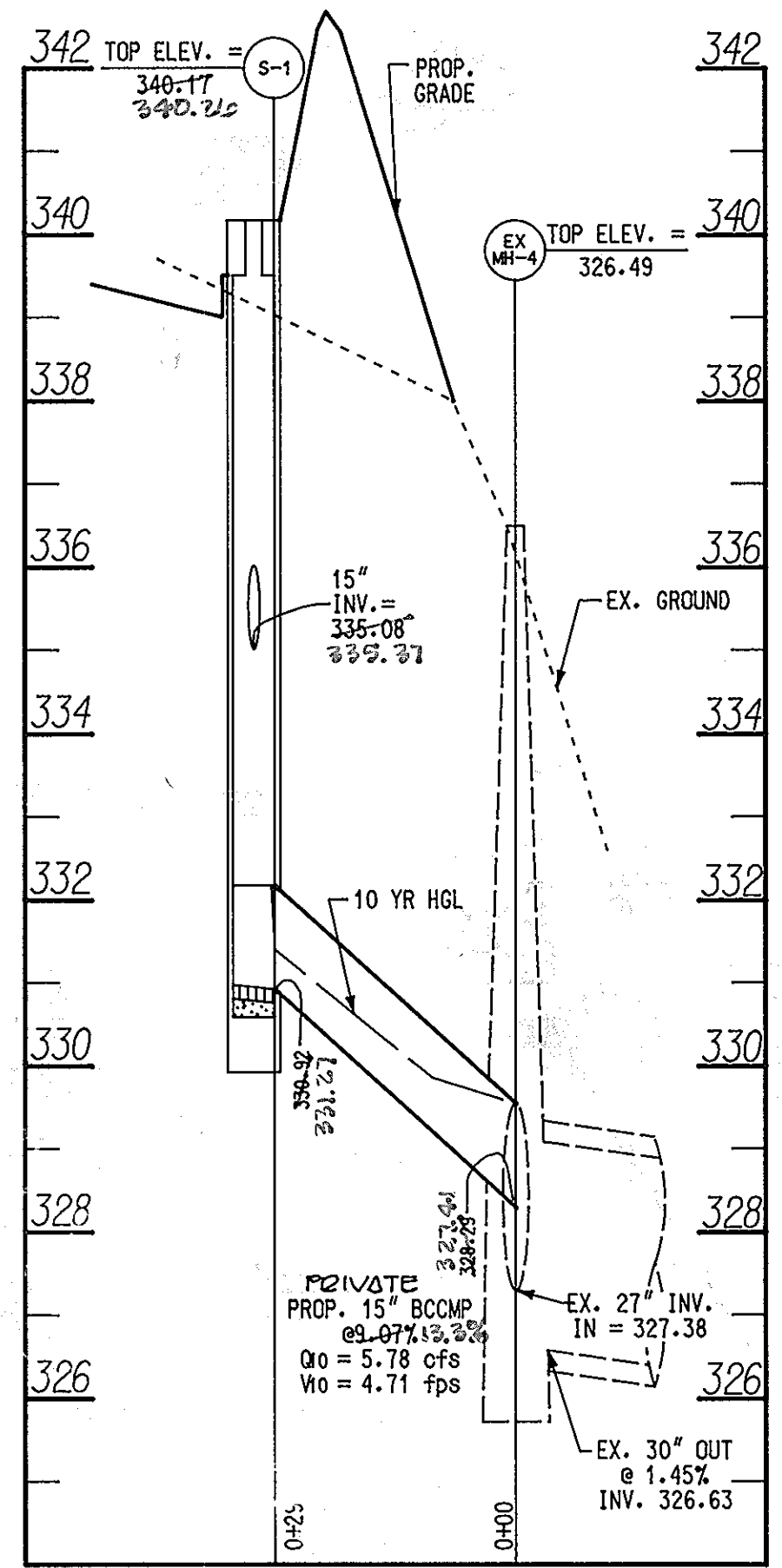
- ### REINFORCING NOTES
1. PROVIDE #5 DEFORMED GRADE 60 REINFORCING BARS @ 12" O.C. EACH WAY, CENTERED IN ALL WALLS AND TOP AND BOTTOM SLABS.
  2. PROVIDE ADDITIONAL #5 DIAGONAL BARS AROUND EACH OPENING.
  3. USE POURED-IN PLACE CONCRETE FOR THE ENTIRE STRUCTURE IN ACCORDANCE WITH A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, A.C.I. STANDARD 318-83 AND ALL SUPPLIERS, UNLESS OTHERWISE NOTED.
  4. F'C = 3,500 PSI AT 28 DAYS.
  5. IF PRECAST OIL-BRIT SEPARATORS ARE USED, THE SHOP DRAWINGS MUST BE APPROVED BY THE HOWARD COUNTY DPW.

- ### SWM MAINTENANCE SCHEDULE
1. MINIMIZE SURFACE EROSION FROM PERVIOUS SURFACES AT ALL TIMES; MAINTAIN GRASS, SOY, AND/OR MULCH COVERAGE UPON LANDSCAPINGS.
  2. REMOVE DEBRIS ON TOP OF SWM INLETS AFTER EVERY RAINFALL.
  3. AT INTERVALS NOT EXCEEDING 6 MONTHS, REMOVE ALL GREASE AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLET AND OUTLET STRUCTURES.
  4. ALL MAINTENANCE SHALL BE PERFORMED BY THE OWNER OR THE OWNER'S REPRESENTATIVE AT THE OWNER'S EXPENSE.

- ### MAINTENANCE NOTES
1. WATER QUALITY STRUCTURES WILL REQUIRE PERIODICAL CLEANING. OWNERS OF THESE FACILITIES WILL HAVE TO CLEAN THEM AS NEEDED OR ON A FREQUENCY THAT THE COUNTY DETERMINES IS APPROPRIATE. OWNERS OF WATER QUALITY STRUCTURES WILL BE NOTIFIED BY THE COUNTY OF THE FREQUENCY OF MAINTENANCE.
  2. MAINTENANCE OF THESE FACILITIES WILL CONSIST OF CLEANING OUT THE SEPARATOR AND DISPOSAL OF THE WASTE AND THE REPAIR OF THE FACILITY AS NEEDED. PERIODIC INSPECTIONS OF THESE FACILITIES WILL BE MADE BY THE COUNTY STORMWATER MANAGEMENT GROUP.
  3. THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
    - A. ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
    - B. THE SOLID MATERIAL SHALL BE LANDFILLED IN AN APPROVED SANITARY LANDFILL.
  4. THE INLET PIPES, TRASH RACKS, GRATES, AND STRUCTURAL PARTS SHALL BE REPAIRED AS NEEDED.



- ### OPERATION AND MAINTENANCE SCHEDULE FOR LANDSCAPE INFILTRATION (M-3), MICRO-BIORETENTION (M-6), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), AND ENHANCED FILTERS (M-9)
1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUME II, TABLE A.4.1 AND 2.
  2. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERING BROWN TREATMENT. REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL. TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
  3. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
  4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



STORM DRAIN PROFILE  
SCALE: HORIZONTAL - 1" = 20'  
VERTICAL - 1" = 2'

### STRUCTURE SCHEDULE

No.	DESCRIPTION	INV. IN	INV. OUT	TOP ELEV.
S-1	WATER QUALITY STRUCTURE	339.25	339.92	340.20
I-1	COG OPENING (INLET (MD 374.68))	-	-	340.72
I-2	YARD INLET	334.95	334.20	339.12

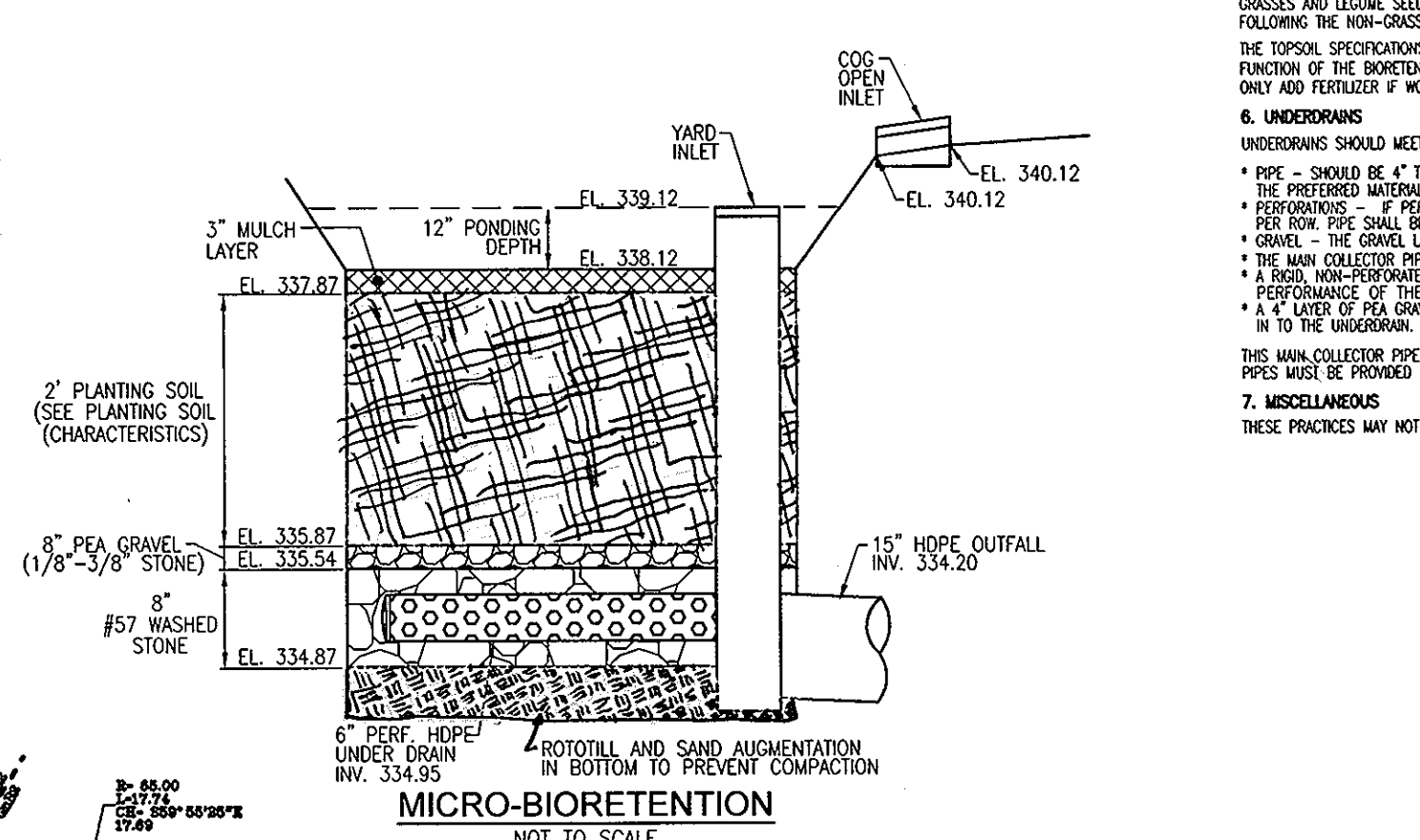
### PIPE SCHEDULE

SIZE	DESCRIPTION	LENGTH
15"	BCMP 2 2/3" X 1/2" HELICAL CORRUGATION 16 GA.	29 L.F.
6"	PERFORATED HDPE	27 L.F.
15"	HDPE	40 L.F.

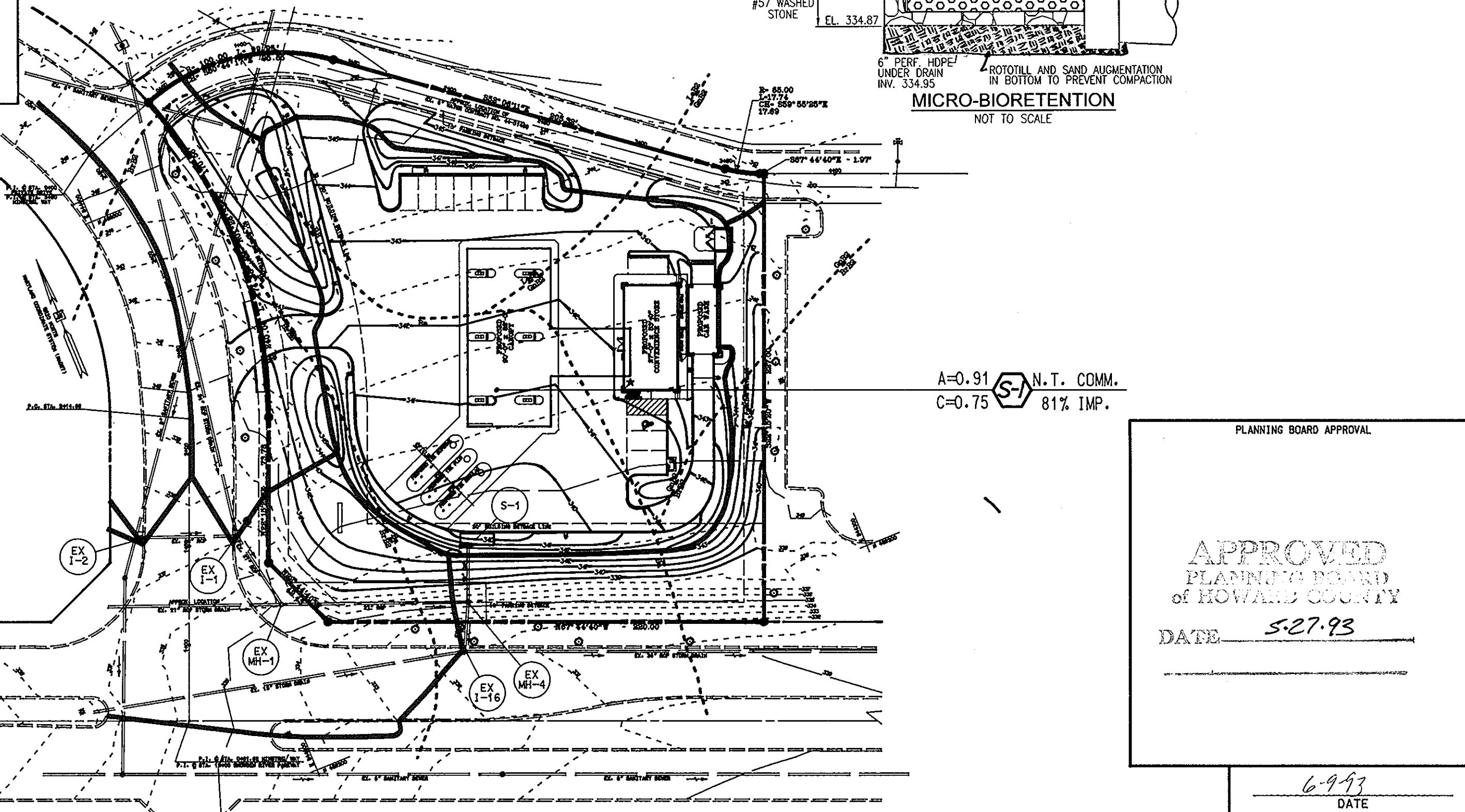
APPENDIX B.A. CONSTRUCTION SPECIFICATIONS FOR ENVIRONMENTAL SITE DESIGN PRACTICES

### Table B.A.1 Materials Specifications for Micro-Bioretention, Rain Gardens & Landscape Infiltration

Material	Specification	Notes
Planting soil	See Appendix A, Table A.4	Planting soil is site-specific
Plastic mulch	LDPE or HDPE, 4 mil thick, 10' x 25' sheets	LDPE soil types loamy sand or sandy loam; clay content < 5%
Organic mulch	Min. 10% dry weight (ASTM D 2224)	aged 6 months, minimum no pine or wood chips
Pre-galv'd drainage pipe	See Appendix A, Table A.4	NO. 8 OR NO. 9 (18" TO 30")
Certain drain	environmental stone: washed	stone: 2" to 5"
Concrete	See Appendix A, Table A.4	FE Type 1 minimum
Gravel (underdrain and infiltration base)	See Appendix A, Table A.4	NO. 20 OR NO. 24 AGGREGATE (ASTM D 2085)
Underdrain piping	See Appendix A, Table A.4	1/2" or 3/4" rigid schedule 40 PVC or SDR35
Poured in place concrete (if required)	See Appendix A, Table A.4	NSHA Min No. 3, Fc = 3000 psi @ 28 days, normal weight, compressive strength in accordance with most ASTM A 615-00
Sand	See Appendix A, Table A.4	0/20 to 0/40"



MICRO-BIORETENTION  
NOT TO SCALE



KEY  
 - - - DRAINAGE BOUNDARY  
 - - - SOIL BOUNDARY  
 - - - EXISTING CONTOUR  
 - - - PROPOSED CONTOUR

DRAINAGE AREA MAP  
SCALE: 1" = 50'

FOR REVISION 1

APPROVED PLANNING BOARD OF HOWARD COUNTY  
DATE: 5-27-93

PLANNING BOARD APPROVAL

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT.

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: EXXON COMPANY, U.S.A.  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. NEAL METZENDORF  
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090  
ATTN: MR. JOHN MASCARO  
PWA JOB NUMBER: 93064.00 PWA DRAWING FILE NAME: P0210

AREA: VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2  
TAX MAP 42 PARCEL 410  
6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

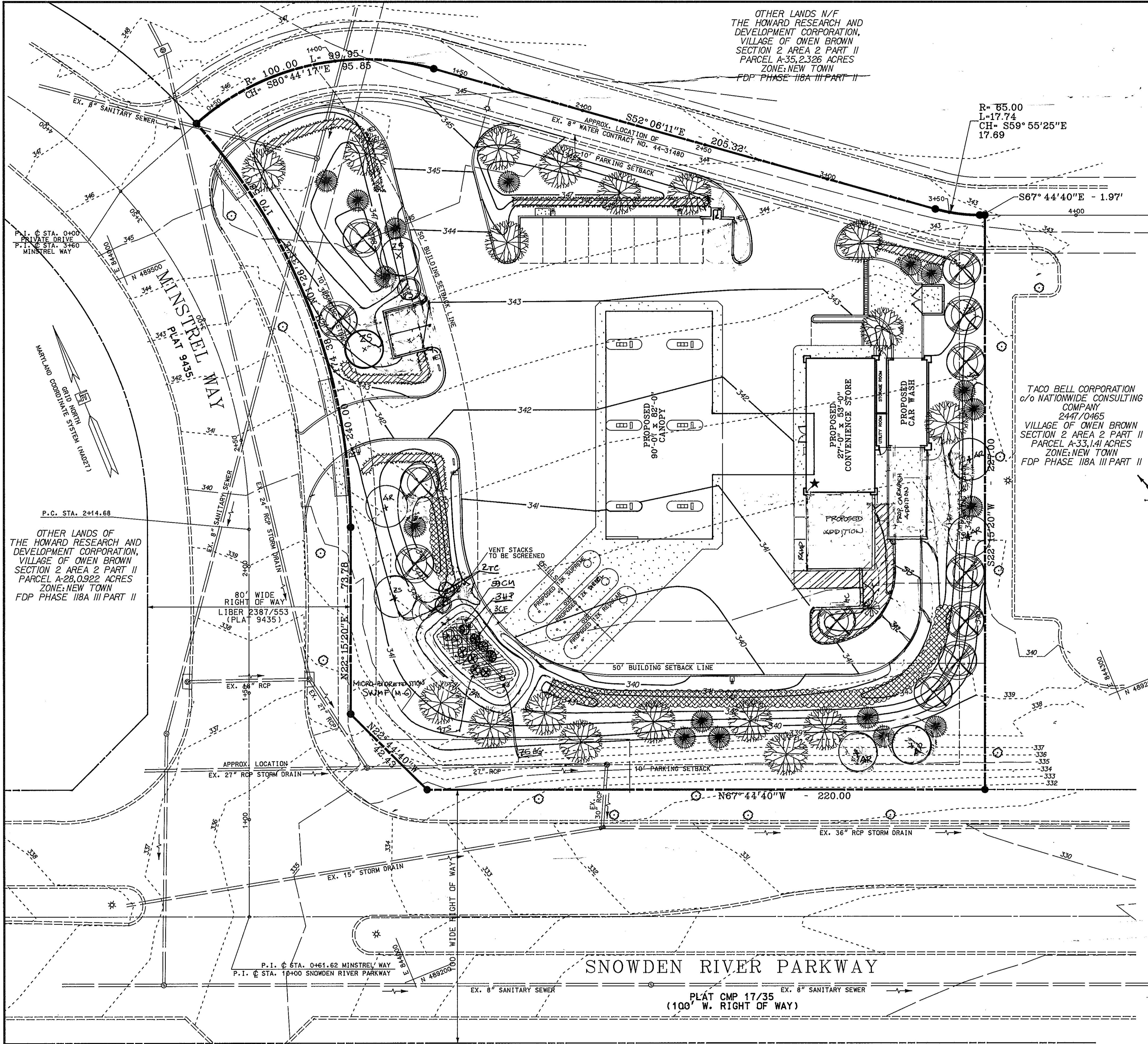
TITLE: FOR AN EXXON STATION AT PARCEL A-32 SITE DETAILS PLAN

DESIGN BY: J.M.M. SCALE: AS SHOWN PROJECT NO.:  
DRAWN BY: T.C.M.S. DATE: 06/24/1993 DRAWING NUMBER:  
CHECKED BY: T.F.W. APPROVED: DATE: 10 OF 11

DAVID R. HALL  
PROFESSIONAL ENGR. NO. 10017

ROBERT H. VOZEL  
PROFESSIONAL ENGINEER

OTHER LANDS N/F  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION,  
VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2 PART II  
PARCEL A-35, 2.326 ACRES  
ZONE: NEW TOWN  
FDP PHASE 118A III PART II

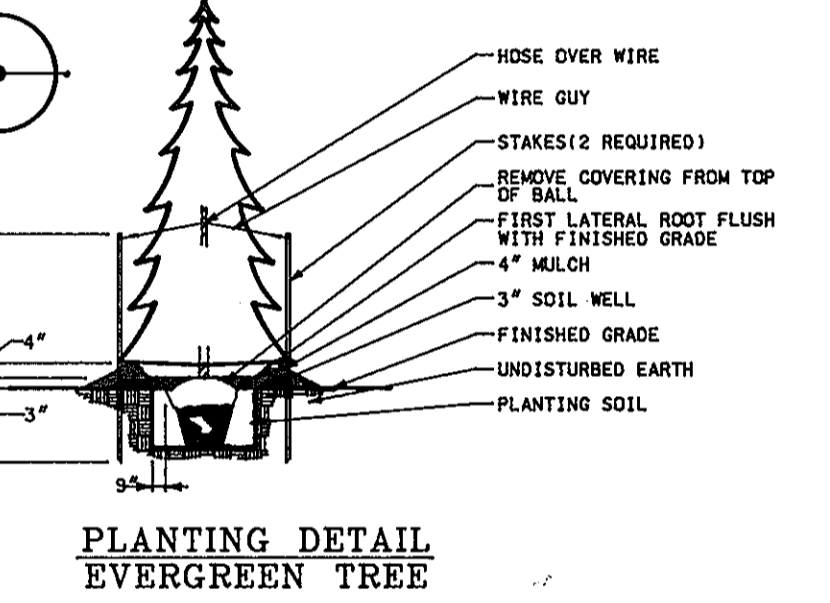
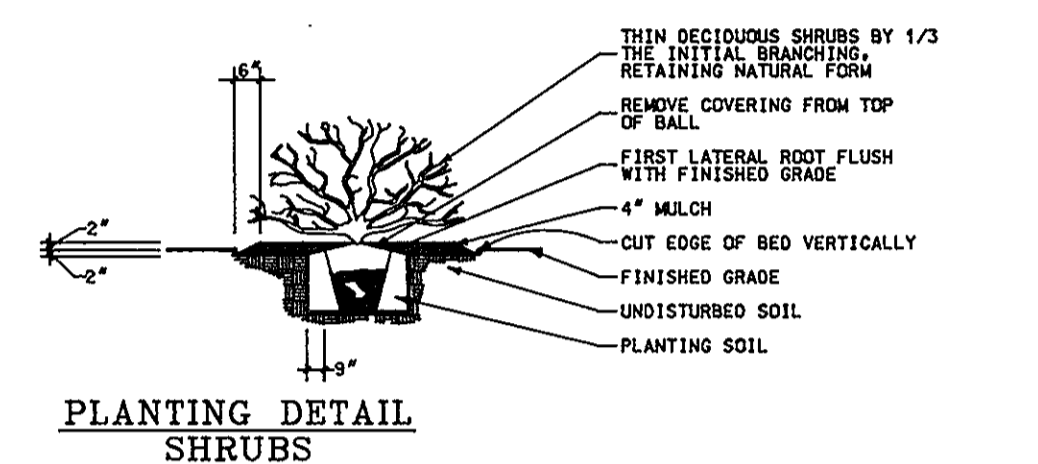
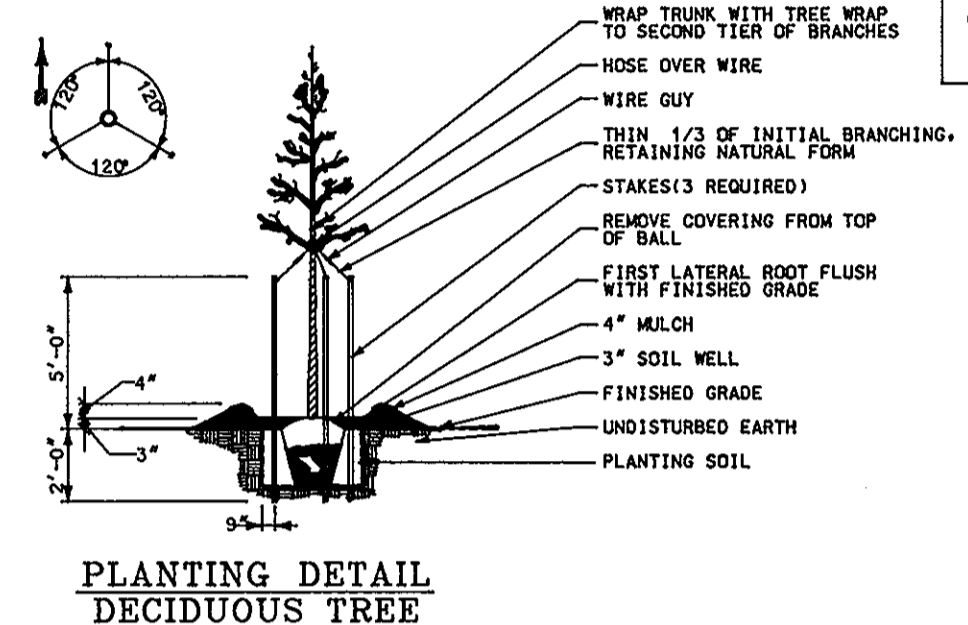


BIORETENTION PLANTING SCHEDULE

NO.	QTY	BIOTENTION PLANTING SCHEDULE	SIZE	STEMMS
25	15	REDWOOD	1 GAL	18" O.C.
23	23	FRUITFUL BLUE BERRY	1 GAL	30" O.C.
18	18	FRUITFUL BLUE BERRY	1 GAL	30" O.C.
3	3	FRUITFUL BLUE BERRY	1 GAL	30" O.C.
95	95	FRUITFUL BLUE BERRY	1 GAL	30" O.C.
68	68	FRUITFUL BLUE BERRY	1 GAL	30" O.C.
72	72	FRUITFUL BLUE BERRY	1 GAL	30" O.C.

LANDSCAPE PLANTINGS

SYMBOL	QUANTITY	BOTANICAL/Common NAME	SIZE
⊗	15	ZELKOVA SERRATA (ZELKOVA)	2 1/2" - 3" CAL. 8' & B 12' - 14' HT.
⊗	23	ACER RUBRUM 'RED SUNSET' (RED SUNSET RED MAPLE)	2 1/2" - 3" CAL. 8' & B 12' - 14' HT.
⊗	18	PINUS STROBUS (EASTERN WHITE PINE)	B & B 2' - 2 1/2" HT. 6' - 8' MIN.
⊗	3	TSUGA CANADENSIS (CANADIAN HEMLOCK)	B & B 2' - 2 1/2" HT. 6' - 8' MIN.
⊗	95	TAXUS X MEDIA 'HATFIELD' (HATFIELD YEW)	24" - 30" HT 30" O.C.
⊗	68	EUNYMIUS ALATUS 'COMPACTUS' (DWARF BURNING BUSH)	B & B 2' - 2 1/2" HT. 4' O.C.
⊗	72	JUNIPERUS CHINENSIS SARGENTII 'GLAUCA' (BLUE SARGENT JUNIPER)	18" 30" O.C.



BIORETENTION PLANTING REQUIREMENTS

MBR	AREA	STEMS REQUIRED	STEMS PROVIDED
SWMP#1	429 SF	10	10

BIORETENTION AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (0.229 STEMS PER SQUARE FOOT).

SCHEDULE D: STORMWATER MANAGEMENT AREA LANDSCAPING

LINEAR FEET OF PERIMETER	92 LF
CREDIT FOR EXISTING VEGETATION (NO, YES AND LINEAR FEET)	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	YES, 100%
NUMBER OF TREES REQUIRED (0 BUFFER) 0 SHADE TREES 0 EVERGREEN TREES	0
NUMBER OF TREES PROVIDED 0 SHADE TREES 0 EVERGREEN TREES	SEE BIORETENTION PLANT LIST*

\*SURETY FOR BIORETENTION PROVIDED IN THE BIDD COST ESTIMATE

DATE	NUMBER	REVISION DESCRIPTION
08/23/03	1	REVISE PLAN TO ADD CARWASH, CONVENIENCE STORE & SWMP

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*Richard S. Brown* 7/30/03  
CHIEF-BUREAU OF ENGINEERING (C/104) DATE

*Richard S. Brown* 8/2/03  
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Richard S. Brown* 8/16/03  
DIRECTOR DATE

*Richard S. Brown* 8/16/03  
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT.

*James B. Allen* 8-11-03  
COUNTY HEALTH OFFICER DATE

PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE: 5-27-03

FOR REVISION 1:

STATE OF MARYLAND  
PROFESSIONAL ENGINEER

*Robert H. Vogel* 06193 10/4/03  
DATE

DATE: 6-9-03

STATE OF MARYLAND  
PROFESSIONAL ENGINEER

*David R. Hall* 10413  
DATE

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: EXXON COMPANY, U.S.A.  
6301 IVY LANE  
SUITE 700  
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ATTN: MR. NEAL METZENDORF  
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5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)970-2090  
FWA JOB NUMBER 03084.00 FWA DRAWING FILE NAME PLAND11

AREA: VILLAGE OF OWEN BROWN  
SECTION 2 AREA 2  
TAX MAP 42 PARCEL 410  
6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION  
AT PARCEL A-32  
LANDSCAPE PLAN

DESIGN BY: J. M. M. SCALE: 1"=20' PROJECT NO.:  
DRAWN BY: C. B. DATE: 07/08/1993 DRAWING NUMBER  
CHECKED BY: T. F. W. APPROVED: 11 OF 11