

ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

9 FT. - 16" WATER MAIN
392 FT. - 8" WATER MAIN
16 FT. - 6" HYDRANT BRANCH

INSTALL

1 - HYDRANT

REMOVE

1 - HYDRANT / MINOR

SERVICES

5 - CONNECT ORIGINAL SERVICE (C.O.S.)

PERMANENT PAVEMENT

15 SQ. YDS. - 3" ASPHALTIC CONCRETE
70 SQ. YDS. - 9" CONCRETE (8" REPLACEMENT WIDTH)
170 SQ. YDS. - 4" ASPHALTIC CONCRETE
15 SQ. YDS. - 8" CONCRETE BASE

FURNISH AND INSTALL DOWEL BARS

85 BARS

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

155 LIN. FT. - IN CONCRETE (FULL DEPTH)
675 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)

SLURRY BACKFILL

40 SQ. YDS. (REQUIRED IN S. BARCLAY ST.)

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

330 CU. YDS. EXCESS EXCAVATED MATERIAL

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.

- 1 - AT 8x6
- 2 - V6
- 3 - VB-DD
- 4 - C8
- 5 - H (7.0)
- 6 - SL8(DP)
- 7 - SL8
- 8 - 1" CORPORATION STOP
- 9 - 1-1/2" CORPORATION STOP

PAVEMENT TYPE

EXISTING PAVEMENT IN E. WASHINGTON ST. FROM S. 1ST ST. TO S. BARCLAY ST. IS V.T.A.C. (1963) ON 7" (1920) SANDSTONE BLOCK ON 8" (1920) CONCRETE BASE

EXISTING PAVEMENT IN THE INTERSECTION OF E. WASHINGTON ST. & S. BARCLAY ST. IS 9" (1993) CONCRETE - PLAIN

E. WASHINGTON ST IS ON THE 2013 PAVING PROGRAM.

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS

- 9 FT. - 16" 1896-L WATER MAIN
- 387 FT. - 8" 1875-L WATER MAIN
- 1 - HYDRANT
- 2 - 8" VALVE

SCHEDULE

ALL WORK ON THIS PROJECT SHALL BE COMPLETED BY DECEMBER 14, 2012.

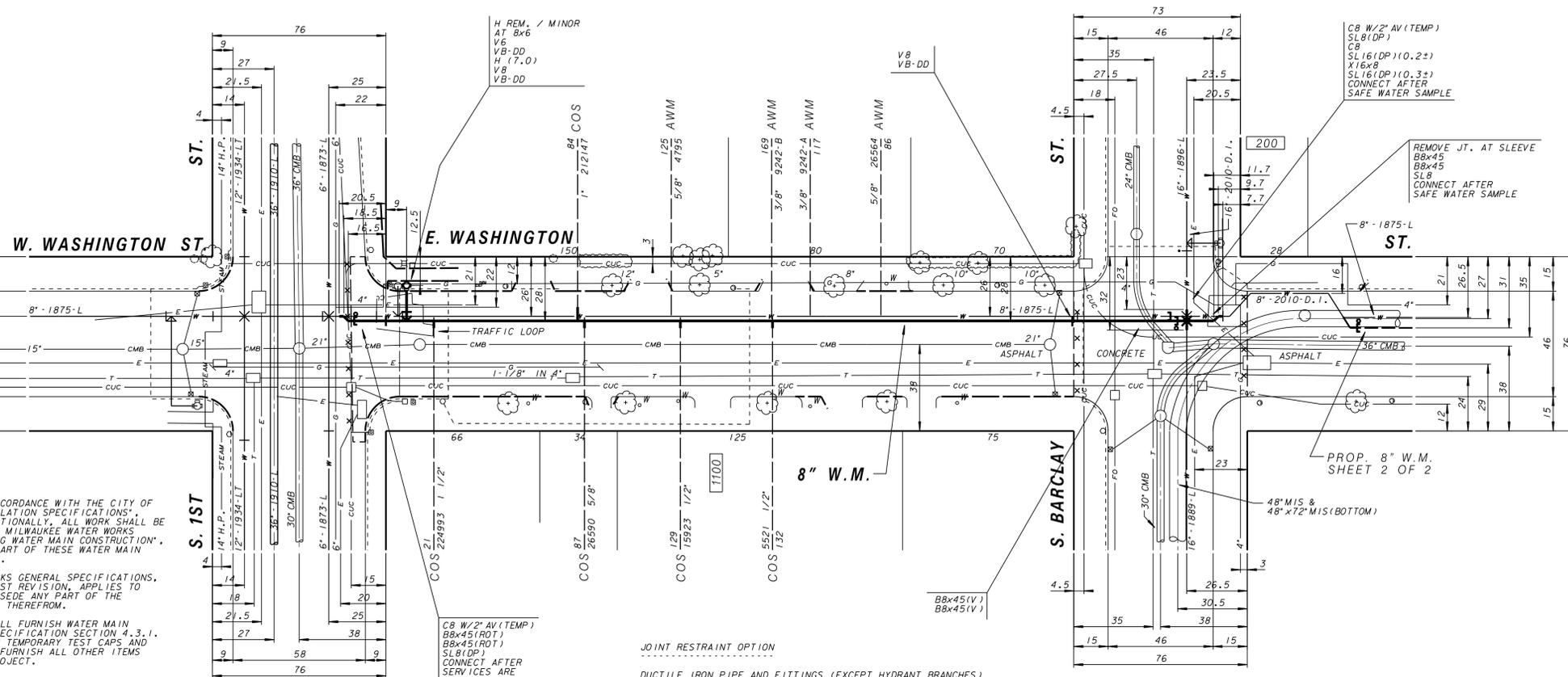
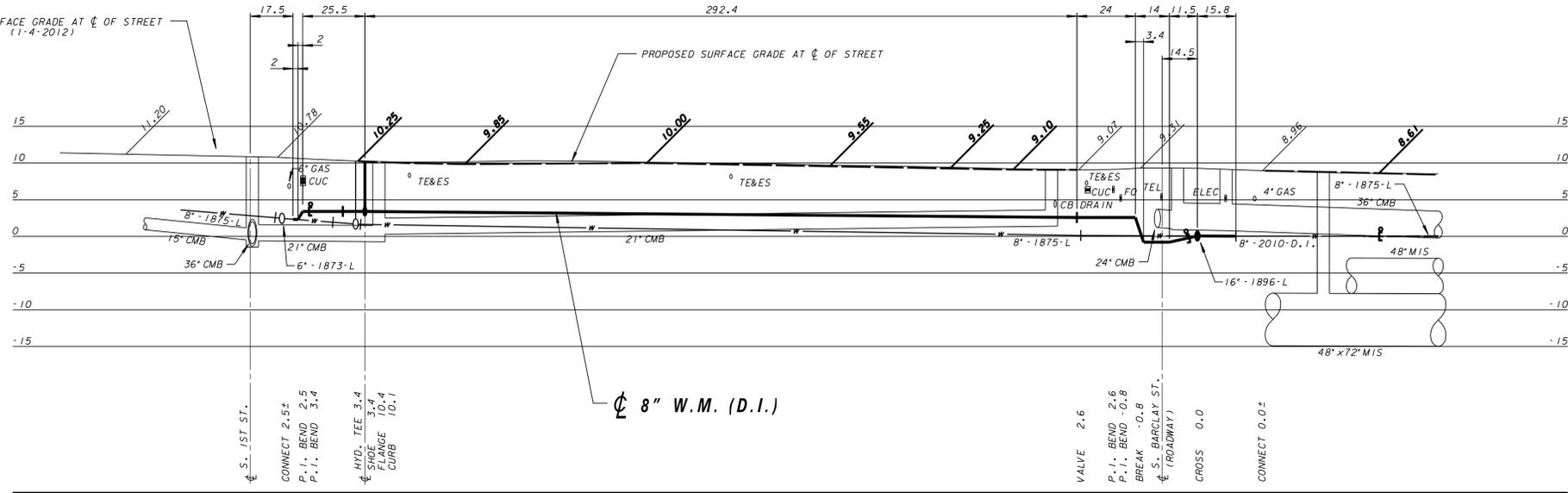
BENCHMARKS

- HYD. - N.E. CORNER OF E. WASHINGTON ST. & S. BARCLAY ST. ELEVATION = 11.23
- HYD. - N.E. CORNER OF E. WASHINGTON ST. & S. 1ST ST. ELEVATION = 12.63
- N.E. BOLT F.P. STD. - S.W. CORNER OF E. WASHINGTON ST. & S. WATER ST. ELEVATION = 5.97

PLAN LINE & UTILITY LEGEND

GAS	g	SANITARY SEWER	s	STREET LIGHTING	---
ELECTRIC	e	STORM SEWER	st	CITY UNDERGROUND CONDUIT	cuc
TELEPHONE	t	COMBINED SEWER	cs	PROPOSED CURB / PAVT	---
CABLE TELEVISION	tv	WATER MAIN	w	PAVING LIMITS	x x x x x
FIBER OPTICS	fo	WATER SERVICE	ws	STRUCTURE / BUILDING	///
PROPOSED UTILITY	pu	PRESSURE DISTRICT	pd	FENCE	x
POWER POLES	o	CONCRETE	o	WATER MAIN VALVES	+
		ALUMINUM	o		+
		WOOD	o		+
				GATE	+
				BUTTERFLY	+
				SERVICE	+
UTILITIES		TRAFFIC SIGNAL	ts	HYDRANTS	h
		TRAFFIC CONTROL BOX	tc		h
				1 NOZZLE	h
				3 NOZZLE	h

EXISTING SURFACE GRADE AT C/L OF STREET (1-4-2012)



GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION", WHICH IS ATTACHED AND MADE PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS.

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1. THE CONTRACTOR SHALL FURNISH TEMPORARY TEST CAPS AND PLUGS. THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS. "ADAPTOR 11" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

HYDRANTS

THE CONTRACTOR SHALL RETURN ALL ABANDONED HYDRANTS TO THE DPW FIELD HEADQUARTERS - INFRASTRUCTURE, OPERATIONS, WATER WORKS. CONTACT MR. BEN GLATZEL AT 414-708-2839 FOR ADDITIONAL INFORMATION.

HYDRANT PERMITS

A \$65.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY.

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES, THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE \$65.00 HYDRANT PERMIT/USE FEE WILL BE WAIVED BY THE UTILITY. THE CONTRACTOR WILL NOT BE CHARGED FOR THE VOLUME OF WATER USED.

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MMW METER SERVICES DISPATCHER, 414-286-2865
MR. TIM GARCZYNSKI, WATER METER PROJECT MANAGER, 414-286-8119

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MJ FIELDLOK RESTRAINT. BUTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

CONTRACTOR SHALL NOTIFY MMW 414-286-2427 IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES INCLUDED IN BID DOCUMENTS.

RESIDENT / BUSINESS NOTIFICATION

WITHIN TEN (10) WORKING DAYS FOLLOWING AWARD OF THIS CONTRACT, THE SUCCESSFUL BIDDER SHALL MAIL A NOTICE OF THE PROJECTS TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A SAMPLE NOTICE HAS BEEN INCLUDED IN THE BID PACKAGE. ANY CHANGES TO THE NOTICE MUST BE REVIEWED BY THE WATER ENGINEERING SECTION OF MMW. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.

C.O.S. NOTE

TAPS REQUIRED FOR RE-CONNECTING SERVICES SHALL BE MADE BY THE CONTRACTOR. TAPS SHALL BE MADE AND CORPORATION STOPS INSTALLED PRIOR TO PRESSURE TEST. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

TRAFFIC PROVISIONS

MAINTAIN TWO WAY TRAFFIC. DURING CONSTRUCTION UNDER THE RAILROAD BRIDGE, THE NORTH SIDE OF THE ROADWAY CAN BE CLOSED TO TRAFFIC.

INSTALL "NO PARKING ANYTIME" SIGNS ON THE NORTH SIDE. INSTALL "NO PARKING 7AM TO 5PM" SIGNS ON THE SOUTH SIDE.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

PLEASE CONTACT TRAFFIC ENGINEERING AT 286-3632 FOR THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS OR IF THERE ARE ANY QUESTIONS CONCERNING THESE COMMENTS.

ANY PERSON WORKING IN THE PUBLIC WAY SHALL COMPLY WITH THE CITY OF MILWAUKEE, DEPARTMENT OF PUBLIC WORKS BOOKLET, "TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK" AND PART VI OF THE STATE OF WISCONSIN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

PLAN NOTES ARE CONTINUED ON SHEET 2 OF 2. PLAN FILE NO. 2012040.

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0115 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE



Milwaukee Water Works Department of Public Works	
WATER MAIN	
E. WASHINGTON ST.	
S. 1ST ST.	
S. WATER ST.	
IN	DATE
FROM	8-22-12
TO	WAINS DESIGN ENGINEER
APPROVED	
<i>Mark J. Schell</i>	
PLAN DATE	8-22-12
DRAWN BY	S. MILLER
CHECKED BY	P.W.P.
SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
PROGRAM NO.	CONTRACT NO.
2011-008	111025
WORK ORDER	D.W. & PROJECT NO.
WT410120002	12-115-1
DATE ADOPED	
12-20-11	
SHEET NO. 1 OF 2 PLAN FILE NO. 2012039	