

NEW CUT ROAD WASTEWATER PUMPING STATION

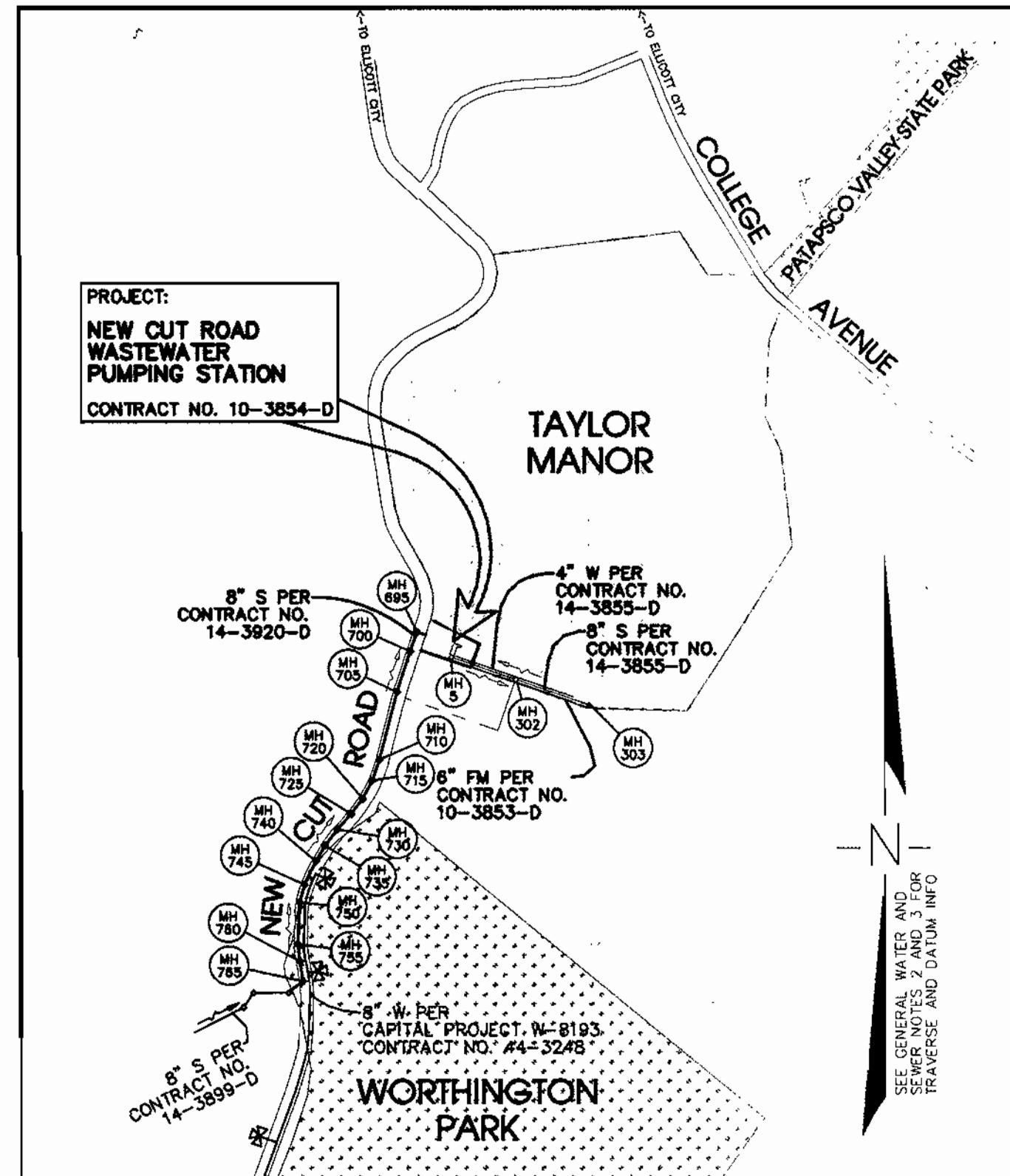
QUANTITY TABLE FOR UTILITY DESIGN				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
PUMPING STATION COMPLETE AND IN-PLACE	1 EACH			
8" SEWER D.I.P.	359 LF			
MANHOLES	4 EACH			
6" FORCE MAIN	160 LF			
6" VALVE	2 EACH			
4" MHC	72 LF			
2" MHC	39 LF			
3/4" WATER	42 LF			
4" CAP & BUTTRESS	1 EACH			
SOIL ODOR FILTER	1 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

ADDRESS CHART

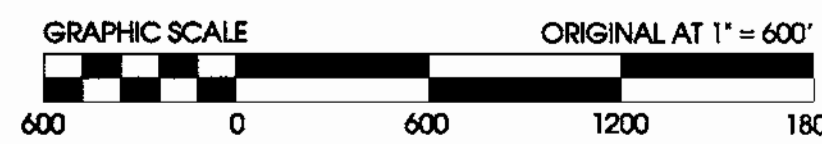
LOT NUMBER	STREET ADDRESS
OPEN SPACE LOT 1	424' NEW CUT ROAD

GENERAL SITE NOTES:

- SUBJECT PROPERTY IS LOCATED ON TAX MAP NO. 25, GRID 20, PART OF PARCEL 73, AND IS DESIGNATED AS OPEN SPACE LOT #1 ON THE PLAT PREPARED UNDER F-00-184.
- PRESENT ZONING IS POR (PLANNED OFFICE RESEARCH).
- TOTAL AREA OF PROPERTY: 26,176 SQ. FT. / 0.601 ACRES
- PROPERTY REFERENCE: FUTURE OWNER: HOWARD CO. DEPT. OF PUBLIC WORKS, BUREAU OF ENGINEERING, 3430 COURTHOUSE DRIVE, ELLICOTT CITY, MD 21045 PARENT TRACT DEEP REFERENCE: 94/350
- PARKING DATA:
 - INTENDED USE OF STRUCTURE: WASTEWATER PUMPING STATION
 - NUMBER OF SPACES REQUIRED: 2 REGULAR SPACES (9'x18') PER HOWARD COUNTY DESIGN MANUAL, VOLUME II, SECTION 5.2, ITEM 2
 - NUMBER OF SPACES PROVIDED: 2 REGULAR SPACES (10' x 18')
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTION AT (410) 313-1800 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-251-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK.
- SEE SHEET 1 FOR SCHEMATIC BUILDING PROFILES.
- STORMWATER MANAGEMENT SHALL BE PROVIDED BY UPSTREAM OVER-MANAGEMENT PER DESIGN BY VOGEL AND ASSOCIATES, REFERENCE WORTHINGTON FIELDS, F-01-60.
- ALL OUTDOOR LIGHTING MUST BE DESIGNED AND LOCATED TO COMPLY WITH THE OUTDOOR LIGHTING REQUIREMENTS OF ZONING SECTION 134.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS & SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS & SPECIFICATIONS IF APPLICABLE.
- PLAN DIMENSIONS ARE TYPICALLY TO FACE OF BUILDINGS, CENTERLINE OF PERIMETER CURB, CENTERLINE OF PIPES, OR TO THE PROPERTY LINE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH TWO (2) FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC.
- EXISTING UTILITIES ARE BASED ON INFORMATION AND PLANS PROVIDED BY FISHER, COLLINS, & CARTER, INC.
- THE 100-YEAR FLOODPLAIN IS BASED ON A STUDY BY VOGEL & ASSOCIATES PREPARED AS PART OF THE PRELIMINARY PLAN FOR THE WORTHINGTON FIELDS SUBDIVISION.
- THE METLAND DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY FISHER, COLLINS, AND ASSOCIATES.
- NEW CUT ROAD IS CLASSIFIED AS A SCENIC ROAD AND ALL SPECIFICATIONS AND REQUIREMENTS HAVE BEEN ADHERED TO ACCORDING TO RESOLUTION NO. 101-1994, AMENDMENTS TO THE DESIGN MANUAL STANDARDS FOR IMPROVEMENTS TO SCENIC ROADS PER VOL. III HOWARD COUNTY ROADS & BRIDGES DESIGN MANUAL.
- REQUIRED SETBACKS FOR POR ZONING HAVE BEEN ADDRESSED AS FOLLOWS:
 - FRONT SETBACK: REQUIRED = 30' PROVIDED = 30'
 - SIDE SETBACK: FROM RESIDENTIAL ZONE TO SOUTH: REQUIRED 50'
- SITE CONSISTS OF SOIL CLASSIFICATION: STONY LAND.
- NO CLEARINGS, GRADINGS OR CONSTRUCTION IS PERMITTED WITHIN THE METLAND LIMITS AND THE 25 FOOT METLAND BUFFER.
- IN ACCORDANCE WITH SUBDIVISION SECTION 16.1(2)(b)(1)(i), THIS PLAN IS EXEMPT FROM THE REQUIREMENTS OF THE FOREST CONSERVATION ACT BECAUSE THE LOT IS LESS THAN 40,000 SQUARE FEET IN SIZE.
- FOREST CONSERVATION OBLIGATIONS FOR FOREST CLEARINGS IN THE 30' UTILITY EASEMENT, ON THE RESIDUE OF PARCEL 73, SHALL BE MET VIA THE WORTHINGTON FIELDS SUBDIVISION, REFERENCE HOWARD COUNTY FILE NUMBER F-01-60.
- THIS PLAN IS SUBJECT TO COUNCIL RESOLUTION NO. 21-2001 WHICH APPROVED THE REDUCTION OF A 50 FOOT USE AND SETBACK REQUIRED IN SECTION 115 D. 2. (b) OF THE HOWARD COUNTY ZONING REGULATIONS TO 25 FOOT TO ALLOW CURBING / PAVING, DRIVEWAY, 7 FOOT FENCE AND PARKING SPACES WITHIN THE 50 FOOT USE AND STRUCTURE SETBACK. APPROVED 4/2/01
- REFERENCE HOWARD COUNTY FILE NUMBER: F-00-184



VICINITY MAP



WATER AND SEWER CODE FOR COUNTY USE ONLY	TYPE OF BUILDINGS - WASTEWATER PUMPING STATION
WATER CODE: 6-01	NUMBER OF BUILDABLE LOTS - ONE (1)
SEWER CODE: 1293100	NUMBER OF NON-BUILDABLE LOTS - ZERO (0)
WATER ZONE: 630	NUMBER OF MHC'S - ONE (1)
WATER TEST GRADIENT: 180	NUMBER OF SWS'S - ZERO (0)
	DRAINAGE AREA - 400 AC'S

GENERAL WATER AND SEWER NOTES:

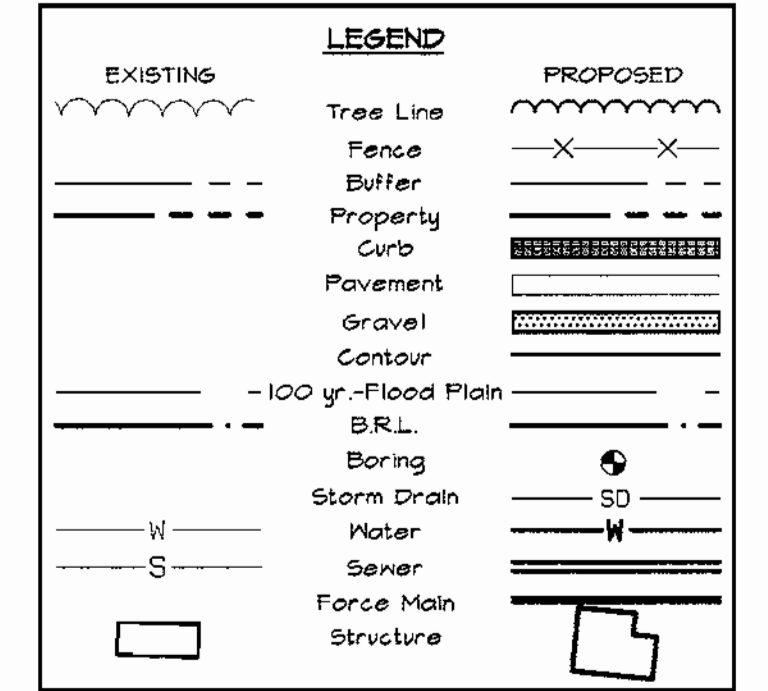
- APPROXIMATE LOCATIONS OF EXISTING MAINS OR POTENTIALLY CONCURRENT WORK BY OTHERS IS SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING OR CONSTRUCTED MAINS AND SERVICES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE TO EXISTING OR CONSTRUCTED MAINS SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83, PER A SURVEY BY FISHER, COLLINS & CARTER, INC. TRAVERSE POINTS 54 AND 055 FROM THAT SURVEY FALL CLOSEST TO THE PROJECT SITE AS SHOWN ON SHEET 2, AND PERTINENT DATA IS PROVIDED BELOW:
 - FCC TRAVERSE POINT 54: N 518.912 35 E 1364.646 01 ELEV. 300.22
 - FCC TRAVERSE POINT 055: N 518.945 81 E 1364.711 34 ELEV. 291.44
 FOR DETAILED RECOVERY INFO, SEE DRAWINGS FOR CONTRACT NO. 14-3920-D OR CONTACT FISHER, COLLINS & CARTER AT 410-461-2852.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 29 PER THE TRAVERSE POINTS NOTED IN ITEM 2 ABOVE.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALL POLES BY A MINIMUM OF 5'-0" OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS NOT MADE ARRANGEMENTS FOR BRACING OF ANY POLES. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY 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 DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- NO TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - ATT 1: 1-800-826-2000
 - BSE (CONTRACTOR SERVICES): 410-250-4620
 - BSE (UNDERGROUND DAMAGE CONTROL): 410-187-1068
 - BUREAU OF UTILITIES: 410-313-4900
 - BELL ATLANTIC MARYLAND, INC.: 1-800-621-4900
 - COLONIAL PIPELINE CO.: 410-795-1340
 - MISS UTILITY: 1-800-251-7777
 - STATE HIGHWAY ADMINISTRATION: 410-551-5533
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR WITHOUT GIVING NOTIFICATION TO THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DEVELOPMENT ENGINEERING DIVISION.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-1450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPM REQUIREMENTS PER SECTION 18.14(a) OF THE HOWARD COUNTY CODE.

GENERAL WATER NOTES:

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

GENERAL SEWER NOTES:

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.



SHEET INDEX*

UTILITY NUMBER	SDP NUMBER	DESCRIPTION
1 OF 30	SDP 1 OF 8	TITLE SHEET
2 OF 30	SDP 2 OF 8	SITE PLAN
3 OF 30	SDP 3 OF 8	GRADING PLAN
4 OF 30	SDP 4 OF 8	UTILITY PLAN
5 OF 30	SDP 5 OF 8	PROFILES
6 OF 30	SDP 6 OF 8	SEDIMENT CONTROL PLAN, NOTES, AND DETAILS
7 OF 30	SDP 7 OF 8	SITE DETAILS
8 OF 30	SDP 8 OF 8	LANDSCAPE PLAN, SCHEDULE, AND DETAILS
9 OF 30		STRUCTURAL PLAN
10 OF 30		STRUCTURAL SECTIONS
11 OF 30		ELEVATIONS
12 OF 30		SECTIONS
13 OF 30		PIPING PLAN
14 OF 30		MECHANICAL SECTIONS
15 OF 30		DETAILS
16 OF 30		DETAILS
17 OF 30		SOIL ODOR FILTER
18 OF 30		PAVILION DETAILS
19 OF 30		SCHEMATICS
20 OF 30		DRAINAGE AREA MAP
21 OF 30		MECHANICAL PLAN (M-1)
22 OF 30		MECHANICAL SECTIONS (M-2)
23 OF 30		MECHANICAL DETAILS (M-3)
24 OF 30		ABBREVIATIONS AND SYMBOLS (E-1)
25 OF 30		ELECTRICAL PLAN (E-2)
26 OF 30		ELECTRICAL SECTIONS (E-3)
27 OF 30		SCHEDULES AND SINGLE LINE DIAGRAMS (E-4)
28 OF 30		LIGHTING PLAN (E-5)
29 OF 30		SCHEMATICS (E-6)
30 OF 30		ELECTRICAL DETAILS (E-7)

OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
 HOWARD COUNTY SANITARIUM COMPANY
 4100 COLLEGE AVENUE
 P.O. BOX 396
 ELLICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
 WORTHINGTON FIELDS, LLC
 c/o LAND DESIGN AND DEVELOPMENT, LLC
 8000 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043
 ATTN: MR. DONALD R. REUWER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DEVELOPMENT ENGINEERING DIVISION
 3430 COURTHOUSE DRIVE
 ELLICOTT CITY, MD 21043
 ATTN: MR. HASSAN/PROJECT ENGINEER

ENGINEER'S CERTIFICATION

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

McCRONE
 ENGINEERING & ENVIRONMENTAL SCIENCES
 LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
 20 WOODLAWN AVENUE
 ANNAPOLIS, MARYLAND 21401
 (410) 291-1801

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 DONALD R. REUWER, JR.
 1/23/01

DEVELOPER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 2.19 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS.

MR. DONALD R. REUWER, JR.
 1-23-01

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

4/14/01
 4/4/01
 2/5/01

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

2/12/01
 2/12/01
 2/12/01

HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER.
 COUNTY HEALTH OFFICER: N/A
 DATE:

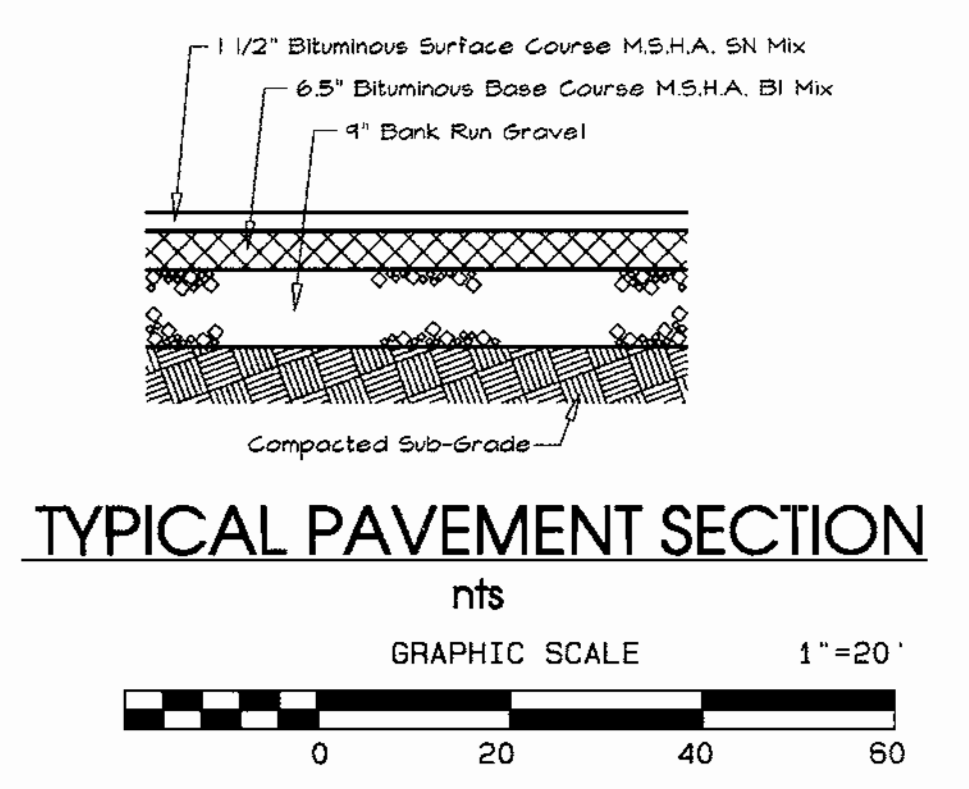
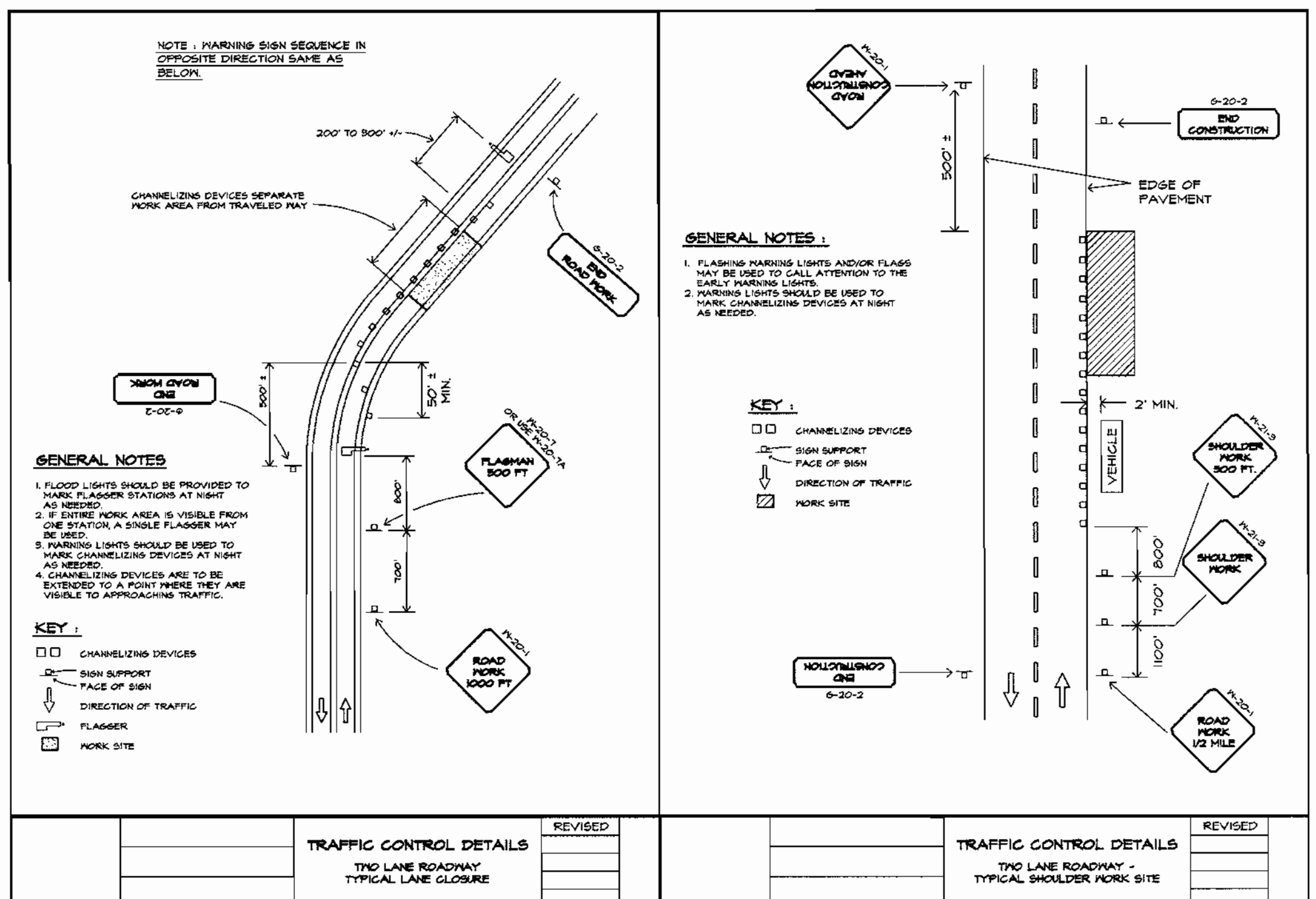
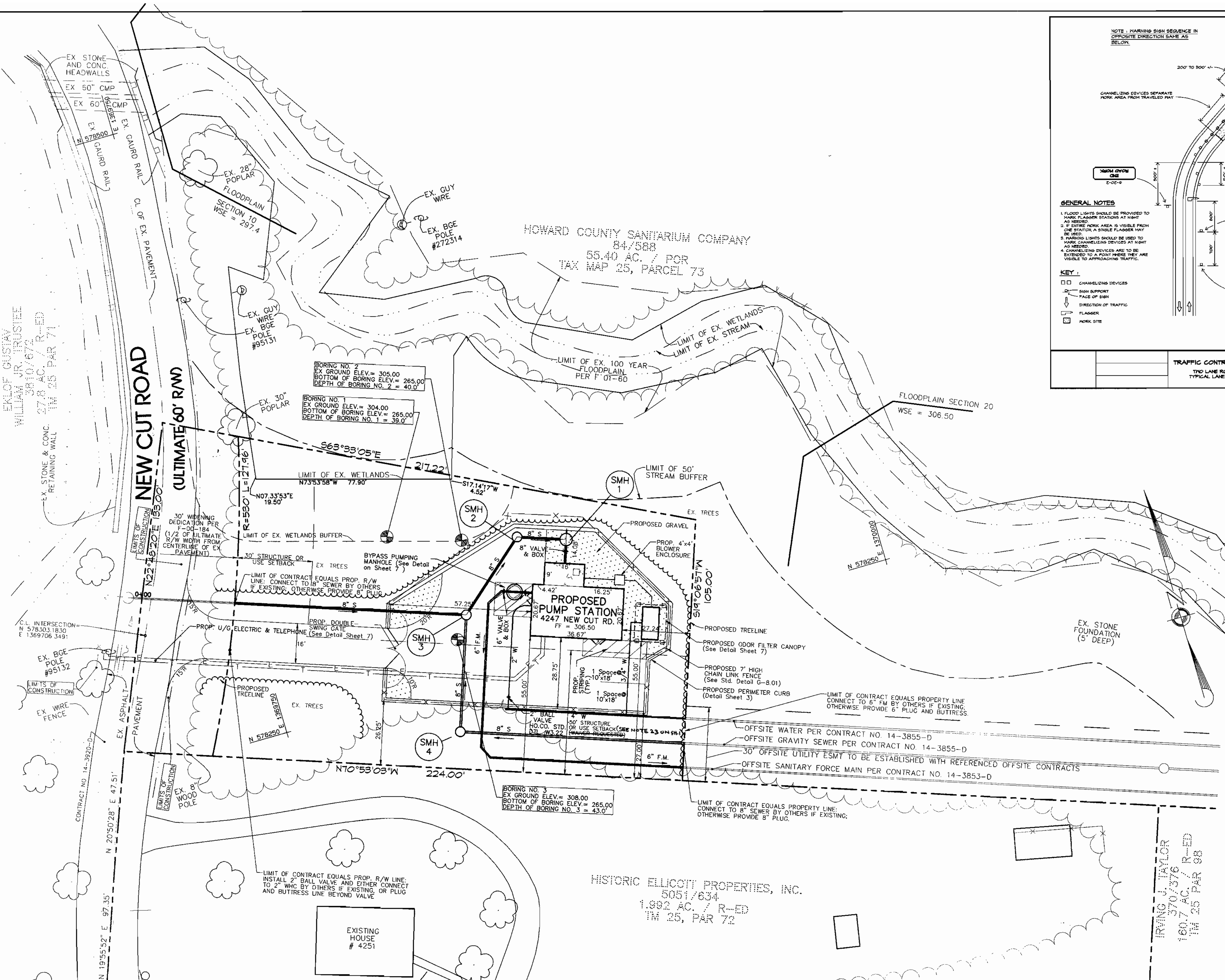
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

1-23-01
 PROJECT: HOWARD SANITARIUM CO. - OPEN SPACE LOT 1
 NEW CUT ROAD WASTEWATER PUMPING STATION
 SECTION/AREA: OPEN SPACE LOT 1
 LOT NO.: 6027
 PLAT NO.: 14594
 BLOCK NO.: 20
 ZONE: POR
 TAX ZONE: 25
 ELEC. DIST.: 2nd
 CENSUS TR.: 6027
 WATER CODE: 6-01
 SEWER CODE: 1293100

*NOTE: SHEETS 1 THROUGH 8 PRESENT CIVIL SITE DESIGN ELEMENTS THAT MUST BE REVIEWED FOR BOTH SITE DEVELOPMENT AND UTILITY DESIGN APPROVAL. CONSEQUENTLY, SHEETS 1 THRU 8 HAVE BEEN PREPARED USING THE STANDARD PLANNING AND ZONING TITLE BLOCK WITH TITLES AND SHEET NUMBERS PROVIDED FOR BOTH SETS OF DRAWINGS, AS INDICATED ON THE SHEET INDEX PROVIDED ON THIS COMBINED COVER SHEET. THE SITE DEVELOPMENT PLAN INCLUDES ONLY SHEETS 1 THROUGH 8.

TITLE SHEET

SITE DEVELOPMENT PLAN FOR
 HOWARD COUNTY SANITARIUM COMPANY
 OPEN SPACE LOT 1 / SDP-00-141
 AND
 UTILITY DESIGN DRAWINGS
 NEW CUT ROAD WASTEWATER PUMPING STATION
 CONTRACT 10-3854-D
 TAX MAP 25 GRID 20 P/O PARCEL 73
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 16, 2000
 SDP SHEET 1 OF 8 / UTILITY DESIGN SHEET 1 OF 30



OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
HOWARD COUNTY SANITARIUM COMPANY
4100 COLLEGE AVENUE
P.O. BOX 598
ELLICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
WORTHINGTON FIELDS, LLC
c/o LAND DESIGN AND DEVELOPMENT, LLC
8000 MAIN STREET
ELLICOTT CITY, MARYLAND 21043
ATTN: MR. DONALD R. REUMER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DEVELOPMENT ENGINEERING DIVISION
3400 COURTHOUSE DRIVE
ELLICOTT CITY, MD 21043
ATTN: MR. HASSAN/PROJECT ENGINEER

HOWARD COUNTY HEALTH DEPARTMENT
APPROVED FOR PUBLIC WATER AND PUBLIC SEWER.

COUNTY HEALTH OFFICER: *N/A* DATE: _____

McCRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
30 BOCELY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 291-8601

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. REID
1/22/01

ENGINEER'S CERTIFICATION
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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S CERTIFICATION
I HAVE HEREBY CERTIFIED THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. SEDIMENT CONTROL MEASURES FOR THE CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS.

MR. DONALD R. REUMER, JR. 01-23-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Paul R. Smith 4/14/01
DIRECTOR

Cindy H. Hovatta 4/14/01
CHIEF, DIVISION OF LAND DEVELOPMENT

John R. Robertson 2/15/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Jim Myers 2/12/01
U.S.D. - NATURAL RESOURCES CONSERVATION SERVICE

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

John R. Robertson 2/12/01
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth Beaman 1-23-01
CHIEF, BUREAU OF UTILITIES

PROJECT	SECTION/AREA	LOT NO.			
HOWARD SANITARIUM CO. - OPEN SPACE LOT 1 NEW CUT ROAD WASTEWATER PUMPING STATION		OPEN SPACE LOT 1			
PLAT NO.	BLOCK NO.	ZONE	TAX ZONE	ELEC. DIST.	CENSUS TR.
14594	20	POR	25	2nd	6027
WATER CODE	SEWER CODE				
G-01	1253100				

SITE PLAN

SITE DEVELOPMENT PLAN FOR HOWARD COUNTY SANITARIUM COMPANY OPEN SPACE LOT 1 / SDP-00-141

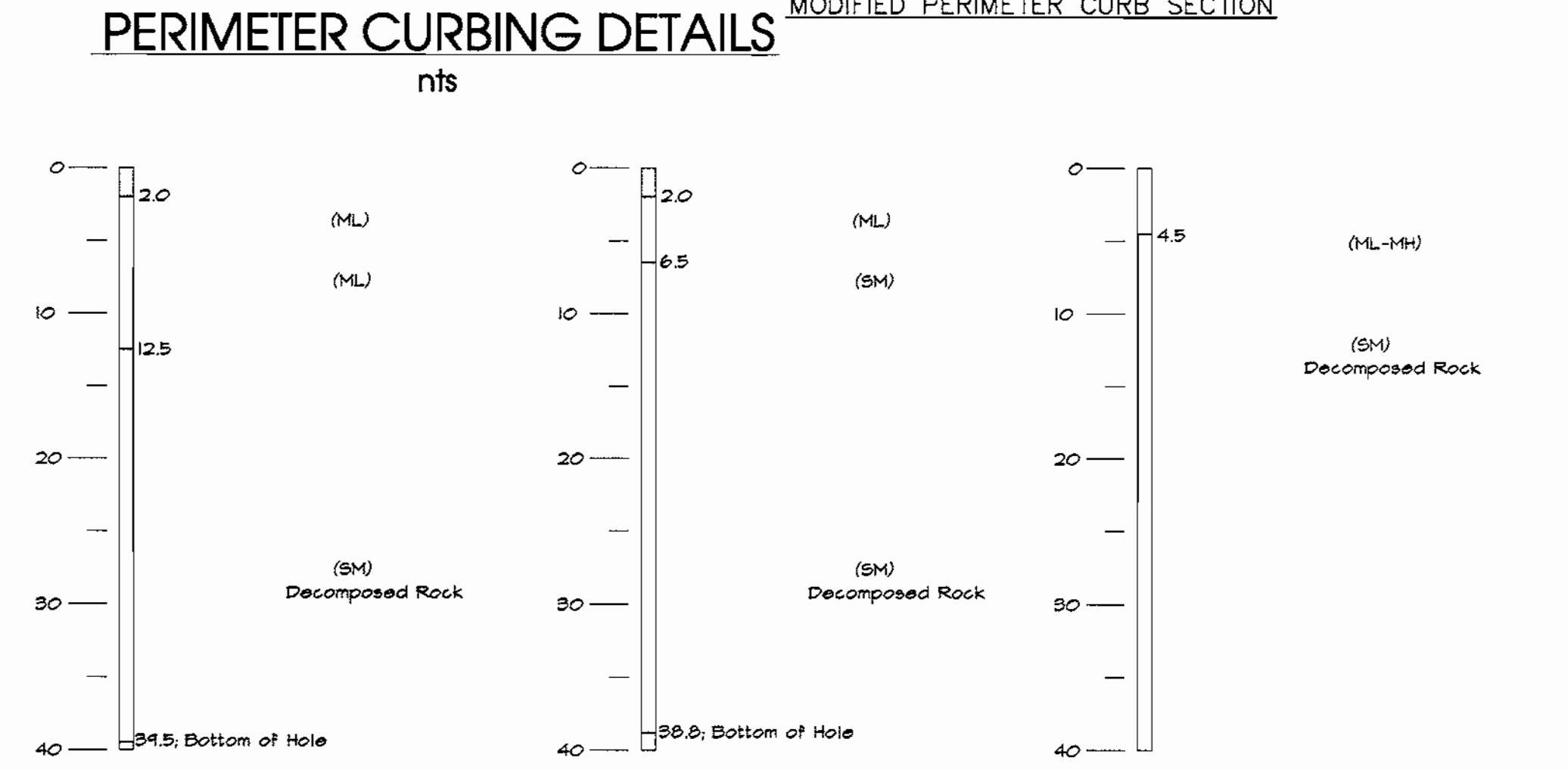
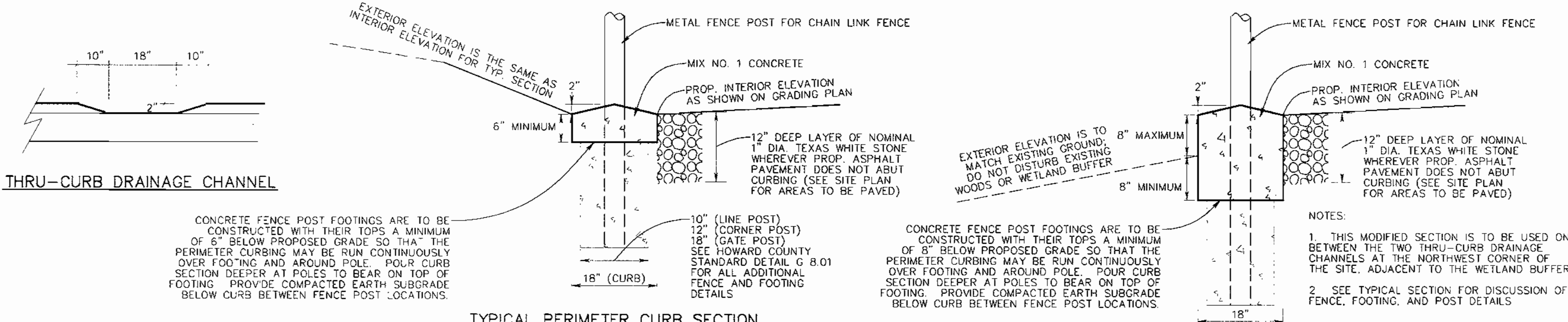
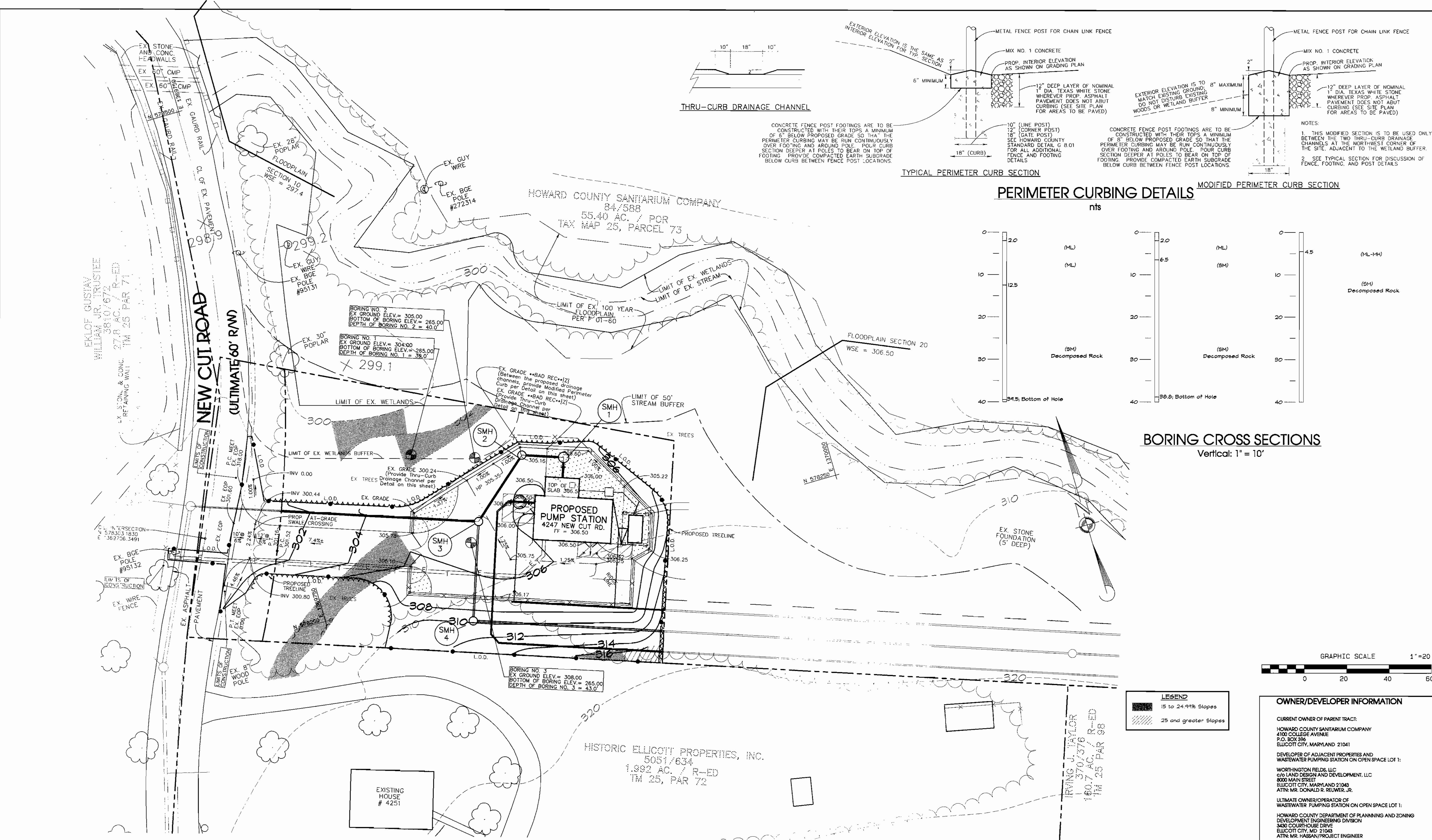
AND

UTILITY DESIGN DRAWINGS

NEW CUT ROAD WASTEWATER PUMPING STATION CONTRACT 10-3854-D

TAX MAP 25 GRID 20 P/O PARCEL 73
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 16, 2000
SDP SHEET 2 OF 8 / UTILITY DESIGN SHEET 2 OF 30

SHEET 2



BORING CROSS SECTIONS
Vertical: 1" = 10'

LEGEND

	15 to 24.99% Slopes
	25 and greater Slopes

OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
HOWARD COUNTY SANITARIUM COMPANY
4100 COLLEGE AVENUE
P.O. BOX 399
ELICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
WORTHINGTON FIELDS, LLC
c/o LAND DESIGN AND DEVELOPMENT, LLC
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
ATTN: MR. DONALD R. REUMER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DEVELOPMENT ENGINEERING DIVISION
3430 COURTHOUSE DRIVE
ELICOTT CITY, MD 21043
ATTN: MR. HASSAN/PROJECT ENGINEER

MICRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
30 MODEL AVENUE
ANNAPOLIS, MARYLAND 21403
(410) 293-8821

ENGINEER'S CERTIFICATION
"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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

[Signature]
DATE: 1/22/01

DEVELOPER'S CERTIFICATION
"I AM HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS."

[Signature]
DATE: 1-23-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature] 4/18/01
[Signature] 4/18/01
[Signature] 2/5/01

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

[Signature] 2/12/01
[Signature] 2/12/01
[Signature] 2/12/01

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 1-23-01

PROJECT	SECTION/AREA	LOT NO.
HOWARD SANITARIUM CO. - OPEN SPACE LOT 1	NEW CUT ROAD WASTEWATER PUMPING STATION	OPEN SPACE LOT 1
PLAT NO.	BLOCK NO.	ZONE
14594	20	POR
TAX/ZONE	ELEC. DIST.	CENSUS TR.
25	2nd	6027
WATER CODE	SEWER CODE	
6-01	1263100	

GRADING PLAN

SITE DEVELOPMENT PLAN FOR
HOWARD COUNTY SANITARIUM COMPANY
OPEN SPACE LOT 1 / SDP-00-141

AND

UTILITY DESIGN DRAWINGS
NEW CUT ROAD WASTEWATER PUMPING STATION
CONTRACT 10-3854-D

TAX MAP 25 GRID 20 P/O PARCEL 73
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 16, 2000
SDP SHEET 3 OF 8 / UTILITY DESIGN SHEET 3 OF 30

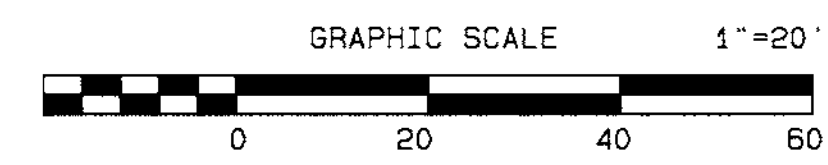
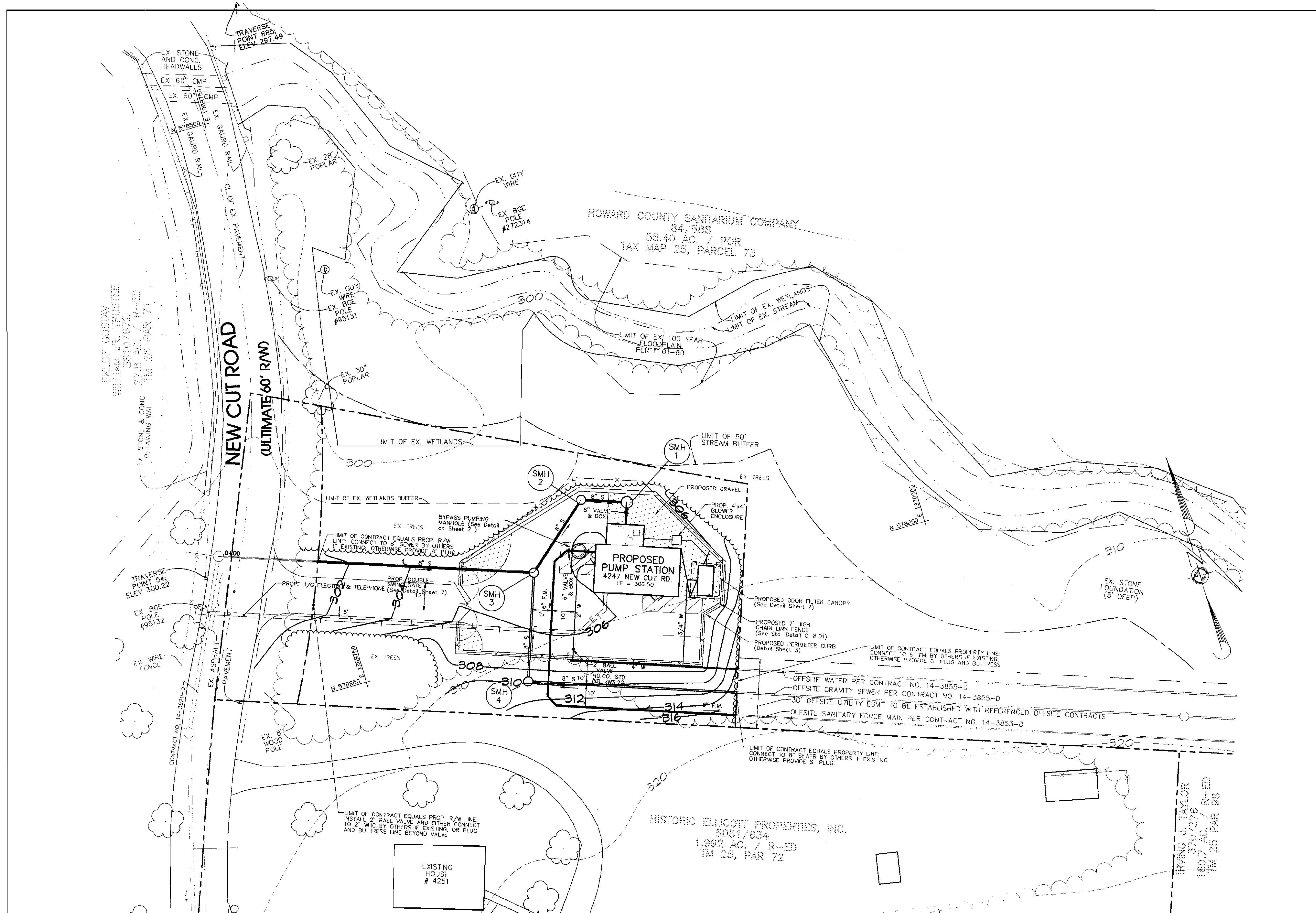
SHEET **3**

SEWER MANHOLE LOCATION DATA			
SMH	LOCATION		
1	N 578268.9600	E 1364876.8840	
2	N 578300.7163	E 1364841.0541	
3	N 578279.4258	E 1364832.2734	
4	N 578320.5407	E 1364701.4614	
5	N 578228.6593	E 1364816.0632	

3/4" ODOR FILTER SPRAY LINE HORIZONTAL LAYOUT TABLE			
Description	Station	Northing	Eastng
TEE	0+00	-	-
45° HB	-	-	-
90° HB	-	-	-
90° HB	-	-	-

2" WATER HOUSE CONNECTION HORIZONTAL LAYOUT TABLE			
Description	Station	Northing	Eastng
Tie-in	0+00.00	578249.8877	1364715.2166
45° HB	00+81.72	578249.1268	1364742.4285
45° HB	01+24.50	578287.8025	1364830.4167
Into Bldg	01+55.83	578277.5410	1364860.5294

6" FORCE MAIN HORIZONTAL LAYOUT TABLE			
Description	Station	Northing	Eastng
Exit Building	0+00	-	-
Isolation Valve	-	-	-
Isolation Valve	-	-	-
CL of Bypass MH	00+12.00	578274.2237	1364846.6738
45° HB	00+14.10	578274.9125	1364844.6862
45° HB	00+20.43	578272.1484	1364838.4907
45° HB	00+56.34	578256.1464	1364826.5126



OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
 HOWARD COUNTY SANITARIUM COMPANY
 4100 COLLEGE AVENUE
 P.O. BOX 396
 ELLICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
 WORTHINGTON FIELDS, LLC
 c/o LAND DESIGN AND DEVELOPMENT, LLC
 8000 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043
 ATTN: MR. DONALD R. REUWER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DEVELOPMENT ENGINEERING DIVISION
 3400 COURTHOUSE DRIVE
 ELLICOTT CITY, MD 21043
 ATTN: MR. HASSAN/PROJECT ENGINEER

ENGINEER'S CERTIFICATION

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

MICRONE
 ENGINEERING & ENVIRONMENTAL SCIENCES
 LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
 100 N. GLENN AVE. #200
 ANNAPOLIS, MARYLAND 21403
 (410) 267-8821

Signature: [Signature]
 DATE: 1/22/01

DEVELOPER'S CERTIFICATION

I HAVE HEREBY CERTIFIED THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS.

Signature: [Signature]
 DATE: 1-23-01

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Signature: [Signature]
 DATE: 4/14/01

Signature: [Signature]
 DATE: 4/14/01

Signature: [Signature]
 DATE: 2/5/01

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature: [Signature]
 DATE: 2/2/01

Signature: [Signature]
 DATE: 2/12/01

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Signature: [Signature]
 DATE: 1-23-01

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
14594	20	POR	25	2nd	6027

WATER CODE: 6-01
 SEWER CODE: 1253100

UTILITY PLAN

SITE DEVELOPMENT PLAN FOR HOWARD COUNTY SANITARIUM COMPANY OPEN SPACE LOT 1 / SDP-00-141

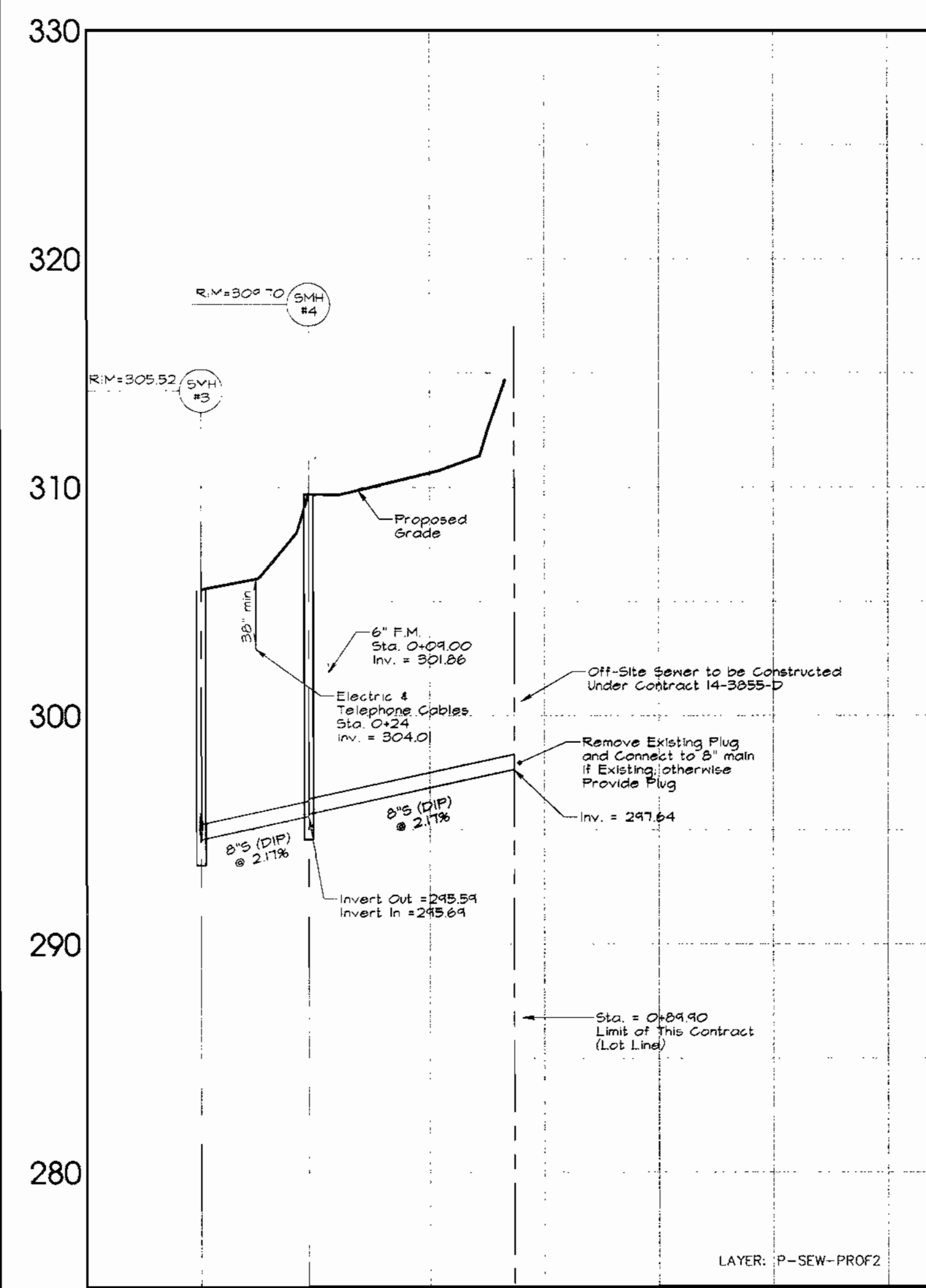
AND

UTILITY DESIGN DRAWINGS

NEW CUT ROAD WASTEWATER PUMPING STATION CONTRACT 10-3854-D

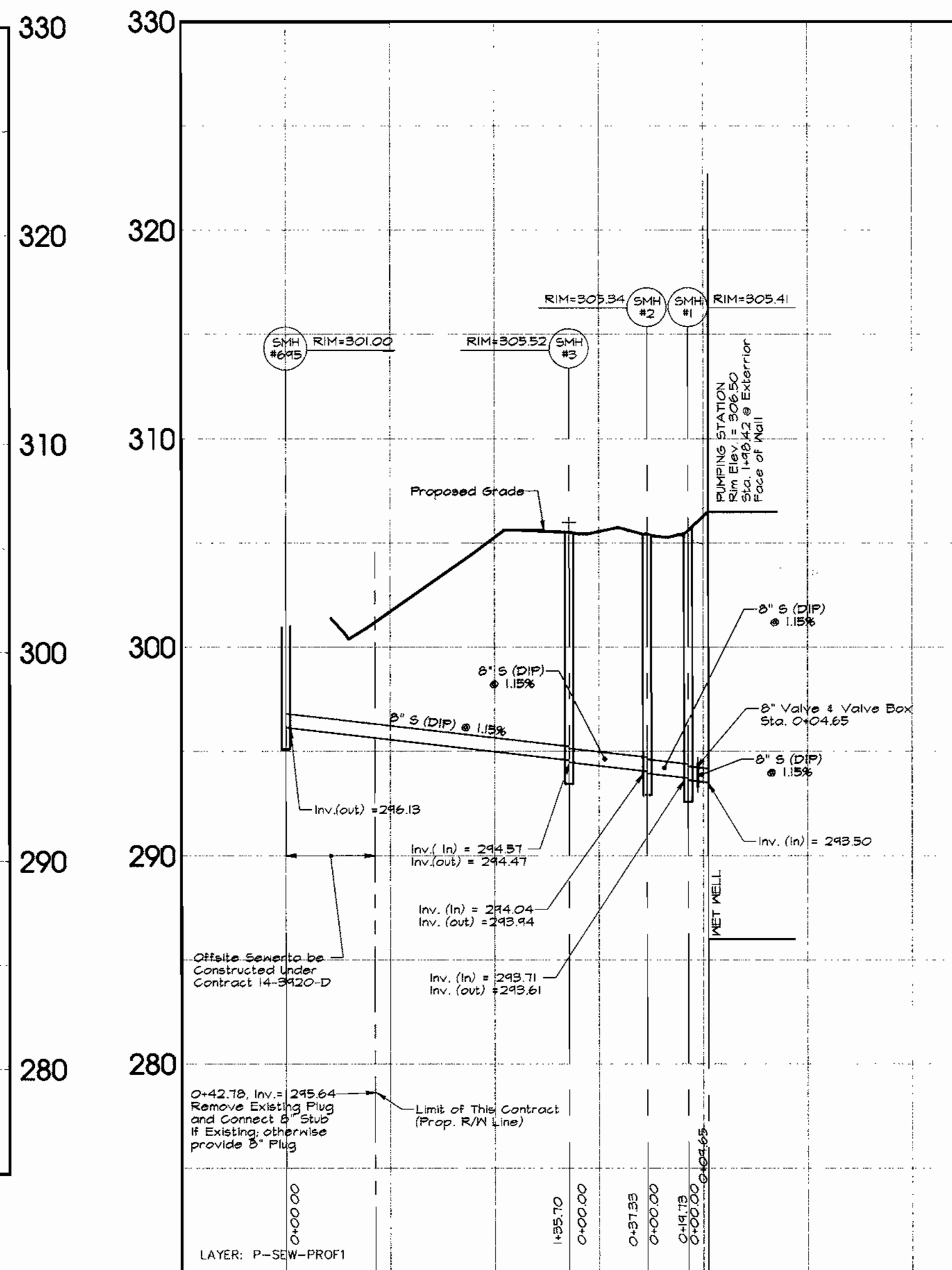
TAX MAP 25 GRID 20 P/O PARCEL 73
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 16, 2000
 SDP SHEET 4 OF 8 / UTILITY DESIGN SHEET 4 OF 30

SHEET 4



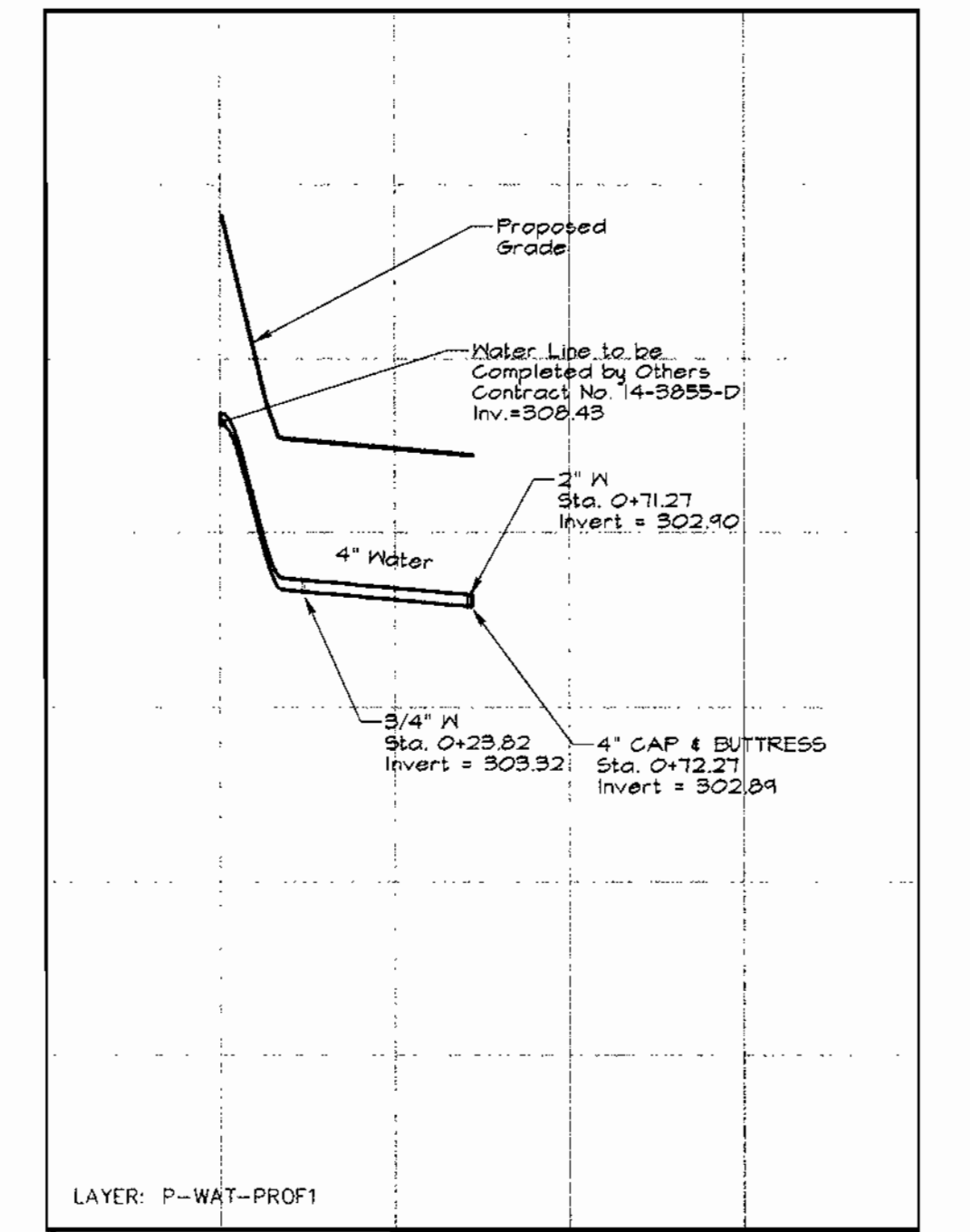
PROFILE: 8" SEWER FROM REAR PROPERTY

H = 5'
V = 50'



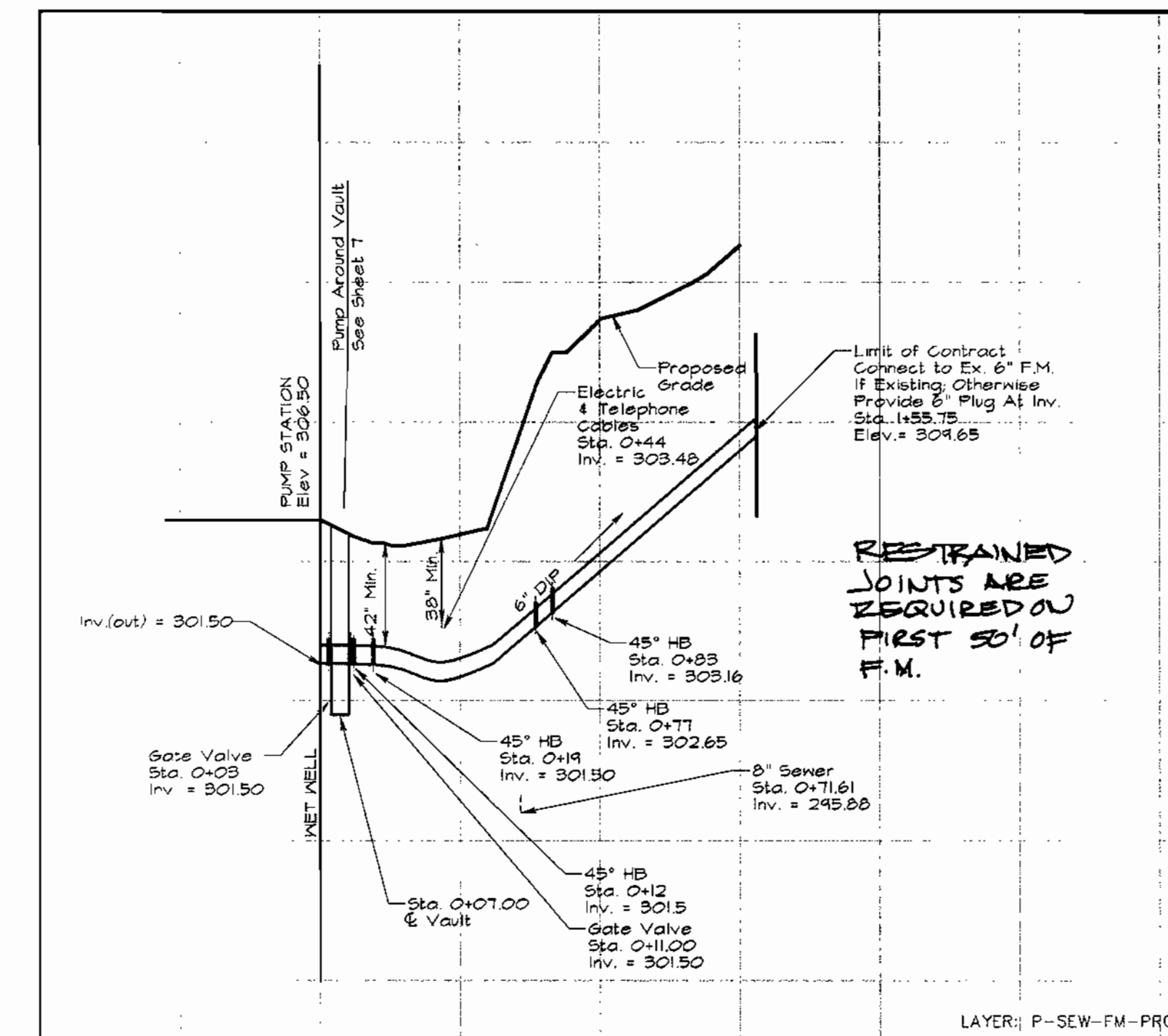
PROFILE: 8" SEWER FROM NEW CUT ROAD

H = 5'
V = 50'



PROFILE: 2" WATER LINE

H = 5'
V = 50'



PROFILE: 6" FORCE MAIN

H = 5'
V = 50'

NOTE:
Manhole 4 to be completed in accordance with design of continued system, done by another Consulting Engineer. Elevation, placement, and invert to be finalized upon approval of these plans and design of sewer system along New Cut Road to Pumping Station at SMH-4.

OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
HOWARD COUNTY SANITARIUM COMPANY
4100 COLLEGE AVENUE
P.O. BOX 396
ELLCOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
WORTHINGTON FIELDS, LLC
6/G LAND DESIGN AND DEVELOPMENT, LLC
8000 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
ATTN: MR. DONALD R. REUWER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DEVELOPMENT ENGINEERING DIVISION
3400 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
ATTN: MR. HASSAN/PROJECT ENGINEER

MICRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
20 ROBERT AVENUE
ANAPOLIS, MARYLAND 21401
(410) 297-2921

ENGINEER'S CERTIFICATION
"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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

STATE OF MARYLAND
PROFESSOR OF ENGINEERING
MICHAEL J. REUWER
1/22/01
DATE

DEVELOPER'S CERTIFICATION
"I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS."

MR. DONALD R. REUWER, JR.
01-23-01
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

4/4/01
DATE

4/11/01
DATE

2/5/01
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE
DATE

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

HOWARD SOIL CONSERVATION DISTRICT
DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

1-23-01
DATE

PROJECT: HOWARD SANITARIUM CO. - OPEN SPACE LOT 1
NEW CUT ROAD WASTEWATER PUMPING STATION

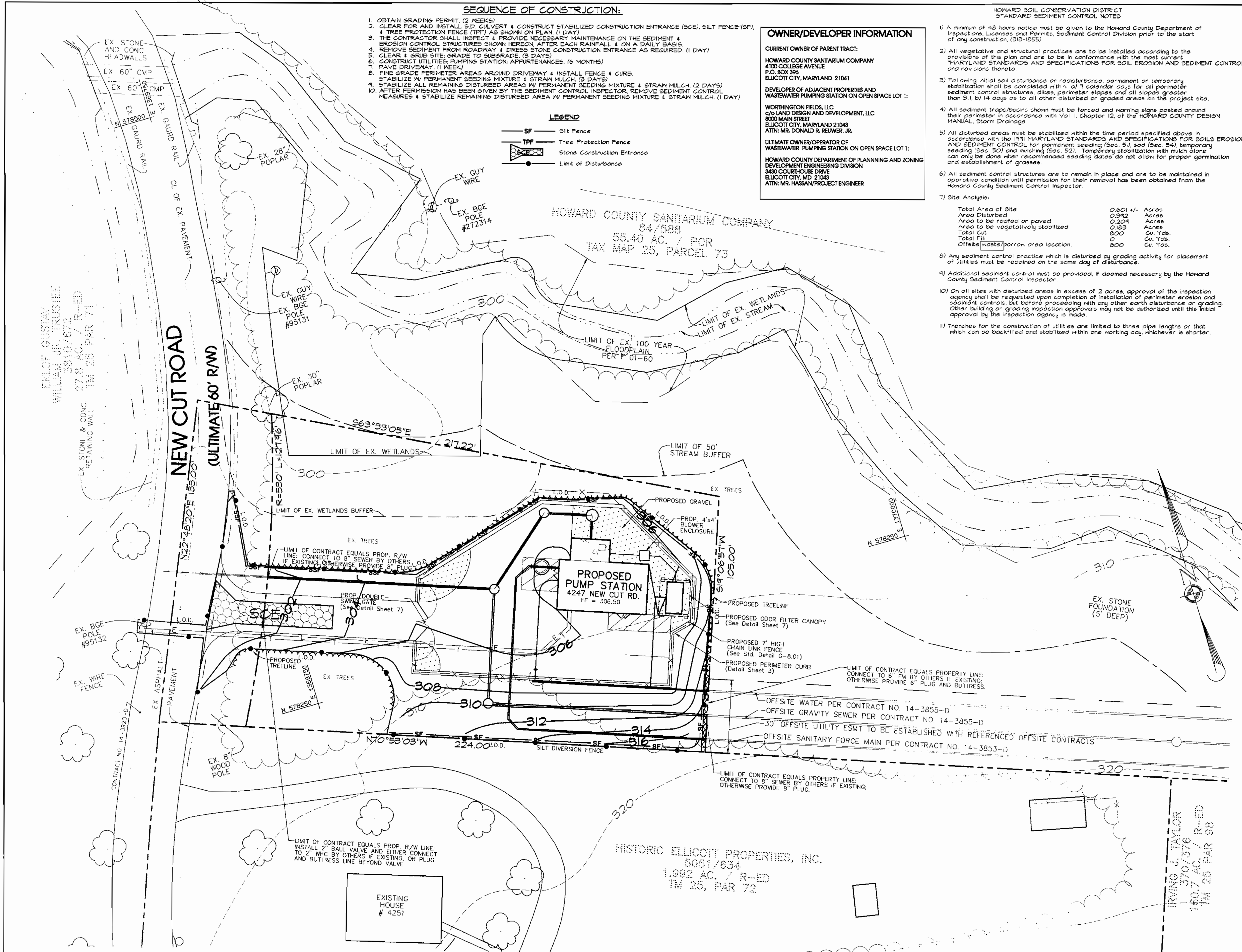
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
14594	20	POR	25	2nd	6027

WATER CODE: G-01
SEWER CODE: 1253100

PROFILES
SITE DEVELOPMENT PLAN FOR
HOWARD COUNTY SANITARIUM COMPANY
OPEN SPACE LOT 1 / SDP-00-141
AND
UTILITY DESIGN DRAWINGS
NEW CUT ROAD WASTEWATER PUMPING STATION
CONTRACT 10-3854-D

TAX MAP 25 GRID 20 P/O PARCEL 73
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 16, 2000
SDP SHEET 5 OF 8 / UTILITY DESIGN SHEET 5 OF 30

SHEET
5



ENGINEER'S CERTIFICATION

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

MICRONE
 ENGINEERING & ENVIRONMENTAL SCIENCES
 LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES
 20 S. BELLY AVENUE
 ANNAPOLIS, MARYLAND 21401
 (410) 267-8621

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 DONALD R. REUWER, JR.
 1/22/01
 DATE

DEVELOPER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SEEDMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THIS PLAN.

MR. DONALD R. REUWER, JR.
 1-23-01
 DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

APPROVED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

CONDUCTED BY: *Condy Kwanter* 4/4/01
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED BY: *John R. Robertson* 2/2/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

PROJECT: HOWARD SANITARIUM CO. - OPEN SPACE LOT 1
 NEW CUT ROAD WASTEWATER PUMPING STATION

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
14994	20	POR	25	2nd	6027

WATER CODE: G-01
 SEWER CODE: 1253100

SEDIMENT CONTROL PLAN, NOTES, AND DETAILS

SITE DEVELOPMENT PLAN FOR HOWARD COUNTY SANITARIUM COMPANY OPEN SPACE LOT 1 / SDP-00-141

AND

UTILITY DESIGN DRAWINGS NEW CUT ROAD WASTEWATER PUMPING STATION CONTRACT 10-3854-D

TAX MAP 25, GRID 20, P/O PARCEL 73
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 16, 2000
 SDP SHEET 6 OF 8 / UTILITY DESIGN SHEET 6 OF 30

SHEET 6

HOWARD SOIL CONSERVATION DISTRICT
 STANDARD 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 three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
 1. Preferred - Apply 2 tons/acre dolomitic limestone (42 lbs/1000 sq. ft.) and 600 lbs/acre 10-0-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harvest or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 urea/ammonia fertilizer (4 lbs/1000 sq. ft.).
 2. Acceptable - Apply 2 tons/acre dolomitic limestone (42 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harvest or disk into upper three inches of soil.
 3. Seeding - For the periods March 1 - April 30, and August 1 - October 15, seed with 60 lbs/acre (14 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (0.5 lbs/1000 sq. ft.) of creeping lovegrass. During the period of October 16 - February 28, protect site by Option 1 - Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2 - Use seed. Option 3 - Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw mulch and seed as soon as possible in the spring, or use seed.

Mulching: Apply 1-1/2 to 2 tons/acre (10 to 40 lbs/1000 sq. ft.) of unwrapped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool of 2lb gals/acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 340 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeding areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

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

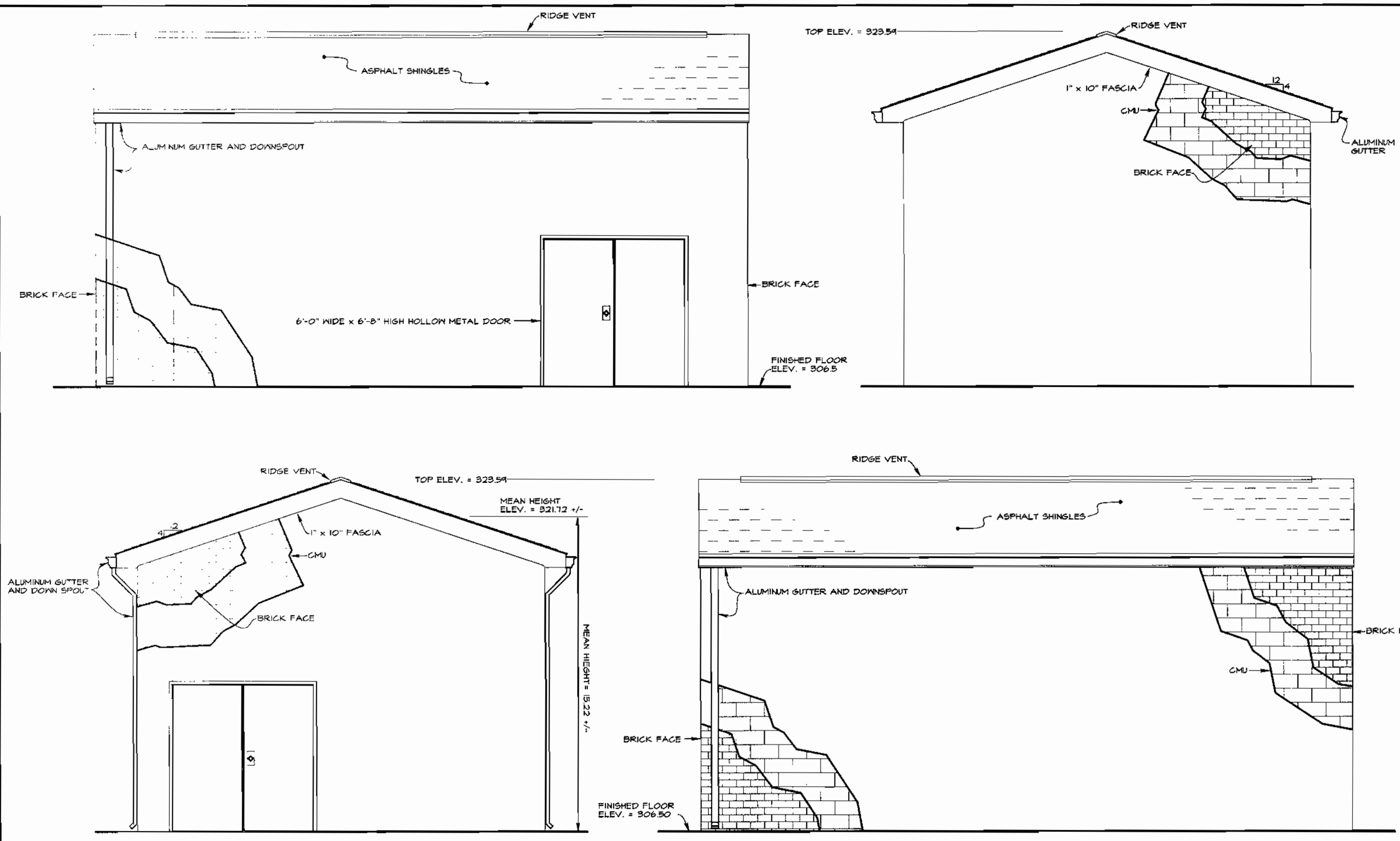
Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

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

Seeding: For the periods March 1 - April 30 and from August 15 - October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 - August 14, seed with 3 lbs/acre of creeping lovegrass (0.75 lbs/1000 sq. ft.). For the period November 16 - February 28, protect site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

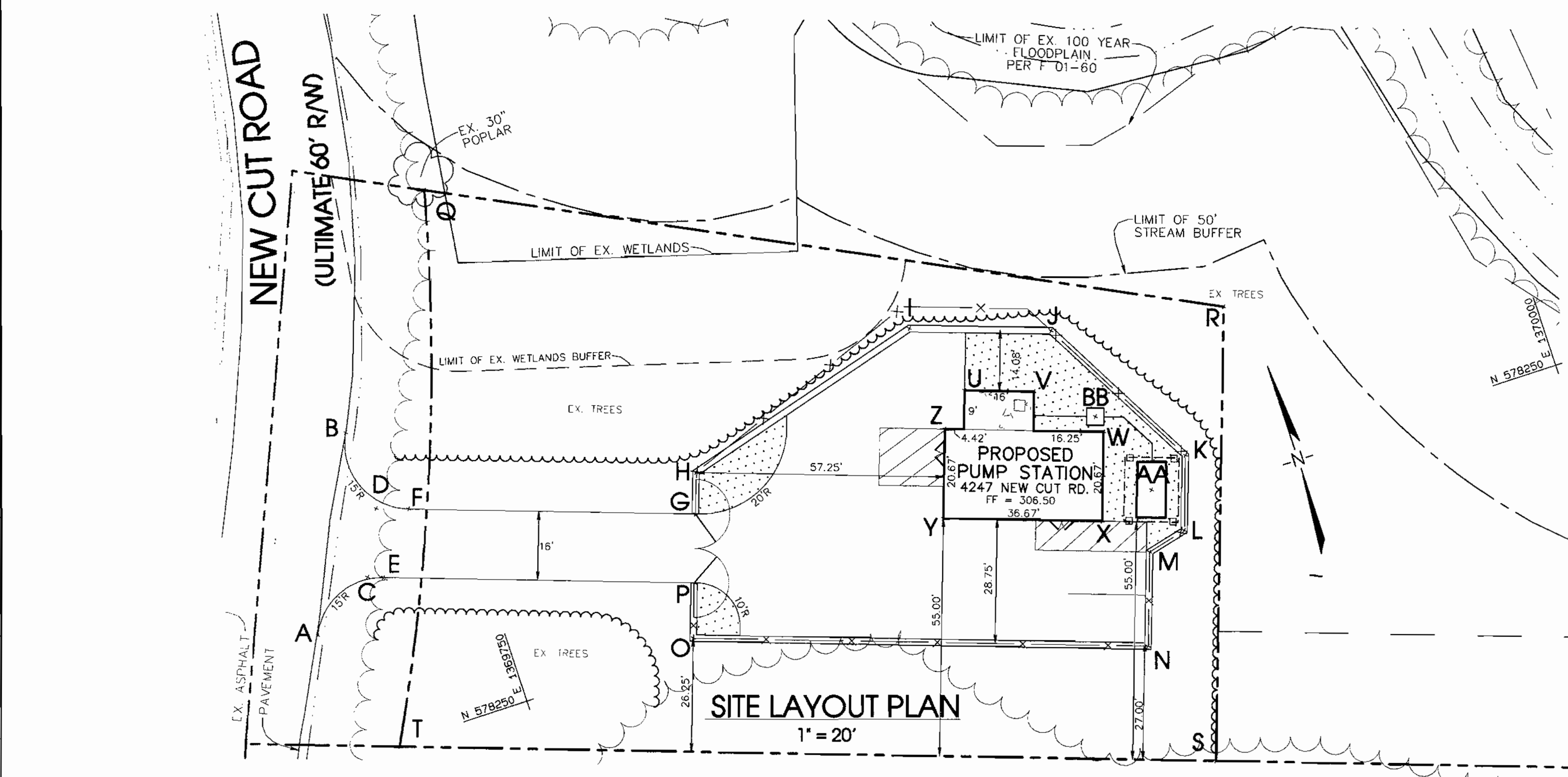
Mulching: Apply 1-1/2 to 2 tons/acre (10 to 40 lbs/1000 sq. ft.) of unwrapped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool of 2lb gals/acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 340 gal per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional notes and methods not covered.

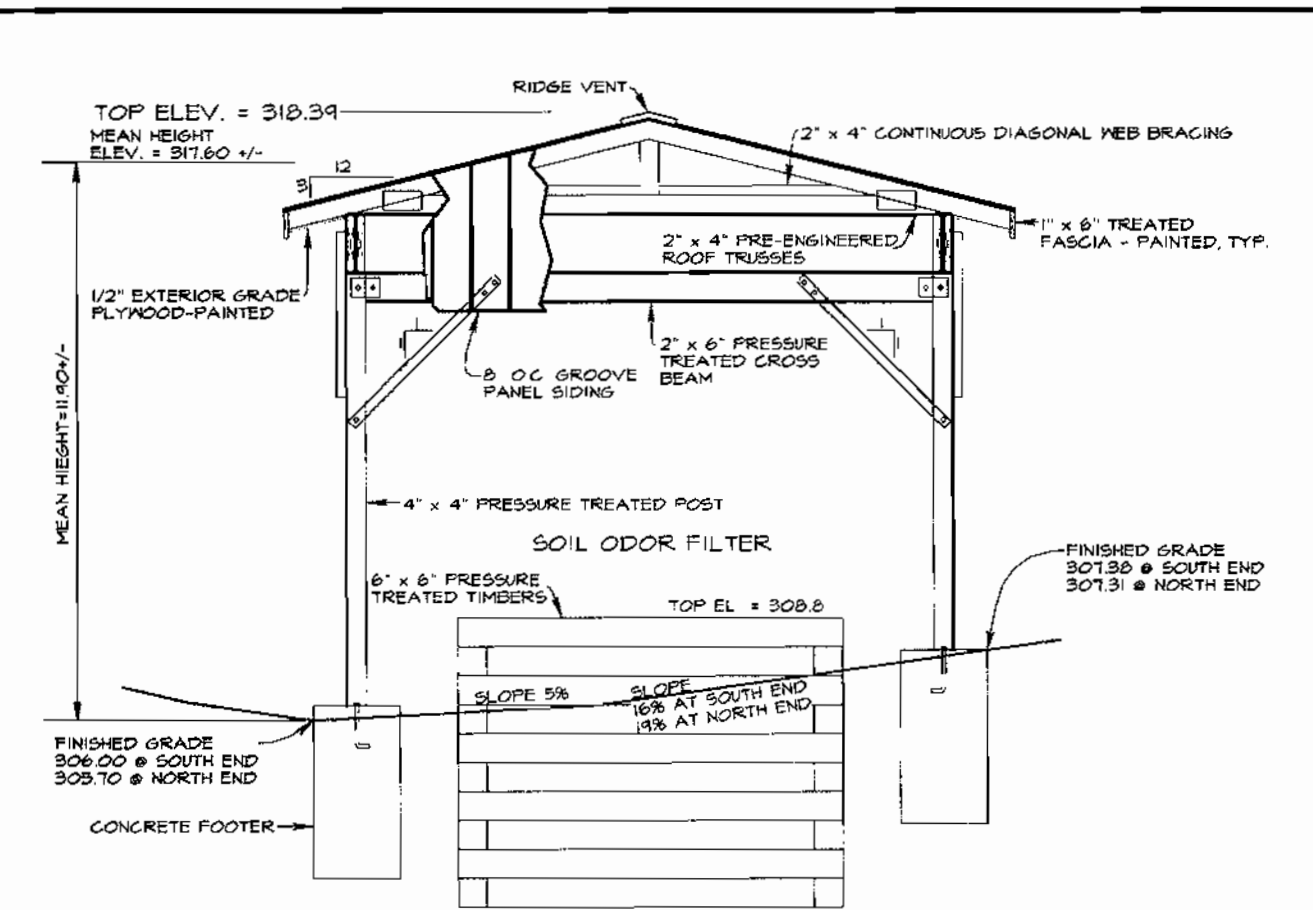


SCHEMATIC BUILDING PROFILES
nts

NOTE: THIS DETAIL IS PROVIDED TO PRESENT A GENERAL ELEVATION VIEW FOR AESTHETIC ZONING AND ARCHITECTURAL REVIEW IN CONJUNCTION WITH SDP ONLY. FOR CONSTRUCTION DETAILS, SEE APPROPRIATE UTILITY DESIGN SHEETS 9 THRU 30.

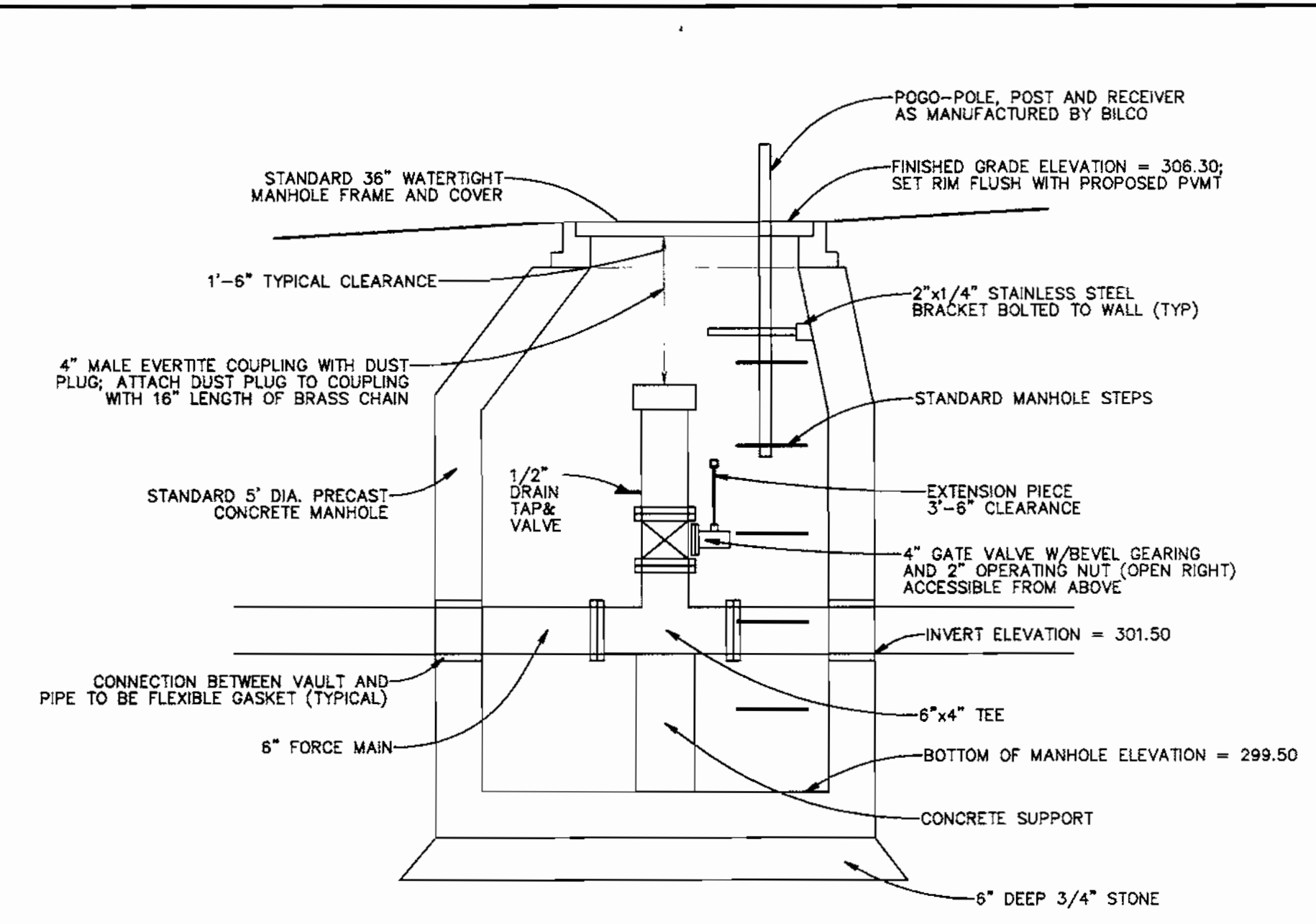


SITE LAYOUT PLAN
1" = 20'

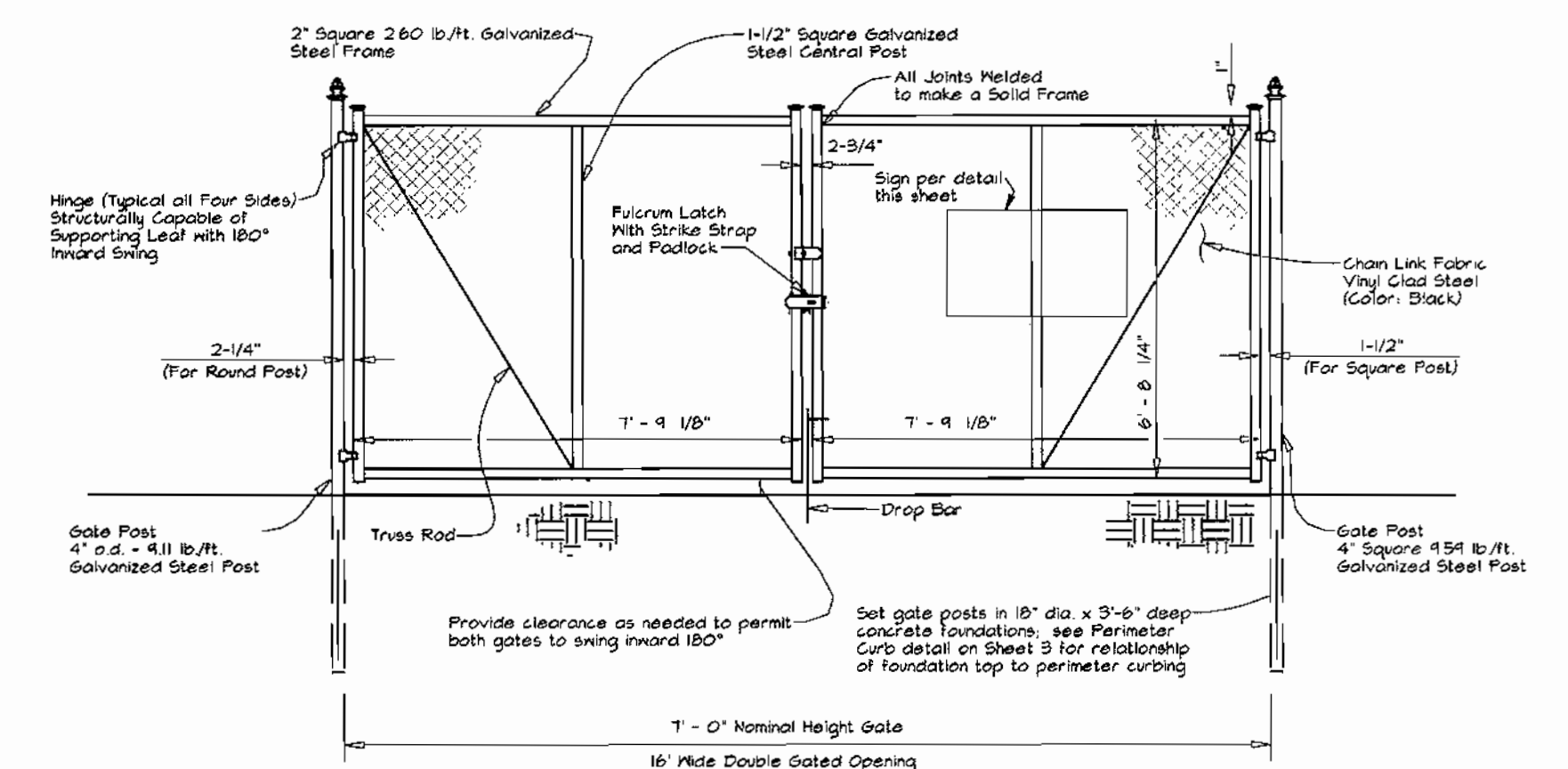


SOIL ODOR FILTER
nts

NOTE: THIS DETAIL IS PROVIDED TO PRESENT A GENERAL ELEVATION VIEW FOR AESTHETIC ZONING AND ARCHITECTURAL REVIEW IN CONJUNCTION WITH SDP ONLY. FOR CONSTRUCTION DETAILS, SEE APPROPRIATE UTILITY DESIGN SHEETS 9 THRU 30.



BYPASS PUMPING MANHOLE
nts



CHAIN LINK FENCE DOUBLE GATE DETAIL
nts

- NOTES:
- CONTRACTOR SHALL PROVIDE AND SECURELY MOUNT SIGN ON CHAIN LINK GATE AT APPROXIMATE LOCATION SHOWN ON DETAIL FOR GATE
 - SIGN MATERIAL TO BE 0.080" THICK ALUMINUM SHEET METAL
 - FINISH TO BE BAKED ENAMEL PAINT
 - COAT WITH POLYESTER BASED SPRAY

GATE SIGN DETAIL
nts

SITE LAYOUT COORDINATES

Point	Northing	Easting	Description
A	578219.3714	1364708.8463	E.O.P.
B	578321.9965	1364724.6653	E.O.P.
C	578288.6080	1364724.0054	SWALE
D	578303.1616	1364730.8731	SWALE
E	578281.3447	1364721.4422	E.O.P.
F	578300.7064	1364737.4571	E.O.P.
G	578274.0455	1364800.4542	CL OF FENCE @ END
H	578288.1255	1364803.8012	CL OF FENCE @ CORNER
I	578324.4568	1364860.7402	CL OF FENCE @ CORNER
J	578249.7285	1364841.6883	CL OF FENCE @ CORNER
K	578256.8036	1364912.2405	CL OF FENCE @ CORNER
L	578240.35.5	1364906.5984	CL OF FENCE @ CORNER
M	578288.0462	1364847.3720	CL OF FENCE @ CORNER
N	578217.4855	1364840.2443	CL OF FENCE @ CORNER
O	578251.8808	1364791.0542	CL OF FENCE @ CORNER
P	578263.9278	1364745.2145	CL OF FENCE @ END
Q	578364.6497	1364764.3425	PROPERTY CORNER
R	578286.6141	1364931.2487	PROPERTY CORNER
S	578187.4040	1364846.4135	PROPERTY CORNER
T	578244.1254	1364718.2315	PROPERTY CORNER
U	578226.8850	1364868.4365	MET WELL CORNER
V	578281.6455	1364883.5942	MET WELL CORNER
W	578267.8202	1364845.9605	BUILDING CORNER
X	578248.2400	1364884.1915	BUILDING CORNER
Y	578260.2473	1364854.5474	BUILDING CORNER
Z	578274.8275	1364861.3164	BUILDING CORNER
AA	578251.6545	1364902.2642	CENTER ODOR FILTER
BB	57827.7822	1364845.2170	CENTER BLOWER

OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
HOWARD COUNTY SANITARIUM COMPANY
4100 COLLEGE AVENUE
P.O. BOX 396
ELICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
WORTHINGTON FIELDS, LLC
610 LAND DESIGN AND DEVELOPMENT, LLC
800 MAIN STREET
ELICOTT CITY, MARYLAND 21043
ATTN: MR. DONALD R. REUWER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DEVELOPMENT ENGINEERING DIVISION
3430 COURTHOUSE DRIVE
ELICOTT CITY, MD 21045
ATTN: MR. HASSAN/PROJECT ENGINEER

MICRONE
ENGINEERING & SURVEYING & CONSTRUCTION SCIENCES
LAND PLANNING & SURVEYING & CONSTRUCTION SCIENCES
30 ROCKY HILL AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 787-8821

ENGINEER'S CERTIFICATION
"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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

STATE OF MARYLAND
MICHAEL J. REUWER
REGISTERED PROFESSIONAL ENGINEER
No. 12218
1/22/01
SIGNATURE OF ENGINEER
DATE

DEVELOPER'S CERTIFICATION
"I HAVE HEREBY CERTIFIED THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. "EROSION CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS."

MR. DONALD R. REUWER, JR.
1-23-01
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Director: [Signature] 4/14/01
DATE

Chief, Division of Land Development: [Signature] 4/14/01
DATE

Chief, Development Engineering Division: [Signature] 2/5/01
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE [Signature] DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Chief, Bureau of Utilities: [Signature] 1-23-01
DATE

PROJECT: HOWARD SANITARIUM CO. - OPEN SPACE LOT 1
NEW CUT ROAD WASTEWATER PUMPING STATION

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
14594	20	POR	25	2nd	6027

SECTION/AREA: []
LOT NO.: []
OPEN SPACE LOT 1

WATER CODE: G-01
SEWER CODE: 1253100

SITE DETAILS
SITE DEVELOPMENT PLAN FOR
HOWARD COUNTY SANITARIUM COMPANY
OPEN SPACE LOT 1 / SDP-00-141
AND
UTILITY DESIGN DRAWINGS
NEW CUT ROAD WASTEWATER PUMPING STATION
CONTRACT 10-3854-D

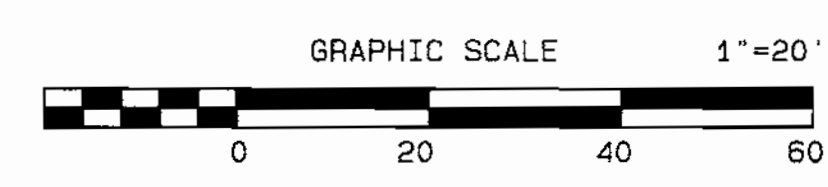
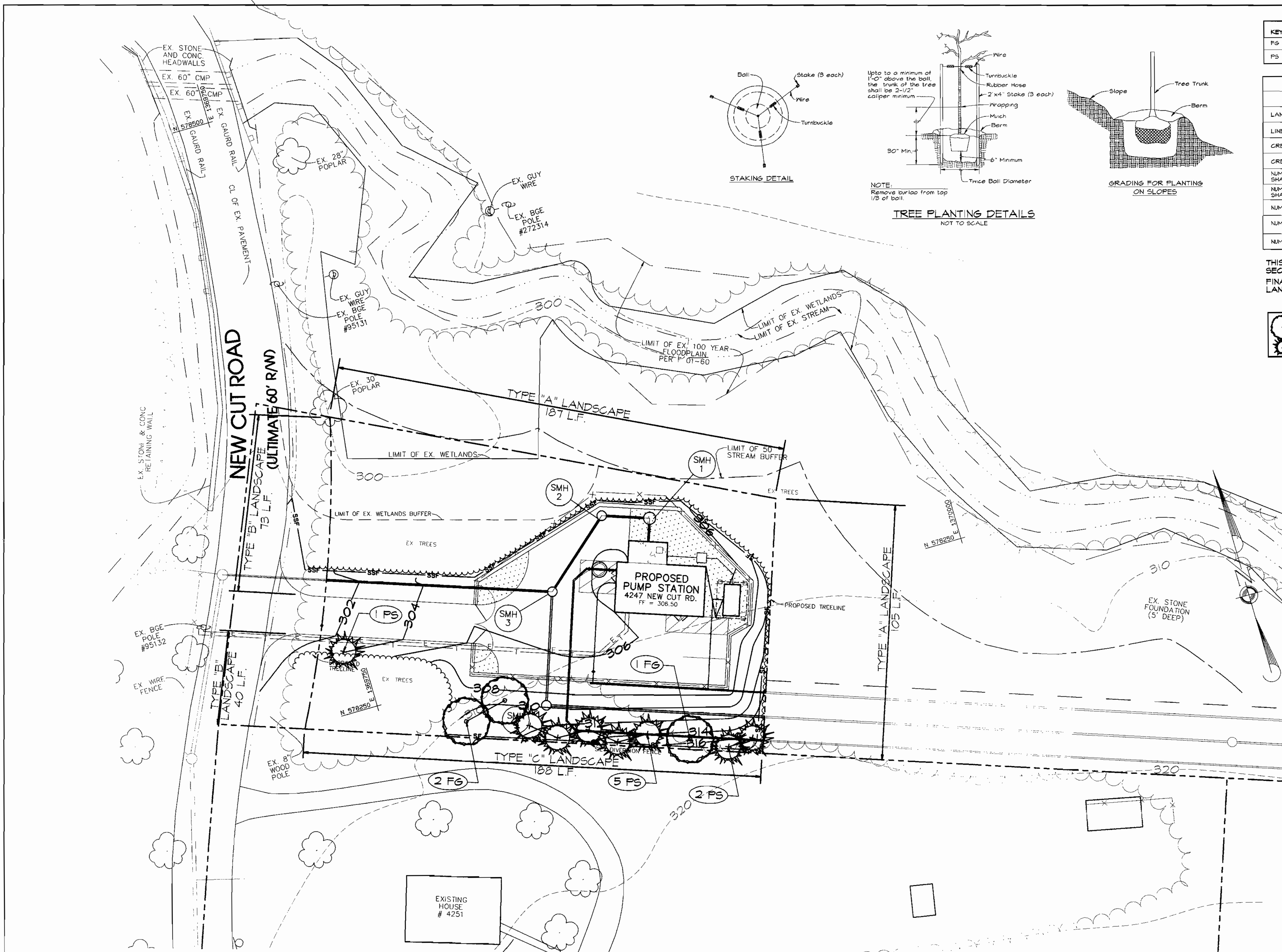
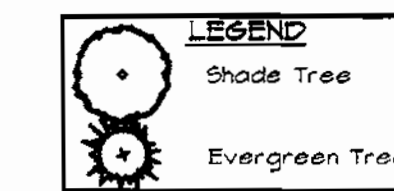
TAX MAP 25 GRID 20 P/O PARCEL 73
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 16, 2000
SDP SHEET 7 OF 8 / UTILITY DESIGN SHEET 7 OF 30

SHEET 7

KEY	BOTANICAL NAME	COMMON NAME	QTY	SIZE	CONTAINER	SPACING
FG	Fagus grandifolia	American Beech	3	2-1/2' - 3' cal.	B 4 B	As Shown
PS	Pinus Strobus	White Pine	8	6' - 8' Ht.	B 4 B	10' o.c.

CATEGORY	SCHEDULE "A"			
	ADJACENT TO ROADWAY	ADJACENT TO PERIMETER PROPERTIES		
LANDSCAPE TYPE	TYPE "B"	TYPE "C"	TYPE "A"	TYPE "A"
LINEAR FEET OF PERIMETER	115'	105'	105'	187'
CREDIT FOR EXISTING VEGETATION	45'	30'	80'	187'
CREDIT FOR WALL, FENCE OR BERM	0'	0'	0'	0'
NUMBER OF PLANTS REQUIRED SHADE TREES	0	3	0	0
NUMBER OF PLANTS PROVIDED SHADE TREES	0	3	0	0
NUMBER OF EVERGREENS REQUIRED	1	7	0	0
NUMBER OF EVERGREENS PROVIDED	1	7	0	0
NUMBER OF SHRUBS PROVIDED	0	0	0	0

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SECURITY, IN THE AMOUNT OF \$2,100.00, FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT.



OWNER/DEVELOPER INFORMATION

CURRENT OWNER OF PARENT TRACT:
HOWARD COUNTY SANITARIUM COMPANY
4100 COLLEGE AVENUE
P.O. BOX 296
ELICOTT CITY, MARYLAND 21041

DEVELOPER OF ADJACENT PROPERTIES AND WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
WORTHINGTON FIELDS, LLC
c/o LAND DESIGN AND DEVELOPMENT, LLC
8000 MAIN STREET
ELICOTT CITY, MARYLAND 21043
ATTN: MR. DONALD R. REUMER, JR.

ULTIMATE OWNER/OPERATOR OF WASTEWATER PUMPING STATION ON OPEN SPACE LOT 1:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DEVELOPMENT ENGINEERING DIVISION
3400 COURTHOUSE DRIVE
ELICOTT CITY, MD 21043
ATTN: MR. HASSAN/PROJECT ENGINEER

McCRONE
ENGINEER & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING • CONSTRUCTION SERVICES
30 REDLEY AVE. #100
ANAPOLIS, MARYLAND 21403
(410) 291-8821

ENGINEER'S CERTIFICATION
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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

STATE OF MARYLAND
PROFESSIONAL ENGINEER
DONALD R. REUMER, JR.
1/22/01

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

MR. DONALD R. REUMER, JR.
1-23-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

4/4/01
4/4/01
2/5/01

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

1-23-01

PROJECT	SECTION/AREA	LOT NO.
HOWARD SANITARIUM CO. - OPEN SPACE LOT 1 NEW CUT ROAD WASTEWATER PUMPING STATION		OPEN SPACE LOT 1
PLAT NO.	BLOCK NO.	ZONE
14594	20	POR
TAX/ZONE	ELEC. DIST.	CENSUS TR.
26	2nd	6027
WATER CODE	SEWER CODE	
G-01	1253100	

LANDSCAPE PLAN, SCHEDULE, AND DETAILS

SITE DEVELOPMENT PLAN FOR HOWARD COUNTY SANITARIUM COMPANY OPEN SPACE LOT 1 / SDP-00-141

AND

UTILITY DESIGN DRAWINGS NEW CUT ROAD WASTEWATER PUMPING STATION CONTRACT 10-3854-D

TAX MAP 25 GRID 20 P/O PARCEL 73
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 16, 2000
SDP SHEET 8 OF 8 / UTILITY DESIGN SHEET 8 OF 30

SHEET 8