

LEGEND

EXISTING	PROPOSED

BENCH MARKS

#1	RE-BAR & CAP	ELEV. = 472.08'
#2	RE-BAR & CAP	ELEV. = 473.29'
#3	RE-BAR & CAP	ELEV. = 475.10'

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.

Joyce M. Boyd M.P. - E.I.
 DATE: 12-17-96
 HOWARD COUNTY HEALTH DEPARTMENT:

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:

Charles Damers
 DATE: 11/19/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blood
 DATE: 12/16/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph Rutter, Jr.
 DATE: 12/24/96
 DIRECTOR

EXPOSED STONE CHIMNEY TO TRENCH

OBSERVATION WELL SEE DETAIL SHEET C-4

LIMITS OF STONE FILLED INFILTRATION TRENCH - TOP OF STONE = 468.0'

NO.	DATE	DESCRIPTION	BY

24 L.F. SODDED CHANNEL
 $Q_{10} = 6.4$ CFS
 $V = 1.4$ FPS
 BOT. WD. = 10'
 SIDE SLOPES = 2 TO 1

15 L.F. MSHA CLASS 1 RIP-RAP
 $Q_{10} = 6.4$ CFS
 $V = 1.4$ FPS
 SIDE SLOPES = 2 TO 1

CALL "MISS UTILITY"
 TELEPHONE 1-800-257-7777
 FOR UTILITY LOCATIONS
 AT LEAST 48 HOURS BEFORE
 BEGINNING CONSTRUCTION

OWNER/DEVELOPER
 SDMC ASSOCIATES
 21 BAY DRIVE
 ANNAPOLIS, MD 21043



SITE ANALYSIS

LOT AREA = 2.54 AC.
 ZONE = B-2
 USE = RETAIL, RESTAURANT & MEDICAL OFFICE
 PREVIOUS REF. #S F-82-19, F-82-141, SDP-83-47, F-90-35 & F-94-113

STRUCTURES	COVERAGE	G.F.A.
EXISTING BUILDING	7,900 S.F.	7,900 S.F.
PROPOSED BUILDING	8,333 S.F.	8,333 S.F.
PROPOSED ADDITION	256 S.F.	256 S.F.
TOTAL	16,489 S.F.	16,489 S.F.

PARKING	USE	AREA	REQUIRED	PROPOSED
USE	SHOPPING CENTER	8156 S.F.	5/1,000 S.F. = 41	(16,489)
	MEDICAL OFFICE	2333 S.F.	5/1,000 S.F. = 42	
	TOTAL	10,490 S.F.	83 SPACES	

* INCLUDES 4 REQUIRED SPACES FOR THE HANDICAPPED.

GREEN SPACE = 44,000 S.F. (0.40%)

- GENERAL NOTES**
- THE TOPOGRAPHY IS FROM A FIELD RUN SURVEY PREPARED BY M.H.G. DATED SEPTEMBER, 1995. THE BOUNDARY IS FROM A RECORD PLAT ENTITLED FOSTER PROPERTY, LOT A-2, PLAT NO. 11307.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCE IS LESS THAN SHOWN ON THIS PLAN CONTACT THIS OFFICE.
 - SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION INSPECTION AT 301-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE HOWARD COUNTY HEALTH DEPARTMENT SHALL BE NOTIFIED AT 410-313-2840 TO INSPECT THE ABANDONING OF WELLS.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA.
 - ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - HANDICAP PARKING, ACCESS, HANDRAILS AND RAILINGS FOR THE DISABLED SHALL CONFORM TO THE "AMERICANS WITH DISABILITIES ACT", (ADA) REQUIREMENTS.
 - DOMESTIC WATER WILL BE PROVIDED BY THE PUBLIC WATER SYSTEM AND THE SEWERAGE DISPOSAL WILL BE A PRIVATE ON SITE SYSTEM.
 - FINISHED GRADES REFER TO THE TOP OF SOD, TOPSOIL, PAVEMENT OR WALKS. ALLOW FOR THICKNESS AS APPLICABLE WHEN GRADING.
 - SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS TO PROVIDE POSITIVE DRAINAGE OF ALL AREAS GRADED OR DISTURBED BY THIS CONSTRUCTION. MAXIMUM SLOPE ON EARTH BANKS IS 2:1.
 - THIS SITE IS AN EXISTING LOT WITH LESS THAN 40,000 S.F. OF FOREST. A FOREST CONSERVATION EXEMPTION HAS BEEN APPLIED FOR (C.O.S.).
 - STORMWATER QUALITY IS PROVIDED BY A STORMCCEPTOR DEVICE AND QUANTITY MANAGEMENT IS PROVIDED BY AN INFILTRATION STRUCTURE.

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
A-2	12208 CLARKSVILLE PIKE

PERMIT INFORMATION CHART				
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #		
FOSTER PROPERTY		A-2		
PLAT #	BLOCK	ZONE	TAX MAP	ELEC. DIST.
11307	6	B-2	34	05
WATER CODE	SEWER CODE	CENSUS TRACT		
I-10		6051		

SITE DEVELOPMENT PLAN
 Clarksville Medical Building
 LOT A-2 PLAT 11307
FOSTER PROPERTY
 H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

Designed MDP
 Drawn ADCADD-13

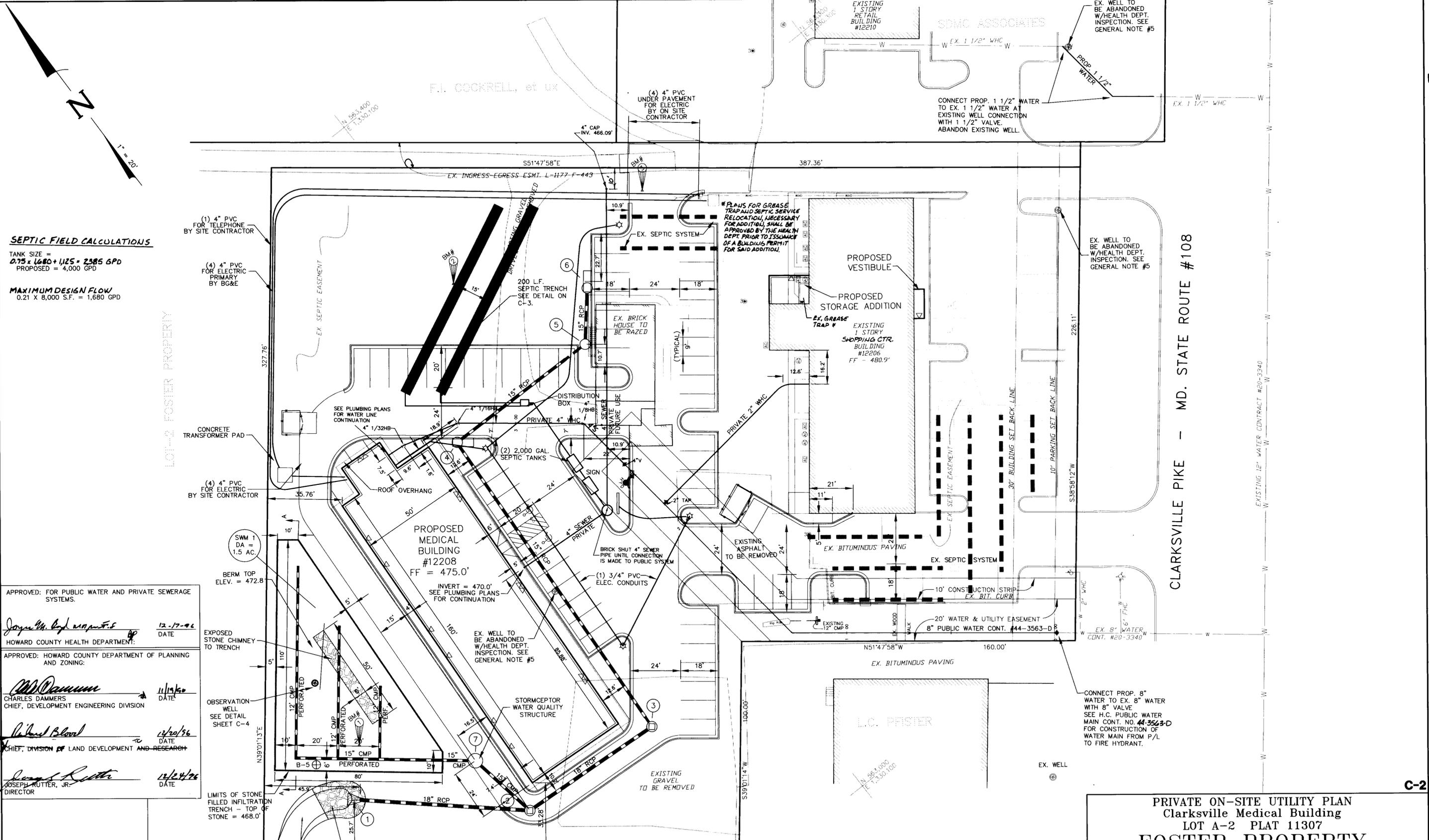
Date 10-24-96
 Scale 1" = 20'

Job No. 92-322
 Sheet 1 of 2

Macris, Hendricks & Glascock, P.A.
 Engineers • Planners • Surveyors
 Suite 120
 9220 Wightman Road
 Gaithersburg, Maryland
 20879
 (301) 670-0840
 FAX (301) 948-0693

M.H.G. - HENDRICKS & GLASCOCK
 1:1041A USGSK90A1923222(06)SP_00_01 Thu Oct 24 09:51:07 1996

SDP-96-76



SEPTIC FIELD CALCULATIONS
 TANK SIZE =
 $0.75 \times 1680 + 1125 = 2385 \text{ GPD}$
 PROPOSED = 4,000 GPD
MAXIMUM DESIGN FLOW
 $0.21 \times 8,000 \text{ S.F.} = 1,680 \text{ GPD}$

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
 DATE: 12-17-96
 HOWARD COUNTY HEALTH DEPARTMENT:
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:
 DATE: 11/15/96
 DATE: 12/20/96
 DATE: 12/24/96

LOT A-2 FOSTER PROPERTY

CLARKVILLE PIKE - MD. STATE ROUTE #108

NO.	DATE	DESCRIPTION	BY

CALL "MISS UTILITY"
 TELEPHONE 1-800-257-7777
 FOR UTILITY LOCATIONS
 AT LEAST 48 HOURS BEFORE
 BEGINNING CONSTRUCTION

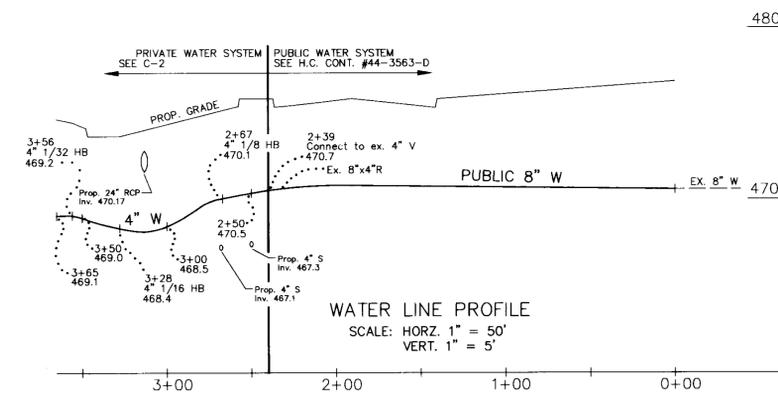
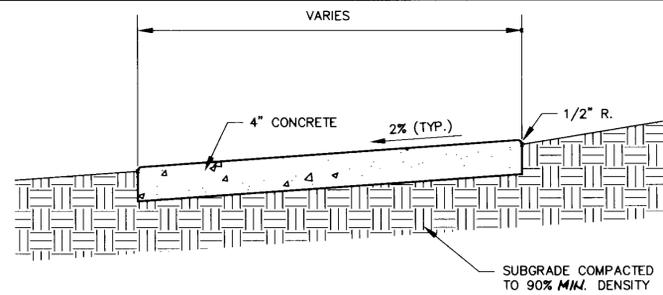
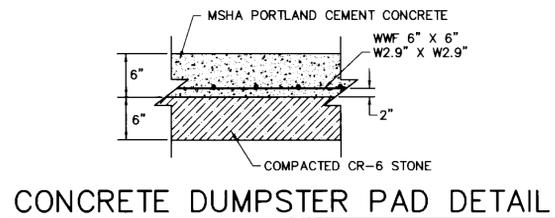
PRIVATE ON-SITE UTILITY PLAN
 Clarksville Medical Building
 LOT A-2 PLAT 11307
FOSTER PROPERTY
 H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A.
 Engineers • Planners • Surveyors
 Suite 120
 9220 Wightman Road
 Gaithersburg, Maryland
 20879
 (301) 670-0840
 FAX (301) 948-0693

Designed MDP	Drawn ADCADD-13
Date 10-24-96	Scale 1" = 20'
Job No. 92-322	Sheet 2 of 2

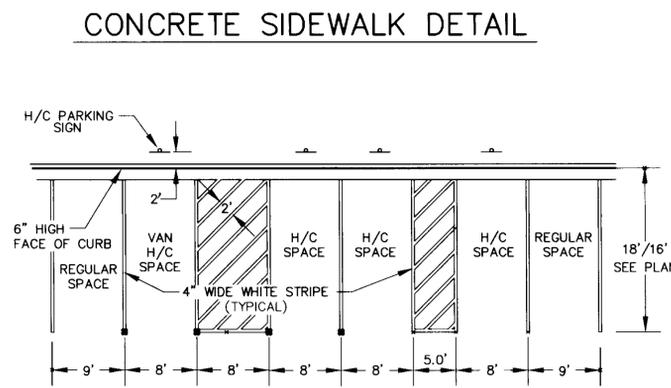
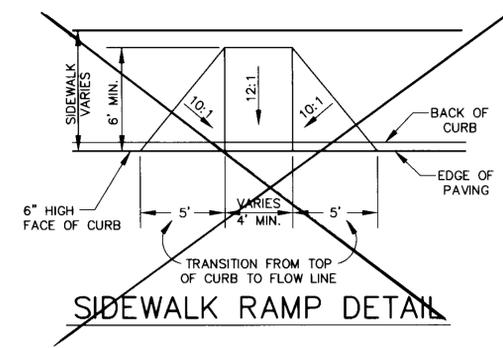
I:\DATA\SDSKPROJ\92322\DWG\SP_00_02.dwg, 01/24/97 09:54:21, 1996

SDP-96-76

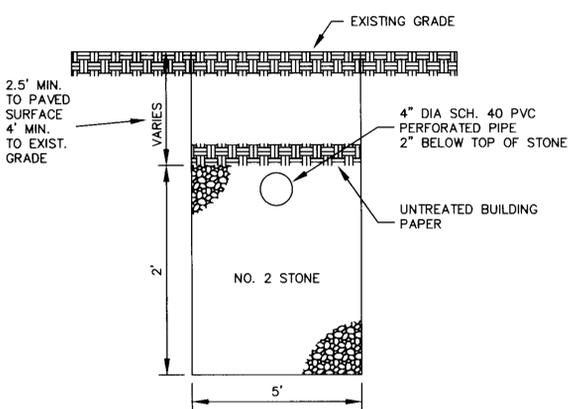


PRIVATE PIPE SCHEDULE		
SIZE	TYPE	LENGTH
4" W	SEE GENERAL NOTES	125'
2" W	-	93'

PRIVATE STRUCTURE SCHEDULE	
QTY	TYPE
1	4" 1/8 HB
1	4" 1/16 HB
1	4" 1/32 HB



PARKING SPACE STRIPING DETAIL



SEPTIC TRENCH DETAIL
THE TRENCHES ARE TO BE INSPECTED BY THE HOWARD COUNTY HEALTH DEPARTMENT BEFORE THE STONE IS PLACED.

RESERVED PARKING SIGN
COLORS
LEGEND & BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE

EACH ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED BY AN APPROVED SIGN WITH THE BOTTOM EDGE AT LEAST 7.5 FEET ABOVE THE GROUND, UNLESS THE SIGN IS PLACED FLUSH AGAINST A BUILDING, STRUCTURE, OR OTHER LOCATION THAT DOES NOT ABSTRACT VEHICLE OR PEDESTRIAN TRAFFIC, IN WHICH CASE THE SIGN SHALL BE AT LEAST 6.5 FEET ABOVE THE GROUND.

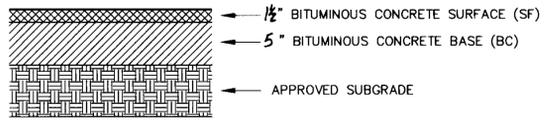
AN ADDITIONAL SIGN DISPLAYING THE AMOUNT OF THE FINE FOR UNAUTHORIZED USE IS REQUIRED BY HOWARD COUNTY. THIS ADDITIONAL SIGN IS TO BE PLACED THE IDENTIFICATION SIGN AND THE BOTTOM OF THE SIGN IS TO BE NO LOWER THAN 7' FROM THE GROUND.

VAN SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE RESERVED PARKING SIGN.

SIGNS SHALL BE IN CONFORMANCE WITH THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE PAVEMENT SHALL BE MARKED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. (REFER TO THE FEDERAL REGISTER VOL. 56, NO. 144, 4.30 SIGNAGE).

DISABLED PARKING SIGNAGE

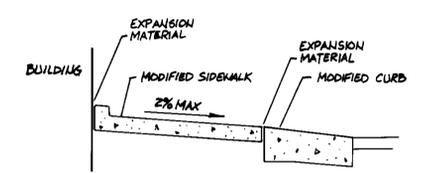


BITUMINOUS PAVING SECTION

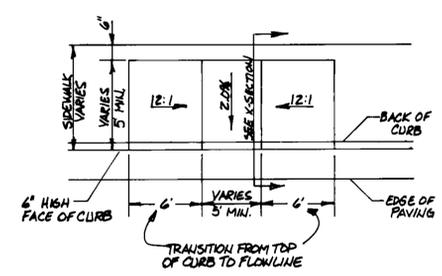
NOTE: THIS PAVING SECTION IS BASED ON HOWARD COUNTY'S PAVING STANDARD P-2. THE CONTRACTOR SHOULD HAVE THE SOIL TESTED AT THE TIME OF CONSTRUCTION AND HAVE A SOILS ENGINEER EVALUATE THE PAVING SECTIONS.

PAVING NOTES

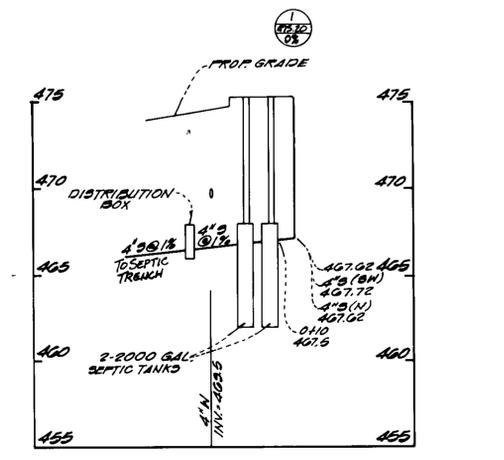
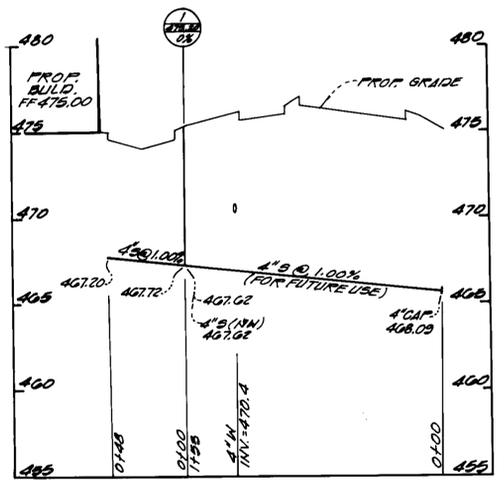
1. BITUMINOUS PAVING AND CONCRETE MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, AND THE HOWARD COUNTY STANDARD SPECIFICATIONS & DETAILS FOR CONSTRUCTION.
2. THE PAVING SECTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD R-2. THIS IS A STANDARD SECTION BASED ON USE. THE CONTRACTOR SHALL HAVE A SOILS ENGINEER EVALUATED THE SOIL AND VERIFY THE ADEQUACY OF THE SECTION AT THE TIME OF CONSTRUCTION.
3. ALL CURB RADII TO BE 5' UNLESS OTHERWISE NOTED.
4. ALL CURB SHALL BE CONCRETE CURB CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD R-3.01.
5. WHEN TYING INTO EXISTING PAVING, TRIM PAVING EDGE TO PROVIDE A CLEAN, STRAIGHT AND VERTICAL JOINT. WHEN REMOVING EXISTING CURB OR SIDEWALK, REMOVE TO THE NEAREST JOINT.
6. NOSE DOWN TERMINATING CURBS WITH 2' TRANSITION.



X-SECTION



SIDEWALK RAMP (TYPE 2)



- PRIVATE ON-SITE WATER LINE NOTES
1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
 2. All horizontal controls are based on Maryland State Coordinates. (North American Datum of 1983 [NAD'83]).
 3. All vertical controls are based on U.S.G.S. data.
 4. All pipe elevations shown are invert elevations.
 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
 6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
 7. Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
 8. Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:

State Highway Administration	410-531-5533
BGE Contractor Services	410-850-4620
BGE Underground Damage Control	410-787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	410-795-1390
Howard County Department of Public Works	
Bureau of Utilities	410-313-4900
 9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
 10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
 11. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval for these drawings will constitute compliance with DPW requirements per Section 18.114(d) of the Howard County Code.
 12. All water mains to be D.I.P. Class 52 unless otherwise noted.
 13. Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
 14. Valves adjacent to tees shall be strapped to tees.
 15. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
 16. The contractor shall not operate any water main valves on the existing water system.
 17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.

Joseph M. Rutter, Jr. 12-12-96
DATE
HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:

Charles Damers 11/19/96
DATE
CHARLES DAMERS
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blood 12/20/96
DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph Rutter, Jr. 12/24/96
DATE
JOSEPH RUTTER, JR.
DIRECTOR

CALL "MISS UTILITY"
TELEPHONE 1-800-257-7777
FOR UTILITY LOCATIONS
AT LEAST 48 HOURS BEFORE
BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY

SITE DETAILS, NOTES & WATER LINE PROFILE
Clarksville Medical Building
LOT A-2 PLAT 11307
FOSTER PROPERTY
H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Designed MDP/JR
Drawn MDP

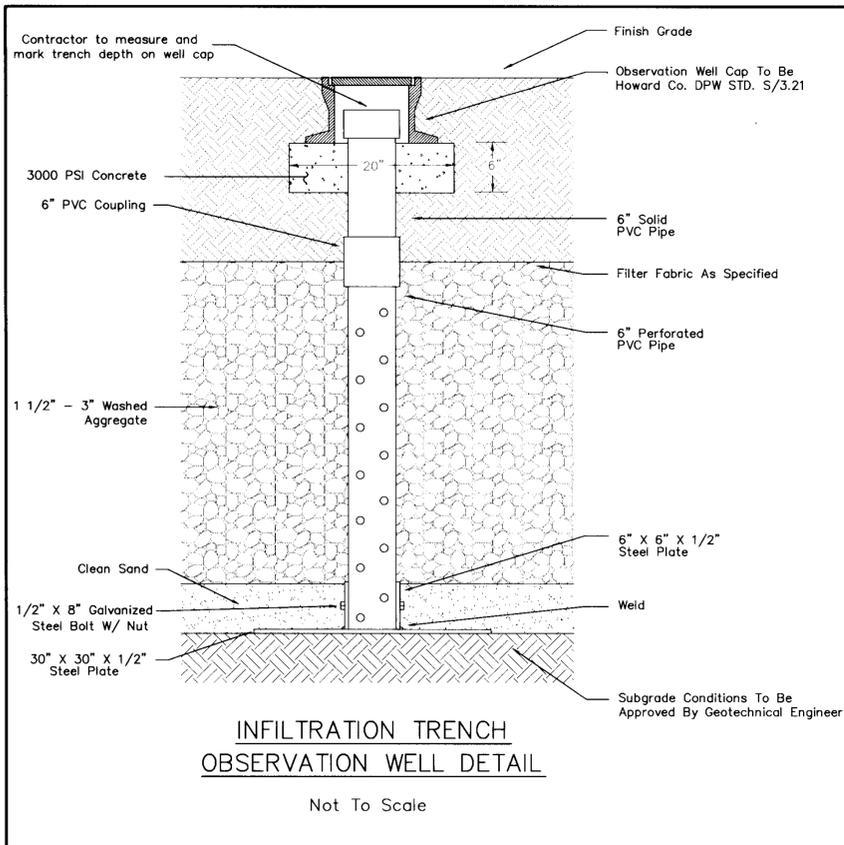
Macris, Hendricks & Glascock, P.A.
Engineers • Planners • Surveyors

Suite 120
9220 Wightman Road
Gaithersburg, Maryland 20879

(301) 670-0840
FAX (301) 948-0693

Date AS NOTED
Scale AS NOTED
Job No. 92-322
Sheet 3 of 2





**INFILTRATION TRENCH
OBSERVATION WELL DETAIL**
Not To Scale

INFILTRATION TRENCH NOTES

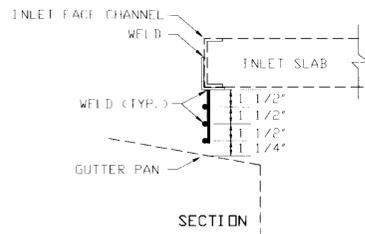
1. All silt and sediment shall be removed from trench surface when accumulation exceeds one inch.
2. Paper, Trash, and other debris shall be removed as necessary.
3. Vegetation growing in trench area shall not exceed 18 inches in height at any time.
4. Corrective maintenance shall be performed any time the trench does not drain down completely within 96 hours.
5. Water level monitoring at the observation well should be performed after every major storm event.
6. Infiltration trench shall be inspected annually and repairs made as needed.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
Joseph M. Rutter, Jr. 12-17-96 DATE
HOWARD COUNTY HEALTH DEPARTMENT:

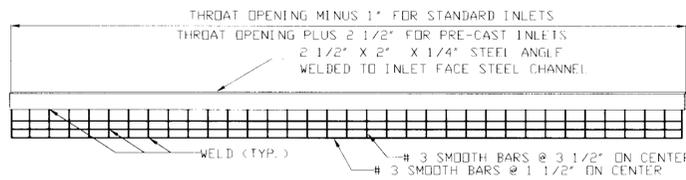
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:
Charles Dammers 11/19/96 DATE
CHARLES DAMMERS
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blomel 12/20/96 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph Rutter, Jr. 12/24/96 DATE
JOSEPH RUTTER, JR.
DIRECTOR



SECTION



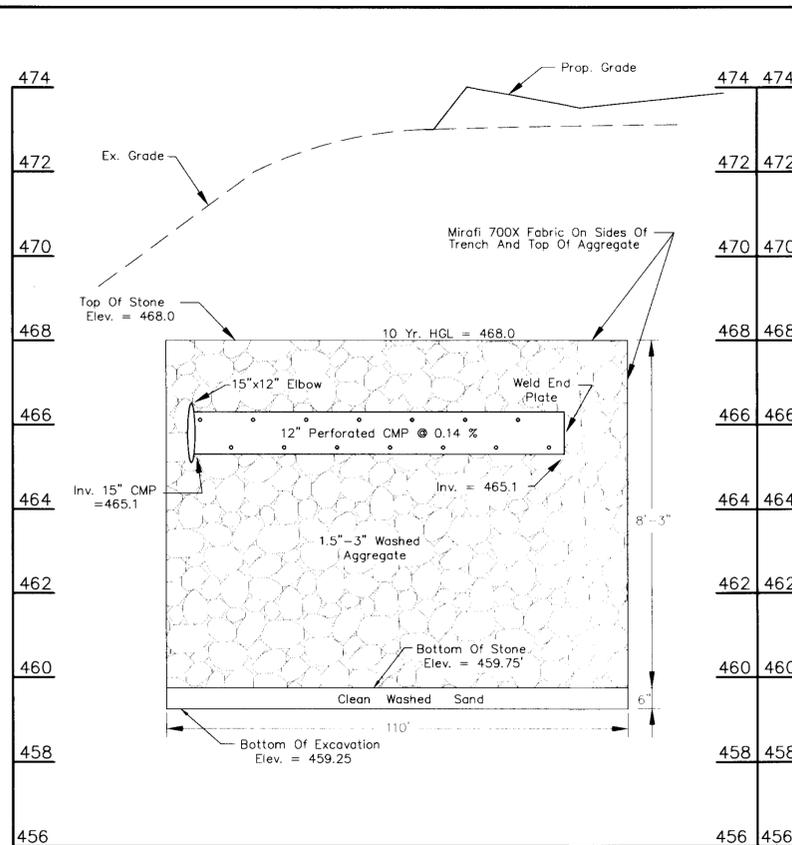
FRONT VIEW
INLET THROAT TRASH RACK DETAIL

GENERAL NOTES FOR TRASH RACK

1. STEEL TO CONFORM TO ASTM A-36. ALL BARS TO BE SMOOTH.
2. ALL SURFACES TO BE COATED WITH 2 COATS ZRC COLD GALVANIZING COMPOUND AFTER FABRICATION. TRASH RACK(S) MAY ALSO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. TRASH RACK ANGLE TO BE NOTCHED AS NECESSARY TO CLEAR INLET PIPE SUPPORT AND/OR FILLETS AT THE ENDS OF PRE-CAST INLETS.
4. TRASH RACK(S) TO BE CENTERED OVER OPENING.

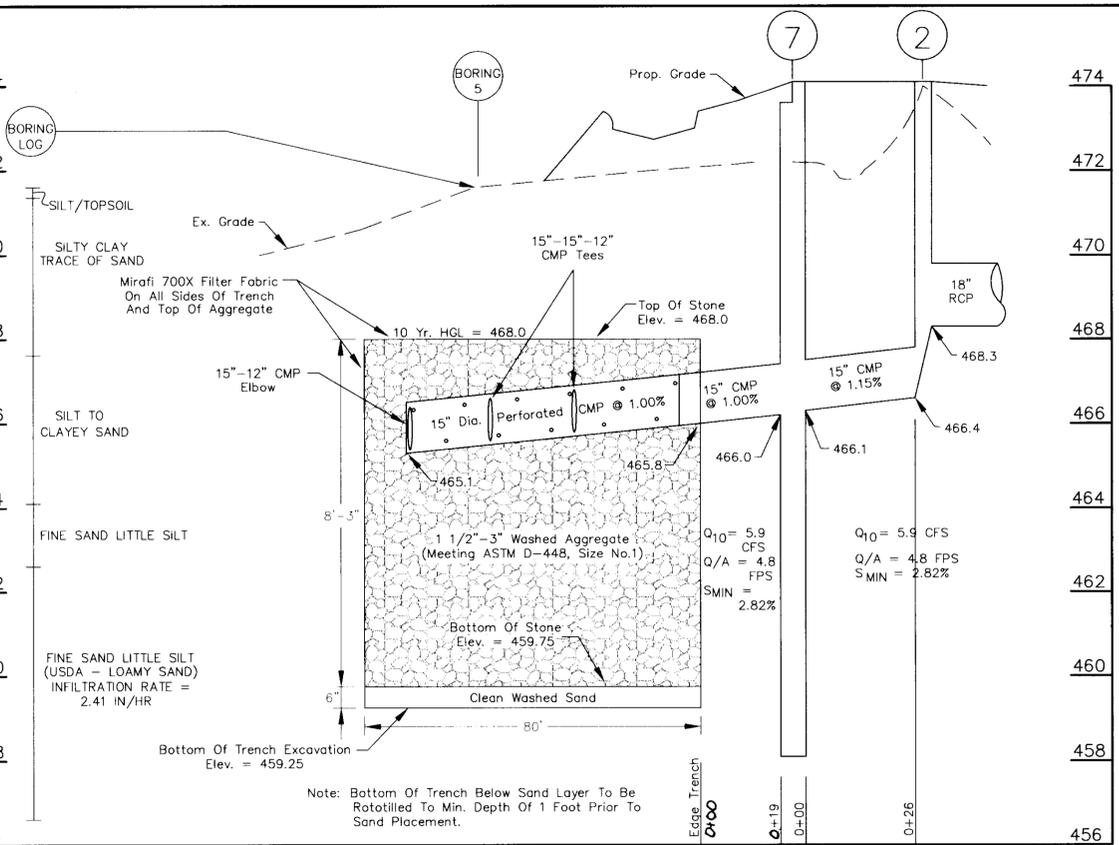
CALL "MISS UTILITY"
TELEPHONE 1-800-257-7777
FOR UTILITY LOCATIONS
AT LEAST 48 HOURS BEFORE
BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY



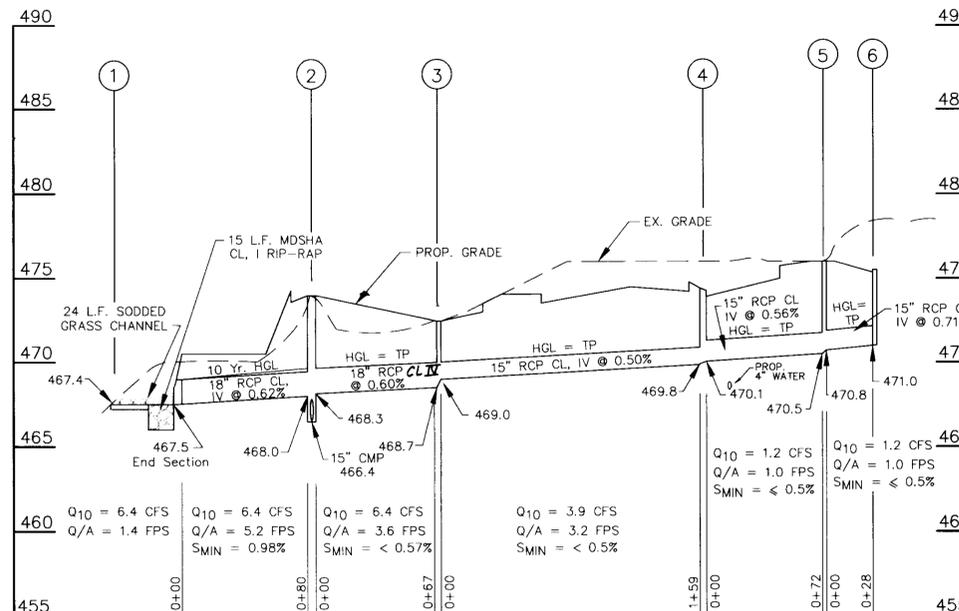
CROSS SECTION 'A-A' THROUGH INFILTRATION TRENCH SWM-1

Scale: Horiz. - 1" = 20'
Vert. - 1" = 2'



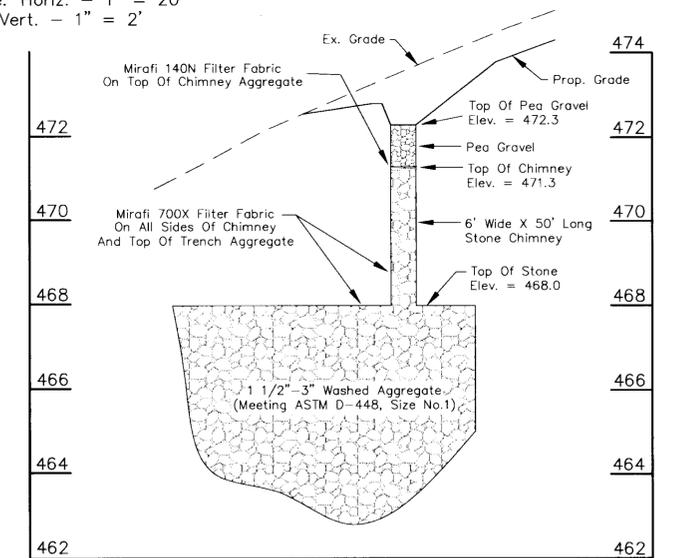
**PROFILE ALONG CENTERLINE OF 15" CMP FEEDER
PIPE TO INFILTRATION TRENCH (STR. SWM-1)**

Scale: Horiz. - 1" = 20'
Vert. - 1" = 2'



PROFILE

Scale: Horiz. - 1" = 50'
Vert. - 1" = 5'



**CROSS SECTION OF INFILTRATION TRENCH
AT STONE CHIMNEY**

Scale: Horiz. - 1" = 20'
Vert. - 1" = 2'

STORM DRAIN & SWM PROFILES, NOTES & DETAILS
Clarksville Medical Building
LOT A-2 PLAT 11307
FOSTER PROPERTY
H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascøck, P.A.
Engineers • Planners • Surveyors
Suite 120
9220 Wightman Road
Gaithersburg, Maryland
20879
(301) 670-0840
FAX (301) 948-0693

Designed DS	Drawn
Date 10-24-96	Scale AS-NOTED
Job No. 92-322	Sheet 4 of 9



NO.	TYPE & STANDARD	TOP ELEV.	INVERT	REMARKS
1	18" DIA. RCP FLARED END SECTION MSHA STD. NO. MD-368.01	469.29	467.50	USE CONCRETE FOOTER
2	48" DIA. PRECAST MANHOLE MSHA STD. NO. 384.01	474.10	15" CMP OUT 466.40 18" RCP OUT 468.00 18" RCP IN 468.30	CONCRETE BOTTOM TO BE SLOPED TOWARDS INVERT OF 15" CMP - SEE DETAIL SHEET C-4
3	GRATE INLET SINGLE WR MSHA STD. NO. MD-374.06	472.40	18" RCP OUT 468.70 15" RCP IN 469.00	
4	PRECAST A-10 CURB INLET HOWARD CO. DPW STD. NO. SD 4.41	474.10	15" RCP OUT 469.80 15" RCP IN 470.10	PROVIDE TRASH RACK ON THROAT - SEE DETAIL SHEET C-4
5	48" DIA. PRECAST MANHOLE MSHA STD. NO. 384.01	476.10	15" RCP OUT 470.50 15" RCP IN 470.80	
6	PRECAST A-10 CURB INLET HOWARD CO. DPW STD. NO. SD 4.41	475.40	15" RCP OUT 471.00	PROVIDE TRASH RACK ON THROAT - SEE DETAIL SHEET C-4
7	WATER QUALITY STRUCTURE STC 1800 PRECAST CONCRETE STORMCEPTOR	473.90	15" CMP OUT 466.00 15" CMP IN 466.10	SEE DETAIL THIS SHEET
SWM1	STORMWATER MANAGEMENT INFILTRATION TRENCH	TOP STONE = 468.00	BOTTOM STONE = 459.75	SEE DETAIL SHEET C-4

NOTES: MSHA REFERS TO STANDARD DETAILS OF THE STATE HIGHWAY ADMINISTRATION.

QUANTITY	DESCRIPTION	MATERIAL	REMARKS
2	TEE	15"-12" CMP	SEE DETAILS SWM-1 SHEET C-4
1	ELBOW	15"-12" CMP	SEE DETAILS SWM-1 SHEET C-4
3	END PLATES	16 GAGE STEEL PLATE	WELD END PLATES TO END OF EACH RUN OF PERFORATED PIPE IN SWM-1
1	OBSERVATION WELL FOOT PLATE	30" X 30" X 1/2" STEEL PLATE WELDED TO TWO 6" X 6" X 1/2" STEEL SIDE BRACES	SEE INFILTRATION TRENCH DETAIL SHEET C-4
1	CLEANEST LAMP HOLE FRAME & COVER (11" DIA.)	IRON	HOWARD CO. DPW STD. S3.21
2	TRASH RACKS FOR STRUCTURES Nos. 4&6	#3 SMOOTH STEEL BAR & 2 1/2" X 2" X 1/4" STEEL ANGLE	SEE SEPARATE DETAILS FOR DIMENSIONS OF TRASH RACK & ANCHOR DETAILS; COAT WITH ZRC COLD GALVANIZING COMPOUND AFTER WELDING
1	CLOSURE COUPLING	6" PVC	OBSERVATION WELL AT JUNCTION OF PERFORATED AND NON-PERFORATED PIPE

DIAMETER	TYPE	LENGTH	REMARKS
12"	CMP, 16 GAGE PERFORATED	180'	SEE SWM 1 DETAILS SHEET C-4 MIN. 30 - 3/8" DIA. ROUND HOLES PER SQUARE FOOT PIPE SURFACE AREA SEE PROFILES - SHEET C-4
15"	CMP, 16 GAGE PERFORATED	65'	SEE SWM 1 DETAILS SHEET C-4 MIN. 30 - 3/8" DIA. ROUND HOLES PER SQUARE FOOT PIPE SURFACE AREA SEE PROFILES - SHEET C-4
15"	CMP, 16 GAGE	50'	SEE SWM 1 DETAILS SHEET C-4
15"	RCP, CLASS IV	259'	SEE PROFILES - SHEET C-4
18"	RCP, CLASS IV	147'	SEE PROFILES SHEET C-4
6"	PVC, SCH. 40	5'	OBSERVATION WELL SEE DETAIL SHEET C-4
6"	PVC, SCH. 40 PERFORATED	8'	OBSERVATION WELL SEE DETAIL SHEET C-4

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
Joseph M. Rutter, Jr. 12-17-96 DATE
 HOWARD COUNTY HEALTH DEPARTMENT:
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING:
Charles Damers 11/19/96 DATE
 CHARLES DAMERS
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Richard Blood 12/20/96 DATE
 RICHARD BLOOD
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
Joseph Rutter, Jr. 12/24/96 DATE
 JOSEPH RUTTER, JR.
 DIRECTOR

Concrete Stormceptor® Order Request Form*

Contractor Information

Name: KELLER BROS. INC.
 Address: 100 LEXINGTON DRIVE
 City: SILVER SPRING
 State: MARYLAND
 Zip Code: 20901
 Contact: DENNIS KELLER
 Phone: 301-593-5555
 Fax: 301-593-9057

Owner Information

Name: SDMC ASSOCIATES C/O DON JOHNSON
 Phone: 301-963-0509
 Fax: 301-963-0509

Stormceptor® Model

900 3600
 1200 4800
 1800 6000
 2400 7200
 Fiberglass Concrete

Insert Size

22"
 32"
 44"
 Custom

Manhole/Structure Number

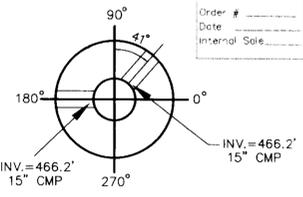
Top Elevation (ft) 473.9
 Inlet Pipe Invert (ft) 466.3
 Outlet Pipe Invert (ft) 466.2
 Pipe Type RCP
 Pipe Inside Diameter (in) [ID] 15
 Pipe Outside Diameter (in) [OD] 15

Project Name FOSTER PROPERTY
 Approximate time frame until required delivery (weeks) _____
 Exact Delivery Address: Street 12208 CLARKSVILLE PIKE
 City CLARKSVILLE State MD Zip Code 21029
 Designer Company MACRIS, HENDRICKS & GLASCOCK, P.A.
 Designer Contact SCOTT ROSER Phone 301-670-0840 Fax 301-948-0693

Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426
 Attn: Dave Brinser / Ed O'Malley (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

* TO BE INCLUDED ON SWM PLANS BY DESIGNER



OPERATION AND MAINTENANCE SCHEDULE FOR INFILTRATION TRENCHES

- The monitoring wells and structures shall be inspected on a quarterly basis and after every large storm event.
- Water levels and sediment build up in the monitoring wells shall be recorded over a period of several days to insure trench drainage.
- A log book shall be maintained to determine the rate at which the facility dewaters.
- When the facility becomes clogged so that it does not drain down within the 72 hour time period, corrective action shall be taken.
- The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.
- Once the performance characteristics of the infiltration facility have been verified, the monitoring schedule can be reduced to annual basis unless the performance data indicates that a more frequent schedule is required.

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY DEVICE

- Stormceptor water quality structures will require periodic inspection and cleaning to maintain operation and function. Owners will have the Stormceptor unit inspected yearly or as required by Howard County, utilizing the Stormceptor Inspection/Monitoring Form. Inspections can be done by using a clear Plexiglas tube (sludge judge) to extract a water column sample. When sediment depths exceed the specified level (Table 9 of Technical Manual) then cleaning of the unit is required.
- Stormceptor water quality structures must be checked and cleaned immediately after petroleum spills, contact appropriate regulatory agencies.
- Maintenance of Stormceptor units should be done by a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons and other materials in unit. The proper cleaning and disposal of the removed materials and liquid must be followed.
- Inlet and outlet pipes must be checked for any obstructions and if any obstructions are found they must be removed. Structural parts of the Stormceptor will be repaired as needed.
- Owner shall retain and make Stormceptor Inspection/Monitoring Forms available to Howard County officials upon their request.

CALL "MISS UTILITY"
 TELEPHONE 1-800-257-7777
 FOR UTILITY LOCATIONS
 AT LEAST 48 HOURS BEFORE
 BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY
	11-1-96	ISSUED FOR FINAL APPROVAL	

CONSTRUCTION SPECIFICATIONS FOR INFILTRATION STRUCTURES

Timing

An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

Trench Preparation

Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedure. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment. The trench bottom shall be scarified prior to the placement of aggregate. All work within the trench area shall be performed with the lightest equipment feasible. Care shall be taken to avoid compaction of the subgrade during construction.

Fabric Laydown

The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity and to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.

Stone Aggregate Placement and Compaction

The stone aggregate should be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping, fabric clogging, and settlement problems. Washed aggregate must meet ASTM D-448, size No. 1.

Overlapping and Covering

Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

Contamination

Care shall be exercised to prevent natural or fill soils from intermixing with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

Voids Behind Fabric

Voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

Unstable Excavation Sides

Vertically excavated walls may be difficult to maintain in areas where the soil moisture is high or where soft cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoidal rather than rectangular cross sections may result.

Traffic Control

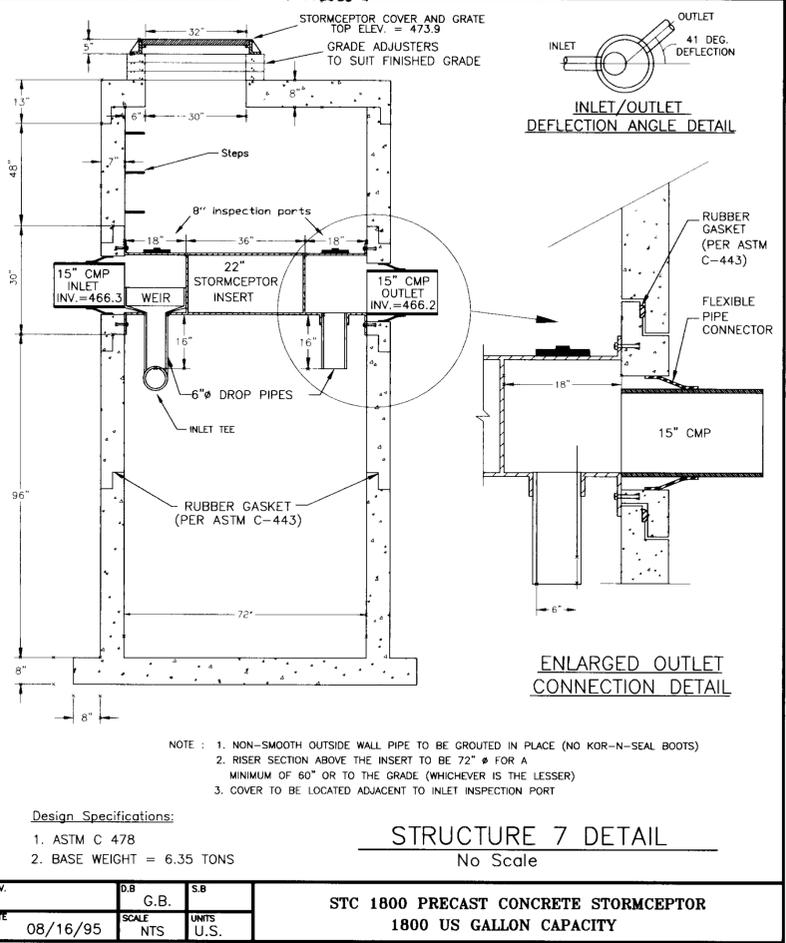
Heavy equipment and traffic shall be restricted from traveling over the infiltration areas to minimize compaction of the soil.

Observation Well

An observation well shall be located in the center of each infiltration trench. It shall be constructed flush with the ground surface elevation at the trench. The top of the well shall be capped and locked to discourage vandalism and tampering. The depth of the well at the time of installation will be clearly marked on the well cap.

STORM DRAIN NOTES

- STORM DRAIN MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV AND THE HOWARD COUNTY STANDARD SPECIFICATIONS & DETAILS FOR CONSTRUCTION.
- NOTIFY THE FOLLOWING, 48 HOURS PRIOR TO BEGINNING ANY SITE DISTURBANCE:
 "MISS UTILITY" 1-800-257-7777
 BALTIMORE GAS & ELECTRIC CO. 410-685-0123
 BELL ATLANTIC 410-224-9050
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCE IS LESS THAN SHOWN ON THIS PLAN CONTACT THIS OFFICE.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- WHERE ANY PART OF THE STORM DRAIN SYSTEM IS LOCATED IN A FILL SECTION, PROVIDE SELECT FILL MATERIAL COMPACTED TO 95% AASHTO T-99 DENSITY FROM APPROVED SUB-GRADE TO THE STRUCTURE BOTTOM SLAB AND/OR THE PIPE BEDDING.



NOTE: 1. NON-SMOOTH OUTSIDE WALL PIPE TO BE GROUTED IN PLACE (NO KOR-N-SEAL BOOTS)
 2. RISER SECTION ABOVE THE INSERT TO BE 22" Ø FOR A MINIMUM OF 60" OR TO THE GRADE (WHICHEVER IS THE LESSER)
 3. COVER TO BE LOCATED ADJACENT TO INLET INSPECTION PORT

Design Specifications:
 1. ASTM C 478
 2. BASE WEIGHT = 6.35 TONS

STRUCTURE 7 DETAIL
 NO SCALE

REV. _____ DB _____ SB _____
 DATE 08/16/95 SCALE _____ UNITS _____
 STC 1800 PRECAST CONCRETE STORMCEPTOR
 1800 US GALLON CAPACITY

STRUCTURE 7 DETAIL
 NO SCALE

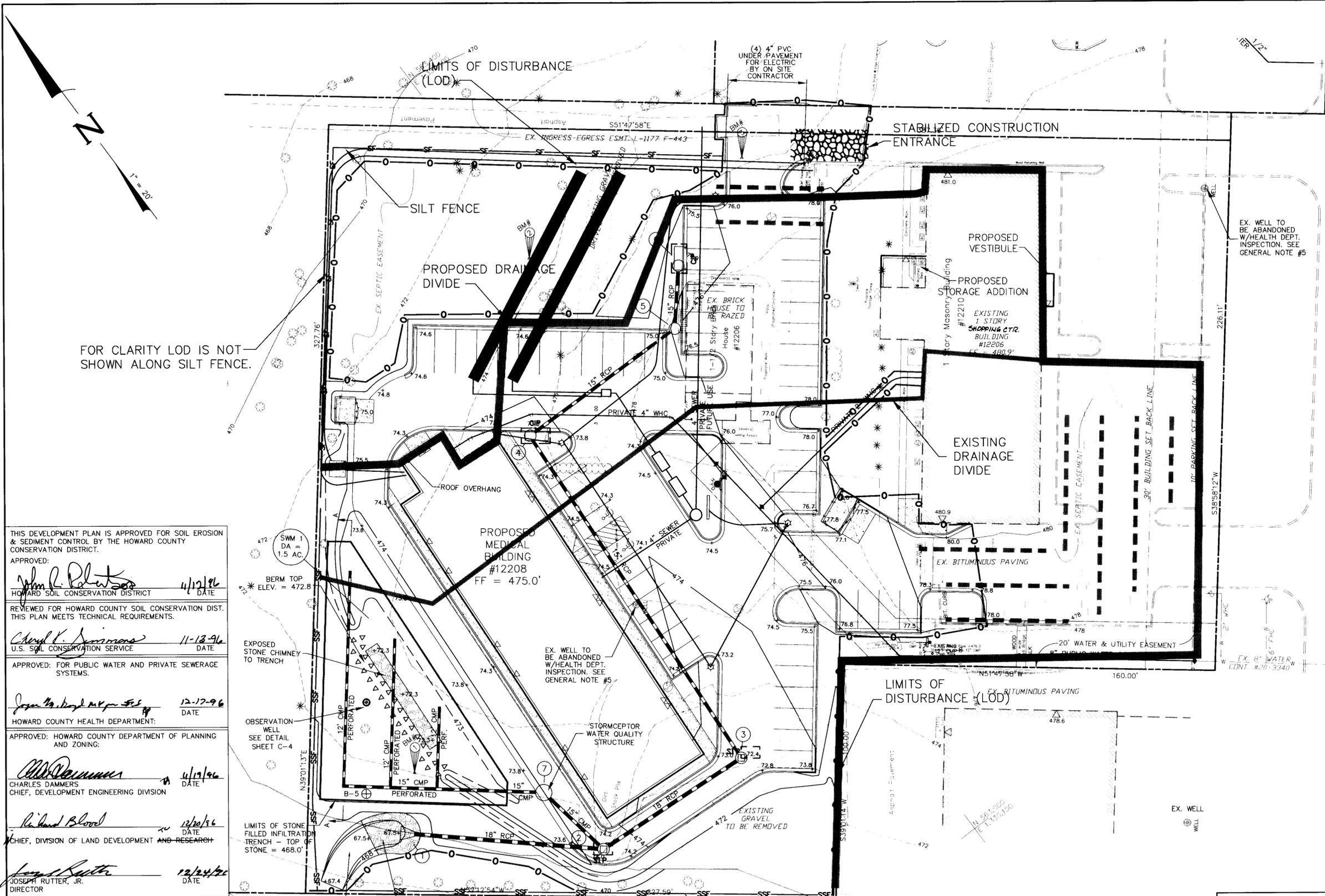
NOTE: STORMCEPTORS ARE AVAILABLE LOCALLY FROM
 HYDRO CONDUIT/VIRGINIA PRECAST (1-800-999-2278)

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
James William Macris
 JAMES WILLIAM MACRIS
 ENGINEER
 LICENSE NO. 10779

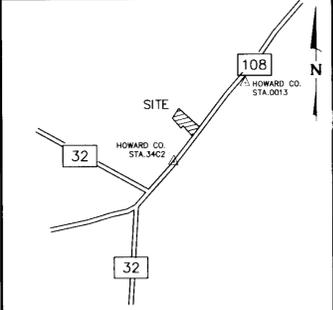
STORM DRAIN & SWM NOTES, DETAILS & SCHEDULES
 Clarksville Medical Building
 LOT A-2 PLAT 11307
FOSTER PROPERTY
 H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A.
 Engineers • Planners • Surveyors
 Suite 120
 9220 Wightman Road
 Gaithersburg, Maryland
 20879
 (301) 670-0840
 FAX (301) 948-0693

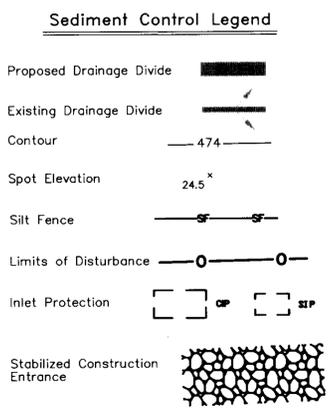
Designed DS
 Date 10-24-96
 Job No. 92-322
 Scale AS-NOTED
 Sheet 5 of 9



FOR CLARITY LOD IS NOT SHOWN ALONG SILT FENCE.



VICINITY MAP
SCALE 1" = 2,000'



Certifications

By The Developer:
 "I/We certify that all development and/or construction will be done according 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. I authorize periodic on-site inspections by the Howard Soil Conservation District."

Signature of Developer: *DAVID STERN* Date: 10/20/96

Printed Name: **DAVID STERN** SDMC ASSO. PRHP.

By The Engineer:
 "I certify that this plan for construction, of 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. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer: *James C. Glascock* Date: 10/29/96

Printed Name: **James C. Glascock**

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

APPROVED: *John R. Pollock* 4/12/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DIST. THIS PLAN MEETS TECHNICAL REQUIREMENTS.
Cheryl K. Jamerson 11-18-96
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
Joseph M. Long 12-17-96
 HOWARD COUNTY HEALTH DEPARTMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Charles Dammers 4/13/96
 CHARLES DAMMERS DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blood 12/22/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Joseph Rutter, Jr. 12/24/96
 JOSEPH RUTTER, JR. DATE
 DIRECTOR

24 L.F. SODDED CHANNEL
 $Q_{10} = 6.4$ CFS
 $V = 1.4$ FPS
 BOT. WD. = 10'
 SIDE SLOPES = 2 TO 1

15 L.F. MSHA CLASS 1 RIP-RAP
 $Q_{10} = 6.4$ CFS BOT. WD. = 10'
 $V = 1.4$ FPS SIDE SLOPES = 2 TO 1

CALL "MISS UTILITY"
 TELEPHONE 1-800-257-7777
 FOR UTILITY LOCATIONS
 AT LEAST 48 HOURS BEFORE
 BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY

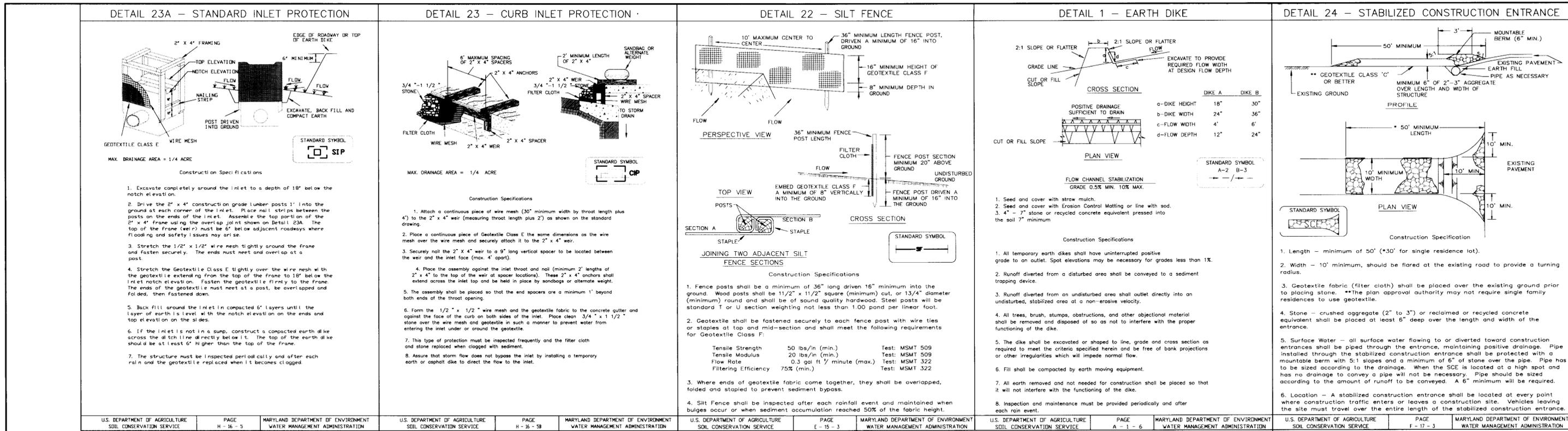


SOIL EROSION, SEDIMENT CONTROL PLAN
 Clarksville Medical Building
 LOT A-2 PLAT 11307
FOSTER PROPERTY
 H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A.
 Engineers • Planners • Surveyors
 Suite 120
 9220 Wightman Road
 Gaithersburg, Maryland 20879
 (301) 670-0840
 FAX (301) 948-0693

Designed MDP
 Date 10-24-96
 Job No. 92-322

Drawn MDP
 Scale 1" = 20'
 Sheet 6 of 9



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 16 - 5	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 16 - 5B	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE A - 1 - 6	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F - 17 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
---	--------------------	---	---	---------------------	---	---	--------------------	---	---	-------------------	---	---	--------------------	---

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- The permittee shall notify the Howard County Office of Inspections and Permits, at 410-992-2437, 48 hours prior to commencing any land disturbing activity.
- All erosion control measures are to be constructed and maintained in accordance with applicable published standards and specifications and the most current Maryland Standards and Specifications for Soil Erosion & Sediment Control.
- The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence.
- The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
- The permittee shall inspect daily and maintain continuously in effective operating condition all erosion and sediment control measures until permission for their removal has been received from the Howard County Sediment Control Inspector.
- All sediment basins, trap embankments, swales, perimeter dikes, and permanent slopes steeper or equal to 3:1 shall be stabilized with sod, seed and anchored straw mulch, or other approved stabilization measures, within seven (7) calendar days of establishment. All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization. Restabilization or over seeding will be required, if necessary.
- The permittee shall apply sod, seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas within:
 - Seven (7) calendar days after for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1.
 - Fourteen (14) calendar days as to all other disturbed or graded areas on the project site.
- 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".
- Site Analysis:

Total Site Area = 2.54 AC.
Area of Disturbance = 1.50 AC.
Proposed impervious area = 0.90 AC.
Area to vegetatively stabilized = 0.60 AC.
Total Excavation = 2,560 S.Y.
Total Fill = 1,275 S.Y.
Off site disposal area = 1,285 S.Y.
- All sediment control structures are to remain in place and are to be
- Disturbance for utility placement or reaper must be stabilized the same day.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

TEMPORARY SEEDING NOTES

- SCOPE: PLANTING SHORT-TERM VEGETATION TO STABILIZED, CLEARED OR GRADED AREAS SUBJECT TO EROSION FOR A PERIOD OF 14 DAYS OR MORE.
- STANDARDS: TEMPORARY SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE, AND STATE SOIL CONSERVATION COMMITTEE.
- SEDIMENT AND EROSION CONTROL: ALL PERIMETER CONTROLS MUST BE STABILIZED IN 7 DAYS. ALL INTERIOR CONTROLS MUST BE STABILIZED IN 14 DAYS.

PERMANENT SEEDING & SOD NOTES

- SCOPE: PLANTING PERMANENT, LONG-LIVED VEGETATIVE COVER ON GRADED OR CLEARED AREAS.
- STANDARDS: PERMANENT SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE, AND STATE SOIL CONSERVATION COMMITTEE.

- SPECIFICATIONS**
- SITE PREPARATION
 - PRIOR TO SEEDING INSTALL ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES.
 - FINE GRADING REQUIRED FOR PERMANENT SEEDING.
 - SOIL AMENDMENTS
 - FERTILIZER SHALL BE APPLIED AT THE RATE OF 600 LBS/ACRE USING 10-10-10 OR EQUIVALENT.
 - ACID SOILS SHALL BE LIMED.
 - SEEDBED PREPARATION
 - SOIL SHALL BE LOOSENED TO A DEPTH OF 3 INCHES BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER ON A FIRM, MOIST SEEDBED). MAXIMUM SEEDING DEPTH SHOULD BE 1/4 INCH ON CLAYEY SOILS AND 1/2 INCH ON SANDY SOILS, WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION. NOTE: IF HYDROSEEDING IS USED AND THE SEED AND FERTILIZER IS MIXED, THEY WILL BE MIXED ON SITE AND THE SEEDING SHALL BE IMMEDIATE WITHOUT INTERRUPTION.

PERMANENT STABILIZATION WITH SOD

- ALL SPECIFICATIONS, SITE PREPARATION, INSTALLATION AND MAINTENANCE OF SOD FOR PERMANENT, LONG-LIVED VEGETATIVE COVER SHALL CONFORM TO SECTION 54.01 OF "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED JOINTLY BY WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE, AND THE STATE SOIL CONSERVATION COMMITTEE.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
---	--------------------	---

SEQUENCE OF CONSTRUCTION

- CONSTRUCT THE SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN. MAINTAIN DEVICES FOR THE DURATION OF CONSTRUCTION.
- DEMOLISH EXISTING HOUSE, REMOVE EX. PAVING AND CLEAR & GRUB SITE.
- BEGIN ROUGH GRADING.
- CONSTRUCT STORMDRAIN, SEPTIC SYSTEM WATER AND OTHER UTILITIES.
- BEGIN BUILDING CONSTRUCTION.
- BEGIN CONSTRUCTION OF THE STORMWATER MANAGEMENT INFILTRATION STRUCTURE.
- BEGIN CURB, SIDEWALK AND PAVING CONSTRUCTION.
- PLACE TOPSOIL AND SOD OR SEED, IN ACCORDANCE WITH THE SEEDING NOTES, THE AREAS THAT ARE TO BE GRASS. INSTALL LANDSCAPING.
- UPON COMPLETION OF ALL CONSTRUCTION AND SITE STABILIZATION, AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, ALL SEDIMENT CONTROL STRUCTURES AND DEVICES SHALL BE REMOVED.

APPROVED: *John R. Robertson* 11/24/96
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DIST. THIS PLAN MEETS TECHNICAL REQUIREMENTS.
Chief K. Simmons 11-13-96
U.S. SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
John M. Boyd 11-17-96
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Charles Dammers 11/24/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blood 12/24/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph Rutter, Jr. 12/24/96
DIRECTOR

CALL "MISS UTILITY"
TELEPHONE 1-800-257-7777
FOR UTILITY LOCATIONS
AT LEAST 48 HOURS BEFORE
BEGINNING CONSTRUCTION

NO.	DATE	ISSUED FOR FINAL APPROVAL	DESCRIPTION	BY
	11-1-96			

SOIL EROSION, SEDIMENT CONTROL DETAILS
Clarksville Medical Building
LOT A-2 PLAT 11307
FOSTER PROPERTY
H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A.
Engineers • Planners • Surveyors

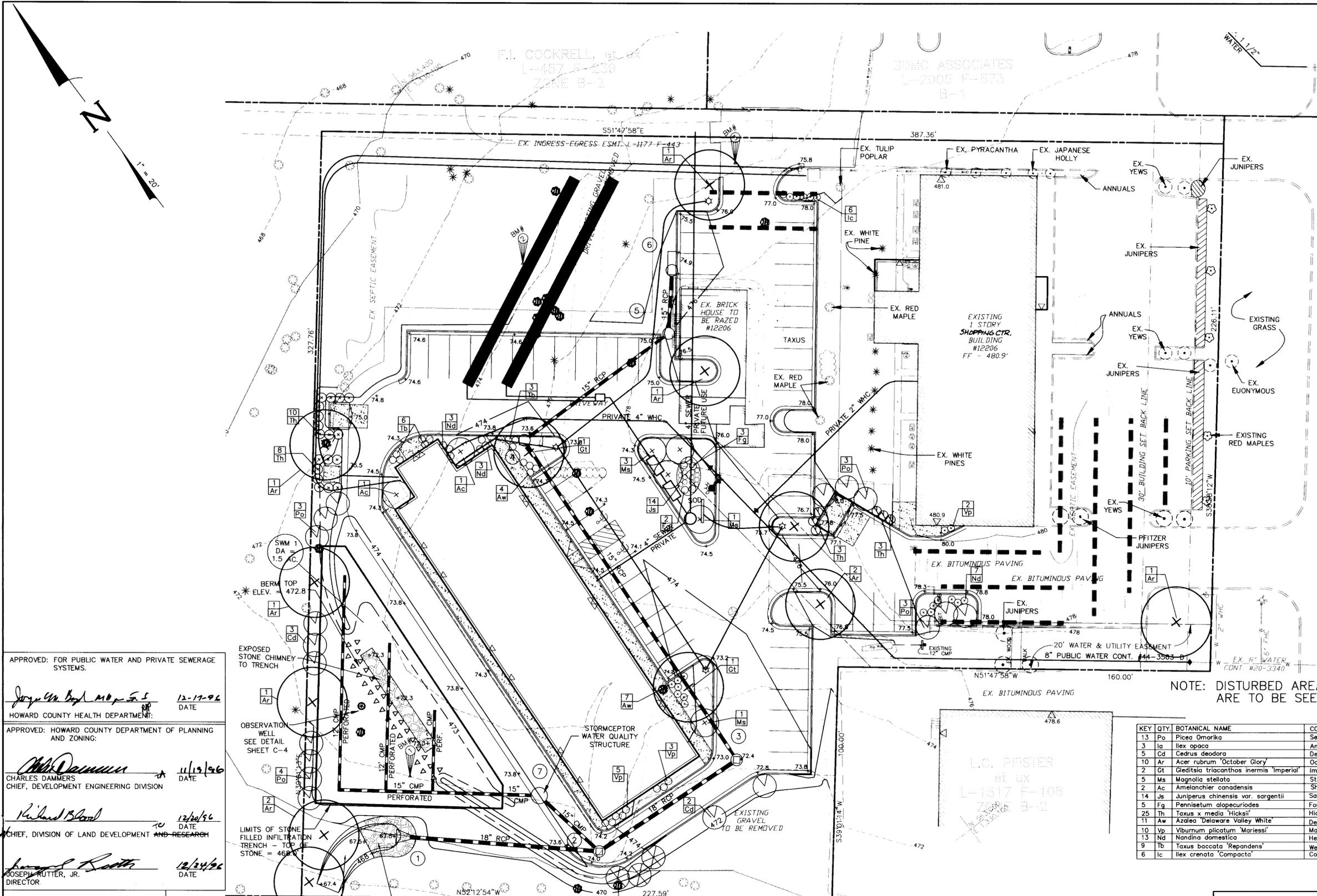
301-670-0840
FAX 301-948-0693

9220 Wightman Road
Gaithersburg, Maryland
20879

Designed MDP
Date 10-24-96
Job No. 92-322

Drawn MDP
Scale NONE
Sheet 2 of 2

SDP-96-76



NOTE: EXISTING BUILDING AND PARKING LOT HAS EXISTING LANDSCAPING.

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	51
Number of Trees Required	3
Number of Trees Provided	3
Shade Trees	
Other Trees (2:1 substitution)	

CLARKSVILLE PIKE - MD. STATE ROUTE #108

KEY

[Symbol]	SOD AREAS
[Symbol]	EXISTING TREE TO REMAIN
[Symbol]	EXISTING TREE TO BE REMOVED
[Symbol]	PROPOSED TREE
[Symbol]	PROPOSED SHRUB
[Symbol]	EX. SHRUB TO REMAIN

NOTE: DISTURBED AREAS, NOT DESIGNATED FOR SOD, ARE TO BE SEEDED PER PLANTING SPECIFICATION.

LANDSCAPE PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL.	HGT.	SPD.	MISC.
13	Po	Picea Omorika	Serbian Spruce		6-8'		B+B
3	la	Ilex opaca	American Holly		5-6'		B+B
5	Cd	Cedrus deodora	Deodar Cedar		6-8'		B+B
10	Ar	Acer rubrum 'October Glory'	October Glory Maple	2 1/2-3'			B+B
2	Gt	Gleditsia triacanthos inermis 'Imperial'	Imperial Thornless Honeylocust	2 1/2-3'			B+B
5	Ms	Magnolia stellata	Star Magnolia		6-8'		B+B
2	Ac	Amelanchier canadensis	Shadblow		8-10'		B+B
14	Js	Juniperus chinensis var. sargentii	Sargents Juniper			18-24"	Cont.
5	Fg	Pennisetum alopecuroides	Fountain Grass		3 gal.		Cont. 3' O.C.
25	Th	Taxus x media 'Hicksii'	Hicks Yew		3-4'		B+B 4' O.C.
11	Aw	Azalea 'Delaware Valley White'	Delaware Valley White Azalea		18-24"		Cont. 30" O.C.
10	Vp	Viburnum plicatum 'Mariesii'	Marie's Double file Viburnum		2 1/2-3'		B+B 3' O.C.
13	Nd	Nandina domestica	Heavenly Bamboo		2-2 1/2'		Cont. 30" O.C.
9	Tb	Taxus baccata 'Repandens'	Weeping Yew		18-24"		B+B 3' O.C.
6	Ic	Ilex crenata 'Compacta'	Compact Japanese Holly		2 1/2-3'		B+B 3' O.C.

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
 [Signature] 12-17-96 DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 [Signature] 11/19/96 DATE
 CHARLES DAMMERS
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 12/20/96 DATE
 RICHARD BLOOD
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

[Signature] 12/24/96 DATE
 JOSEPH RUTTER, JR.
 DIRECTOR

24 L.F. SODDED CHANNEL
 Q₁₀ = 6.4 CFS
 V = 1.4 FPS
 BOT. WD. = 10'
 SIDE SLOPES = 2 TO 1

15 L.F. MSHA CLASS 1 RIP-RAP
 Q₁₀ = 6.4 CFS BOT. WD. = 10'
 V = 1.4 FPS SIDE SLOPES = 2 TO 1

CALL "MISS UTILITY"
 TELEPHONE 1-800-257-7777
 FOR UTILITY LOCATIONS
 AT LEAST 48 HOURS BEFORE
 BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY
	11-1-96	ISSUED FOR FINAL APPROVAL	



PLANTING PLAN
 Clarksville Medical Building
 LOT A-2 PLAT 11307
FOSTER PROPERTY
 H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A.
 Engineers • Planners • Surveyors
 Suite 120
 9220 Wightman Road
 Gaithersburg, Maryland
 20879
 (301) 670-0840
 FAX (301) 948-0693

Designed VSB	Drawn
Date	Scale
10-18-96	1" = 20'
Job No. 92-322	Sheet
	8 of 9

SDP-96-76

I:\DATA\SDSK\HCOU\92322\DMG\LS_00_01 Thu Oct 24 11:02:47 1996

PLANTING SPECIFICATIONS

Description:

Planting shall consist of furnishing and installing plant material as shown on the plans. Care and replacement necessary to complete the work as specified shall be provided.

The Landscape Plan is to be used for planting purposes only.

Materials:

A. Plant Material

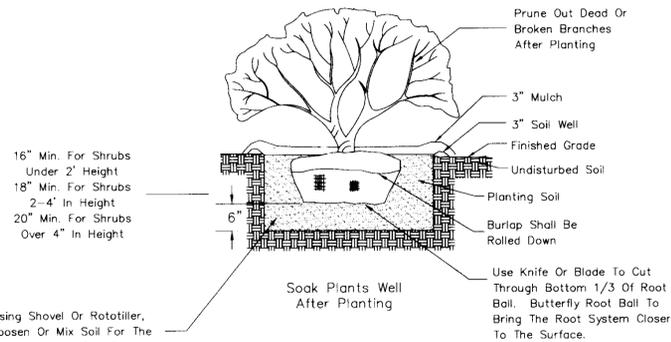
- The installer shall make arrangements to insure a supply of the required material. This shall be done five (5) months prior to planting time to guarantee the supply.
- All plant material shall conform to the current issues of the American Standard for nursery stock published by the American Association of Nurserymen, except where otherwise noted.
- Plant materials must be selected from nurseries that have been inspected by appropriate state and federal agencies.
- All plant material shall be obtained from mid Atlantic area sources, and approved by the owner or duly appointed representative prior to planting. When specified plants are not available, substitutions may be made as directed by Owner, or Montgomery County in case of afforestation stock.
- Plant installation shall comply with the standards in the latest edition of "Landscape Specifications Guidelines" as published by the Landscape Contractors Association.
- Plant material shall be provided with plant identification tags listing the latin and common names. The tags shall not be removed until after final certification by the landscape architect.

B. Planting

- Planting will be installed no later than (1) year after completion of the construction project.
- Root Stock of the plant material shall be kept moist during transportation from the source to the job site and until planted. Plant materials left unplanted for more than 24 hours shall be protected from direct sun and weather and kept moist.
- Plants shall be installed only between the months of January and May or between September and December when ground is not frozen. Plants shall be guaranteed for a one-year period from the time of installation. Any replacements must be installed as above.
- All areas not otherwise indicated are to be seeded or sodded as per plan (see Sediment and Erosion Control Plans) project specifications to be in accordance with the Maryland Standards and Specification for Soil Erosion and Sediment Control.
- The installer shall water all plants promptly following installation adequately to insure plant growth.
- Watering of the plant material shall take place at the end of each fifth day through September 1, if the soil is not moist.
- Contractor shall be responsible for making himself familiar with all the existing on-site conditions prior to submission of bid. The contractor is responsible for the location of all underground utilities, pipes, and structures. Contractor shall take sole responsibility for any cost incurred due to damage of said utilities. Call Miss Utility, 48 hours prior to digging (1-800-257-7777).
- All plants shall be placed so as not to obstruct drainage.
- All newly planted trees shall be pruned as necessary to remove dead branches or to create uniform shape.
- Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Owner prior to installation of plant material.
- All trees are to be located a minimum distance of 5' from all utility boxes, 5' from a storm drain inlet or manhole, 10' from a fire hydrant, 15' from any public street light, and 5' from any driveway aprons.
- All mulch to be shredded hardwood bark to a depth of one inch in afforestation areas and three inches in landscape areas.
- Contractor to confirm quantity of plant materials by plan count. Notify landscape architect of any discrepancy prior to planting.
- Tree protection devices used in a particular area to be coordinated with erosion and sediment control devices as indicated on the approved ESC plan.

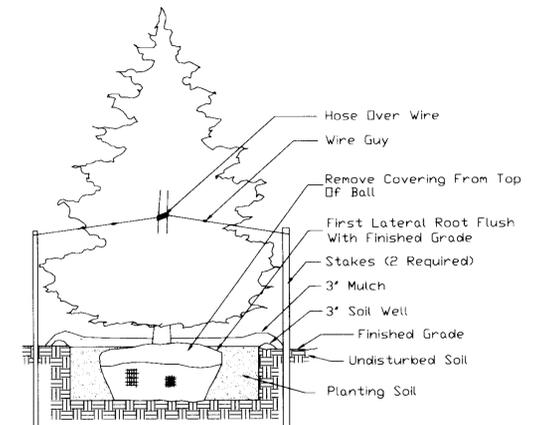
C. Clean Up:

- Final Clean up shall be the responsibility of the installer and consist of removing all trash and materials incidental to the project and properly disposing of them off site. In addition the construction procedure shall no damage any areas of existing plants which are to remain.
- There shall be no open burning on-site.
- The contractor shall replace or repair at no cost to the owner, all site areas or surrounding items damaged by work of his contracts.
- During landscape work, store materials and equipment where directed. Keep pavement clean and work areas in an orderly condition.



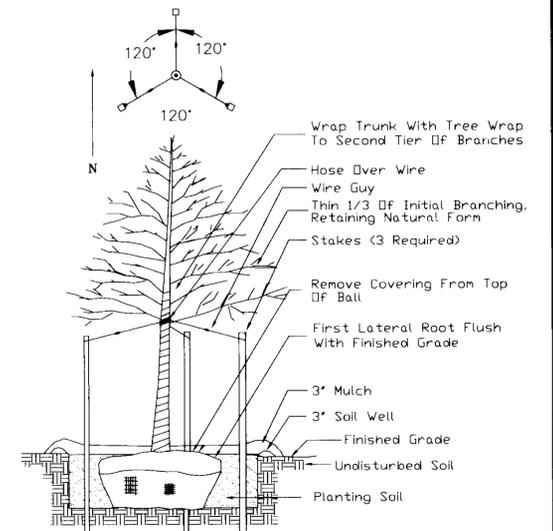
Planting Detail
Shrubs

Not To Scale



Planting Detail
Evergreen Tree

Not To Scale



Planting Detail
Deciduous Tree

Not To Scale

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.

Joyce M. Hoffmann 12-17-96
DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Charles Dammers 11/19/96
DATE
CHARLES DAMMERS
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Richard Blood 12/20/96
DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Joseph Rutter, Jr. 12/29/96
DATE
JOSEPH RUTTER, JR.
DIRECTOR

CALL "MISS UTILITY"
TELEPHONE 1-800-257-7777
FOR UTILITY LOCATIONS
AT LEAST 48 HOURS BEFORE
BEGINNING CONSTRUCTION

NO.	DATE	DESCRIPTION	BY



PLANTING DETAILS & NOTES
Clarksville Medical Building
LOT A-2 PLAT 11307
FOSTER PROPERTY
H.C. TAX MAP #34 ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Macris, Hendricks & Glascock, P.A. Engineers • Planners • Surveyors Suite 120 9220 Wightman Road Gaithersburg, Maryland 20879 (301) 670-0840 FAX (301) 948-0693	Designed VSB	Drawn
	Date 10-24-96	Scale NONE
	Job No. 92-322	Sheet 2 of 2

SDP-96-76

I:\DATA\NS\KRD\198322\DWG\15_00_02.TW DCH 24 11:06:57 1996