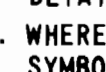
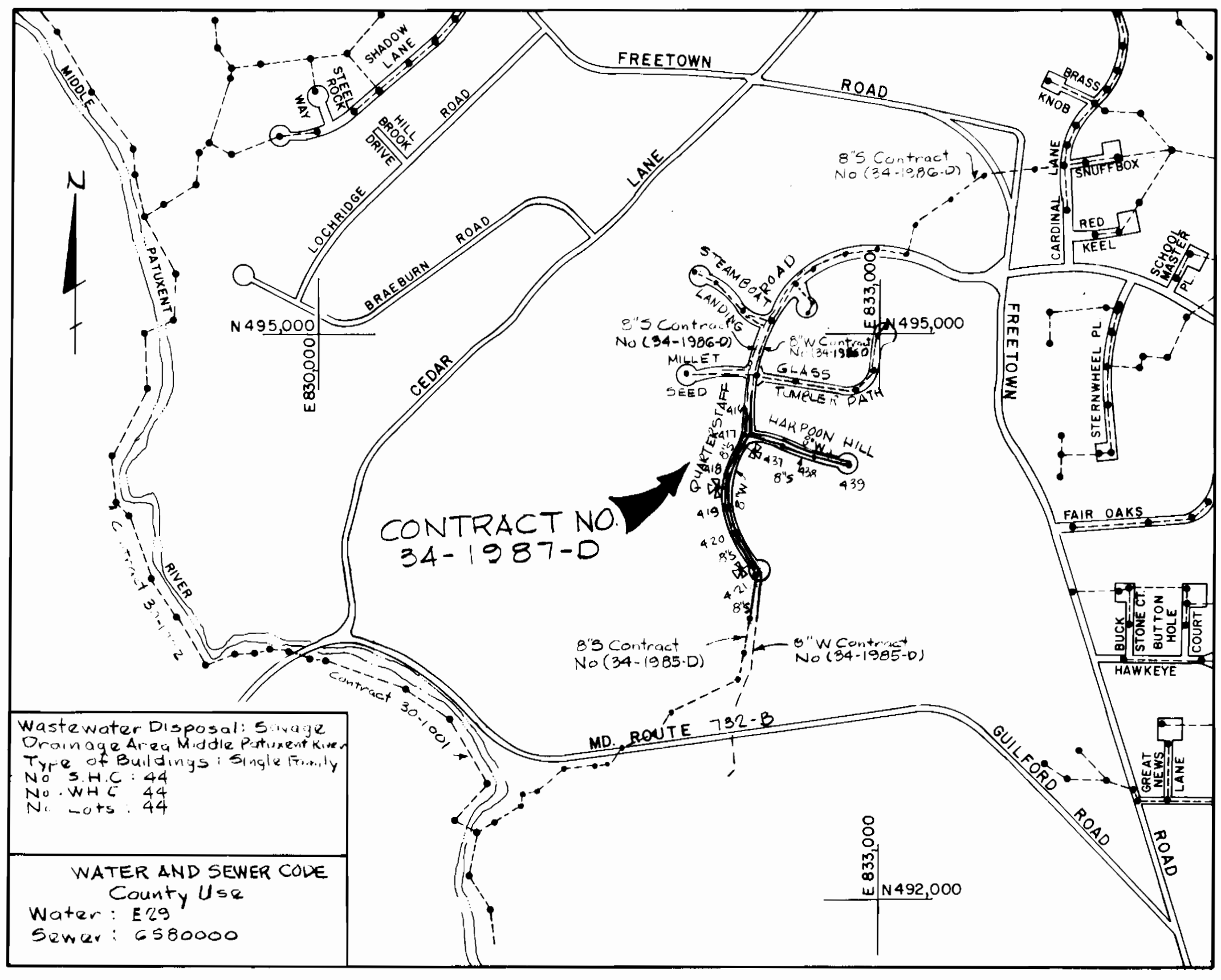


GENERAL NOTES

- 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 STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 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.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USED HOWARD COUNTY DESIGN MANUAL, VOLUME IV, 1989 AMENDMENTS, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES 850-4620
 - BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL - 859-9004
 - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
 - MISS UTILITY - 1 - 559-0100
 - COLONIAL PIPELINE CO. - 795-1390/C&P TELEPHONE CO. - 1 - 800-257-7777
 - BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366.
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-158 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED AND ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., OR P.V.C UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 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 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SEWER HOUSE CONNECTIONS SHALL BE 4" UNLESS OTHERWISE NOTED.



LOCATION MAP
SCALE: 1" = 600'

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Water L.F.	1700	1667	GRIFFIN PIPE CO.
6" Water L.F.	100	925	GRIFFIN PIPE CO.
1" W.H.C. L.F.	225	220	CAMBRIDGE LEE
3/4" W.H.C. L.F.	240	1103	CAMBRIDGE LEE
8" Valve Ea.	3	3	KENNEDY
Fire Hydrant Ea.	4	4	KENNEDY
1 1/2" Dia. Ea.	1	1	FORD - MERT CAMBRIDGE LEE
8" Sewer L.F.	1770	1764	AMERICAN PIPE CO.
Manholes Ea.	9	9	ATLANTIC PRECAST MHS
4" S.H.C. L.F.	1100	1219	AMERICAN PIPE CO.
6" S.H.C. L.F.	100	195	AMERICAN PIPE CO.
4.5H Drip Cam V.F.	60	60	AMERICAN PIPE CO.
6" Valve Ea.	4	4	KENNEDY
2" AIR RELEASE MH	1	1	FORD - MERT CAMBRIDGE LEE

Wastewater Disposal: Sewage
Drainage Area: Middle Potomac River
Type of Buildings: Single Family
No. S.H.C.: 44
No. W.H.C.: 44
No. Lots: 44

WATER AND SEWER CODE
County Use
Water: E29
Sewer: G580000

CONTRACT NO. 34-1987-D
VILLAGE OF HICKORY RIDGE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James M. ... 3/21/90
SIGNATURE U.S. SOIL CONSERVATION SERVICE DATE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District APPROVED
John K. Roberts 3/24/90
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications. F-20-96

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James M. ... 3/22/90
DIRECTOR OF PUBLIC WORKS DATE
Robert ... 3-20-90
CHIEF - BUREAU OF UTILITIES DATE
Ernest ... 3/22/90
CHIEF - LAND DEVELOPMENT DIVISION DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND

DES: T. J. P.				
DRN: S. Y. A.				
CHK: R. B. N.				
DATE: 3/2/90	BY	NO.	REVISION	DATE

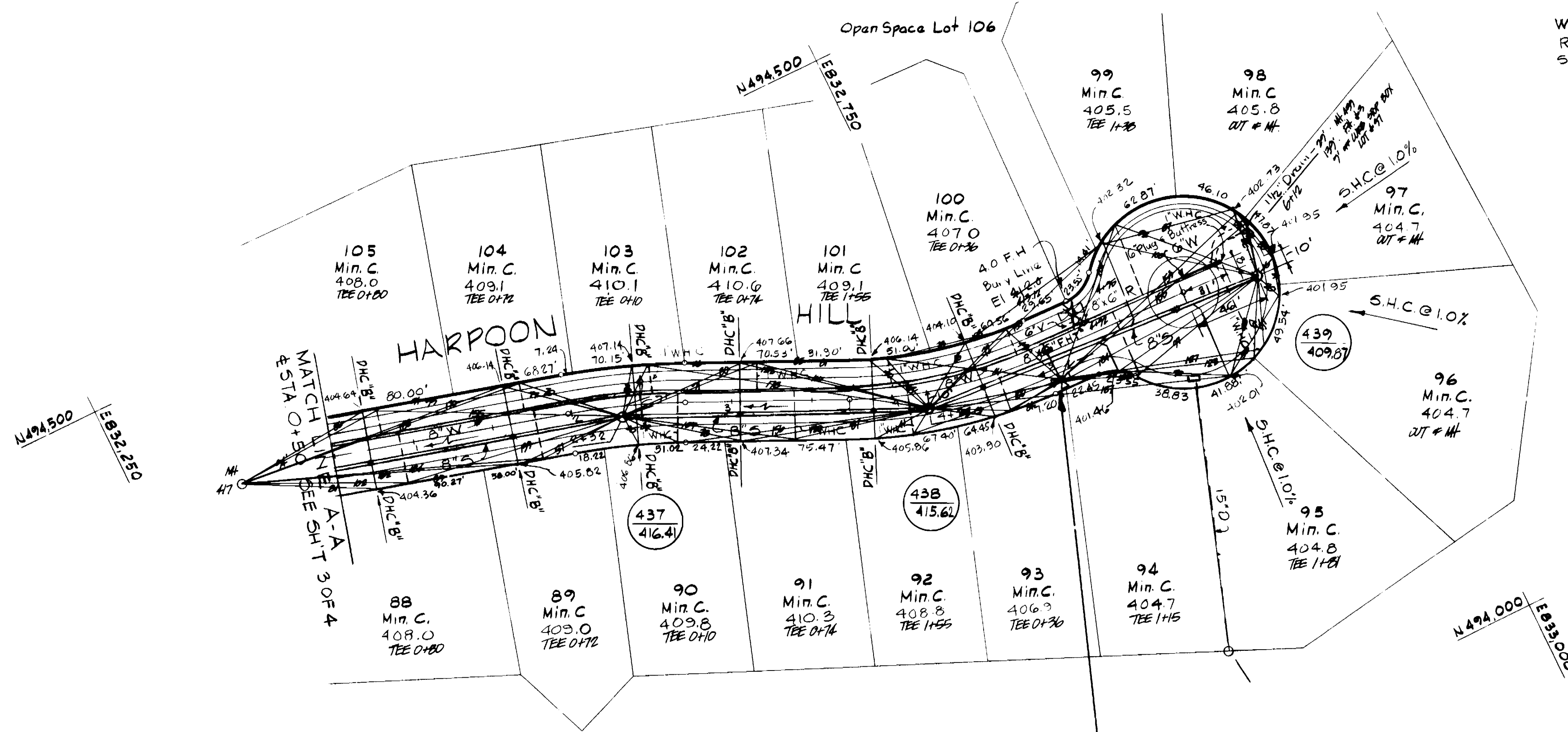
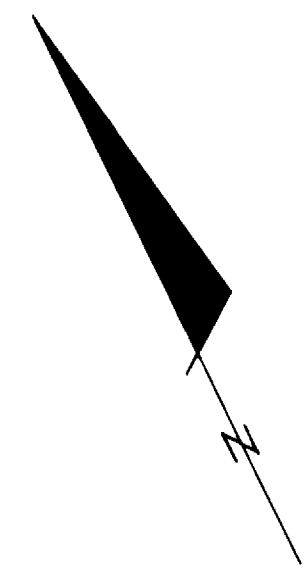
VICINITY MAP
AND
GENERAL NOTES

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 6
ELECTION DIST
CONTRACT NO. 34-1987-D

SCALE AS SHOWN
SHEET 1 OF 4

- BENCH MARKS -

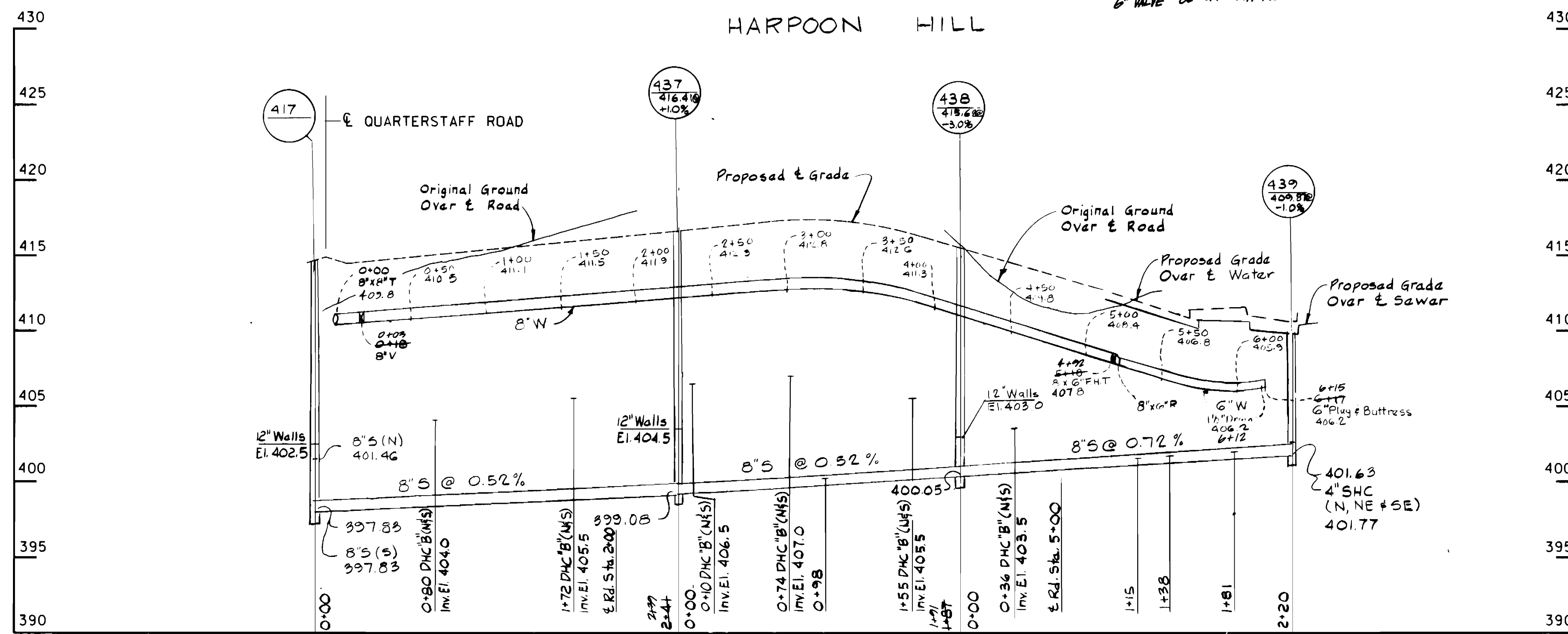
WR#A BM#2200 EL 406.10
R.R Spike on side of 14" Oak tree 65' Right of W
Sta. 22+00 Quarterstaff Road



PLAN

SCALE: 1" = 50'

FR. #4
FR. #4 = 0+00
0+00 = F.H.T.
0+02 = 6" VALVE
0+27 = 6" F.H.
9.75' OFF 10.0' OFFSET
0.00 ON GRADE
6" VALVE 25' OFF F.H. #4
6" VALVE 82' OFF Mt. #4



PROFILES

SCALE: HOR. 1" = 50'
VERT. 1" = 5'

35-494-833

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

WHITMAN, REQUARD
AND ASSOCIATES
ENGINEERS

2315 ST. PAUL ST.
BALTIMORE, MARYLAND

DES: T.J.P.

DRN: S.Y.A.

CHK: R.B.N.

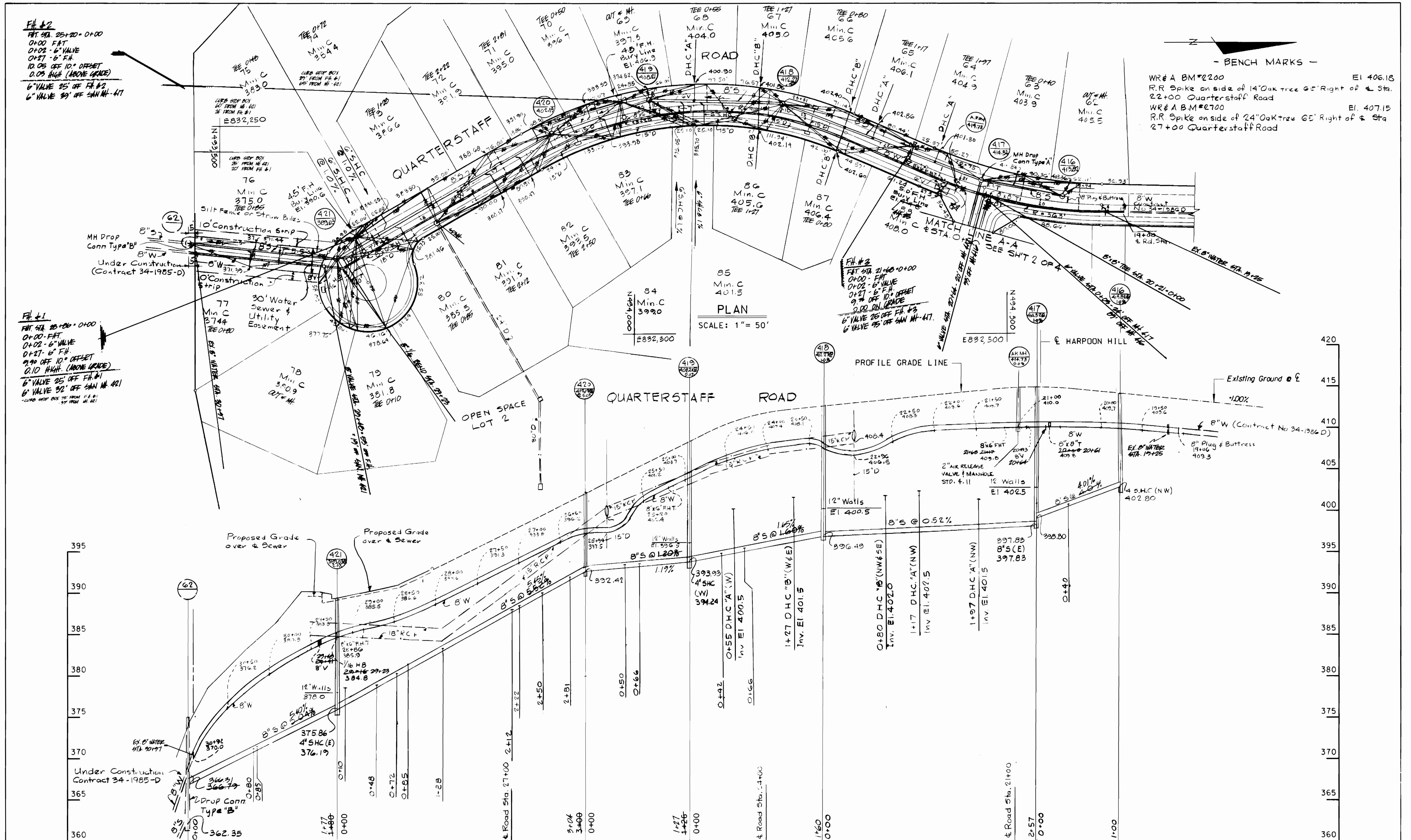
DATE: 3/2/90

PLAN OF
WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 6
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1987-D

SCALE
AS
SHOWN

SHEET
2 OF 4



PROFILES
SCALE: HOR. 1"=50'
VERT. 1"=5'

35-494-833
35-493-833

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3/22/90
3/22/90
3/22/90

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND

DES: T.J.P	
DRN: S.Y.A	
CHK: R.B.N	
DATE: 3/2/90	

PLAN OF
WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 6
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1987-D
SCALE AS SHOWN
SHEET 3 OF 4

STRAW BALE DIKE

STANDARD SYMBOL
SBD-1

CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJOINING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED EARTH FLOW OR DRAINAGE.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

STRAW BALE DIKE

STANDARD DRAWING
SBD-1

Dewatering Basins

WATER RESOURCES ADMINISTRATION

Dewatering Basins

Approved On: *[Signature]*
Chief, Waterway Permits

WPD 1.1

EARTH DIKE

CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. FLOW SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL, AS PER THE CHART BELOW.

TYPE OF DISTURBANCE	CHANNEL WIDTH	DIKE A	DIKE B
1	5-7.0'	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0'	SEED AND STRAW MULCH	SEED USING JUTE OR SODS; 2" STONE
3	5.1-8.0'	SEED WITH JUTE, OR SODS; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20'	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

EARTH DIKE

STANDARD DRAWING
ED-1

RIP-RAP DETAIL

Notes:

- Erosion Control Fabric shall be Poly-Filter-X as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 West 66th Street, Cincinnati, Ohio. Laurel Erosion Control Cloth as manufactured by Laurel Plastic, Inc., Madison, Wisconsin, is of equal quality.
- Rip-Rap shall be placed 6" each side of center or as shown. Any disturbance to stream banks beyond these limits shall be protected with Rip-Rap at Contractor's expense.
- Gabions may be used in lieu of Rip-Rap.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

EARTH DIKE

STANDARD DRAWING
ED-1

TEMPORARY ACCESS CULVERT

Construction Specifications

- Restrictions** - No construction or removal of a temporary access culvert will be permitted between October 1 through April 30 for all Class III and Class IV Trout Waters or between March 15 through June 15 for non-trout waterways.
- Culvert Strength** - All culverts shall be strong enough to support their cross sectional area under maximum expected loads.
- Culvert Size** - The size of the culvert pipe shall be the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills. If a channel width exceeds 3 feet, additional pipes may be used until the cross sectional area of the pipes is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that may be used is a 12" diameter pipe.
- Culvert Length** - The culvert(s) shall extend a minimum of one foot beyond the upstream and downstream toe of the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length.
- Filter Cloth** - Filter cloth shall be placed on the streambed and streambanks prior to placement of the pipe culvert(s) and aggregate. The filter cloth shall cover the streambed and extend a minimum six inches and a maximum one foot beyond the end of the culvert and bedding material. Filter cloth reduces settlement and improves stream stability.
- Culvert Placement** - The invert elevation of the culvert shall be installed on the natural streambed grade to minimize interference with fish migration (free passage of fish).
- Culvert Protection** - The culvert(s) shall be covered with a minimum of one foot of aggregate. If multiple culverts are used they shall be separated by at least 12" of compacted aggregate fill. At a minimum, the bedding and fill material used in the construction of the temporary access culvert crossings shall conform with the aggregate requirements cited in Section 1.8.1. above.
- Stabilization** - All areas disturbed during culvert installation shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for "Critical Area Stabilization With Permanent Seeding."

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

Culvert Pipe with Access Road

Approved On: *[Signature]*
Chief, Waterway Permits

WPD 2.1

SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN MUDGAGES DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

SILT FENCE

STANDARD DRAWING
SF-1

STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MD.

STABILIZED CONSTRUCTION ENTRANCE

Standard Drawing
SCE-1

CONSTRUCTION SEQUENCE SEDIMENT CONTROL PROCEDURES

(FOR AREAS NOT PROTECTED BY ROAD CONSTRUCTION SEDIMENT CONTROL DEVICES)

- Obtain Sediment Control Permit.
- Construct continuous sediment barrier for all Disturbed Areas not protected by sediment traps.
- Clear, grub and strip as required. Protect stream from erosion of stored top soil, separate top soil from subsoil.
- Construct pipelines.
- All excavated material shall be stockpiled on high side of trench.
- Restore erosion control structures disturbed by sewer and water construction.
- Stabilize disturbed area as construction progresses with temporary seeding and mulching (or permanent restoration).
- Complete permanent restoration.
- All sediment control devices shall remain in service until removal is approved by the SCS inspector.
- Restoration (temporary or permanent) of an area between manholes or 400' watermain section shall follow within one week of pipe laying in this area.
- Disturbed Areas shall be restricted to 20' Easements.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

Culvert Pipe with Access Road

Approved On: *[Signature]*
Chief, Waterway Permits

WPD 2.1

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U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

Culvert Pipe with Access Road

Approved On: *[Signature]*
Chief, Waterway Permits

WPD 2.1

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 3-22-90
DIRECTOR OF PUBLIC WORKS - DATE

[Signature] 3-20-90
CHIEF - BUREAU OF UTILITIES - DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS

2315 ST PAUL ST
BALTIMORE, MARYLAND

[Signature] 3/22/90
DATE

SEDIMENT CONTROL
DETAILS

60' SCALE MAP NO. 35 BLOCK NO.

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 6
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1987-D

CAPITAL PROJECT

SCALE AS SHOWN
SHEET 4 OF 4