

**CONSTRUCTION NOTES**

**GENERAL NOTES**

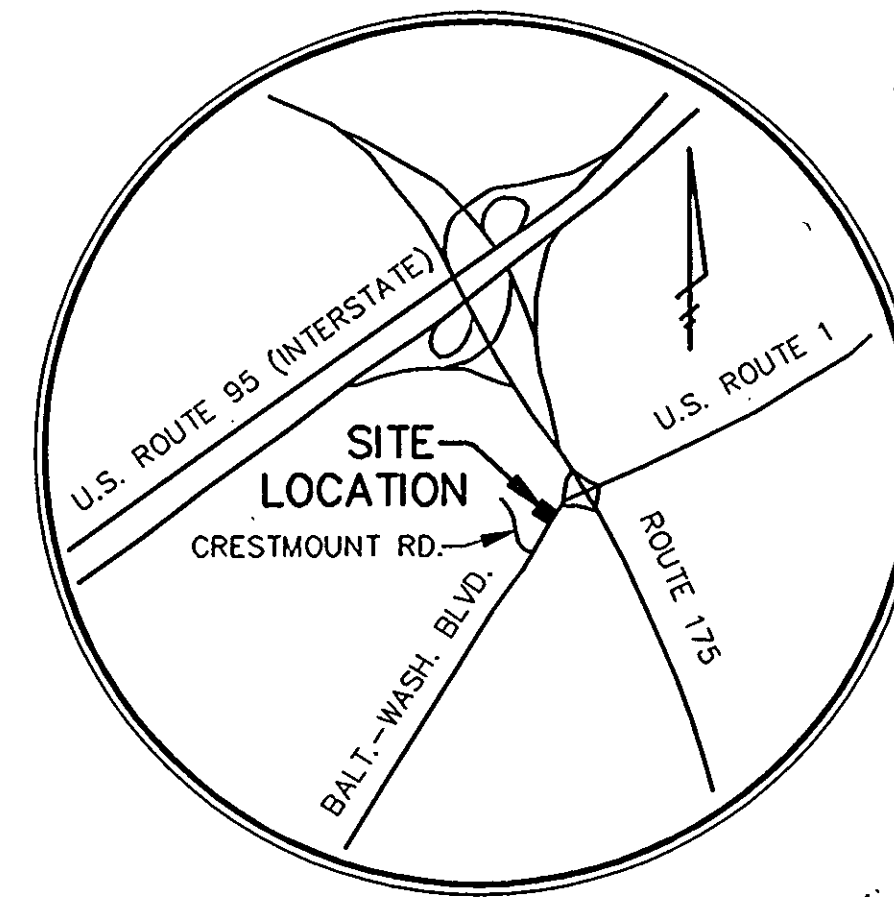
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS HEREIN SHALL CONFORM TO THE CURRENT HOWARD COUNTY DESIGN MANUAL FOR CONSTRUCTION STANDARDS, SPECIFICATIONS, AND DETAILS AND/OR CURRENT MSHA STANDARDS AND SPECIFICATIONS.
- SITE PLAN DRAWINGS (SHEET 1-13) SUPERCEDE EXXON REFERENCE DRAWINGS.
- SHAK CONSULTANTS, INC. DOES NOT CERTIFY TO THE LOCATION OR EXISTENCE OF ANY UNDERGROUND UTILITIES. THE UNDERGROUND UTILITIES SHOWN ARE FROM AVAILABLE RECORDS. THIS DOES NOT CONSTITUTE A GUARANTEE OF THEIR ACTUAL LOCATIONS OR THAT THEY HAVE ALL BEEN SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION. TEST HOLES SHALL BE MADE TO VERIFY ALL CROSSING BETWEEN NEW AND EXISTING FACILITIES AND AT CRITICAL GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS, THE CONTRACTOR SHALL NOTIFY SHAK CONSULTANTS, INC. AND APPROPRIATE REVISIONS WILL BE MADE TO THE PLANS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING THE PUBLIC RIGHT OF WAY. IT IS THE CONTRACTORS' RESPONSIBILITY TO CLEAN STREETS AND TO TAKE WHATEVER MEASURES NECESSARY TO INSURE THAT THE STREETS ARE MAINTAINED IN A CLEAN AND DUST FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM THE WORK IN SUCH A MANNER TO PREVENT THE WASHING OF ANY TOP SOIL OR DEBRIS ONTO ADJACENT PROPERTIES.
- ALL FINISH GRADING AND SODDING SHALL BE DONE TO PRECLUDE THE PONDING OF WATER ON THE SITE, PARTICULARLY ADJACENT TO THE BUILDING OR STORM INLETS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, (410)792-7277.

**SITE NOTES**

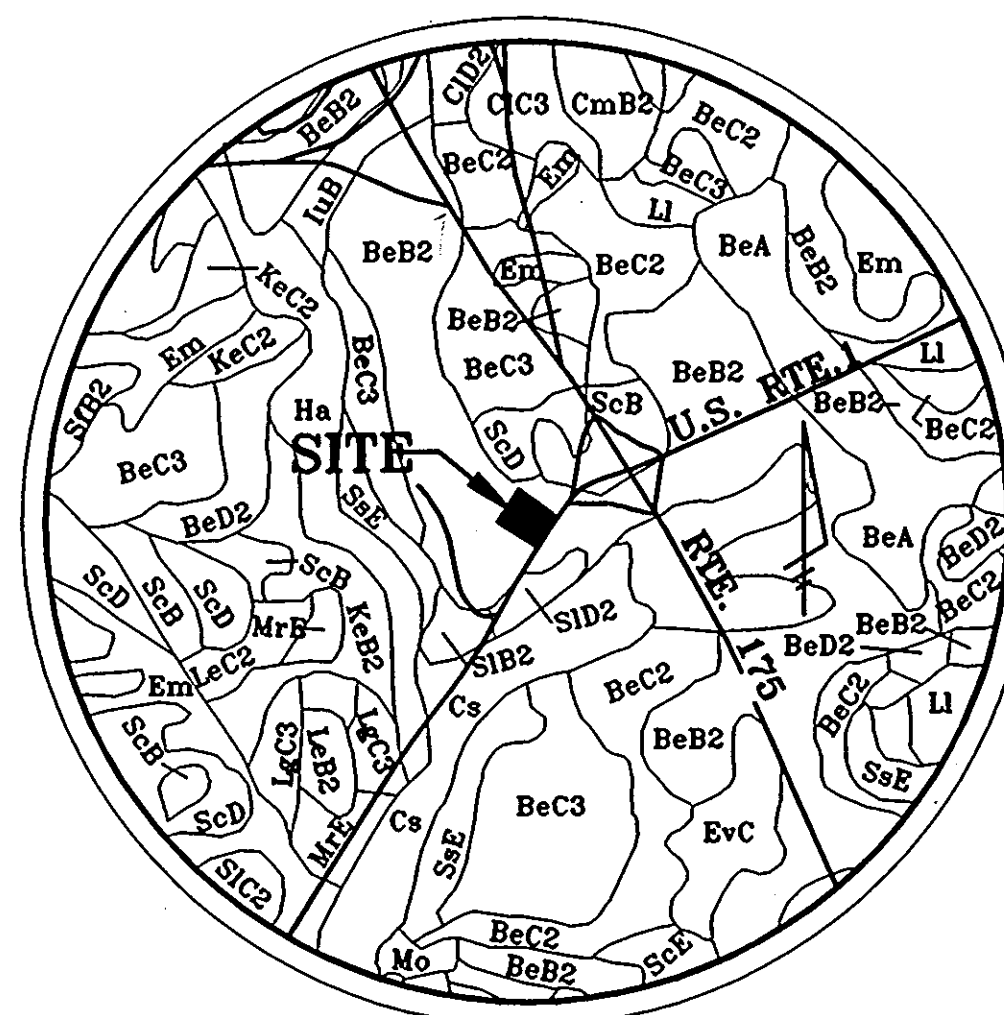
- THE PROJECT CONSISTS OF THE DEMOLITION OF AN EXISTING GASOLINE SERVICE FACILITY AND THE CONSTRUCTION OF A NEW GASOLINE FACILITY/QUICK SERVICE FOOD STORE AND CARWASH.
- LAND SHOWN HEREON IS PRESENTLY IN THE NAME OF EXXON CORPORATION, AS RECORDED IN LIBER 525 AT FOLIO 183 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.
- PROPERTY IS ZONED B-2 AND IS LOCATED ON HOWARD COUNTY TAX MAP 43, PARCEL 413, F-93-105
- SITE ADDRESS: 7930 WASHINGTON BLVD. WATERLOO, MD 21227.
- BOUNDARY TOPOGRAPHIC SURVEY, MERIDAN & VERTICAL DATUM WERE PREPARED BY FOWLER ASSOCIATES, INC. DATED AUGUST 7, 1991.
- ROADWAY ENTRANCES ARE EXISTING AND ARE NOT WITHIN 200 FT. OF ANY RESIDENTIAL STRUCTURES. PUBLIC NOTICE IS NOT REQUIRED.
- SOILS REPORT FOR PAVEMENT DESIGN AND FOUNDATION DESIGN WILL BE PROVIDED PRIOR TO FINAL DESIGN.
- INFILTRATION TRENCH PERCOLATION TESTS WERE PERFORMED BY EBA ENGINEERING INC. ON NOV. 4, 1992. PERCOLATION RATES OF THESE TESTS ARE:  
TEST #1 = 6.4 in./hr.  
TEST #5 = 16.5 in./hr.  
SEE SHEET 2 FOR TEST LOCATIONS.

ABBREVIATIONS	LEGEND
AC	PROPERTY OR R/W LINES
BC	CENTER LINE
BM	EXISTING CONTOURS
BW	PROPOSED CONTOURS
BRL	EXISTING SPOT ELEVATION
BS	NEW SPOT ELEVATION
C	EXISTING FENCE LINE
Cg	EXISTING GUARD RAIL
CG	PROPOSED GUARD RAIL
CP	EXISTING CURB OR CURB & GUTTER
CP	PROPOSED CURB FACE & GUTTER
CO	EXISTING WATER (TYP. ALL UTILS.)
CO	PROPOSED WATER (TYP. ALL UTILS.)
CP	EXISTING SANITARY SEWER
CP	PROPOSED SANITARY SEWER
CP	EXISTING STORM SEWER
CP	PROPOSED STORM SEWER
CP	UTILITY POLE
CP	STREET LIGHT
CP	YARD LIGHT
CP	EXISTING BUILDING
CP	PROPOSED BUILDING
CP	EXISTING CANOPY
CP	PROPOSED CANOPY
CP	PROPOSED CONCRETE PAVEMENT
CP	DITCH, SWALE OR SMALL STREAM
CP	EXISTING TREE
CP	EDGE OF WOODS
CP	EXISTING TO REMAIN
CP	MEET EXISTING GRADE
CP	REPLACE EXISTING CURB

**EXXON CORPORATION**  
**EXXON STATION RAS NO. 2-6427**  
**7930 WASHINGTON BOULEVARD**  
**ELECTION DISTRICT No. 6**  
**HOWARD COUNTY, MARYLAND**  
**SDP - 93-04**  
**CASE NO. BA-92-13E**  
**SCI NO. 91M-4554**



**HOWARD COUNTY VICINITY MAP**  
SCALE: 1" = 2000'



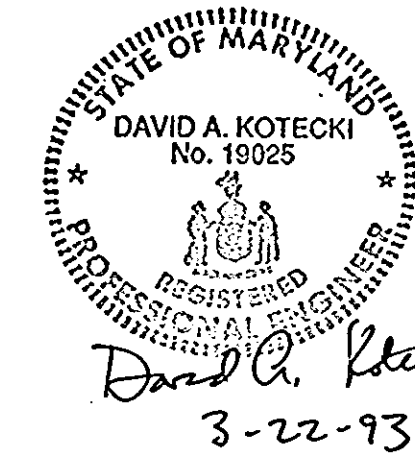
**SOILS MAP**  
SCALE: 1" = 1000'

NOTE: PROPERTY FALLS COMPLETELY WITHIN THE BeB2 SOIL GROUP. THEREFORE NO ADDITIONAL SOILS INFORMATION IS PROVIDED.

MAP SYMBOL	SOIL NAME	DESCRIPTION	PERMEABILITY (in./hr.)
BeB2	BELTSVILLE SILT LOAM	1 TO 5% SLOPES, MODERATELY ERODED	0.63 - 2.0
ScB	SANDY & CLAYEY LAND	MODERATE SLOPES	2.0 - 6.3
ScB	SANDY & CLAYEY LAND	GENTLE SLOPES	2.0 - 6.3
SiB2	SASSAFRAS LOAM	1 TO 5% SLOPES, MODERATELY ERODED	2.0 - 6.3

\* SOILS MAP AND TABLE INFORMATION OBTAINED FROM "SOIL SURVEY" FOR HOWARD COUNTY, MARYLAND.

PREPARED BY  
**SHAK CONSULTANTS INC.**  
 30 WEST GUDE DRIVE, SUITE 120, ROCKVILLE, MARYLAND 20850  
 (301)-294-6390  
 JULY 6, 1992



APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER [Signature] DATE 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR [Signature] DATE 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT [Signature] DATE 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR [Signature] DATE 6/9/92  
 CHIEF, BUREAU OF ENGINEERING [Signature] DATE 5-6-92

**SITE PLAN SHEET INDEX**

SHEET NO.	SHEET TITLE
1.)	COVER SHEET
2.)	SITE PLAN
3.)	DEMOLITION PLAN
4.)	GRADING AND DRAINAGE PLAN
5.)	HORIZONTAL & VERTICAL CONTROL PLAN
6.)	UNDERGROUND PIPING PLAN
7.)	SANITARY SEWER PROFILES
8.)	STORM SEWER PROFILES
9.)	SITE DETAILS
10.)	SITE DETAILS & STORM COMPUTATIONS
11.)	EROSION, SEDIMENT CONTROL & DRAINAGE DIVIDE PLAN
12.)	EROSION & SEDIMENT CONTROL DETAILS
13.)	LANDSCAPE PLAN
14.)	SITE DETAILS AND ELEVATIONS

**EXXON REFERENCE DRAWINGS**

PLAN No.	SHEETS	DESCRIPTION
1.)	5195	1-9 BUILDING/CANOPY DETAILS
2.)	7600	1 DISPENSER CONTROL WIRING
3.)	4711A	1-7,SA-1 CAR WASH DETAILS
4.)	7030	1-5 FUEL TANKS AND U/G PIPING DETAILS/SPECS.
5.)	7033	1 LEAK DETECTION DETAILS
6.)	80025	1-2 PAVEMENT DETAILS/SPECS.
7.)	1043	1-2 SITE DETAILS
8.)	1199A	1-2 LANDSCAPE/IRRIGATION DETAILS/SPECS.
9.)	1100	1 FREESTANDING SIGN DETAILS

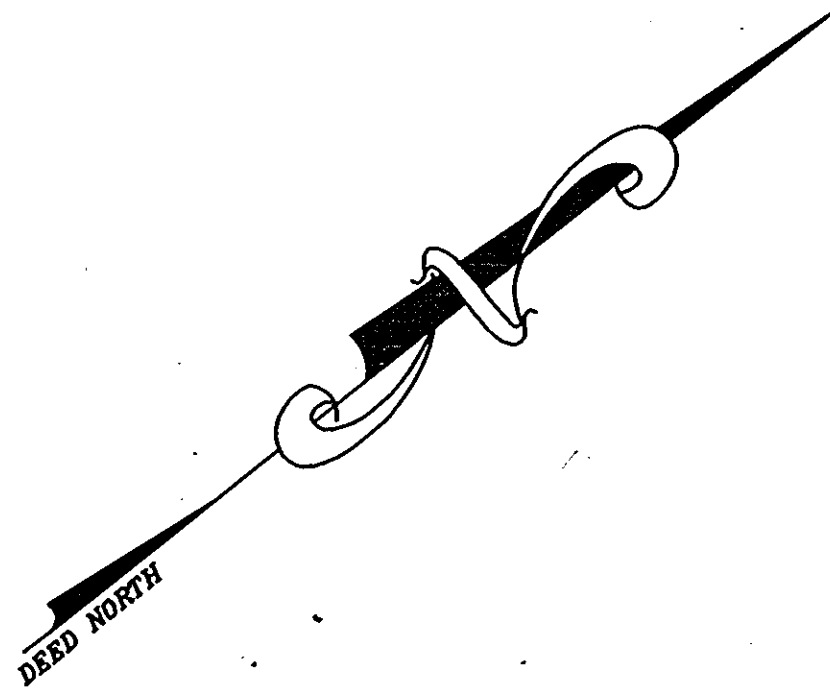
NOTE: SEE SITE PLAN FOR VEHICULAR ACCESS RESTRICTIONS AND BEARING AND DISTANCES PER F-93105

**OWNER**

EXXON CORPORATION  
 6301 IVY LANE, SUITE 700  
 GREENBELT MD 20770

SUBDIVISION NAME			SECT./AREA		PARCEL #
JESSUP EXXON			N/A		A
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC DIST	CENSUS TRACT
10812	1	B-2	43	6th	6067.03
WATER CODE			SEWER CODE		
B02			3350000		

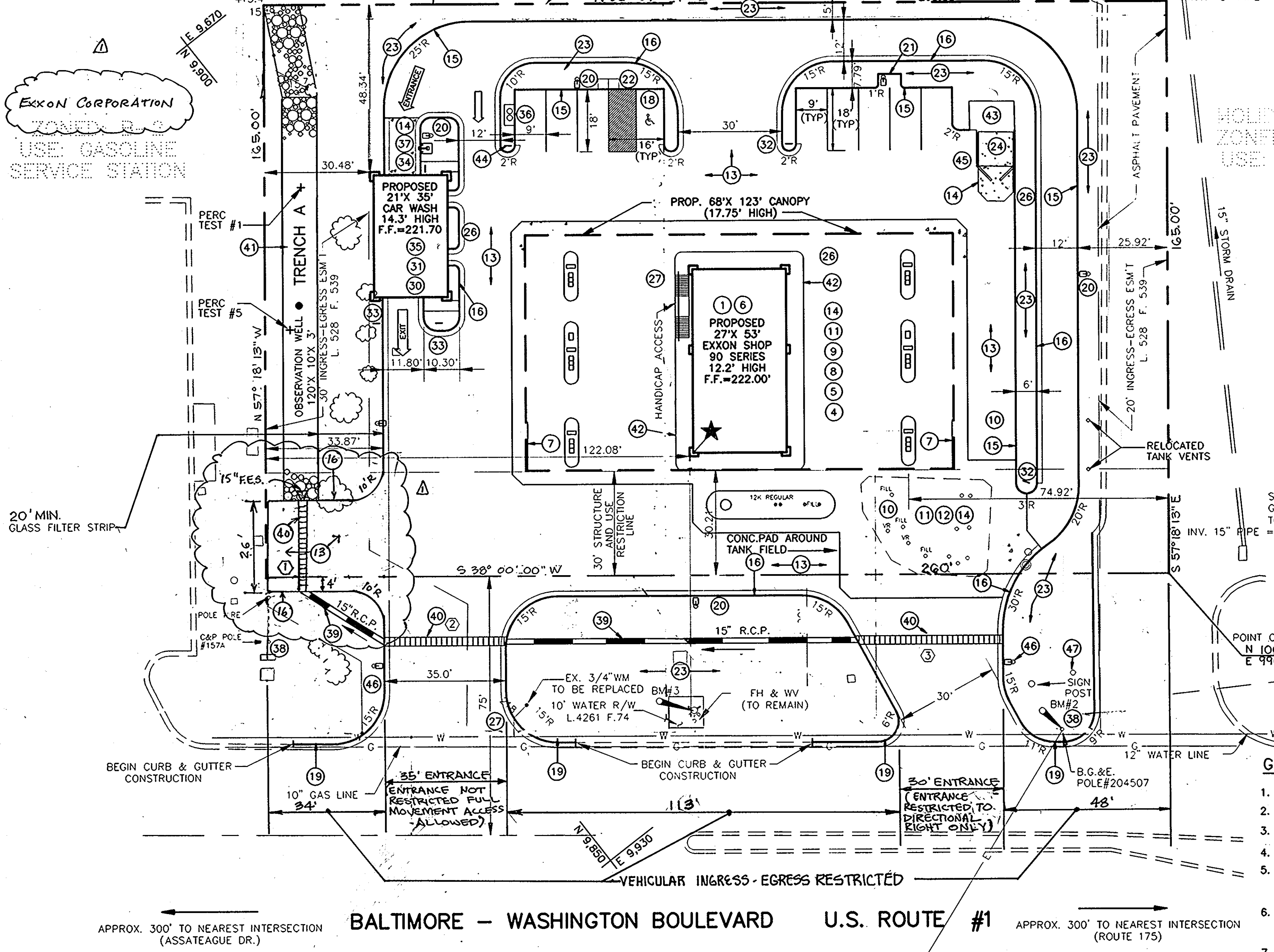
ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
A	7930 BALTIMORE WASHINGTON BLVD. (U.S. RTE. 1)



HOLIDAY INN  
ZONED: B-2  
USE: HOTEL

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM. HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: [Signature] DATE: 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: [Signature] DATE: 7/30/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/30/92  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 6/9/92  
 CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 5-2-93



**SITE TABULATION:**  
 BA CASE No.: 92-13E GRANTED ON: 7/14/92  
 PREVIOUS SITE DEVELOPMENT PLAN No. \_\_\_\_\_  
 ZONED: B-2  
 TOTAL SITE AREA: 0.9648 OR 42,900 S.F.  
 PROPOSED SHOP AREA IS COMPOSED OF THE FOLLOWING AREAS:  
 RETAIL: 689 G.S.F.  
 STORAGE/UTILITIES: 742 G.S.F.  
 TOTAL: 1,431 G.S.F.  
 CANOPY: 8,364 G.S.F.  
 CARWASH: 735 G.S.F.  
 BUILDING HEIGHT:  
 PERMITTED: 40 FT  
 PROVIDED:  
 SHOP: 12.16 FT  
 CANOPY: 17.75 FT  
 CARWASH: 14.31 FT  
 BUILDING AREA: 1431 S.F.  
 BUILDING COVERAGE: 3.33%  
 CANOPY AREA: 8364 S.F.  
 CANOPY COVERAGE: 19.44%  
 BUILDING & CANOPY AREA: 9795 S.F.  
 BUILDING & CANOPY COVERAGE: 22.83%

**PARKING TABULATION:**  
 RETAIL:  
 REQUIRED: 1 SPACE/200 S.F. OF FLOOR AREA PLUS 1 SPACE/EMPLOYEE  
 TOTAL SPACES REQUIRED: 8 SPACES (INCLUDING 1 HANDICAP SPACE)  
 TOTAL SPACES PROVIDED: 9 SPACES (INCLUDING 1 HANDICAP SPACE)  
 \*NOTE: NO SERVICE VEHICLES ON PREMISES  
 PARKING AREA: 4,736 S.F.  
 LANDSCAPE AREA REQUIRED 5%(PARKING AREA): 237 S.F.  
 LANDSCAPE AREA PROVIDED WITHIN PARKING AREA: 1,040 S.F.

**OPEN SPACE TABULATION:**  
 OPEN SPACE REQUIRED: 20% 8,580 S.F.  
 OPEN SPACE PROVIDED: 21.8% 9,360 S.F.

**MINIMUM YARD REQUIREMENTS:**  
 FRONT YARD: 30 FEET  
 SIDE YARD: N/A  
 REAR YARD: N/A

- GENERAL NOTES:**
- SEE SHEET 4 FOR PROPOSED SITE GRADING.
  - SEE SHEET 5 FOR HORIZONTAL & VERTICAL CONTROL.
  - SEE SHEET 6 FOR UNDERGROUND PIPING LAYOUT.
  - SEE SHEET 13 FOR PROPOSED LANDSCAPING
  - ALL UTILITY CONNECTIONS ARE TO BE MADE BY GENERAL CONTRACTOR, AS PER LOCAL CODE AND EXXON'S ENGINEER.
  - GENERAL CONTRACTOR TO PROVIDE CONDUIT & WIRING TO ALL EXXON I.D. SIGNS AS REQUIRED AND CONDUIT ONLY TO PUBLIC TELEPHONE BOOTH.
  - SITE PLAN DRAWINGS (SHTS. 1-14) SUPERSEDE ALL EXXON REFERENCE DRAWINGS.
  - UNLESS OTHERWISE NOTED, ALL PAINT TO BE FURNISHED BY GENERAL CONTRACTOR.
  - AT ENTRANCES, TRANSITION FROM MSHA CURB TO HOWARD COUNTY CURB AFTER TRENCH DRAINS.

GENERAL NOTES		REFERENCE DRAWING NUMBER
B. S.	= BUILDING SUPPLIER	
G. C.	= GENERAL CONTRACTOR	
E.	= EXXON	
O.	= OTHER	
★	= BUILDING ORIENTATION POINT	
1. ALL UTILITY CONNECTIONS ARE TO BE AS PER LOCAL CODE BY G. C.		
2. G. C. TO PROVIDE CONDUIT & WIRING TO ALL EXXON I.D. SIGNS & CONDUIT ONLY TO PUBLIC TELEPHONE BOOTH.		
3. SITE PLAN SUPERSEDES ALL WORKING DRAWINGS.		
4. UNLESS OTHERWISE NOTED, ALL PAINT TO BE FURNISHED BY G. C.		
BUILDING		
1	BS BS	BUILDING TYPE 27' X 53' EXXON SHOP WITH 3 PHASE ELEC. (120/208) AND MAXIMUM SECURITY. 5185, 4,556-8,7500-1
CANOPY / ISLANDS		
4	BS BS	CANOPY TYPE 68' X 123' 5185, 1-3, 7500-1
5	E GC	DISPENSING EQUIPMENT (8) M20-3 ADVANTAGE SERIES W/ GRIND
6	E GC	TRANSAC SYSTEM TCR-15 (6-SITE, 2-REO'D.) (36 F.P.)
7	E BS	(2) CANOPY FASCIA SIGNS (2) 'EXXON'
8	E GC	SPEAKER BARS (6) BLANK
9	GC GC	CANOPY DOWNSPOUT DRAINS (2) UNDERGROUND (1) ABOVE GROUND 2-6427,8
YARD AREA - TANKS		
10	E GC	EXISTING FIBERGLASS TANKS FOR MOTOR FUEL TO REMAIN. EXISTING FIBERGLASS TANK FOR MOTOR DIESEL TO BE REMOVED AND REPLACED. (12X)REGULAR (8X)DIESEL (10X)SUPREME (10X)PLUS 7030, 1-4,44,5 2-6427,6
11	E GC	ENVIRONMENTAL PRODUCT PIPING TO NEW MPO'S
12	GC GC	VAPOR RECOVERY SYSTEM (STAGE I) (PIPE FOR STAGE II) 7033-1
YARD AREA - OTHER		
13	GC GC	ASPHALT PAVING PER EXXON'S FIELD ENGINEER 80025,1-2/2-6427,9
14	GC GC	CONCRETE W/ #3 REBAR AT 18 IN. O.C. EACH WAY 80025,1-2
15	GC GC	6" HEADER CURB 2-6427,9/80025,1-2
16	GC GC	6" CURB WITH 16" GUTTER 2-6427,9/80025,1-2
17	GC GC	HANDICAPPED RAMP & RAILING PER ADA SPECIFICATIONS 2-6427,10
18	E GC	INSTALL (1) HANDICAPPED PARKING ONLY SIGN PER LOCAL CODE 2-6427,10
19	GC GC	DRIVE APPROACH AND CURBING OUTSIDE PROPERTY LINE 80025,1-2
20	E GC	(5) NEW YARD LIGHTS FIXTURES & POLES (PREFINISHED) 1043,1/2-6427,9
21	GC GC	AIR/WATER/LIGHT 1043,1/2-6427,9
22	GC GC	3'X6'X4" REINFORCED CONCRETE MAT W/CONDUITS FOR PUBLIC TELEPHONES 1043,1,2
23	GC GC	LANDSCAPING/IRRIGATION 1169A,1-2/2-6427,13
24	GC GC	TRASH ENCLOSURE 1043,1/2-6427,9
25	GC GC	SAN. SEWER LATERAL TO BE TIED INTO EX. MH "A" (SEE NOTE 3) PER EXXON'S ENGINEER AND LOCAL CODE. 2-6427,6&7
27	GC GC	REMOVE EX. 3/4" WM AND 1" SERVICE. PROVIDE NEW 2" TYPE 'K' W/L FROM MAIN TO PROP. 1 1/2" W/M. 1 1/2" TYPE 'K' WATER SERVICE LINE TO BLDG PER EXXON'S ENGINEER AND LOCAL CODE. 4711A,1-7,5A-1
29	GC GC	BLDG. ELECTRICAL & TELEPHONE SERVICE ROUTE UNDERGROUND PER EXXON'S FIELD ENGINEER & PER LOCAL CODE
30	GC GC	CAR WASH W/ 3 PHASE ELECTRIC (120/208)
31	E GC	CAR WASH EQUIPMENT W/ RECLAIM AND VOTAGER
32	E GC	CAR WASH 'ENTER' SIGN
33	E GC	CAR WASH 'EXIT' SIGN
34	E GC	CAR WASH 'INSTRUCTION' SIGN
35	E GC	CAR WASH 'BUILDING' SIGN
36	E GC	(1) VACUUM & (1) TRASH CONTAINER ON 3'X6'X4" REINF. CONC. SLAB
37	E GC	COIN BOX FOR CAR WASH
38	- GC	EXIST. UTILITY POLE TO REMAIN
39	GC GC	15" RCP STORM SEWER PIPE 2-6427,2,4-6,8
40	GC GC	TRENCH DRAIN 2-6427,9
41	GC GC	INFILTRATION TRENCH 2-6427,2,4-6,8
42	GC GC	CURB & SIDEWALK AT BLDG 2-6427,10
43	GC GC	EX. SHED RELOCATED ON NEW 6" REINF. CONC. PAD 2-6427,3
44	GC GC	"DO NOT ENTER" SIGN
45	GC GC	BOLLARD PER EXXON'S ENGINEER
46	GC GC	(2) NEW YARD LIGHTS FIXTURES & POLES (PREFINISHED, SPECIAL DESIGN SEE SHT. 9) 1043,1/2-6427,9
47	- GC	EXISTING EXXON I.D. SIGN TO REMAIN

BM #	DESCRIPTION	ELEV.
2	20 PENNY NAIL NE SIDE B.G.&E. POLE#204507	221.28
3	TOP OF FIRE HYDRANT	221.91



DATE:	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
1/14/93	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.
2/23/94	REV. FOR INTERPARCEL ACCESS	DAK	DAK

**EXXON CORPORATION** Real Estate & Engineering  
 Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770  
**SITE PLAN**  
 7930 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT 10007.003  
 LIBER 525, FOLIO 183  
 TAX MAP #43 PARCEL #3 PLAT #10812  
 WATER CODE 807 SEWER CO. 3350000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: NONE  
 RAS NO.: 2-6427  
 DWG NO.: BIDSITE.DWG

engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

Designed: H.A.C. Checked: D.A.K.  
 Date: 09-20-92 Scale: 1"=20'  
 Project No.: 91M-4554 Sheet No.: 2 OF 14

SHAK CONSULTANTS, INC.



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

*John B. ...* 7-22-92  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Richard ...* 7/30/93  
 DIRECTOR DATE

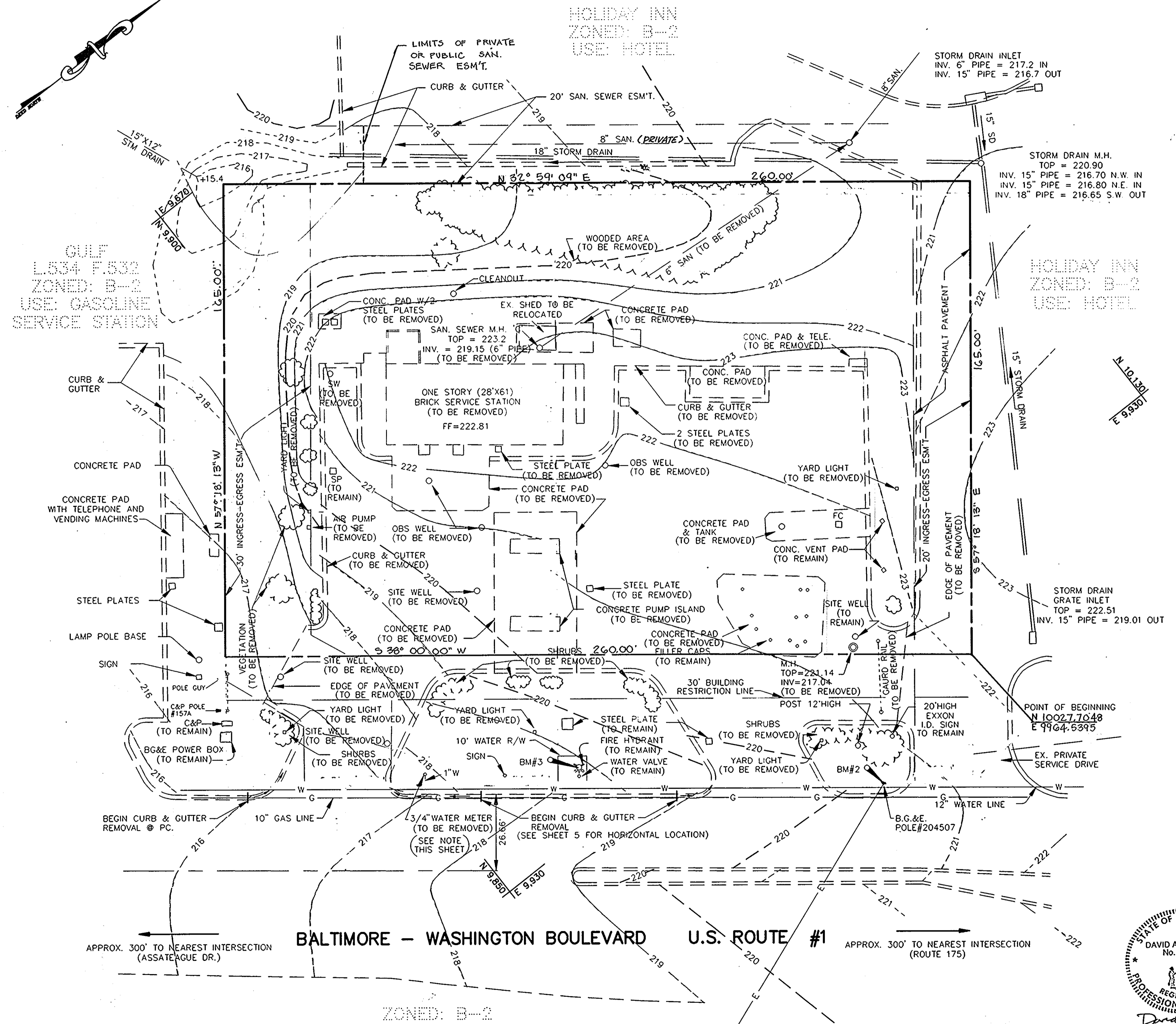
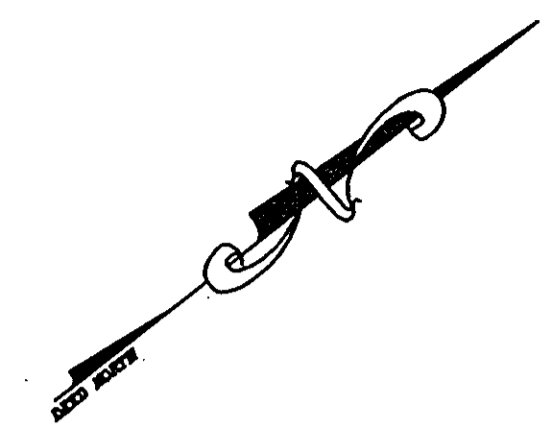
*Richard ...* 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*...* 6/9/93  
 DIRECTOR DATE

*...* 5-6-93  
 CHIEF, BUREAU OF ENGINEERING DATE

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-22-92



GULF  
 L534 F.532  
 ZONED: B-2  
 USE: GASOLINE  
 SERVICE STATION

HOLIDAY INN  
 ZONED: B-2  
 USE: HOTEL

- DEMOLITION NOTES:**
- CONTRACTOR TO MEET WITH EXXON FIELD ENGINEER ON THE JOB SITE TO IDENTIFY EQUIPMENT, SIGNS, AND ITEMS PRIOR TO THE START OF DEMOLITION.
  - CONTRACTOR SHALL TRANSPORT EQUIPMENT, AS DESIGNATED BY EXXON FIELD ENGINEER, TO A LOCAL EXXON INVENTORY STORAGE AREA.
  - CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY O.S.H.A. AND EXXON.
  - EXISTING CURB WITHIN THE STATE RIGHT-OF-WAY TO REMAIN AS SPECIFIED ON THIS SHEET.
  - EXISTING 6" SANITARY SEWER WHICH SERVES THE EXISTING FACILITY TO BE REMOVED FROM MANHOLE 'A' UP TO AND INCLUDING MANHOLE 'C'.
  - THE EXISTING 3/4" WATERMETER & 1" SERVICE CONNECTION TO BE REMOVED & REPLACED WITH A 1 1/2" WATERMETER AND 2" TYPE 'K' COPPER SERVICE CONNECTION.

BM #	DESCRIPTION	ELEV.
2	20 PENNY NAIL NE SIDE B.G.&E. POLE#204507	221.28
3	TOP OF FIRE HYDRANT	221.91



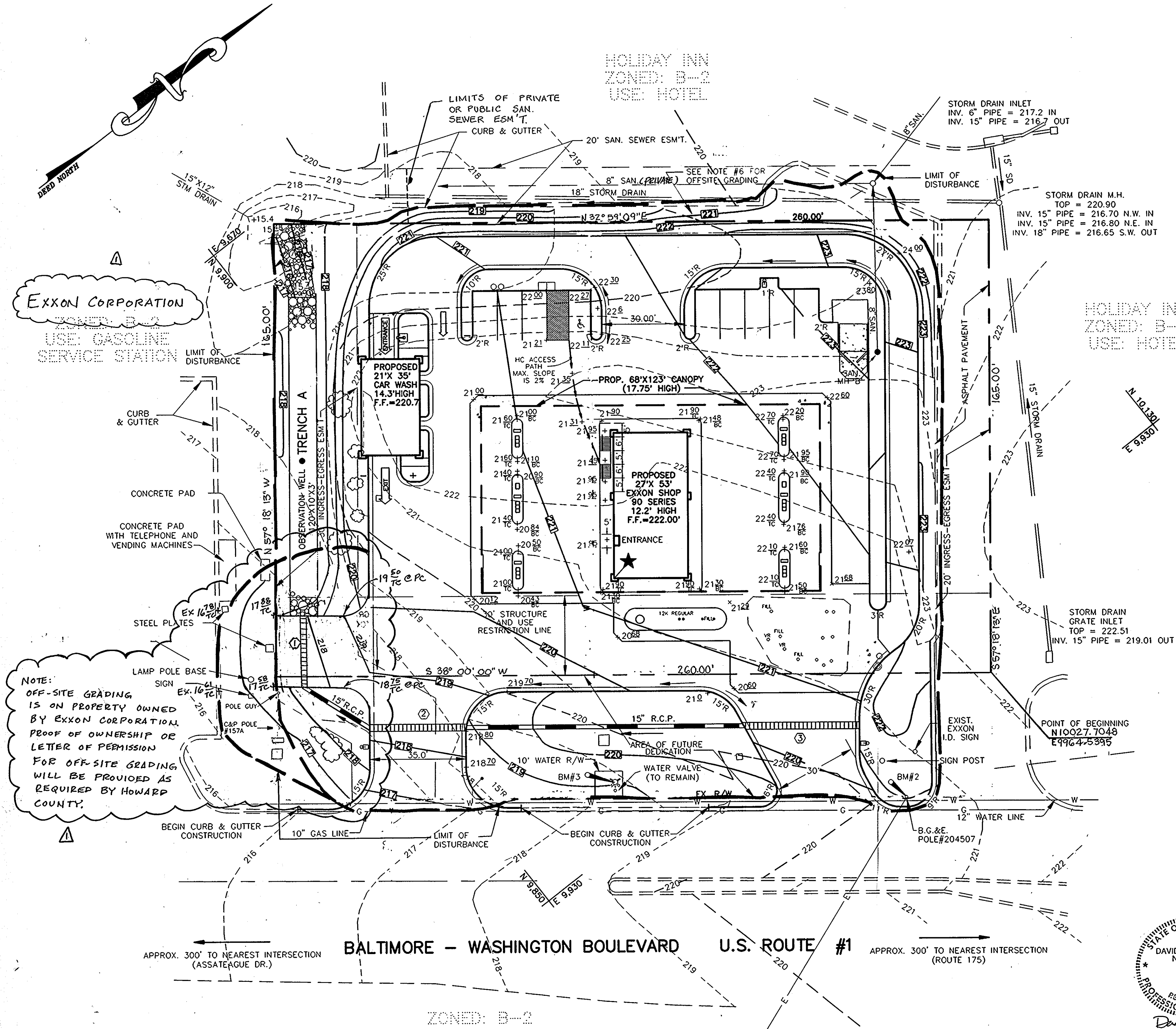
<b>EXXON CORPORATION</b> Real Estate & Engineering Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770		PROJECT NO.: 91M-4554
7930 WASHINGTON BOULEVARD ELECTION DISTRICT No. 5 CENSUS TRACT #06703 LIBER 525, FOLIO 185 TAX MAP #43 PARCEL #A PLAT# 10812 WATER CODE 802 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		DISK NO.: NONE
DRAWN BY: CoV.		RAS NO.: 2-6427
engineers project management planners		DWG NO.: BIDDEM.DWG
30 west gude suite 120 rockville maryland 20850		Designed H.A.C. Checked D.A.K.
p.o. box 10313 rockville 20849-0313 phone 301 294 6390		Date 09-20-92 Scale 1"=20'
SHAK CONSULTANTS, INC.		Project No. 91M-4554 Sheet No. 3 OF 14

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.

AutoCAD FILE NAME: BIDDEM.DWG

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER *[Signature]* 7-22-93 DATE  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR *[Signature]* 7/30/93 DATE  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *[Signature]* 7/30/93 DATE  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR *[Signature]* 8/19/93 DATE  
 CHIEF, BUREAU OF ENGINEERING *[Signature]* 8-6-93 DATE

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-22-92



NOTE:  
 OFF-SITE GRADING IS ON PROPERTY OWNED BY EXXON CORPORATION. PROOF OF OWNERSHIP OR LETTER OF PERMISSION FOR OFF-SITE GRADING WILL BE PROVIDED AS REQUIRED BY HOWARD COUNTY.

- NOTES:**
1. PROPOSED CURB & GUTTER SHOULD BE CONSTRUCTED FOR SMOOTH TRANSITION WITH EXISTING CURB.
  2. SEE SHEET 5 FOR HORIZONTAL & VERTICAL CONTROL.
  3. SEE SHEET 7 FOR SANITARY SEWER PROFILES.
  4. SEE SHEET 8 FOR STORM DRAIN PROFILES AND COMPUTATIONS.
  5. SEE SHEET 8 FOR INFILTRATION TRENCH DETAILS.
  6. OWNER/DEVELOPER TO OBTAIN LETTER OF PERMISSION FOR OFFSITE GRADING PRIOR TO PLAN APPROVAL.
  7. HANDICAPPED WILL USE MAIN ENTRANCE IN THE FRONT OF BUILDING.

STATE OF MARYLAND  
 DAVID A. KOTECKI  
 No. 19025  
 REGISTERED PROFESSIONAL ENGINEER  
*[Signature]*  
 3-22-93  
 2-23-94

BENCHMARK DATA		
BM#	DESCRIPTION	ELEV.
2	20 PENNY NAIL NE SIDE B.G.&E. POLE#204507	221.28
3	TOP OF FIRE HYDRANT	221.91

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
3/29/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.
2/23/94	Rev. FOR INTERPARCEL ACCESS	D.A.E.	D.A.K.

<b>EXXON CORPORATION</b> Real Estate & Engineering Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770		PROJECT NO.: 91M-4554
<b>GRADING AND DRAINAGE PLAN</b> 7930 WASHINGTON BOULEVARD ELECTION DISTRICT No. 6 CENSUS TRACT # 6067.20 LIBER 525 FOLIO 183 TAX MAP #43 PARCEL #A PLAT #10812 WATER CODE 802 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		DISK NO.: NONE
DRAWN BY: CoV.		RAS NO.: 2-6427
DRAWN BY: G.S.		DWG NO.: BIDGR.DWG
engineers project management planners		Designed H.A.C. Checked D.A.K.
30 west gude suite 120 rockville maryland 20850		Date Scale 09-15-92 1"=20'
p.o. box 10313 rockville 20849-0313 phone 301 294 6390		Project No. Sheet No. 91M-4554 4 OF 14

AutoCAD FILE NAME: BIDGR.DWG



**SITE PLAN COORDINATE LIST**

**CURB & GUTTER** (ALL ELEVATION ARE TOP OF CURB UNLESS OTHERWISE NOTED)

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	9799.0656	9847.2064	216.5	PT,BEGIN C&G
2	9807.7441	9854.1472	216.9	PC
3	9828.9330	9851.6678	217.9	PT
4	9835.1368	9843.7274	218.5	PT,END C&G
5	9836.6760	9841.7573	218.5	PC
6	9899.0843	9761.8784	221.2	END C&G
7	9908.3761	9769.1438	221.2	PT,BEGIN C&G
8	9904.5805	9773.9990	220.6	PC
9	9912.5517	9780.5285	220.7	PT
10	9921.3575	9769.2637	220.9	PC
11	9936.1408	9750.3656	221.1	PT
12	9946.5776	9737.0150	221.3	PC
13	9942.1561	9729.7508	221.5	PC
14	9929.5075	9741.0598	221.2	END C&G
15	9921.2393	9734.5366	221.2	PT,BEGIN C&G
16	9933.1299	9719.3231	221.6	PC
17	9949.7826	9709.9061	221.5	CURVE MID. PT.
18	9968.2173	9715.0199	221.5	PT
19	10084.5060	9805.8728	223.7	PC
20	10094.6819	9823.8587	223.8	CURVE MID. PT.
21	10089.1595	9843.7720	223.7	PT
22	10022.7322	9928.7951	222.3	PC
23	10003.1907	9936.3653	221.9	PRC
24	9979.8924	9947.8936	221.3	PT
25	9977.0142	9951.5774	221.1	END C&G
26	9975.4751	9953.5475	221.1	PT,BEGIN C&G
27	9971.6414	9958.4544	221.0	PC
28	9968.6687	9965.2049	220.8	PT
29	9967.5325	9971.9704	220.7	PC
30	9971.6123	9982.4636	220.7	PT
31	9973.5895	9984.0069	220.8	PC
32	9986.2610	9982.3993	221.0	PT
33	10017.4505	9941.8496	222.3	TIE TO EX. C&G
34	9859.2125	9894.0406	217.9	PC,TIE TO EX. C&G
35	9856.6657	9873.0211	218.7	PC
36	9862.7172	9865.2755	219.0	END C&G
37	9864.2563	9863.3055	219.0	PC,BEGIN C&G
38	9885.2697	9860.7894	219.7	PT
39	9940.5682	9904.0469	221.0	PC
40	9946.1185	9918.3455	220.6	PT
41	9944.7684	9926.3842	220.4	END C&G
42	9944.2974	9929.1887	220.4	PT,BEGIN C&G
43	9941.2729	9947.1973	220.0	PC
44	9931.6618	9950.9316	219.7	PT
45	9916.7581	9939.2876	219.3	TIE TO EX. C&G
46	9956.1145	9750.9825	221.2	PC,BEGIN C&G
47	9952.8715	9748.4481	221.5	PC
48	9961.3659	9737.5819	221.3	PC
49	9975.4009	9735.8606	221.5	PT
50	9995.9775	9751.9368	221.8	PC
51	9998.5627	9772.9919	222.1	PT
52	9993.1510	9779.9186	221.8	PC
53	9989.9990	9777.4559	221.7	PT
54	9999.8495	9764.8478	221.9	COR
55	9965.9651	9738.3743	221.4	C&G
56	10019.9434	9600.8511	222.6	PC,BEGIN C&G
57	10016.7913	9799.3884	222.5	PT
58	10022.0311	9791.4617	222.7	PC
59	10043.2582	9788.8765	223.0	PC
60	10077.1181	9815.3290	223.4	PC
61	10079.7033	9836.3841	223.4	PC
62	10013.8276	9920.7012	222.0	END C&G @ PC
63	10009.0995	9917.0072	222.3	PT
64	10071.7894	9836.7678	223.6	COR
65	10065.3166	9845.0269	223.4	EDGE OF WALL @ FC
67	10063.2264	9829.8614	223.5	EDGE OF WALL @ FC
68	10056.7440	9838.1326	223.0	EDGE OF WALL
69	10059.3020	9826.8150	223.5	PC
70	10058.9573	9824.0076	223.6	PT
71	10065.2544	9815.9477	223.7	COR
72	10029.7939	9788.2429	223.0	COR

**BUILDING & CANOPY**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
73	9939.9570	9852.8243	222.0	SOUTH COR
74	9973.8184	9809.4837	222.0	WEST COR
75	9996.6707	9827.3379	222.0	NORTH COR
76	9962.8093	9870.6785	222.0	EAST COR
77	9993.8719	9886.1498	222.1	CL CANOPY COLUMN

**SIDEWALK**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
78	9935.1646	9853.4128	221.9	TC @ SOUTH COR
79	9973.2299	9804.6913	221.9	TC @ WEST COR
80	10001.4631	9826.7495	221.9	TC @ NORTH COR
81	9963.3977	9875.4709	221.9	TC @ EAST COR

**PUMP ISLAND**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
82	9911.3176	9834.2559	221.0	TC @ MID. PT.
83	9920.0908	9823.0267	221.0	TC @ MID. PT.
84	9926.0935	9815.3436	221.4	TC @ MID. PT.
85	9934.8667	9804.1144	221.3	TC @ MID. PT.
86	9940.8694	9796.4313	221.6	TC @ MID. PT.
87	9949.6426	9785.2022	221.6	TC @ MID. PT.
88	10026.0796	9844.9214	222.7	TC @ MID. PT.
89	10017.3064	9856.1505	222.7	TC @ MID. PT.
90	10011.3037	9863.8336	222.4	TC @ MID. PT.
91	10002.5306	9875.0628	222.4	TC @ MID. PT.
92	9996.5279	9882.7459	222.1	TC @ MID. PT.
93	9987.7547	9893.9750	222.1	TC @ MID. PT.

**UNDERGROUND STORAGE TANK**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
94	9988.6469	9905.2610	0.0	CTR. STORAGE TANK
95	9982.9313	9912.6958	0.0	CTR. STORAGE TANK
96	9977.7079	9919.3941	0.0	CTR. STORAGE TANK
119	9949.7788	9878.0386	0.0	CTR. STORAGE TANK

**CONCRETE PAD & GROUND SHOTS**

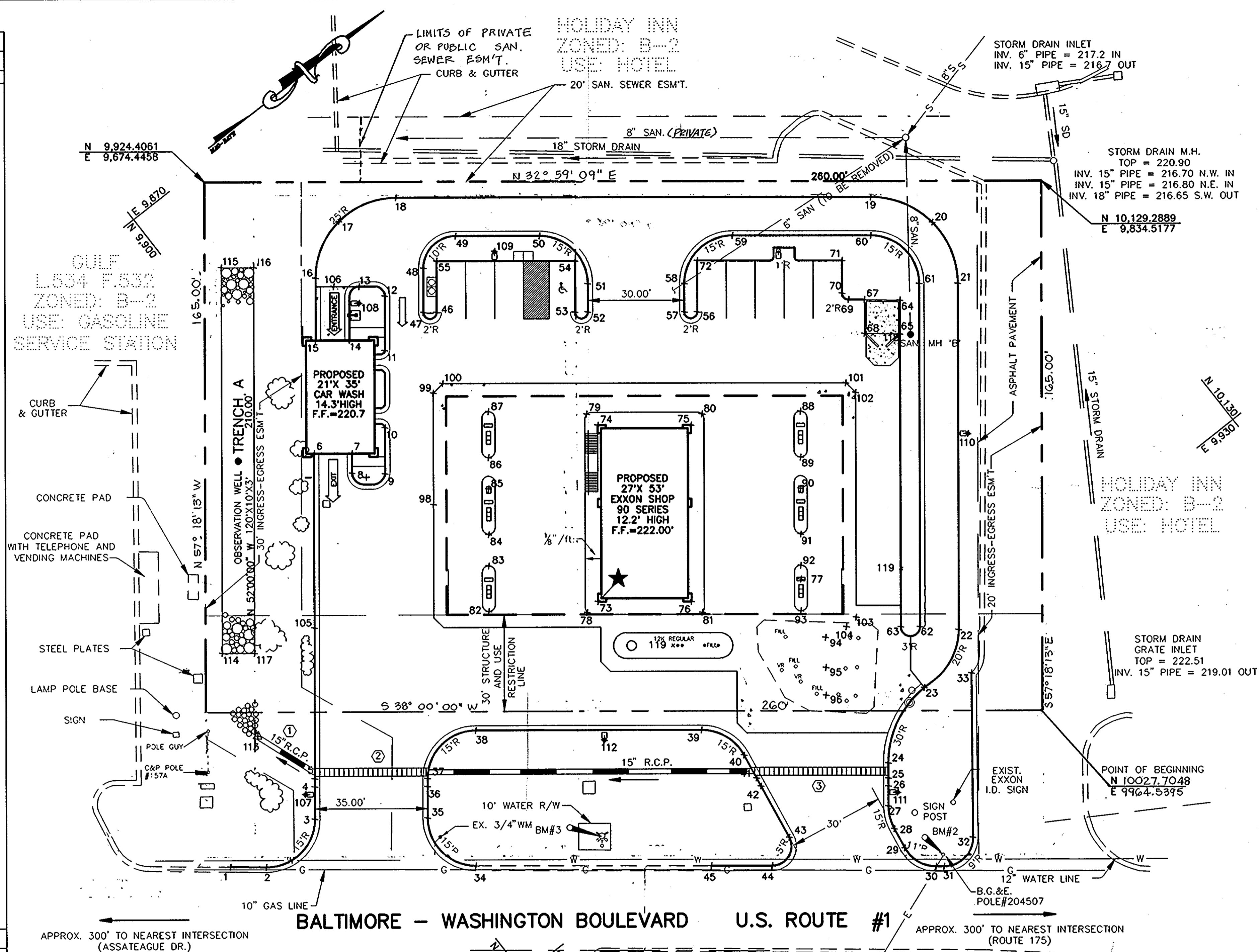
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
97	9898.4880	9781.7971	220.8	COR
98	9918.4103	9797.3621	220.6	COR
99	9939.6879	9770.1279	221.0	WEST COR
100	9943.8990	9769.6109	221.0	WEST COR
101	10042.5973	9846.7225	222.6	NORTH COR
102	10043.1143	9850.9335	222.6	NORTH COR
103	10000.0180	9906.0942	221.6	EAST COR
104	9995.8070	9906.6113	221.6	EAST COR
105	9865.5286	9804.8267	220.5	END @ C&G
106	9935.9550	9724.8825	220.7	GROUND SPOT

**YARD LIGHTS**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
107	9831.3266	9843.7314	0.0	CTR. BASE 16" POLE
108	9938.9402	9733.8300	0.0	CTR. BASE 16" POLE
109	9981.9758	9747.1141	0.0	CTR. BASE 16" POLE
110	10062.7592	9882.4356	0.0	CTR. BASE 16" POLE
111	9976.5342	9956.8558	0.0	CTR. BASE 16" POLE
112	9914.8339	9887.8912	0.0	CTR. BASE 16" POLE

**STRUCTURES**

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
113	9830.9098	9820.2826	216.0	END 15" RCP
114	9838.1292	9793.3670	216.0	COR OF TRENCH
115	9912.1150	9698.6336	217.0	COR OF TRENCH
116	9919.9963	9704.7887	217.0	COR OF TRENCH
117	9846.0104	9799.5222	216.0	COR OF TRENCH
118	10067.6882	9847.2018	223.5	SAN. MH 'B'



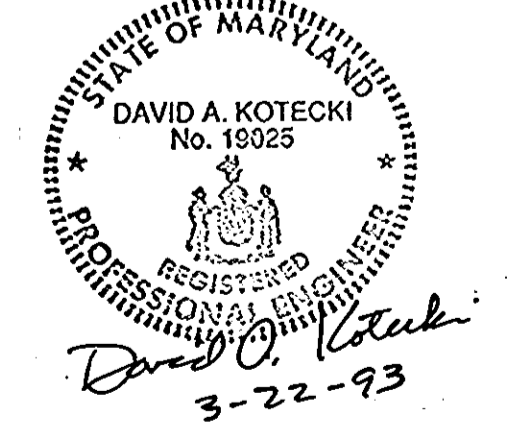
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: [Signature] 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: [Signature] 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR: [Signature] 8/6/93  
 CHIEF, BUREAU OF ENGINEERING: [Signature] 8-6-93

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 12-22-92

**NOTES:**  
 1. BUILDING, CANOPY, PUMP ISLAND AND TRASH ENCLOSURE COORDINATES ARE PROVIDED FOR LOCATING STRUCTURES ON THE SITE. CONTRACTOR SHALL LAYOUT ALL FOUNDATIONS ACCORDING TO ARCHITECTURAL PLANS.  
 2. UNDERGROUND TANK COORDINATES ARE PROVIDED FOR LOCATING STRUCTURES ON THE SITE. CONTRACTOR SHALL PROVIDE TANK SEPERATION ACCORDING TO MANUFACTURES INSTALLATION INSTRUCTIONS.

**ABBREVIATIONS:**

- PC - POINT OF CURVE
- PT - POINT OF TANGENT
- PRC - POINT OF REVERSE CURVE
- COR - CORNER
- FC - FACE OF CURB
- EP - EDGE OF PAVEMENT
- BE - BACK EDGE
- NW COR - NORTHWEST CORNER
- NE COR - NORTHEAST CORNER
- SE COR - SOUTHEAST CORNER
- SW COR - SOUTHWEST CORNER
- CURVE MID. PT. - CURVE MID POINT
- CTR. - CENTER



**EXON CORPORATION** Real Estate & Engineering  
 Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770  
**HORIZONTAL & VERTICAL CONTROL PLAN**  
 7930 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT #6067.03  
 USER 525 FOLD 183  
 TAX MAP #43 PARCEL #A PLAT #10812  
 WATER CODE 802 SEWER CO. 3350000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: NONE  
 RAS NO.: 2-6427  
 DWG NO.: BIDHCP.DWG

DATE	REVISIONS	BY	CHK
11/14/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXON COMMENTS	H.A.C.	D.A.K.
3/29/93	REV. AS PER EXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.

engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390  
**SHAK CONSULTANTS, INC.**

Designed	Checked
H.A.C.	D.A.K.
Date	Scale
09-20-92	1"=20'
Project No.	Sheet No.
91M-4554	5 OF 14

HOLIDAY INN  
ZONED: B-2  
USE: HOTEL

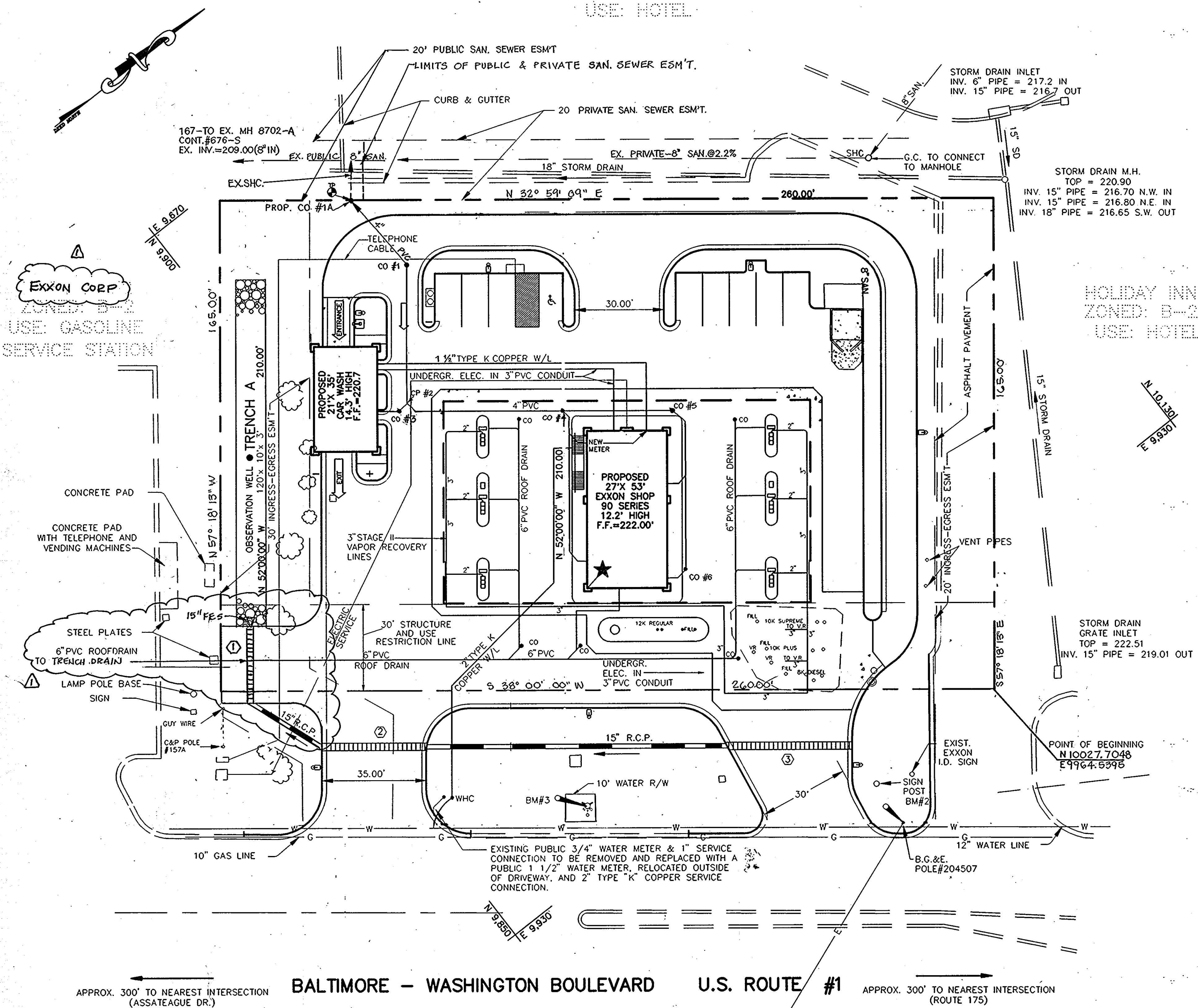
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM. HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: [Signature] DATE: 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: [Signature] DATE: 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR: [Signature] DATE: 6/1/93  
 CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 5-6-93

**SANITARY SEWER LATERAL SCHEDULE**

STRUCTURE	DIAMETER	LENGTH	INVERTS		SLOPE	
FROM	TO	INCHES	FT	UPPER	LOWER	%
CO.#1	CO.#1A	4 PVC	28.59	215.34	213.89	5.07
CP.#2	CO.#1	4	46.83	216.27	215.34	2.00
CO.#3	CP.#2	4	3.63	216.34	216.27	2.00
CO.#4	CO.#2	4	53.33	217.34	216.27	2.00
CP.#7	CO.#4	4	45.06	218.24	217.34	2.00
CO.#6	CO.#5	4	55.42	219.19	218.08	2.00
CO.#5	CO.#4	4	37.01	218.08	217.34	2.00

CO.: CLEANOUT CP: CHECK POINT  
 TEST PIT REQUIRED AT TIME OF CONSTRUCTION TO VERIFY INVERT.



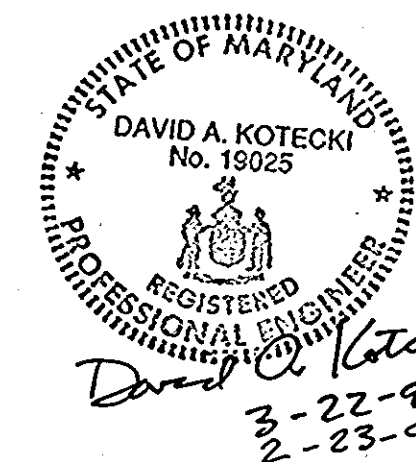
NOTE: INFORMATION ON EXISTING SAN. SEWER PROVIDED BY HOWARD COUNTY D.P.W.

**NOTES:**

- SEE SHEET 7 FOR SANITARY SEWER PROFILES.
- EXISTING 6" SANITARY SEWER WHICH SERVES THE EXISTING FACILITY, TO BE REMOVED FROM MANHOLE 'A' UP TO & INCLUDING MANHOLE 'C'. SEE DEMOLITION PLAN SHEET 3.
- SEE SHEET 8 FOR STORM DRAIN PROFILES AND COMPUTATIONS.
- A MINIMUM DEPTH OF 3 FEET SHALL BE MAINTAINED FOR WATER SERVICE INSTALLATION.
- FUEL SUPPLY PIPES SHALL BE INSTALLED AS SHOWN ON DRAWING #7030 SHEETS 1 TO 5.
- PROVIDE 3/4" COPPER WATERLINE AND 1" ELECTRIC CONDUIT FROM PLUMBING MANIFOLD IN THE BUILDING TO THE NEAREST GRASSED AREA, AS SPECIFIED ON DRAWING 1169A, SHEET 2.
- HORIZONTAL AND VERTICAL LOCATION OF FUEL SUPPLY LINES, VAPOR RECOVERY LINES AND ALL RELATED PIPING, WILL BE DETERMINED IN THE FIELD BY EXXON'S ENGINEER.

**BENCHMARK DATA**

BM #	DESCRIPTION	ELEV.
2	20 PENNY NAIL NE SIDE B.G.&E. POLE#204507	221.28
3	TOP OF FIRE HYDRANT	221.91



**EXXON CORPORATION** Real Estate & Engineering  
 Marketing Department 6302 Ivy Lane, Suite 700, Greenbelt, MD 20770  
**UNDERGROUND PIPING PLAN**  
 7930 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT #606703  
 USER 523 FOLIO 183  
 TAX MAP #43 PARCEL #A PLAT#10812  
 WATER CODE B02 SEWER CO. 2420000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: NONE  
 RAS NO.: 2-6427  
 DWG NO.: UGPBID.DWG

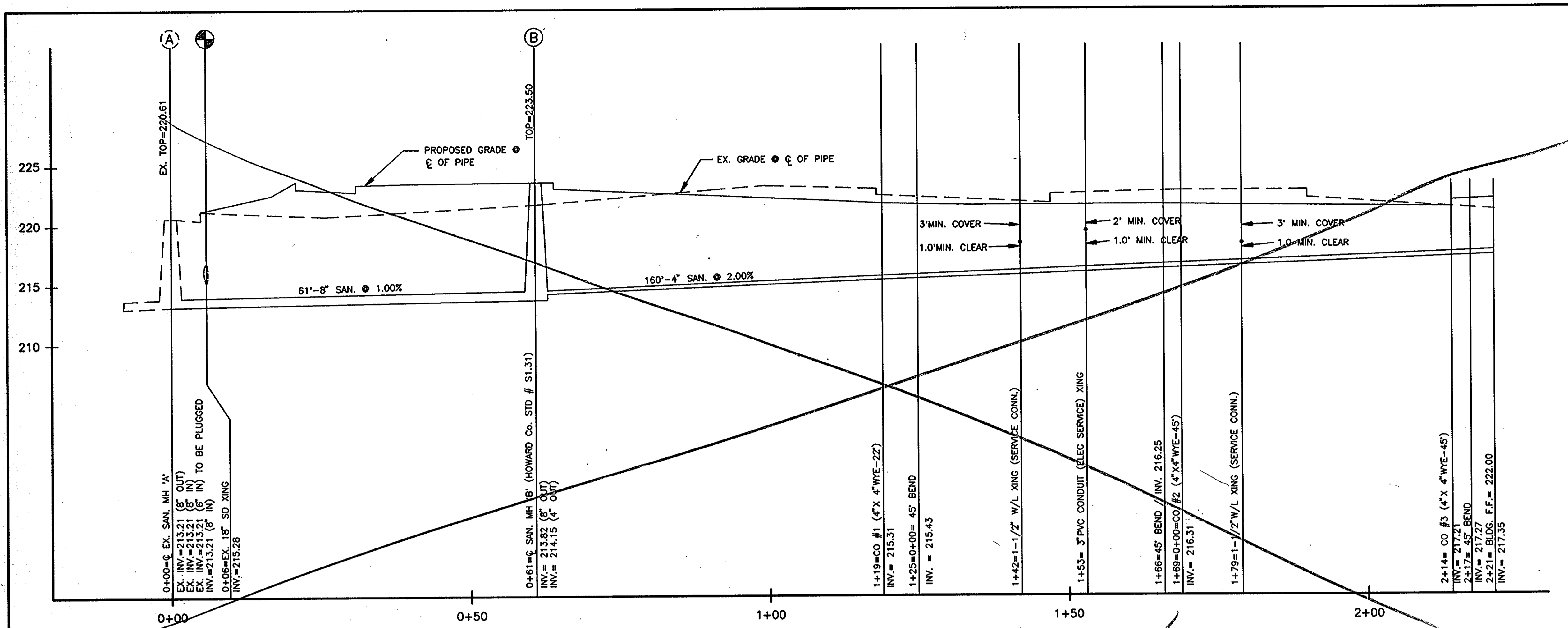
engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

Designed: H.A.C. D.A.K.  
 Date: 09-20-92 Scale: 1"=20'  
 Project No.: 91M-4554 Sheet No.: 6 OF 14

DATE:	REVISIONS	BY	CHK
11/14/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
12/23/92	REV. AS PER EXXON COMMENTS 12/8/92 MEETING	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
3/29/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.
2/23/94	REV. FOR INTERPARCEL ACCESS	D.A.K.	D.A.K.

AutoCAD FILE NAME: UGPBID.DWG





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

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*[Signature]* \_\_\_\_\_ DATE 7/30/93

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

*[Signature]* \_\_\_\_\_ DATE 7/30/93

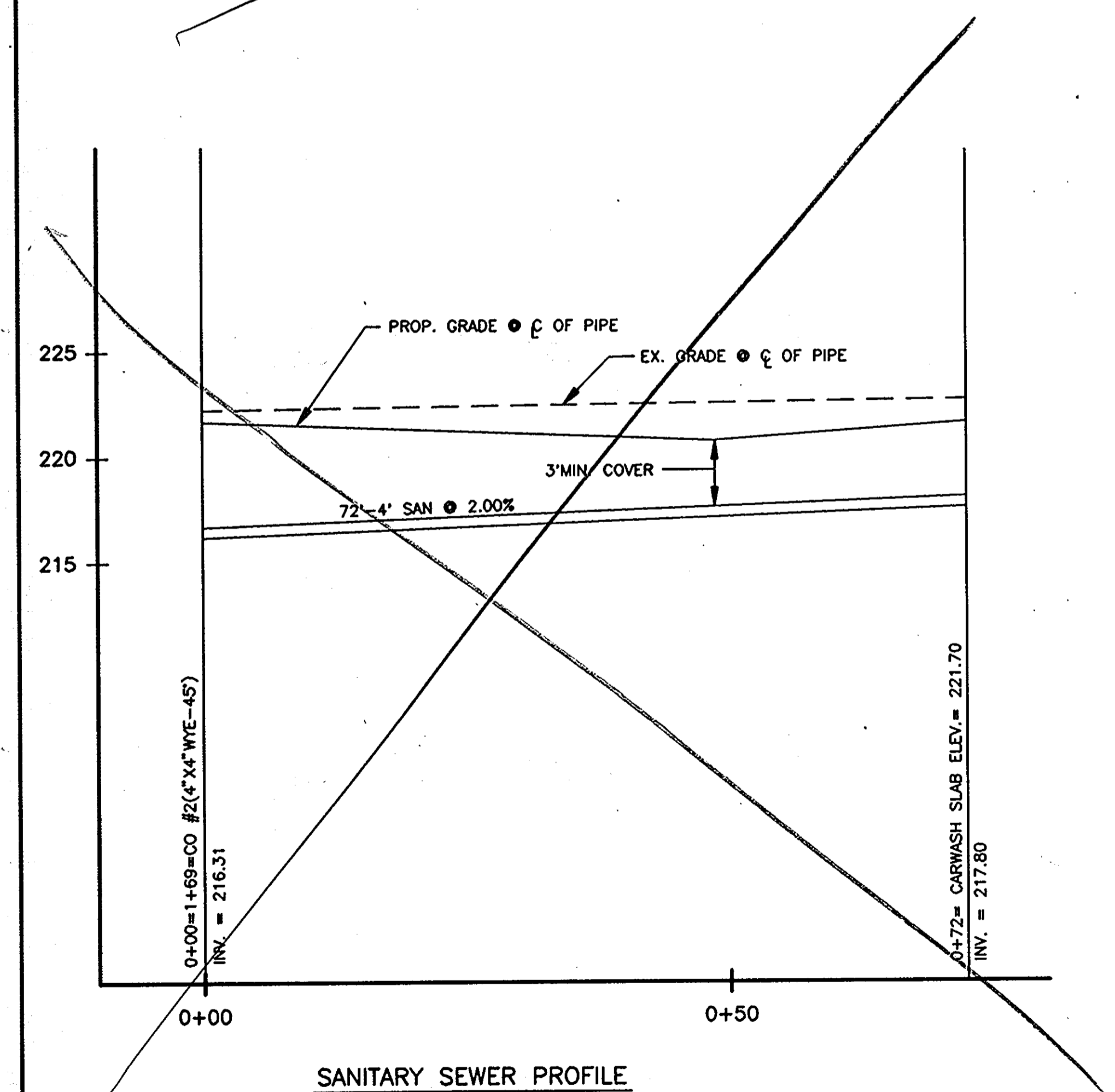
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

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

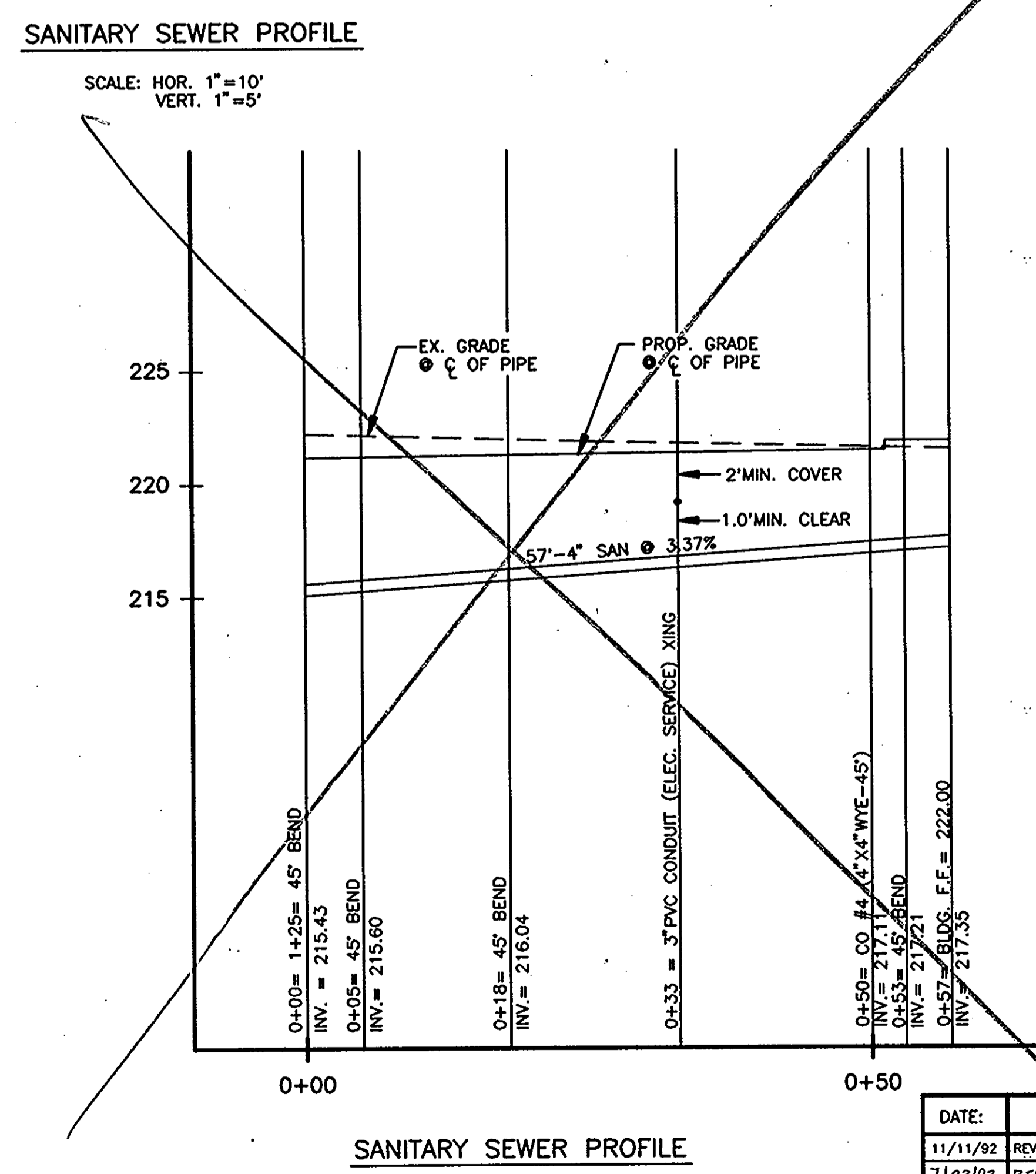
DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

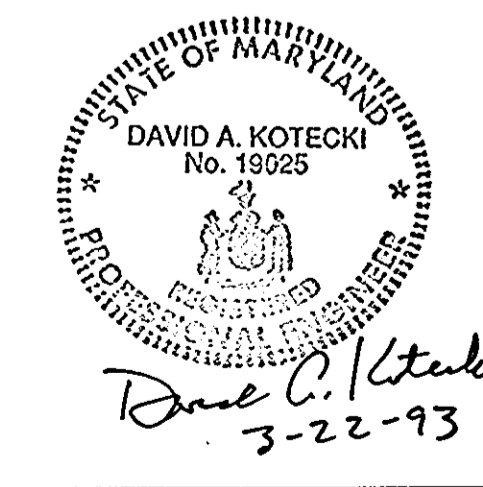
**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-22-92



**SANITARY SEWER PROFILE**  
 SCALE: HOR. 1"=10'  
 VERT. 1"=5'



**SANITARY SEWER PROFILE**  
 SCALE: HOR. 1"=10'  
 VERT. 1"=5'



NOTE:  
 SEE SHEET 6 FOR HORIZONTAL SANITARY LAYOUT.

\* THIS SHEET INCLUDED FOR PLAN & CONTRACT SHEET REFERENCES ONLY \*

**EXXON CORPORATION** Real Estate & Engineering  
 Marketing Department 1200 Smith Street Rm. 32000 Houston, Texas 77210

**SANITARY SEWER PROFILES**  
 7930 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT #6-067.03  
 LIBER 525 FOLD 183  
 TAX MAP #43 PARCEL #A PLAT #10812  
 WATER CODE 802 SEWER CO. 336000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: 91-4554-2  
 RAS NO.: 2-6427  
 DWG NO.: 2-6427.7

engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

Designed H.A.C. Date 09-20-92 Project No. 91M-4554  
 Checked D.A.K. Scale 1"=20' Sheet No. 7 OF 14

SHAK CONSULTANTS, INC.

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBDIVISION REVIEW COMMENTS	H.A.C.	D.A.K.
1/23/93	REV. AS PER PLANNING & ZONING DEPT. COMMENTS	E.C.C.	M.A.

AutoCAD FILE NAME: 4554PRO1.DWG

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

*James Byrnes* 7-22-93  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James Byrnes* 7/30/93  
 DIRECTOR DATE

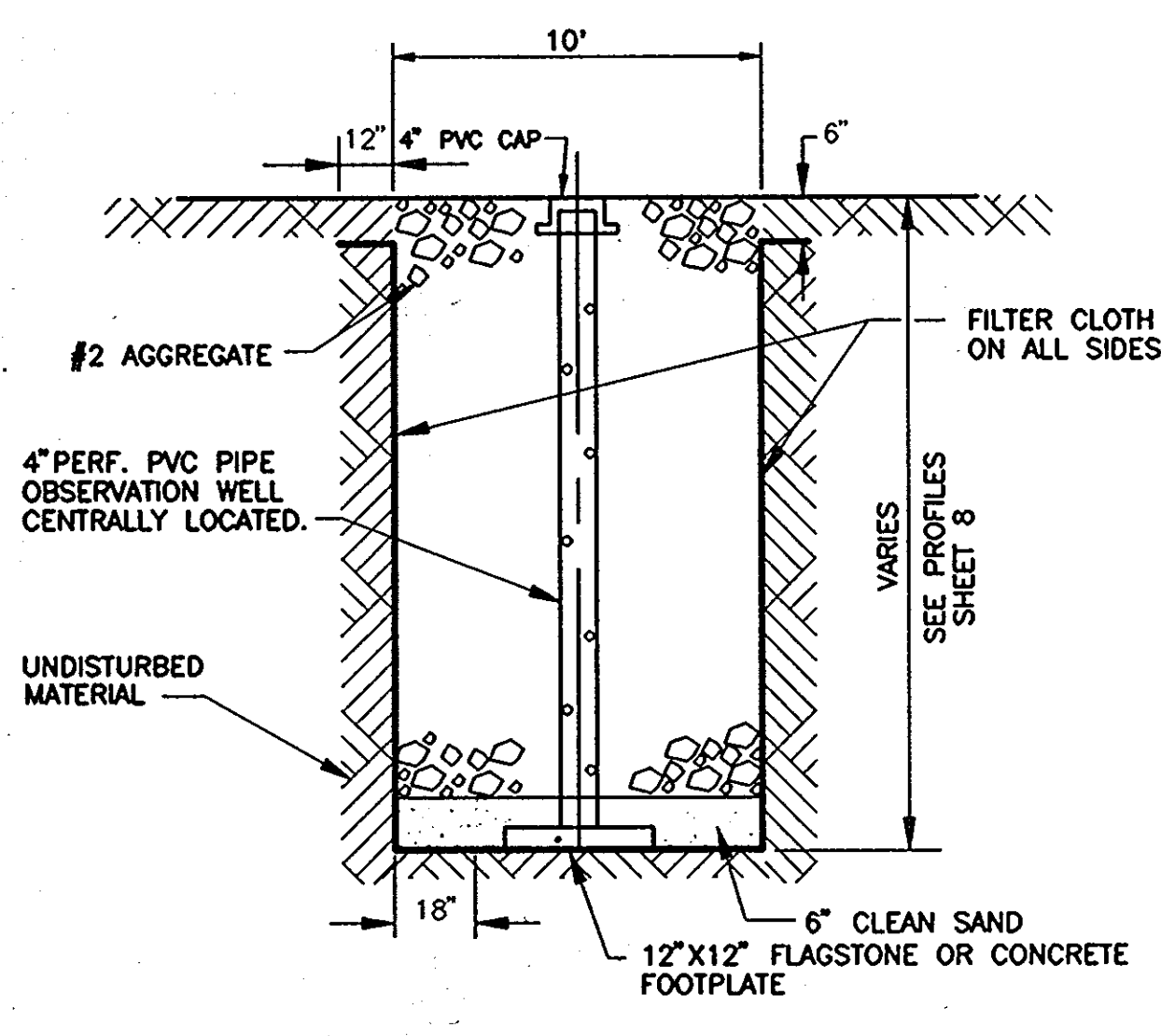
*Richard Blood* 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

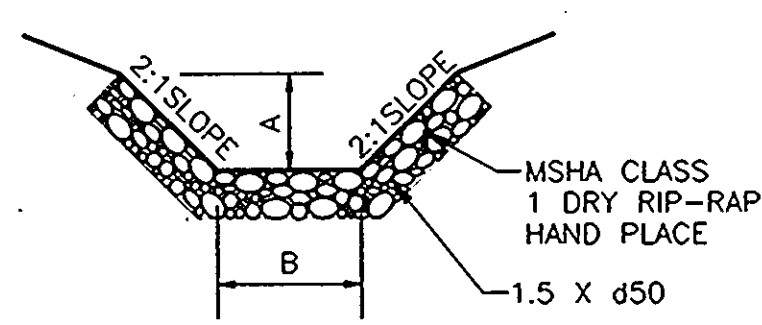
*James Byrnes* 6/9/93  
 DIRECTOR DATE

*William E. Ryan* 5-6-93  
 CHIEF, BUREAU OF ENGINEERING DATE

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 12-22-92



**INFILTRATION TRENCH OBSERVATION WELL DETAIL**  
 NOT TO SCALE

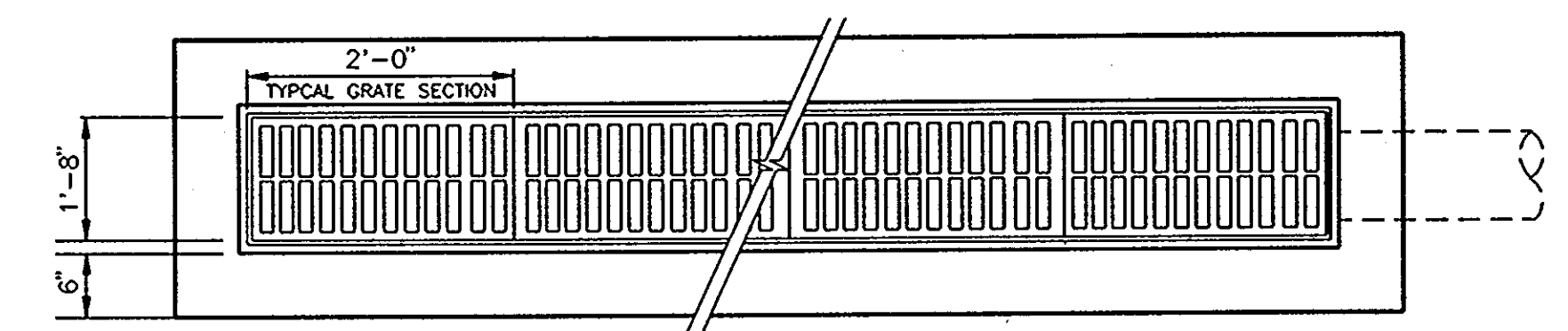


**TYPICAL OUTLET DITCH**  
 NOT TO SCALE

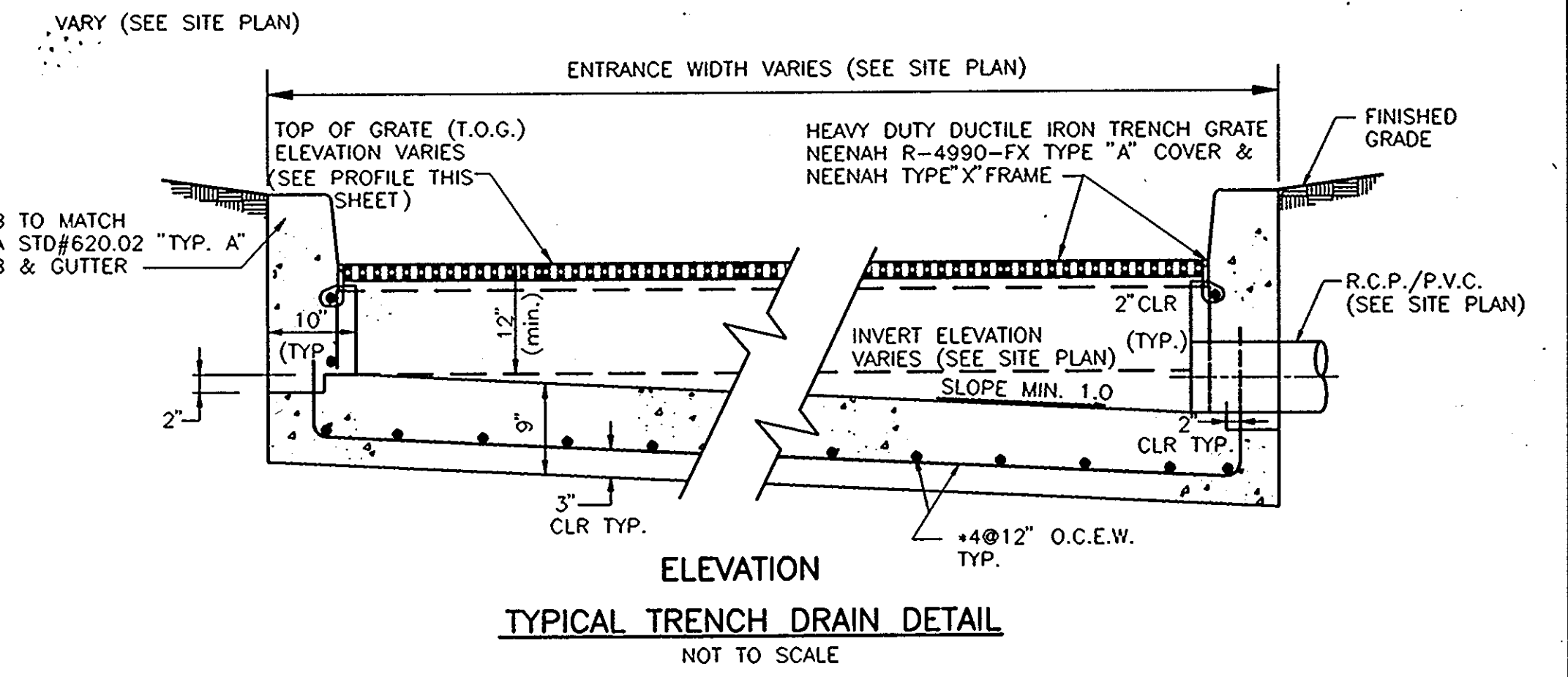
CROSS SECTION DESIGNATION	TYPE OF DITCH LINING	A (FT.)	B (FT.)	SLOPE %	D CAP. (C.F.S.)	O <sub>2</sub> ACTUAL (C.F.S.)	VEL. (F.P.S.)	N
STR #1	RIP-RAP	1	5	1.00	28	1.65	1.60	0.03

**SEQUENCE OF INFILTRATION TRENCH CONSTRUCTION**

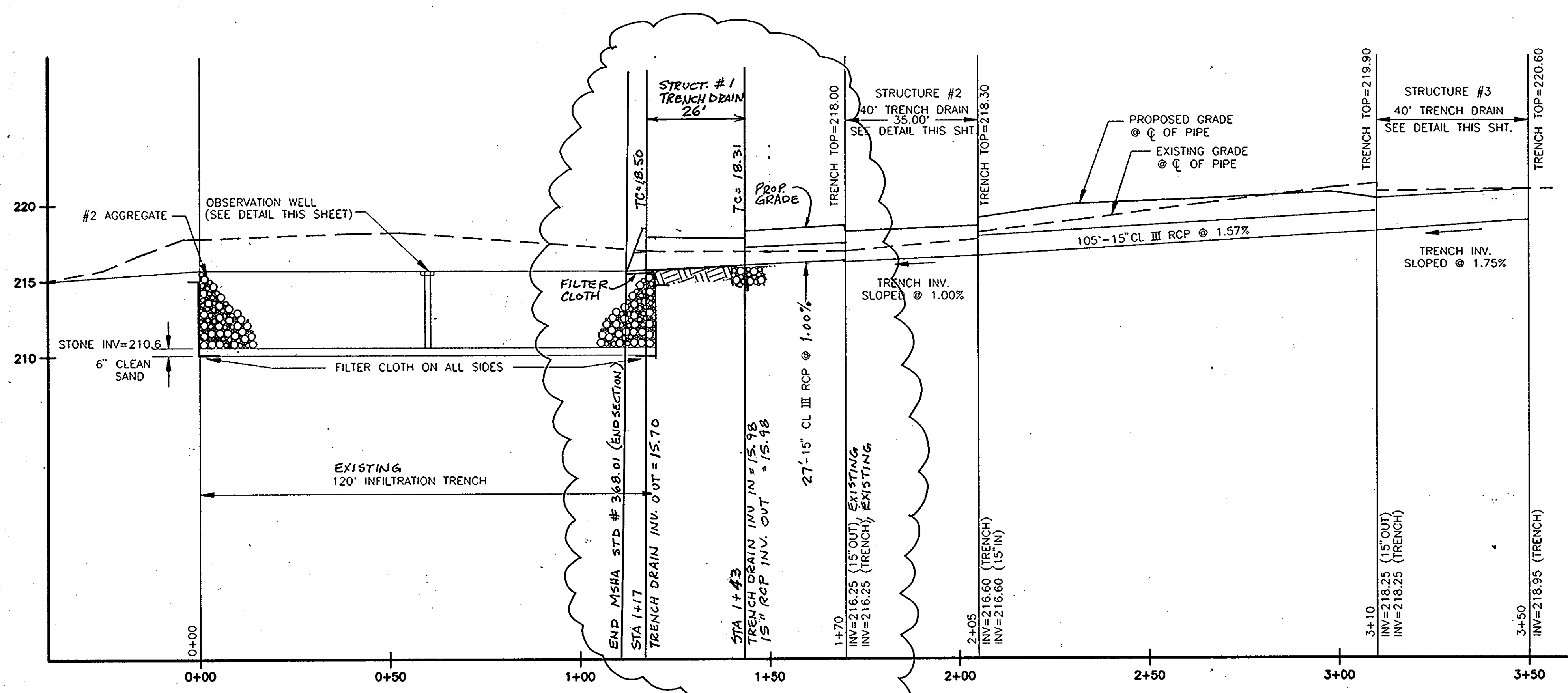
1. KEEP RUBBER TIRE & VEHICULAR TRAFFIC AWAY FROM TRENCH LOCATIONS, BY FLAGGING THEIR PERIMETERS.
2. UPON EXCAVATION OF TRENCH, ALL SIDES AND BOTTOMS TO BE RAKED & TILLED TO KEEP THEM FROM CLOGGING.
3. INSTALL FILTER CLOTH ALONG SIDES & TUCK INTO TOP AND BOTTOM OF TRENCH. SEE DETAIL THIS SHEET.
4. INSTALL OBSERVATION WELL AND 6" CLEAN SAND LAYER.
5. INSTALL CLEAN #2 STONE AGGREGATE TO PLAN ELEVATION.



NOTE:  
 PIPE INLET & OUTLET LOCATION MAY

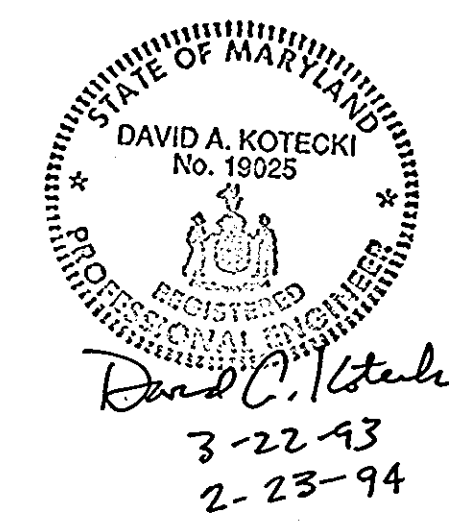


**TYPICAL TRENCH DRAIN DETAIL**  
 NOT TO SCALE



**STORM DRAIN PROFILE**

SCALE: HOR. 1"=20'  
 VERT. 1"=5'



NOTE:  
 1. SEE SHEET 6 FOR HORIZONTAL STORM SEWER LAYOUT.

<b>EXON CORPORATION</b> Real Estate & Engineering		PROJECT NO.: 91M-4554
Marketing Department 1200 Smith Street Rm.32000 Houston, Texas 77210		DISK NO.: 91M-4554-2
<b>STORM SEWER PROFILES &amp; COMPUTATIONS</b>		RAS NO.: 2-6427
7930 WASHINGTON BOULEVARD ELECTION DISTRICT No. 6 CENSUS TRACT #606703 LIBER 525 FOLIO 183 TAX MAP #43 PARCEL #A PLAT #10812 WATER CODE 802 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		DWG NO.: 2-6427,8
DRAWN BY: Gov.	engineers project management planners	Designed H.A.C. D.A.K.
30 west gude suite 120 rockville maryland 20850		Date Scale
p.o. box 10313 rockville 20849-0313 phone 301 294 6390		09-15-92 1"=20'
SHAK CONSULTANTS, INC.		Project No. Sheet No.
		91M-4554 8 OF 14



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER *David Boyle* 7-22-93 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *James Smith* 7/20/93 DATE

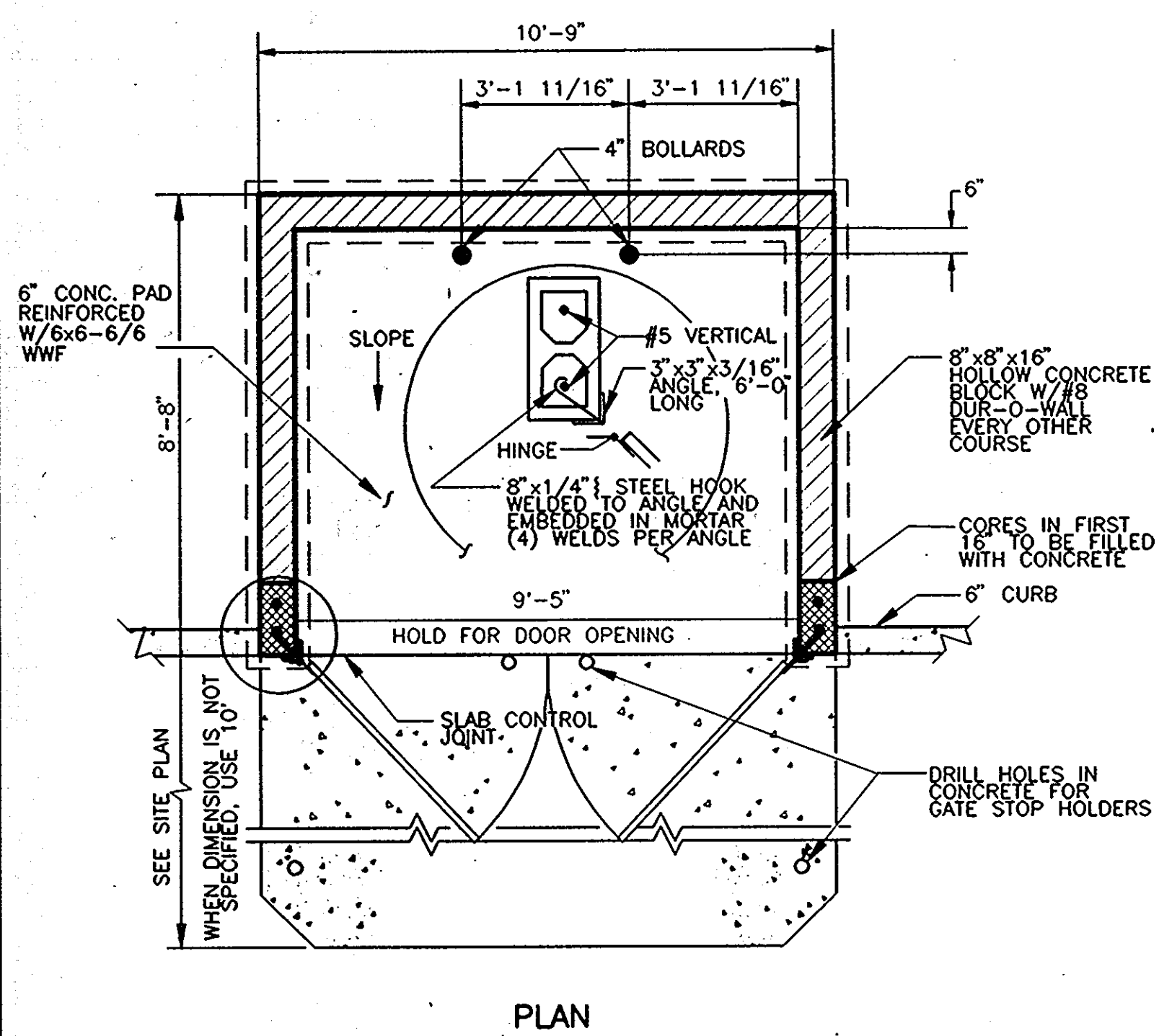
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *Richard Blum* 7/30/93 DATE

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

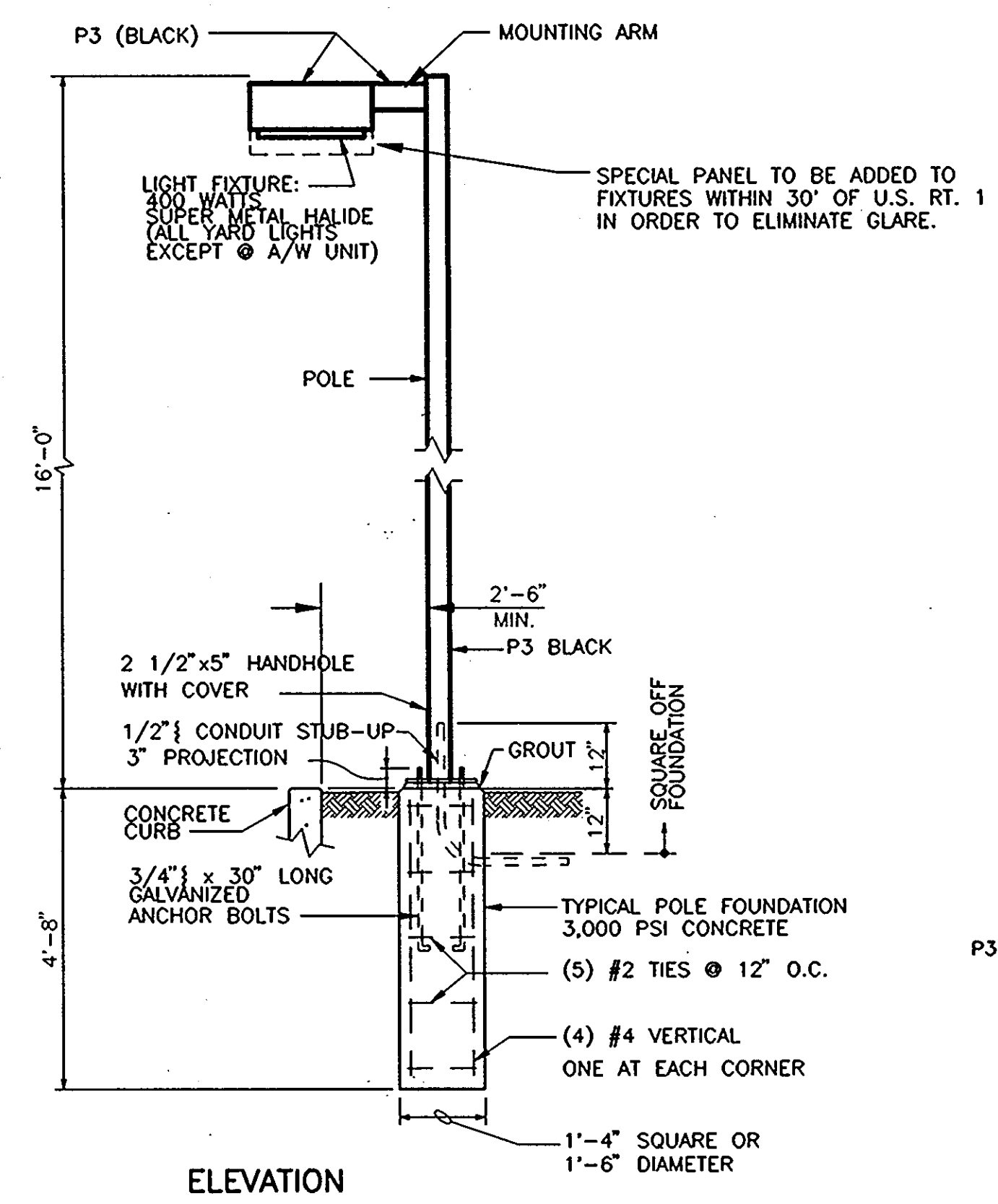
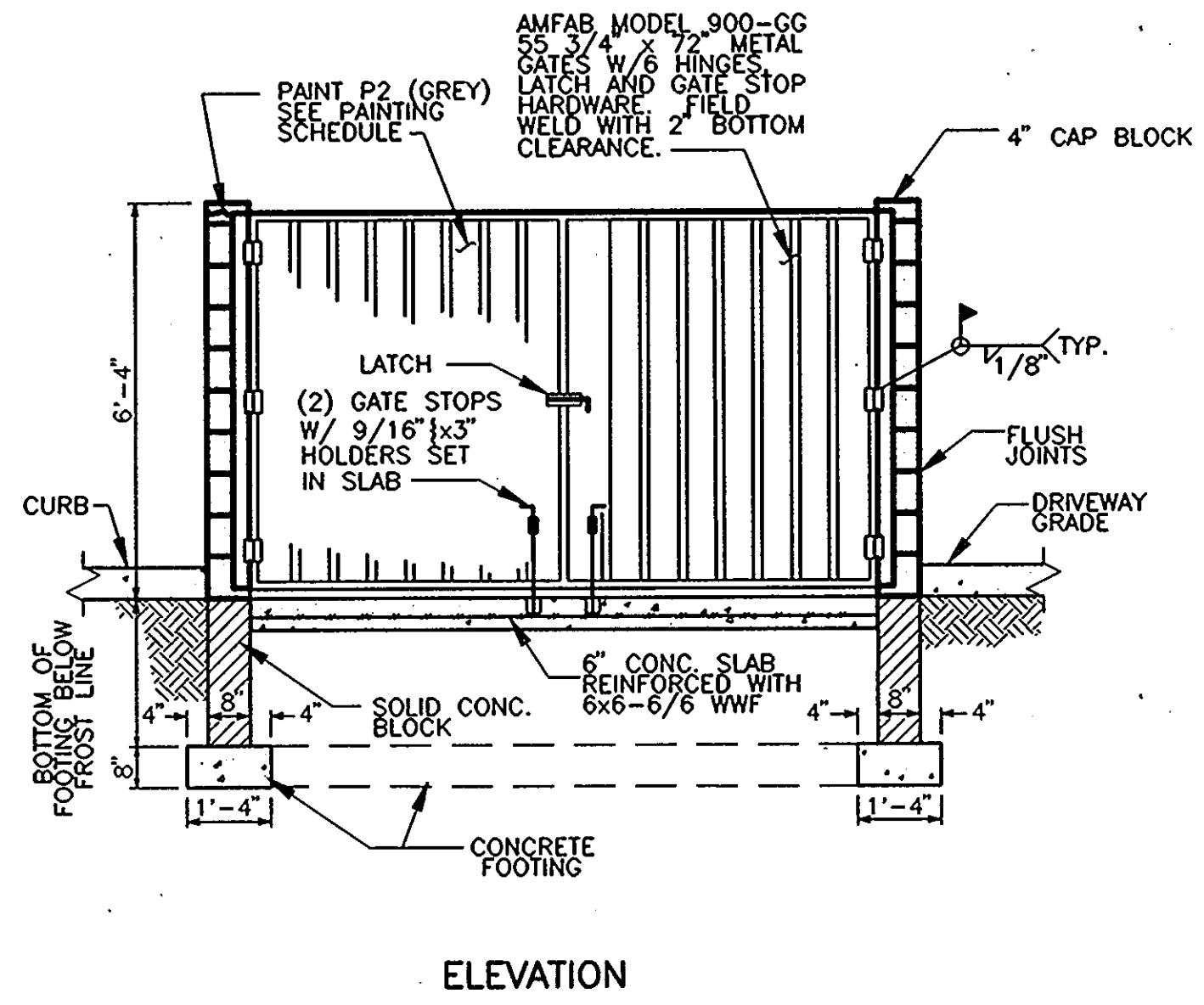
DIRECTOR *James P. Blum* 8/1/93 DATE

CHIEF, BUREAU OF ENGINEERING *James P. Blum* 5-6-93 DATE

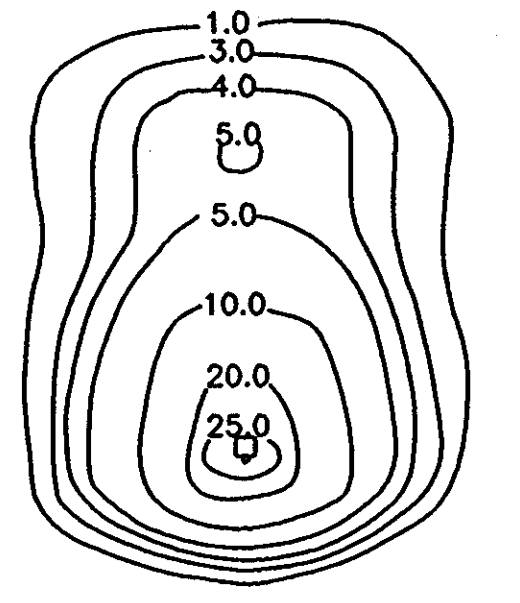
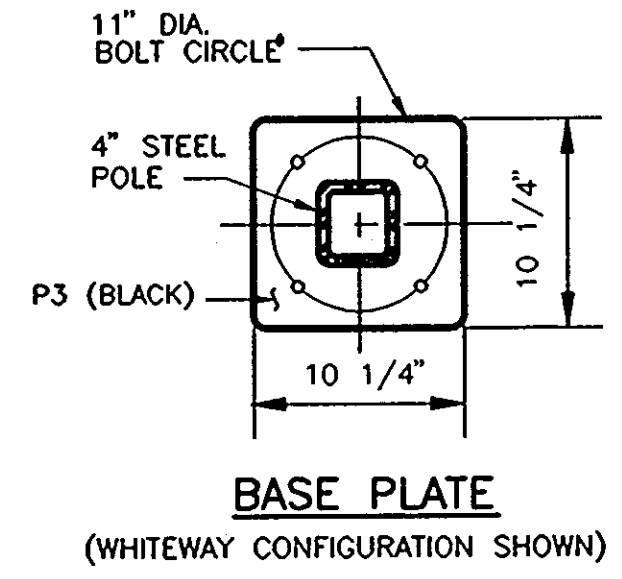
**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
 DATE 12-22-92



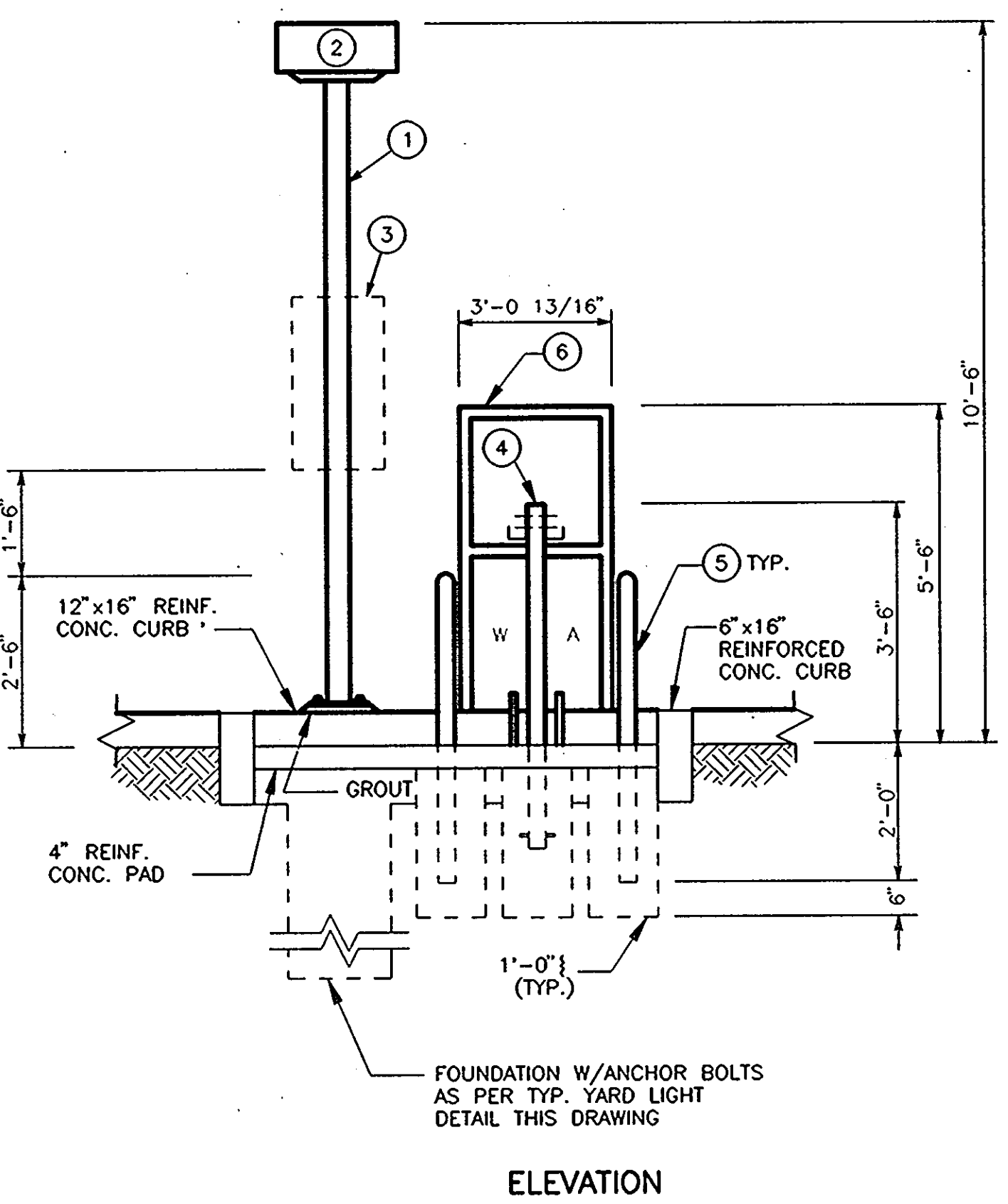
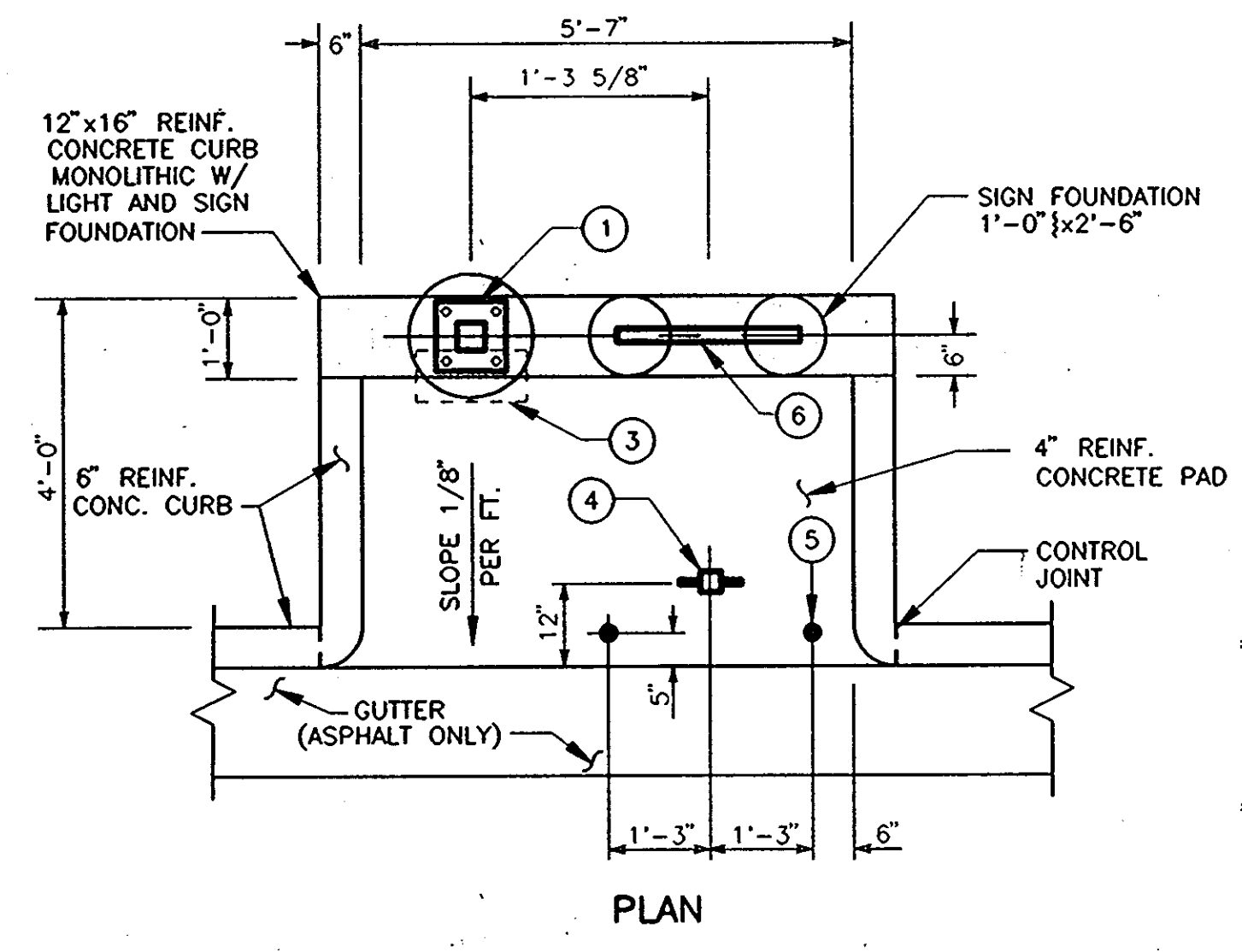
**TRASH ENCLOSURE DETAIL**  
 NOT TO SCALE



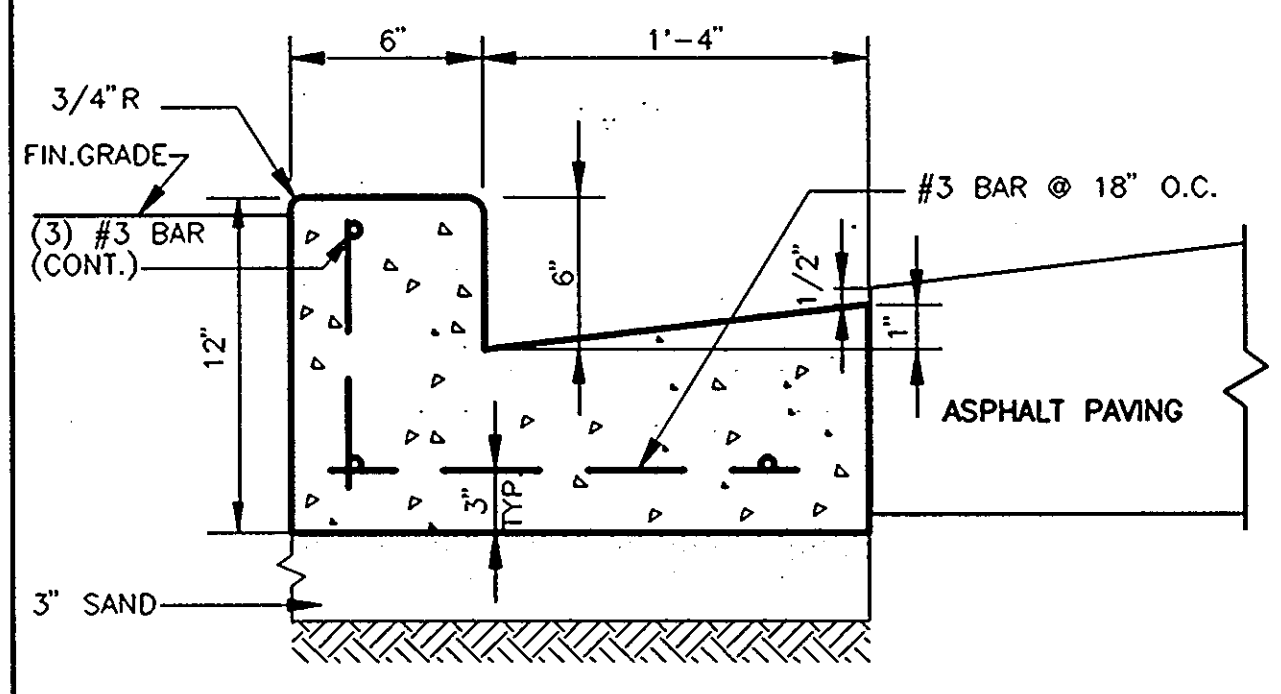
**TYPICAL YARD LIGHT DETAIL**  
 NOT TO SCALE  
 FURNISHED BY EXXON, INSTALLED BY G.C.: LIGHT FIXTURE, MOUNTING ARM, POLE, ANCHOR BOLTS, NUTS, AND WASHER. ALL OTHER MATERIALS FURNISHED AND INSTALLED BY G.C.



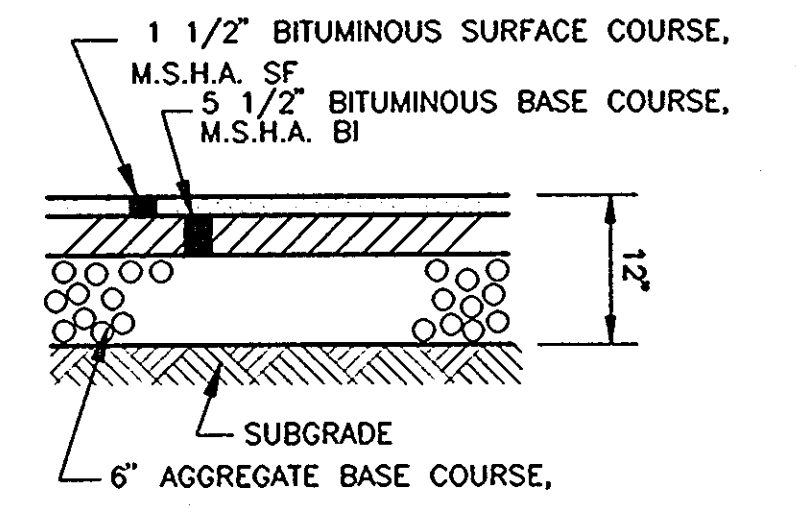
**FOOTCANDLE PATTERN**  
 SCALE: 1"=20'



**AIR AND WATER DETAIL**  
 NOT TO SCALE



**CONCRETE CURB & GUTTER DETAIL**  
 NOT TO SCALE



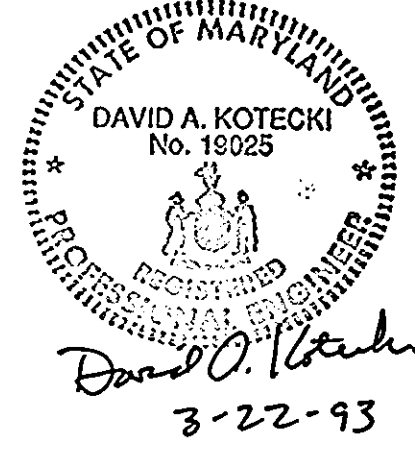
NOTE: ASPHALT PAVEMENT CONSTRUCTION TO BE ACCORDING TO SPECIFICATIONS OF DRAWING NO. 80025 SHEET 1.

**SITE ASPHALT PAVING DETAIL**  
 NOT TO SCALE

MK	DESCRIPTION	FURNISHED BY	INSTALLED BY
①	LIGHT POLE (REF. TYPICAL YARD LIGHT DETAIL)	EXXON	G.C.
②	LIGHT FIXTURE (REF. TYPICAL YARD LIGHT DETAIL)	EXXON	G.C.
③	TOWEL DISPENSER - MANUF. BY D.C.I. (OPTIONAL)	EXXON	G.C.
④	AIR/WATER STAND W/HOOKS MANUF. BY ELKAY	EXXON	G.C.
⑤	BOLLARD - 3" DIA. SCH. 40 STEEL PIPE FILLED W/CONCRETE	G.C.	G.C.
⑥	AIR/WATER SIGN (FACTORY ASSEMBLED)	EXXON	G.C.

NOTE: CONCRETE 3,000 PSI @ 30 DAYS.

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.



**EXXON CORPORATION** Real Estate & Engineering  
 Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770

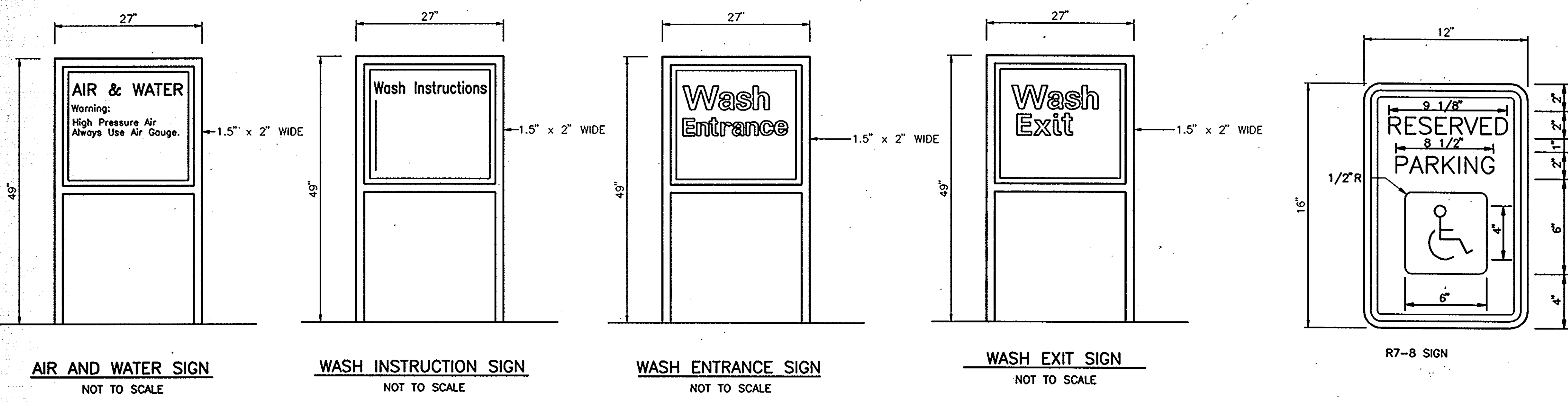
**SITE DETAILS**  
 7930 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT # 606703  
 LIBER 525 FOLIO 183  
 TAX MAP #43 PARCEL #A. PLAT #10812  
 WATER CODE 802 SEWER CO. 3350000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: NONE  
 RAS NO.: 2-6427  
 DWG NO.: BIDSD.DWG

engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 284 6380

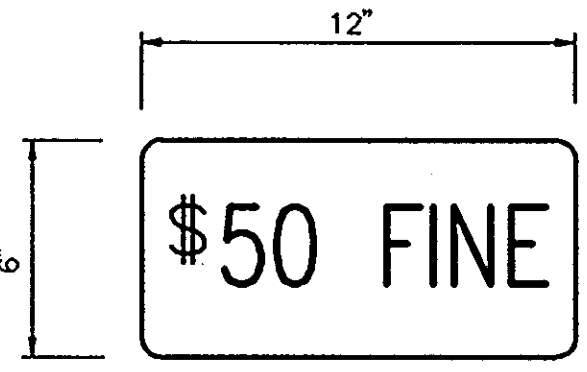
Designed H.A.C. Date 09-20-92 Project No. 91M-4554  
 Checked D.A.K. Scale 1"=20' Sheet No. 9 OF 14

SHAK CONSULTANTS, INC.



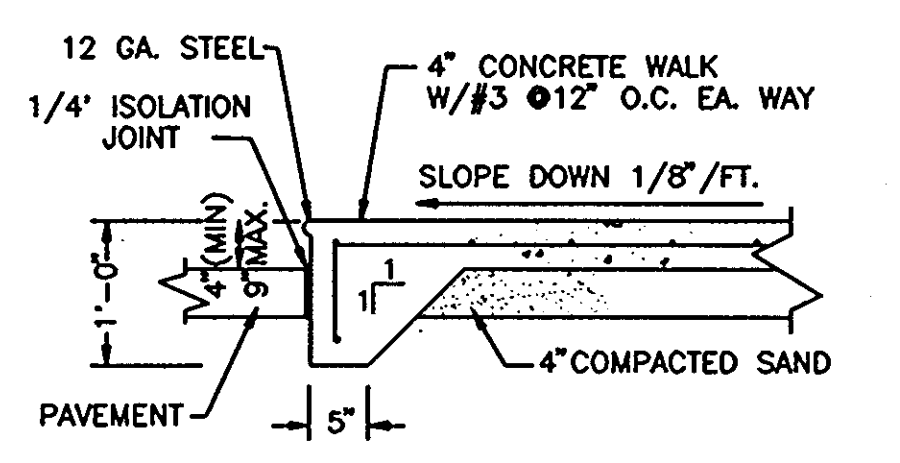
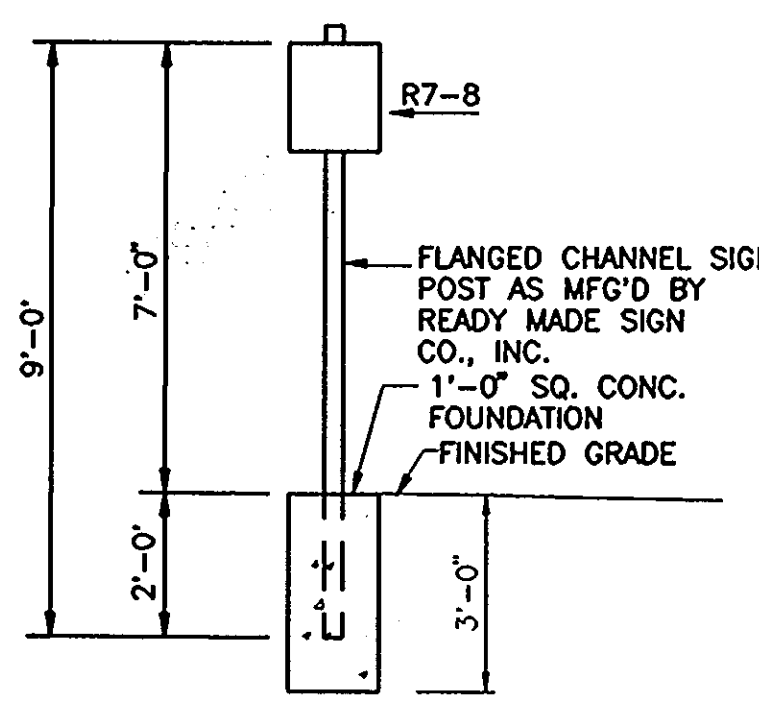
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: *[Signature]* DATE: 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR: *[Signature]* DATE: 6/9/93  
 CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 5-6-93

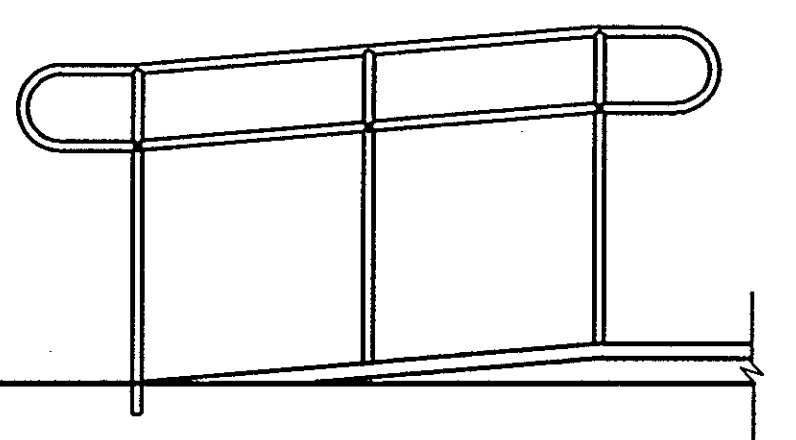
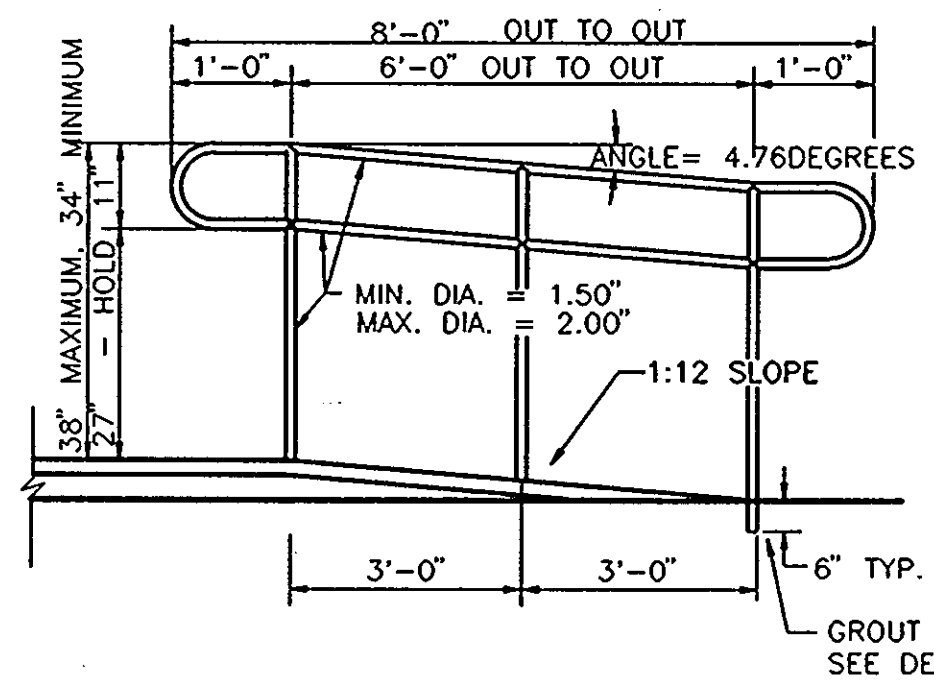


NOTE:  
 1.) A \$50.00 FINE SIGN (ALUMINUM BLANK 6"x12"x0.080in. THICK) WITH 2 SINGLE POST MOUNTING HOLES. THE FINE SIGN SHALL BE MOUNTED UNDERNEATH THE BELOW R7-8 RESERVED PARKING SIGN.  
 2.) REFER TO THE STANDARD HOWARD CO. HANDICAPPED PARKING SIGN FOR MORE SPECIFICATIONS.

**HANDICAPPED PARKING SIGN DETAIL**  
NOT TO SCALE



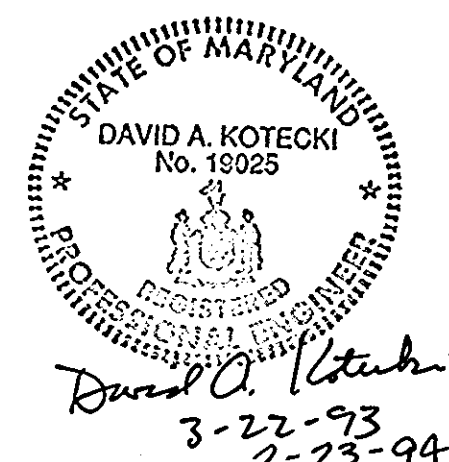
CONC. WALK SECTION AT BLDG.  
NOT TO SCALE



SPECIFICATIONS:  
 1. MATERIALS - 1.25" OR 1.50" I.D. SCH. 40 ALUMINUM OR STEEL PIPE  
 2. FINISH - NATURAL OR HARDCOAT BLACK ANODIZED OR SEMI GLOSS, BLACK PAINTED.  
 3. ALL WELDS SHALL BE GROUND SMOOTH.  
 4. APPROVED MANUFACTURERS - LOCAL FABRICATION OR CRANEYOVER CORP. (818) 442-1524 MODEL NO. C4300 OR MOULTRIE MFG. CO. (800) 841-8674 WESRAIL SYSTEM.

GROUT POCKET DETAIL

**HANDICAPPED RAMP & HANDRAIL DETAIL**  
NOT TO SCALE



<b>EXON CORPORATION</b> Real Estate & Engineering		PROJECT NO.: 91M-4554
Marketing Department 1200 Smith Street Rm. 32000 Houston, Texas 77210		DISK NO.: 91-4554-10
7930 WASHINGTON BOULEVARD ELECTRON DISTRICT No. 6 CENSUS TRACT #006703 LIBER 525 FOLIO 185 TAX MAP #43 PARCEL #A PLAT #10812 WATER CODE B02 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		RAS NO.: 2-6427
DRAWN BY: Cav.		DWG NO.: 2-6427.10

TR 55 GRAPHICAL PEAK DISCHARGE METHOD  
 EXXON GAS STATION 7930 WASHINGTON BLVD.  
 FOR PREDEVELOPMENT CONDITIONS ONSITE ONLY.

DISK FILE: C:\PONDPACK\PRE.GPD

DRAINAGE AREA (ACRES)	0.8	→	0.0013 SQ.MI.
RUNOFF CURVE NUMBER (CN)	0.8		
TIME OF CONCENTRATION (HRS)	0.1		
RAINFALL DISTRIBUTION (TYPE)	II		
POND AND SWAMP AREAS (%)	0		0.0 ACRES

FREQUENCY (YEARS)	2	10	100
RAINFALL, P. 24-HR (IN)	3.2	5.1	7.2
INITIAL ABSTRACTION, I <sub>a</sub> (IN)	0.198	0.198	0.198
I <sub>a</sub> /p RATIO	0.062	0.039	0.027
UNIT DISCHARGE, q (CSM/IN)	1010	1010	1010
RUNOFF, Q (IN)	2.26	4.08	6.14
POND & SWAMP ADJUSTMENT FACTOR	1.00	1.00	1.00
PEAK DISCHARGE, q <sub>p</sub> (CFS)	3	5	8

SUMMARY OF COMPUTATIONS FOR QU

I <sub>a</sub> /p #1	0.100	0.100	0.100
CO #1	2.553	2.553	2.553
C1 #1	-0.615	-0.615	-0.615
C2 #1	-0.164	-0.164	-0.164
qu (CSM) #1	1009.997	1009.997	1009.997
I <sub>a</sub> /p #2	0.100	0.100	0.100
CO #2	2.553	2.553	2.553
C1 #2	-0.615	-0.615	-0.615
C2 #2	-0.164	-0.164	-0.164
qu (CSM) #2	1009.997	1009.997	1009.997
qu (CSM)	1010	1010	1010

\* INTERPOLATED FOR COMPUTED I<sub>a</sub>/P RATIO (BETWEEN I<sub>a</sub>/P #1 & I<sub>a</sub>/P #2)  
 IF COMPUTED I<sub>a</sub>/P EXCEEDS I<sub>a</sub>/P LIMITS, BOUNDING LIMIT FOR I<sub>a</sub>/P IS USED.  
 LOG(qu) = CO + (C1 \* LOG(I<sub>a</sub>)) + (C2 \* (LOG(I<sub>a</sub>)))  
 q<sub>p</sub> (CFS) = qu(CSM) \* AREA(SQ.MI.) \* Q(IN.) \* (POND & SWAMP ADJ.)

TR 55 GRAPHICAL PEAK DISCHARGE METHOD  
 EXXON GAS STATION 7930 WASHINGTON BLVD.  
 FOR POSTDEVELOPMENT CONDITIONS ONSITE ONLY.

DISK FILE: C:\PONDPACK\POST.GPD

DRAINAGE AREA (ACRES)	0.8	→	0.0013 SQ.MI.
RUNOFF CURVE NUMBER (CN)	97		
TIME OF CONCENTRATION (HRS)	0.1		
RAINFALL DISTRIBUTION (TYPE)	II		
POND AND SWAMP AREAS (%)	0		0.0 ACRES

FREQUENCY (YEARS)	2	10	100
RAINFALL, P. 24-HR (IN)	3.2	5.1	7.2
INITIAL ABSTRACTION, I <sub>a</sub> (IN)	0.062	0.062	0.062
I <sub>a</sub> /p RATIO	0.019	0.020	0.009
UNIT DISCHARGE, q (CSM/IN)	1010	1010	1010
RUNOFF, Q (IN)	2.86	4.75	6.84
POND & SWAMP ADJUSTMENT FACTOR	1.00	1.00	1.00
PEAK DISCHARGE, q <sub>p</sub> (CFS)	4	6	9

SUMMARY OF COMPUTATIONS FOR QU

I <sub>a</sub> /p #1	0.100	0.100	0.100
CO #1	2.553	2.553	2.553
C1 #1	-0.615	-0.615	-0.615
C2 #1	-0.164	-0.164	-0.164
qu (CSM) #1	1009.997	1009.997	1009.997
I <sub>a</sub> /p #2	0.100	0.100	0.100
CO #2	2.553	2.553	2.553
C1 #2	-0.615	-0.615	-0.615
C2 #2	-0.164	-0.164	-0.164
qu (CSM) #2	1009.997	1009.997	1009.997
qu (CSM)	1010	1010	1010

\* INTERPOLATED FOR COMPUTED I<sub>a</sub>/P RATIO (BETWEEN I<sub>a</sub>/P #1 & I<sub>a</sub>/P #2)  
 IF COMPUTED I<sub>a</sub>/P EXCEEDS I<sub>a</sub>/P LIMITS, BOUNDING LIMIT FOR I<sub>a</sub>/P IS USED.  
 LOG(qu) = CO + (C1 \* LOG(I<sub>a</sub>)) + (C2 \* (LOG(I<sub>a</sub>)))  
 q<sub>p</sub> (CFS) = qu(CSM) \* AREA(SQ.MI.) \* Q(IN.) \* (POND & SWAMP ADJ.)

**STORM DRAIN INLET COMPUTATIONS**

INLET NO.	AREA (AC.)	C	I <sub>a</sub> (min)	I <sub>a</sub> (max)	Q (cfs)	STREET CROSS SLOPE	GUTTER CROSS SLOPE	GUTTER WIDTH (IN)	LENGTH REQ.	LENGTH PROVIDED	SPREAD (FT)	PICKUP %	BYPASS	INLET NO.	REMARKS
3	0.13	0.85	5	3.2	0.35	-	-	-	-	40	-	100	0	-	TRENCH DRAIN-SEE DETAIL SHT.8
2	0.46	0.87	5	3.2	1.28	-	-	-	35	-	100	0	-	-	TRENCH DRAIN-SEE DETAIL SHT.8
1	0.02	0.90	5	3.2	0.06	-	-	-	2.6	-	100	0	-	-	TRENCH DRAIN-SEE DETAIL SHT.8

**INFILTRATION TRENCH COMPUTATIONS**

TRENCH	IMP. AREA (ft <sup>2</sup> )	STONE VOID RATIO	STORAGE REQUIRED (ft <sup>3</sup> )	TRENCH DIMENSIONS (ft)	STORAGE PROVIDED (ft <sup>3</sup> )
A	35,696	0.40	3,718	10 x 120 x 5	6,000 ft <sup>3</sup>

STORAGE REQUIRED (ft<sup>3</sup>) = IMPERVIOUS AREA \* 2 \* I \* X \* 0.4  
 STORAGE PROVIDED (ft<sup>3</sup>) = W \* X \* L \* D

**INFILTRATION TRENCH COMPUTATIONS**

$AQ_u = Q_u - (q_{ub}/q_{uo})Q_b$   
 $A_c = AQ_u \cdot Au / V_{dc} + ft \cdot P$   
 $d_{max} = ft_s / V_r$        $d_{max} = 96 ft.$   
 $ft_s = 6.4 in/hr.$       will provide  $d = 5 ft.$   
 $V_r = 72 hrs.$   
 $T = 2 HRS$   
 (\* FROM INFILTRATION TEST PERFORMED BY EBA ENGINEERING INC.)

$2 YR. AQ_u = 2.86 - (1010/1010)(2.26) = 0.6$   
 $10 YR. AQ_u = 4.75 - (1010/1010)(4.08) = 0.67$   
 $2 YR. A_t = (0.6/12) 0.80 (43560) = 622.29 FT^2$   
 $A_t = (0.45) + (4.2) - 12$   
 $10 YR. A_t = (0.67/12) 0.80 (43560) = 736.54 FT^2$   
 $A_t = (0.45) + (4.2) - 12$

INFILTRATION TRENCH AREA PROVIDED = 1,200.00 FT<sup>2</sup>

NOTE: STANDARDS AND SPECIFICATIONS FOR INFILTRATION PRACTICES, STATE OF MARYLAND HAVE BEEN USED.

**STORM DRAIN COMPUTATIONS**

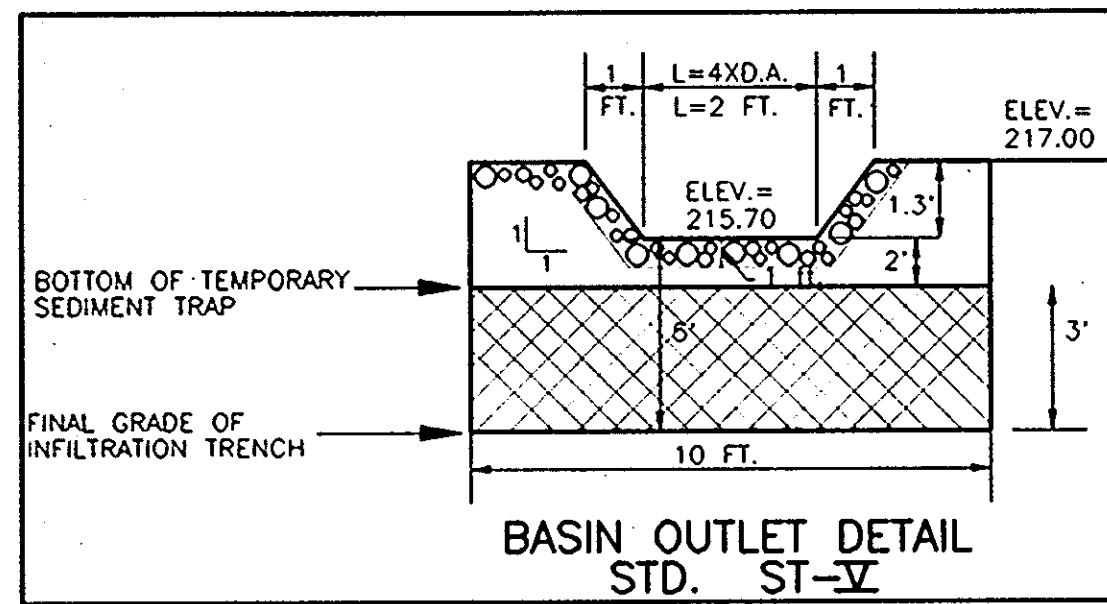
STRUCTURE	AREA	CA	I <sub>a</sub> (min)	I	Q <sub>u</sub> (cfs)	DIAM (in)	LENGTH (ft)	INVERTS	SLOPE (%)	CAP Q (cfs)	VEL (fps)
FROM	TO	AC.	C	INCR.	TOTAL			UPPER	LOWER		
3	2	0.13	0.85	0.11	0.11	5	5.1	-	0.56	15	105
2	1	0.46	0.87	0.40	0.51	5	5.1	2.04	2.60	15	2.7
											218.25
											216.60
											1.57
											8.1
											3.79

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBDIVISION REVIEW COMMENTS	H.A.C.	DAK.
7/23/93	REV. AS PER PLANNING & ZONING E.C.C. M.A.		
2/23/94	REV. FOR INTERPARCEL ACCESS	DAK	DAK

**SCi** SHAK CONSULTANTS, INC.  
 engineers project management planners  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

Designed	H.A.C.	Checked	D.A.K.
Date	09-20-92	Scale	AS SHOWN
Project No.	91M-4554	Sheet No.	10 OF 14





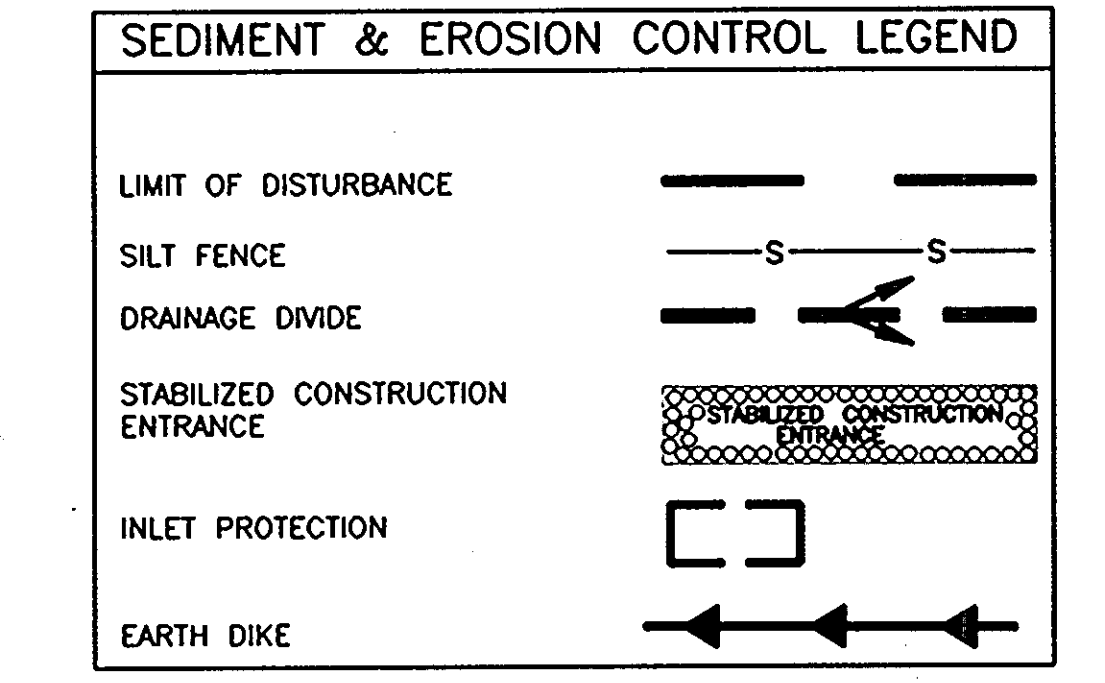
**STONE OUTLET SEDIMENT TRAP STD. DRAWING ST-V**

TRAP #1  
 TYPE OF TRAP = STANDARD STONE SEDIMENT TRAP  
 DRAINAGE AREA = 0.45 Ac.  
 STORAGE REQUIRED = 1800 FT.<sup>3</sup> X D.A. = 810 FT.<sup>3</sup>  
 OUTLET LENGTH = 4 X D.A. = 1.8 FT (2' PROVIDED)

HOLIDAY INN  
 ZONED: B-2  
 USE: HOTEL

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM: HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: [Signature] DATE: 7-22-92  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: [Signature] DATE: 7/20/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 6/9/93  
 CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 5-6-93



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

Signature of Developer: [Signature] DATE: 4-2-93  
 R.W. HILCHEY, AGENT AND ATTORNEY-IN-FACT

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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature of Engineer: [Signature] DATE: 3-22-93  
 DAVID A. KOTECKI, P.E.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
 Signature: [Signature] DATE: 1/1/93  
 S. SOIL CONSERVATION SERVICE

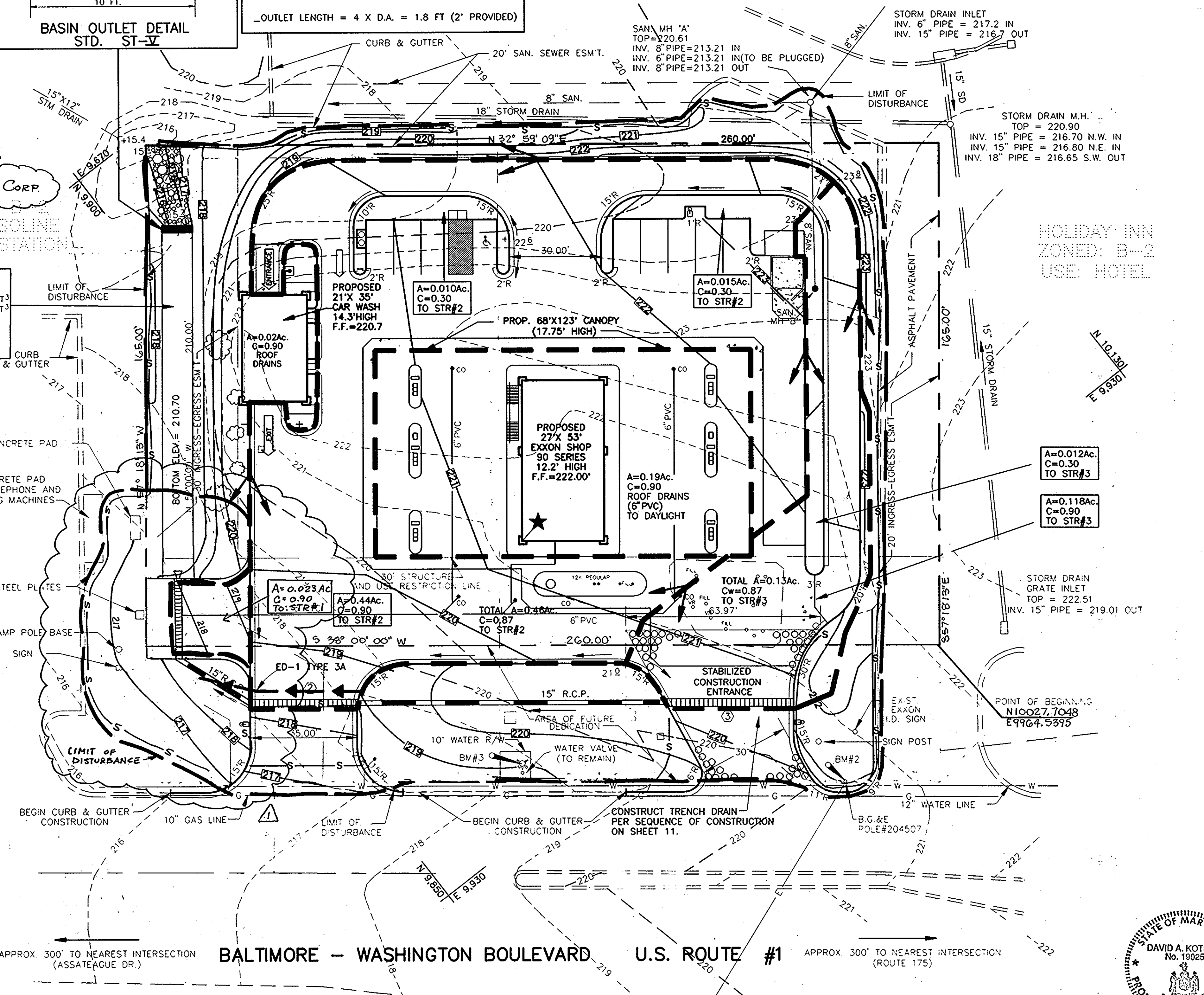
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: [Signature] DATE: 1/1/92  
 HOWARD S.C.D.

- NOTE:
- FOR SEDIMENT & EROSION CONTROL DETAILS & NOTES SEE SHEET 12.
  - CANOPY ROOF DRAINS RUN UNDERGROUND TO DAYLIGHT. SEE SHEET 6.
  - SEE SHEET 8 FOR STORM SEWER PROFILES & COMPUTATIONS.
  - TEMPORARY SEDIMENT BASIN TO BE CONVERTED TO A PERMANENT INFILTRATION TRENCH. SEE CONSTRUCTION SEQUENCE ON SHEET 12 FOR PHASING.

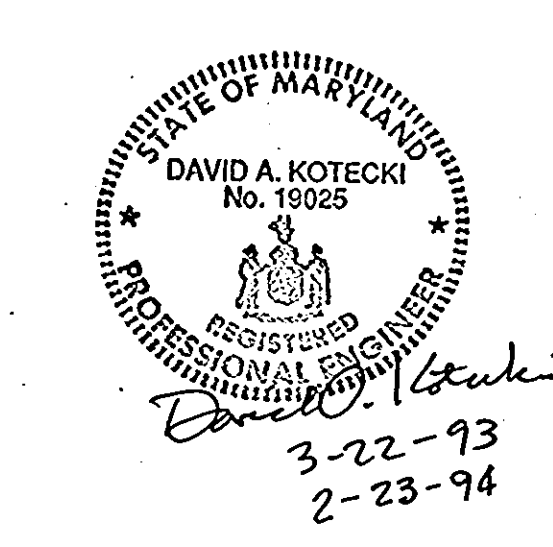
EXXON CORP.  
 USE: GASOLINE SERVICE STATION

TEMPORARY SEDIMENT BASIN  
 DRAINAGE AREA = 1.02 Ac.  
 VOLUME REQUIRED = 1836 FT.<sup>3</sup>  
 VOLUME PROVIDED = 2400 FT.<sup>3</sup>  
 BASIN DIMENSIONS: 120' X 10' X 2'  
 BOTTOM ELEV. = 213.70'  
 SEE NOTE 4



**BENCHMARK DATA**

B.M.#	DESCRIPTION	ELEV.
2	20 PENNY NAIL NE SIDE B.G.&E. POLE#204507	221.28
3	TOP OF FIRE HYDRANT	221.91



DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
1/14/93	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
3/29/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.
2/23/94	REV. FOR INTERPARCEL ACCESS	DAK	DAK

**EXXON CORPORATION** Real Estate & Engineering  
 Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770  
**SEDIMENT & EROSION CONTROL & DRAINAGE DIVIDE PLAN**  
 7330 WASHINGTON BOULEVARD  
 ELECTION DISTRICT No. 6  
 CENSUS TRACT #6067.03  
 LIBER 525 FOLIO 183  
 TAX MAP #43 PARCEL #A PLAT #10812  
 WATER CODE 802 SEWER CO. 3350000  
 HOWARD COUNTY, MARYLAND

PROJECT NO.: 91M-4554  
 DISK NO.: NONE  
 RAS NO.: 2-6427  
 DWG NO.: BIDSEC.DWG

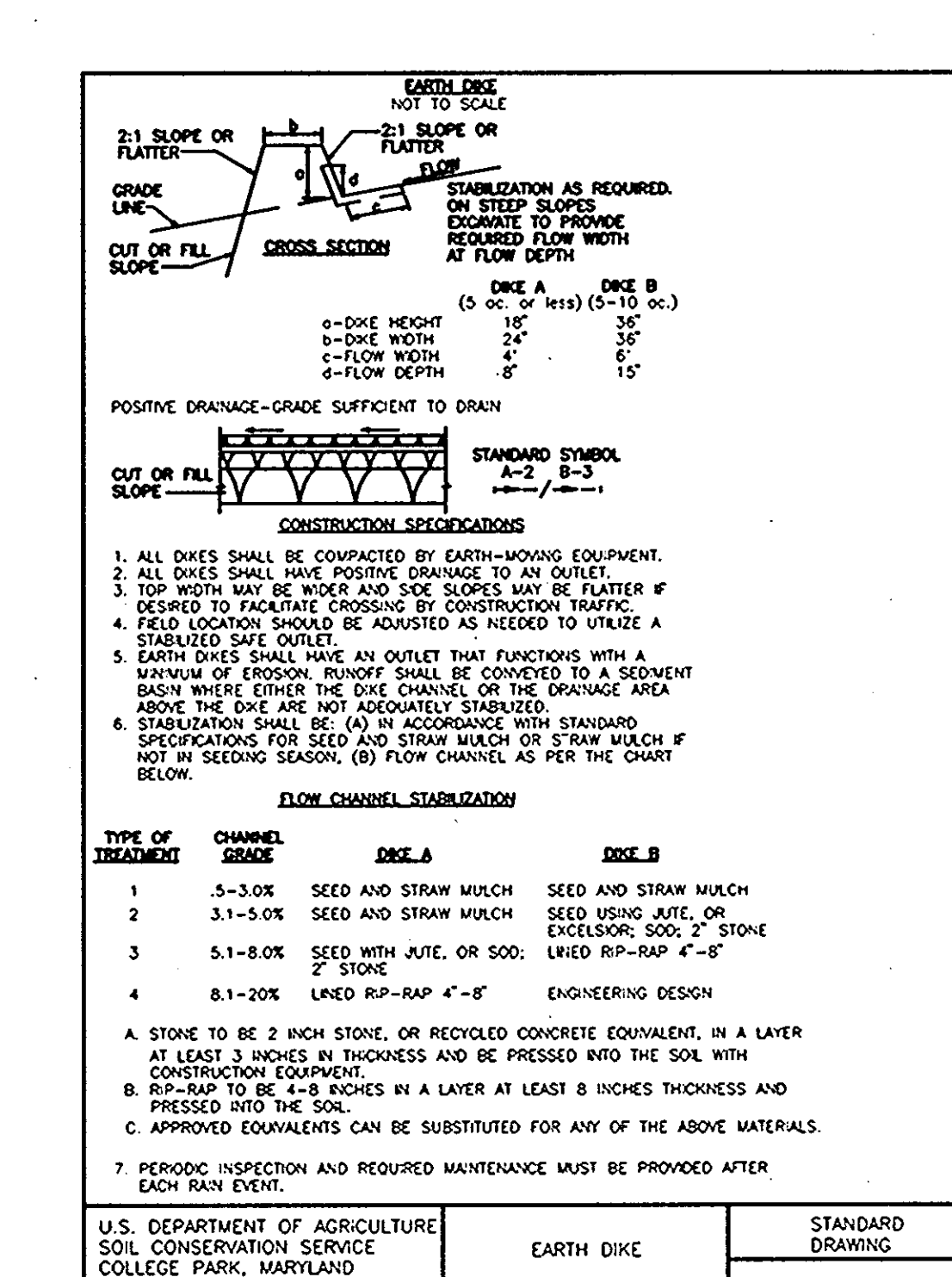
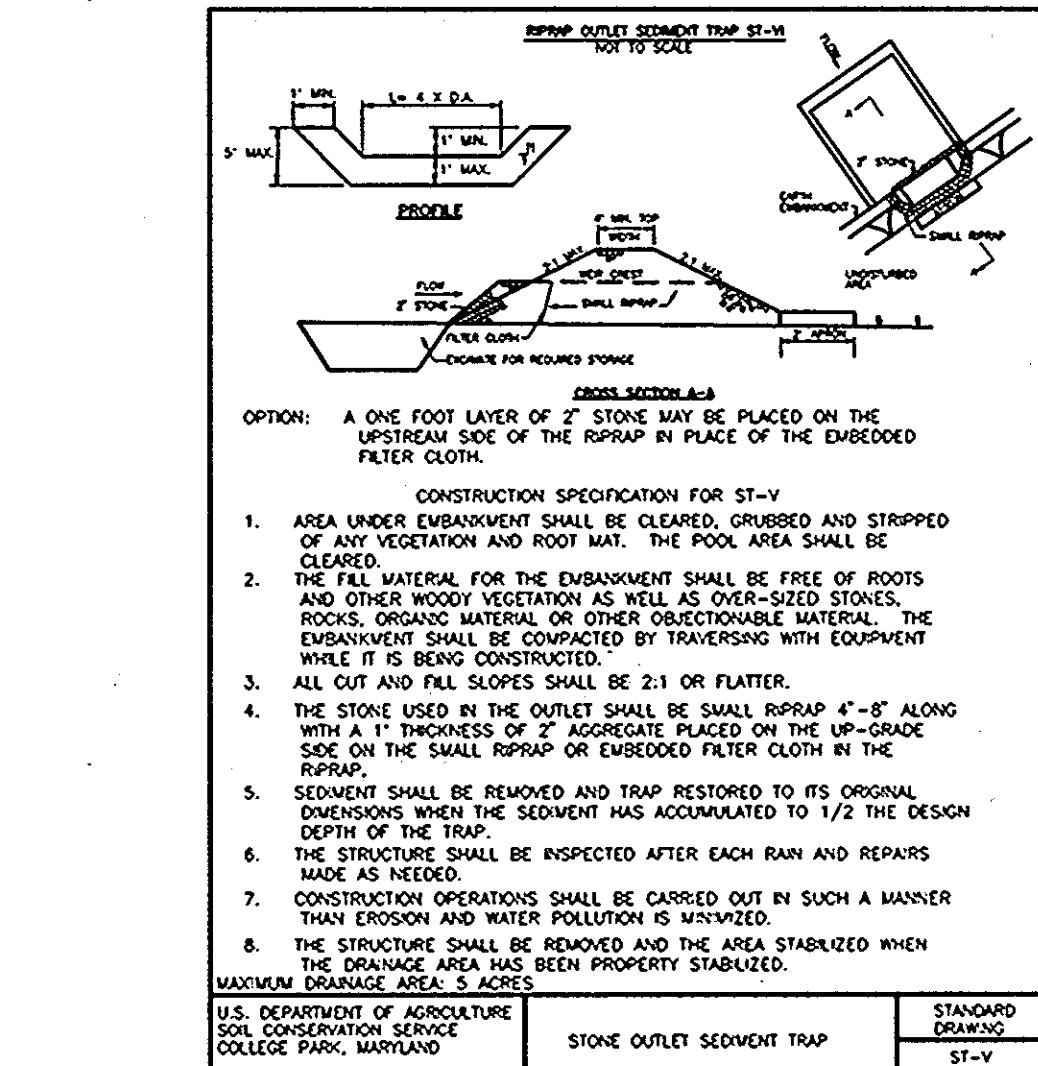
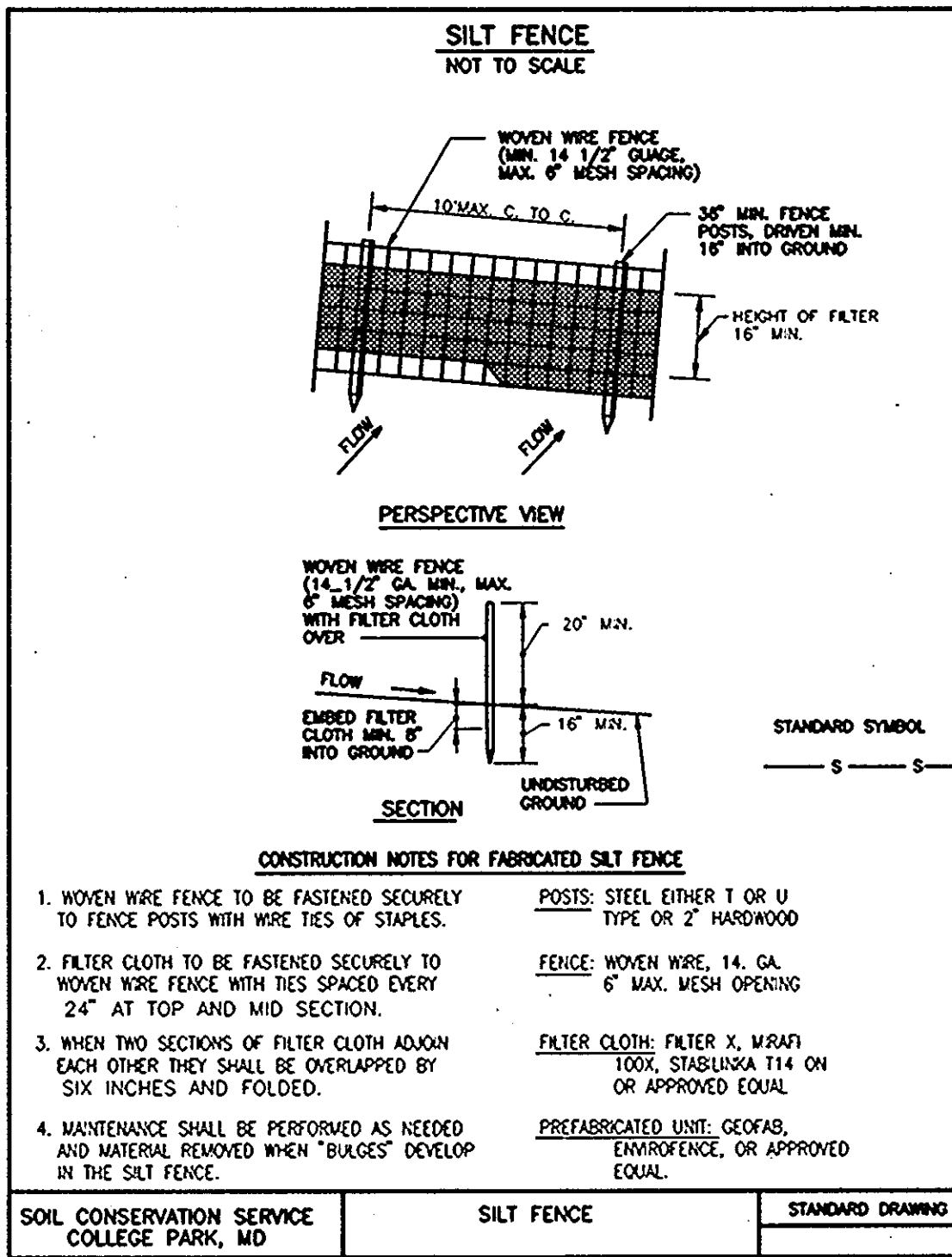
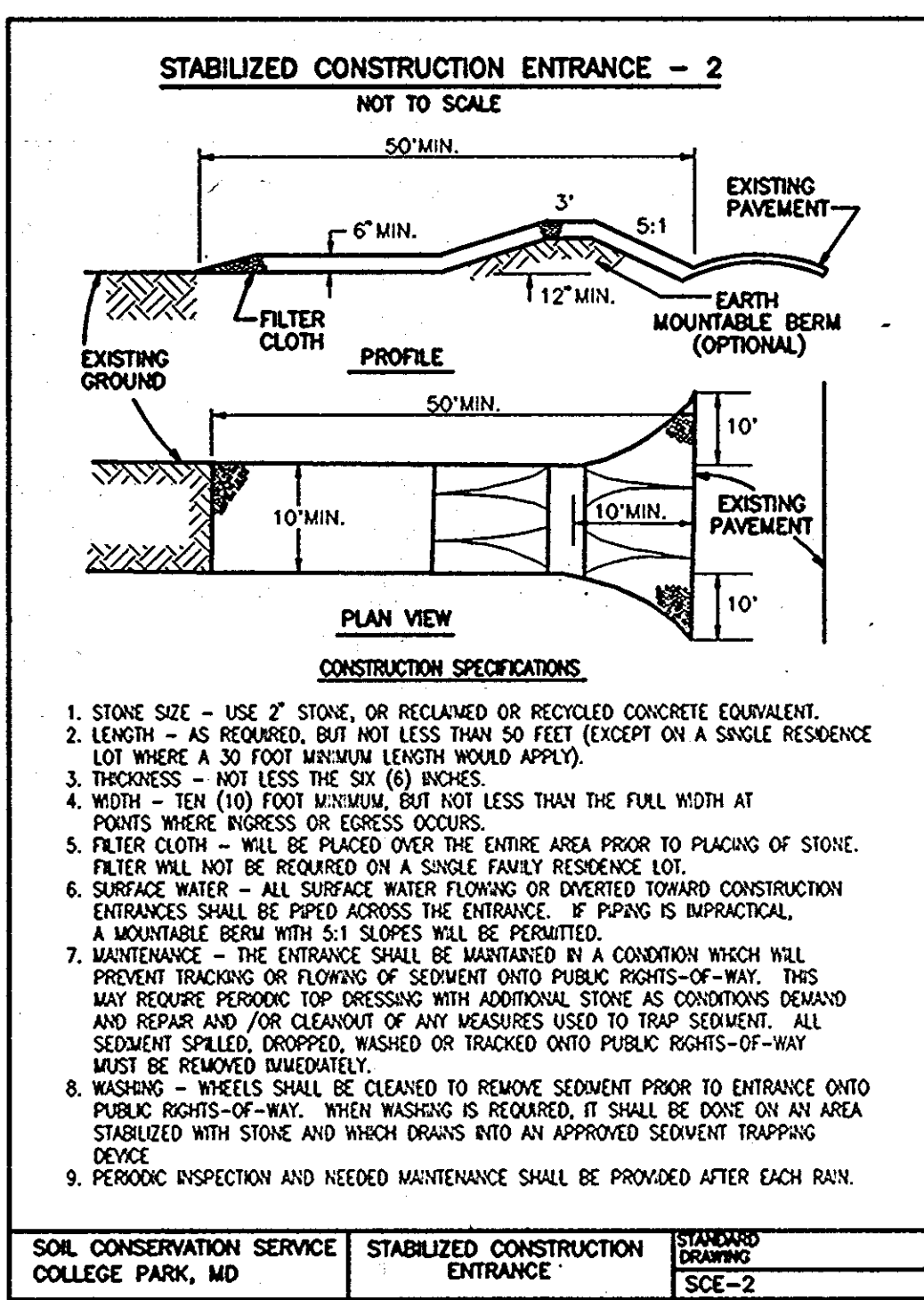
engineers project management planners  
**SC** 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390  
**SHAK CONSULTANTS, INC.**

Designed: [Blank] Checked: [Blank]  
 Date: 09-20-92 Scale: 1"=20'  
 Project No.: 91M-4554 Sheet No.: 11 OF 14

AutoCAD FILE NAME: BIDSEC.DWG

SDP-93-04





**HOWARD SOIL CONSERVATION DISTRICT 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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED** -- APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE** -- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK 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 (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, 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 - USE SOD. OPTION 3 - SEED WITH 60/LBS ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

**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 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

**MAINTENANCE** -- INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDBED PREPARATION** -- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS** -- APPLY 600 LBS PER ACRE OF 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

**SEEDING** -- FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/100 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 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 WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**CONSTRUCTION SEQUENCE / EROSION AND SEDIMENT CONTROL NARRATIVE**

THIS PROJECT IS TO BE CONSTRUCTED IN SUCH A MANNER AS TO MINIMIZE THE EFFECTS OF SILTATION AND EROSION. THE SILTATION-EROSION CONTROL PLAN IS TO BE ADHERED TO AND ALL NECESSARY MEASURES WILL BE TAKEN TO INSURE THAT UNDISTURBED AREAS NOT CONTAMINATED BY RUNOFF FROM THE CONSTRUCTION AREA.

**PROJECT DESCRIPTION:**  
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A GASOLINE SERVICE FACILITY ON 1.25 ACRES. THE SITE IS LOCATED IN HOWARD COUNTY, MARYLAND, APPROXIMATELY 300 FEET SOUTH OF ROUTE 175, ON WASHINGTON-BALTIMORE BLVD. (ROUTE 1).

**EXISTING SITE CONDITIONS:**  
THE SITE CONSISTS OF AN EXISTING GASOLINE SERVICE FACILITY AND CONTAINS APPROXIMATELY 31,000 SQ. FT. OF IMPERVIOUS AREA. THE SITE SLOPES FROM THE NORTH TO THE SOUTH AT AN AVERAGE RATE OF 4%. RUNOFF IS UNCONTROLLED, FOR BOTH QUANTITY AND QUALITY, AND IS RELEASED INTO THE CURB ON THE NORTHWEST SIDE OF ROUTE NO. 1. PROPERTY ACCESS IS FROM THE SOUTHWEST VIA TWO EXISTING ENTRANCES OFF OF WASHINGTON-BALTIMORE BLVD.

**ADJACENT PROPERTY OWNERS:**  
ADJACENT PROPERTY OWNERS ARE:  
a. GULF OIL  
b. HOLIDAY INN

**SOLIS DATA:**  
SEE SOILS MAP AND DESCRIPTION ON COVER SHEET.

**EROSION AND SEDIMENT CONTROL MEASURES:**  
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE LATEST EDITION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

**CONSTRUCTION SEQUENCE:**  
GENERAL: ESTIMATED START OF CONSTRUCTION WILL BE SPRING 1993. ESTIMATED DURATION OF ACTIVITIES: 80 DAYS.

- GRADING PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF INSPECTION LICENSE, AND PERMIT PRIOR TO STARTING THE CONSTRUCTION.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE, AS SHOWN ON SHEET 10.
- TEMPORARILY CLOSE THE SOUTHERNMOST ENTRANCE AND PLACE EARTH DIKE. REMOVE PAVEMENT AS REQUIRED FOR INSTALLATION.
- CLEAR AND GRUB AREA REQUIRED FOR PERIMETER CONTROLS AND INSTALL PERIMETER SILT FENCE.
- INSTALL TRENCH DRAINS WITH INLET PROTECTION (STRUCTURE #2 & #3) AND THE 15" RCP OUTFALL PIPES AND RIPRAP AT STRUCTURE #1 WILL BE MAINTAINED PROXIMALLY DURING CONSTRUCTION TO EXTEND THE LIFE OF INFILTRATION TRENCH. CONTRACTOR SHALL PROVIDE AMPLE PROTECTION TO ENSURE SEDIMENT CAPTURE FROM SITE.
- INSTALL TRENCH DRAIN WITH INLET PROTECTION (STRUCTURE #2) AND THE 15" RCP OUTFALL PIPE AND RIPRAP AT STRUCTURE #1.
- INSTALL SILT FENCE, AS INLET PROTECTION, TO UPSTREAM SIDE OF STRUCTURE #2.
- CLEAR REMAINDER OF THE SITE AND PERFORM DEMOLITION AND REMOVAL OPERATIONS.
- INSTALL 15" RCP FROM STRUCTURE #2 TO STRUCTURE #3 AND PLUG THE END OF THE PIPE. DO NOT BUILD STRUCTURE #3.
- ROUGH GRADE SITE, CONSTRUCT NEW FOUNDATIONS, INSTALL UNDERGROUND STORAGE TANKS AND REMAINING UNDERGROUND UTILITIES. PROVIDE TEMPORARY SEEDING AS REQUIRED.
- INSTALL CURB AND GUTTER, MAKE SMOOTH TRANSITION TO EXISTING CURBLINE.
- INSTALL COMPACTED STONE SUBBASE.
- CONSTRUCT THE CONCRETE PAD AND PUMP ISLANDS.
- INSTALL TRENCH DRAIN (STRUCTURE #3) AND TIE INTO THE STUBBED OUT PIPE.
- INSTALL BASE PAVING.
- AFTER THE UPSTREAM AREAS ARE STABILIZED, CLEAN OUT AND RESTORE AREA EXCAVATED FOR INFILTRATION TRENCH TO ITS ORIGINAL DIMENSIONS OF 120'x10'x5'. (SEE INFILTRATION TRENCH, SEQUENCE OF CONSTRUCTION ON SHEET 8)
- INSTALL NEW BUILDING AND CANOPY.
- INSTALL FINAL PAVING AND PERMANENTLY STABILIZE SITE WITH PLANTING AND SEEDING.
- REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES, REPAIR AND PERMANENTLY STABILIZE REMOVAL AREA.

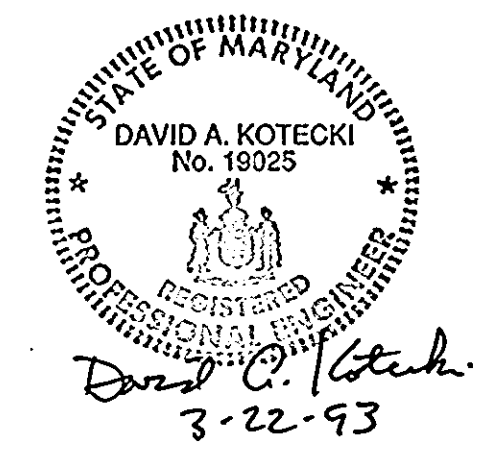
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-22-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM. HOWARD COUNTY HEALTH DEPARTMENT.  
COUNTY HEALTH OFFICER: [Signature] 7-22-93  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
DIRECTOR: [Signature] 7/30/93  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] 7/30/93  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
DIRECTOR: [Signature] 6/9/93  
CHIEF, BUREAU OF ENGINEERING: [Signature] 5-6-93

**HOWARD SOIL CONSERVATION DISTRICT**

- STANDARD SEDIMENT CONTROL NOTES**
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, 880-3450.
  - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
  - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
  - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
  - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). 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: 1.25 ACRES  
AREA DISTURBED: 1.15 ACRES  
AREA TO BE ROOFED OR PAVED: 0.89 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 0.36 ACRES  
TOTAL CUT: 1.538 CU. YDS.  
TOTAL FILL: 1.063 CU. YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: TO BE PREAPPROVED BY SEDIMENT CONTROL INSPECTOR

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



**EXXON CORPORATION** Real Estate & Engineering  
Marketing Department 1200 Smith Street Rm.32000 Houston, Texas 77210  
PROJECT NO.: 91M-4554  
DISK NO.: 91M-4554-2  
DRAWN BY: Cav.  
7930 WASHINGTON BOULEVARD  
ELECTION DISTRICT NO. 6  
CENSUS TRACT #6067.03  
UBER 525 FOLIO 183  
TAX MAP #43 PARCEL #A PLAT #10812  
WATER CODE 802 SEWER CO. 3360000  
HOWARD COUNTY, MARYLAND  
RAS NO.: 2-6427  
DWG NO.: 2-6427.12

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.

**Sci** SHAK CONSULTANTS, INC.  
30 west gude suite 120 rockville maryland 20850  
p.o. box 10313 rockville 20849-0313 phone 301 294 6390  
engineers project management planners  
Designed H.A.C. Checked D.A.K.  
Date 09-20-92 Scale 1"=20'  
Project No. 91M-4554 Sheet No. 12 OF 14

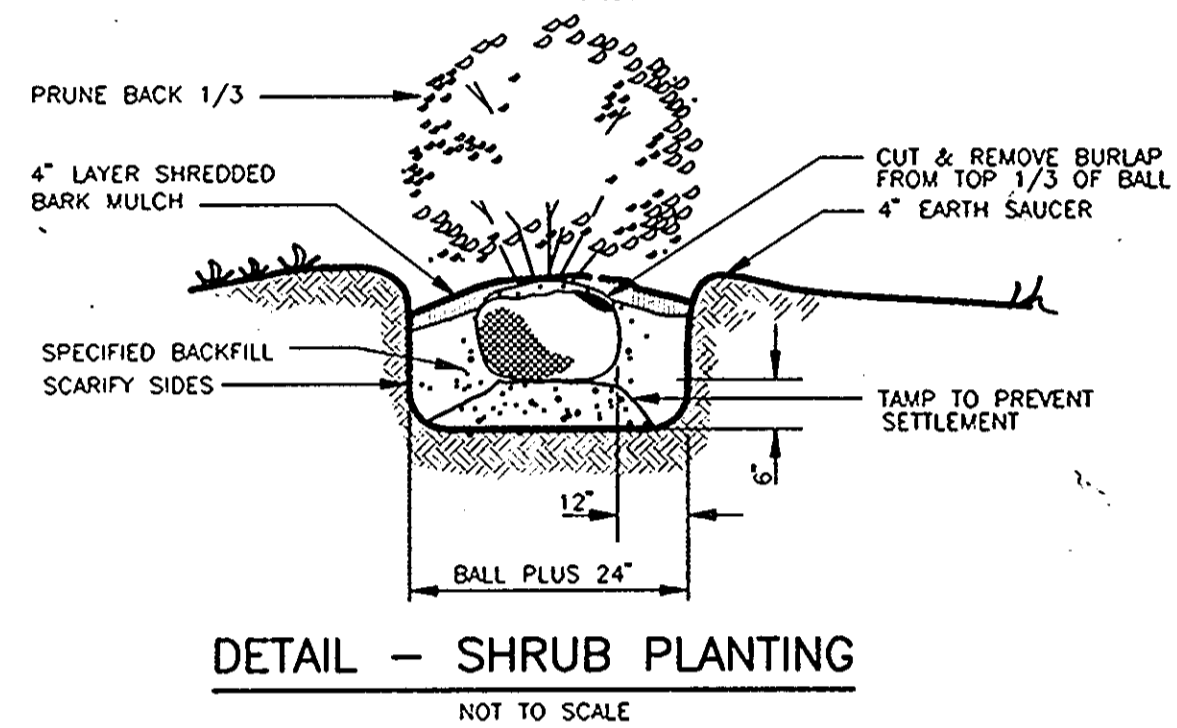
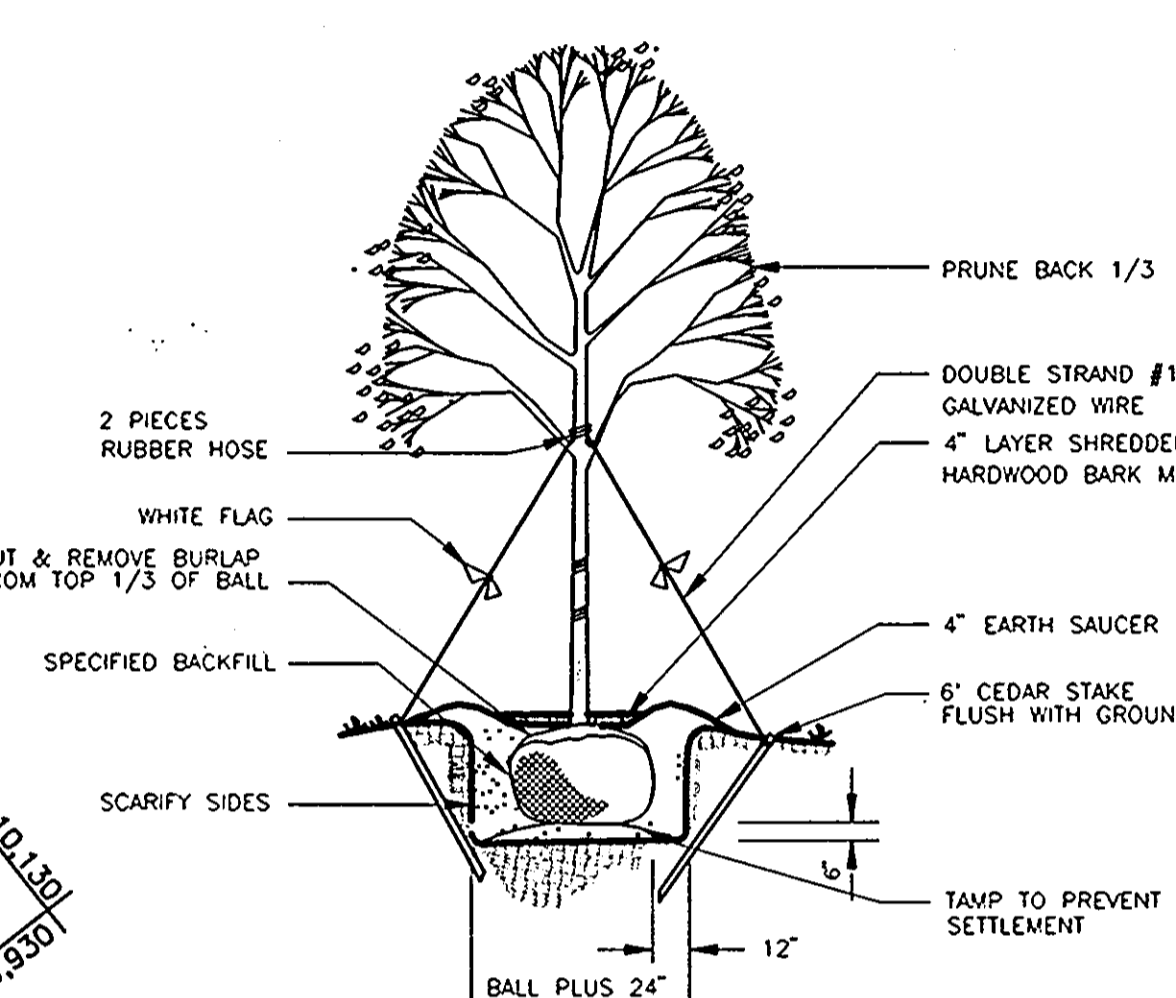
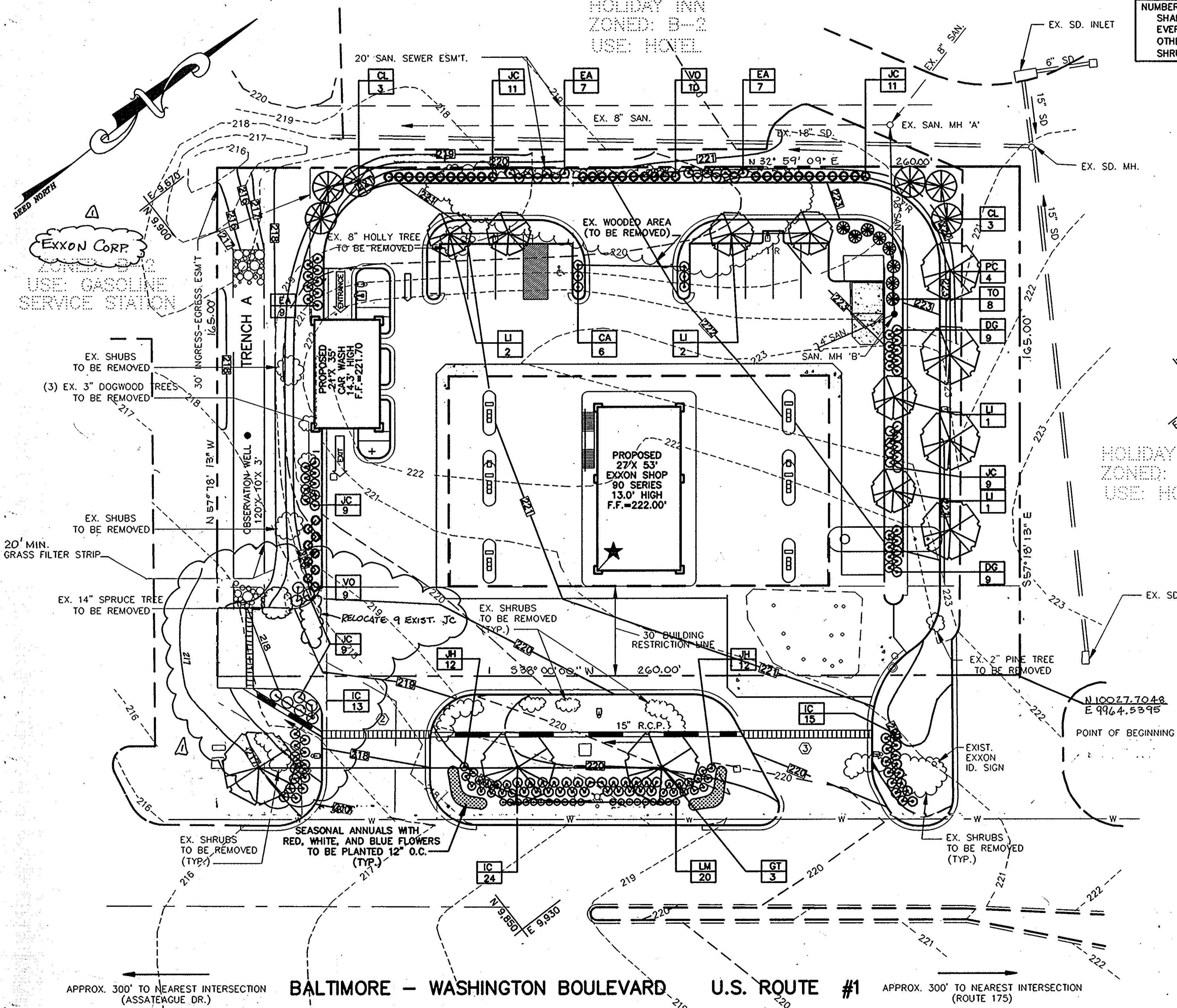


PLANT SCHEDULE				
QUANTITY	ABBR.	SIZE	BOTANICAL NAME	COMMON NAME
24	JH	12"	JUNIPERUS HORIZONTALIS PLUMOSA	ANDORRA JUNIPER
6	CA	12-18"	COYONASTER ACICULATA	CRANBERRY COTONEASTER
20	DC	18-24"	DEUTZIA GRACILIS NIKKO	NIKKO DEUTZIA
23	EA	30-36"	EUONYMUS ALATUS COMACTUS	DWARF WINGED EUONYMUS
52	IC	18-24"	ILEX CRENATA HELLERI	DWARF JAPANESE HOLLY
49	JC	24-30"	JUNIPERUS CHINENSIS PFITZERIANA COMPACTA	COMPACT PFITZER JUNIPER
8	TO	18-24"	THUJA OCCIDENTALIS TECHNY	TECHNY ARBORVITAE
19	VO	24-30"	VIBURNUM OPULUS COMPACTA	COMPACT EUROPEAN CRANBERRYBUSH
20	LM	5"	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE
6	LI	6-8"	LAGERSTROEMIA INDICA	CRABE MYRTLE
4	PC	9-11' 1/2" CAL.	PYRUS CALLERYANA BRADFORD	BRADFORD PEAR
6	CL	6-8"	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS
3	GT	9-11' 1/2" 1/2" CAL.	GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER	SHADEMASTER THORNLESS HONEYLOCUST

SCHEDULE A PERIMETER LANDSCAPE EDGE		
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	B	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	190'	210' (WEST) 260' (NORTH) 210' (EAST)
CREDIT FOR EXISTING VEGETATION	NO	NO
CREDIT FOR WALL, FENCE OR BERM	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	3	10
EVERGREEN TREES	4	N/A
SHRUBS	N/A	N/A
NUMBER OF PLANTS PROVIDED		
SHADE TREES	3	4
EVERGREEN TREES	0	6
OTHER TREES (2:1 SUBSTITUTION)	0	6
SHRUBS (10:1 SUBSTITUTION)	96 (40 REQUIRED)	84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 7-22-93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
 DIRECTOR: *[Signature]* DATE: 7/30/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 7/30/93  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR: *[Signature]* DATE: 6/9/93  
 CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 5-6-93

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 12-22-92



LANDSCAPING NOTES

1. PROVIDE PLANT MATERIAL TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.
2. COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.
3. PLANT DECIDUOUS MATERIALS IN A DORMANT CONDITION. IF PLANTED IN-LEAF, PLANTS SHALL BE SPRAYED WITH AN ANTIDESICCANT PRIOR TO PLANTING.
4. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH PROTECTIVE COVERING TO PREVENT WIND BURN.
5. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS IS SHOWN ON THIS SHEET. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.
6. PROTECT EXISTING UTILITIES, PAVING AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPING OPERATIONS.
7. LOCATE PLANTS AS INDICATED OR AS APPROVED IN THE FIELD AFTER STAKING BY THE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.
8. PERFORM CLEANING DURING INSTALLATION OF THE WORK AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS, AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM PLANTING OPERATIONS.
9. ALL NON-PAVED AREAS WHICH ARE DISTURBED SHALL BE SODDER OR SEEDED PER SHEET 11.
10. IRRIGATION SYSTEM INSTALLATION AND MATERIALS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. INSTALLATION SHALL CONFORM TO THE STANDARDS AND SPECIFICATION AS SHOWN ON EXXON PLAN #1169A SHEETS 1 & 2.
11. THIS PLANTING PLAN IS PREPARED IN CONFORMANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL.

STATE OF MARYLAND  
 DAVID A. KOTECKI  
 No. 18025  
*[Signature]*  
 3-22-93  
 2-23-94

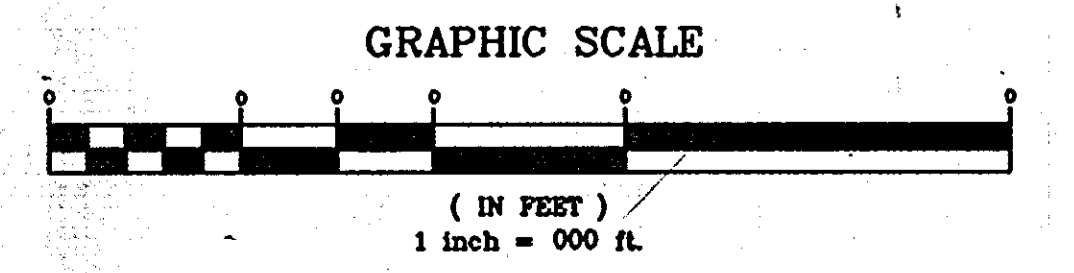
THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY!

<b>EXXON CORPORATION</b> Real Estate & Engineering		PROJECT NO.: 91M-4554
Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770		DISK NO.: NONE
LANDSCAPE PLAN 7930 WASHINGTON BOULEVARD ELECTION DISTRICT NO. 6 CENSUS TRACT #6067.03 LIBER 525 FOLIO 183 TAX MAP #43 PARCEL #A PLAT #10812 WATER CODE B02 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		RAS NO.: 2-6427
DRAWN BY: CoV.		DWG NO.: BIDLS.DWG

DATE	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBMISSION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
3/19/93	REV. AS PER NEW CO. LANDSCAPE REQUIREMENTS	P.A.K.	D.A.K.
4/1/93	REV. AS PER COUNTY COMMENTS	P.A.K.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.
2/23/94	REV. FOR INTERPARCEL ACCESS	DAK	DAK

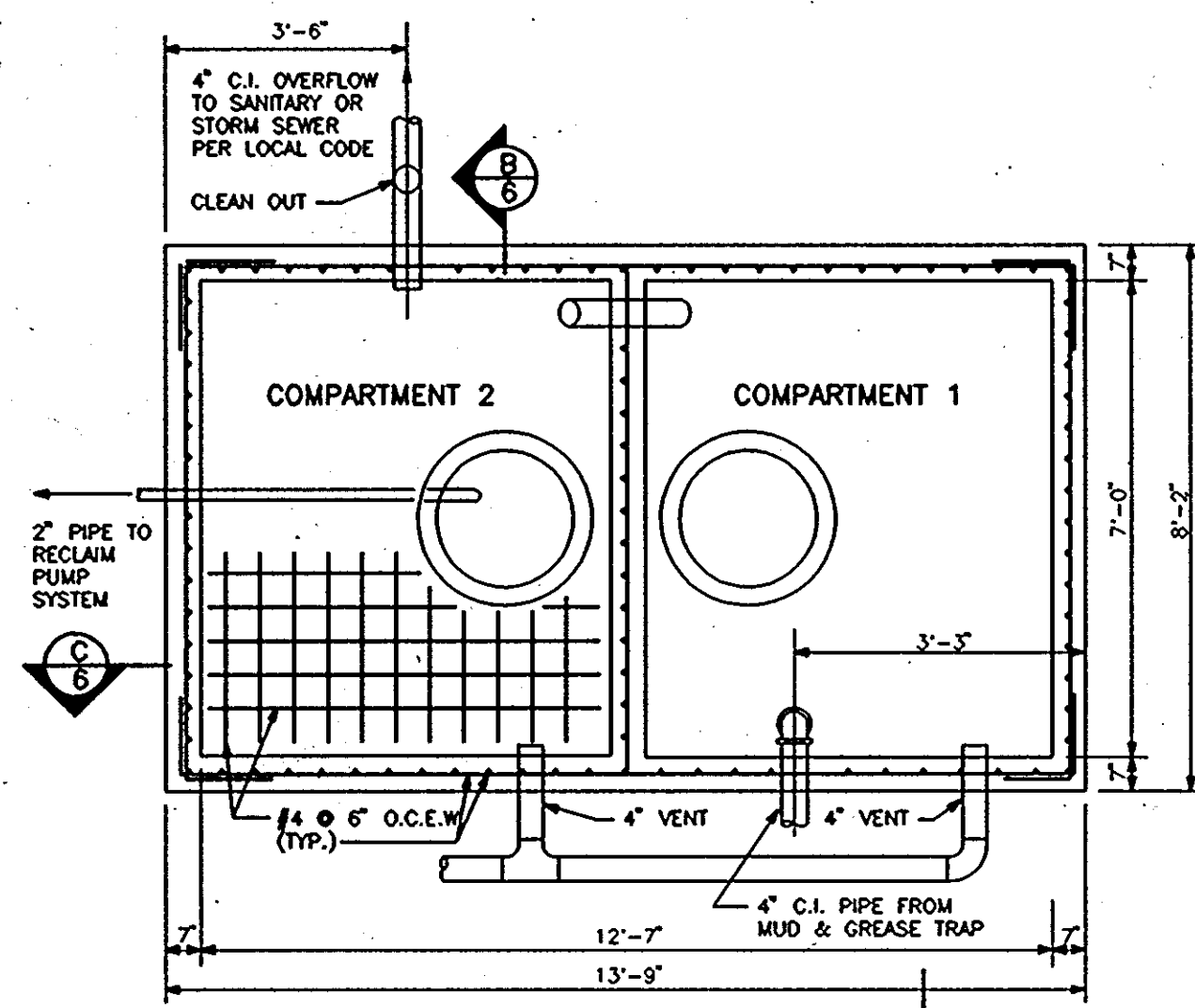
engineers project management planners  
**SCI**  
 30 west gude suite 120 rockville maryland 20850  
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390  
**SHAK CONSULTANTS, INC.**

Designed	Checked
P.A.K.	D.A.K.
Date	Scale
09-20-92	1"=20'
Project No.	Sheet No.
91M-4554	13 OF 14

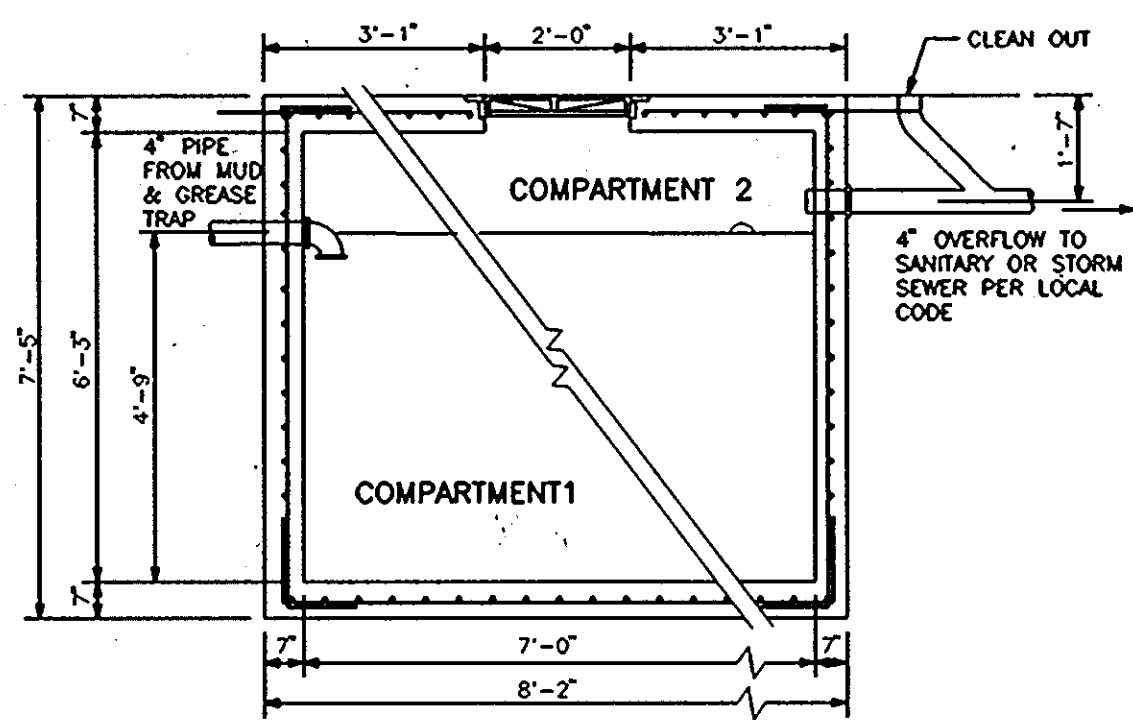


AutoCAD FILE NAME: BIDLS.DWG

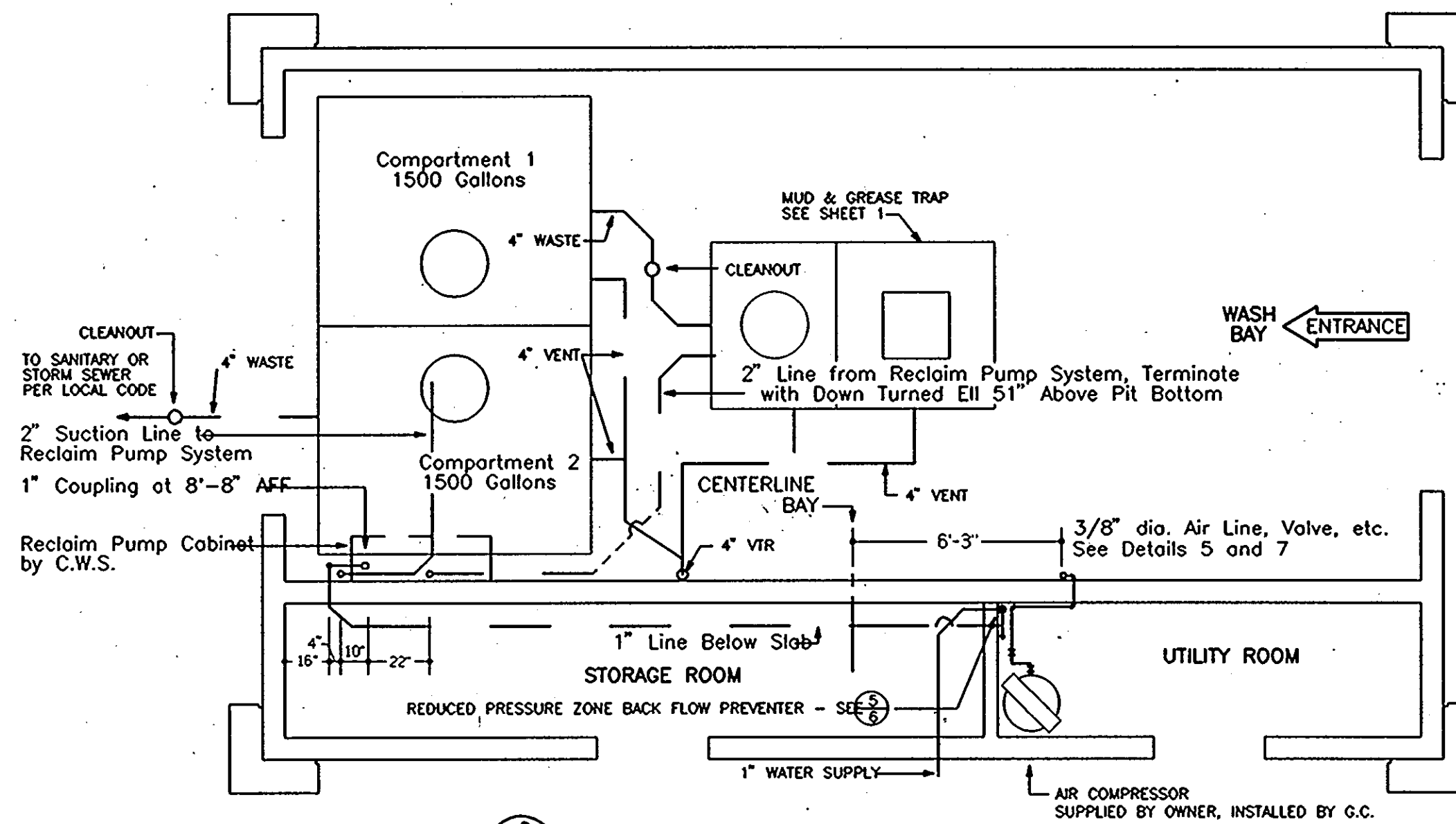
**CAR WASH RECLAIM SYSTEM DETAILS**



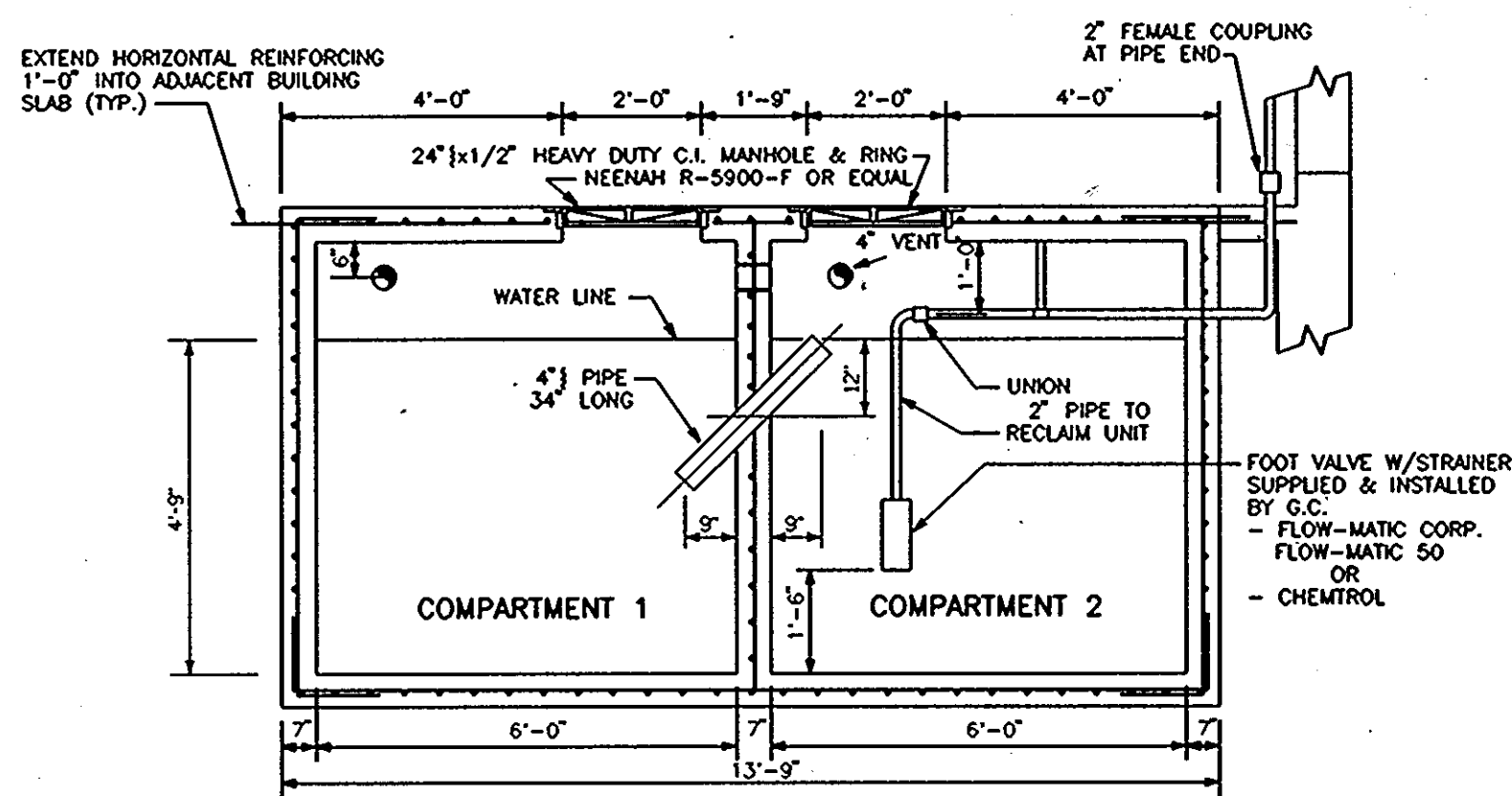
**A** RECLAIM TANK  
6 NTS.



**B** RECLAIM TANK  
6 NTS.

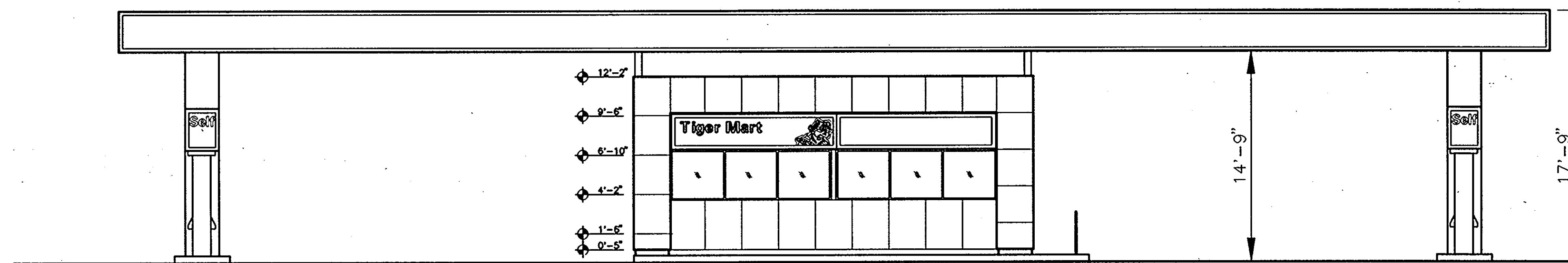


**6** PLUMBING PLAN  
6 1/4" = 1'-0"



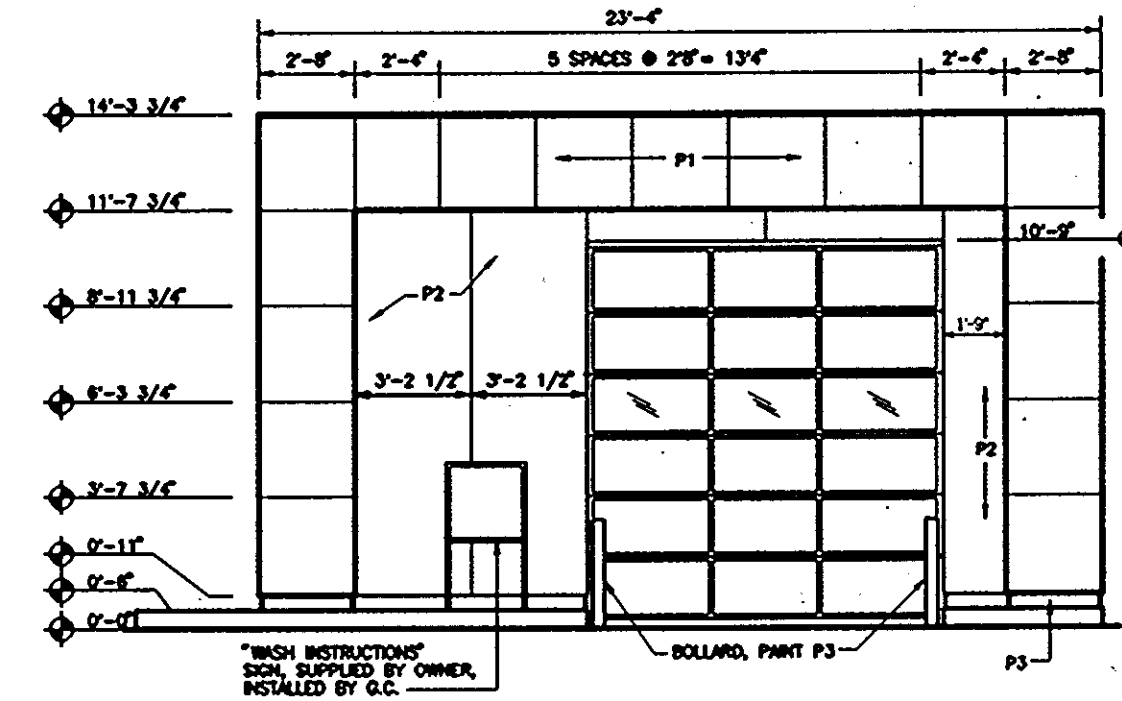
**C** RECLAIM TANK  
6 NTS.  
1500 GALLONS EACH COMPARTMENT (NOTE: PRECAST UNITS MEETING THESE DWG. SPECIFICATIONS ARE ACCEPTABLE)

**STRUCTURAL ELEVATIONS**



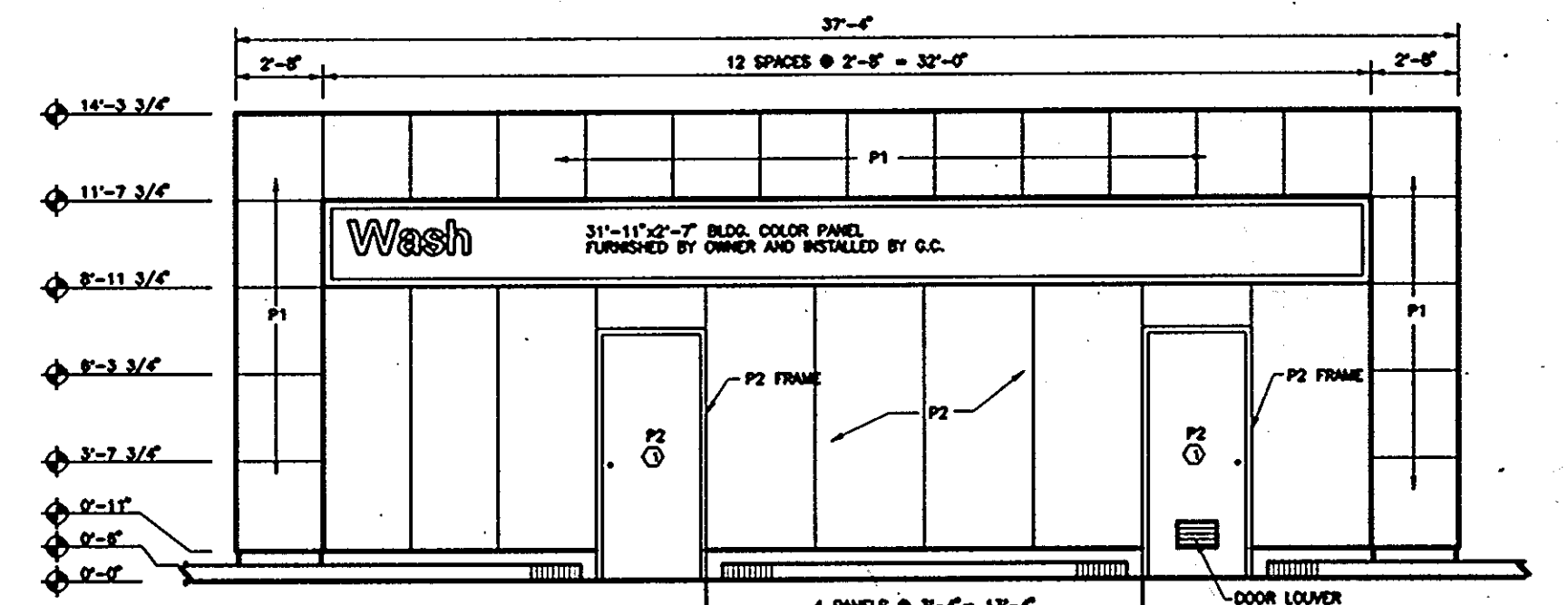
WEST ELEVATION W/ CANOPY

NOT TO SCALE



CAR WASH ENTRANCE ELEVATION

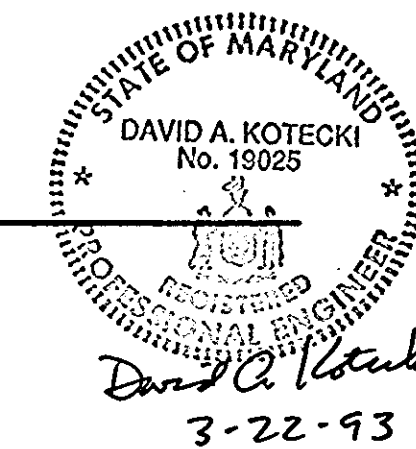
NOT TO SCALE



CAR WASH FRONT ELEVATION

NOT TO SCALE

NOTE: FOR ADDITIONAL BUILDING ELEVATIONS, SEE ARCHITECTURAL PLANS (SUBMITTED SEPARATELY).



<b>EXXON CORPORATION</b> Real Estate & Engineering		PROJECT NO.: 91M-4554
Marketing Department 6301 Ivy Lane, Suite 700, Greenbelt, MD 20770		DISK NO.: NONE
<b>SITE DETAILS &amp; ELEVATIONS</b> 7930 WASHINGTON BOULEVARD ELECTION DISTRICT No. 5 CENSUS TRACT # 6067.03 LIBER 525, FOLIO 183 TAX MAP # 43 PARCEL # A PLAT # 10812 WATER CODE 802 SEWER CO. 3350000 HOWARD COUNTY, MARYLAND		RAS NO.: 2-6427
DRAWN BY: Gv.	DRAWN BY: G.S.	DWG NO.: BIDSDE.DWG

DATE:	REVISIONS	BY	CHK
11/11/92	REV. AS PER SUBDIVISION REVIEW COMMENTS	H.A.C.	D.A.K.
2/17/93	REV. AS PER EXXON COMMENTS	H.A.C.	D.A.K.
7/23/93	REV. AS PER PLANNING & ZONING	E.C.C.	M.A.

engineers project management planners		Designed	Checked
30 west gude suite 120 rockville maryland 20850		H.A.C.	D.A.K.
p.o. box 10313 rockville 20849-0313 phone 301 294 6390		Date	Scale
SHAK CONSULTANTS, INC.		09-20-92	1"=20'
		Project No.	Sheet No.
		91M-4554	14 OF 14

AutoCAD FILE NAME: BIDSDE.DWG

SDP-93-04