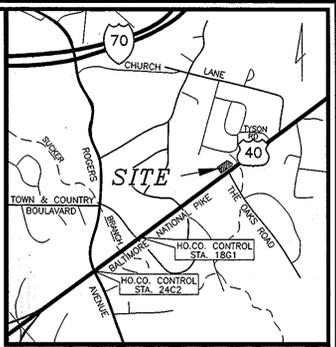


SHEET INDEX	
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING, SEDIMENT CONTROL PLAN AND STORM DRAIN PROFILES
4	LANDSCAPE PLAN
5	DETAIL PLAN
6	STORM DRAIN PROFILES

# CARROLL INDEPENDENT FUEL SITE DEVELOPMENT PLAN HOWARD COUNTY, MARYLAND

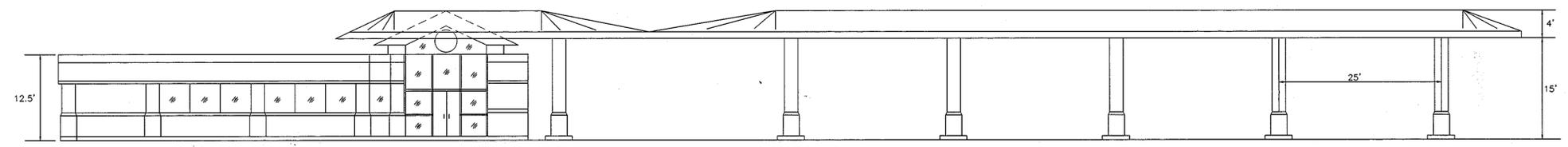
**BENCHMARK**  
TRAVERSE POINT NO. 104  
(GERHOLD, CROSS & ETZEL, LTD.)  
PK NAIL IN ROAD  
N. 591,099  
E. 369,266  
ELEV. 343.28



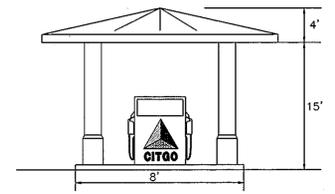
**VICINITY MAP**  
SCALE: 1"=2000'

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:  
 MISS UTILITY: 1-800-257-7777  
 C & P TELEPHONE COMPANY: 410-954-6232  
 HOWARD COUNTY BUREAU OF UTILITIES: 410-313-2366  
 AT&T CABLE LOCATION DIVISION: 1-800-241-3824  
 B.G.&E. CO. UNDERGROUND SERVICES: 410-850-4620  
 B.G.&E. CO. UNDERGROUND DAMAGE CONTROL: 410-561-2895  
 STATE HIGHWAY ADMINISTRATION: 410-531-5533
- SITE ANALYSIS:**  
 AREA OF PARCEL/AREA OF SUBMISSION: 1.247 AC  
 PRESENT ZONING: B-2  
 USE OF STRUCTURES: GAS STATION/CONVENIENCE STORE  
 TOTAL BUILDING AREAS: 3,211 SQ. FT.  
 BUILDING COVERAGE ON SITE: 5.91%  
 PAVED PARKING LOT/AREA ON SITE: 0.631 AC OR 50.6% OF GROSS AREA  
 GREEN AREA ON SITE: 0.709 AC  
 LANDSCAPE AREA REQUIRED: 20%  
 LANDSCAPE AREA PROVIDED: 43%
- PROJECT BACKGROUND:**  
 LOCATION: ELLICOTT CITY, MARYLAND TAX MAP: 18 PARCELS: 60  
 ZONING: B-2  
 SITE AREA: 1.247 AC  
 DPZ REFERENCES: BA 96-41E, BA-96-04S, WP-97-117
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM FIELD SURVEYS (BY OTHERS) AND AVAILABLE RECORD DRAWINGS: APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOILS TEST.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C'.
- THIS SITE IS EXEMPT FROM STORMWATER MANAGEMENT QUALITY CONTROL (PROPOSED IMPERVIOUS SURFACE IS LESS THAN EXISTING).
- WATER QUALITY IS PROVIDED BY A STORMCEPTOR. STORMCEPTOR TO BE PRIVATELY OWNED AND MAINTAINED.
- COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 2402 AND 1861 (GERHOLD, CROSS & ETZEL, LTD.)
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- ALL PAVING ON SITE TO BE HOWARD COUNTY STANDARD. OFFSITE PAVING TO BE SHA PAVING.
- ALL CURB AND GUTTER ON SITE TO BE HOWARD COUNTY STANDARD CONCRETE. OFF SITE CURB AND GUTTER TO BE SHA TYPE A.
- A WATER METER SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION ON THE INCOMING WATER LINE TO THE BUILDING.
- CONTRACTOR RESPONSIBLE TO CONSTRUCT ALL HANDICAP PARKING AND HANDICAP ACCESS ROUTES IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- WHERE DRAINAGE FLOWS AWAY FROM CURB, CONTRACTOR TO REVERSE THE GUTTER PAN.
- EXISTING TOPOGRAPHY IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY GERHOLD, CROSS & ETZEL, LTD. DATED SEPTEMBER 19, 1995.
- THIS PROJECT IS SERVED BY PUBLIC WATER (CONTRACT #BW) AND PUBLIC SEWER (CONTRACT #10-1085)
- THE CONTRACTOR WILL REMOVE EX. CURB & GUTTER AS NOTED ON THE SITE PLAN. THE CONTRACTOR WILL LEAVE A CLEAN EDGE OF EX. PAVING FOR TIE-IN OF PROPOSED PAVING.
- THE CONTRACTOR WILL CONSTRUCT ALL CONC. CURB & GUTTER NOTED ON THE SITE PLAN TO BE FULLY DEPRESSED SO THAT THERE IS NOT A LIP.
- THE PROPOSED LIGHTING SHALL BE SHIELDED AND DIRECTED SO THAT IT DOES NOT ILLUMINATE RESIDENTIAL PROPERTIES, DOES NOT SHINE DIRECTLY ONTO ANY ADJACENT PROPERTIES, AND DOES NOT PRODUCE GLARE WHICH WOULD CAUSE A HAZARD FOR ANY MOTOR VEHICLE OPERATORS IN THE VICINITY OF THE SITE.
- THIS PLAN IS SUBJECT TO BA-96-14, A SPECIAL EXCEPTION FOR A GASOLINE SERVICE STATION IN A B-2 ZONE, GRANTED OCTOBER 2, 1997.
- THIS PLAN IS SUBJECT TO BA-96-04S, A VARIANCE TO ALLOW A 45 SQUARE FOOT COMMERCIAL IDENTIFICATION SIGN, 9 FEET IN HEIGHT TO BE LOCATED 0 FEET FROM THE BALTIMORE NATIONAL PIKE (RTE. 40) RIGHT-OF-WAY, GRANTED OCTOBER 2, 1997.
- THIS PLAN IS SUBJECT TO WP-97-117, TO WAIVE SECTION 16.155(c)(1), TO PERMIT NON-RESIDENTIAL DEVELOPMENT WITHOUT AN APPROVED SITE DEVELOPMENT PLAN TO RELOCATE GAS TANKS ON-SITE.
- THIS PLAN IS EXEMPT FROM FOREST CONSERVATION (LESS THAN 40,000 SQ. FT. OF DISTURBANCE) BASED ON A FINDING OF A DECLARATION OF INDEBT.
- HOURS OF OPERATION WILL BE 8:00 AM TO 11:00 PM. NO DELIVERIES OR TRASH PICKUP ALLOWED BETWEEN 7:00 AM TO 11:00 PM. (BA-96-41E)



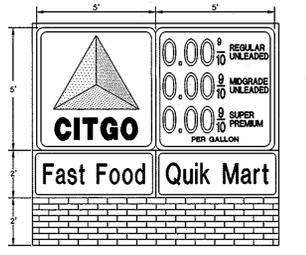
**FRONT ELEVATION**  
NOT TO SCALE



**PUMP ISLAND CANOPY**  
NOT TO SCALE

**PARKING TABULATION**

	REQUIRED	PROPOSED
GAS STATION CONVENIENCE STORE (IN CONJUNCTION W/ GAS STATION): 2 SP./1000 SF @ 3,211 S.F. (INCLUDING 1 HANDICAP SPACE)	3 SPACES	3 SPACES
STACKING SPACES: 1 SP./1 PUMP @ 10 PUMPS	7 SPACES	20 SPACES
TOTAL SPACES=	10 SPACES	23 SPACES
	10 SPACES REQUIRED	20 SPACES PROVIDED
	10 FUELING(F)	10 WAITING(W)



**FREESTANDING SIGN DETAIL**  
NOT TO SCALE

**SIGN AREA SUMMARY**

PRIMARY I.D. SIGN (5'x5'):	25 SQ.FT.
PRICE MODULE (2'x5'):	25 SQ.FT.
INFORMATION PANEL (2'x10'):	20 SQ.FT.
<b>TOTAL SIGNAGE AREA:</b>	<b>70 SQ.FT.</b>
<b>TOTAL SIGNAGE AREA EXCLUDING PRICE MODULE:</b>	<b>45 SQ.FT.</b>

NO.	REVISION	DATE

**OWNER**  
DAVID EBERHART  
8435 HIGHRIDGE ROAD  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 465-1719

**DEVELOPER**  
JOHN PHELPS  
CARROLL INDEPENDENT FUEL COMPANY  
2700 LOCH RAVEN ROAD  
BALTIMORE, MARYLAND 21093  
TELEPHONE: (410) 235-1086

**CARROLL INDEPENDENT FUEL**  
8300 BALTIMORE NATIONAL PIKE  
TITLE SHEET

REFERENCE # BA-96-41E, WP-97-117  
TAX MAP #18 BLOCK 14 PARCEL 60  
2nd ELECTION DISTRCT ZONED: B-2 HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 461-5828  
FAX: (410) 465-3966

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Swann* 3/13/98  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR ~~CONSTRUCTION~~ SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Paul Sl.* 3/17/98  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Joseph St. John* 4/1/98  
DIRECTOR DATE

*Cindy Hamilton* 3/21/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Chad Damman* 3/17/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

*James M. Boyd* 3-23-98  
COUNTY HEALTH OFFICER DATE

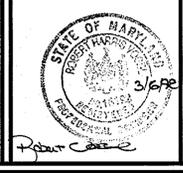
**ADDRESS CHART**

PARCEL NO.	STREET ADDRESS
60	8300 BALTIMORE NATIONAL PIKE

**SUBMISSION NAME** SECTION/AREA PARCEL NUMBER  
N/A N/A 60

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
N/A	19	B-2	18	2ND	6026

**WATER CODE** F 01 **SEWER CODE** 1451500



DESIGN BY: J.C.O.  
DRAWN BY: J.C.O.  
CHECKED BY: R.H.V.  
DATE: NOVEMBER, 1997  
SCALE: AS SHOWN  
W.O. NO.: 96-17

1 SHEET OF 6

ACAD.DRS\FEBRHART\TITLE

E 369000 N 591250

JACOB FRAIDIN & CHRISTINE A. BECKMAN  
LIBER 948 FOLIO 278  
ZONED R-20  
USE: RESIDENTIAL (CURRENTLY VACANT)

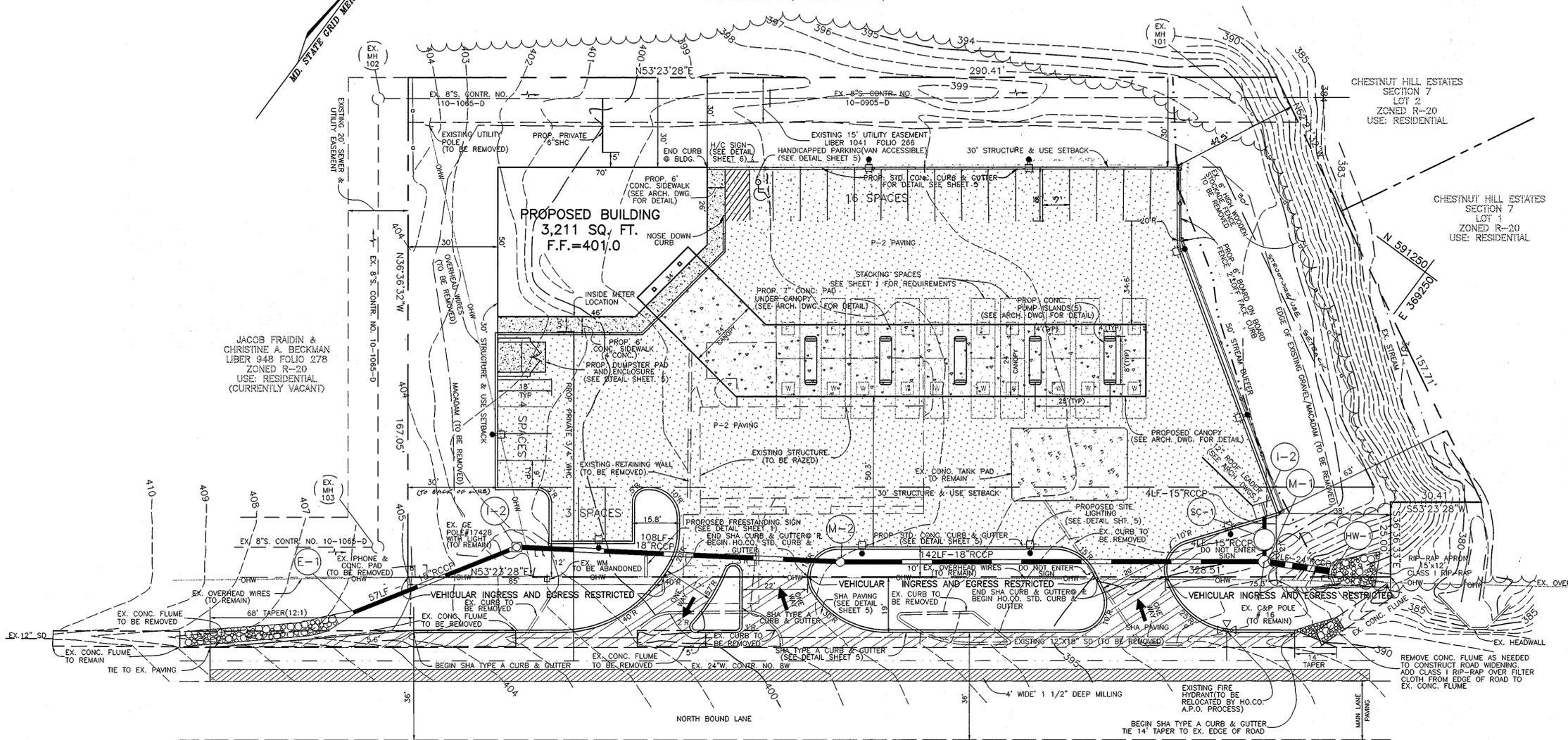
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SECTION 7  
LOT 2  
ZONED R-20  
USE: RESIDENTIAL

CHESTNUT HILL ESTATES  
SECTION 7  
LOT 1  
ZONED R-20  
USE: RESIDENTIAL

JACOB FRAIDIN &  
CHRISTINE A. BECKMAN  
LIBER 948 FOLIO 278  
ZONED R-20  
USE: RESIDENTIAL  
(CURRENTLY VACANT)

**LEGEND**

- EXISTING GROUND --- 472 ---
- EXISTING WATER ---
- EXISTING SEWER ---
- EXISTING STORM DRAIN ---
- EXISTING CURB & GUTTER ---
- EASEMENT ---
- PROPOSED C&G ---
- PROPOSED STORM DRAIN ---
- PROP. P-2 PAVING [Pattern]
- PROP. SHA PAVING [Pattern]
- PROP. CONC. PAVEMENT [Pattern]
- PROP. LUMINAIRE: 18.25"x25"  
CLEAR GLASS 400 WATT SUPER  
METAL HALIDE  
(DOUBLE LIGHT HAS  
2 LUMINAIRES)
- STACKING SPACES  
F- FUELING  
W- WAITING



BALTIMORE NATIONAL PIKE  
U.S. ROUTE 40 (150' R/W)  
STATE ROAD  
INTERMEDIATE ARTERIAL

**OWNER**  
DAVID EBERHART  
8435 HIGHRIDGE ROAD  
ELLCOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 465-1719

**DEVELOPER**  
JOHN PHELPS  
CARROLL INDEPENDENT FUEL COMPANY  
2700 LOCH RAVEN ROAD  
BALTIMORE, MARYLAND 21093  
TELEPHONE: (410) 235-1066

**CARROLL INDEPENDENT FUEL**  
8300 BALTIMORE NATIONAL PIKE

**SITE DEVELOPMENT PLAN**

REFERENCE # BA-96-41E, WP-97-117  
TAX MAP #18 BLOCK 19 PARCEL 60  
2nd ELECTION DISTRCT ZONED: B-2 HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
ELLCOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-5828  
FAX: (410) 465-8966

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Simms* 1/65 3/13/98  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Mark Shly* 3/13/98  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*James H. Smith* 4/1/98  
DIRECTOR DATE

*Chris Hamilton* 3/31/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Mark D. Williams* 3/17/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

*James M. DeLorenzo* 3-23-98  
COUNTY HEALTH OFFICER MR DATE

ADDRESS CHART  
PARCEL NO. STREET ADDRESS  
60 8300 BALTIMORE NATIONAL PIKE

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER			
N/A	N/A	60			
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
N/A	19	B-2	18	2ND	6026
WATER CODE	SEWER CODE				
F 01	1451500				



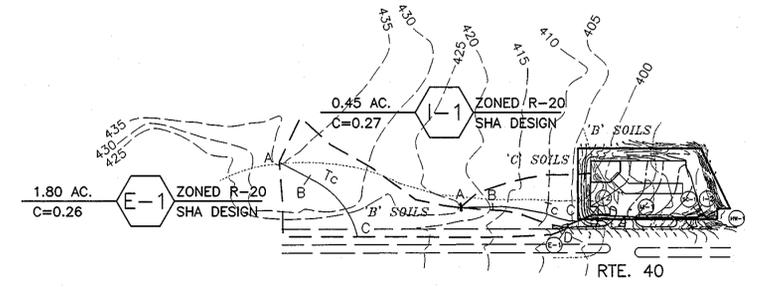
DESIGN BY: J.C.O.  
DRAWN BY: J.C.O.  
CHECKED BY: R.H.V.  
DATE: NOVEMBER, 1997  
SCALE: 1"=20'  
W.O. NO.: 96-17

2 SHEET OF 6

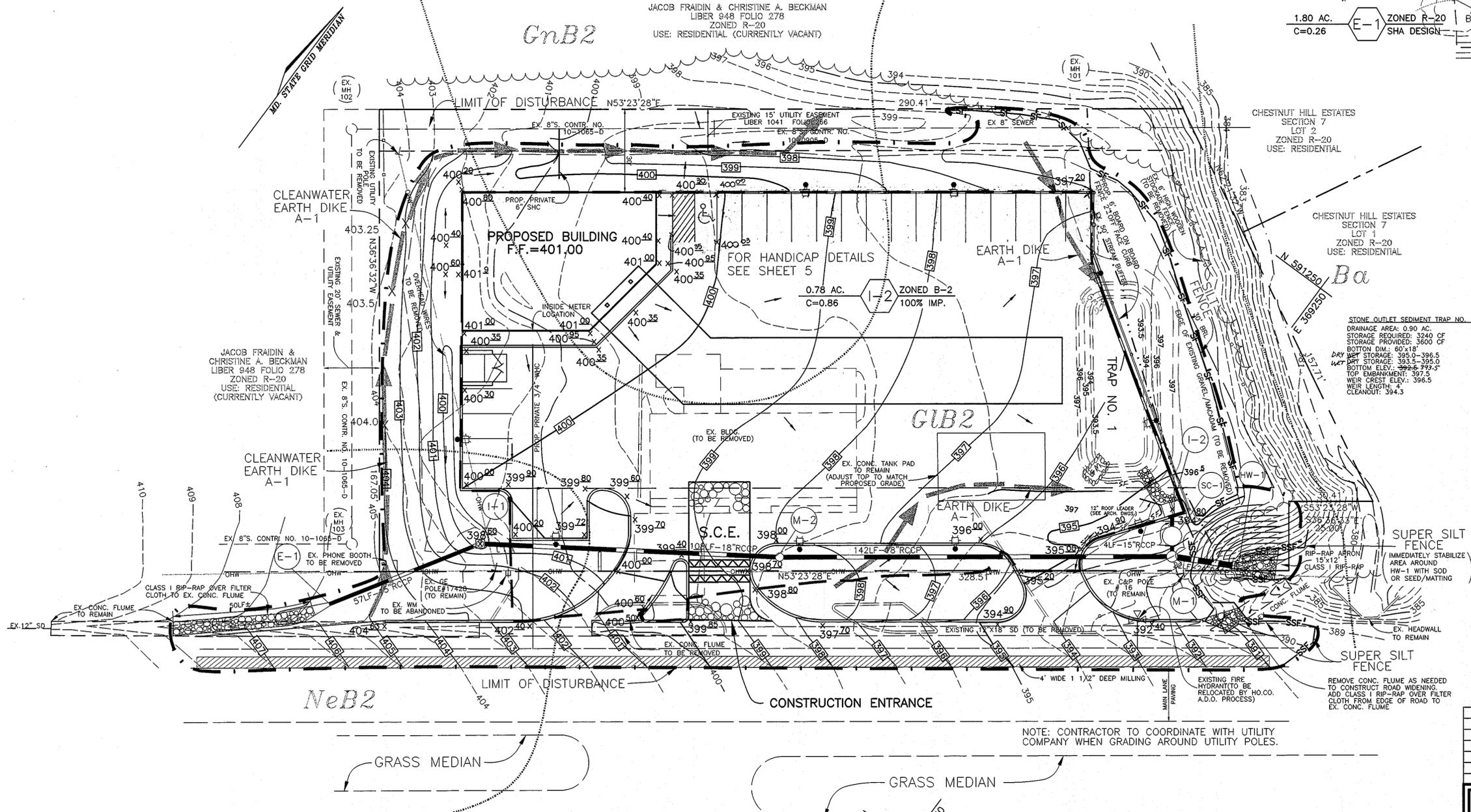
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SOIL LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
GIB2	GLENELG LOAM, 8 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
NeB2	NESHAMINY SILT LOAM, 3 TO 8 PERCENT SLOPES, SEVERELY ERODED	B
Ba	BAILE SILT LOAM	D

NOTE:  
-HOWARD SOIL SURVEY, MAP NUMBERS 16.



OFF SITE DRAINAGE AREA  
SCALE: 1"=200'



BALTIMORE NATIONAL PIKE  
U.S. ROUTE 40 (150' R/W)

**LEGEND**

EXISTING GROUND	---	472
PROPOSED GRADE	---	472
EXISTING WATER	---	
EXISTING SEWER	---	
EXISTING STORM DRAIN	---	
EXISTING CURB & GUTTER	---	
PROPERTY LINE	---	
EASEMENT	---	
PROPOSED C&G	---	
PROPOSED STORM DRAIN	---	117LF-15"RCCP CL. IV
PROP. LUMINAIRE: 18.25"x25"		
CLEAR GLASS 400 WATT SUPER		
METAL HALIDE (DOUBLE LIGHT HAS 2 LUMINAIRES)		
SILT FENCE	---	
SUPER SILT FENCE	---	
LIMIT OF DISTURBANCE	---	
STORMDRAIN DRAINAGE DIVIDE	---	
EARTH DIKE	---	
STABILIZED CONSTRUCTION ENTRANCE	---	
SOILS DIVIDE	---	

STONE OUTLET SEDIMENT TRAP NO. 1  
DRAINAGE AREA: 0.80 AC.  
STORAGE REQUIRED: 3240 CF  
BOTTOM DIM.: 60"x18"  
TOP DIM.: 60"x18"  
BOTTOM ELEV.: 395.5-395.5  
TOP ELEV.: 397.5  
WEIR CREST ELEV.: 396.5  
WEIR LENGTH: 4'  
CLEANOUT: 394.3

NOTE: CONTRACTOR TO COORDINATE WITH UTILITY COMPANY WHEN GRADING AROUND UTILITY POLES.

NO.	REVISION	DATE

**CARROLL INDEPENDENT FUEL**  
8300 BALTIMORE NATIONAL PIKE  
GRADING, SEDIMENT CONTROL PLAN AND  
STORMDRAIN DRAINAGE AREA MAP

REFERENCE # BA-96-41E, WP-97-117  
TAX MAP #18 BLOCK 19 PARCEL 60  
2nd ELECTION DISTRICT ZONED: B-2 HOWARD COUNTY, MARYLAND

**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
ELlicott CITY, MARYLAND 21043  
TELEPHONE: (410) 461-5828  
FAX: (410) 465-3968

	DESIGN BY: J.C.O.
	DRAWN BY: J.C.O.
	CHECKED BY: R.H.V.
	DATE: NOVEMBER, 1997
SCALE: 1"=20'	
W.O. NO.: 96-17	
<p>3 SHEET OF 6</p>	

**ENGINEERS CERTIFICATE**

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

*Robert H. Vogel* 2/12/98  
SIGNATURE OF ENGINEER DATE  
ROBERT H. VOGEL

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, 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."

*John Phelps* 3/12/98  
SIGNATURE OF DEVELOPER DATE  
JOHN PHELPS

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Simons* 3/12/98  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Yvonne Kelly* 3/12/98  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John Phelps* 4/1/98  
DIRECTOR DATE

*Candy Hamilton* 3/31/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Alan Dammann* 3/17/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

*John Phelps* 3-23-98  
COUNTY HEALTH OFFICER DATE

ADDRESS CHART  
PARCEL NO. STREET ADDRESS  
60 8300 BALTIMORE NATIONAL PIKE

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
N/A	N/A	60
PLAT NO.	BLOCK NO.	ZONE
N/A	19	B-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
18	2ND	6026
WATER CODE	F 01	SEWER CODE 1451500

G:\ACAD\JOBS\EBERHART\151.DWG

E 369000 N 591250

JACOB FRAIDIN & CHRISTINE A. BECKMAN  
LIBER 948 FOLIO 278  
ZONED R-20  
USE: RESIDENTIAL (CURRENTLY VACANT)

**LANDSCAPE SCHEDULE**

KEY	QTY	BOTANICAL NAME	SIZE	CONT.
PT	9	PINUS THUNBERGIANA/ JAPANESE BLACK PINE	6' - 8' HT.	B & B
P	16	QUERCUS PALUSTRIS/ PIN OAK	2 1/2"-3" CAL	B & B
CF	7	CORNUS FLORIDA RUBRA/ RED FLOWERING DOGWOOD	8' - 10' HT.	B & B
PS	23	PINUS STROBUS/ EASTERN WHITE PINE	6' - 8' HT.	B & B

**SCHEDULE A  
PERIMETER LANDSCAPE EDGE**

LANDSCAPE EDGE	PERIMETER LANDSCAPE EDGE			
	(1)	(2)	(3)	(4)
LANDSCAPE TYPE	C	C	C	B
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	170	290	185	330
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	YES 20	YES 185	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	*	NO
NUMBER OF PLANTS REQUIRED (BASED ON TOTAL PERIMETER)				
SHADE TREES (1:50)	5	8	*N/A	7
EVERGREEN TREES (1:40)	9	15		9
SHRUBS	0	0		0
NUMBER OF PLANTS PROVIDED (BASED ON TOTAL MINUS CREDIT)				
SHADE TREES (1:50)	5	7	2	7
EVERGREEN TREES (1:40)	9	14	0	9
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0

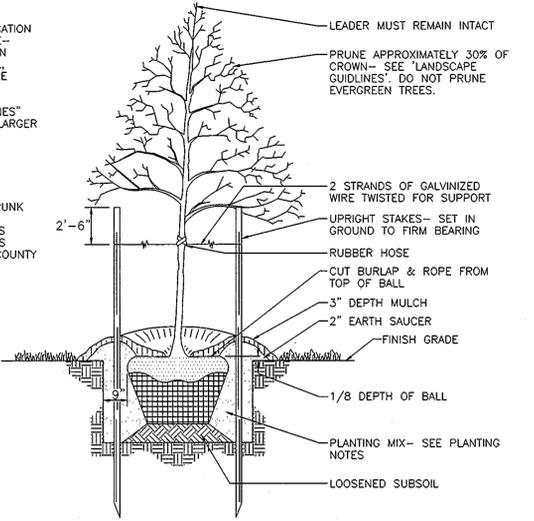
\* BUFFERING FOR LANDSCAPE EDGE 3 IS NOT REQUIRED. EXISTING VEGETATION CURRENTLY EXIST PROPOSED 6" HIGH BOARD ON BOARD FENCE PER BA-96-41E. 2 TREES HAVE BEEN ADDED TO SHIELD LIGHTING. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 55 LANDSCAPE TREES AND 6" FENCE HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$6,720.00.

**PARKING LOT INTERNAL LANDSCAPING**

NUMBER OF PARKING SPACES: 23  
INTERNAL ISLANDS:  
REQUIRED: 1/20 SPACES=1  
PROVIDED: 2  
SHADE TREES:  
REQUIRED: 1/20 SPACES=1  
PROVIDED: 2

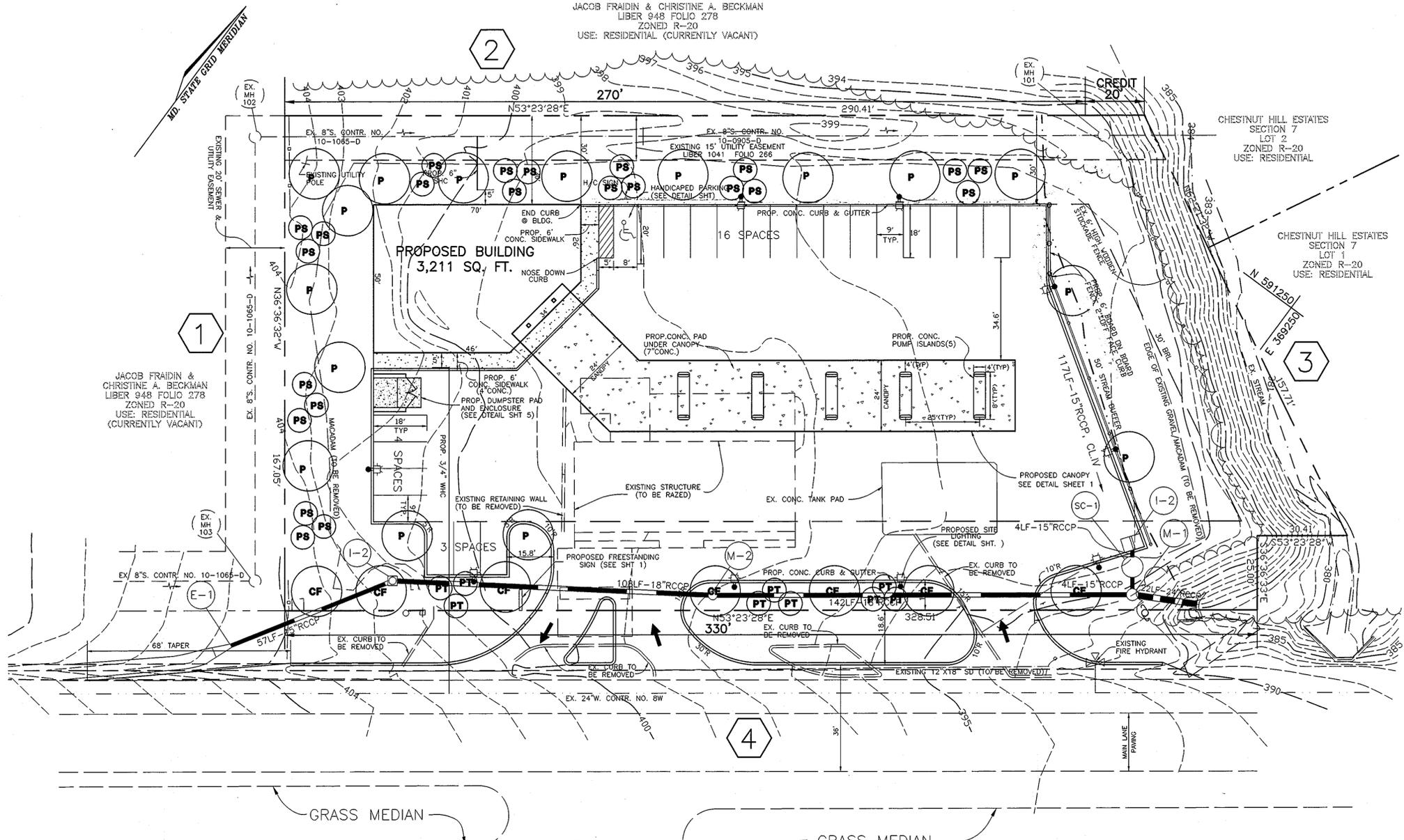
**NOTES**

- SEE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" FOR ALL MATERIAL, PRODUCT, AND PROCEDURE SPECIFICATIONS.
- SEE "LANDSCAPE GUIDELINES" FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIPER.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.



**TREE PLANTING AND STAKING**

DECIDUOUS AND EVERGREEN TREES UP TO 2-1/2" CALIPER NOT TO SCALE



BALTIMORE NATIONAL PIKE  
U.S. ROUTE 40 (150' R/W)

**PLANTING NOTES**

- PLANTS, RELATED MATERIALS, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.
- ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BOXERS AND ALL FORMS OF INFESTATION OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HELED-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
- UNLESS OTHERWISE SPECIFIED, ALL PLANT MATERIAL SHALL CONFORM TO "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60.1-1986, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INCLUDING ALL ADDENDA.
- UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS", (HEREIN-AFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, SEPTEMBER, 1981, INCLUDING ALL ADDENDA.
- CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES, UTILITY CONTRACTORS AND "MISS UTILITY" A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES AND MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANT MATERIALS TO AVOID CONFLICTS WITH UTILITIES.
- PLANTING BED SHALL BE MULCHED WITH 3" OF SHREDDED HARDWOOD BARK MULCH. GROUND COVER BEDS SHALL BE MULCHED TO A DEPTH OF 2".
- ALL AREAS WITHIN THE CONTRACT LIMIT NOT COVERED BY BUILDING, PAVING, PLANTING BEDS OR OTHERWISE DESIGNATED ON THE PLANS SHALL BE SEEDED AND MULCHED OR SODED IN ACCORDANCE WITH "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PERMANENT SEEDING SPECIFICATIONS (SEE SHEET B), INCLUDING ALL ADDENDA, AS DIRECTED BY THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIALS IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE.
- PLANTING MIX SHALL BE DONE AS FOLLOWS:  
DECIDUOUS PLANTS - TWO PARTS TOP SOIL, ONE PART WELL-DOTTED COW OR HORSE MANURE, ADD 3 LBS. OF STANDARD 10-10-10 FERTILIZER PER CUBIC YARD OF PLANTING MIX.  
EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL, ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX.  
TOPSOIL SHALL CONFORM TO LANDSCAPE GUIDELINES.
- THIS PLAN IS INTENDED FOR LANDSCAPE PLAN ONLY. SEE OTHER PLAN SHEETS FOR INFORMATION ON GRADING, SEDIMENT CONTROL, LAYOUT, ETC.
- CONTRACTOR TO ADJUST PLANTINGS AS REQUIRED WITH PRIOR APPROVAL OF THE ENGINEER OR LANDSCAPE ARCHITECT.

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*James Hamilton* 4/1/98  
DIRECTOR DATE

*Candy Hamilton* 3/21/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*William...* 3/17/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE

HOWARD SOIL CONSERVATION DISTRICT DATE

**OWNER**

DAVID EBERHART  
8435 HIGHRISE ROAD  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 465-1719

**DEVELOPER**

JOHN PHELPS  
CARROLL INDEPENDENT FUEL COMPANY  
2700 LOCH RAVEN ROAD  
BALTIMORE, MARYLAND 21093  
TELEPHONE: (410) 235-1066

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

*John...* 7-23-98  
COUNTY HEALTH OFFICER MR DATE

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
60	8300 BALTIMORE NATIONAL PIKE
SUBMISSION NAME	SECTION/AREA
N/A	N/A
PLAT NO.	BLOCK NO.
N/A	19
WATER CODE	F 01
SEWER CODE	1451500
PARCEL NUMBER	60
ELECT. DIST.	2ND
CENSUS TR.	6026

NO. REVISION DATE

**CARROLL INDEPENDENT FUEL**  
8300 BALTIMORE NATIONAL PIKE

**LANDSCAPE PLAN**

REFERENCE # BA-96-41E, WP-97-117  
TAX MAP #18 BLOCK 19 PARCEL 60  
2nd ELECTION DISTRICT ZONED: B-2 HOWARD COUNTY, MARYLAND

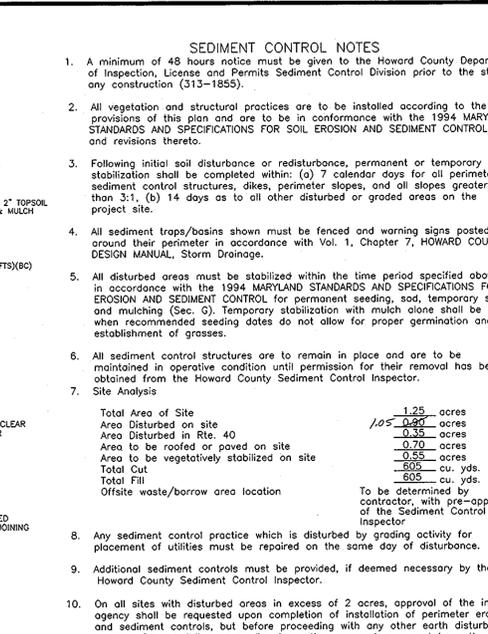
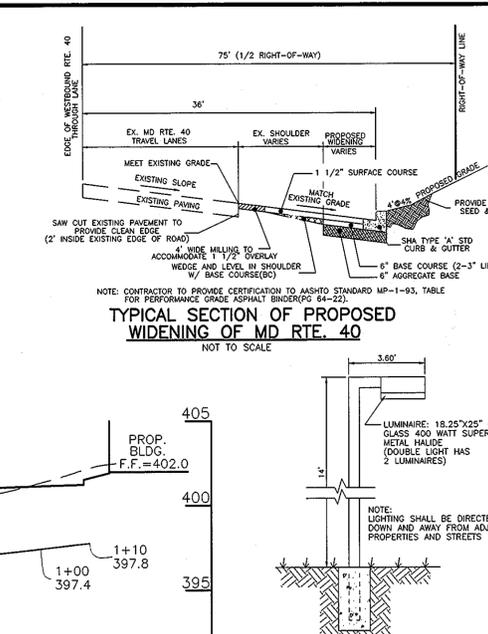
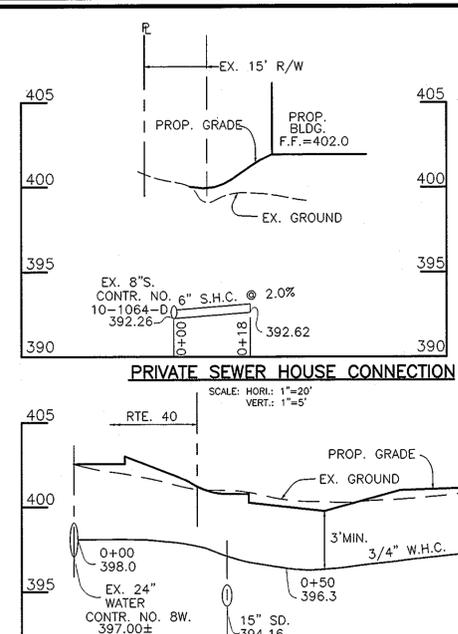
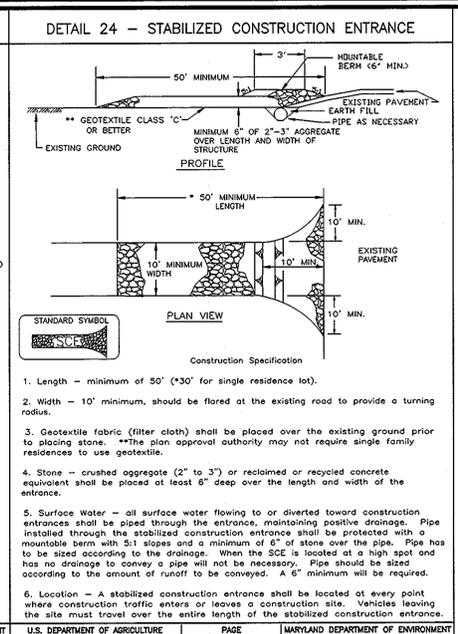
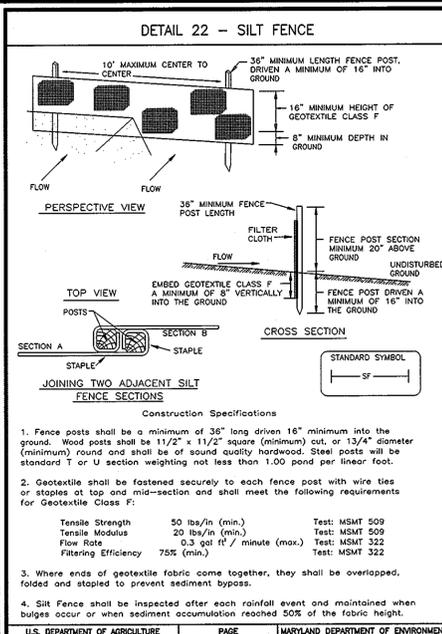
**MARKS & VOGEL ASSOCIATES, INC.**  
ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101  
ELLICOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-5828  
FAX: (410) 465-3966

DESIGN BY: J.C.O.  
DRAWN BY: J.C.O.  
CHECKED BY: R.H.V.  
DATE: NOVEMBER, 1997  
SCALE: 1"=20'  
W.O. NO.: 96-17

4 SHEET OF 6



### SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (313-1855).
- All vegetation 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 thereto.
- Following initial soil disturbance or redistribution, 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 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 7, 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. 5). Temporary stabilization with mulch alone shall 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 on site	1.05 acres
Area to be vegetatively stabilized on site	0.70 acres
Total Area	0.55 acres
Total Cut	605 cu. yds.
Offsite waste/borrow area location	To be determined by contractor, with pre-approval of the 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 controls must be provided, if deemed 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 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 shall be back-filled and stabilized within one working day, whichever is shorter.

### TEMPORARY SEEDING

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 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 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 5 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1993 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

### PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent, long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

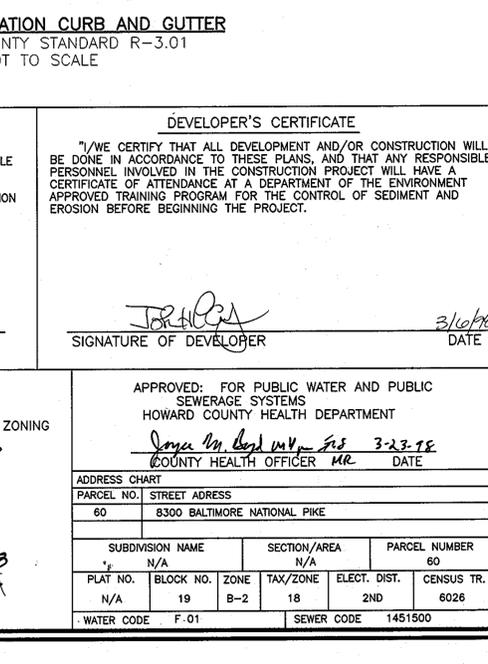
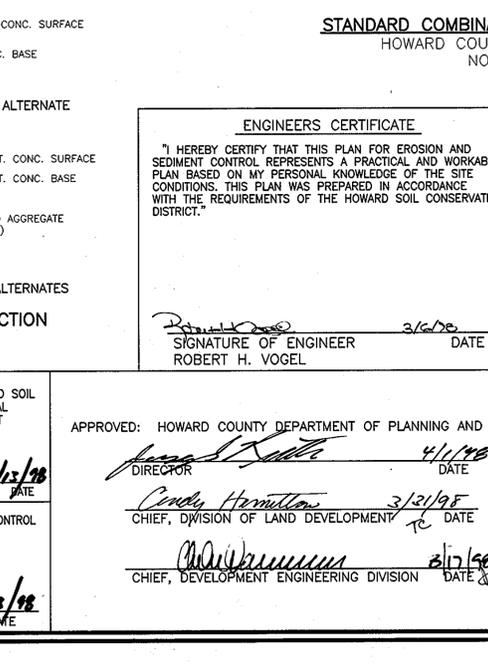
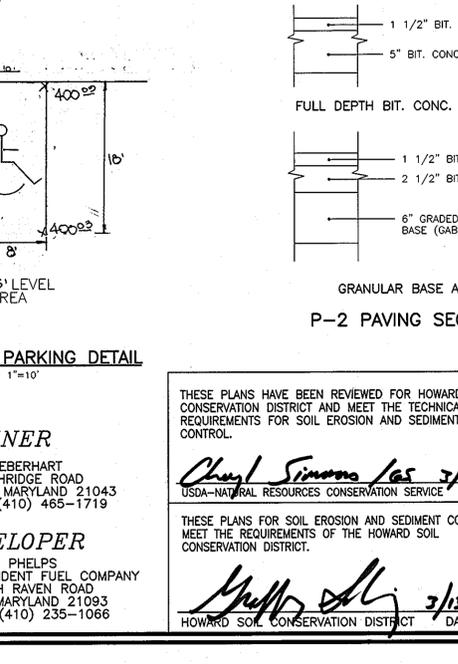
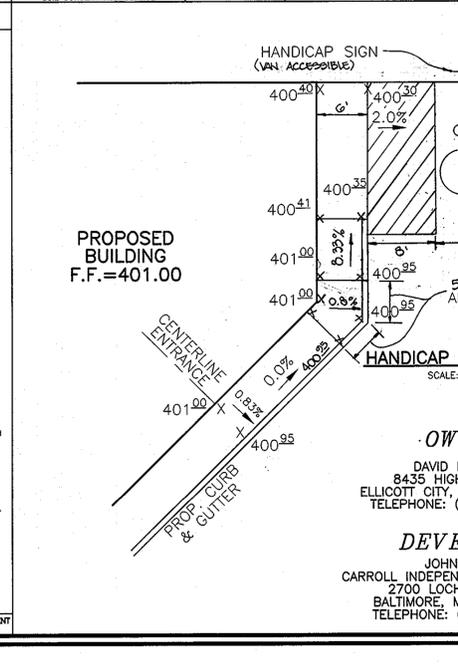
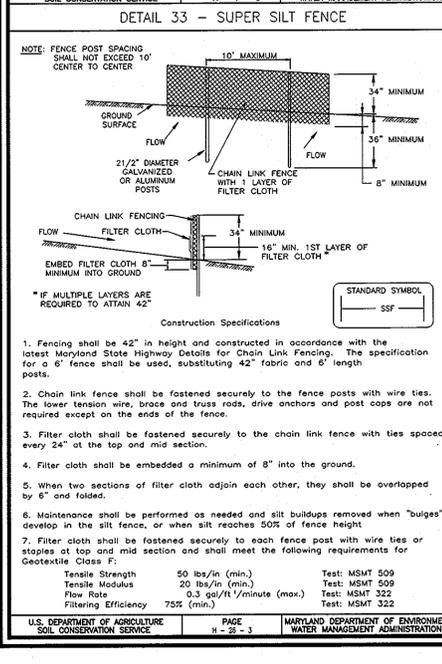
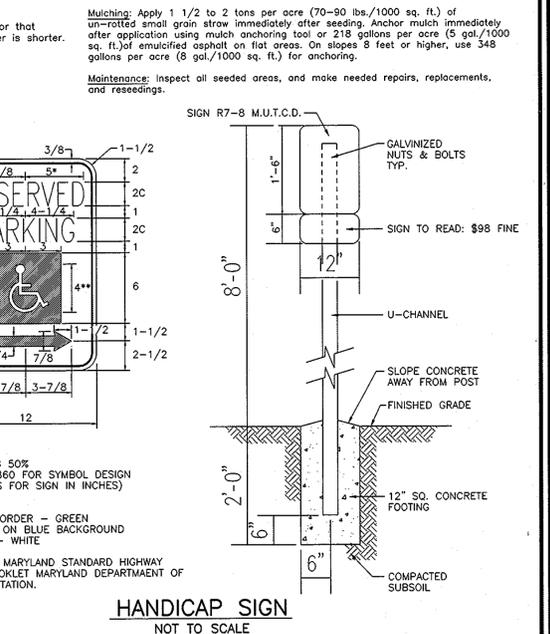
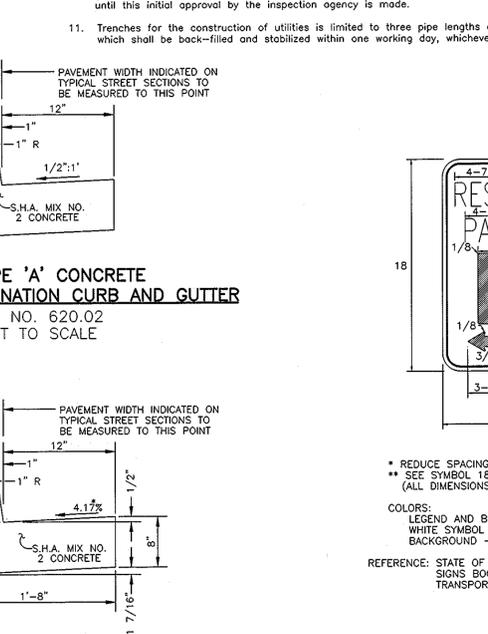
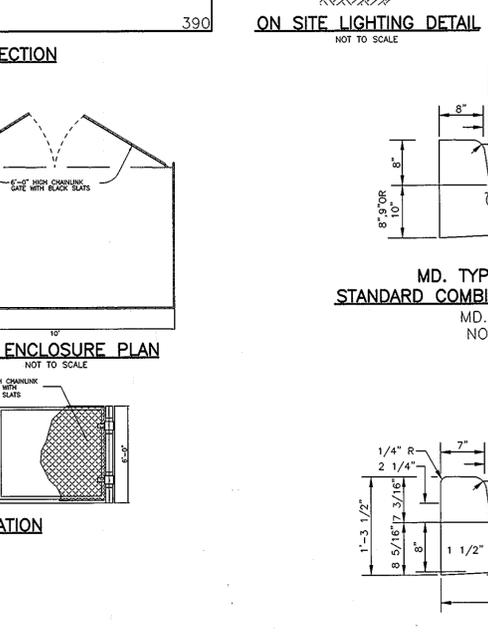
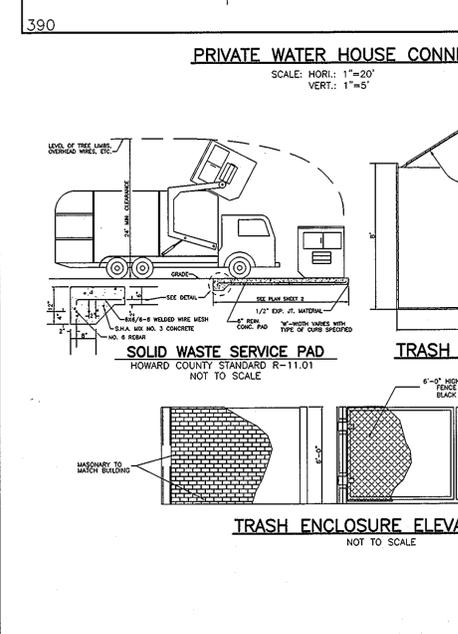
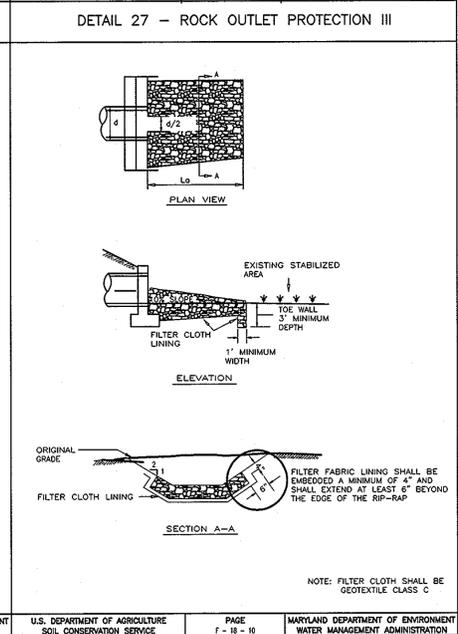
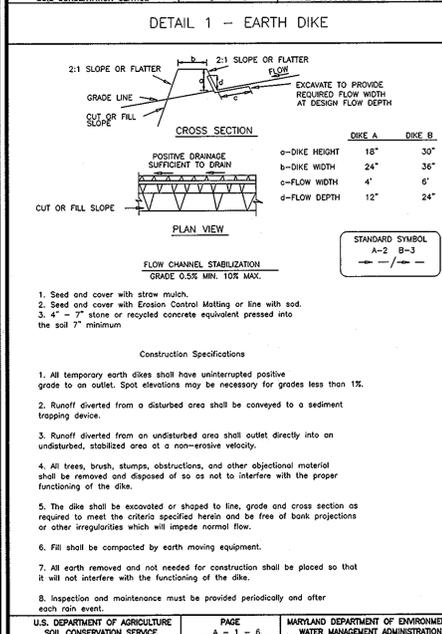
Soil Amendments: Use one of the following schedules:

- Preferred - 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 3 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 disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70-90 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.) emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas, and make needed repairs, replacements, and reseedings.



### CARROLL INDEPENDENT FUEL

8300 BALTIMORE NATIONAL PIKE

DETAIL SHEET

REFERENCE # BA-96-41E, WP-97-117  
TAX MAP EDC  
2nd ELECTION DISTRICT ZONED: B-2 HOWARD COUNTY, MARYLAND

PARCEL 60

### MARKS & VOGEL ASSOCIATES, INC.

ENGINEERS - SURVEYORS - PLANNERS

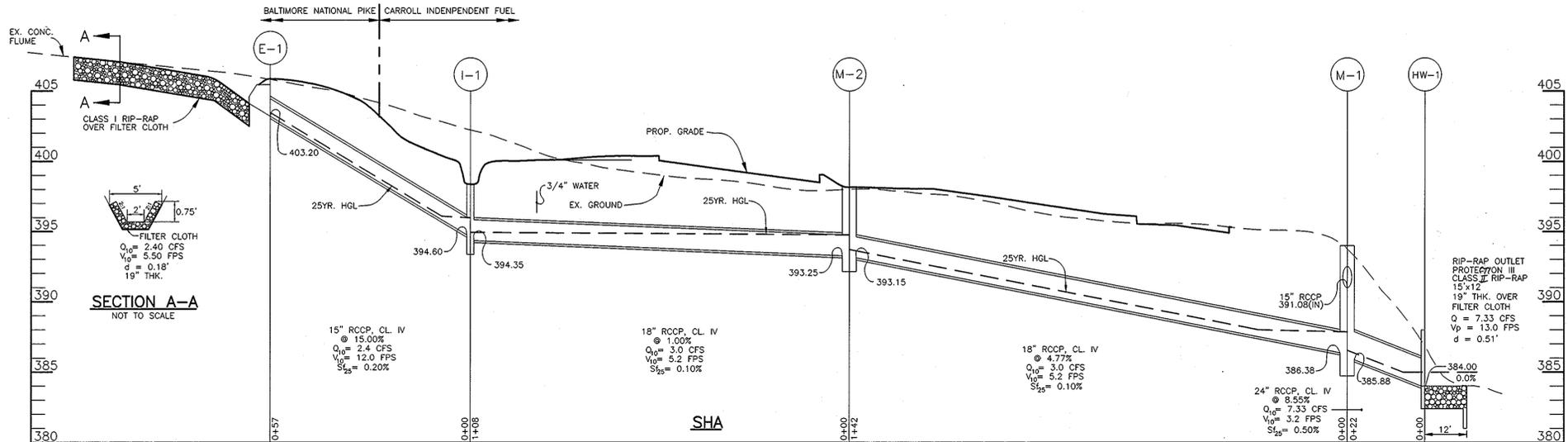
3691 PARK AVENUE, SUITE 101  
ELLICOTT CITY, MARYLAND 21043

TELEPHONE: (410) 461-8828  
FAX: (410) 465-3896

DESIGN BY: J.C.O.  
DRAWN BY: J.C.O.  
CHECKED BY: R.H.V.  
DATE: NOVEMBER, 1997  
SCALE: AS SHOWN  
W.D. NO.: 96-17

5 SHEET OF 6

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



STORM DRAIN PROFILE

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT 410 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.....1 DAY
- INSTALL EARTH DIKES, SILT FENCE AND SEDIMENT TRAP.....3 DAYS
- WITH SEDIMENT CONTROL DEVICES IN PLACE AND PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, INSTALL STORM DRAIN SYSTEM(DIRECT FLOW FROM TRAP).....5 DAYS
- REMOVE EX. STORM DRAIN PIPE AND CONCRETE FLUME ALONG RTE. 40 AS NECESSARY.....3 DAYS
- WITH STORM DRAIN SYSTEM INSTALLED AND PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, PROCEED WITH CONSTRUCTION OF SHA WIDENING AND CURB & GUTTER.....3 DAYS
- BEGIN CLEARING AND GRADING SITE.....4 DAYS
- INSTALL WATER & SEWER CONNECTIONS.....1 WEEK
- CONSTRUCT BUILDING.....1 MONTH
- FINE GRADE SITE AND INSTALL REMAINING CURB & GUTTER AND PAVING.....1 WEEK
- STABILIZE ANY DISTURBED AREAS AND INSTALL LANDSCAPING.....3 DAYS
- DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
  - 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.
- UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

STRUCTURE SCHEDULE

NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	LOCATION	DETAIL NO.
I-1	YARD INLET	398.60	15" 394.60	18" 394.35	N 590,995 E 369,061	MSHA MD-381.02
I-2	DOUBLE 'S' INLET	394.80	15" 391.52	15" 391.52	N 591,154 E 369,254	HO.CO. SD 4.34
SC-1	STORMCEPTOR 1200	394.70	15" 391.40	15" 391.32	N 591,148 E 369,259	MODEL 1200
M-1	PRECAST MANHOLE	394.00	18" 385.88	18" 385.88	N 591,140 E 369,263	MSHA MD-383.00
M-2	PRECAST MANHOLE	398.30	18" 393.25	18" 393.15	N 591,055 E 369,151	MSHA MD-383.00
HW-1	TYPE "F" ENDWALL	-	-	24" 384.00	N 591,152 E 369,286	MSHA MD-358.01
E-1	CONCRETE END SECTION	-	15" 403.20	-	N 590,945 E 369,030	MSHA MD-368.01

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY STRUCTURE

INSPECTION AND MAINTENANCE REQUIRED FOR ON SITE STORMWATER MANAGEMENT DEVICES SHALL BE RESPONSIBILITY OF THE OWNER OF THE PROPERTY. PRIVATE STORMWATER MANAGEMENT DEVICES MUST BE INSTALLED UNDER A GRADING PERMIT AND REQUIRE A PRIVATE MAINTENANCE AGREEMENT.

THE STORMCEPTOR WILL BE VISUALLY INSPECTED BI-ANNUALLY FOR THE PRESENCE OF OIL AND FUEL AND SEDIMENT BY REMOVING THE MANHOLE COVER. ANY OBSTRUCTIONS WILL BE CLEARED. THE SEDIMENT IS TO BE REMOVED WHEN THE SEDIMENT DEPTH EXCEEDS MANUFACTURERS SPECIFIED LEVEL, BUT AT A MINIMUM OF YEARLY INTERVALS.

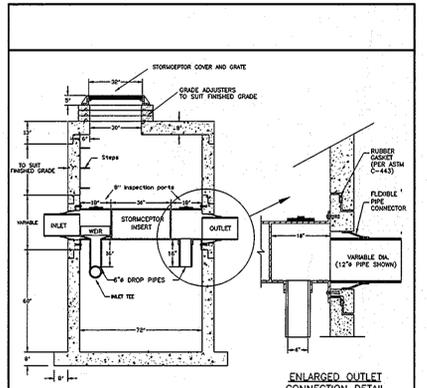
REMOVAL OF THE MATERIALS IS TO BE PERFORMED BY A LICENSED WASTE MANAGEMENT COMPANY AND DISPOSAL IN ACCORDANCE WITH CURRENT REGULATIONS.

THE MAINTENANCE OF THE STORMCEPTOR UNIT SHALL BE DONE USING A VACUUM TRUCK WHICH WILL REMOVE THE WATER, SEDIMENT, DEBRIS, FLOATING HYDROCARBONS AND OTHER MATERIALS IN THE UNIT. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED BY THE OWNER.

THE OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO ANNE ARUNDEL COUNTY INSPECTION AND ENVIRONMENTAL PROGRAMS WITHIN FOURTEEN DAYS OF THE SCHEDULED MAINTENANCE DATE.

INSPECTION SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND OF HIS REPRESENTATIVE. ALL FORMS AND SUBMITTALS SHALL BE SIGNED AND SEALED.

IF INSPECTION REQUIRES REPAIR TO THE INLET OR OUTLET PIPES, STRUCTURE PARTS, GENERAL ASSEMBLY OR ANY FUNCTIONAL COMPONENTS OF THIS DEVICE, THE REPAIR SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER AND AS-BUILT DRAWINGS OF THE REPAIR SHALL BE SUBMITTED TO ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND ENVIRONMENTAL PROGRAMS. THESE SHALL BE IN ADDENDUM TO THE MAINTENANCE/INSPECTION FORM FROM WHICH THE REPAIR RESULTED.



NO.	DATE	DESCRIPTION
05/16/95	HTS	U.S.

STC 1200 PRECAST CONCRETE STORMCEPTOR  
1200 US GALLON CAPACITY

STORMCEPTOR ORDER INFORMATION

STORMCEPTOR MODEL: 1200  
 STRUCTURE: SC-1  
 TOP ELEVATION: 395.20  
 INLET PIPE INVERT: 391.40  
 OUTLET PIPE INVERT: 391.32  
 PIPE SIZE: 15" RCCP

NOTE:  
 SEE DRAINAGE AREA MAP FOR CONTRIBUTING IMPERVIOUS AREA TO STORMCEPTOR.  
 AREAS: 0.70

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

PURPOSE

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH material toxic to plants, and/or unacceptable soil gradation.

CONDITION WHERE PRACTICE APPLIES

- This practice is limited to areas having 2:1 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
  - The original soil to be vegetated contains material toxic to plant growth.
  - The soil is so acidic that treatment with limestone is not feasible.

For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- 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 Experimental Station.
- 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, or other soil 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 less than 2% by volume of cinders, 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, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, 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 2-8 tons/acre (200-400 pounds per 1,000 square feet), prior to 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.

- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Material.

- For sites having disturbed areas over 5 acres:
  - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - Organic content of topsoil shall not be less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
  - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

- Place a topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization, structures, earth dikes, slope silt fence and sediment traps and basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" higher in elevation.
- Topsoil shall be uniformly distributed in a 4"-8" layer, and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodging or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the formation of depressions or water pockets.
- 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.

OWNER

DAVID EBERHART  
 8435 HIGHRISE ROAD  
 ELLICOTT CITY, MARYLAND 21043  
 TELEPHONE: (410) 465-1719

DEVELOPER

JOHN PHELPS  
 CARROLL INDEPENDENT FUEL COMPANY  
 2700 LOCH RAVEN ROAD  
 BALTIMORE, MARYLAND 21093  
 TELEPHONE: (410) 235-1066

ENGINEERS CERTIFICATE

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

Signature of Engineer: Robert H. Vogel  
 Date: 3/12/98

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, 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."

Signature of Developer: [Signature]  
 Date: 3/16/98

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Signature: Cheryl Simms  
 Date: 3/12/98  
 USDA-NATURAL RESOURCES CONSERVATION SERVICE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: [Signature]  
 Date: 3/12/98  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: [Signature]  
 Date: 4/1/98  
 Director

Signature: [Signature]  
 Date: 3/25/98  
 Chief, Division of Land Development

Signature: [Signature]  
 Date: 3/12/98  
 Chief, Development Engineering Division

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

Signature: [Signature]  
 Date: 3/23/98  
 County Health Officer

ADDRESS CHART					
PARCEL NO.	STREET ADDRESS				
60	8300 BALTIMORE NATIONAL PIKE				
SUBDIVISION NAME	SECTION/AREA				
N/A	N/A				
PARCEL NUMBER	60				
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
N/A	19	B-2	18	2ND	6026
WATER CODE	F 01	SEWER CODE	1451500		

CARROLL INDEPENDENT FUEL  
 8300 BALTIMORE NATIONAL PIKE  
 STORM DRAIN PROFILES

REFERENCE # BA-96-41E, WP-97-117  
 TAX MAP #18 BLOCK 19 PARCEL 60  
 2nd ELECTION DISTRCT ZONED: B-2 HOWARD COUNTY, MARYLAND

MARKS & VOGEL ASSOCIATES, INC.

ENGINEERS - SURVEYORS - PLANNERS

3691 PARK AVENUE, SUITE 101 TELEPHONE: (410) 461-5828  
 ELLICOTT CITY, MARYLAND 21048 FAX: (410) 465-3966

DESIGN BY: J.C.O.	6 SHEET OF 6
DRAWN BY: J.C.O.	
CHECKED BY: R.H.V.	
DATE: NOVEMBER, 1997	
SCALE: AS SHOWN	
W.O. NO.: 96-17	