# U.S. ROUTE 40 WATER MAIN REPLACEMENT

# CAPITAL PROJECT W-8164 **CONTRACT NO. 44-3077**

QUANTITIES							
	QUA	QUANTITIES					
ITEM	ESKIMO.	AS BUILT	TYPE MATERIAL	SUPPLIER			
24" WATER	427 L.F.	353 L.F.	STEEL	STUPP CORP. PO BOX 3658 BATON ROUGE, L.A. 70821			
24" GATE VALVE	1	1	RESILIENT WEDGE	CLOW VALVE CO.			
12" GATE VALVE	1	2	RESILIENT WEDGE	MUELLER CO.			
FIRE HYDRANT 6" GATE VALVE 8" GATE VALVE	1 1	1		MUELLER CO. MUELLER CO.			

#### ENGINEER'S CERTIFICATION I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. Wallace DATE 11/24/97 WALLACE, MONTGOMERY & ASSOCIATES 110 WEST ROAD - SUITE 345 TOWSON, MARYLAND 21204 (410) 494-9093

#### 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

12/1/27 DATE PRINT NAME BELOW SIGNATURE

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	N992,000	
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CHURCH LANE		CONTRACTOR
TO OUT TO	HOWARD COUNTY	795—— C. G. N. N. M.
JAPOOT LA		TH CONTRACTOR
S S S S S S S S S S S S S S S S S S S	CHESTNUT HILL PS 10-1193 BALTO. COUT	24" VALVE & VAULT TO BE USED FOR DEWATERING
	N531,000	<u>µ531,∞∞</u> 1
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CONTRACTOR DE LANGUE ANGLE CT.  SON SEO FOR DE LANGUE ANGLE CT.  S	CHESTUUT TILL	, <b>w</b> j
Tark Solo Land	2040 2040 3040 3040 3040	· :
100° 80°	PATA PATA	
CONTA. 20 WAS	STIMORE JOST	
The second secon	S S S	
TYPE OF BUILDING: N/A NUMBER OF PARCELS: 0	VICINITY MAP	WATER CODE FOR COUNTY USE ONLY:
WATER HOUSE CONNECTIONS: 0 DRAINAGE AREA: PATAPSCO	SCALE: 1" = 600'	WATER NO. F 01

	INDEX OF SHEETS
SHEET NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10	TITLE SHEET PLAN AND PROFILE PLAN AND SECTION HANGERS, INSULATED COUPLING & EXPANSION JOINT HANGER DETAILS EXISTING METER VAULT — DEMOLITION PLAN EXISTING METER VAULT — IMPROVEMENTS TRAFFIC CONTROL PLAN SEDIMENT CONTROL DETAILS ELECTRIC PLANS AND DETAILS

# GENERAL NOTES:

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS, SERVICE AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 2. ALL HORIZONTAL CONTROLS BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV
- CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: BUREAU OF UTILITIES, HOWARD COUNTY DEPT. OF PUBLIC WORKS 410-313-4900 BG & E 1-800-685-0123

BELL ATLANTIC 1-800-446-5266 STATE HIGHWAY ADMINISTRATION 410-531-5533 MISS UTILITY 1-800-257-7777

- 9. TREE AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. TOPS OF ALL WATER MAINS TO HAVE A MIN. OF 3.5' COVER UNLESS OTHERWISE NOTED.
- 12. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 13. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 14. 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 1003 FROM THE STANDARD SPECIFICATIONS.
- 15. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM. CALL HOWARD COUNTY BUREAU OF UTILITIES AT 410-313-4900 AT LEAST FIVE WORKING DAYS PRIOR TO SCHEDULING.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

110 WEST ROAD - SUITE 345 - TOWSON, MARYLAND 21204



DES: J.J.S.					
DRN: D.E.D.					TITLE SHEET
CHK: J.C.W.				•	,
DATE: 11/97	BY	NO.	REVISION	DATE	600' SCALE MAP NO BLOCK NO

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

U.S. ROUTE 40 WATER MAIN REPLACEMENT CONTRACT NO. 44-3077

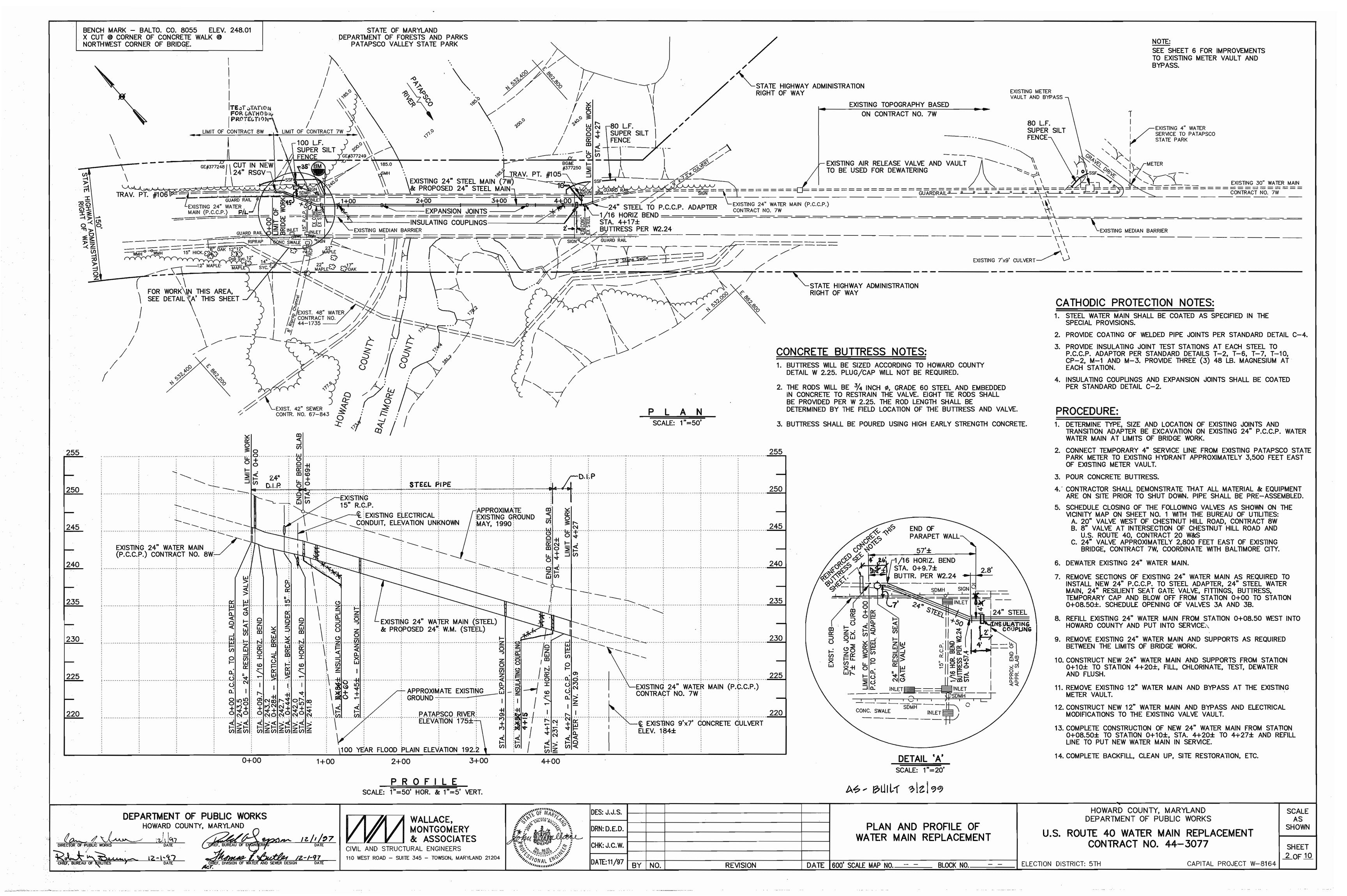
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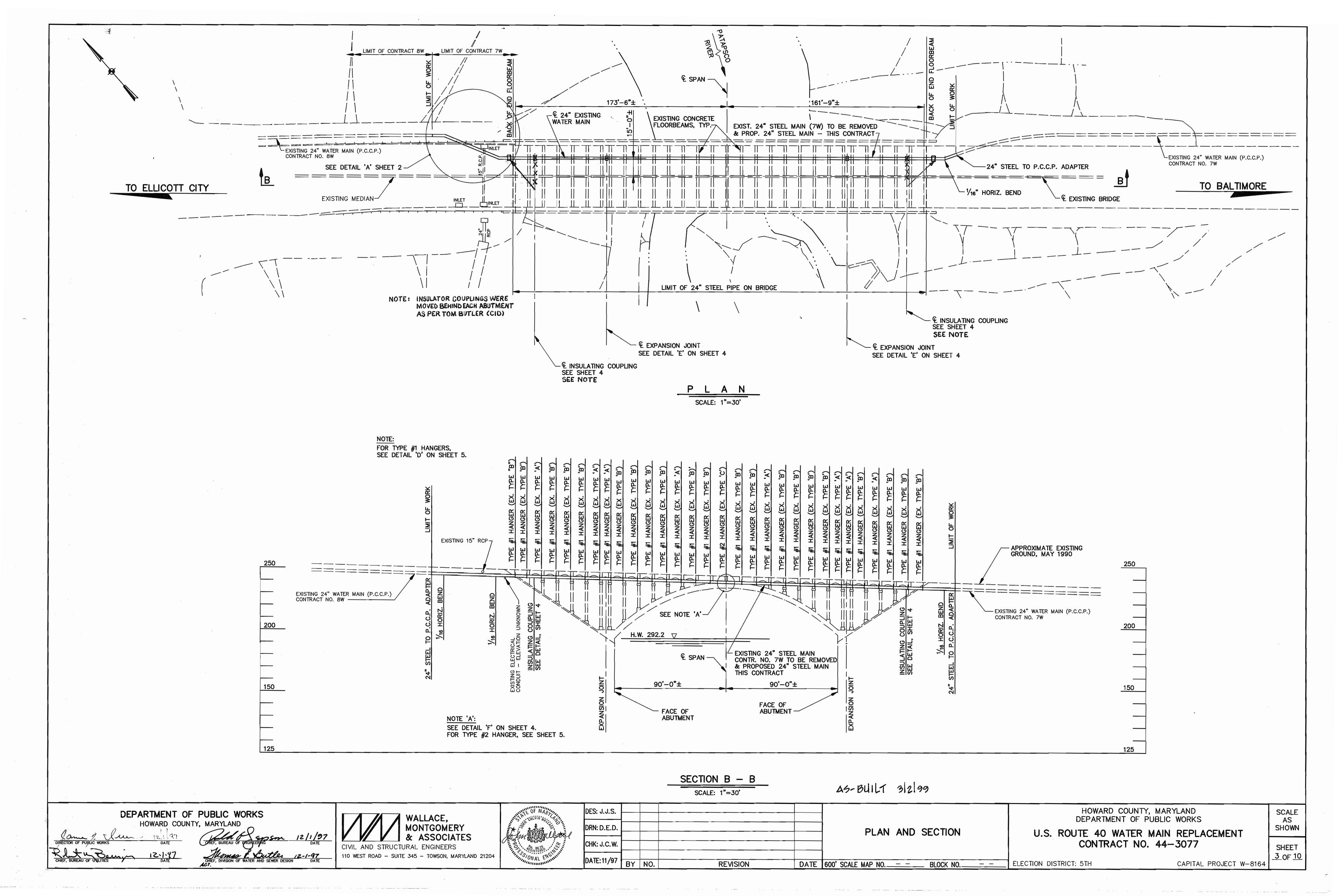
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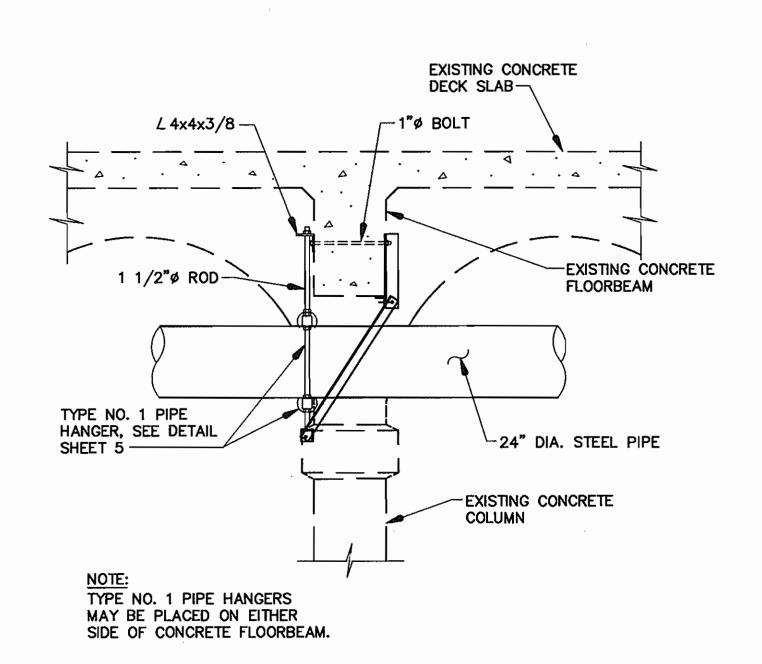
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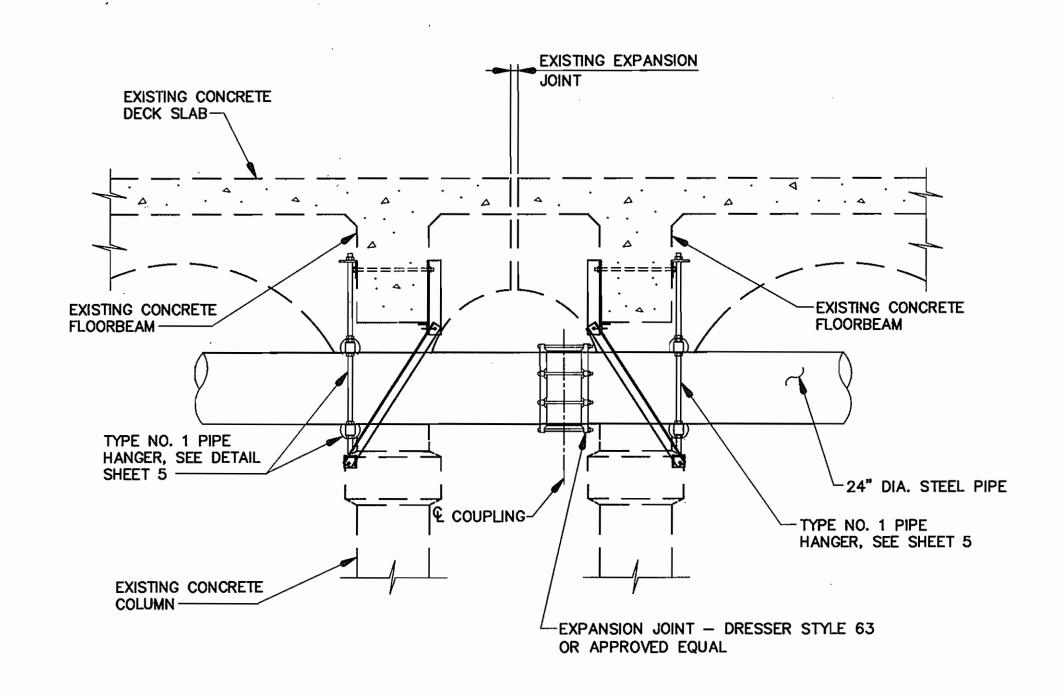
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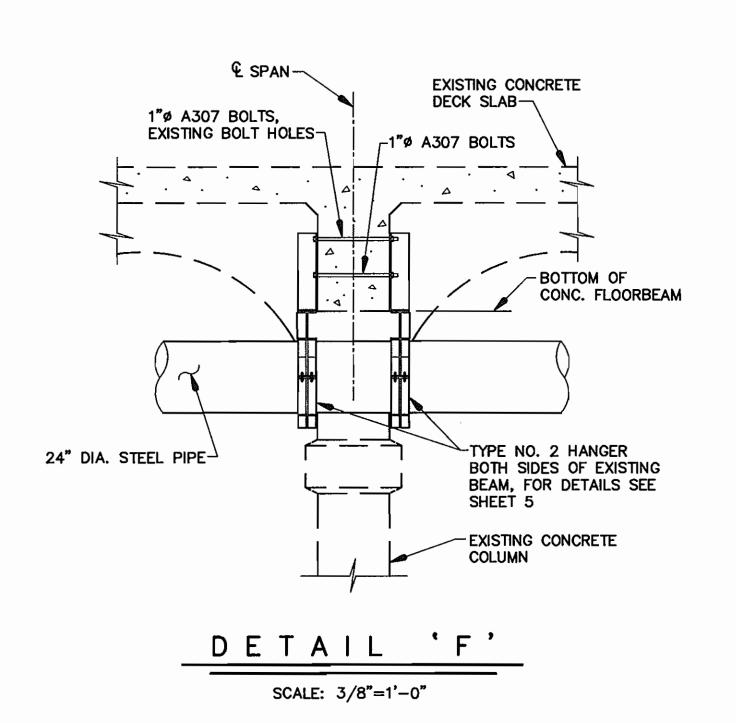
CAPITAL PROJECT W-8164 ELECTION DISTRICT: 5TH







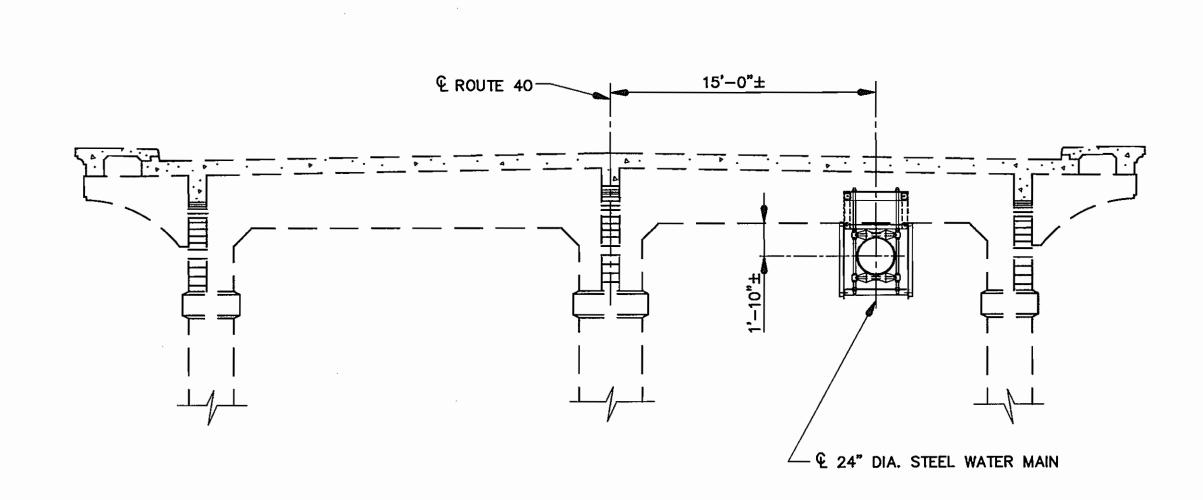




DETAIL 'D' SCALE: 3/8"=1'-0"

DETAIL 'E' SCALE: 3/8"=1'-0"

CONTRACTOR TO VERIFY DIMENSIONS IN FIELD.



3'-4" & COUPLING 7 3/16"@ 60F 3/16"@ 60F PIPE END PIPE END AS PER TOM BUTLER - CID LOCK NUTS,
 TYPICAL 24" DIA. STEEL-THE XANCHOR-3/16"@ 60°F TYPICAL -DRESSER COUPLING STYLE 39 INSULATING COUPLING OR APPROVED EQUAL WITH STARNATIONAL PRODUCTS INSULATING TIE RODS OR APPROVED EQUAL COATING ON THE COUPLING

NOTE: TIE RODS, TIE ANCHORS AND TIE NUTS TO BE FURNISHED HOT-DIPPED GALVANIZED,  $8-\sqrt[3]{4}$  TIE RODS ARE REQUIRED.

TYPICAL INSULATING COUPLING SCALE: 1"=1'-0"

SECTION-THRU DECK

SCALE: 3/16"=1'-0"

45-BUILT 3/2/99

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



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- 44 /0-			
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S: J.J.S.			

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HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS U.S. ROUTE 40 WATER MAIN REPLACEMENT CONTRACT NO. 44-3077

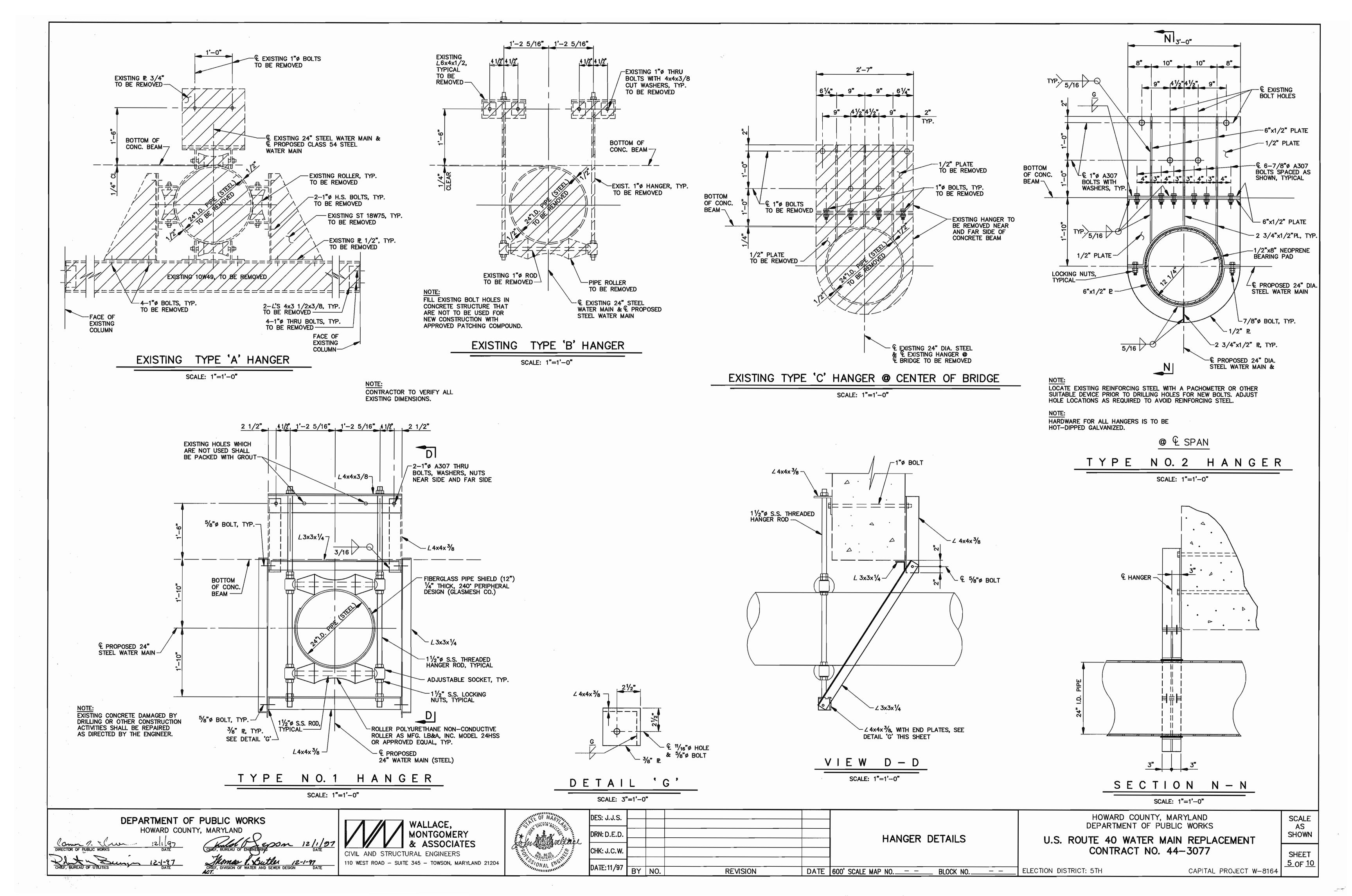
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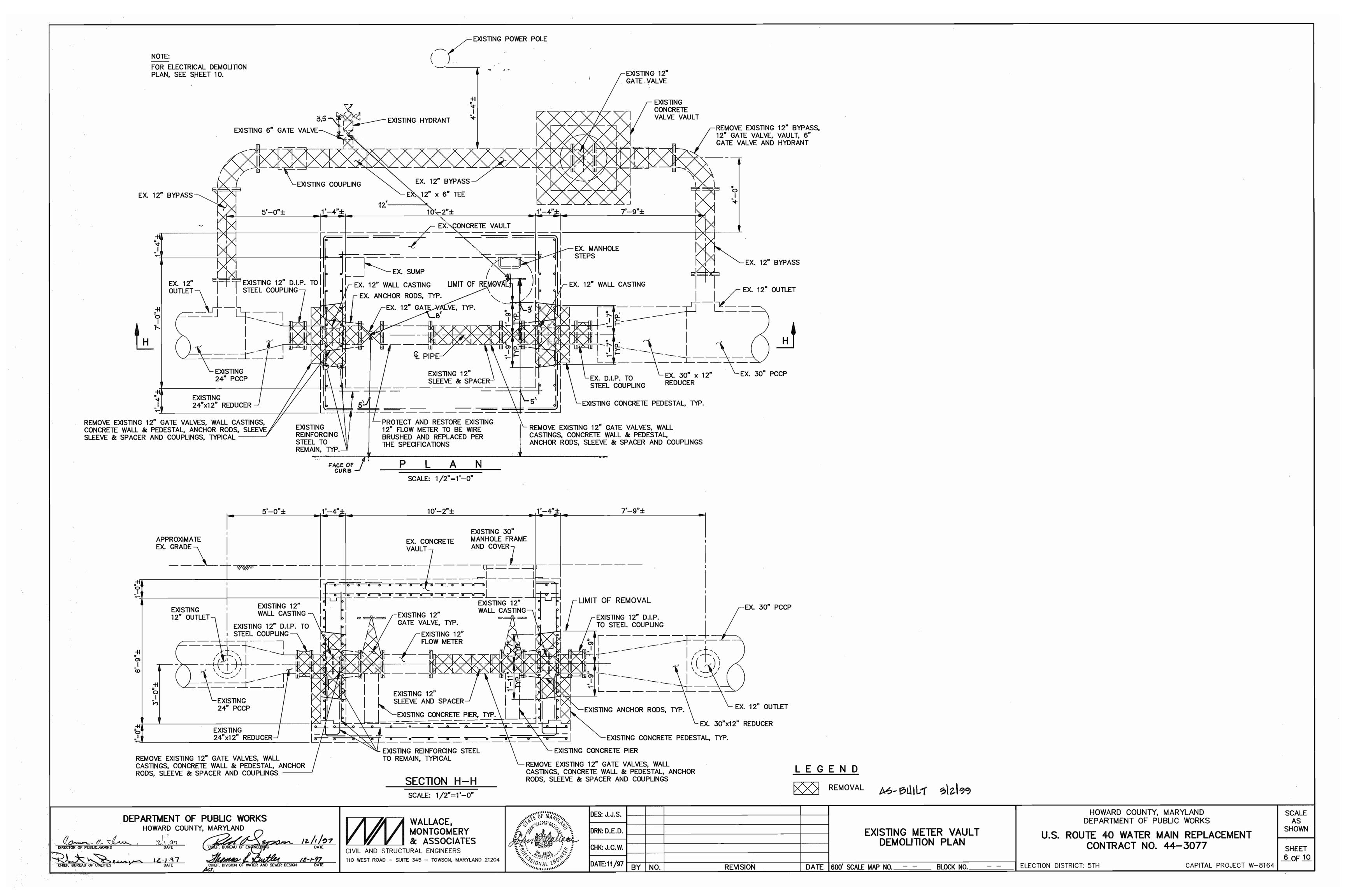
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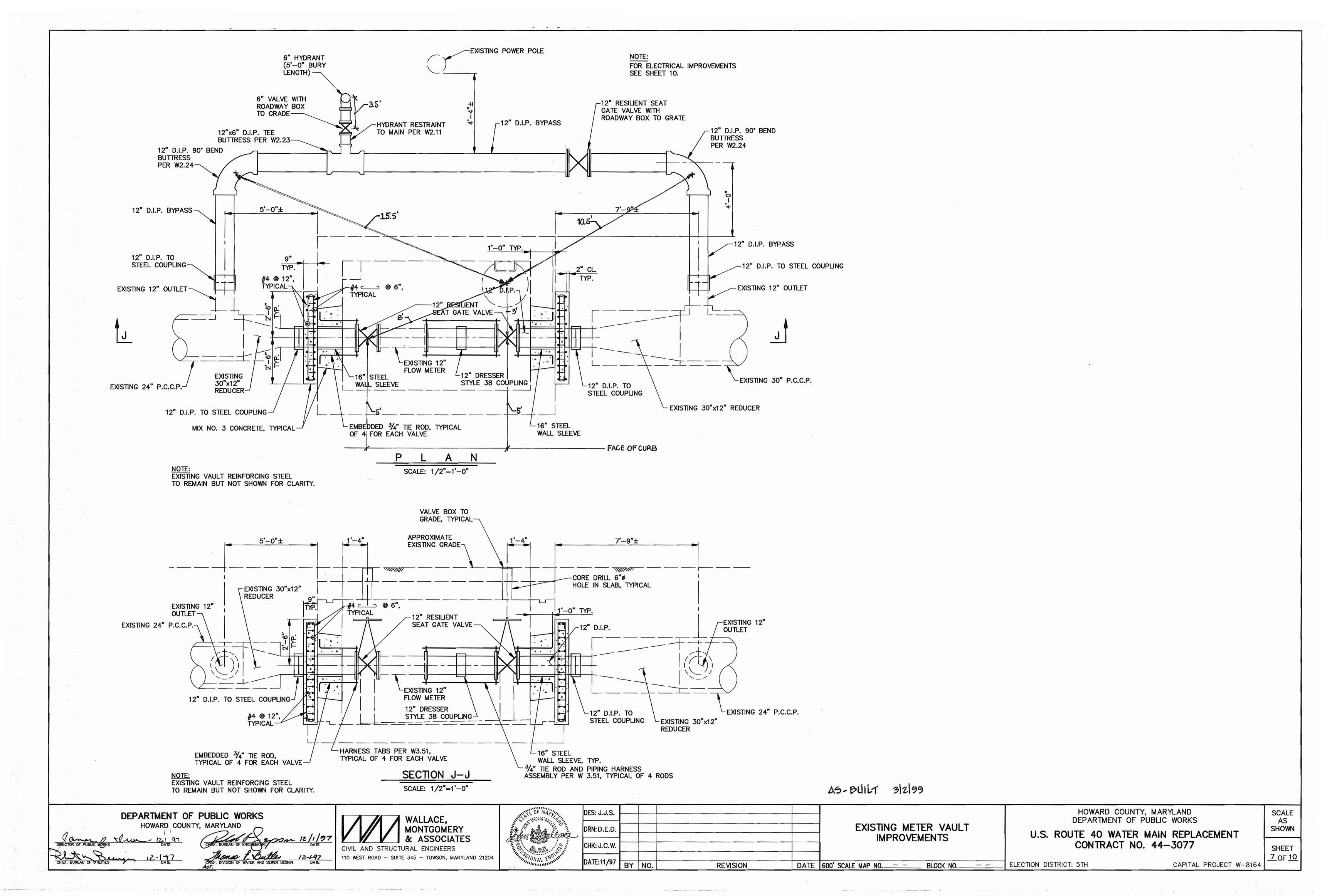
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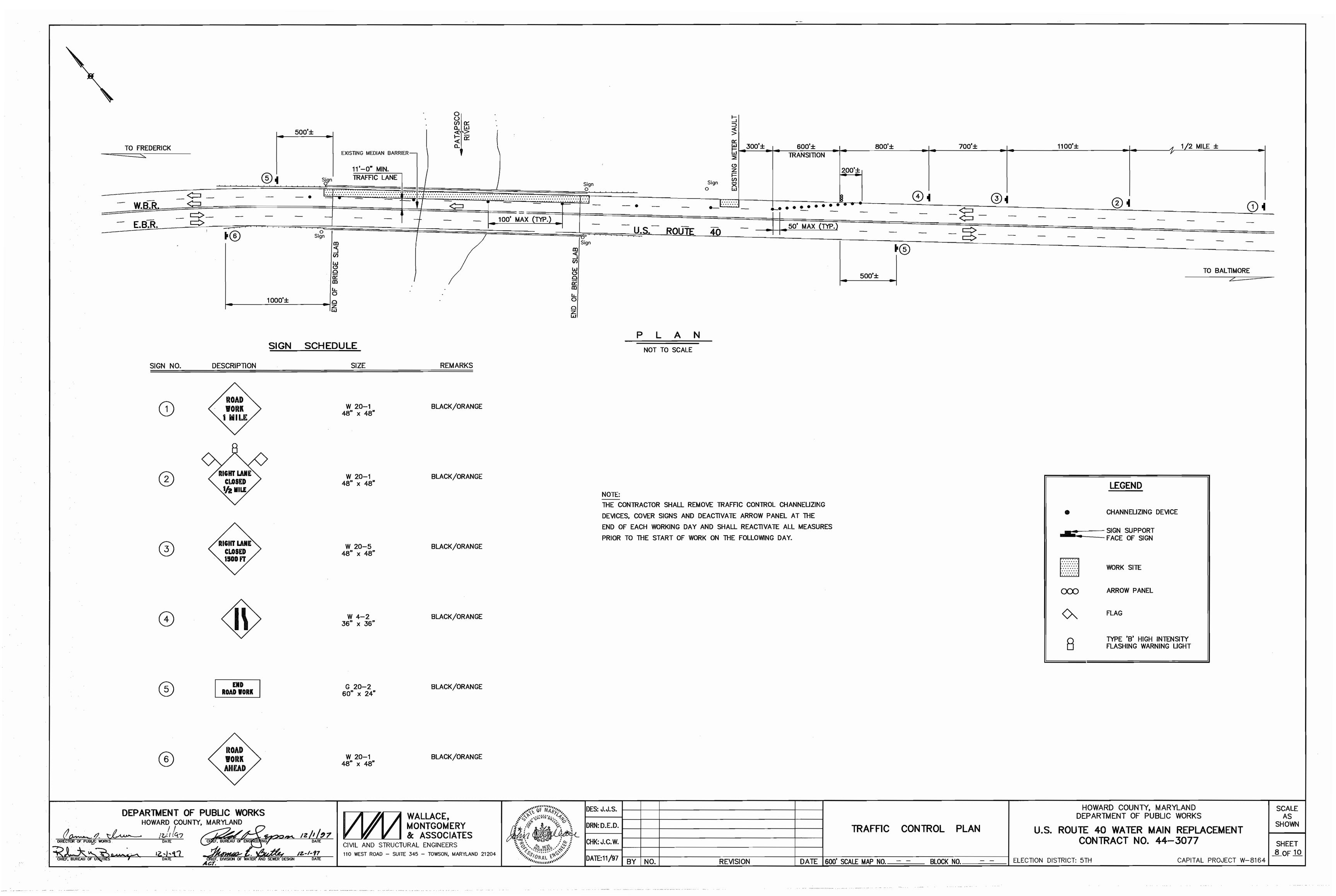
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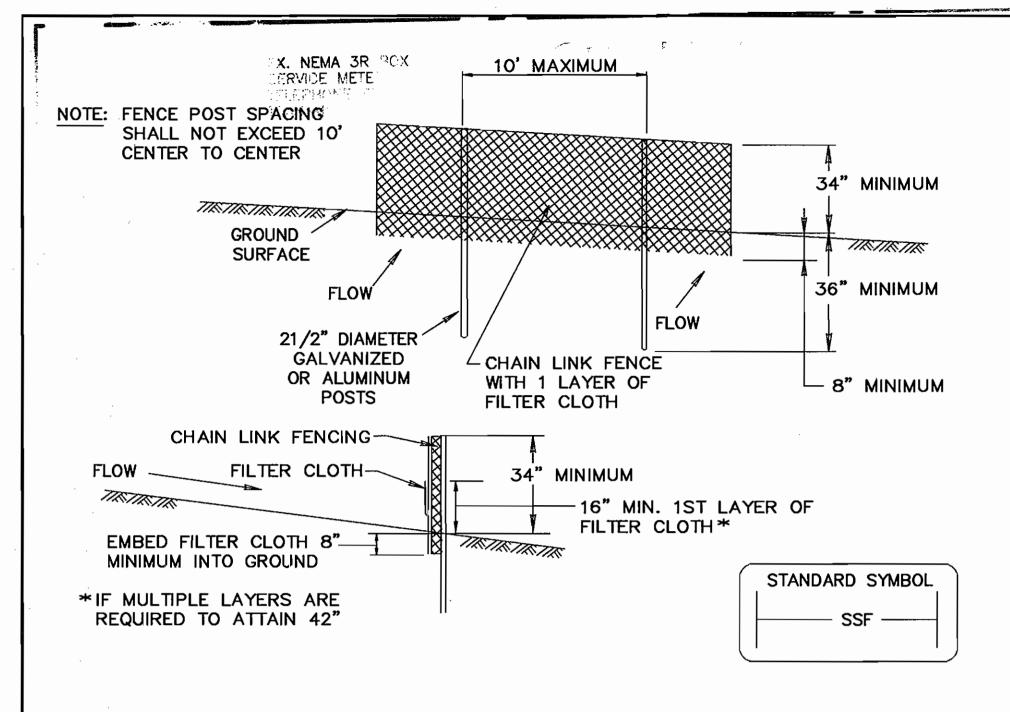
DATE:11/97 BY NO. DATE 600' SCALE MAP NO. \_ \_ \_ BLOCK NO. \_ \_ \_ ELECTION DISTRICT: 5TH REVISION











#### 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
TENSILE MODULUS
FLOW RATE
FILTERING EFFICIENCY

50 LBS/IN (MIN.) 20 LBS/IN (MIN.)

TEST: MSMT 509 0.3 GAL/FT<sup>2</sup>/MINUTE (MAX.) 75% (MIN.)

TEST: MSMT 509 TEST: MSMT 322 TEST: MSMT 322

# SUPER SILT FENCE NOT TO SCALE

### SEQUENCE OF CONSTRUCTION

SECURE GRADING PERMIT.

CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (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. (1 DAY)

EXCAVATE AND INSTALL PROPOSED 24" WATER MAIN. (5 DAYS) EXCAVATE AND INSTALL 12" WATER MAIN. (2 DAYS)

RESTORE EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS. (SAME DAY)

UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES. (1 DAY)

FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING. (1 DAY)

POINT NO.	NORTH	EAST	BEARING	DISTANCE
#3444002	533114.86	859139.30	-	
	_		S 64*-27*-11" E	217.37'
114	533021.12	859335.43		
			S 27*-25'-27" E	914.36'
115	532209.52	859756.56		
			S 19*-27'-59" E	43.03'
#3444003	532168.94	859770.90		
			S 55'-17'-45" E	295.34'
107	532000.80	860013.70		
			N 64°-26'-45" E	576.04'
108	532249.28	860533.38		
			S 25*-55'-18" E	401.48'
109	531888.19	860708.88		
			N 80°-23'-28" E	2048.34'
105	532230.11	862728.49		
			N 48'-07'-34" W	547.57
106	532595.61	862320.76		
			N 65'-05'-43" W	1106.00'
110	533061.36	861317.60	_	
_			S 82*-04*-18" W	910.32
111	532935.79	860415.98		
			S 56*-08'-30" W	734.96
112	532526.31	859805.66	_	
			N 31°-35°-42" W	727.82
113	533146.25	859424.34		
			S 83*-42*-59" W	286.76'
#3444002	533114.86	859139.30		

RESTORATION SCHEDULE						
LOCATION	LENGTH	MATERIAL				
24" WATER MAIN 0+00 TO 0+20±	20 L.F. ±	SEEDING				
24" WATER MAIN 0+20± TO 0+69±	49 L.F. ±	SHA PAVING				
24" WATER MAIN 4+02± TO 4+27±	25 L.F. ±	SHA PAVING				
12" WATER MAIN VAULT BYPASS	45 L.F. ±	SEEDING				

# 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.

# STANDARD SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR THE START OF ANY CONSTRUCTION. (992-2437)
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1. CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. 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.
- 7. SITE ANALYSIS: 0.30\_ ACRES TOTAL AREA OF SITE 0.10 ACRES AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED ACRES CU. YDS. TOTAL CUT O CU. YDS. TOTAL FILL OFFSITE WASTE/BORROW AREA LOCATION TO BE DETERMINED
- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

**ELECTION DISTRICT: 5TH** 

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10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND





	DES: J.J.S.				
	520. 0.0.0.				
	DRN: D.E.D.				
	CHK: J.C.W.				
	DATE 44 /07				
	DATE:11/97	RY	NO.	REVISION	DATE

SEDIMENT CONTROL DETAILS

600' SCALE MAP NO. -- BLOCK NO.

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

U.S. ROUTE 40 WATER MAIN REPLACEMENT CONTRACT NO. 44-3077

SHEET 9 OF 10

**SCALE** 

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SHOWN

CAPITAL PROJECT W-8164

