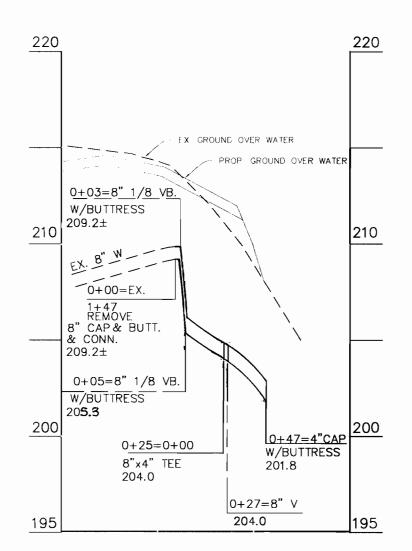


## WATER & SEWER PROFILE FOR LOTS 32-34



WATER MAIN PROFILE SCALE: H:1" = 50'V: 1" = 5'

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
DEVELOPER 2/8/81 DATE
BY THE ENGINEER:
"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
ENGINEER - DONALD A. MASON, P.E. # 21443 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD
SOIL CONSERVATION DISTRICT.
Jim Muys 3/6/01
ATURAL RESOURCES CONSERVATION SERVICES

#### CORNERSTONE HOLDINGS, L.L.C. 9691 NORFOLK AVENUE

410-792-2565

LAUREL, MARYLAND 20723

## OWNER/DEVELOPER

## WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3936-D

NORTH LAUREL PARK, BLOCK "J", LOTS 32 - 34

th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

# SEDIMENT CONTROL NOTES

- THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT, "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORAR' STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL 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 SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

TE /	INALYSIS:		
	TOTAL AREA OF SITE (THIS SUBMISSION)	13 ACF	RES
	AREA DISTURBED	13 ACF	RES
	AREA TO BE ROOFED OR PAVED	OACF	RES
	AREA TO BE VEGETATIVELY STABILIZED	13 ACF	RES
	TOTAL CUT	0 cy	
	TOTAL FILL	CY	
	OFFSITE WASTE/BORROW AREA LOCATION	N/A	

- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED. IF DEEMED NECESSARY BY THE
- 10. 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
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY,

#### PERMANENT SEEDBED PREPARATIONS

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER (0.186 (1900 SC 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 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) 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 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

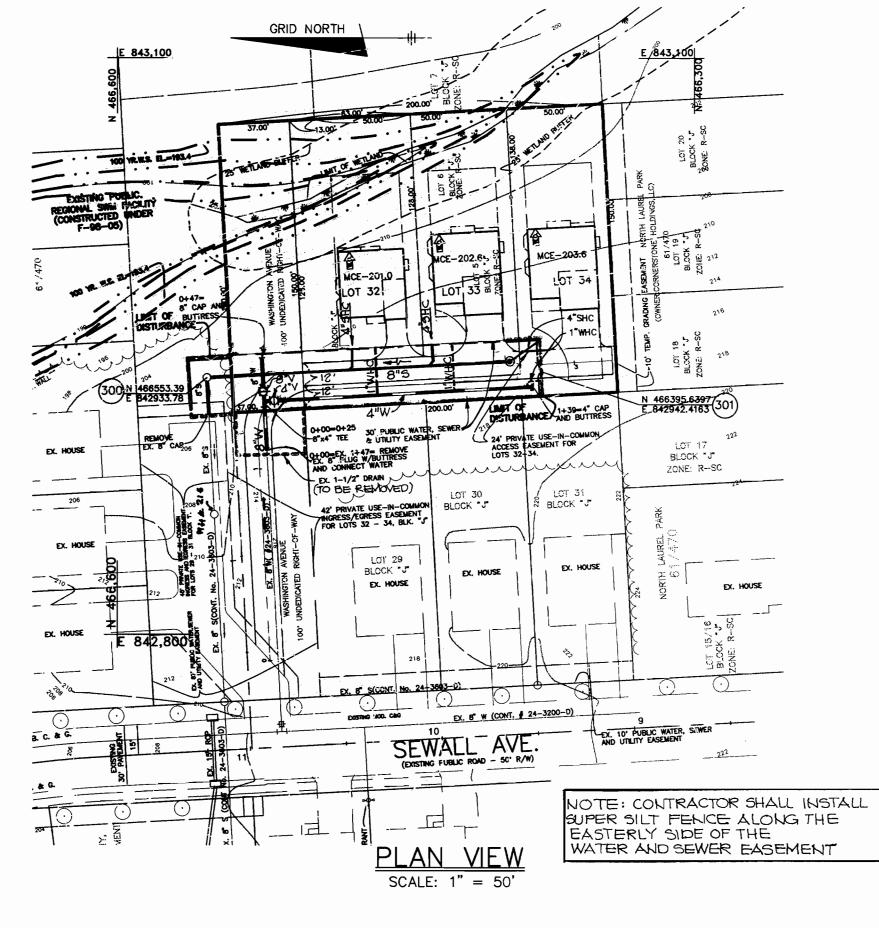
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND

#### SEQUENCE OF CONSTRUCTION

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION 1.) OBTAIN GRADING PERMIT.

DAY 2-8 2.) INSTALL SEDIMENT CONTROLS DEVICES. DAY 3-5 3.) INSTALL WATER AND SEWER LINES.

DAY 6-7 4.) STABILIZE DITURBED AREA IN ACCORDANCE WITH PERMANENT SEEDBED NOTES. DAY 8 5.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED

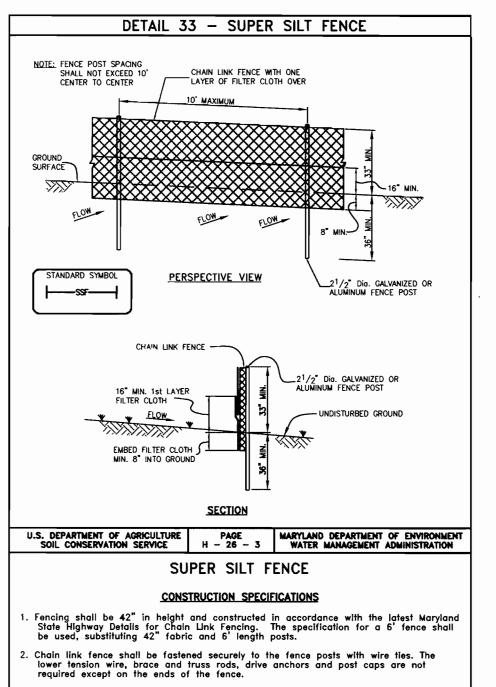


MINIMUM SEWER SERVICE					
LOT	BLOCK	EL. SHC	MINIMUM		
NUMBER	NUMBER	AT PUE	CELLAR EL.		
32	J	197.51	201.00		
33	J	198.89	202.6		
34	J	199.87	203.6		

QUANTITIES					
QUANTITIES AS-BUILT					
ITEM	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
8" WATER 4" WATER	47 L.F. 139 L.F.				
8"x4" TEE	1 EA.				
4" VALVES	1 EA.				
8" VALVES	1 EA.				
1" WHC 8" SEWER (PVC)	66 L.F. 177 L.F.				
MANHOLES	2 EA.				
4" SHC	40 L.F.				
-				-	
		,			
	<u> </u>			<del>-</del>	
NAME OF LITTLITY CONTRACTOR					
NAME OF UTLI	NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRA	SURVEY AND DRAFTING AS-BUILT DATE:				

## BENCH MARK DATA HOWARD COUNTY MON. # 1741003 CONC. MON. ON WEST SIDE OF RTE. 216 AND 0.2' BELOW SURFACE. ELEV. = 198.395

HOWARD COUNTY MON. # 1741002-R CONC. MON. ON TOP OF BANK EAST OF EAST EDGE MAC. OF RTE. 216 FLUSH WITH SURFACE.



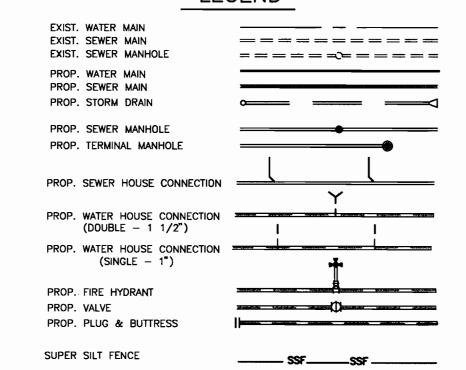
- . Filter cloth shall be fastened securely to the chain link fence with ties spaced every  $24^{\prime\prime}$  at the top and mid section. . Filter cloth shall be embedded a minimum of 8" into the ground . When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "buiges" develop in the silt fence, or when silt reaches 50% of fence height Filter cloth shall be fastened securely to each fence post with wire ties or staples at

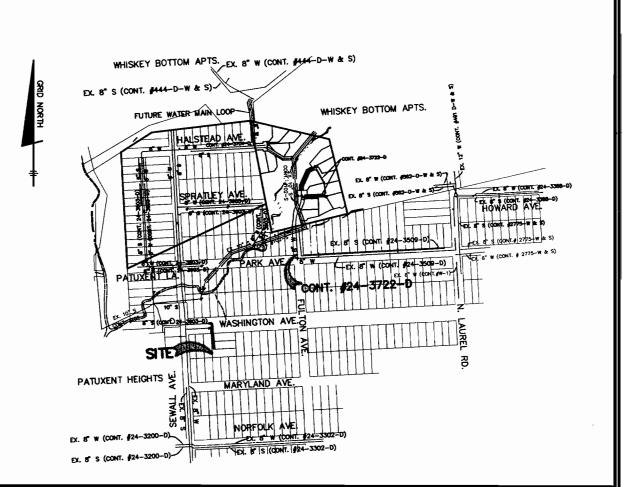
)	and mid section and sl	hall meet the following	requirements for Geotextile Class
	Tensile Strength Tensile Modulus Flow Rate Filtering Efficiency	50 lbs/in (min.) 20 lbs/in (min.) 0.3 gal/ft /minute 75% (min.)	Test: MSMT 509 Test: MSMT 509 (max.) Test: MSMT 322 Test: MSMT 322

#### SUPER SILT FENCE DESIGN CRITERIA

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet
U.S. DEPARTMENT OF AGRIC SOIL CONSERVATION SE			ARTMENT OF ENVIRONMENT AGEMENT ADMINISTRATION

#### **LEGEND**





#### LOCATION MAP SCALE: 1" = 600'

MAILN AND SEMEN COOMIN CODE	TYPE OF BUILDING: SINGLE FAMILY DETAC NUMBER OF LOTS: 3
WATER CODE: CO5	NUMBER OF SHC'S: 3 NUMBER OF WHC'S: 3
TEST GRADIENT: 550	DRAINAGE AREA : PATUXENT TREATMENT PLANT: LITTLE PATUXENT

#### GENERAL NOTES

- 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
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STAT COORDINATES (NAD' 83).
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS. 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, POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE
- COMPANIES TO SCHEDULE THE BRACING OF THE POLES. 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 TH
- CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB. 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. CONTRACTOR SHAll NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: STATE HIGHWAY ADMINISTRATION. BALTIMORE GAS & ELECTRIC CO.
- . 410-850-4620 BALTIMORE GAS & ELECTRIC CO. .410-787-906B UNDERGROUND DAMAGE CONTROL. ..1-800-257-7777 MISS UTTLITY. COLONIAL PIPELINE CO . . . . 410-795-1390 BUREAU OF UTILITIES, HOWARD CO. DEPT. OF PUBLIC WORKS....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. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- 12. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED. 13. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED.
- 14. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 15. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE 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 OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' TO 4' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN
- ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND
- BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE 7. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING
- UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS. PART 3 - SEWER
- 1. ALL SEWER MAINS SHALL BE DIP, AND P.V.C. UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4' 0" INSIDE DIAMETER UNLESS OTHERWISE
- FORCE MAINS SHALL BE D.I.P. ONLY.
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 65.52, WHERE
- WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE

6. HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

NORTH LAUREL PARK LOTS 32 TO 34, BLOCK "J"

SHOWN

HOWARD COUNTY ELECTION DISTRICT NO. 6 CONTRACT NO. 24-3936-D

SHEET 1 OF 1

DEPARTMENT OF PLANNING & ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

3-23-01

Khth Benny

NO MEETS TECHNICAL REQUIREMENTS.

**BENCHMARK** ► ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE A SUITE 418

ELLICOTT CITY, MARYLAND 21043

PHONE: 410-465-6105

FAX: 410-465-6644



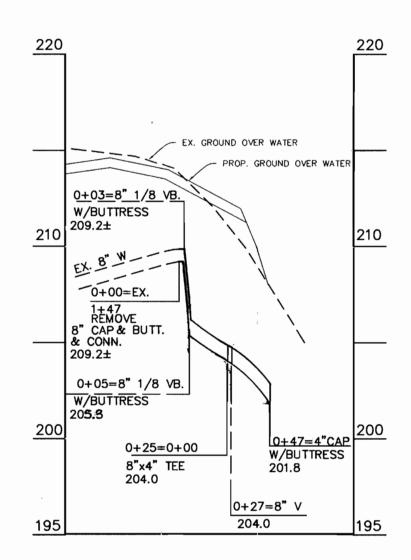
DES: YSL DATE: 10/2000 BY NO. REVISIONS DATE 600 SCALE MAP NO. 50

WATER & SEWER EXTENSION PLAN & TITLE SHEET

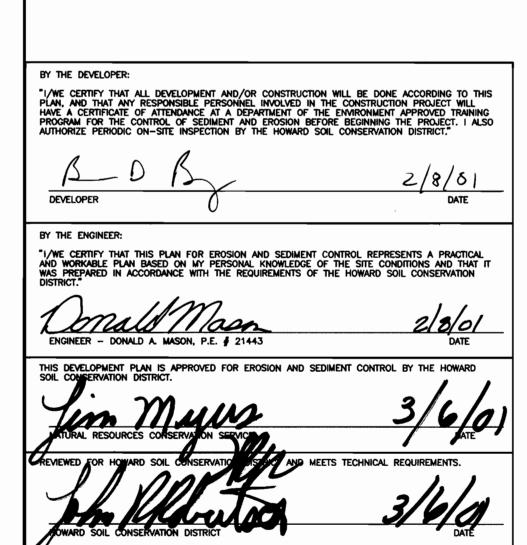
# EX. GROUND OVER SEWER 195.03/

#### WATER & SEWER PROFILE FOR LOTS 32-34 SCALE: H:1" = 50'

V: 1" = 5'



WATER MAIN PROFILE SCALE: H:1" = 50"V: 1" = 5'



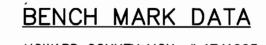
### OWNER/DEVELOPER

CORNERSTONE HOLDINGS, L.L.C. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 410-792-2565

## WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-3936-D

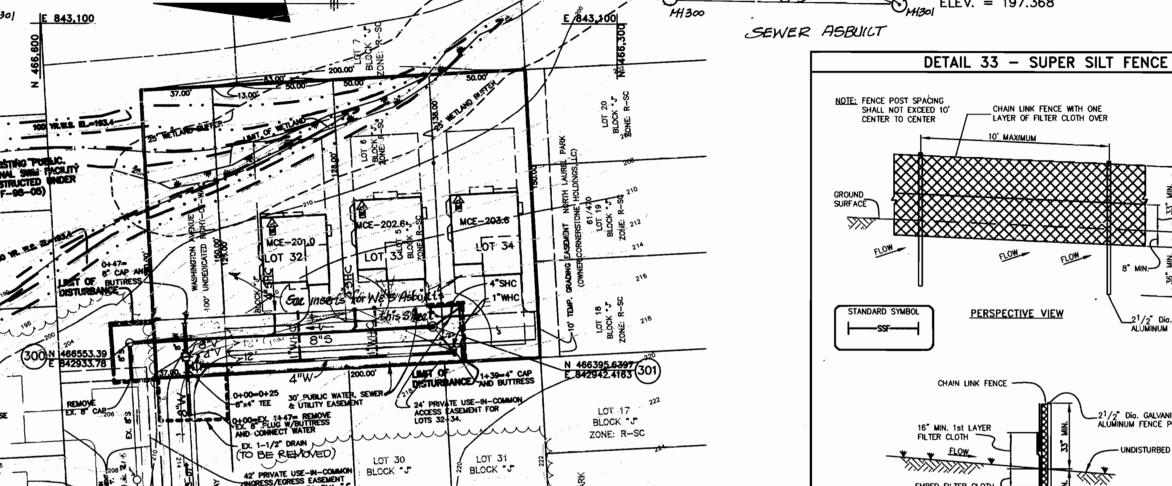
NORTH LAUREL PARK, BLOCK "J", LOTS 32 - 34

th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



HOWARD COUNTY MON. # 1741003 CONC. MON. ON WEST SIDE OF RTE. 216 AND 0.2' BELOW SURFACE.

HOWARD COUNTY MON. # 1741002-R CONC. MON. ON TOP OF BANK EAST, OF EAST EDGE MAC. OF WATE. 216 FLUSH WITH SURFACE. ELEV. = 197.368



NOTE: CONTRACTOR SHALL INSTALL

SUPER SILT FENCE ALONG THE

WATER AND SEWER EASEMENT

EASTERLY SIDE OF THE

# SUPER SILT FENCE

Chain link fence shall be fastened securely to the fence posts with wire ties. The

lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

develop in the silt fence, or when silt reaches 50% of fence height

#### SUPER SILT FENCE DESIGN CRITERIA

	SOI EN SIEI TENOE	DESIGN ON LEN	•	-
Slope	Slope <u>Steepness</u>	Slope Length (maximum)	Silt Fence Length (maximum)	
0 - 10%	0 - 10:1	Unlimited	Unlimited	1
10 - 20%	10:1 - 5:1	200 feet	1,500 feet	1
20 - 33%	5:1 - 3:1	100 feet	1,000 feet	1
33 - 50%	3:1 - 2:1	100 feet	500 feet	1
50% +	2:1 +	50 feet	250 feet	╛
EPARTMENT OF AG	RICULTURE PAGE	MARYLAND DEF	PARTMENT OF ENVIRONMENT	7

**LEGEND** 

EXIST. WATER MAIN

SUPER SILT FENCE

#### MINIMUM NUMBER NUMBER CELLAR EL 201.00

QUANTITIES					
	QUANTITIES AS-BUILT				
ITEM	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
8" WATER 4" WATER	47 L.F. 139 L.F.	47 C.F. 139C.F.	DIP CL52	GRIFFIN/HUGHES	
8"x4" TEE 4" VALVES	1 EA. 1 EA.	I EA	M.J. G.V:	TYLER   HUGHES KENNED/HUGHES	
8" VALVES 1" WHC 8" SEWER (PVC)	1 EA. 66 L.F. 177 L.F.	EA   GG L.F.   177 L.F.	G.V. COPPER SDR 35	HOWELL METAL/HUGHES	
MANHOLES 4" SHC	2 FA. 40 L.F.	Z EA · 40 L.F.	PRECAST 5DR 35	HARCO / HUGHES	
NAME OF UTILITY CONTRACTOR: $GAINES \in CO$ .					
SURVEY AND DRAFTING AS-BUILT DATE:					

SCALE: 1" = 50'

198.89

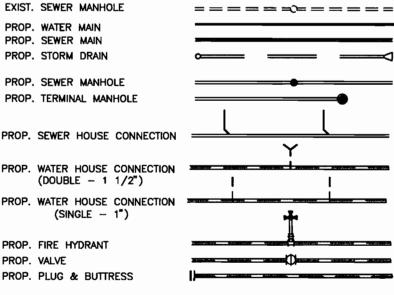
199.87

203.6

MINIMUM SEWER SERVICE

# EXIST. SEWER MAIN \_\_\_\_\_\_\_\_\_\_\_\_

----- SSF------SSF -----



LOCATION MAP

NATER AND SEWER COUNTY CODE WATER CODE: 7141500 SEWER CODE: TEST GRADIENT:

TYPE OF BUILDING: SINGLE FAMILY DETACHED NUMBER OF LOTS : NUMBER OF SHC'S: NUMBER OF WHC'S : 3 DRAINAGE AREA : PATUXENT TREATMENT PLANT: LITTLE PATUXENT

#### GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE
- COORDINATES (NAD: 83). ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY
- 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED HE 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE
- COMPANIES TO SCHEDULE THE BRACING OF THE POLES. FOR DETAILS NOT SHOWN ON THE DRAWINGS. AND FOR MATERIALS AND CONSTRUCTION METHODS. USE HOWARD COUNTY DESIGN MANUAL VOLUM IV. STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES. 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 SHA11 NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: STATE HIGHWAY ADMINISTRATION. . .410-531-5533 BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES... .410-850-4620
- BALTIMORE GAS & ELECTRIC CO. .410-787-9068 UNDERGROUND DAMAGE CONTROL MISS UTILITY. . 1-800-257-7777 . . . . . 410-795-1390
- HOWARD CO. DEPT. OF PUBLIC WORKS....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. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL
- OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS. 12. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- 13. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" TO 4' COVER UNLESS OTHERWISE NOTED. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 15. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE 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 OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE

#### ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.

- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' TO 4' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN
- ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN
- ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- PART 3 SEWER 1. ALL SEWER MAINS SHALL BE DIP, AND P.V.C.
- UNLESS OTHERWISE NOTED. ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE
- FORCE MAINS SHALL BE D.I.P. ONLY. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME

1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE

HOUSE (S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT

## NORTH LAUREL PARK

LOTS 32 TO 34, BLOCK "J"

HOWARD COUNTY ELECTION DISTRICT NO. 6 CONTRACT NO. 24-3936-D

SHOWN SHEET 1 OF 1

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

**BENCHMARK** ENGINEERS & L'AND SURVEYORS & PLANNERS ENGINEERING, INC.

PHONE: 410-465-6105

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLICOTT CITY, MARYLAND 21043 FAX: 410-465-6644

WATER ASBUILTS

L VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO HE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST

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.

ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE

ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE

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

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY,

PERMANENT SEEDBED PREPARATIONS

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

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

PREFERRED — APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER

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 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) 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 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 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.

1.) OBTAIN GRADING PERMIT.

DAY 2-8 2.) INSTALL SEDIMENT CONTROLS DEVICES.

SEQUENCE OF CONSTRUCTION

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION

DAY 6-7 4.) STABILIZE DITURBED AREA IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

5.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR,

REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED

DES: YSL DRN: YSL ASSUNCT CONPITIONS ADDED TO RAN DATE: 10/2000 BY REVISIONS

WATER & SEWER EXTENSION PLAN & TITLE SHEET 12/28/01 DATE 600 SCALE MAP NO. 50

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