

ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

370 FT. - 8" WATER MAIN
32 FT. - 6" WATER MAIN
19 FT. - 6" HYDRANT BRANCH

INSTALL

2 - HYDRANT

REMOVE

1 - HYDRANT / MINOR

SERVICES

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

PERMANENT PAVEMENT

325 SQ. YDS. - 8" CONCRETE (7" WIDTH REPLACEMENT)

FURNISH AND INSTALL DOWEL BARS

410 BARS

CURB AND GUTTER

20 LIN. FT. - CONCRETE

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

175 LIN. FT. - IN CONCRETE (FULL DEPTH)

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

300 CU. YDS. EXCESS EXCAVATED MATERIAL

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

- 2 - AT 8x6
- 1 - T 8x8
- 1 - M 8x6
- 2 - B8-45
- 2 - B8-22 1/2
- 2 - OF5 6x6
- 4 - B6-45
- 2 - V8
- 2 - V6
- 2 - B8-DD
- 1 - C6
- 2 - H (7.0)
- 2 - SL6 (DP)
- 2 - RED 8x6 (2B)
- 1 - RED 8x6 (SEB)
- 12 - 1" CORPORATION STOP

PAVEMENT TYPE

EXISTING PAVEMENT IN N. 42ND ST. IS 7" (1992) CONCRETE - PLAIN

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

- 11' - 6" 1907-L WATER MAIN
- 5' - 6" 1906-L WATER MAIN
- 53' - 6" 1905-L WATER MAIN
- 323' - 6" 1903-L WATER MAIN

SCHEDULE

WORK SHALL BEGIN IN W. CAPITOL DR. IMMEDIATELY UPON AWARD OF CONTRACT.

ALL WORK IN N. 27TH ST. SHALL BE COMPLETED BY MAY 31, 2013.

ALL WORK IN W. HOPKINS ST. SHALL BE COORDINATED WITH THE PAVING PROJECTS IN N. 34TH ST. AND W. HOPKINS ST. THE PAVING PROJECTS HAVE AN EXPECTED START DATE OF MAY 27, 2013. THE WATER CONTRACTOR SHALL CONTACT MR. BILL FRASCH, CONSTRUCTION SUPERVISOR, AT 414-708-3884 TO COORDINATE WORK.

ALL WORK IN W. TOWNSEND ST. SHALL BE COMPLETED BY AUGUST 2, 2013.

ALL WORK IN N. 42ND ST. AND N. 41ST ST. SHALL BE COMPLETED BY SEPTEMBER 27, 2013.

EACH PROJECT IN THIS CONTRACT IS ASSIGNED AN ALLOWABLE NUMBER OF PROJECT WORKING DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR (4) HOURS TOWARDS COMPLETION OF THE PROJECT. FOLLOWING IS A LIST OF WATER MAIN INSTALLATION PROJECTS INCLUDED IN THIS CONTRACT AND THE ALLOWABLE PROJECT WORKING DAYS FOR EACH:

- N. 42ND ST. FROM W. SPAULDING PL. TO W. GARFIELD AVE., PLAN FILE NO. 2013025 - 15 WORKING DAYS.
- N. 41ST ST. FROM W. GARFIELD AVE. TO W. NORTH AVE., PLAN FILE NO. 2013026 - 17 WORKING DAYS.
- W. TOWNSEND ST. FROM N. 95TH ST. TO N. 99TH ST., PLAN FILE NO. 2013027 AND 2013028 - 37 WORKING DAYS.
- W. CAPITOL DR. FROM N. 84TH ST. TO W. GRANTOSA DR., PLAN FILE NO. 2013029 - 8 WORKING DAYS.
- N. 27TH ST. FROM W. ST. PAUL AVE. TO W. HIGHLAND AVE., PLAN FILE NO. 2013030 - 8 WORKING DAYS.
- W. HOPKINS ST. FROM W. FIEBRANTZ AVE. TO N. 35TH ST., PLAN FILE NO. 2013031 - 6 WORKING DAYS.

PLAN LINE & UTILITY LEGEND

GAS	G	SANITARY SEWER	STREET LIGHTING
ELECTRIC	E	STORM SEWER	CITY UNDERGROUND CONDUIT
TELEPHONE	T	COMBINED SEWER	PROPOSED CURB / PVM
CABLE TELEVISION	TV	WATER MAIN	PAVING LIMITS
FIBER OPTICS	FO	WATER SERVICE	STRUCTURE / BUILDING
PROPOSED UTILITY		PRESSURE DISTRICT	FENCE
POWER POLES	CONCRETE	ALUMINUM	WOOD
UTILITIES	TRAFFIC SIGNAL	TRAFFIC CONTROL BOX	GAS VALVE
	HYDRANTS	NOZZLE	3 NOZZLE

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 STANDARD 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 "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.

MILWAUKEE WATER WORKS ONLY PROJECTS ISSUED THROUGH DPW

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.

COMBINED WATER/SEWER PROJECTS ISSUED THROUGH DPW

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE CONTRACTOR WILL BE CHARGED FOR THE VOLUME OF WATER USED TO COMPLETE THE WORK ON THE CONTRACT. CONSTRUCTION ACTIVITIES DIRECTLY RELATED TO THE INSTALLATION OF WATER MAIN SHALL BE EXEMPT FROM THE USAGE CHARGE. THE CONTRACTOR SHALL CONTACT METER SERVICES BEFORE AND AFTER THE WATER MAIN INSTALLATION. FAILURE TO CONTACT METER SERVICES WILL SUBJECT THE CONTRACTOR TO THE FULL WATER USE CHARGES.

ALL OTHER CONTRACTS OR WATER MAIN INSTALLATIONS

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE CONTRACTOR WILL BE CHARGED FOR THE VOLUME OF WATER USED AND READ ON THE METERS.

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MWM METER SERVICES DISPATCHER, 414-286-2865
MR. TIM GARCZYNSKI, WATER METER PROJ MGR, 414-286-8119

JOINT RESTRAINT OPTION

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

CONTRACTOR SHALL NOTIFY MWM 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.

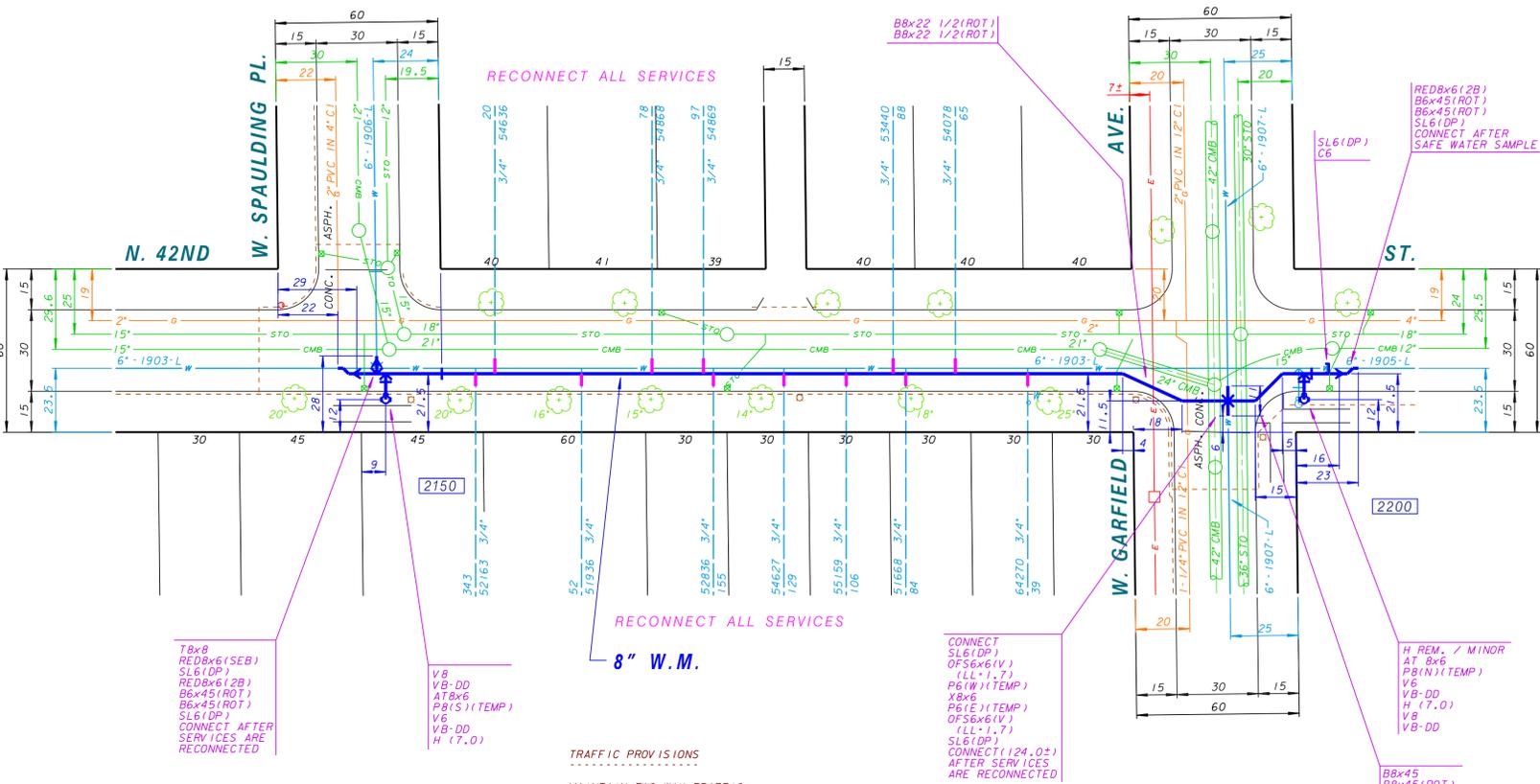
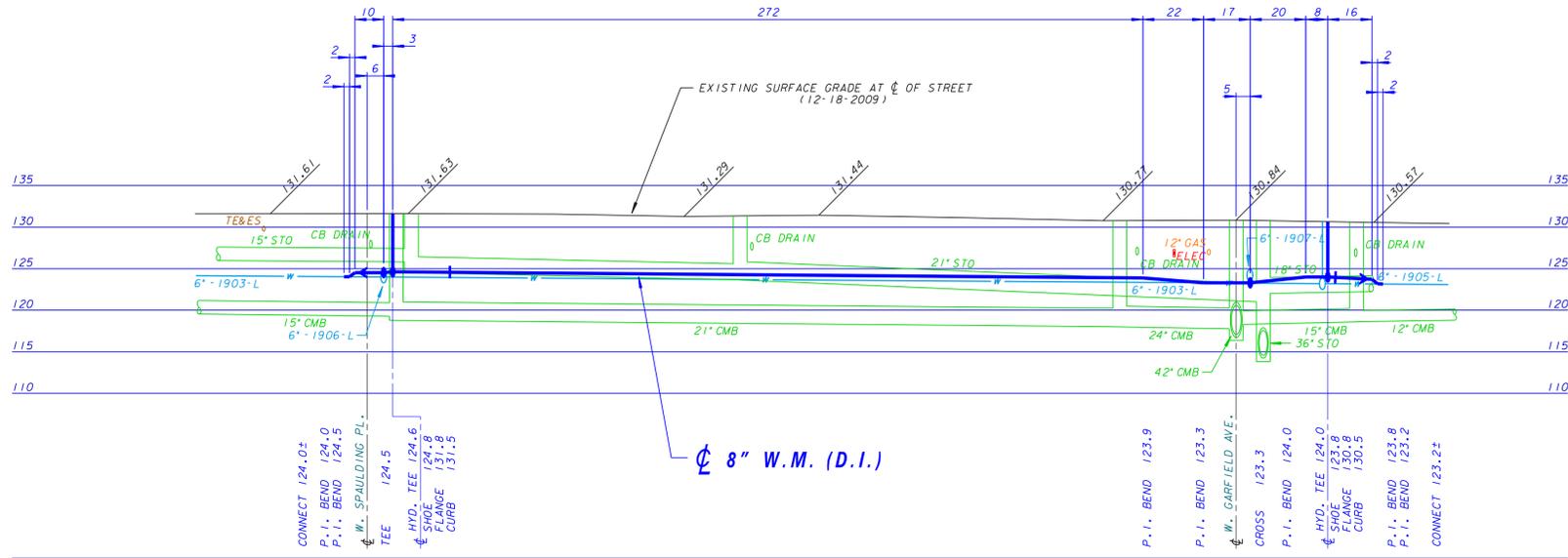
RESIDENT / BUSINESS NOTIFICATION

WITHIN TEN (10) BUSINESS DAYS OF THE AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL MAIL A NOTICE OF THE PROJECT TO THE CITY OF MILWAUKEE CONSTRUCTION SECTION AT 841 N. BROADWAY, ROOM 710, MILWAUKEE, WI 53202 FOR REVIEW AND APPROVAL. WITHIN FIVE (5) BUSINESS DAYS OF APPROVAL, THE CONTRACTOR SHALL MAIL THE PROJECT NOTICE TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES AND INCLUDE ANY INFORMATION DEEMED NECESSARY FOR THE SUCCESSFUL PERFORMANCE OF THE CONTRACT.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A MILWAUKEE WATER WORKS SAMPLE NOTICE IS INCLUDED IN THE CONTRACT DOCUMENTS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR BARRICADES AND TRAFFIC CONTROL. CONTRACT WORK SHALL NOT START PRIOR TO COMPLETING THE NOTICE REQUIREMENT. ANY DELAY IN CONTRACT COMPLETION AS A RESULT OF NON-COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BENCHMARKS

- S.E. CORNER OF 2ND CONCRETE RISER @ 2153 N. 42ND ST. ELEVATION 132.71
- S.E. CORNER OF 2ND CONCRETE RISER @ 2171 N. 42ND ST. ELEVATION 132.51



PROJECT IDENTIFICATION

THE CONTRACTOR SHALL POST CITY OF MILWAUKEE PROJECT IDENTIFICATION ("BLUE") SIGNS AS DIRECTED ON EACH PROJECT IN THIS CONTRACT. THE CITY OF MILWAUKEE CONSTRUCTION SECTION WILL PROVIDE BLANK SIGNS FOR THE CONTRACTOR TO FILL IN CONTACT INFORMATION AND POST. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR BARRICADES AND TRAFFIC CONTROL.

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.
USE "TEMPORARY NO PARKING ANYTIME" SIGNS
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".

STREET LIGHTING NOTE

STREET LIGHTING HAS PIPES AND CABLES CROSSING WITHIN THE PROJECT LIMITS. THESE PIPES AND CABLES SHALL BE SUPPORTED IF OPEN CUT TRENCHING IS USED. DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT 414-286-3425.

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE STREET LIGHTING EQUIPMENT, THE CONTRACTOR SHALL CONTACT ENG-KIE LEE IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE (82.0715) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE



Milwaukee Water Works Department of Public Works		Water Engineering Department of Public Works	
WATER MAIN			
N. 42ND ST.			
W. SPAULDING PL. W. GARFIELD AVE.			
IN FROM TO	HORIZONTAL 1" = 30' VERTICAL 1" = 10' PLAN DATE 1-13-10 DRAWN BY S. MILLER CHECKED BY P.W.P. SURVEY BY CONST. SECTION	APPROVED 3-19-13 CHIEF DESIGN ENGINEER	DATE 3-19-13 SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROGRAM NO. 2011-677 WORK ORDER WT41010105	CONTRACT NO. O.N. & PROJECT NO. 13-49-1 DATE ADOPED 2-8-11	C.C. FILE NO. 101173 DATE ADOPED 2-8-11	SHEET NO. 1 OF 1 PLAN FILE NO. 2013025