

# US ROUTE 40 AT COVENTRY COURT

## 8-INCH WATER MAIN

### CAPITAL PROJECT W-8224

## CONTRACT NO. 44-3732

QUANTITIES				
ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIMATED	AS BUILT		
8" WATER	530 L.F.		D.I.P.	
16" x 8" TAPPING SLEEVE & VALVE ASSEMBLY	1 EA.		AWWA C-500 & RESILIENT SEAT GATE VALVE	
6" WATER	6 L.F.		D.I.P.	
6" VALVE	1 EA.		RESILIENT SEAT GATE VALE	
FIRE HYDRANT	1 EA.		AWWA C-502	
1" WATER	20 L.F.		TYPE K COPPER TUBE	
1" CURB STOP	2 EA.		AWWA C-800	

**NOTE:**  
 \*SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4, ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS.\*

UTILITY CONTRACTOR:

**ENGINEER'S CERTIFICATION**

I 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 HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John J. Smith* DATE 1-12-99  
 WALLACE, MONTGOMERY & ASSOCIATES  
 110 WEST ROAD - SUITE 345  
 TOWSON, MARYLAND 21204  
 (410) 494-9093

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

*Carol Simmons* 1/27/99  
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

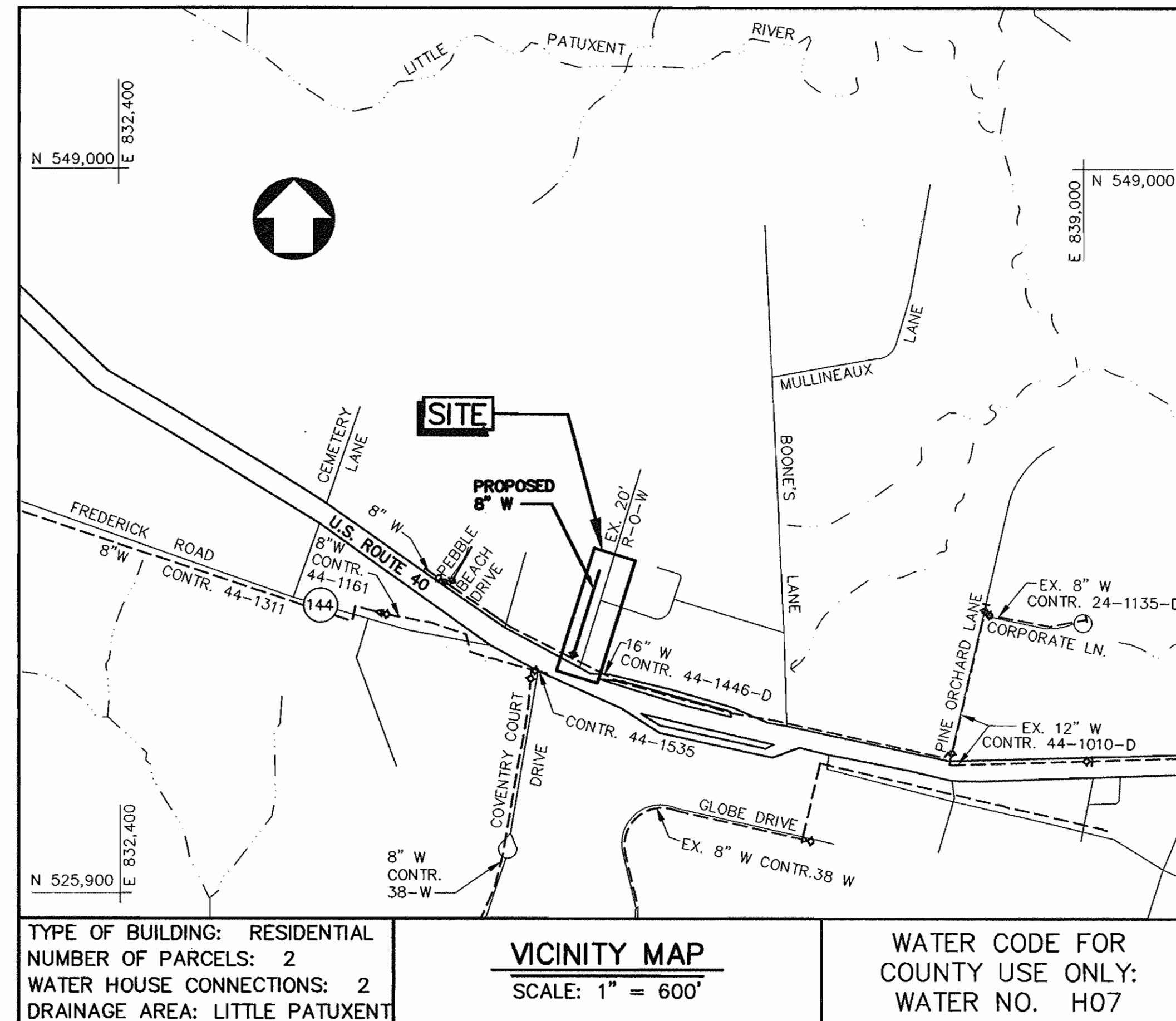
THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John P. Roberts* 1/27/99  
 APPROVED DATE  
 HOWARD SOIL CONSERVATION DISTRICT

**DEVELOPER'S CERTIFICATION**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 COUNTY SOIL CONSERVATION DISTRICT."

*John J. Smith* 1/13/99  
 SIGNATURE OF DEVELOPER DATE  
 PRINT NAME BELOW SIGNATURE



TYPE OF BUILDING: RESIDENTIAL  
 NUMBER OF PARCELS: 2  
 WATER HOUSE CONNECTIONS: 2  
 DRAINAGE AREA: LITTLE PATUXENT

**VICINITY MAP**  
 SCALE: 1" = 600'

WATER CODE FOR COUNTY USE ONLY:  
 WATER NO. H07

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE
3	SEDIMENT CONTROL NOTES & DETAILS

**GENERAL NOTES:**

**PART I**

1. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. 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, NAD 83.
3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 THE BRACING OF ADDITIONAL 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.
6. 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.
7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [ ] AT THE LOCATIONS OF THE TEST PITS. 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. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T.....1-800-526-2000  
 BGE(CONTRACTOR SERVICES).....410-850-4620  
 BGE(UNDERGROUND DAMAGE CONTROL).....410-787-9068  
 BUREAU OF UTILITIES.....410-313-4900  
 BELL ATLANTIC MARYLAND, INC.....1-800-621-9900  
 COLONIAL PIPELINE CO.....410-795-1390  
 MISS UTILITY .....1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION.....410-531-5533

9. 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.
10. 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.
11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 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 DPW REQUIREMENTS PER SECTION 18.114(d) OF THE HOWARD COUNTY CODE.

**PART II WATER**

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
4. 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>John J. Smith</i> 1/20/99 DIRECTOR OF PUBLIC WORKS DATE <i>John J. Smith</i> 1-20-99 CHIEF, BUREAU OF UTILITIES DATE	WALLACE, MONTGOMERY & ASSOCIATES CIVIL AND STRUCTURAL ENGINEERS 110 WEST ROAD TOWSON, MARYLAND 21204 <i>John J. Smith</i> 1/13/99 CHIEF, BUREAU OF ENGINEERING DATE <i>John J. Smith</i> 1-13-99 CHIEF, UTILITY DESIGN DIVISION DATE		DES: LAF DRN: DED CHK: JJS DATE: JAN. 1999	<b>TITLE SHEET</b>	US ROUTE 40 AT COVENTRY COURT WATER MAIN CAPITAL PROJECT W-8224 CONTRACT NO. 44-3732 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
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16"x 8" TAPPING SLEEVE  
AND VALVE TIE INTO  
EX. 16" WATER CONTRACT  
NO.44-1446-D

JOHN H. KRAMER &  
MYRTLE R. KRAMER  
1091/340  
T.M.#24 P.#74  
"KRAMER CAR CARE"

RICHARD E. BARTH  
917/641  
T.M.#24 P.#1002

PROP. 1" WHC  
AND CURB STOP  
STD. DETAIL W3.21

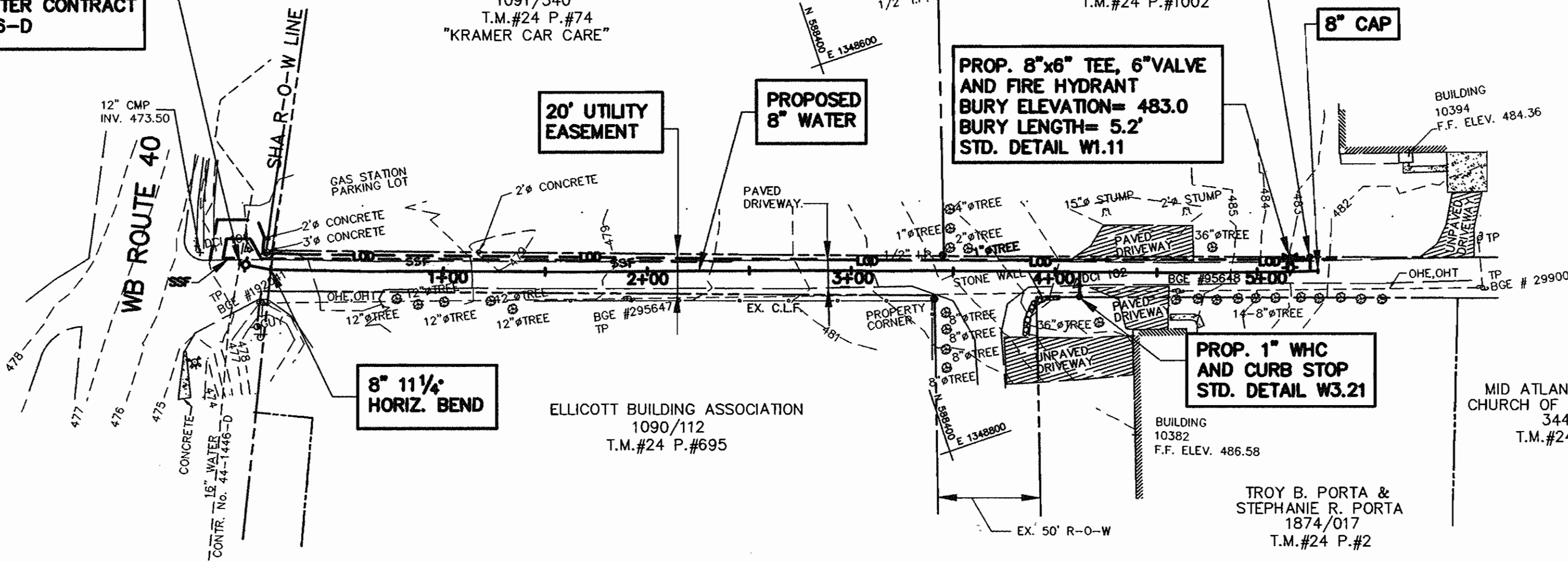
PROP. 8"x6" TEE, 6" VALVE  
AND FIRE HYDRANT  
BURY ELEVATION= 483.0  
BURY LENGTH= 5.2'  
STD. DETAIL W1.11

PROP. 1" WHC  
AND CURB STOP  
STD. DETAIL W3.21

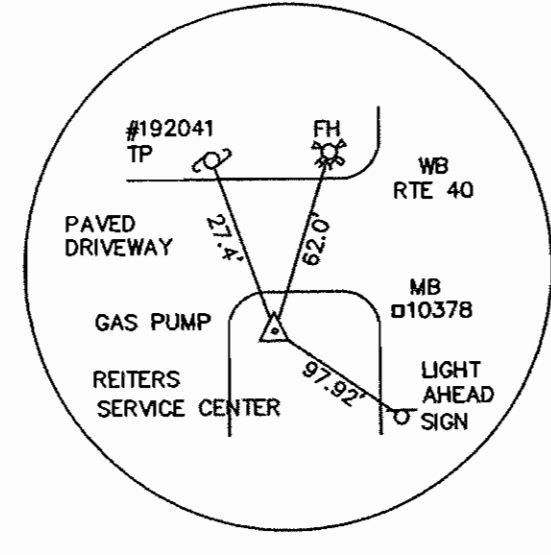
MID ATLANTIC DISTRICT  
CHURCH OF THE BRETHREN  
344/237  
T.M.#24 P.#758

TROY B. PORTA &  
STEPHANIE R. PORTA  
1874/017  
T.M.#24 P.#2

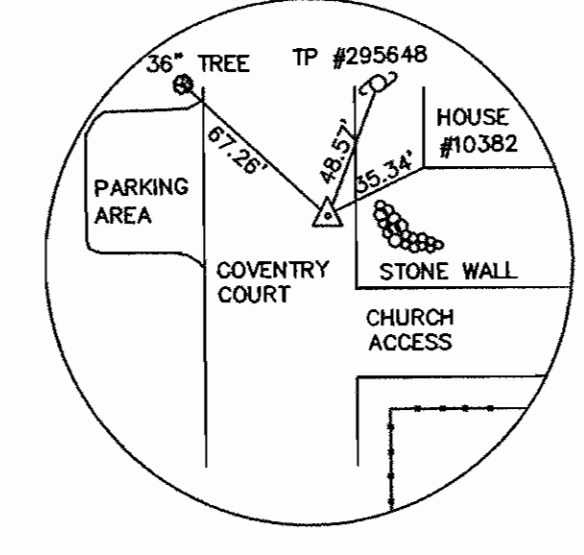
ELLCOTT BUILDING ASSOCIATION  
1090/112  
T.M.#24 P.#695



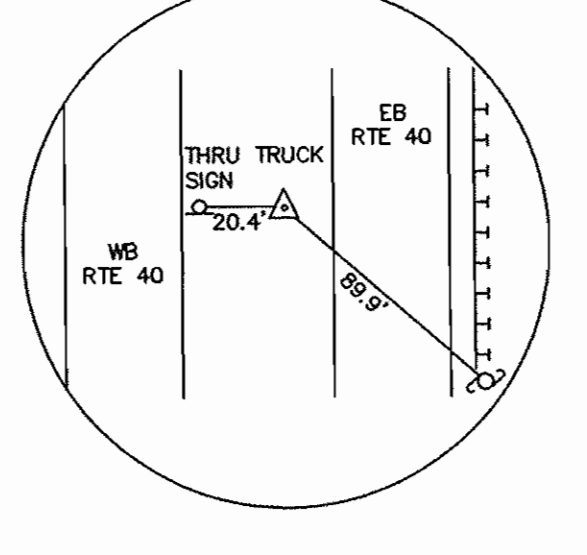
**PLAN**  
SCALE: 1"=50'



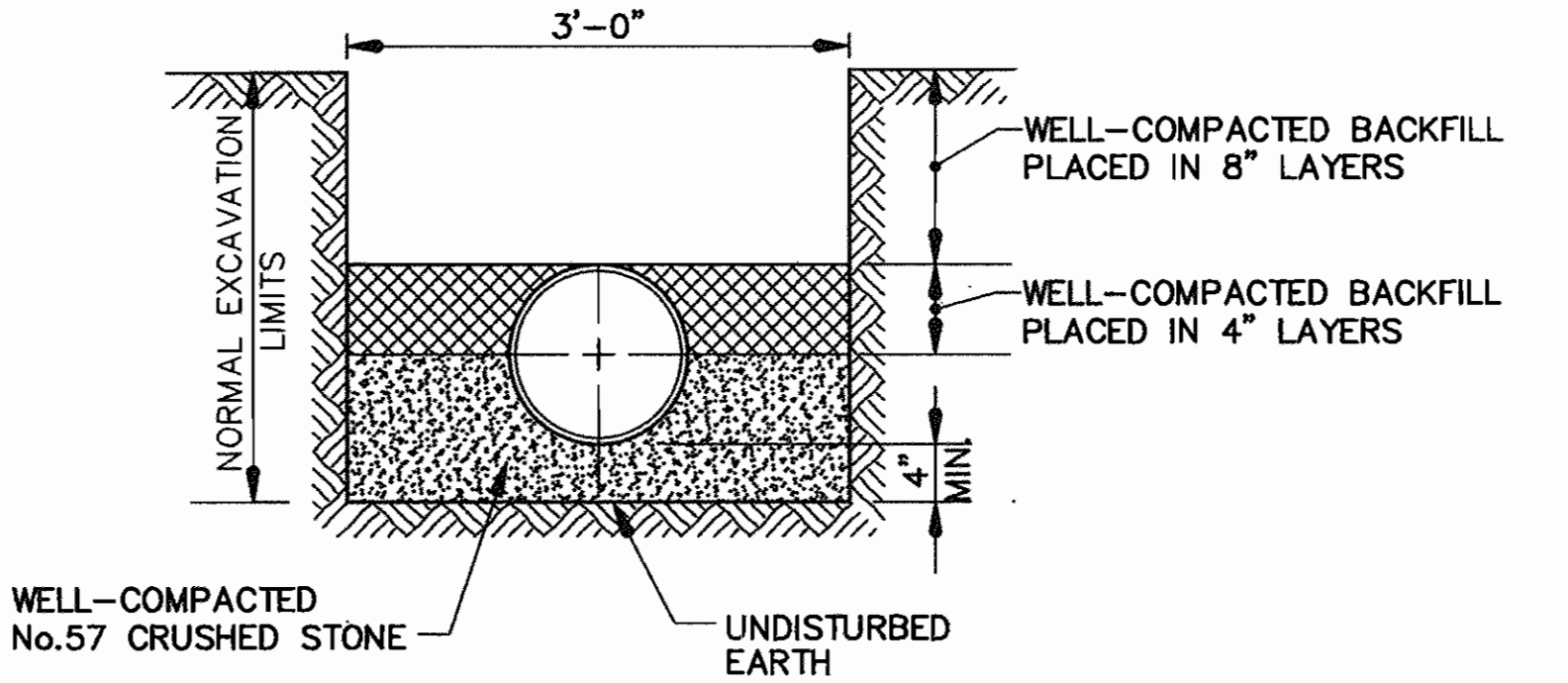
DCI 101  
REBAR & CAP  
ELEVATION: 477.04  
N 588105.7222  
E 1348596.1912



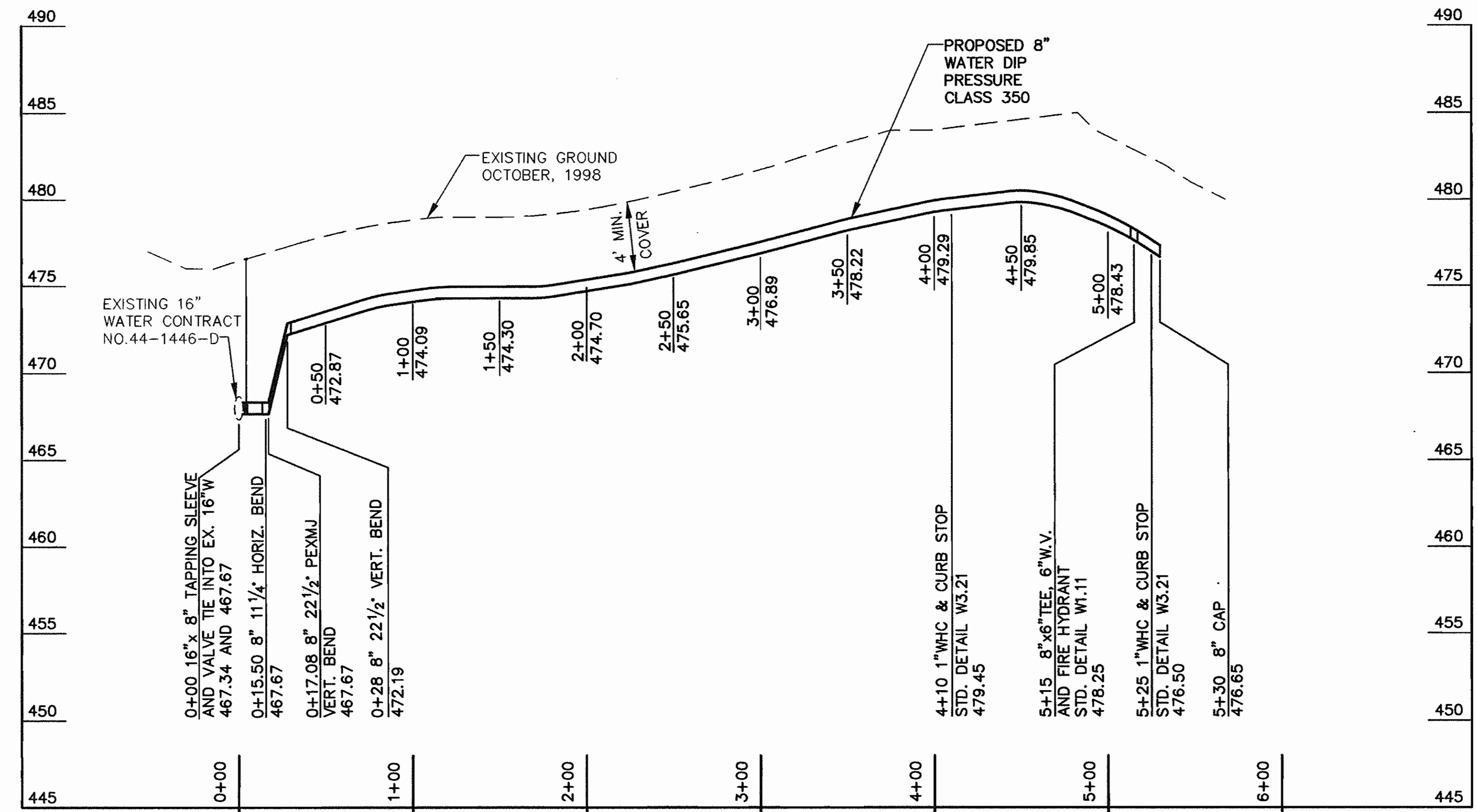
DCI 102  
P.K.NAIL @ EDGE OF ROAD  
ELEVATION: 485.26  
N 588485.5598  
E 1348742.0695



DCI 100  
REBAR & CAP  
ELEVATION: 478.16  
N 588327.7394  
E 1348038.2408



**TRENCH DETAIL**  
NOT TO SCALE



**PROFILE**  
SCALE: 1"=50' HORIZONTAL  
1"=5' VERTICAL

NOTE:  
ALL HORIZONTAL AND VERTICAL BENDS, CAP AND TEES SHALL  
BE BUTTRESSED OR ANCHORED IN ACCORDANCE WITH STANDARD  
DETAILS W2.21, W2.22 AND W2.23.

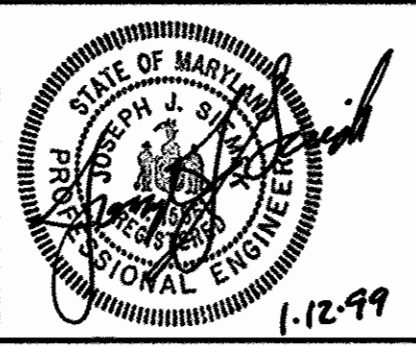
STATION	DESCRIPTION	NORTH	EAST
0+00	16"x 8" TAPPING SLEEVE	588099.26	1348802.09
0+15.50	8" 11 1/4" HORIZ. BEND	588112.77	1348809.79
5+30	8" CAP	588599.47	1348773.36

STATION	TO STATION	LENGTH	MATERIAL
0+00	5+30	530 FEET	BITUMINOUS PAVING
4+10	0' TO 7' RT.	7 FEET	BITUMINOUS PAVING
4+10	7' TO 12' RT.	5 FEET	SEEDING
5+15	0' TO 5' LT.	5 FEET	BITUMINOUS PAVING
5+15	5' TO 7' LT.	2 FEET	SEEDING
5+25	0' TO 5' LT.	5 FEET	BITUMINOUS PAVING
5+25	5' TO 7' LT.	2 FEET	SEEDING

RESTORATION NOTES:  
1. SAW CUT THE EXISTING BITUMINOUS PAVING.  
2. REPAIR BITUMINOUS PAVING IN ACCORDANCE  
WITH STANDARD DETAIL G4.01.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
1/20/99  
1-13-99

WALLACE, MONTGOMERY & ASSOCIATES  
CIVIL AND STRUCTURAL ENGINEERS  
110 WEST ROAD  
TOWSON, MARYLAND 21204



DES: LAF			
DRN: MEK			
CHK: JJS			
DATE: JAN. 1999	BY:	NO.:	REVISION:

PLAN AND PROFILE  
600' SCALE MAP NO. W-24 BLOCK NO.

US ROUTE 40 AT COVENTRY COURT WATER MAIN  
CAPITAL PROJECT W-8224  
CONTRACT NO. 44-3732  
ELECTION DISTRICT NO. 2  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 3

**STANDARD SEDIMENT CONTROL NOTES**

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

**SOIL AMENDMENTS** - APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.).

**SEEDING** - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

**MULCHING** - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

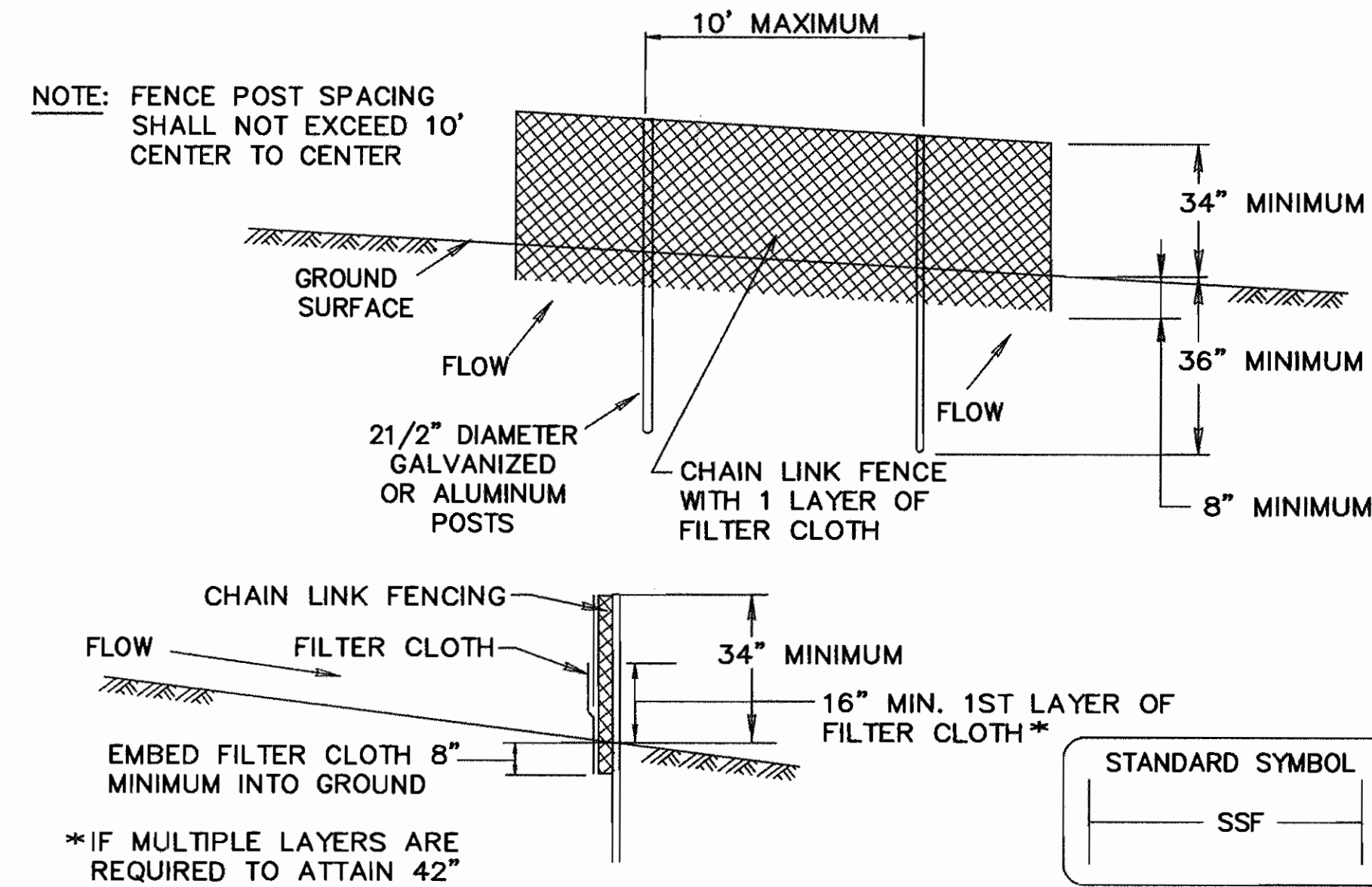
**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) **PREFERRED** - APPLY 2 TONS PER ACRES 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 DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- 2) **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 DISK INTO UPPER THREE INCHES OF SOIL.

**SEEDING** - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE 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.



**CONSTRUCTION SPECIFICATIONS**

1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.
2. 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.
3. 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.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT
7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: MSMT 509
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: MSMT 509
FLOW RATE	0.3 GAL/FT <sup>2</sup> /MINUTE (MAX.)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN.)	TEST: MSMT 322

**SUPER SILT FENCE**

NOT TO SCALE

**SEQUENCE OF CONSTRUCTION**

1. OBTAIN A GRADING PERMIT.
2. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (410-313-1870) PRIOR TO STARTING DATE. (4 DAYS)
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. (2 DAYS)
4. EXCAVATE AND INSTALL PROPOSED 8" WATER MAIN (14 DAYS)
5. RESTORE TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS WITH TEMPORARY PAVING HOWARD COUNTY STANDARD SPECIFICATION. (2 DAYS)
6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTION, REMOVE SEDIMENT CONTROL DEVICES. (1 DAY)
7. INSTALL PERMANENT PAVING PATCH OVER TRENCH. (2 DAYS)

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

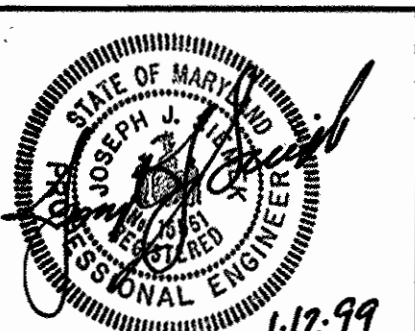
*James J. Shaw* 1/20/99  
DIRECTOR OF PUBLIC WORKS DATE

*Richard J. Spoon* 1/13/99  
CHIEF, BUREAU OF ENGINEERING DATE

*Robert M. Bainger* 1-20-99  
CHIEF, BUREAU OF UTILITIES DATE

*O. J. ...* 1-13-99  
CHIEF, UTILITY DESIGN DIVISION DATE

**WALLACE, MONTGOMERY & ASSOCIATES**  
CIVIL AND STRUCTURAL ENGINEERS  
110 WEST ROAD  
TOWSON, MARYLAND 21204



DES: LAF			
DRN: DED			
CHK: JJS			
DATE: JAN. 1999	BY	NO.	REVISION

**SEDIMENT CONTROL NOTES & DETAILS**

600' SCALE MAP NO. W-24 BLOCK NO.     

US ROUTE 40 AT COVENTRY COURT WATER MAIN  
CAPITAL PROJECT W-8224  
CONTRACT NO. 44-3732  
ELECTION DISTRICT NO. 2  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

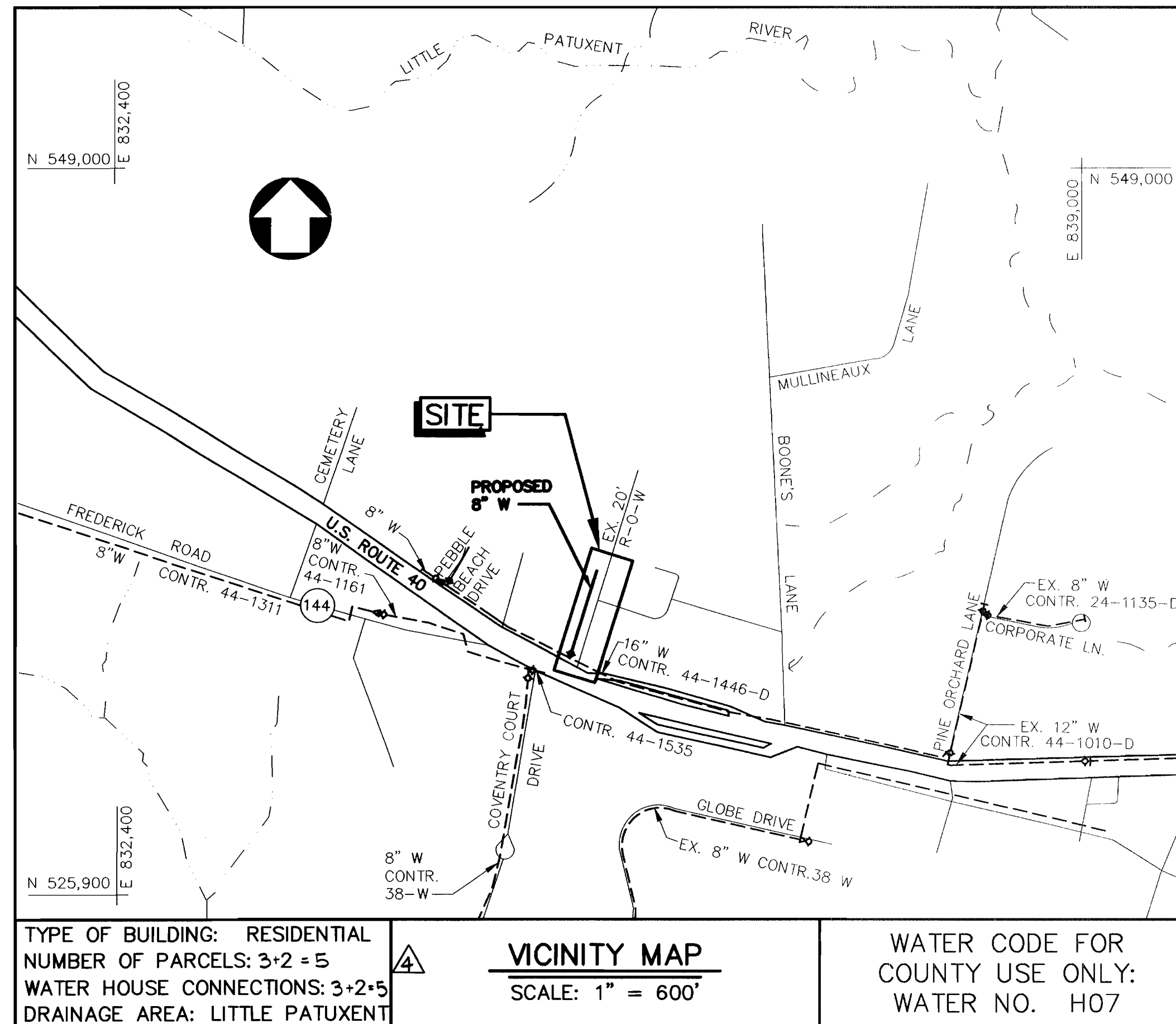
SHEET 3 OF 3

# US ROUTE 40 AT COVENTRY COURT

## 8-INCH WATER MAIN

CAPITAL PROJECT W-8224/8698

CONTRACT NO. 44-3732



TYPE OF BUILDING: RESIDENTIAL  
 NUMBER OF PARCELS: 3+2=5  
 WATER HOUSE CONNECTIONS: 3+2+5  
 DRAINAGE AREA: LITTLE PATUXENT

VICINITY MAP  
 SCALE: 1" = 600'

WATER CODE FOR COUNTY USE ONLY:  
 WATER NO. H07

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SUPPLEMENTAL DESIGN QUANTITIES				
ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
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8" WATER	200 L.F.	200 L.F.	DIP	U.S. FILTER/ATLANTIC STATES
1" WATER	30 L.F.	30 L.F.	TYPE K COPPER TUBE	U.S. FILTER/CAMBRIDGE LEE
1" CURB STOP	2 EA.	2	AWWA C-800	U.S. FILTER/MUELLER CO.
BLOW-OFF VALVE & VAULT	1 EA.	1		U.S. FILTER/JOHN C. KUPFERLE

QUANTITIES				
ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIMATED	AS BUILT		
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6" WATER	6 L.F.	6 L.F.	D.I.P.	" " "
6" VALVE	1 EA.	1 EA.	RESILIENT SEAT GATE VALE	" " "
FIRE HYDRANT	1 EA.	1 EA.	AWWA C-502	" " "
1" WATER	20 L.F.	20 L.F.	TYPE K COPPER TUBE	" " "
1" CURB STOP	2 EA.	3 EA.	AWWA C-800	" " "

NOTE:  
 "SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4, ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS."

UTILITY CONTRACTOR: W. F. WILSON & SONS, INC.

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 I 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 HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 DATE 1-12-99  
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 TOWSON, MARYLAND 21204  
 (410) 494-9093

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
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GENERAL NOTES:

PART I

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. 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, NAD 83.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 29.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 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.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [ ] AT THE LOCATIONS OF THE TEST PITS. 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:

- AT&T.....1-800-526-2000
- BGE(CONTRACTOR SERVICES).....410-850-4620
- BGE(UNDERGROUND DAMAGE CONTROL).....410-787-9068
- BUREAU OF UTILITIES.....410-313-4900
- BELL ATLANTIC MARYLAND, INC.....1-800-621-9900
- COLONIAL PIPELINE CO.....410-795-1390
- MISS UTILITY.....1-800-257-7777
- STATE HIGHWAY ADMINISTRATION.....410-531-5533

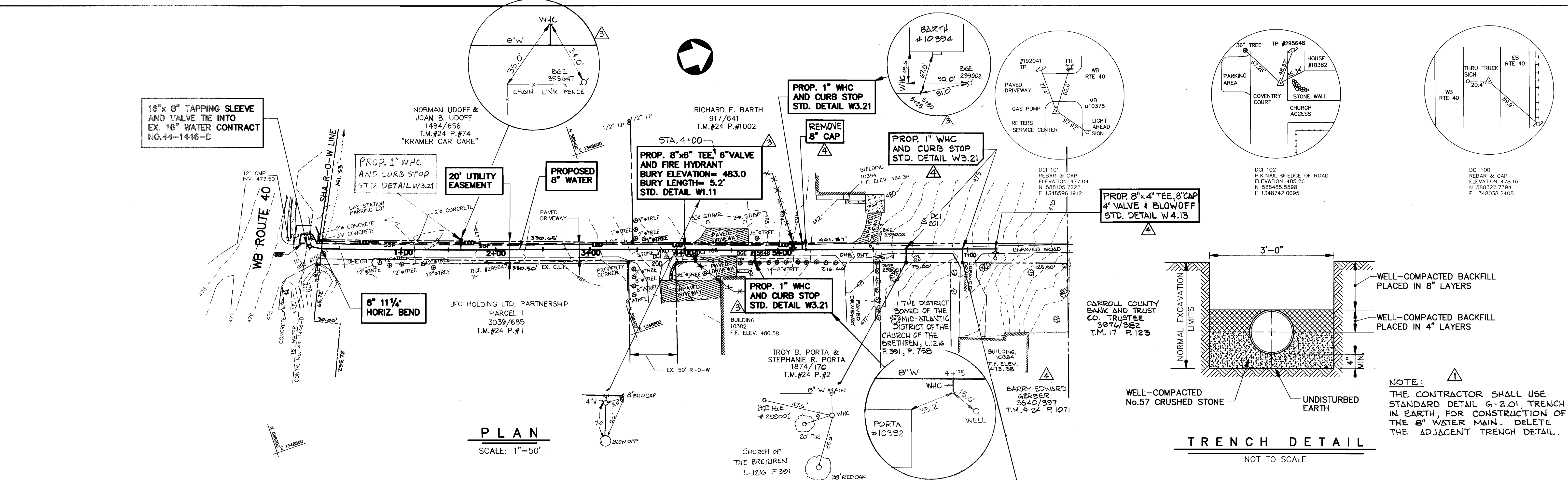
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 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 DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART II WATER

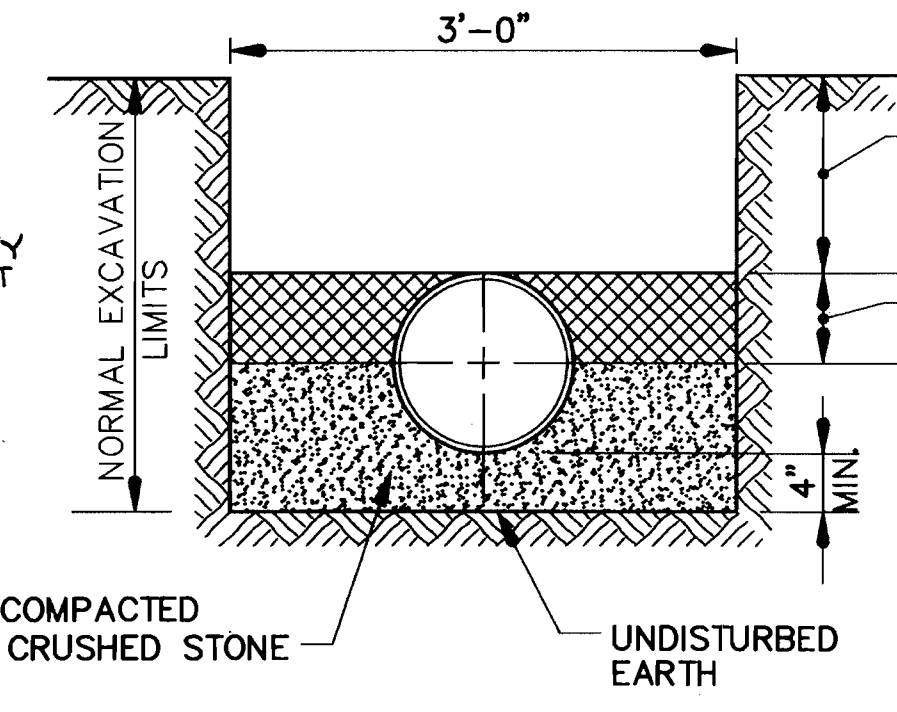
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: [Signature] 1/20/99 Chief, Bureau of Engineers: [Signature] 1/13/99 Chief, Bureau of Utilities: [Signature] 1-20-99 Chief, Utility Design Division: [Signature] 1-13-99	WALLACE, MONTGOMERY & ASSOCIATES CIVIL AND STRUCTURAL ENGINEERS 110 WEST ROAD TOWSON, MARYLAND 21204 [Professional Seal] 1-12-99	DES: LAF DRN: DED CHK: JJS DATE: JAN. 1999	LAF [ ] AS-BUILT REVISIONS 10/99 LAF [ ] SUPPLEMENTAL DESIGN 3/00 K.C.I. [ ] AS-BUILT CONDITIONS ADDED TO PLAN 2/01	TITLE SHEET 600' SCALE MAP NO. W-24 BLOCK NO.	US ROUTE 40 AT COVENTRY COURT WATER MAIN CAPITAL PROJECT W-8224/8698 CONTRACT NO. 44-3732 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
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16" x 8" TAPPING SLEEVE AND VALVE TIE INTO EX. 16" WATER CONTRACT NO. 44-1446-D

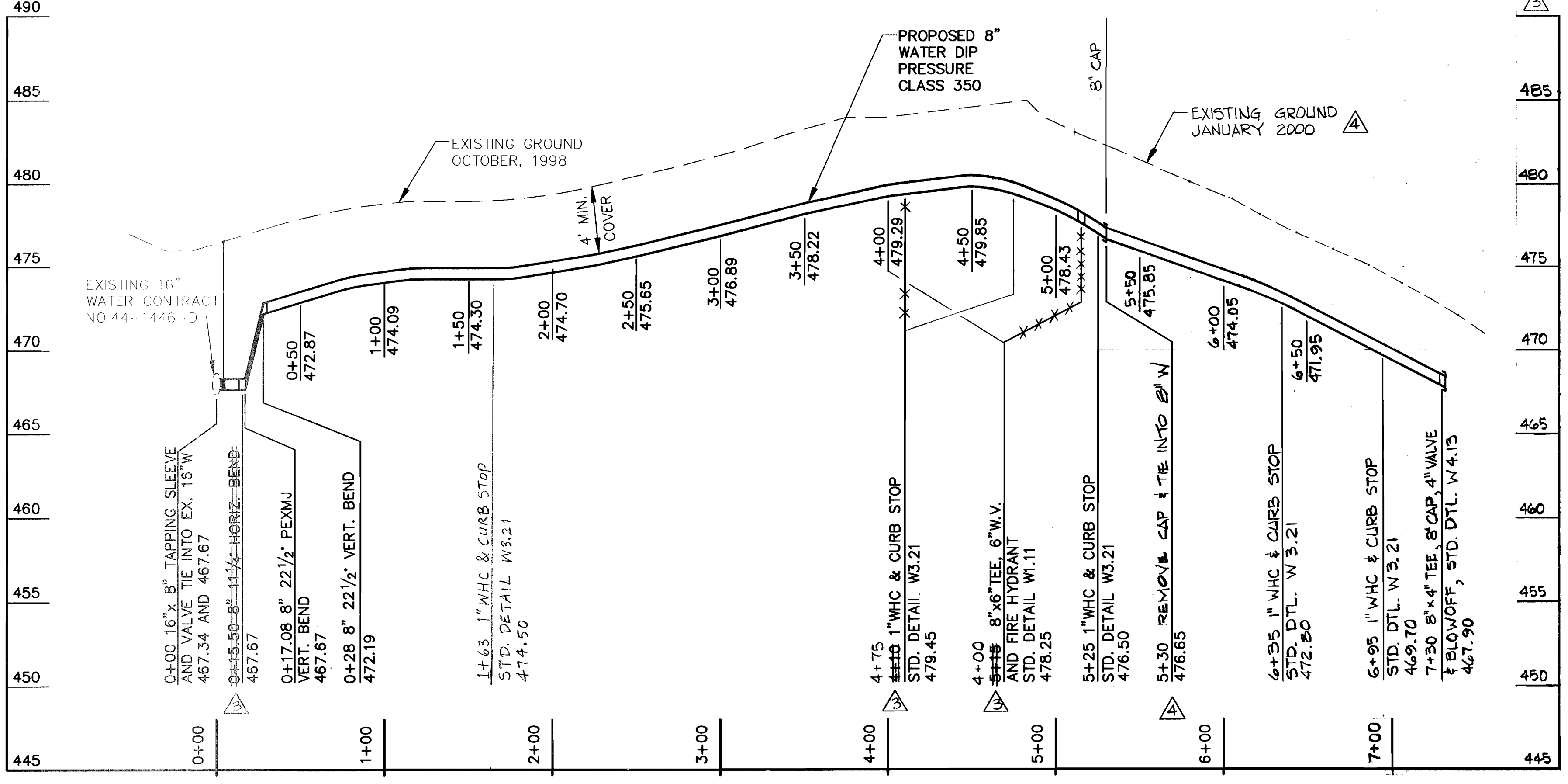


**PLAN**  
SCALE: 1"=50'



**TRENCH DETAIL**  
NOT TO SCALE

**NOTE:**  
THE CONTRACTOR SHALL USE STANDARD DETAIL G-2.01, TRENCH IN EARTH, FOR CONSTRUCTION OF THE 8" WATER MAIN. DELETE THE ADJACENT TRENCH DETAIL.



**PROFILE**  
SCALE: 1"=50' HORIZONTAL  
1"=5' VERTICAL

**NOTE:**  
ALL HORIZONTAL AND VERTICAL BENDS, CAP AND TEES SHALL BE BUTTRESSED OR ANCHORED IN ACCORDANCE WITH STANDARD DETAILS W2.21, W2.22 AND W2.23.

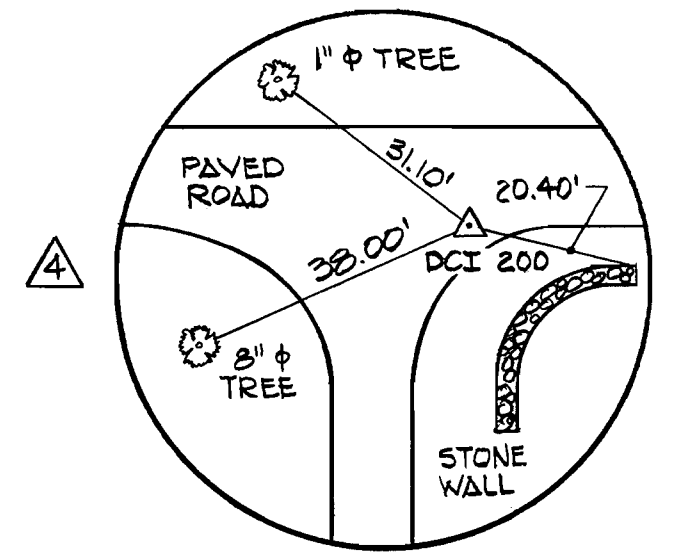
**STAKEOUT TABLE 8" WATER MAIN**

STATION	DESCRIPTION	NORTH	EAST
0+00	16" x 8" TAPPING SLEEVE	588099.26	1348602.09
0+15.50	8" 11 1/2" HORIZ. BEND	588112.77	1348609.79
5+30	8" CAP	588599.47	1348773.36
7+30	8" TEE WITH CAP	588790.9712	1348836.1838

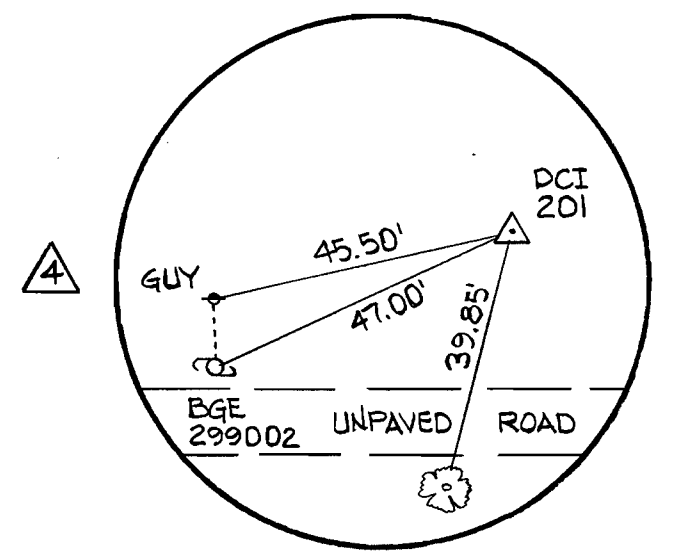
**RESTORATION SCHEDULE**

STATION	TO STATION	LENGTH	MATERIAL
0+00	5+30	530 FEET	BITUMINOUS PAVING
4+10	0' TO 7' RT.	7 FEET	BITUMINOUS PAVING
4+10	7' TO 12' RT.	5 FEET	SEEDING
5+15	0' TO 5' LT.	5 FEET	BITUMINOUS PAVING
5+15	5' TO 7' LT.	2 FEET	SEEDING
5+25	0' TO 5' LT.	5 FEET	BITUMINOUS PAVING
5+25	5' TO 7' LT.	2 FEET	SEEDING
5+30	6+00	70 FEET	BITUMINOUS PAVING
6+00	7+30	130 FEET	GRAVEL
6+95	0' TO 15' RT.	15 FEET	GRAVEL
7+20	5' TO 10' RT.	5 FEET	SEEDING

**RESTORATION NOTES:**  
1. SAW CUT THE EXISTING BITUMINOUS PAVING.  
2. REPAIR BITUMINOUS PAVING IN ACCORDANCE WITH STANDARD DETAIL G4.01.



DCI 200  
HUB & TACK  
ELEVATION  
N 588457.7084  
E 1348734.0508



DCI 201  
HUB & TACK  
ELEVATION 477.27  
N 588727.2062  
E 1348784.8737

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

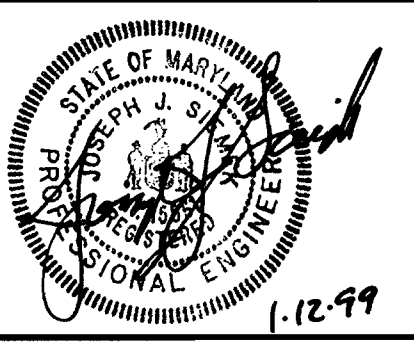
*James A. Chew* 1/20/99  
DIRECTOR OF PUBLIC WORKS  
DATE

*Robert J. Seaton* 1/13/99  
CHIEF, BUREAU OF ENGINEERING  
DATE

*Robert J. Seaton* 1-20-99  
CHIEF, BUREAU OF UTILITIES  
DATE

*Robert J. Seaton* 1-13-99  
CHIEF, UTILITY DESIGN DIVISION  
DATE

**WALLACE, MONTGOMERY & ASSOCIATES**  
CIVIL AND STRUCTURAL ENGINEERS  
110 WEST ROAD  
TOWSON, MARYLAND 21204



DES:	JJS	REVISOR	DATE
DES: LAF	JJS	REVISED TRENCH DETAIL	2/99
DRN: MEK	WMA	REVISED PROPERTY INFORMATION	4/99
CHK: JJS	LAF	AS-BUILT REVISIONS	10/99
DATE: JAN. 1999	LAF	SUPPLEMENTAL DESIGN	3/00
	K.E.I.	AS-BUILT CONDITIONS ADDED TO PLAN	8/01
BY NO.		REVISION	DATE

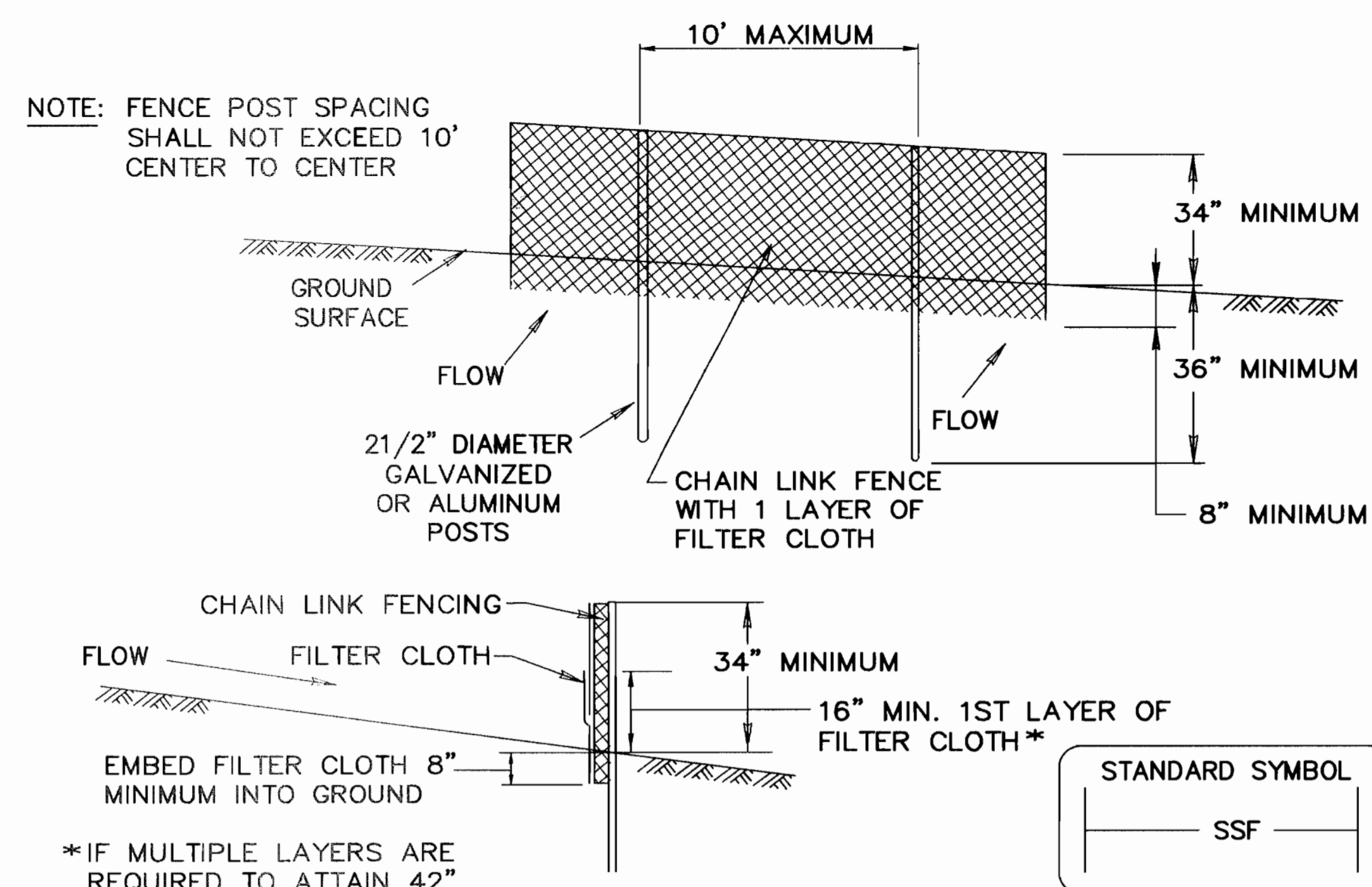
PLAN AND PROFILE

600' SCALE MAP NO. W-24 BLOCK NO.

US ROUTE 40 AT COVENTRY COURT WATER MAIN  
CAPITAL PROJECT W-8224/8698  
CONTRACT NO. 44-3732  
ELECTION DISTRICT NO. 2  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 3

**STANDARD SEDIMENT CONTROL NOTES**



- CONSTRUCTION SPECIFICATIONS**
- FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.
  - 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.
  - 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 "BULGES" 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 TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: MSMT 509
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: MSMT 509
FLOW RATE	0.3 GAL/FT <sup>2</sup> /MINUTE (MAX.)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN.)	TEST: MSMT 322

**SUPER SILT FENCE**

NOT TO SCALE

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH: A.) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEPPER THAN 3:1, B.) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE	=	0.37	ACRES
AREA DISTURBED	=	0.16	ACRES
AREA TO BE ROOFED OR PAVED	=	0.04	ACRES
AREA TO BE VEGETATIVELY STABILIZED	=	0.12	ACRES
TOTAL CUT	=	N/A	CU./YDS.
TOTAL FILL	=	N/A	CU./YDS.
OFF SITE WASTE/BORROW AREA LOCATION:	TO BE DETERMINED		
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- SPOIL FROM THE TRENCHING OPERATION IS TO BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (410-313-1870) PRIOR TO STARTING DATE. (4 DAYS)
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. (2 DAYS)
- EXCAVATE AND INSTALL PROPOSED 8" WATER MAIN (7 DAYS)
- RESTORE TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS WITH TEMPORARY PAVING HOWARD COUNTY STANDARD SPECIFICATION. (2 DAYS)
- UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTION, REMOVE SEDIMENT CONTROL DEVICES. (1 DAY)
- INSTALL PERMANENT PAVING PATCH OVER TRENCH. (2 DAYS)

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

**SOIL AMENDMENTS** - APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.).

**SEEDING** - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

**MULCHING** - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

**SEEDBED 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:

- PREFERRED** - APPLY 2 TONS PER ACRES 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 DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

**SEEDING** - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE 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.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  DIRECTOR OF PUBLIC WORKS DATE: 1-20-99	 CHIEF, BUREAU OF ENGINEERING DATE: 1-13-99	 CHIEF, UTILITY DESIGN DIVISION DATE: 1-13-99	 WALLACE, MONTGOMERY & ASSOCIATES CIVIL AND STRUCTURAL ENGINEERS 110 WEST ROAD TOWSON, MARYLAND 21204	 JOSEPH J. JANS PROFESSIONAL ENGINEER STATE OF MARYLAND 1-12-99	DES: LAF LAF  SUPPLEMENTAL DESIGN 3/00	SEDIMENT CONTROL NOTES & DETAILS	US ROUTE 40 AT COVENTRY COURT WATER MAIN CAPITAL PROJECT W-8224/8698 CONTRACT NO. 44-3732 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN
					DRN: DED CHK: JJS JAN. 1999			SHEET 3 OF 3