

EXXON

4235 MONTGOMERY ROAD
 ELLICOTT CITY, MARYLAND 21043
 HOWARD COUNTY
 RAS# 2-2724

ZONING INFORMATION

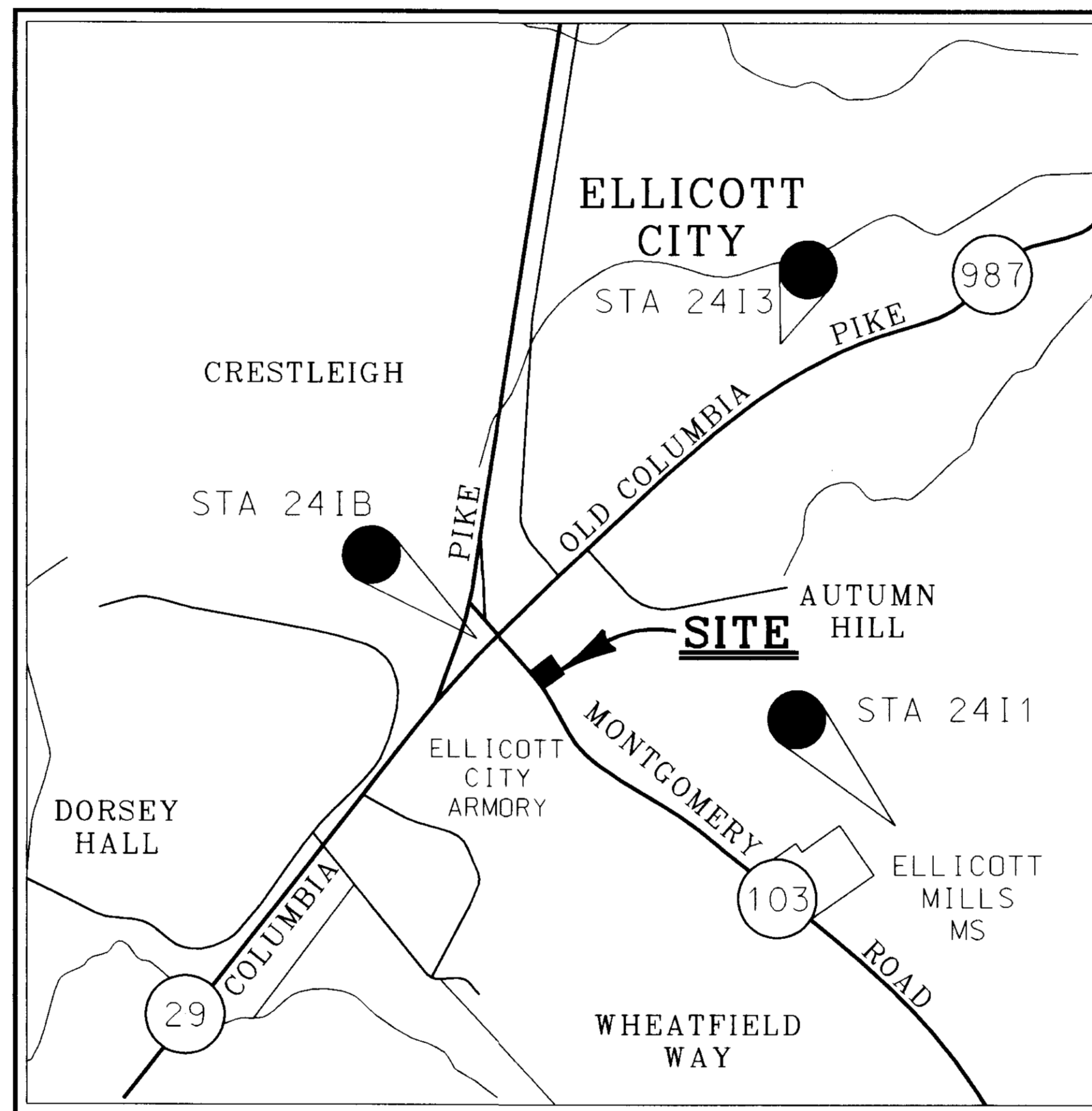
- PROPERTY WAS INCLUDED IN THE FOLLOWING ZONING DISTRICTS AS PART OF THE ADOPTION OF THE COUNTY'S COMPREHENSIVE ZONING PLAN :
 - 1948 - RESIDENTIAL
 - 1954 - B-2 (BUSINESS GENERAL)
 - 1961 - B-2 (BUSINESS GENERAL)
 - 1977 - B-2 (BUSINESS GENERAL)
 - 1985 - B-2 (BUSINESS GENERAL)
 - 1993 - B-2 (BUSINESS GENERAL)
- BOARD OF APPEALS AND ZONING BOARD CASES :
 - A. CASE NO. 575C : REQUEST FOR SPECIAL PERMIT FOR A GASOLINE SERVICE STATION. GRANTED ON 9/23/68 WITH THE FOLLOWING CONDITIONS :
 - (1) ENTRANCE TO BE CONSTRUCTED TO MD 103 WITH MARYLAND STATE ROADS COMMISSION APPROVAL.
 - (2) PLANT AND MAINTAIN A DOUBLE ROW OF EVERGREEN TREES (MIN. 6' HIGH) AT 10' INTERVALS ALONG REAR PROPERTY LINE AND ALONG SIDE PROPERTY LINES FOR A DISTANCE OF 50' FROM REAR BOUNDARY.
 - B. CASE NO. 96-40 E&V : REQUEST FOR SPECIAL EXCEPTION FOR A GASOLINE SERVICE STATION WITH A CONVENIENCE STORE AND VARIANCE TO REDUCE THE 30' SETBACK FROM A RESIDENTIAL DISTRICT TO 10 FEET FOR A DRIVEWAY ALONG THE SOUTHEAST SIDE OF THE SITE. GRANTED ON 12/3/96 WITH CONDITIONS.

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 FREDERICK WARD ASSOC., INC. 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. 1-410-725-9976
 - HOWARD COUNTY BUREAU OF UTILITIES 1-410-313-2366
 - AT&T CABLE LOCATION DIVISION 1-410-393-3553
 - BC&E 1-410-685-0123
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (313-1855) HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS STATED OTHERWISE.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - THE PURPOSE OF THESE SITE DEVELOPMENT PLANS IS TO CONSTRUCT A CONVENIENCE STORE, RELOCATE 4 MULTI-PRODUCT DISPENSERS, ADD 1 MPD, CONSTRUCT 5 PUMP ISLANDS AND A CANOPY.
 - 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.
 - PUBLIC WATER AND SEWER WILL BE UTILIZED. THE EXISTING 1" WATER SERVICE AND THE EXISTING SEWER CONNECTION SHALL BE MAINTAINED.
 - ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINITY PROPERTIES.
 - HOURS OF OPERATION WILL BE TWENTY-FOUR (24) HOURS PER DAY, SEVEN DAYS PER WEEK.
 - RESTROOM FACILITIES ARE AVAILABLE FOR PUBLIC USE AT ALL TIMES FACILITY IS IN OPERATION.

SITE ANALYSIS

- AREA OF PARCEL: 36216 S.F. OR 0.8314 AC±.
- ZONING: B-2
- DEED REFERENCE : 3381/225
- EXISTING USE : THREE (3) BAY SERVICE STATION
 PROPOSED USE : GAS & GO FACILITY AND CONVENIENCE STORE
- FLOOR SPACE:
 - A. GROSS AREA = 2120 S.F.
 - B. CONVENIENCE STORE = 1512 S.F.
 - C. STORAGE AREA = 648 S.F.
- MAXIMUM NUMBER OF EMPLOYEES: 2
- PARKING :
 - a. REQUIRED:
 - 1. GASOLINE SERVICE STATION = 3 SPACES
 - 2. CONVENIENCE STORE :
 2 SPACES / 1000 S.F. X 2120 S.F. = 5 SPACES
 - b. PROVIDED : 11 SPACES (INCLUDING 1 HANDICAP SPACE)
- BUILDING COVERAGE:
 - a. CONVENIENCE STORE = 2120 S.F.
 - b. CANOPY = 3778 S.F.
 - TOTAL BUILDING COVERAGE = 5898 S.F. (16.3%)
 - TOTAL BUILDING COVERAGE PERMITTED = 18,108 S.F. (50%)
- OPEN SPACE / LANDSCAPE AREA :
 - a. REQUIRED : 20% OR 7,244 S.F.
 - b. PROPOSED : 36.2% OR 13,112 S.F.



LOCATION MAP

SCALE: 1"=1000'
 HOWARD COUNTY ADC MAP
 PAGE NUMBER 12
 GRID NUMBERS C12 AND C13

BENCHMARK INFORMATION

- STATION 2411: CONCRETE MONUMENT WITH STAMPED DISK SET 775'± FROM MONTGOMERY ROAD BEHIND THE ELLICOTT CITY MIDDLE SCHOOL 32' FROM THE NORTH CORNER OF A TRANSMISSION TOWER AND 58.5' FROM THE EAST CORNER OF THE SAME TOWER N 577298.6623, E 1366075.175 ELEVATION 437.919
- STATION 2413 CONCRETE MONUMENT WITH STAMPED DISK SET 180' FROM NORTH WEST OF OLD COLUMBIA PIKE 159' NORTH EAST OF BGE #501734 ON COOKS LANE. ALSO 161' NORTH EAST OF A FIRE HYDRANT ON COOKS LANE AND 127' NORTH EAST OF A SEWER MANHOLE N580648.910S, E 1364974.459
- STATION 241B CONCRETE MONUMENT SET IN FRONT OF THE SEVENTH DAY ADVENTIST CHURCH ON COLUMBIA ROAD ACROSS THE STREET FROM A MAILBOX MARKED #4234 AND 29' FROM THE EDGE OF THE AND 83.5' FROM A REDUCE SPEED SIGN ELEVATION 391.27'

SDP* 97-63

ADDRESS CHART

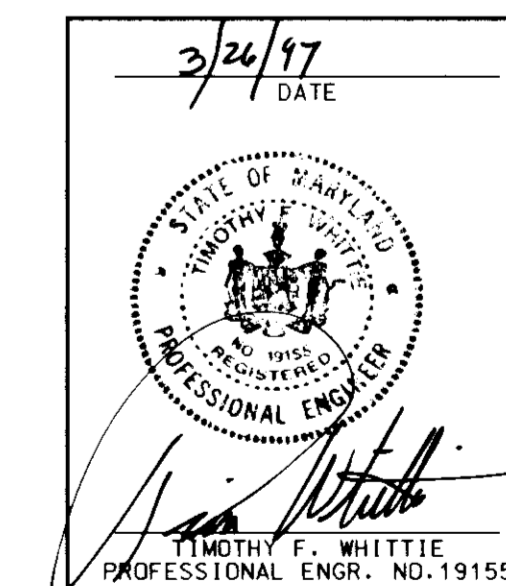
PARCEL	STREET ADDRESS
P. 444	4235 MONTGOMERY ROAD

PERMIT INFORMATION CHART					
PROJECT NAME	SECT./AREA	PARCEL NO.			
EXXON STATION	N/A	P. 444			
LIBER/FOLIO	BLOCK NO.	ZONE	TAX/ZONE-	ELECT. DIST.	CENSUS TR.
3381/225	24	B-2	24	2nd	6028
WATER CODE	SEWER CODE				
F04	5750615				

SHEET INDEX

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY AND PIPING PLAN
6	STORM DRAIN PROFILES AND DRAINAGE AREA MAP
7	STORMCEPTOR NOTES AND DETAILS
8	SEDIMENT AND EROSION CONTROL PLAN
9	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
10	LANDSCAPE PLAN
11	BUILDING AND SIGNAGE PLAN

11/24/97	CHANGE 1" TO 1/2" WATER LINES
DATE: NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>John J. Caserta</i>	4/10/97 DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION	
<i>Carin Hamilton</i>	4/27/97 DATE
DIVISION OF LAND DEVELOPMENT	
<i>Joseph S. Korte</i>	4/29/97 DATE
DIRECTOR	



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joseph M. Boyle</i>	7-25-97 DATE
COUNTY HEALTH OFFICER	

DRAWN/DEVELOPER: EXXON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301) 513-7511

PLANNING BOARD APPROVAL

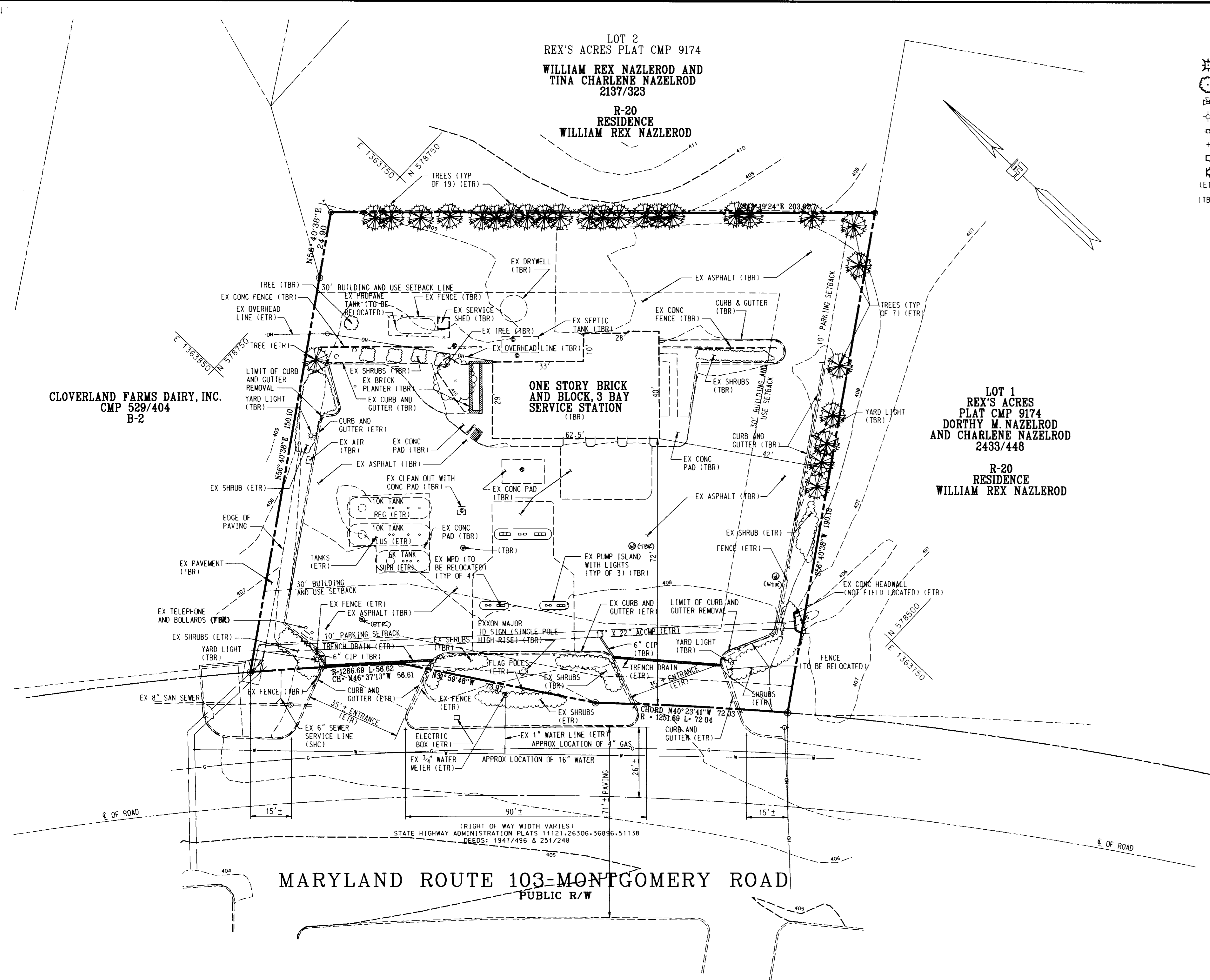
FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090

AREA	TAX MAP 24	PARCEL 444
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
CENSUS TRACT 6028	WATER CODE F04	SEWER CODE 5750615
TITLE: COVER SHEET FOR AN EXXON STATION		
4235 MONTGOMERY ROAD ELLICOTT CITY, MARYLAND 21043		
DESIGN BY: RBM	SCALE: AS SHOWN	PROJECT NO.: 93385-00 (CAD)
DRAWN BY: CP/MSM	DATE: 10/22/96	DRAWING NUMBER: 9624-00 (LAC)
CHECKED BY: TFW	APPROVED:	01 OF 11

LOT 2
 REX'S ACRES PLAT CMP 9174
 WILLIAM REX NAZLEROD AND
 TINA CHARLENE NAZLEROD
 2137/323
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

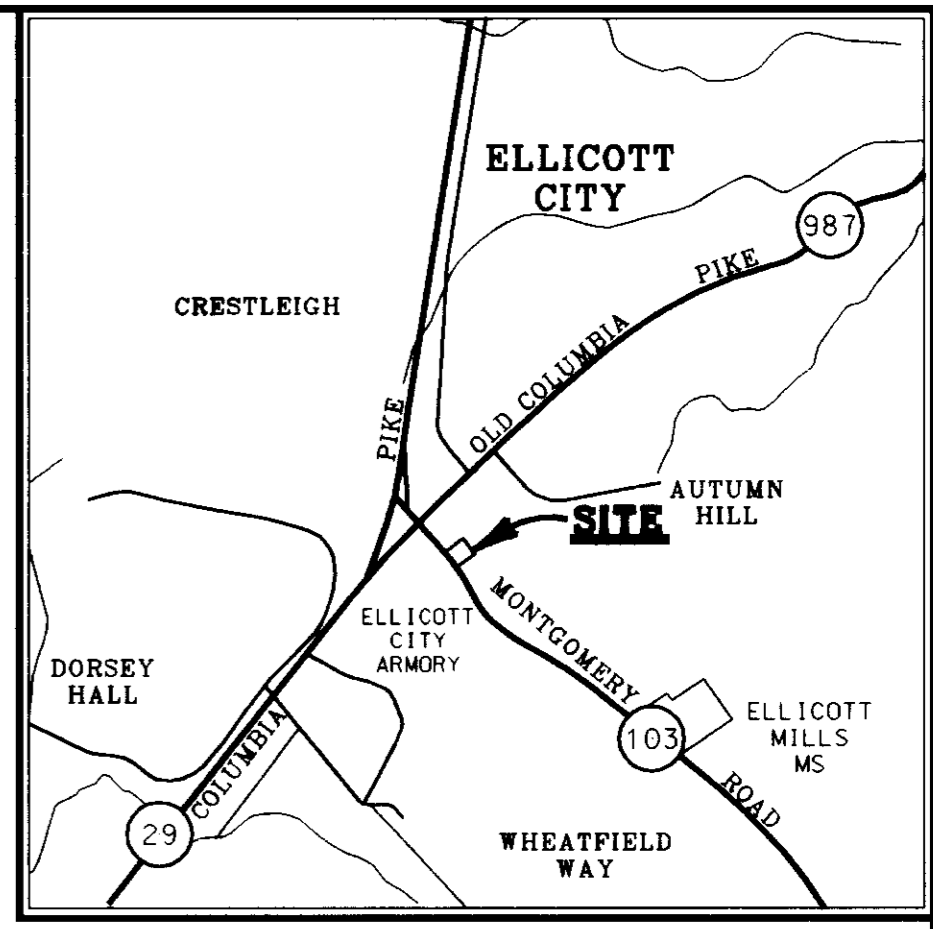
LOT 1
 REX'S ACRES
 PLAT CMP 9174
 DORTHY M. NAZLEROD
 AND CHARLENE NAZLEROD
 2433/448
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

CLOVERLAND FARMS DAIRY, INC.
 CMP 529/404
 B-2



LEGEND

	EVERGREEN TREE		STORM DRAIN
	DECIDUOUS TREE		WATER LINE
	FIRE HYDRANT		UNDERGROUND GAS
	LIGHT POLE		UNDERGROUND ELECTRIC
	WATER VALVE		UNDERGROUND TELEPHONE
	GROUND SPOT SHOT		SANITARY SEWER
	TELEPHONE BOX		SIGN
	GAS VALVE		PROPERTY CORNER
	(ETR) EXISTING TO REMAIN		SANITARY CLEAN OUT
	(TBR) TO BE REMOVED		WATER METER
			MONITOR WELL



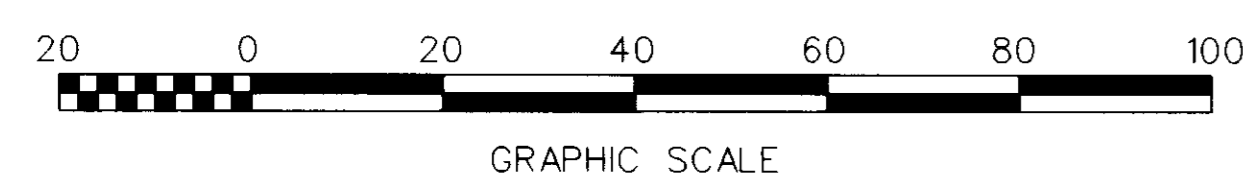
VICINITY MAP
 SCALE: 1" = 2000'

DEMOLITION NOTES

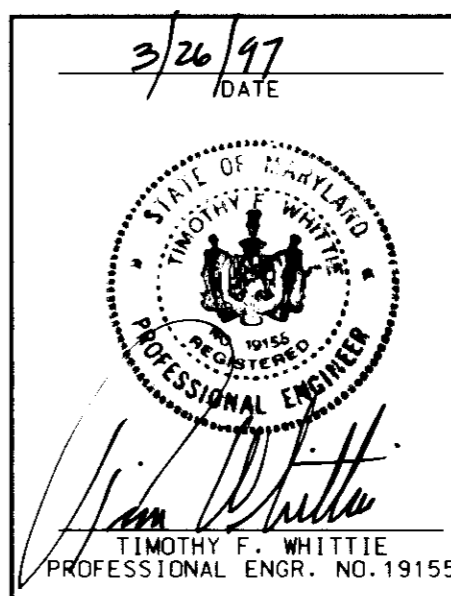
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING SITE CONDITIONS TO HIS SATISFACTION.
2. CONTRACTOR TO MEET WITH EXXON FIELD ENGINEER ON JOB SITE TO IDENTIFY EQUIPMENT, SIGNS, AND ITEMS TO BE REMOVED OR RETAINED PRIOR TO THE START OF DEMOLITION.
3. CONTRACTOR SHALL TRANSPORT EQUIPMENT, AS DESIGNATED BY EXXON FIELD ENGINEER, TO A LOCAL EXXON INVENTORY STORAGE AREA.
4. CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY O.S.H.A., EXXON, AND HOWARD COUNTY.
5. ALL DEMOLISHED MATERIAL SHALL BE MOVED TO AN APPROVED LOCATION.
6. EXISTING CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT AND/OR SAW CUT.
7. EXISTING SEPTIC TANK AND MONITORING WELLS TO BE ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT SPECIFICATIONS AS PART OF THE DEMOLITION PERMIT PROCESS.
8. ALL UTILITIES AND STRUCTURES WITHIN PUBLIC RIGHTS-OF-WAY SHALL REMAIN UNLESS OTHERWISE NOTED.
9. ANY UTILITIES DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY REMOVAL AND/OR RELOCATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
10. BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED BY FREDERICK WARD ASSOC. INC., DATED SEPTEMBER 9, 1994.
11. MONITORING WELL ABANDONMENT TO BE APPROVED BY M.D.E., OIL CONTROL PROGRAM. (410) 631-3386

MARYLAND ROUTE 103-MONTGOMERY ROAD
 PUBLIC R/W

(RIGHT OF WAY WIDTH VARIES)
 STATE HIGHWAY ADMINISTRATION PLATS 11121, 26306, 36896, 51138
 DEEDS: 1947/496 & 251/248



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



APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>John D. ...</i>	4/10/97
CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cindy Hamilton</i>	4/29/97
DIVISION OF LAND DEVELOPMENT	DATE
<i>Joseph ...</i>	4/29/97
DIRECTOR	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joseph M. Bond ...</i>	4-25-97
COUNTY HEALTH OFFICER	DATE

OWNER/
 DEVELOPER
EXXON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301) 513-7511
 BAS NO.: 2-2224

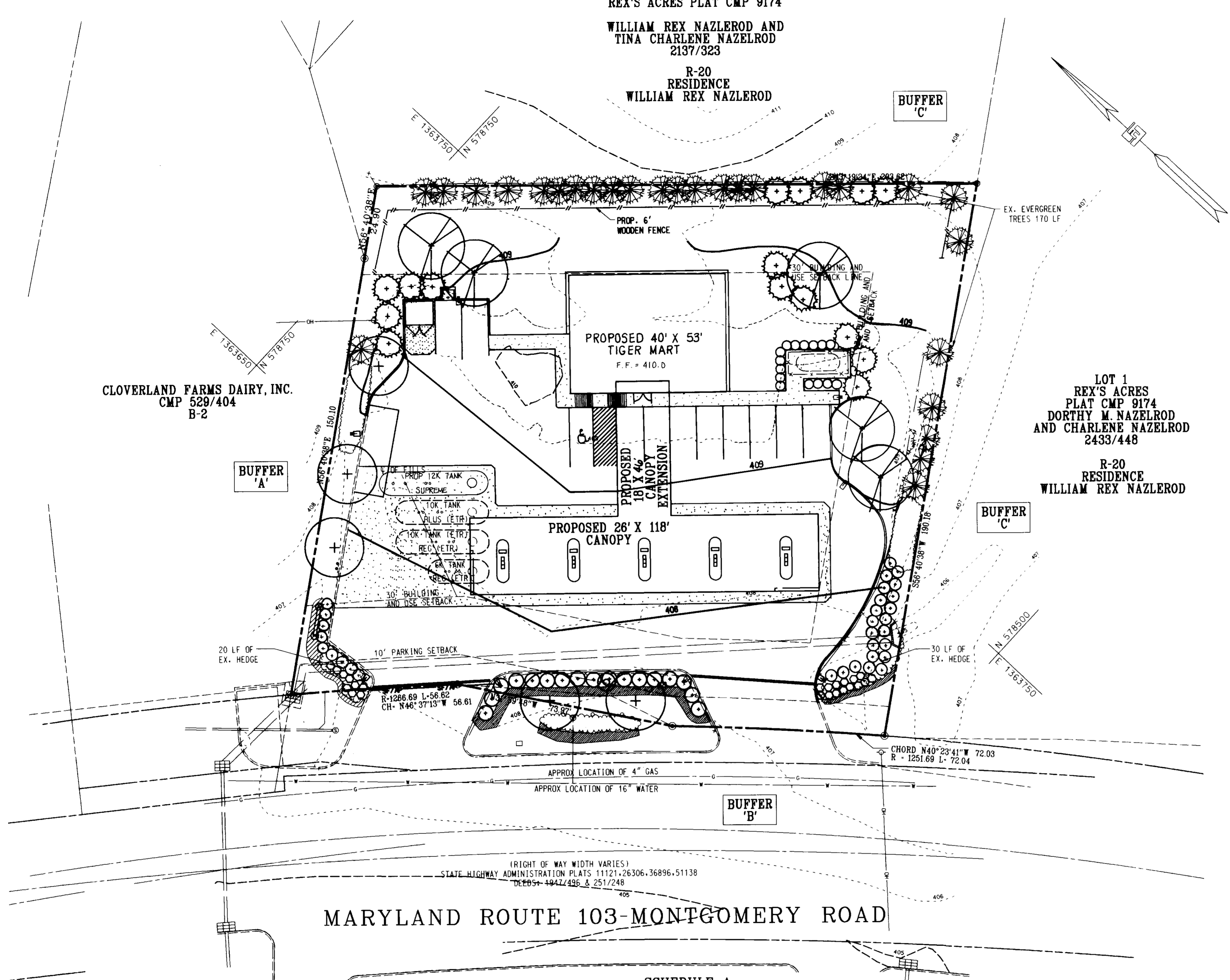
FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

FWA FILE: M:\PROJECTS\93385\ENGR\PEDEM02.DGN
AREA TAX MAP 24 PARCEL 444 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615
TITLE EXISTING CONDITIONS AND DEMOLITION PLAN FOR AN EXXON STATION AT 4235 MONTGOMERY ROAD ELLCOTT CITY, MARYLAND 21043
DESIGN BY: RBM SCALE: 1" = 20'
DRAWN BY: CP/LF DATE: 12-02-96
CHECKED BY: TFW APPROVED: PROJECT NO.: 93385.00 (CAD) 96124.00 (ACCT)
DRAWING NUMBER 02 OF 11

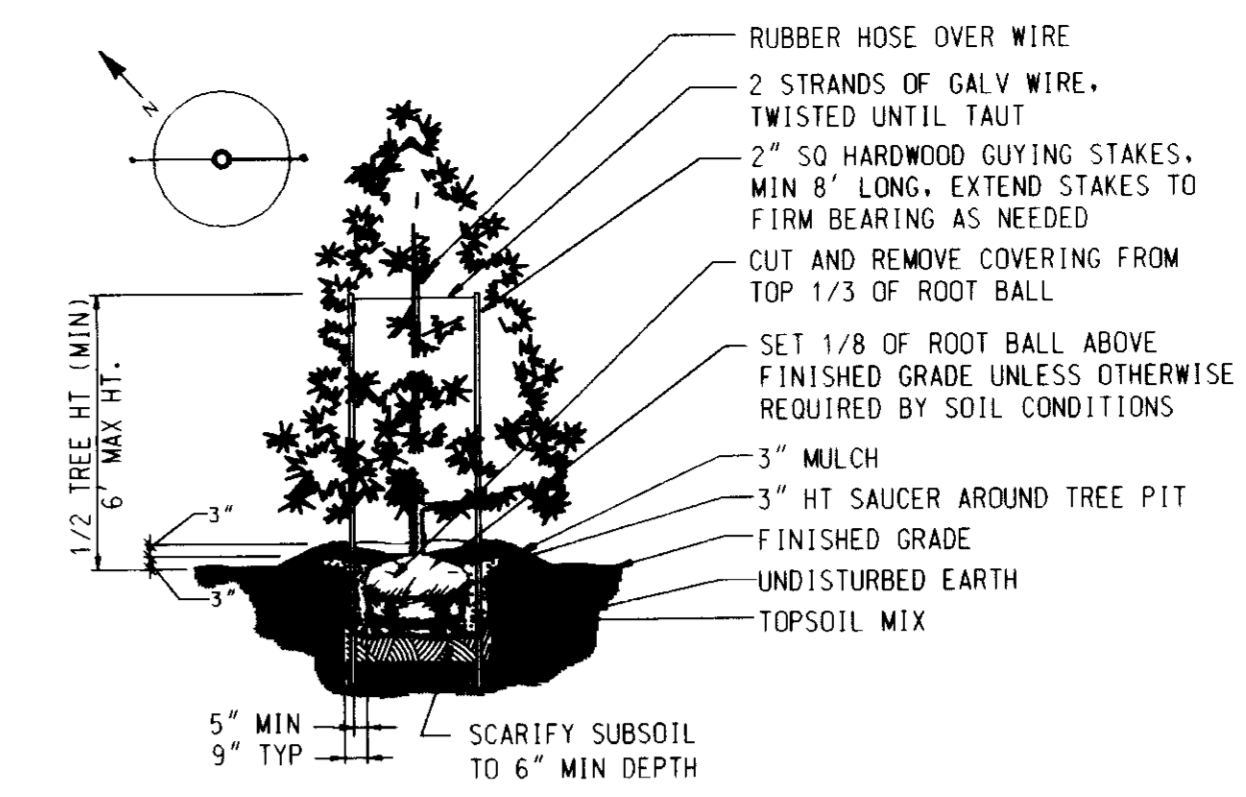
LOT 2
 REX'S ACRES PLAT CMP 9174
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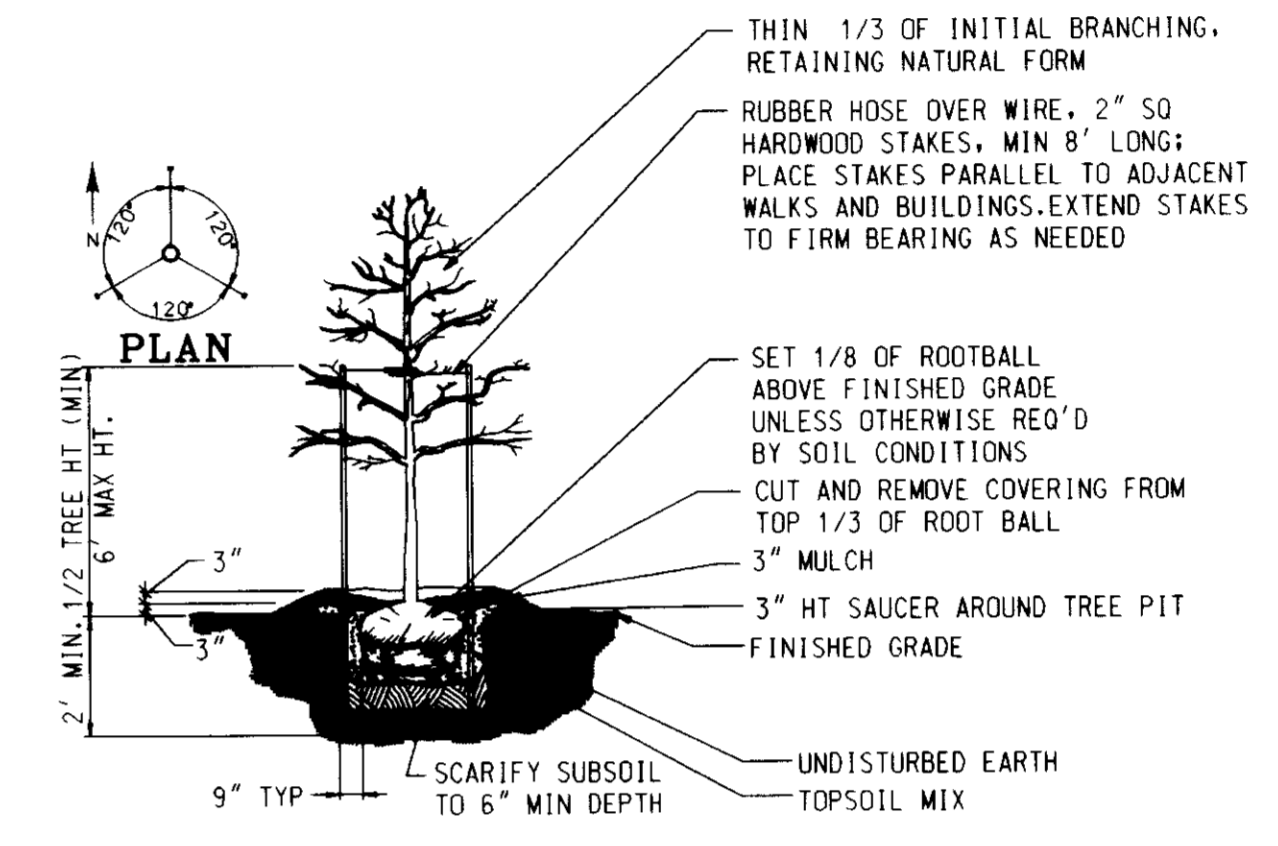
Cloverland Farms Dairy, Inc.
 CMP 529/404
 B-2



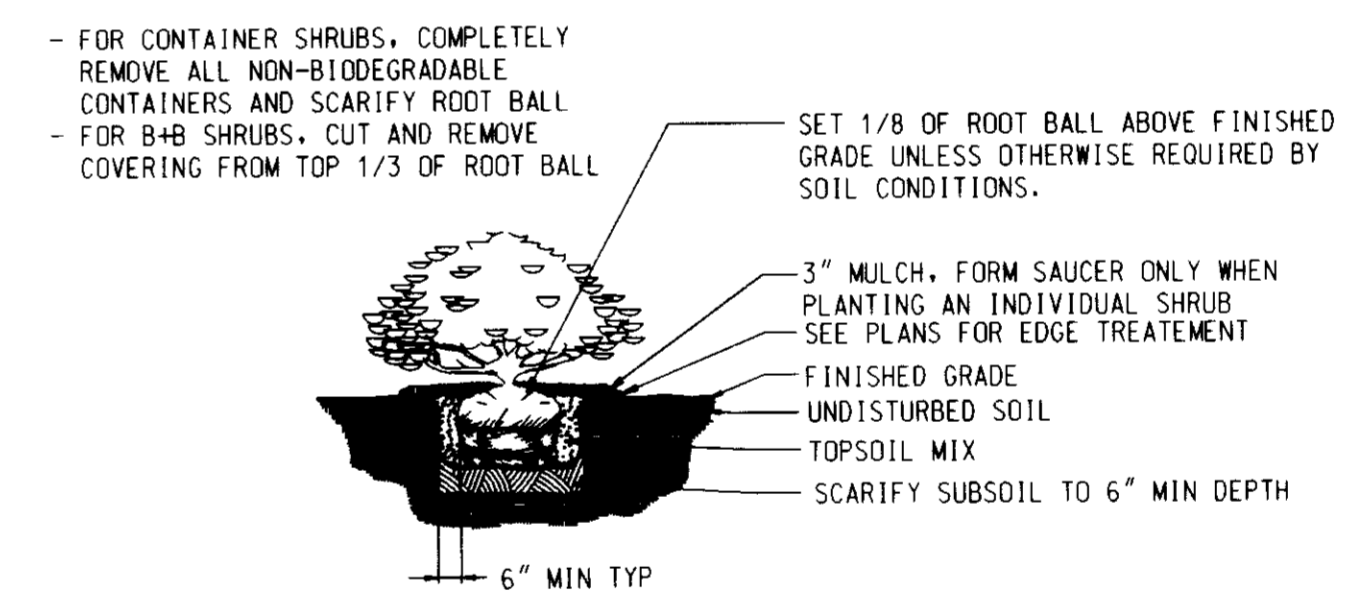
MARYLAND ROUTE 103-MONTGOMERY ROAD



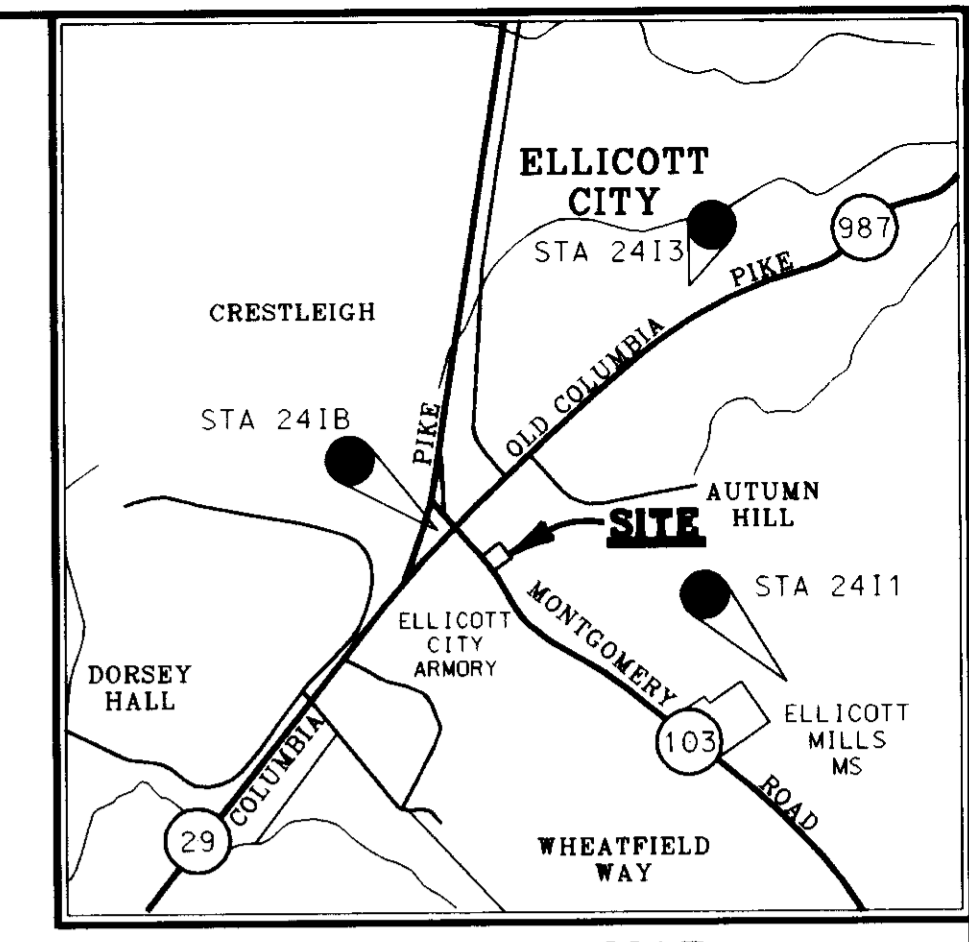
EVERGREEN TREE
 PLANTING DETAIL
 NOT TO SCALE



DECIDUOUS TREE PLANTING
 (UP TO 3\"/>



SHRUB PLANTING DETAIL
 NOT TO SCALE



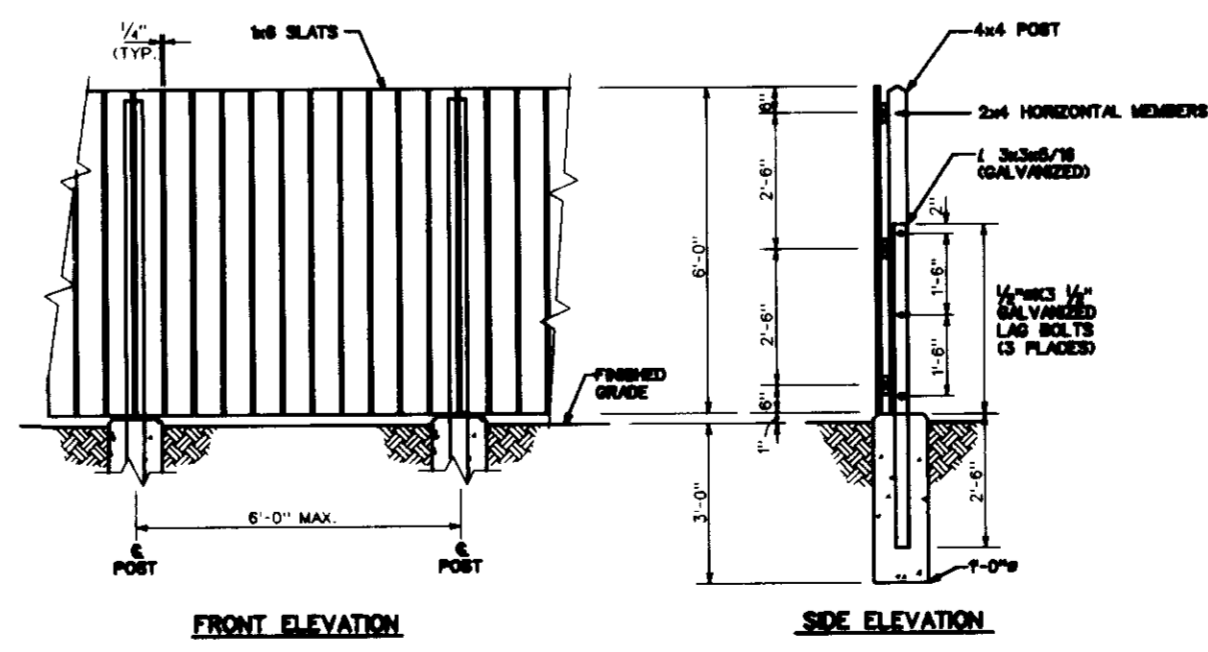
VICINITY MAP
 SCALE: 1" = 2000'

GENERAL PLANTING NOTES

- A. ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION.
- B. ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERMEN PROCEDURES AND SPECIFICATIONS.
- C. CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.
- D. PLANT MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- E. ALL PLANT BEDS AND PLANTING AREAS TO BE MULCHED TO A DEPTH OF 3" UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.
- F. ALL AREAS DISTURBED BY PLANTING OPERATION SHALL BE FINE GRADED AND SODDED.
- G. OBTAIN APPROVAL FROM ARCHITECT'S OR OWNER'S REPRESENTATIVE BEFORE MAKING ANY SUBSTITUTE OR CHANGES.
- H. ALL PLANT BEDS SHALL BE CONTAINED WITH A SPADED EDGE UNLESS OTHERWISE NOTED ON DRAWINGS.
- I. QUANTITIES SHOWN ON PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY AND ARE NOT GUARANTEED TO BE ACCURATE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLAN AND THE QUANTITIES SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL APPLY.
- J. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16-124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- K. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$1500.

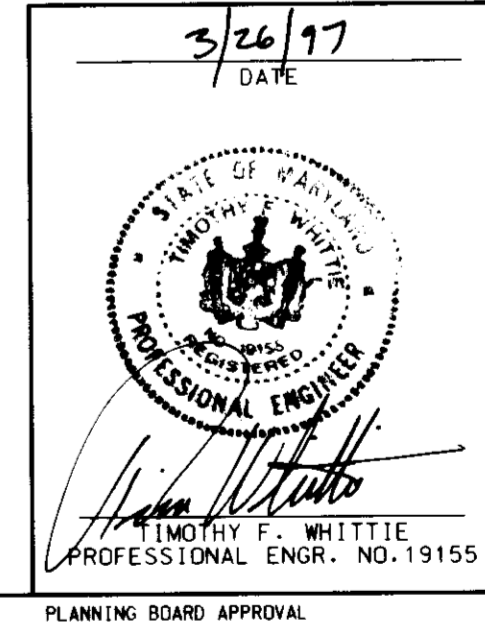
SYMBOL	QTY.	BOTANICAL/COMMON NAME	SIZE	REMARKS
	5	ACER PALUSTRIS PIN OAK	2-2 1/2" CAL 10' - 12' HT	B & B FULL
	6	ACER PLATANOIDES SUMMERSHADE SUMMERSHADE NORWAY MAPLE	2-2 1/2" CAL 10' - 12' HT	B & B FULL
	23	PINUS STROBUS WHITE PINE	6' - 8' HT 10' OC	B & B FULL
	25	EUONYMUS KIATCHOVICUS SIEBOLDIANA SIEBOLD EUONYMUS	2 1/2" HT 2-2 1/2" SPD	B & B FULL 3" OC
	200	PETUNIA X HYBRIDA RED AND WHITE PETUNIA	4" PDT CONT 8" OC	
	26	JUNIPERUS CHINENSIS PFITZERIANA PFITZER JUNIPER	18" - 24" HT 2-2 1/2" SPD	B & B FULL 3" O.C.
	25	BERBERIS THUNDERBOLT VAR. ATROPURPUREA JAPANESE RED BARBERRY	18" - 24" HT 2-2 1/2" SPD	B & B FULL 3" O.C.

CATEGORY	SCHEDULE A		
	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	B	A	C
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	132.63	150.10	393.80
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 3' EVERGREEN HEDGE 50 LF	NO	YES 30' HT. EVERGREEN TREES 170 LF
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	230 LF 6' - 0" HT WOOD FENCE
NUMBER OF PLANTS REQUIRED	2	3	4
SHADES TREES	2	0	8
EVERGREEN TREES	0	0	0
SHRUBS	0	0	0
NUMBER OF PLANTS PROVIDED	2	3	5
SHADES TREES	0	0	11
EVERGREEN TREES (OTHER TREES 1:2:1 SUBSTITUTION)	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0
30 SHRUBS SUBSTITUTED FOR TWO EVERGREEN TREES ALONG THE FRONT OF THE SITE, TO CONTINUE THE EX. EVERGREEN HEDGE.	30	0	0

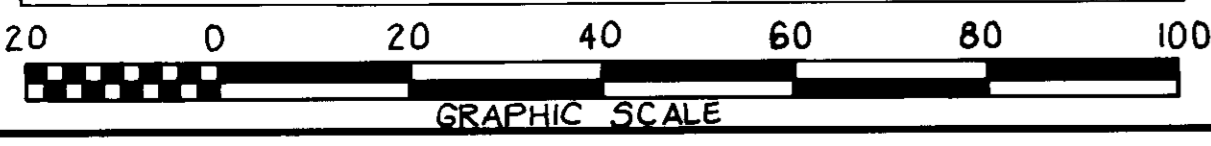


- GENERAL NOTES:
- ALL MATERIAL AND INSTALLATION BY G.C.
 - ALL LUMBER TO BE ROUGH SAWN CEDAR, GRADE #2 SELECT
 - FINISH APPLY ONE COAT OF JAMES-BLANK LATEX EDGEMAN TANN STAIN
 - CONCRETE: 3,000 PSI @ 30 DAYS

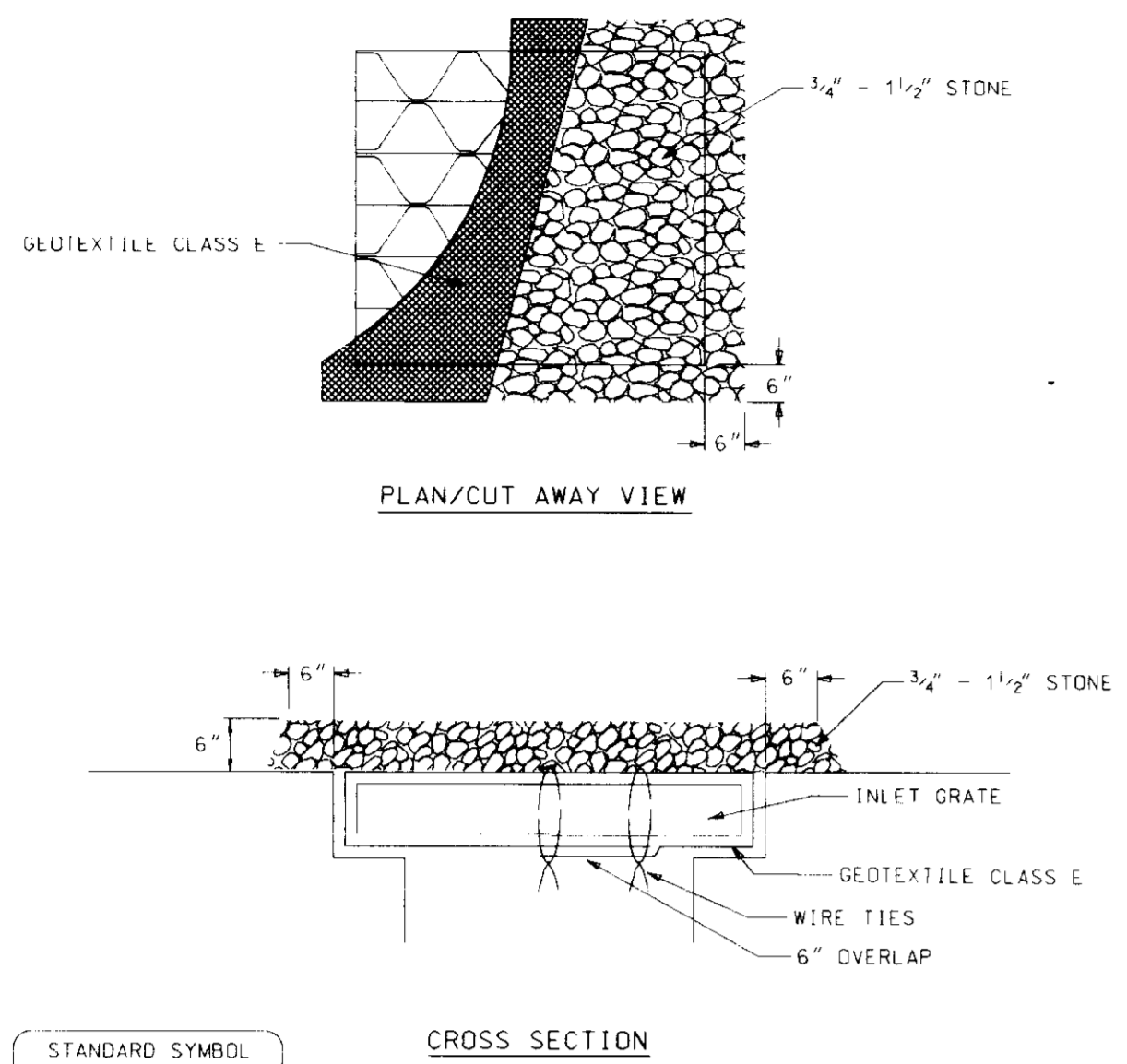
BEFORE BEGINNING CONSTRUCTION
 CONTACT
 "MISS UTILITY"
 AT
 1-800-257-7777
 AT LEAST 48 HOURS
 PRIOR TO EXCAVATION



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 DATE: 4/10/97
 DIVISION OF LAND DEVELOPMENT
 DATE: 4/29/97
 COUNTY HEALTH DEPARTMENT
 DATE: 4/25/97
 EXON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301)-513-7511



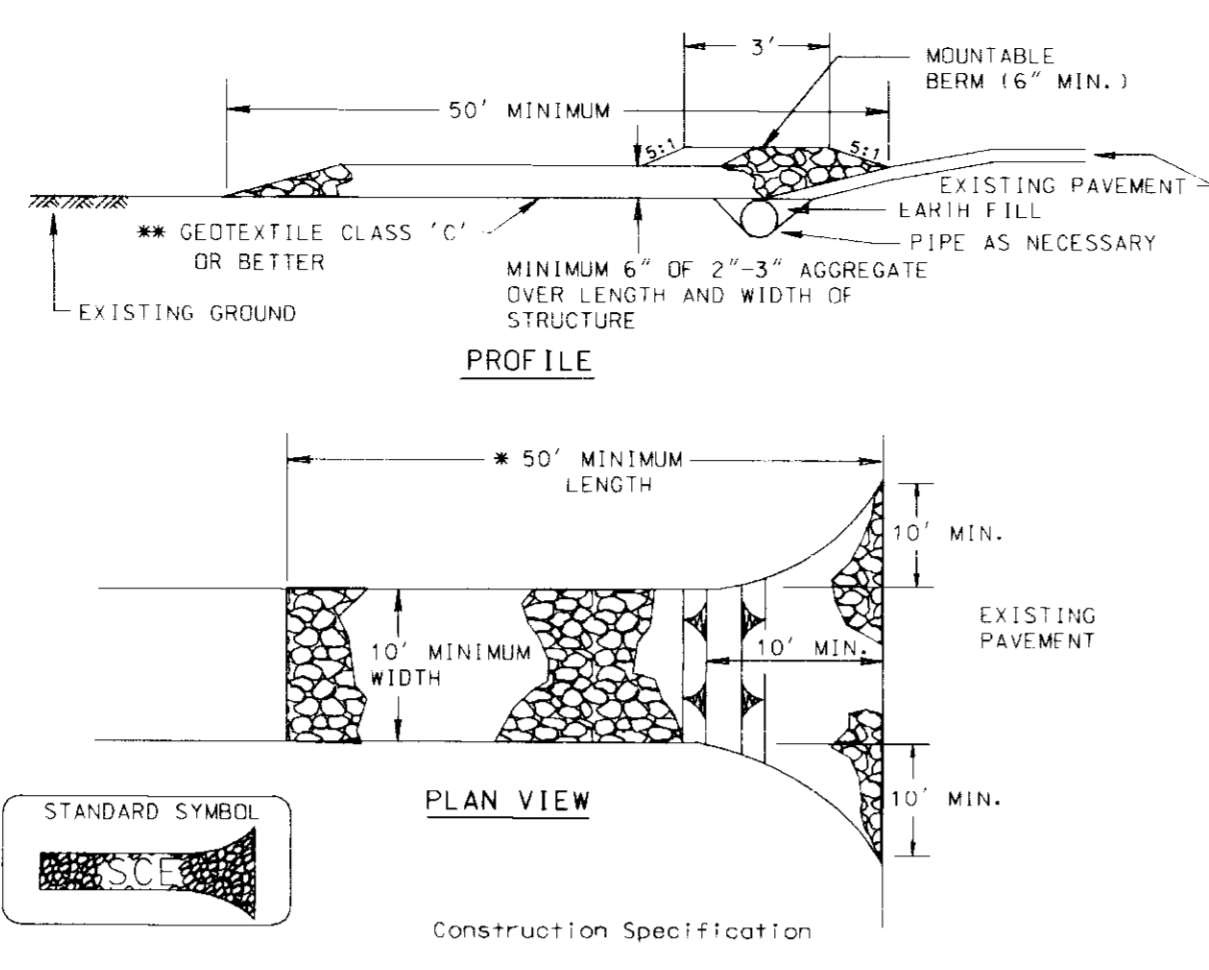
DETAIL 23B - AT GRADE INLET PROTECTION



Construction Specifications

- Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.
- Place 3/4" to 1 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

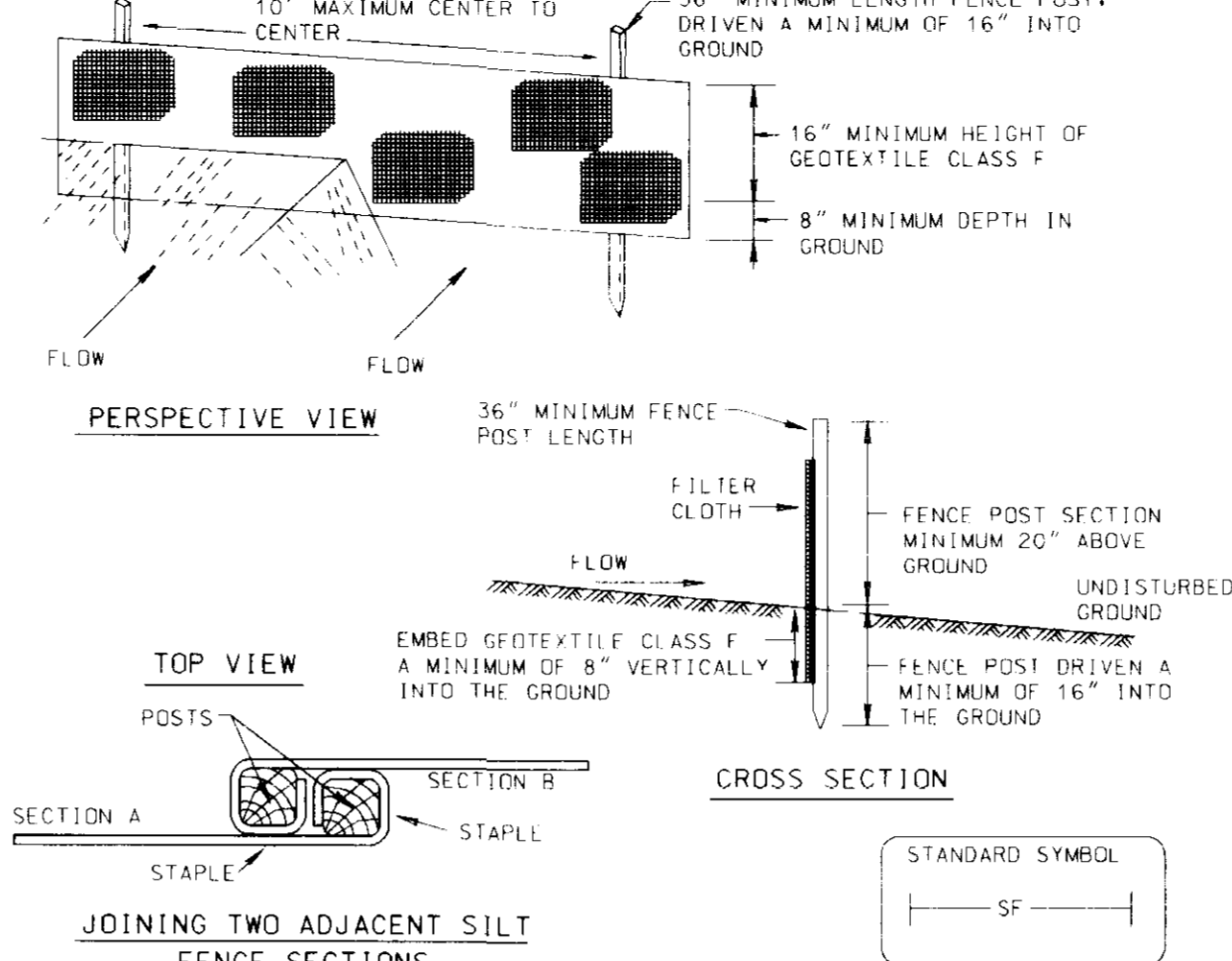
STABILIZED CONSTRUCTION ENTRANCE



Construction Specifications

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe shall be sized according to the drainage. When the SFC is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 22 - SILT FENCE



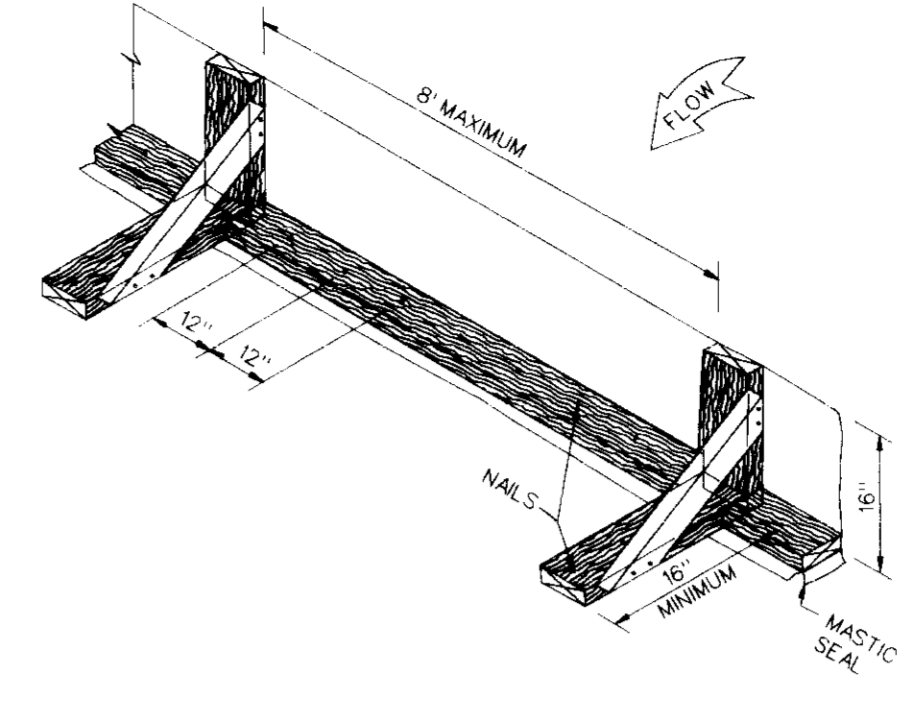
Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples of top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 (lbs/in. min.)	Test: MSMT 509
Tensile Modulus	20 (lbs/in. min.)	Test: MSMT 509
Flow Rate	0.3 gal./4 1/2" minute (max.)	Test: MSMT 322
Filtrating Efficiency	75% (min.)	Test: MSMT 322

- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8 15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



NOTES

- All finished lumber shall be 2" x 4" minimum.
- A mastic seal shall be provided, as shown, to prevent sediment laden water escaping untreated beneath silt fence installation.
- Silt fence fabric shall be taut and securely stapled to face of upright supports.
- Nails used to secure boards to pavement shall be 20d x 4" minimum length.
- Application design and materials criteria shall be as stated in the Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- Use SF/AP to designate on sediment control plan.

SILT FENCE INSTALLATION ON ASPHALT PAVEMENT

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH, PLUS OR MINUS 1/4" INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

SITE PREPARATION

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TEST. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B. BELOW.

- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS, 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

SOD INSTALLATION

- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.
- THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMPING AND PEGGING OR OTHER APPROVED METHODS.
- AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

SOD MAINTENANCE

- IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
- MAINTENANCE OF ESTABLISHED SOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 54-1.

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 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENEED).

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

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2" BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THROUGH 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 1/2 TO 2 TONS PER ACRE (70-90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALS. PER ACRE (5 GALS./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 3/4 GALS. PER ACRE (8 GALS./1000 SQ.FT.) FOR ANCHORING.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENEED).

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

- PREFERRED - APPLY 2 TONS PER ACRE 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 DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREA-FORM 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 DISC INTO UPPER THREE INCHES OF SOILS.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH 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 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GALS./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREA, ON SLOPES 8 FEET OR HIGHER, USE 3/4 GALLONS PER ACRE (8 GALS./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENT STATION.

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LITTLE OR NO BY VOLUME OF CONCRETE, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/2" IN DIAMETER.
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUADROGRASS, JOHNSONGRASS, MATRISOD, POISON IVY, HIBBLE, OR OTHERS AS SPECIFIED.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

IV. TOPSOIL APPLICATION

- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DAMS, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" 8" HIGHER IN ELEVATION.

V. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 6" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

VI. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

VII. THESE TOPSOIL SPECIFICATIONS HAVE BEEN EDITED FROM THE 1994 EROSION AND SEDIMENT CONTROL STANDARDS TO FIT THIS PROJECT. IT IS STILL THE INTENTION TO FOLLOW THE REFERENCED 1994 EROSION AND SEDIMENT CONTROL STANDARDS IN THEIR ENTIRETY.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

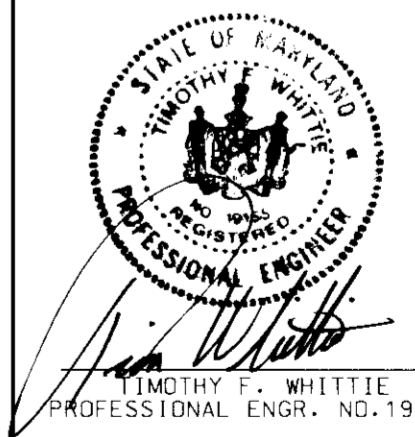
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION, PRIOR TO THE START OF ANY CONSTRUCTION. (315 1950)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL SLOPES STEEPER THAN 5:1, BY 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 PERMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF "HOWARD COUNTY DESIGN MANUAL", STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. C.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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	0.83 ACRES
AREA DISTURBED	0.69 ACRES±
AREA TO BE ROOFED OR PAVED	0.51 ACRES±
AREA TO BE VEGETATIVELY STABILIZED	0.18 ACRES±
TOTAL CUT	25 CUBIC YARDS
TOTAL FILL	130 CUBIC YARDS
OFFSITE WASTE/BORROW LOCATION	(TO BE DETERMINED)

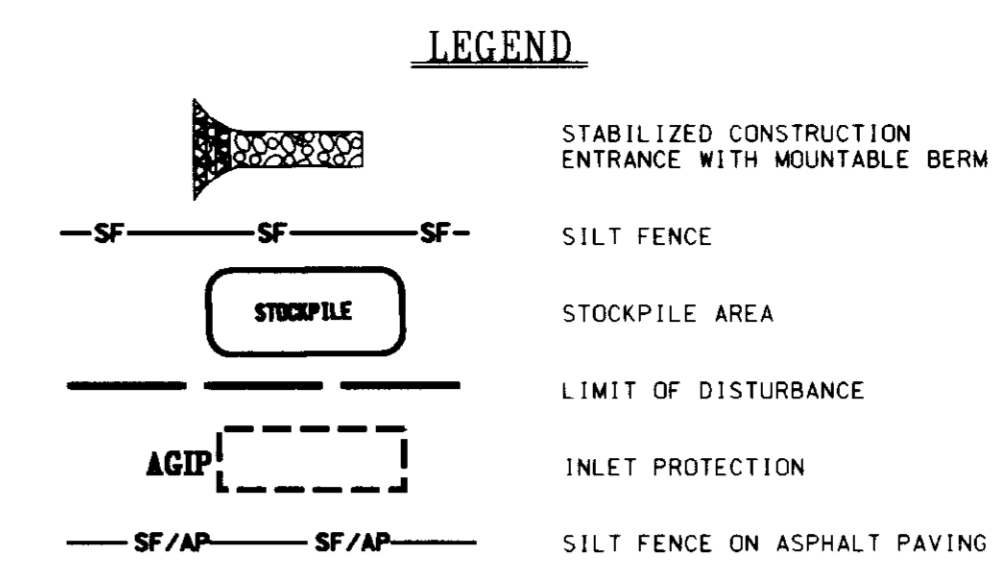
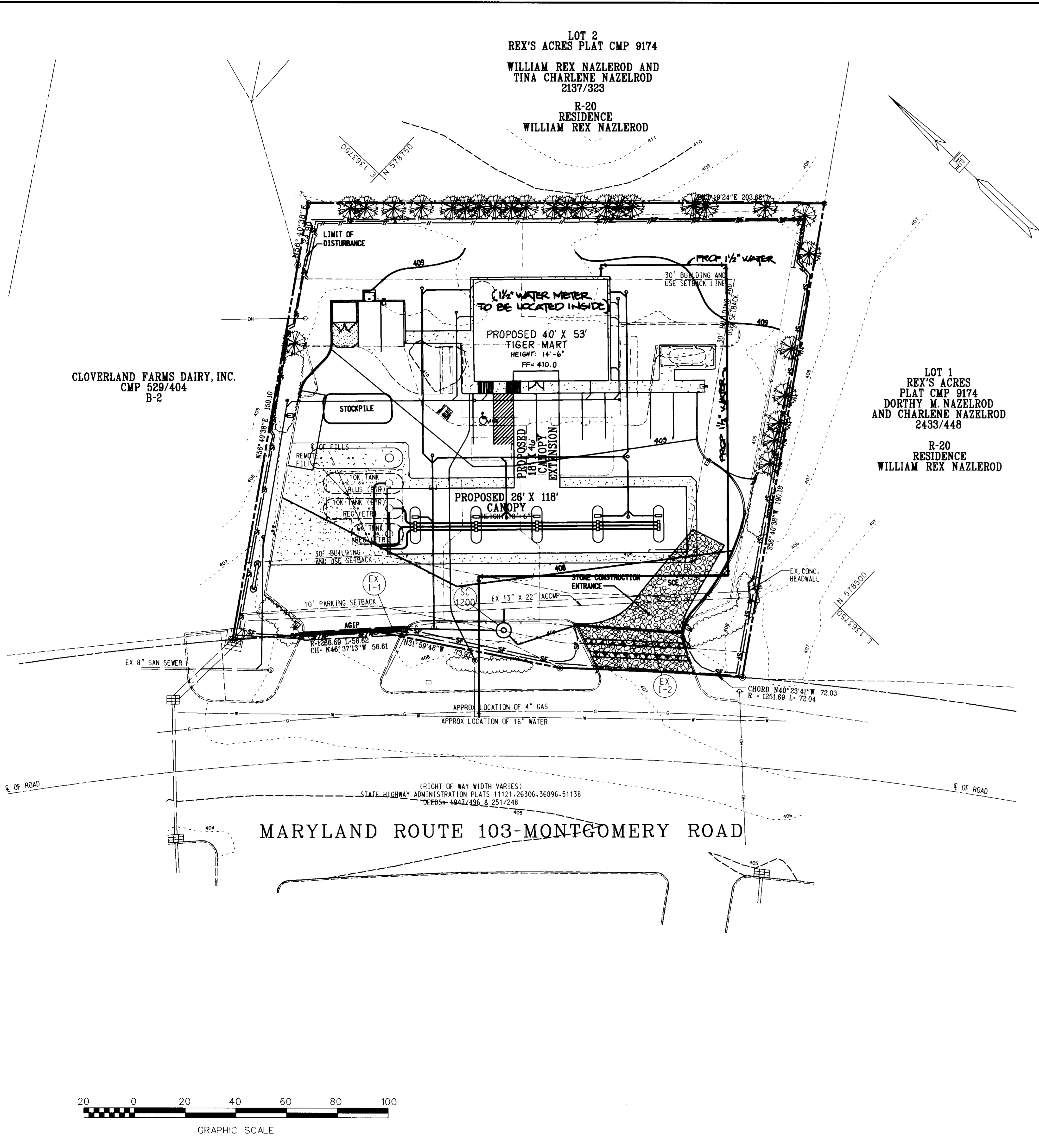
SITE MUST HAVE AN APPROVED GRADING PERMIT.

- 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 DEEDED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER 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 FEET LENGTHS OR THAT WHICH SHALL BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



DATE:	NUMBER:	REVISION DESCRIPTION:
BY THE ENGINEER:		
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.		
SIGNATURE OF ENGINEER		3/26/97 DATE
BY THE DEVELOPER:		
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE RESUMING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.		
SIGNATURE OF DEVELOPER		3/31/97 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.		
SIGNATURE OF DISTRICT ENGINEER		1/8/97 DATE
REVIEWED FOR HOWARD S.C.D. MEETS TECHNICAL REQUIREMENTS.		
SIGNATURE OF DISTRICT ENGINEER		
U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE		
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
SIGNATURE OF CHIEF ENGINEER		4/10/97 DATE
SIGNATURE OF DIVISION CHIEF		4/20/97 DATE
SIGNATURE OF DIRECTOR		4/23/97 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
SIGNATURE OF COUNTY HEALTH OFFICER		4-25-97 DATE
OWNER/DEVELOPER		
EXXON CORPORATION		
6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. ROBERT CASERTA PHONE: (301)-513-7511		
FREDERICK WARD ASSOCIATES, INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090		
FHA FILE: M:\PROJECTS\93385\ENGR\PE50719.DGN		
AREA TAX MAP 24 PARCEL 444 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615		
TITLE SEDIMENT AND EROSION NOTES AND DETAILS FOR AN EXXON STATION AT 4235 MONTGOMERY ROAD ELLICOTT CITY, MARYLAND 21043		
DESIGN BY: RSM	SCALE: 1" = 20'	PROJECT NO.: 93385-00 (CAD)
DRAWN BY: CP/EP	DATE: 12/02/96	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	09 OF 11

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



ESTIMATE OF SEDIMENT CONTROL QUANTITIES

STABILIZED CONSTR. ENTR. : 1 EACH
 INLET PROTECTION : 2 EACH
 SILT FENCE : 640 S.F.
 TOTAL DISTURBED AREA : 0.69 AC
 AREA TO BE VEGETATIVELY STABILIZED : 0.18 AC

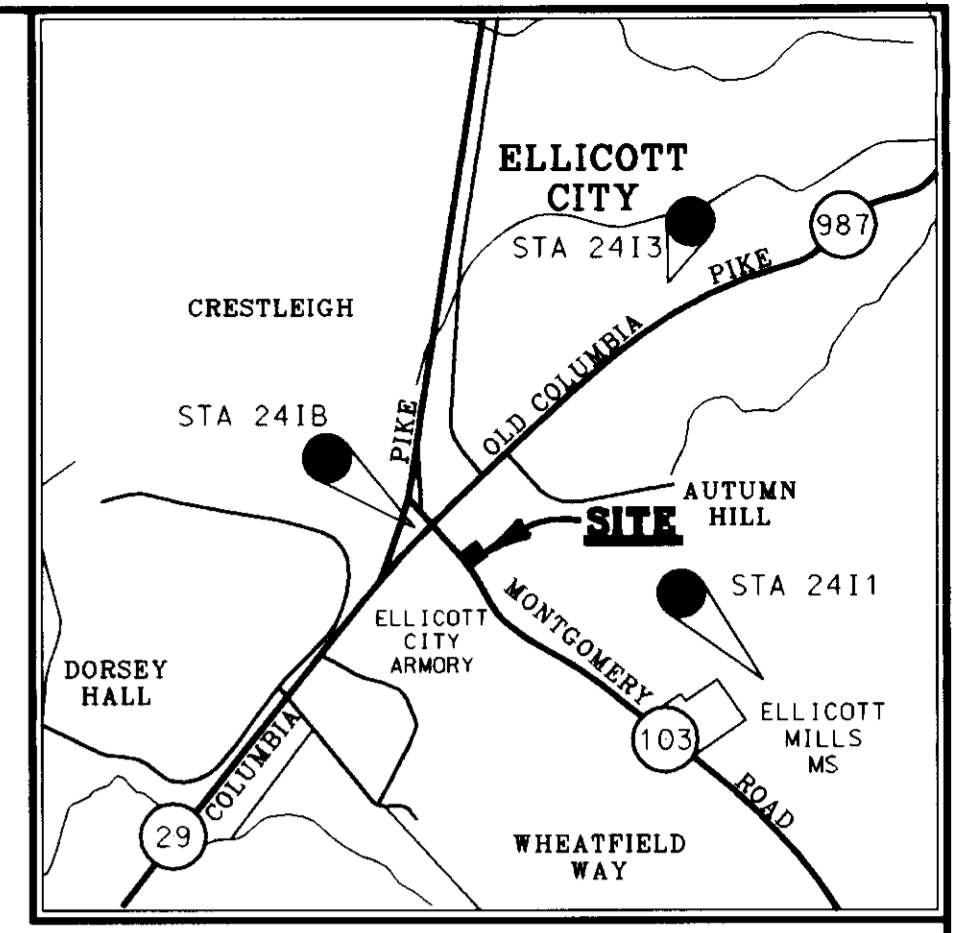
NOTE : THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.

SOIL TYPE

K8B2 - KELLY SILT LOAM
 3-8% SLOPES, MODERATELY BRODED.

SEQUENCE OF OPERATION

- OBTAIN HOWARD COUNTY GRADING PERMIT.
- NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
- WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, INSTALL SEDIMENT CONTROL DEVICES. (WEEK 1)
- REMOVE PAVED FEATURES AND SITE AMENITIES, AS INDICATED ON THE DEMOLITION PLAN TO AN APPROVED LOCATION. STRIP AND STOCKPILE TOPSOIL. (WEEK 2)
- INSTALL UTILITIES. (WEEK 3)
- INSTALL TIGER MART AND MPO'S. (WEEK 5 - 10)
- INSTALL CURB AND GUTTER, BASE AND PAVING. FINE GRADE SITE. (WEEK 10)
- INSTALL LANDSCAPING AND STABILIZE ANY REMAINING DISTURBED AREAS. (WEEK 11)
- WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES. (WEEK 12)



DATE	NUMBER	REVISION DESCRIPTION
11/5/97		changed 1" to 1 1/2" water line

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."

Timothy F. Whittle
 SIGNATURE OF ENGINEER 3/26/97 DATE

BY THE DEVELOPER:
 "I HEREBY 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."

John J. Hamilton
 SIGNATURE OF DEVELOPER 3/31/97 DATE

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

John J. Hamilton 4/8/97
 HOWARD S.C.D.

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

Charles J. Hamilton 04-08-97
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

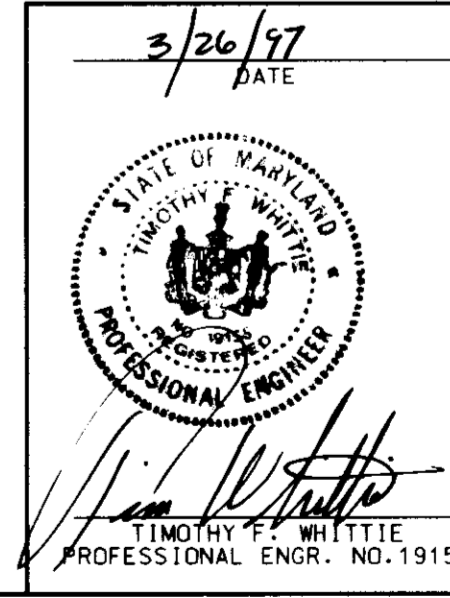
APPROVED: DEPARTMENT OF PLANNING AND ZONING
John J. Hamilton 4/10/97 DATE
 CHIEF-DEVELOPMENT ENGINEERING DIVISION

John J. Hamilton 4/28/97 DATE
 DIVISION OF LAND DEVELOPMENT

John J. Hamilton 4/23/97 DATE
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
Joseph M. Hamilton 4-25-97 DATE
 COUNTY HEALTH OFFICER

OWNER/DEVELOPER: **EXXON CORPORATION**
 6301 IVY LANE SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301) 513-7511
 RAS NO.: 2-2724

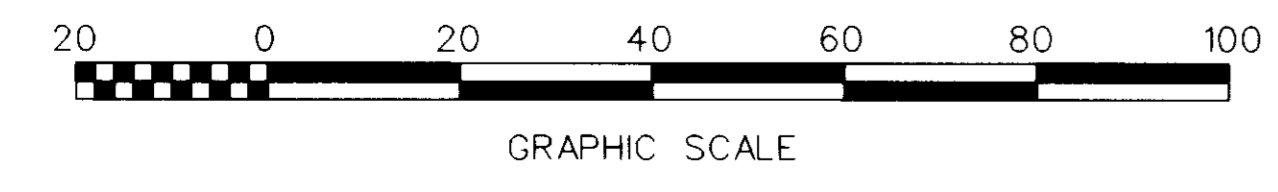


PLANNING BOARD APPROVAL

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

FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410) 879-2090

DESIGN BY: RBM	SCALE: 1" = 20'	PROJECT NO.: 93385-00 (CAD)
DRAWN BY: CP/LF	DATE: 12-02-96	DRAWING NUMBER: 93385-00 (LACCT)
CHECKED BY: TFW	APPROVED:	08 OF 11



GENERAL NOTES

- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL OPENINGS TO STRUCTURES SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- VARIOUS TYPES OF EQUIPMENT ARE AVAILABLE COMMERCIALY FOR THE CLEANOUT OF SYSTEMS. THE MOST COMMONLY USED EQUIPMENT USED FOR CLEANING SUBSURFACE SYSTEMS ARE VACUUM TRUCKS AND WATERJET SPRAY. BOTH SYSTEMS ARE GENERALLY MOUNTED ON A SELF-CONTAINED VEHICLE AND CAN EFFECTIVELY REMOVE STONES, LEAVES, LITTER, AND SEDIMENT DEPOSITS FROM SUMPS AND CHAMBERS.

**CONTRACTOR INSTALLATION INSTRUCTIONS
PRECAST CONCRETE STORMCEPTOR**

FOR TECHNICAL INFORMATION CALL STORMCEPTOR CORPORATION AT 1-800-762-4703 OR STORMCEPTOR CANADA AT 1-800-565-4801

- STAKE-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED AGGREGATE SUBBASE AT BOTTOM OF EXCAVATION. INSTALL MULE OR SHORING, AS NEEDED.
- CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM BASE OF THE STORAGE CHAMBER (BOTTOM OF UNITS SLAB) TO THE INVERT OF STORMCEPTOR BYPASS CHAMBER INLET ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN INVERT ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED.
- SECURE INSPECTOR APPROVAL OF SUBGRADE AND SUBBASE.
- INSTALL STORAGE CHAMBER. INSTALL SCREW INSERTS INTO BASE OF STORAGE CHAMBER. ATTACH CABLES OR CHAINS TO ALL 3 LIFTING LUGS ON THE BASE SLAB. USING LARGE EQUIPMENT OR CRANE LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAMBER IN THE EXCAVATED HOLE ON THE SUBBASE. MAKE SURE THAT THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT REQUIRED. INSTALL RUBBER GASKET ON BASE UNIT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT). IF NOT PRELUBRICATED. INSTALL ADDITIONAL STORAGE CHAMBER SECTIONS, AS REQUIRED (PROCEDURE IS SAME AS STEP B).
- (FOR STORMCEPTOR MODELS SMALLER THAN STC-2000 SKIP STEP 5 AND GO TO STEP 6)
- INSTALL REDUCING SLAB. (STORMCEPTOR MODELS > STC 2000) CHECK THAT SECTION IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT).
- INSTALL BYPASS CHAMBER OF STORMCEPTOR WITH FACTORY INSTALLED STORMCEPTOR INSERT. LIFT BYPASS SECTION AND INSTALL, WHILE CHECKING ALIGNMENT AND GRADE OF INLET AND OUTLET DRAINAGE PIPES. CHECK TO MAKE SURE THE BYPASS CHAMBER IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. THE BYPASS CHAMBER MUST BE ORIENTED SUCH THAT INLET PIPE DISCHARGES INTO THE V-SHAPED FIBERGLASS WEIRS (INSIDE INSERT). INSTALL RUBBER GASKET ON TOP OF BYPASS SECTION AND COAT WITH LUBRICATING GREASE. IF NOT PRELUBRICATED.
- INSTALL INLET AND OUTLET STORM DRAIN PIPES. CONNECT INLET AND OUTLET STORM DRAIN PIPES WITH FLEXIBLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINK GROUT WHEN NO FLEXIBLE BOOTS ARE PROVIDED. THE INVERT OF THE INLET AND OUTLET PIPE IS TO MATCH WITH THE INVERT OF THE STORMCEPTOR INSERT. FLEXIBLE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND/OR THE INSIDE OF THE BOOT IF THE PIPE OUTSIDE DIAMETER IS THE SAME AS THE INSIDE DIAMETER OF THE BOOT. POSITION THE PIPE CLAMP IN THE GROOVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP SCREW TO 60 INCH POUNDS. IF THE PIPE IS MUCH SMALLER THAN THE BOOT LIFT THE BOOT SUCH THAT IT CONTACTS THE BOTTOM OF THE PIPE WHILE TIGHTENING THE CLAMP TO ENSURE EVEN CONTRACTION OF THE RUBBER. MOVE THE PIPE HORIZONTALLY AND/OR VERTICALLY TO BRING IT TO GRADE.
- INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STC PIPE INSTALLATION PROCEDURE ON REVERSE SIDE OF THESE INSTRUCTIONS.
- INSTALL RISER SECTION. LIFT RISER SECTION AND INSTALL, WHILE CHECKING THAT SECTION IS SET FLUSH AND IS AT PROPER ELEVATION AND THAT UNIT IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS REQUIRED IF STEP(S) ARE INCLUDED. ALIGN STEPS ABOVE OUTLET INSPECTION PORT. NOTE, FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOT BE REQUIRED.
- INSTALL TOP CAP WITH OPENING FOR STORMCEPTOR COVER. IF OPENING IS OFFSET (NOT CENTERED) THE TOP CAP OPENING SHOULD BE ORIENTED ABOVE THE STORMCEPTOR OUTLET INSPECTION PORT (PLUG).
- BACKFILL STORMCEPTOR WITH APPROVED BACKFILL MATERIAL (NO ORGANIC OR TOPSOIL IS TO BE USED FOR BACKFILL). BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL SHOULD BE COMPACTED TO LOCAL/STATE/PROVINCE REQUIREMENTS.
- INSTALL AND SET GRADE ADJUSTING RINGS, AS NEEDED.
- INSTALL AND SET STORMCEPTOR FRAME AND COVER. SECURE MH FRAME TO TOP SLAB TO PREVENT HORIZONTAL MOVEMENT.
- THE STORMCEPTOR SHOULD BE PUMPED OUT WHEN THE SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED), AND FILLED WITH CLEAN WATER.
- FINAL INSPECTION.

WATER QUALITY MAINTENANCE NOTES

- INSPECT THE STORMCEPTOR ON A MONTHLY BASIS AND NOTE SEDIMENT AND OIL ACCUMULATIONS. MORE FREQUENT INSPECTIONS ARE APPROPRIATE WHERE OIL SPILLS OCCUR REGULARLY. STORMCEPTOR CANADA INC. CAN PROVIDE ADVICE ON SAMPLING EQUIPMENT.
- SEDIMENT SHOULD BE REMOVED ANNUALLY, OR WHENEVER THE ACCUMULATION REACHES 50% OF THE OPERATING DEPTH. FROM BASE TO DRAIN INVERT. MORE FREQUENT REMOVAL OF SEDIMENTS MAY BE NECESSARY IN AREAS OF NEW CONSTRUCTION, OR WHERE VEGETATION HAS NOT YET BEEN ESTABLISHED.
- VACUUM TRUCKS ARE USED TO REMOVE THE SEDIMENT AND OIL FROM THE STORMCEPTOR TREATMENT CHAMBER. OIL LEVELS GREATER THAN 2.5 CM SHOULD BE REMOVED IMMEDIATELY BY A LICENSED WASTE MANAGEMENT FIRM, AND SIGNIFICANT SPILLS MUST BE REPORTED TO THE APPROPRIATE REGULATORY AGENCY.
- THE PIPES AND STRUCTURAL PARTS SHALL BE CLEANED AND REPAIRED AS NEEDED. REPAIR AND/OR REPLACEMENT OF PARTS SHALL BE IN KIND.
- ALL MAINTENANCE SHALL BE PERFORMED BY THE OWNER OR BY THE OWNER'S REPRESENTATIVE AT THE OWNER'S EXPENSE.
- MINIMIZE SURFACE EROSION FROM PVIOUS SURFACES AT ALL TIMES! MAINTAIN GRASS, SOD, AND/OR MULCH COVERED UPON LANDSCAPINGS.
- REMOVE DEBRIS ON TOP OF INLET GRATES AFTER EVERY REINFALL, AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLETS AND STRUCTURES.
- AT INTERVALS NOT EXCEEDING 1 YEAR, OR AS NEEDED, REMOVE ALL GREASE
- THE DISPOSAL OF THE LIQUID AND SLID MATTER SHOULD BE AS FOLLOWS:
 - 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.
 - THE SLID MATERIAL SHALL BE DELIVERED TO AN APPROVED SANITARY LANDFILL.

11352 Virginia Precast Road, Ashland, VA 23005 (804) 798-6068

Hydro Conduit
STORMCEPTOR DISK TYPE
FIBERGLASS INSERT DETAIL

DR. BY: EPDM
CK. BY: RCH
DATE: 1-16-97
SCALE: 3/8" = 1'-0"
DWG.# CA-0225-01

PLAN

GENERAL NOTES:

- CSR HYDRO CONDUIT RECOMMENDS THE USE OF FLEXIBLE PIPE CONNECTORS AT THE INLET PIPE AND OUTLET PIPE WHERE APPLICABLE.
- STORMCEPTOR FRAME AND COVER TO BE POSITIONED OVER OUTLET DROP PIPE.
- INSERT TO BE INSTALLED WITH SIX 1/2" DROP-IN ANCHORS AND BOLTS.
- INSERT TO BE SEALED AROUND CIRCUMFERENCE WITH CHEMEX 948.

UNIT	A (in.)	B (in.)	C (in.)
STC 900	16	6	16
STC 1200	16	6	16
STC 1800	16	6	16
STC 2400	44	8	44
STC 3600	44	8	44
STC 4800	44	10	44
STC 6000	44	10	44
STC 7200	44	12	44

REV.	DESCRIPTION	BY:	DATE

11352 Virginia Precast Road, Ashland, VA 23005 (804) 798-6068

Hydro Conduit
STC 1200
PRECAST CONCRETE STORMCEPTOR

DR. BY: EPDM
CK. BY: RCH
DATE: 12-17-96
SCALE: 1/4" = 1'-0"
DWG.# CA-0225-03

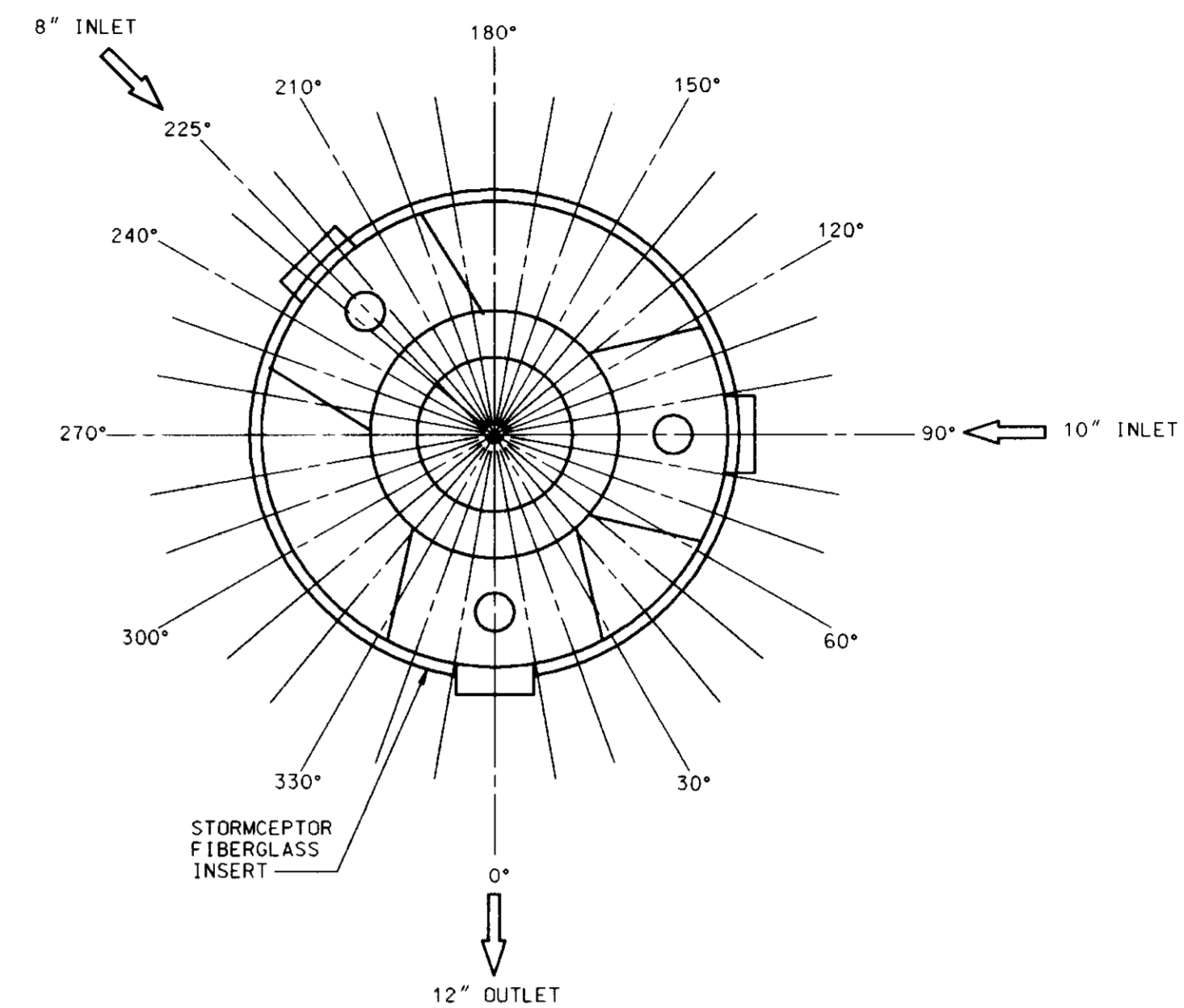
PLAN
(FRAME AND COVER NOT SHOWN FOR CLARITY)

GENERAL NOTES:

- STORMCEPTOR SECTIONS SHALL CONFORM TO ASTM C 478. PROFILE GASKETED JOINTS CONFORMING TO ASTM C 443.
- MANHOLE STEPS PROVIDED ABOVE INSERT @ 12" O.C. AND SHALL BE COPOLYMER POLYPROPYLENE PLASTIC ENCAPSULATED GR. 60 STEEL.
- MINIMUM CONCRETE STRENGTH f'c = 4,000 PSI
MINIMUM STEEL STRENGTH f_y = 60,000 PSI
- REINFORCEMENT DESIGN SHALL MEET ASTM C 478.
- FLEXIBLE PIPE CONNECTORS SHALL MEET ASTM C 923.
- HANDLING:
 - ALL RISERS SHALL HAVE 2 EA. 1" O.D. HOLES FOR LIFTING @ 1/3 WAY DOWN FROM SPIGOT.
 - ALL LG. DIAM. BASE SECTIONS FLATTOPS AND REDUCERS TO HAVE LIFT HOOKS.
- DESIGNED FOR AASHTO H-20 LOADING.
- FIBERGLASS STORMCEPTOR INSERT REFERENCE DRAWING # CA-0225-01

SECTION

REV.	DESCRIPTION	BY:	DATE



NOTES

TOTAL SITE AREA = 0.83 AC
 PROPOSED STORMCEPTOR INLET PIPE = 8" AND 10" PVC
 PROPOSED STORMCEPTOR OUTLET PIPE = 10" PVC
 THE FIRST 1/2' OF RUNOFF FROM ALL IMPERVIOUS AREA WILL BE TREATED THROUGH THE STORMCEPTOR
 IMPERVIOUS AREA TO STORMCEPTOR = 0.51 AC
 @ 0.5 = 0.5 x AM x O x FP
 = (1010) x (.51/640) x (.5) x (1)
 @ 0.5 = 0.40 cfs
 @ 0.5 = 179.52 gpm

MODEL	MAXIMUM TREATED DLOWRATE gpm	TOTAL CAPACITY GAL. (LITRES)	OIL HOLDING CAPACITY GAL. (LITRES)	SEDIMENT HOLDING CAPACITY GAL. (LITRE)	DEPTH INCHES/MM D	TANK BODY INCHES/MM (DIA)
STC-L1200	238/18.0	1000/4545	255/1023	675/3068	(83/2108)+Y	72/1830

**Stormceptor® GASKET
INSTALLATION INSTRUCTIONS**

GUIDELINES FOR ASSEMBLING PROFILE GASKETS ON A SINGLE STEP Stormceptor® JOINT

11352 Virginia Precast Road, Ashland, VA 23005 (804) 798-6068

- The Stormceptor® section should be handled with care to avoid any chipping of the bell or spigot.
- Carefully clean all dirt and debris from the spigot, including the step seating area of the gasket. Clean the inside area of the bell.
- Place the profile gasket in the step of the "dry" spigot. Verify that the pointed end of the gasket is directed towards the shoulders of the spigot. (See Figure 1)
- Insert a smooth, round rod, such as a screwdriver, between the gasket and the spigot. Be careful not to cut or lacerate the gasket. Equalize the gasket stretch by running the rod around the entire circumference several times.
- Apply joint lubricate to the inner surface of the bell including the leading edge. Lubricate the spigot and gasket.
- Align the Stormceptor® sections (spigot with the bell). Verify that the gasket touches the lead-in taper around the entire circumference.
- Gently push the joint home. Note that every section will not home exactly the same. (See Figure 2)

If jointing problems arise, do not force the Stormceptor® sections together (cracking may occur). Contact CSR Hydro Conduit immediately.

Figure 1

Figure 2

REQUIRED PROCEDURES AND INSPECTIONS FOR INGROUND WATER QUALITY FACILITY

THE FOLLOWING INSPECTIONS ARE REQUIRED DURING CONSTRUCTION: (ADDITIONAL INSPECTIONS MAY BE REQUIRED AND NOTED BY THE INSPECTOR.)

- PRECONSTRUCTION MEETING: AN OPPORTUNITY TO REVIEW SITE PLANS, DISCUSS THE PURPOSE OF THE FACILITY AND TO ANSWER QUESTIONS REGARDING CONSTRUCTION AND/OR INSPECTION PROCEDURES.
- CONSTRUCTION: INSPECTION(S) WILL BE MADE DURING THE CONSTRUCTION OF THE FACILITY TO ENSURE ACCORDANCE WITH THE PLANS. SPECIFIC INSPECTION REQUIREMENTS WILL BE DETERMINED AT THE PRECONSTRUCTION MEETING. INSPECTIONS TO BE MADE AT, BUT NOT LIMITED TO, THE FOLLOWING INSTALLATION STEPS:
 - INSTALLATION OF SUBGRADE AND SUBBASE
 - FINAL INSPECTION

SEQUENCE OF CONSTRUCTION AND INSPECTOR'S CHECK-OFF LIST FOR SWM FACILITIES			
STAGE	DEVELOPER'S/ENGINEER APPROVAL	INSPECTOR'S APPROVAL	
	INITIALS	DATE	INITIALS
1. PRE-CONSTRUCTION MEETING: *			
2. INSTALLATION OF STRUCTURES AND ASSOCIATED STORM DRAINAGE*			
3. SITE IS PERMANENTLY STABILIZED, SEDIMENT CONTROL MEASURES REMOVED AND ALL SEDIMENT AND DEBRIS REMOVED FROM THE STRUCTURE.*			
4. FINAL INSPECTION: *			

NOTE: SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED REQUIREMENTS.

* MANDATORY NOTIFICATION/APPROVAL OF INSPECTOR PRIOR TO PROCEEDING WITH NEXT STAGE.

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

Stormceptor® Order Request Form

Contractor Information

Name _____
 Address _____
 City _____
 State _____
 Zip Code _____
 Contact _____
 Phone _____
 Fax _____

Office Use Only

Order# _____
 Date _____
 Internal Sale _____

Owner Information

Name EXXON CORPORATION
 Phone (301) 513-7511
 Fax (301) 513-7532

Please draw orientation of inlet and outlet pipes on diagram along with pipe inside diameter (in.) and invert elevation (ft.). Clearly mark inlet pipes with an I and outlet pipes with an O and provide the inlet/outlet pipe angle in degrees.

Stormceptor® Model	Insert Size	Manhole
STA STC-L		
900 <input type="checkbox"/> 3600 <input type="checkbox"/>	22" <input checked="" type="checkbox"/>	Top Elevation (ft.) 408.7 Inlet Pipe Invert (ft.) 405.5 Outlet Pipe Invert (ft.) 405.4
1200 <input checked="" type="checkbox"/> 4800 <input type="checkbox"/>	32" <input type="checkbox"/>	Pipe Type: PVC
1800 <input type="checkbox"/> 6000 <input type="checkbox"/>	44" <input type="checkbox"/>	Pipe Inside Diameter (in) [I] N/A Pipe Outside Diameter (in) [O] N/A
2400 <input type="checkbox"/> 7200 <input type="checkbox"/>	Custom	

Project Name EXXON STATION RAS #2-2724
 Approximate time frame until required delivery (weeks) _____
 Delivery Address: Street 4235 MONTGOMERY ROAD
 City ELLICOTT CITY State MD Zip Code 21043
 Designer Company FREDERICK WARD ASSOC., INC.
 Designer Contact T. WHITTE Phone (410) 838-7900 Fax (410) 893-1243

Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426
 Attn: Dave Briner/Bryant Lowery (Phone: 1-800-999-2278)

For credit information/applications contact Carole Broadus at (804) 798-6068
 For Technical Assistance Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1-800-762-4703

09/12/95

3/26/97
DATE

TIMOTHY F. WHITTLE
PROFESSIONAL ENGR. NO. 19155

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John Hamilton 4/10/97
CHIEF-DEVELOPMENT ENGINEERING DIVISION # DATE

Janis Hamilton 4/29/97
-DIVISION OF LAND DEVELOPMENT # DATE

Bryant Lowery 4/29/97
DIRECTOR DATE

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

John M. Broadus 4-25-97
COUNTY HEALTH OFFICER # DATE

OWNER/DEVELOPER **EXXON CORPORATION**
 6301 IVY LANE SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301)-513-7511

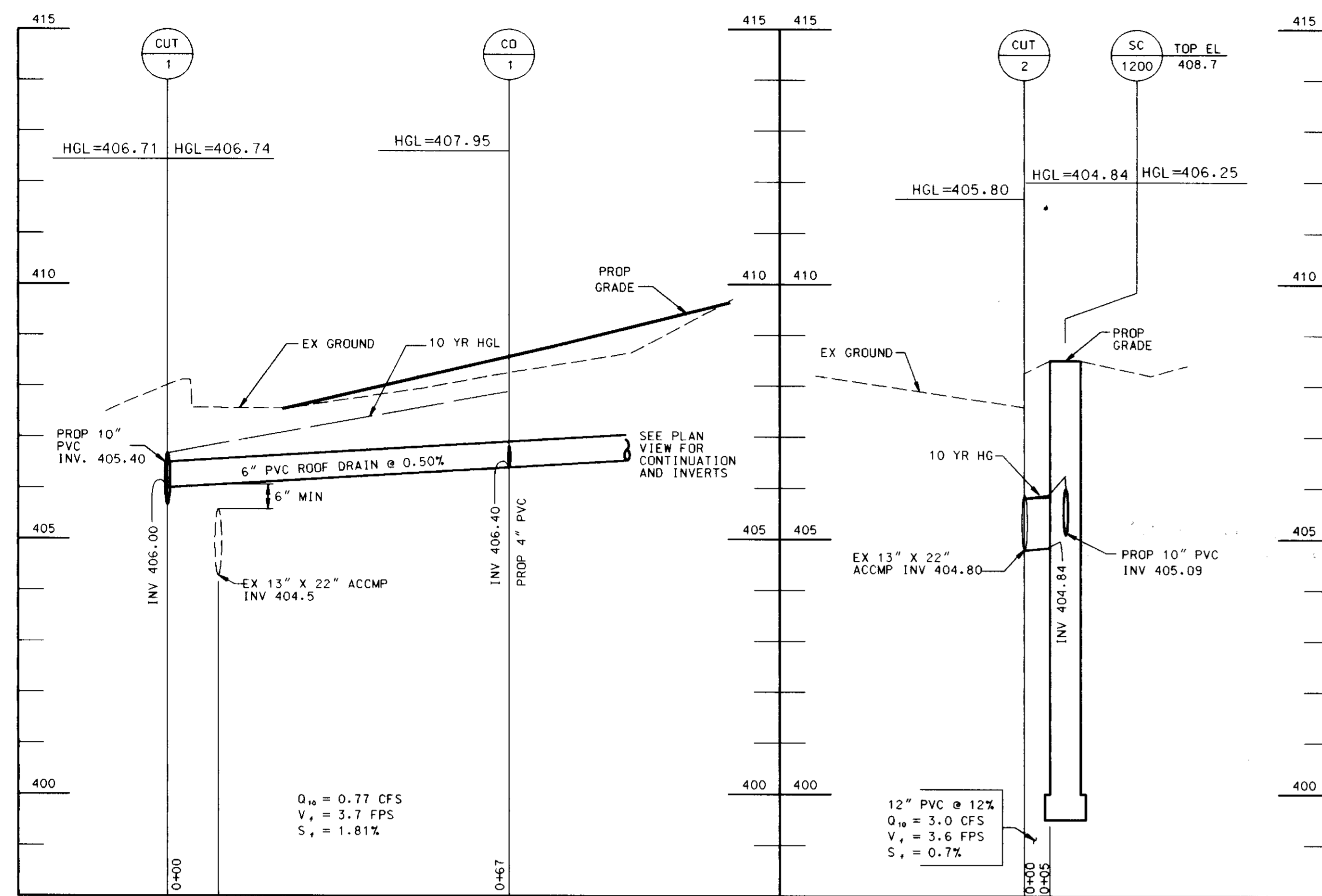
RS# NO.: 2-2724

FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090

AREA TAX MAP 24 PARCEL 444
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CENSUS TRACT 6028 WATER CODE F04 SEWER CODE S750615

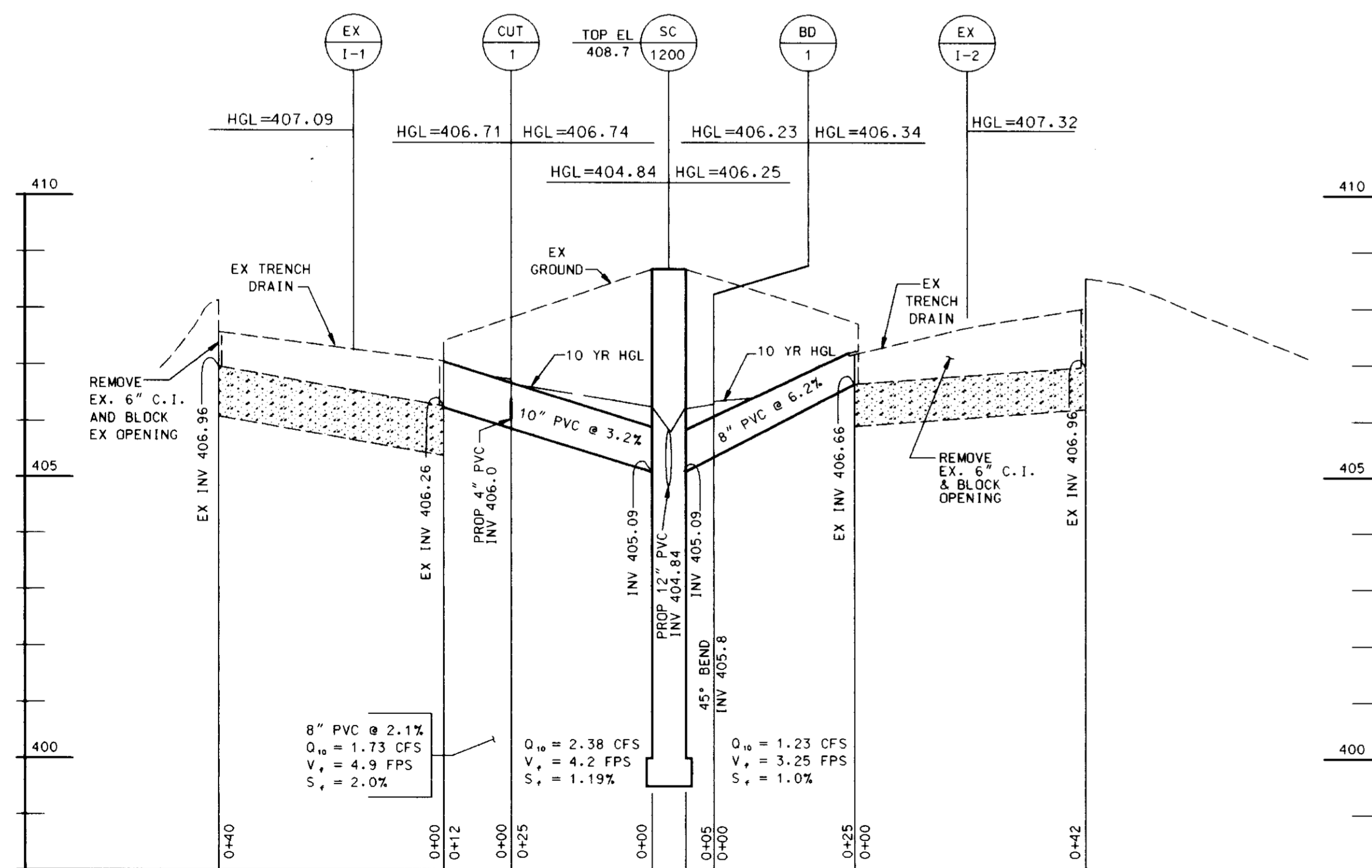
TITLE **STORMCEPTOR NOTES AND DETAILS**
 FOR AN EXXON STATION AT
4235 MONTGOMERY ROAD
ELLICOTT CITY, MARYLAND 21043

DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 9385-00 (CA01)
 DRAWN BY: CP/LF DATE: 12/02/96 SHEET NO. 98124-00 (A021)
 CHECKED BY: TFV APPROVED: DRAWING NUMBER 07 OF 11



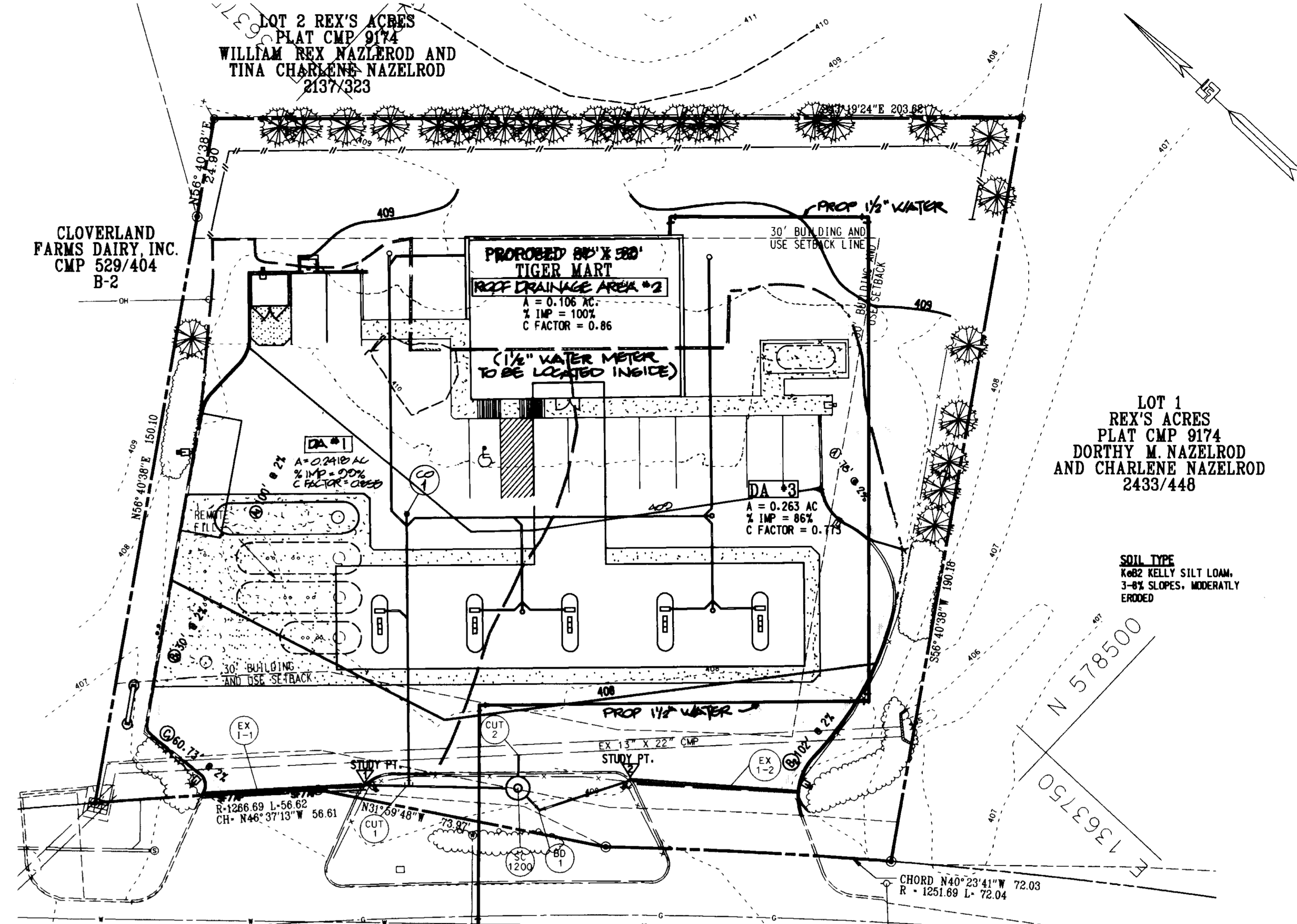
STORM DRAIN PROFILES

SCALE: VERT 1" = 2"
HORIZ 1" = 20'



STORM DRAIN PROFILE

SCALE: VERT 1" = 2"
HORIZ 1" = 20'



MARYLAND ROUTE 103-MONTGOMERY ROAD

DRAINAGE AREA MAP FOR STORM DRAIN

SCALE: 1" = 20'

LEGEND

- 261 --- EXISTING CONTOUR
- 263 --- PROPOSED CONTOUR
- + 232.95 PROPOSED SPOT ELEVATION
- + EX 232.95 EXISTING SPOT ELEVATION
- >--- PROPOSED FLOW ARROWS
- T. I. 229.8 TOP OF ISLAND ELEVATION
- C.O. CLEAN OUT
- BD BEND
- TC TIME OF CONCENTRATION

Revisions
DATE: 11/3/97
changed Ex 1" to 1 1/2" water line

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John P. Williams 4/10/97 DATE
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
Conita Hamilton 4/29/97 DATE
 DIVISION OF LAND DEVELOPMENT
Joseph R. Kuster 4/23/97 DATE
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
Joseph M. Bodman 4-25-97 DATE
 COUNTY HEALTH OFFICER

3/24/97 DATE
 PROFESSIONAL ENGINEER
 TIMOTHY F. WHITTIE
 PROFESSIONAL ENGR. NO. 19155

OWNER/DEVELOPER
EXXON CORPORATION
 6301 IVY LANE SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301)-513-7511
 RAS NO.: 2-2724

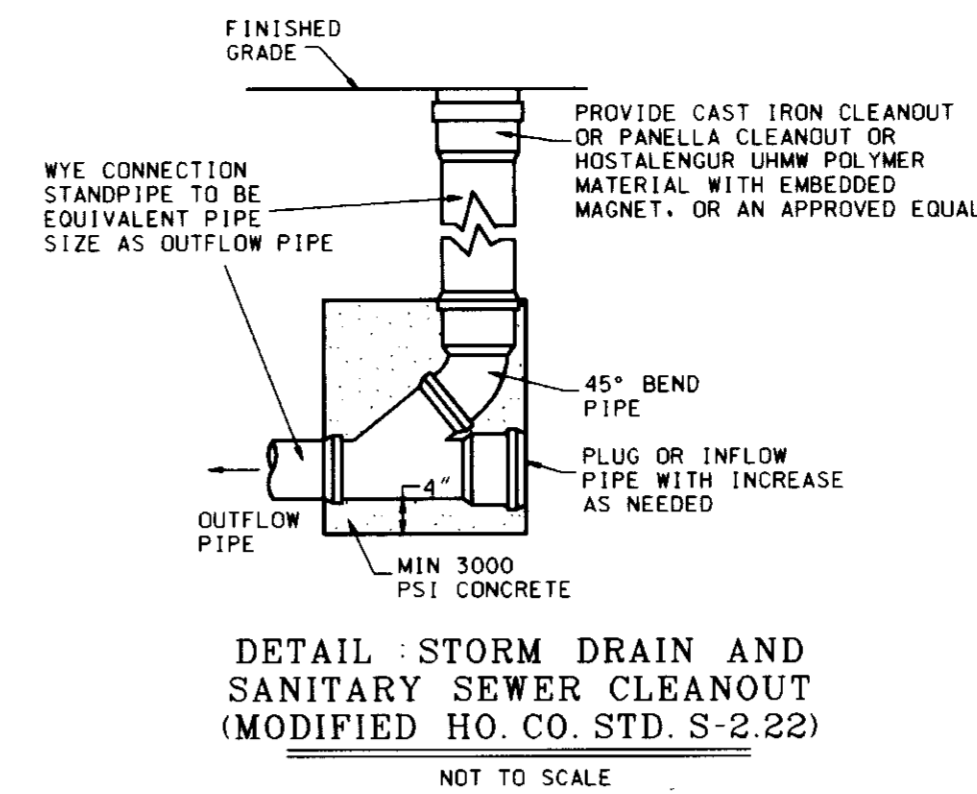
FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090

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

FMA FILE: M:\PROJECTS\93385\ENGR\PEPROF6.DGN
 AREA TAX MAP 24 PARCEL 444
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615
 TITLE **STORM DRAIN PROFILES AND DRAINAGE AREA MAP**
 FOR AN EXXON STATION AT
4235 MONTGOMERY ROAD
ELLICOTT CITY, MARYLAND 21043
 DESIGN BY: YND SCALE: AS SHOWN PROJECT NO.: 23385.00 (CAD)
 DRAWN BY: YND DATE: 12-02-96 SHEET NO.: 26124.00 (ACCT)
 CHECKED BY: TFW APPROVED: 6 OF 11

LOT 2
 REX'S ACRES PLAT CMP 9174
 WILLIAM REX NAZLEROD AND
 TINA CHARLENE NAZLEROD
 2137/323
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

LOT 1
 REX'S ACRES
 PLAT CMP 9174
 DORTHY M NAZLEROD
 AND CHARLENE NAZLEROD
 2433/448
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD



GENERAL NOTES FOR UTILITY CONSTRUCTION

1. INFORMATION CONCERNING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES WAS TAKEN FROM RECORDS PROVIDED BY UTILITY COMPANIES AND HOWARD COUNTY DPW. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. FREDERICK WARD ASSOCIATES, INC. MAKES NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF UTILITIES AND THEIR LOCATIONS, SHOWN OR NOT SHOWN, ON THESE DRAWINGS. SUCH INFORMATION PROVIDED ON THESE PLANS IS FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE CONTRACTOR SHALL VERIFY THE PRESENCE, ABSENCE, AND LOCATIONS OF ALL UTILITIES, TO HIS SATISFACTION, PRIOR TO ANY WORK UNDER THIS CONTRACT.
2. THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION AND EXCAVATION. PHONE 1-800-257-7777.
3. PRIOR TO ANY CONSTRUCTION UNDER THIS CONTRACT, CONTRACTOR SHALL TEST PIT TO VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHERE UTILITY TIE-INS AND CROSSINGS WILL BE ENCOUNTERED. ANY DISCREPANCIES IN HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DRAWINGS, PARTICULARLY AT PROPOSED STORM DRAIN, SANITARY, AND WATER CONNECTIONS, SHALL BE IMMEDIATELY REPORTED TO FREDERICK WARD ASSOCIATES PRIOR TO ANY CONTINUATION OF WORK UNDER THIS CONTRACT. THIS IS FOR THE PURPOSE OF IDENTIFYING ANY CONFLICTS WHICH MAY IMPACT THE PROPOSED DESIGN, AND RESOLUTION OF SAID CONFLICTS PRIOR TO CONTINUATION OF WORK.
4. ANY EXISTING UTILITIES AND AMENITIES WHICH ARE DAMAGED DUE TO TEST PILING AND UTILITY CONSTRUCTION SHALL BE REPAIRED IN KIND AT THE SOLE EXPENSE OF THE CONTRACTOR.
5. ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
6. ALL STORM DRAIN, WATER, SEWER, AND PRODUCT PIPING UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION, AND EXCON SPECIFICATIONS.
7. ANY PROPOSED GAS AND ELECTRIC SERVICE TO BE COORDINATED IN THE FIELD BY THE EXCON FIELD ENGINEER WITH BGE FOR LOCATION AND SIZE OF SERVICE.

GENERAL NOTES FOR WATER AND SEWER CONSTRUCTION

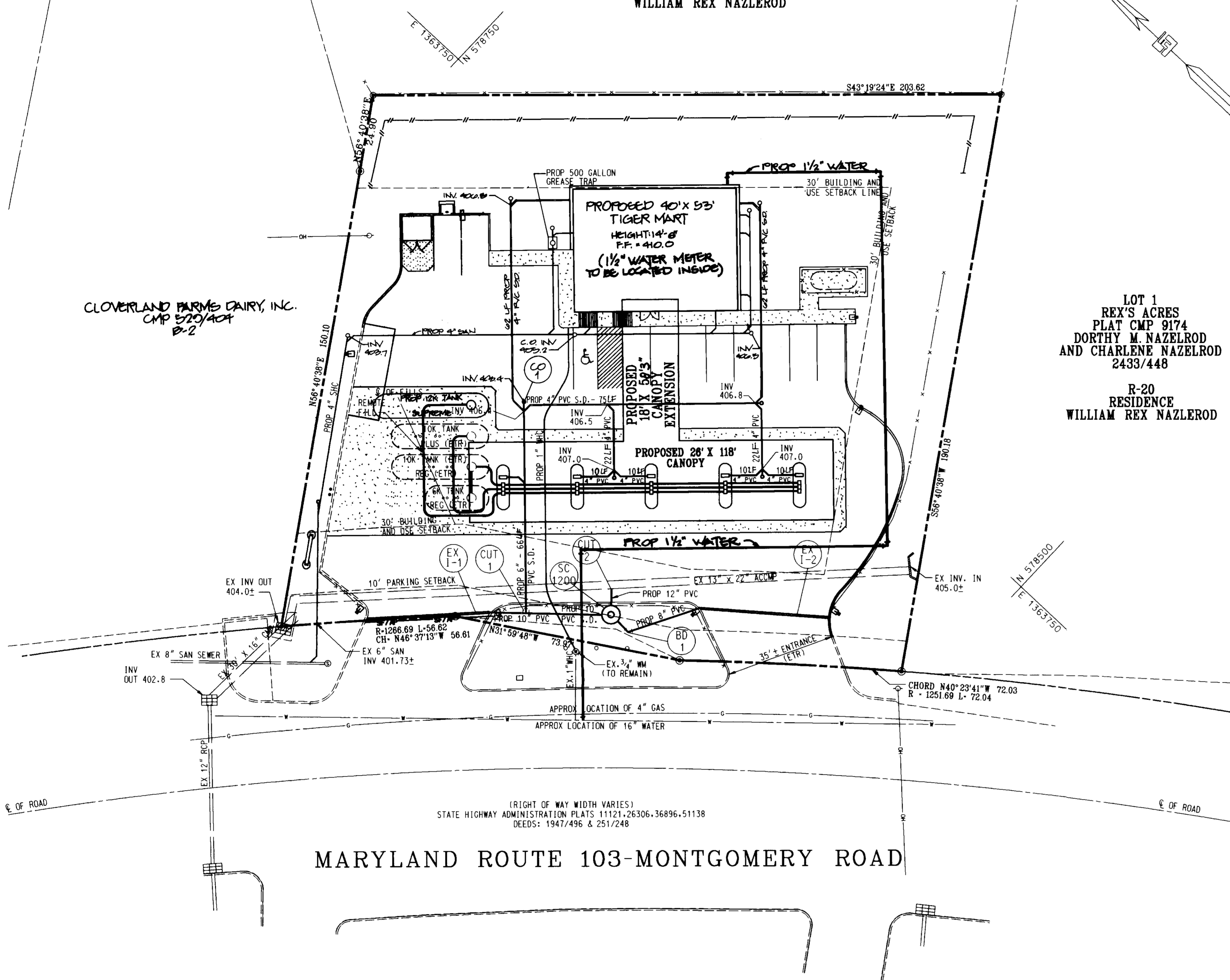
1. WATER METER LID AND SANITARY CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE IDENTIFIED AS SANITARY CLEANOUTS, THREADED, AND CONTAIN COUNTERSUNK PLUGS.
2. UTILITIES SHALL MAINTAIN A MINIMUM 12-INCH CLEARANCE WHEN CROSSING EXISTING AND PROPOSED UTILITIES ON AND OFF SITE.
3. WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
4. WATER SERVICE SHALL BE TYPE K COPPER TUBING. SANITARY SEWER PIPE SHALL BE SDR 26.
5. WATER AND SEWER SERVICES TO BE INSTALLED TO 12" INSIDE FACE OF BUILDING, WHEREIN CONNECTION TO BUILDING UTILITIES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR.

GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

1. ALL MANHOLE LIDS AND CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE THREADED AND CONTAIN COUNTERSUNK PLUGS.
2. STORM DRAIN PIPE TO BE PVC SDR 40.

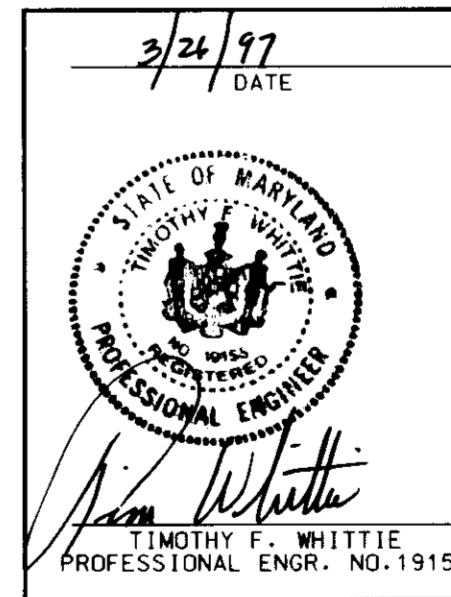
STORM DRAIN STRUCTURE SCHEDULE

SPM	DESCRIPTION	INV. IN	INV. OUT	TOP ELEVATION
SC1200	STORMCEPTOR 1200	405.5	405.4	408.7



REVISIONS
 DATE: 11/9/97
 Changed Ex 1" to 1 1/2" Water Line

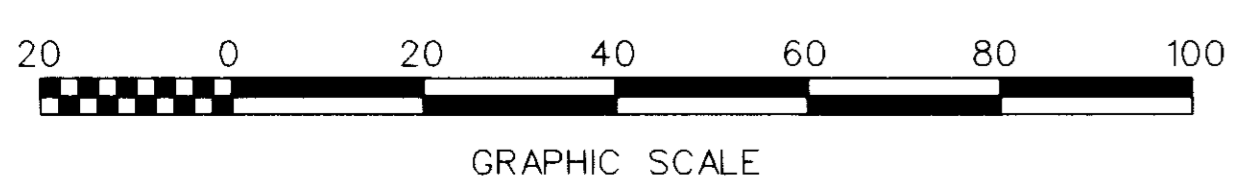
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION 4/10/97 DATE
 DIVISION OF LAND DEVELOPMENT 4/29/97 DATE
 DIRECTOR 4/29/97 DATE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER MR 4-25-97 DATE



OWNER/DEVELOPER
EXCON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301) 513-7511
 RAS NO.: 2-2724

FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090
 FWA FILE: M:/PROJECTS/93385/ENGR/PEUTILS.DGN
 AREA TAX MAP 24 PARCEL 444
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615
 TITLE SITE UTILITY AND PIPING PLAN
 FOR AN EXCON STATION AT
 4235 MONTGOMERY ROAD
 ELLICOTT CITY, MARYLAND 21043
 DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 3385-00 (CAD) 36124.00 (ACCT)
 DRAWN BY: CP/ALF DATE: 12-02-96 DRAWING NUMBER
 CHECKED BY: TFW APPROVED: 05 OF 11

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



MARYLAND ROUTE 103-MONTGOMERY ROAD

(RIGHT OF WAY WIDTH VARIES)
 STATE HIGHWAY ADMINISTRATION PLATS 11121, 26306, 36896, 51138
 DEEDS: 1947/496 & 251/248

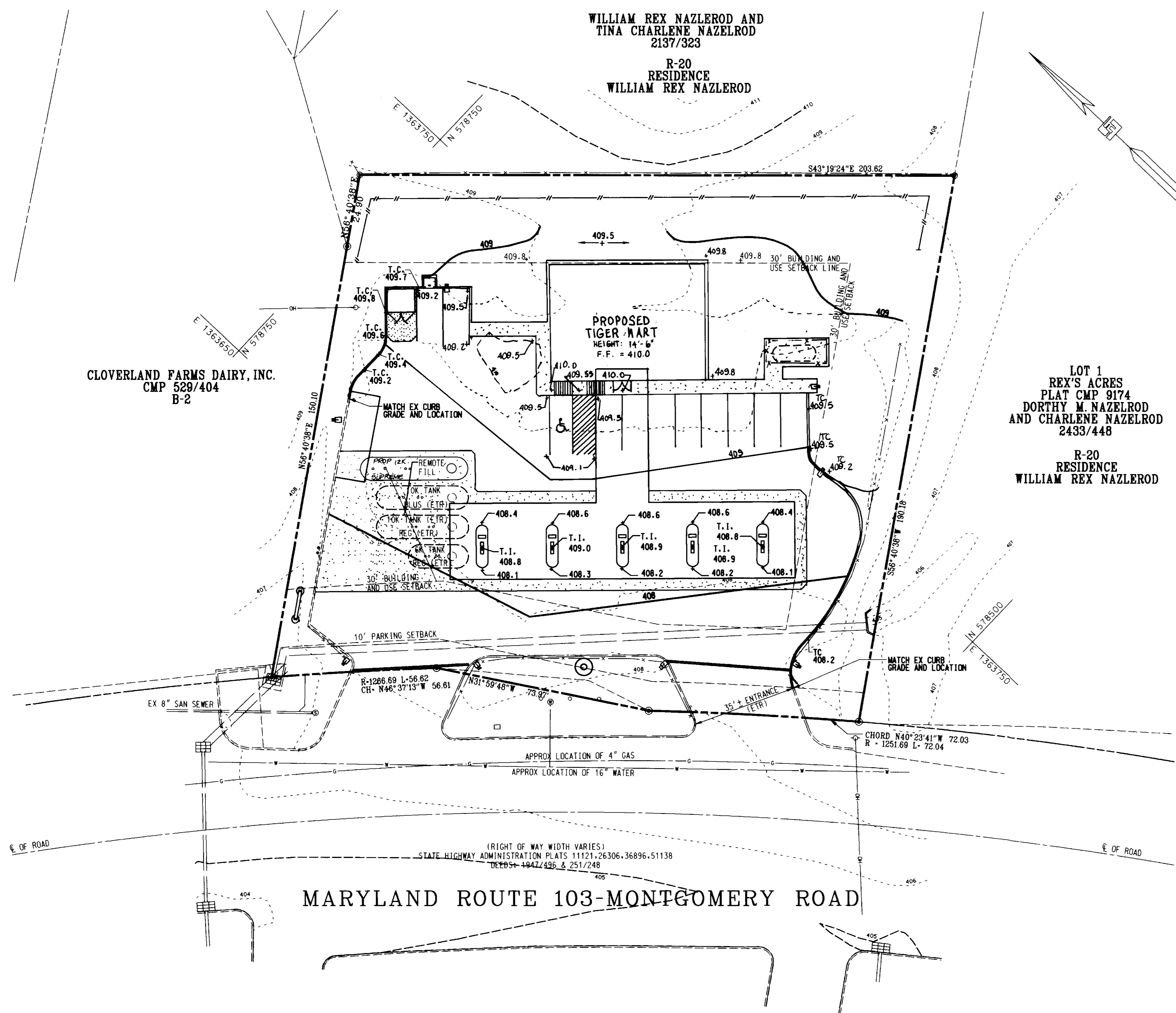
LOT 2
 REX'S ACRES PLAT CMP 9174
 WILLIAM REX NAZLEROD AND
 TINA CHARLENE NAZLEROD
 2137/323
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

LOT 1
 REX'S ACRES
 PLAT CMP 9174
 DORTHY M. NAZLEROD
 AND CHARLENE NAZLEROD
 2433/448
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

CLOVERLAND FARMS DAIRY, INC.
 CMP 529/404
 B-2

LEGEND

- - - - - EXISTING CONTOUR
- — — — — PROPOSED CONTOUR
- + 232.95 PROPOSED SPOT ELEVATION
- + EX 232.95 EXISTING SPOT ELEVATION
- PROPOSED FLOW ARROWS
- T.I. 229.8 TOP OF ISLAND ELEVATION



REVISIONS
 DATE: 11/5/97
 changed ex 1" to 1/2" water line

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chris Hamilton 4/10/97
 CHIEF-DEVELOPMENT ENGINEERING DIVISION # DATE
Chris Hamilton 4/29/97
 DIVISION OF LAND DEVELOPMENT # DATE
James S. Smith 4/29/97
 DIRECTOR # DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd 4-25-97
 COUNTY HEALTH OFFICER #R #R DATE

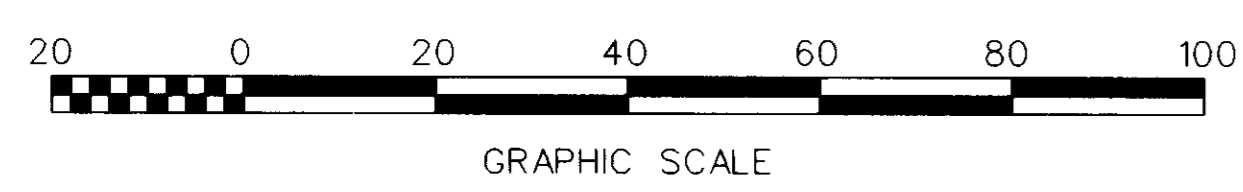
3/26/97
 DATE
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 19155

OWNER/DEVELOPER
EXXON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301)-513-7511
 RAS NO.: 2-2724

PLANNING BOARD APPROVAL
FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)79-2090

FWA FILE: M:/PROJECTS/93385/ENGR/PEGRAD4.DGN
 AREA
 TAX MAP 24 PARCEL 444
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615
 TITLE
SITE GRADING PLAN
 FOR AN EXXON STATION AT
4235 MONTGOMERY ROAD
ELLCOTT CITY, MARYLAND 21043
 DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93385-00 (LOAD)
 DRAWN BY: CP/LF DATE: 12-02-96 DRAWING NUMBER: 96124-00 (ACT1)
 CHECKED BY: TFW APPROVED: 04 OF 11

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

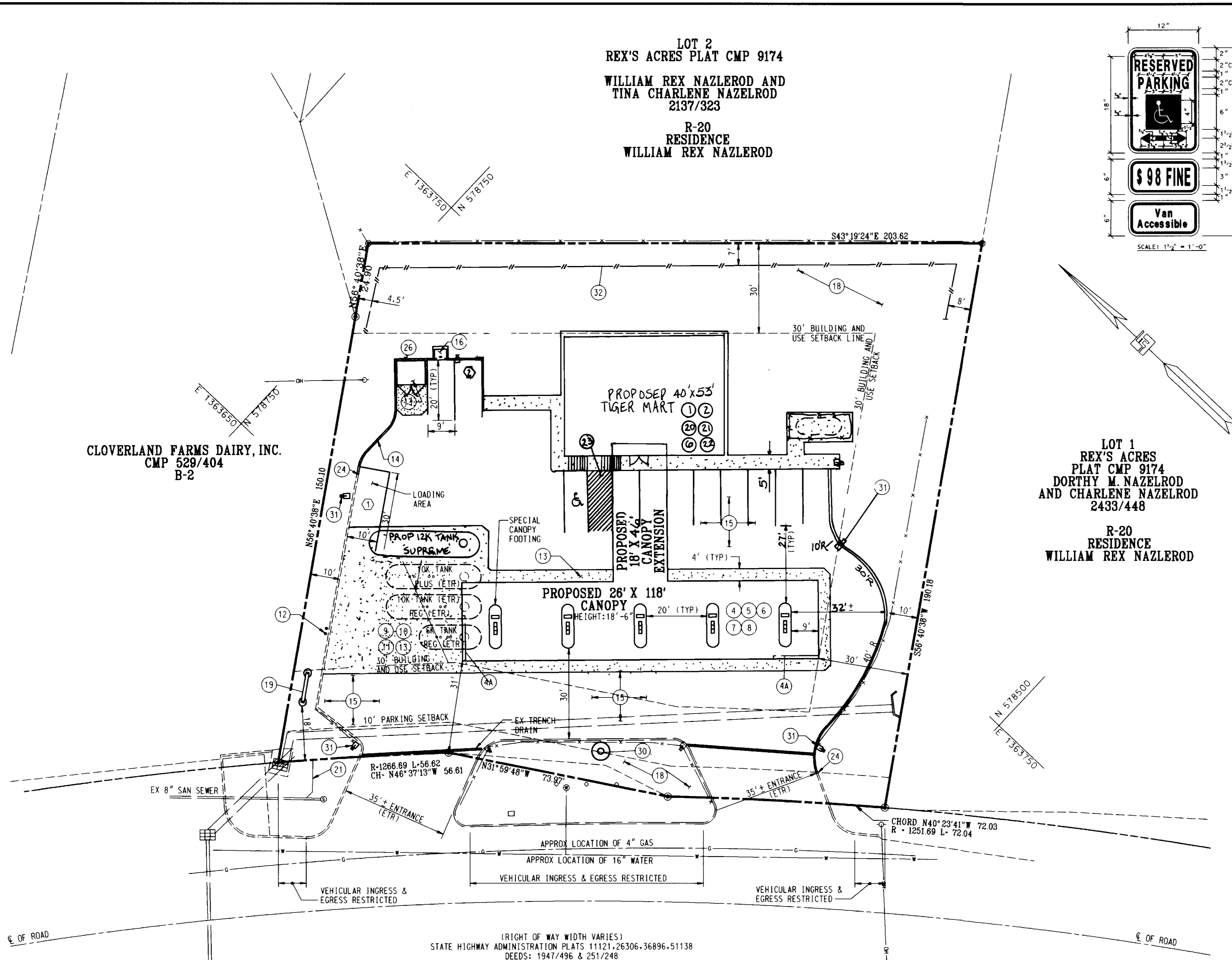


F:\M:\PROJECTS\93385\ENGR\PEGRAD4.DGN 9/19/96

LOT 2
 REX'S ACRES PLAT CMP 9174
 WILLIAM REX NAZLEROD AND
 TINA CHARLENE NAZLEROD
 2137/323
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

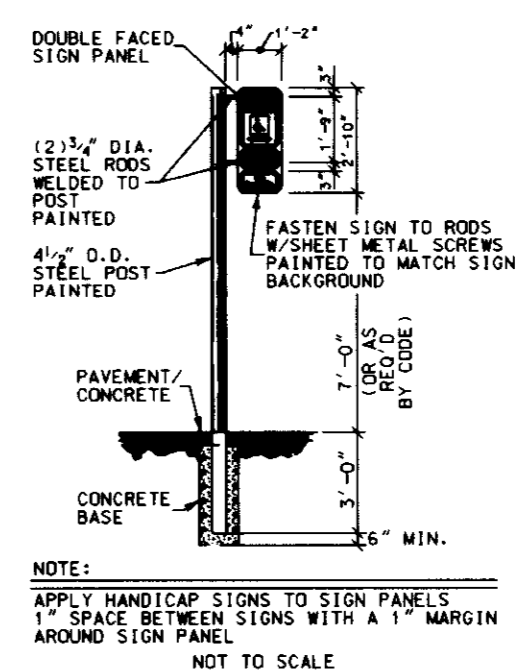
LOT 1
 REX'S ACRES
 PLAT CMP 9174
 DORTHY M. NAZLEROD
 AND CHARLENE NAZLEROD
 2433/448
 R-20
 RESIDENCE
 WILLIAM REX NAZLEROD

CLOVERLAND FARMS DAIRY, INC.
 CMP 529/404
 B-2



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 1'-0" ABOVE FINISHED GRADE.
 3.) MOUNTED ON WALL OR STRUCTURE 6'-0" ABOVE GRADE.



HANDICAP SIGN DETAILS
 NOT TO SCALE

GENERAL NOTES

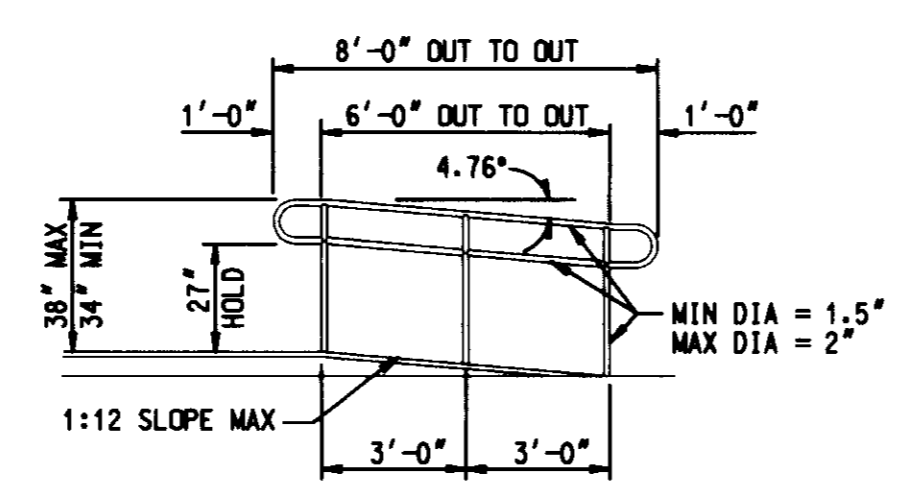
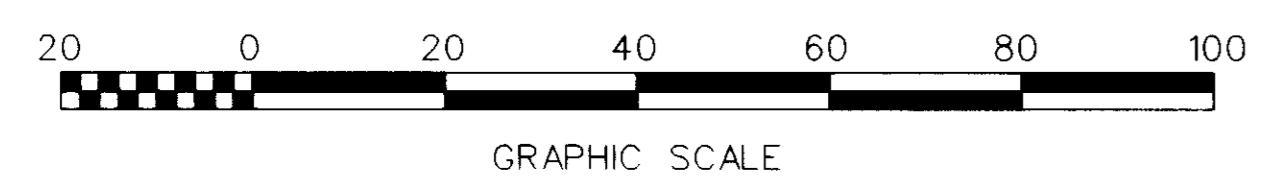
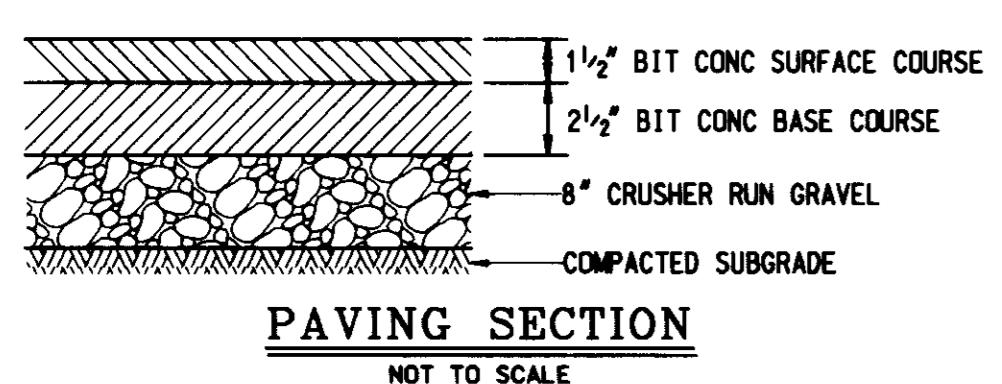
- B.S. - BUILDING SUPPLIER
- G.C. - GENERAL CONTRACTOR
- E. - EXCON
- O. - OTHER (C.S. = CANOPY SUPPLIER, F.S. = FASCIA SUPPLIER)
- ★ - BUILDING ORIENTATION POINT
- - - - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- - - - - PROPOSED SPOT ELEVATION
- () - IMPROVEMENT ITEM
- () - PARKING SPACE QUANTITY
- () - CONCRETE (ON PLAN)
- () - EXISTING TO REMAIN

1. ALL UTILITY CONNECTIONS ARE TO BE AS PER LOCAL CODE BY G.C.
2. G.C. TO PROVIDE CONDUIT & WIRING TO ALL EXCON 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.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND CONSTRUCTION AS SHOWN ON PLANS UNLESS OTHERWISE NOTED.

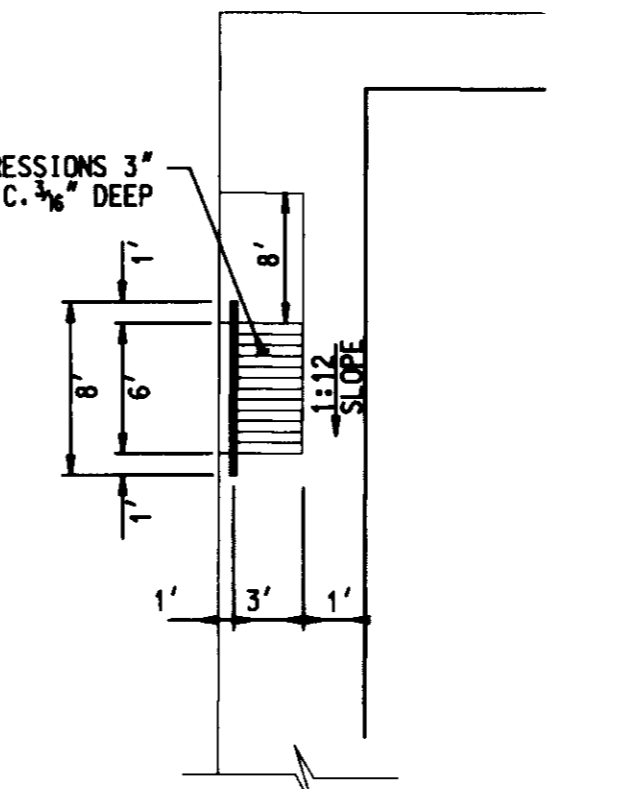
ITEM NUMBER	FURNISHED BY	INSTALLED BY	DESCRIPTION	QUANTITY	REMARKS
1	B.S.	B.S.	BUILDING TYPE (2100 SF) TIGER MART W/3 PHASE 120/208 ELECTRIC	ARCH. DWGS.	
2	GC	GC	BUILDING DOWNSPOUT DRAINS	UNDERGROUND [] ABOVE GROUND	SHT 5 OF 11
3	E	GC	BUILDING SIGN		SHT 10 OF 11
4	GC	GC	CANOPY 26' X 118' WITH 18' X 4" CONNECTION		SPATIAL
4A	E	PS	CANOPY SIGNS		
CANOPY / ISLANDS					
5	E	GC	DISPENSING EQUIPMENT - (5) MFD'S W/ CRIND AND VAPOR VAC		7006G
(1) PROP. GASOLINE, (4) RELOCATED GASOLINE					
6	E	GC	G-SITE SYSTEM (2) REQUIRED		
7	GC	GC	CANOPY DOWNSPOUT DRAINS (UNDERGROUND)		SHT 5 OF 11
8	E	GC	(5) BLANK NO COLUMN SPREADERS		
YARD AREA / TANKS					
9	E	GC	TANKS FOR MOTOR FUEL		7006G, 1-5
(1) 10K SUPRME (PROP) STP W/ LEAK DETECTORS					
(1) 10K PLUS (ETR) 1/2HP (3) (ETR) (1) PROP 7033 - 1					
(1) 10K REGULAR (ETR)					
10	E	GC	ENVIROFLEX PRODUCT PIPING SYSTEM		
11	GC	GC	VAPOR RECOVERY SYSTEM (STAGE I & STAGE II)		
12	GC	GC	VENT RISER PIPE		
YARD AREA - OTHERS					
13	GC	GC	6" CONCRETE W/ #3 REBAR AT 18" O.C. EACH WAY		1090, 1-8
14	GC	GC	6" REINFORCED CONCRETE CURB W/16" GUTTER		
15	GC	GC	ASPHALT PAVING PER HOWARD COUNTY STANDARD P-2		SEE DTL THIS SHT
16	E	GC	AR/WATER UNIT W/ INFORMATION SIGN AND LIGHT		1090, 1-8
17	GC	GC	REINFORCED CONC MAT WITH CONDUIT FOR PUBLIC TELEPHONES AND LIGHT		
18	GC	GC	LANDSCAPING AREA		SHT 10 OF 11
19	E	GC	MAJOR ID. SIGN (50 SF GROUND MOUNTED)		SHT 11 OF 11
7.97 SQ FT EXXON LOGO					
9.22 SQ FT ANCILLARY					
26.99 SQ FT PRICE SIGN					
20	GC	GC	BUILDING ELECTRICAL & TELEPHONE SERVICE ROUTED UNDERGROUND PER EXXON'S FIELD ENGINEER & LOCAL COUNTY CODES		
21	GC	GC	EX 4" SANITARY SEWER SERVICE - TIE INTO EXISTING SANITARY SEWER PER EXXON'S FIELD ENGINEER & LOCAL COUNTY CODES		SHT 5 OF 11
22	GC	GC	TIGER MART 1" WATER SERVICE - TIE INTO EXISTING WATER SERVICE PER EXXON'S FIELD ENGINEER & LOCAL COUNTY CODES		
23	GC	GC	HANDICAP RAMP PER LOCAL, FED. & ADA CODES		SEE DTL THIS SHT
24	GC	GC	MATCH EXISTING CURB, GUTTER, GRADE & LOCATION		
25	GC	GC	HANDICAP PARKING SPACE PER LOCAL, FEDERAL AND ADA CODES		
26	GC	GC	TRASH ENCLOSURE		1090, 1-8
27	GC	GC	RELOCATE EXISTING PROPANE TANK		
28	GC	GC	4" HIGH CHAIN LINK FENCE		
29	GC	GC	HANDICAPPED PARKING ONLY SIGN		
PENALTY SIGN - MIN BOTTOM EDGE 7'-0" PER ADA & LOCAL CODE					
30	GC	GC	STORMCEPTOR (PRIVATE WATER QUALITY STRUCTURE)		SHT 7 OF 11
31	E	GC	YARD LIGHTS (4), FIXTURES, AND POLES		1090, 1-8
32	GC	GC	SOLID WOOD FENCE		SHT 10 OF 11

REVISIONS
 DATE: 11/5/97 - NONE

MARYLAND ROUTE 103-MONTGOMERY ROAD



HANDRAIL AND RAMP ELEVATION
 NOT TO SCALE



HANDICAP RAMP DETAIL
 NOT TO SCALE

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John D. ... 4/10/97
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
Candy Hamilton 4/29/97
 DIVISION OF LAND DEVELOPMENT
John St. ... 4/28/97
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
James M. ... 4-25-97
 COUNTY HEALTH OFFICER MR

OWNER/DEVELOPER
EXXON CORPORATION
 6301 IVY LANE
 SUITE 700
 GREENBELT, MARYLAND 20770
 ATTN: MR. ROBERT CASERTA
 PHONE: (301)-513-7511

PLANNING BOARD APPROVAL
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 19155

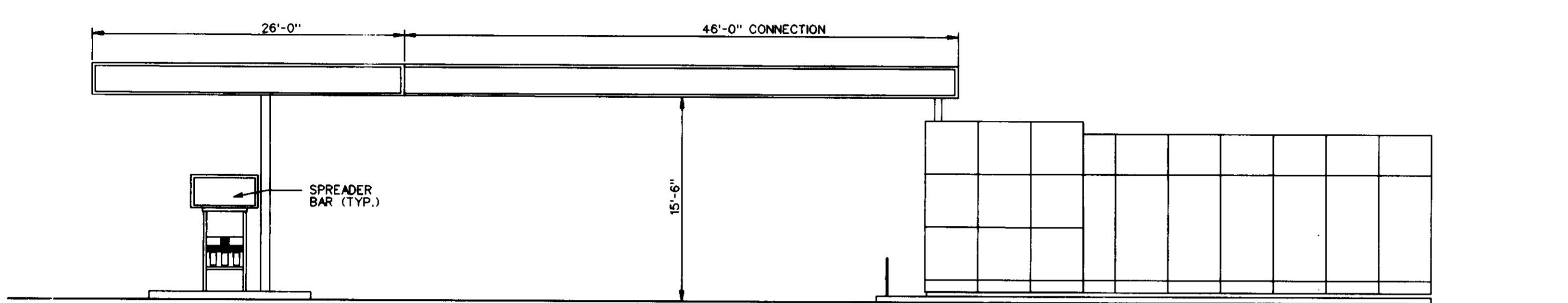
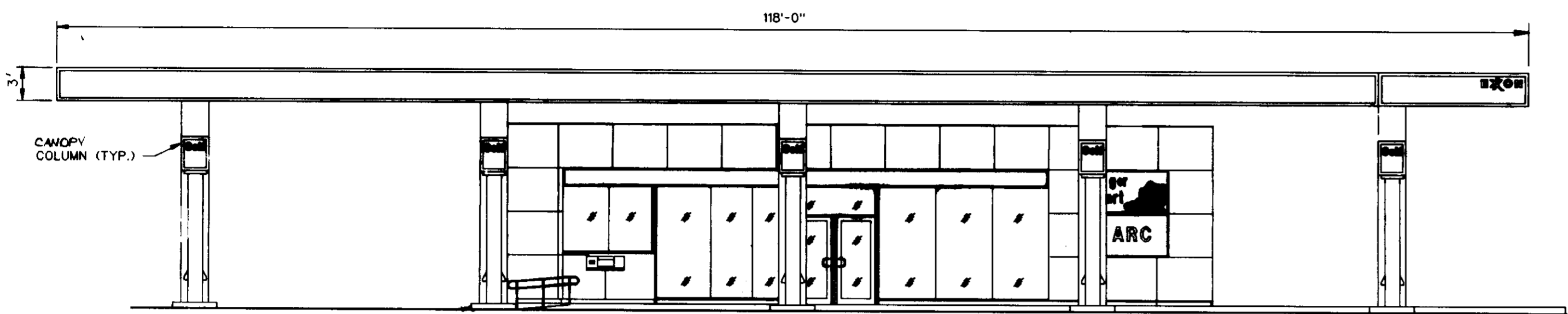
FREDERICK WARD ASSOCIATES INC.
 ENGINEERS ARCHITECTS SURVEYORS
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090

FMA FILE: M:\PROJECTS\93385\ENGR\PESTIES.DGN

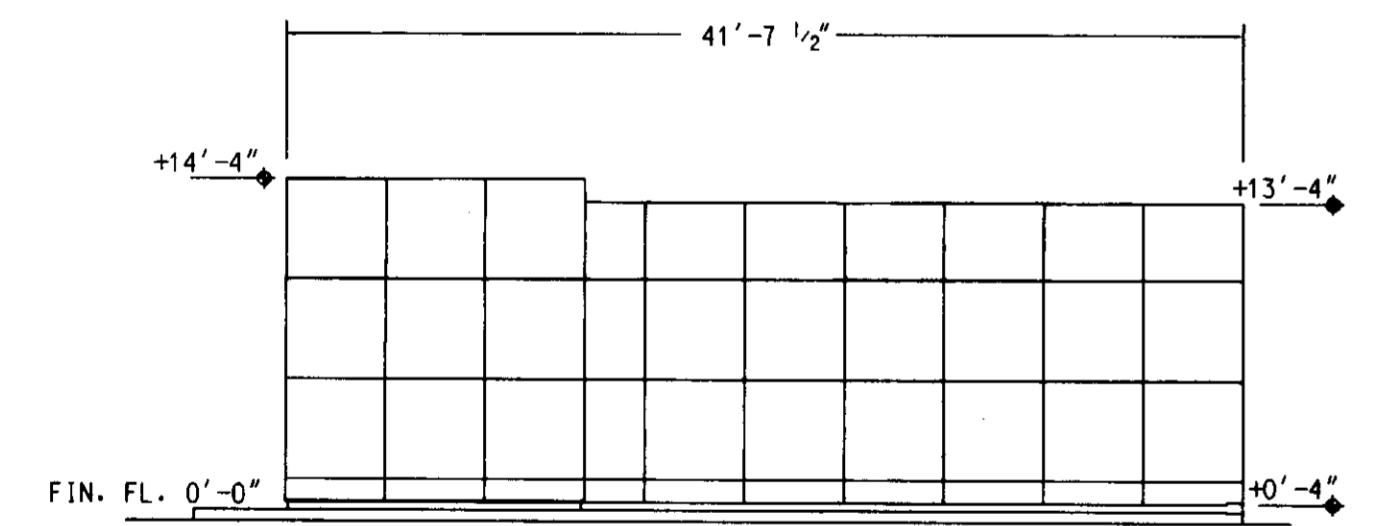
TAX MAP 24 PARCEL 444
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 GENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615

TITLE
SITE LAYOUT PLAN
 FOR AN EXXON STATION AT
4235 MONTGOMERY ROAD
ELLCOTT CITY, MARYLAND 21043

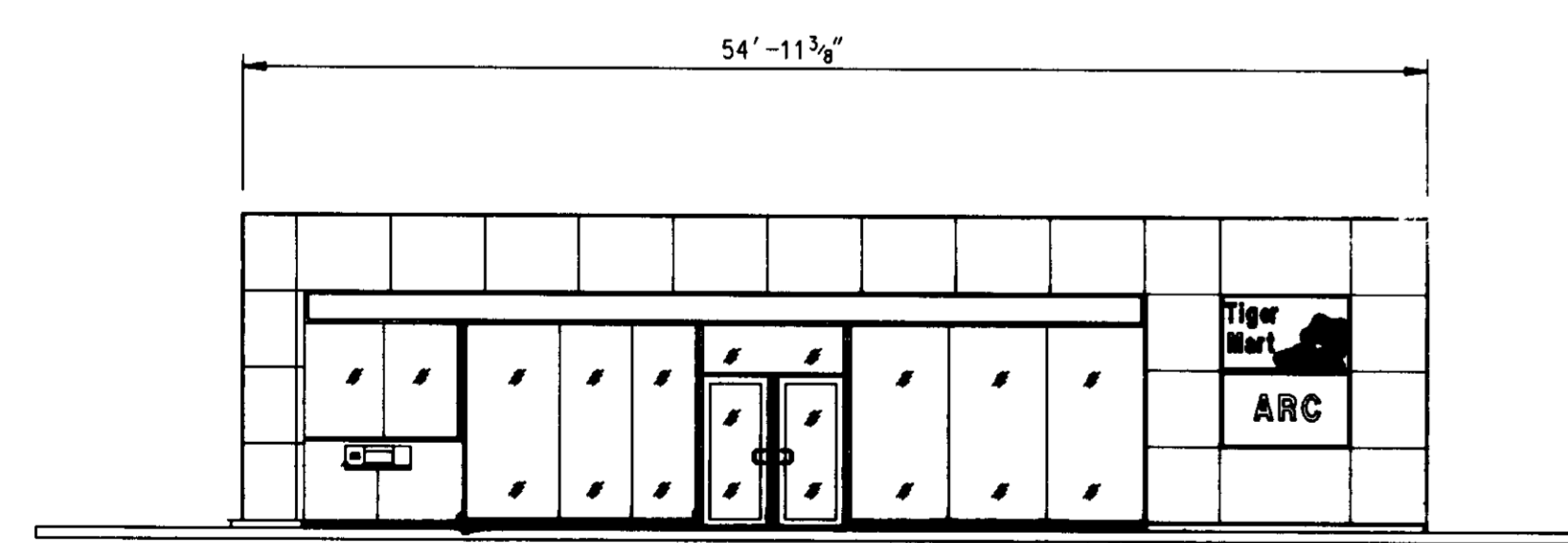
DESIGN BY: RWM SCALE: 1" = 20' PROJECT NO.: 93385-00 (CADD)
 DRAWN BY: CP/LF DATE: 12/02/96 SHEET NO.: 9614-00 (JCT1)
 CHECKED BY: TFM APPROVED: 03 OF 11



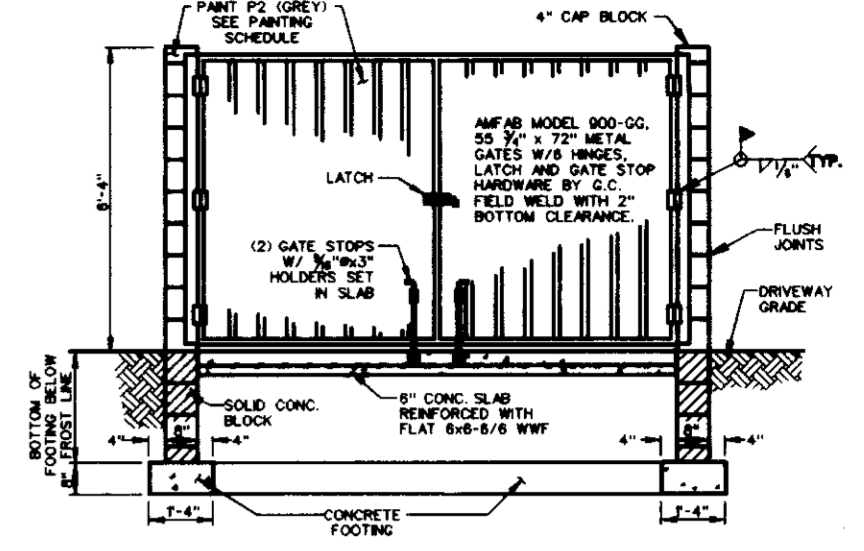
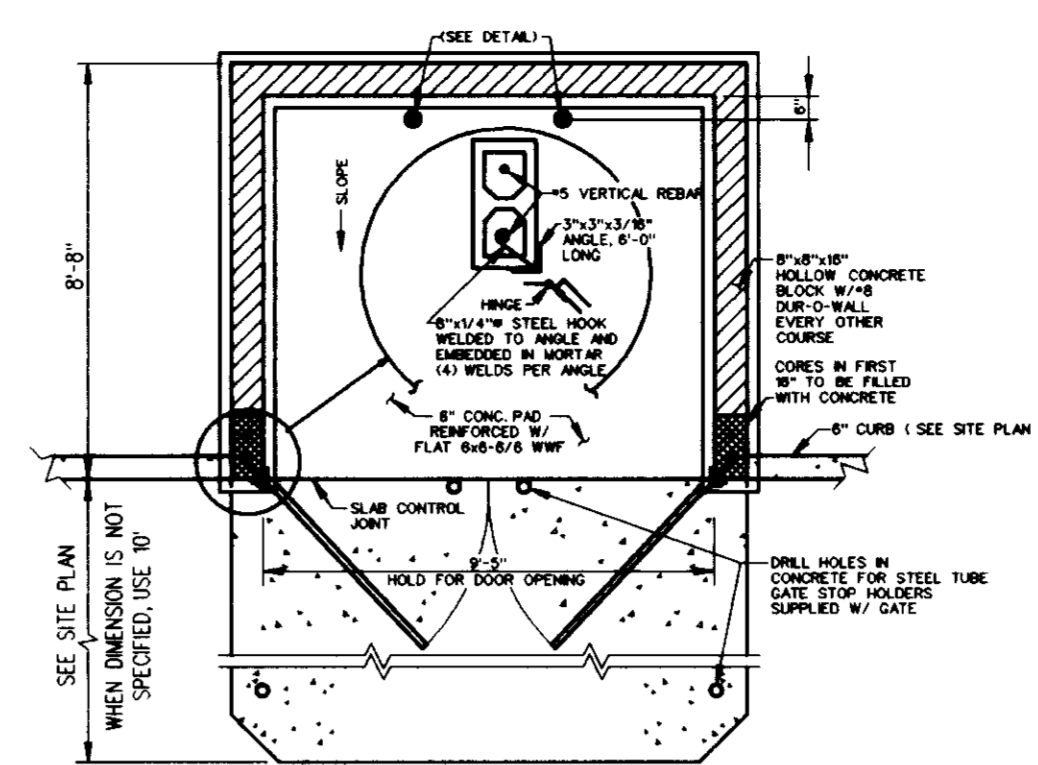
CANOPY ELEVATIONS
SCALE: NTS



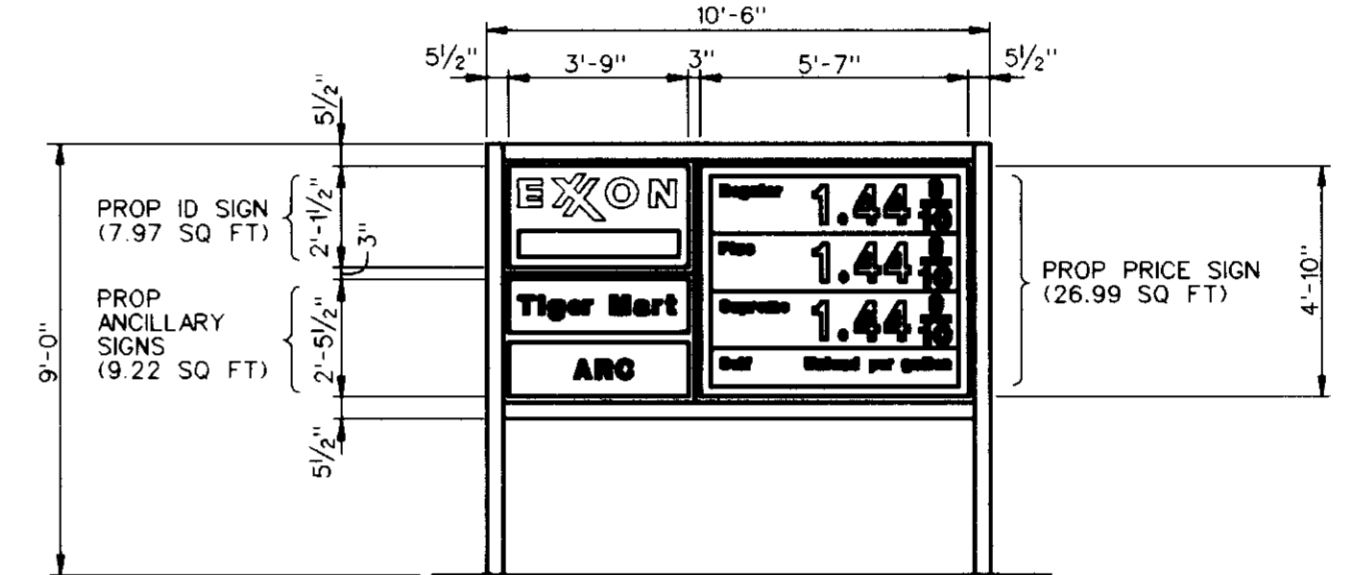
RIGHT ELEVATION
SCALE: NTS



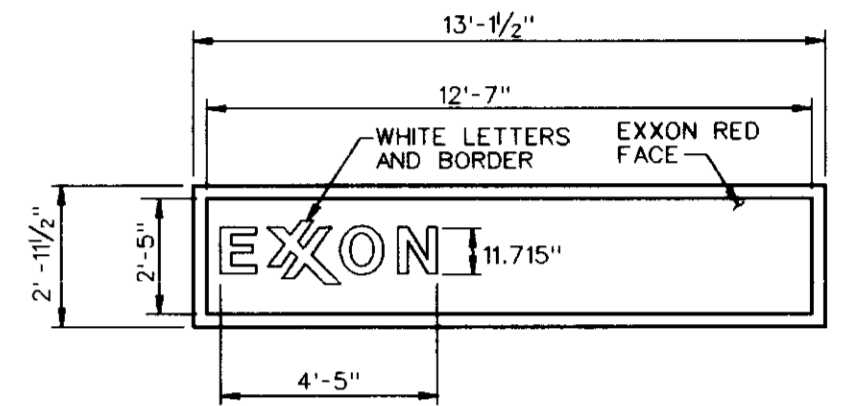
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



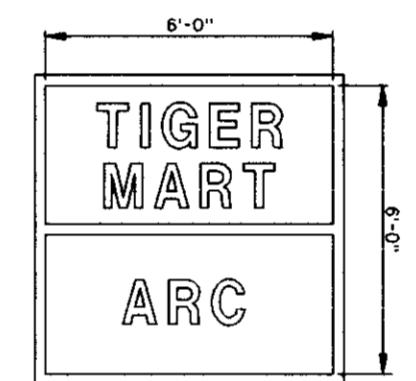
TRASH ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0"



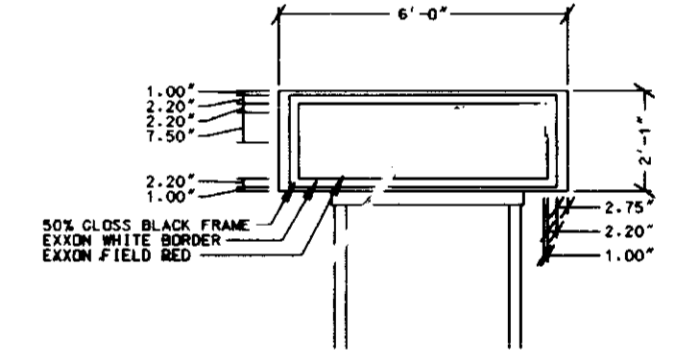
PROPOSED GROUND MOUNTED MAJOR I.D. SIGN - (50 SQ.FT.)
INTERNALLY ILLUMINATED, DOUBLE FACE
SCALE: 1/4" = 1'-0"



PROPOSED FASCIA SIGN - 30.41 SQ.FT.
INTERNALLY ILLUMINATED, SINGLE FACE
SCALE: 1/4" = 1'-0"



PROPOSED FRONT BUILDING SIGN - 36.00 SQ.FT.
INTERNALLY ILLUMINATED, SINGLE FACE
SCALE: 1/4" = 1'-0"

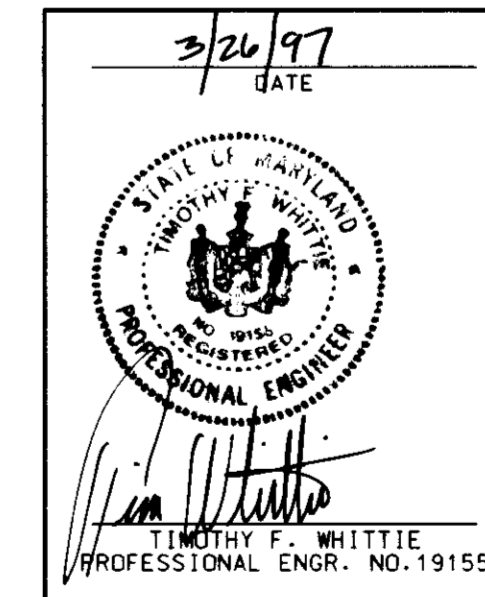


PROPOSED TOP HAT SIGN (BLANK)
SCALE: 1/4" = 1'-0"

SIGNAGE CALCULATIONS

A. ALLOWABLE SIGNAGE:	
1. TOTAL ALLOWABLE SIGNAGE AREA: 2 SQ.FT./LF. X 80'	- 160.00 SQ.FT.
2. FREESTANDING SIGN AREA: 1 SQ.FT./LF. OF SIGN SETBACK 1 SQ.FT X 18.0 LF	- 18.00 SQ.FT.
3. FREESTANDING SIGN HEIGHT: 1 FT/2 FT OF SIGN SETBACK 18.0/2 FT	- 9.00 SQ.FT.
4. PRICE SIGNS:	- 32.00 SQ.FT.
B. PROPOSED SIGNAGE:	
1. BUILDING SIGNAGE (SINGLE SIDE ONLY):	
(a) CONVENIENCE STORE "TIGER MART" AND "ARC"	- 36.00 SQ.FT.
(b) CANOPY (2) "EXXON" @ 30.41 SQ.FT. EACH	- 60.82 SQ.FT.
SUBTOTAL BUILDING SIGNAGE AREA	- 96.82 SQ.FT.
2. FREESTANDING SIGNAGE AREA:	
"EXXON" ID SIGN	- 7.97 SQ.FT.
"TIGER MART" AND "ARC"	- 9.22 SQ.FT.
SUBTOTAL FREESTANDING SIGNAGE AREA	- 17.19 SQ.FT.
3. FREESTANDING SIGNAGE HEIGHT	- 9.00 FT.
4. PRICE SIGN	- 26.99 SQ.FT.
TOTAL PROPOSED ON-SITE SIGNAGE	- 114.01 SQ.FT.

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



PLANNING BOARD APPROVAL

DATE: 9/12/97 REVISION DESCRIPTION:
REVISIONS MADE TO BUILDING PER
EXXONS COMMENTS.
DESIGNER: KMB
ENGINEER: JBL

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF DEVELOPMENT ENGINEERING DIVISION 4/10/97
Cindy Hamilton 4/29/97
DIVISION OF LAND DEVELOPMENT
DIRECTOR 4/29/97

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
Joyce M. Berkman 9-25-97
COUNTY HEALTH OFFICER HR DATE

OWNER/DEVELOPER: **EXXON CORPORATION**
6301 IVY LANE
SUITE 700
GREENBELT, MARYLAND 20770
ATTN: MR. ROBERT CASERTA
PHONE: (301)-513-7511
BAS NO: 2-2724

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090

PWA FILE: M:\PROJECTS\93385\ENGR\PE\SIGN1.DGN
AREA: TAX MAP 24 PARCEL 444
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
CENSUS TRACT 6028 WATER CODE F04 SEWER CODE 5750615
TITLE: **BUILDING AND SIGNAGE PLAN**
FOR AN EXXON STATION AT
4235 MONTGOMERY ROAD
ELLCOTT CITY, MARYLAND 21043
DESIGN BY: RBM SCALE: AS SHOWN PROJECT NO.: 93385.00 (CARD)
DRAWN BY: CP/MSM DATE: 10/21/96 96124.00 (LAST)
CHECKED BY: TFW APPROVED: 11 OF 11