

ESTIMATE OF QUANTITIES

FOR BIDDING

- FURNISH PIPE AND INSTALL
- (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 770 FT. - 8" WATER MAIN
- 10 FT. - 6" HYDRANT BRANCH
- INSTALL
- 1 - HYDRANT
- SERVICES
- 9 - CONNECT ORIGINAL SERVICE (C.O.S.- SHORT)
- PERMANENT PAVEMENT
- 635 SQ. YDS. - 8" CONCRETE (7.5' WIDE REPLACEMENT WIDTH)
- FURNISH AND INSTALL DOWEL BARS
- 785 BARS
- CURB AND GUTTER
- 40 LIN. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
- SAWCUTTING
- 832 LIN. FT. - IN CONCRETE (FULL DEPTH)
- FINISHING OF ROADWAY
- LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
- LUMP SUM
- 620 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
- 1 - OFS 8x6
- 2 - OFS 8x12
- 1 - V8
- 1 - V6
- 2 - VB-DD
- 2 - VALVE BOX 18" EXT
- 1 - H (8.0)
- 3 - 8x8
- 2 - ACB (L.L.-1.0')
- 1 - 1" A.V.
- 9 - 1" CORPORATION STOP
- 4 - BB-45
- 3 - SLB
- 1 - CB

PAVEMENT TYPE

EXISTING PAVEMENT IN N. 105TH ST. IS 7" CONCRETE (1967), INCLUDING INTERSECTIONS AT W. HARVEST LA., W. FAIRMOUNT AVE., AND W. LANCASTER AVE.

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

- 714' - 8" 1957-L WATER MAIN
- 7' - 8" 1958-L WATER MAIN
- 6' - 8" 1960-R WATER MAIN
- 6' - 8" 1977-R WATER MAIN
- 7' - 8" 2001-D.I. WATER MAIN
- 2 - 8" VALVE

FOR START OF PLAN NOTES, SEE N. 105TH ST., PLAN FILE NO. 2015001

JOINT RESTRAINT OPTION

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

CONTRACTOR SHALL NOTIFY MMW 414-286-8167 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.

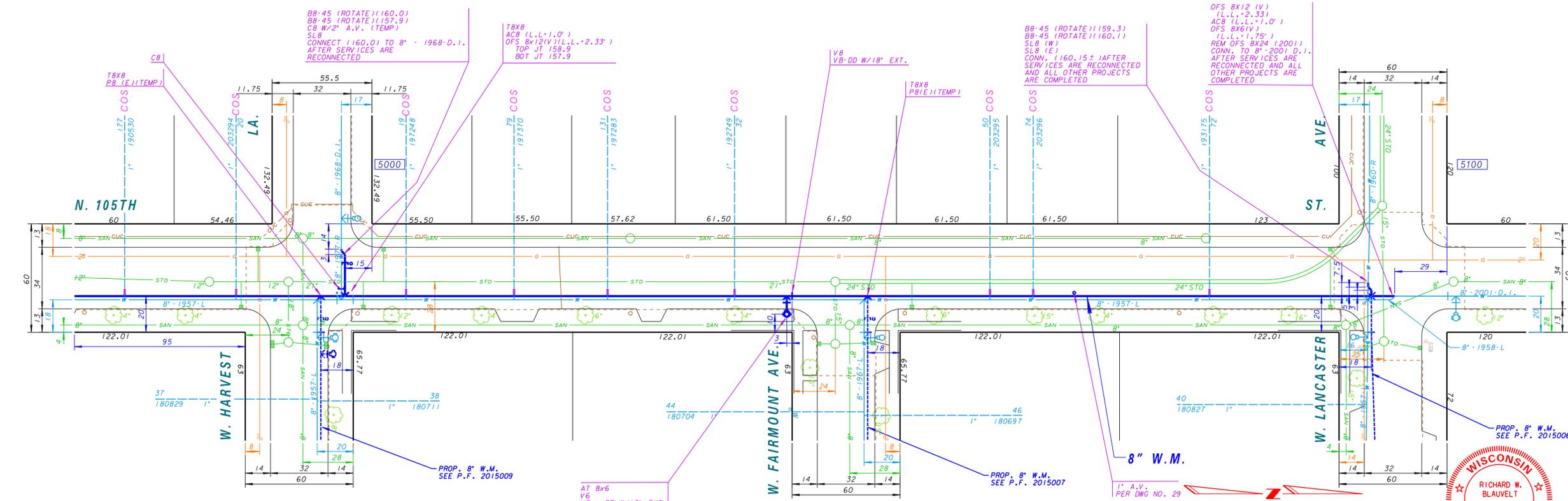
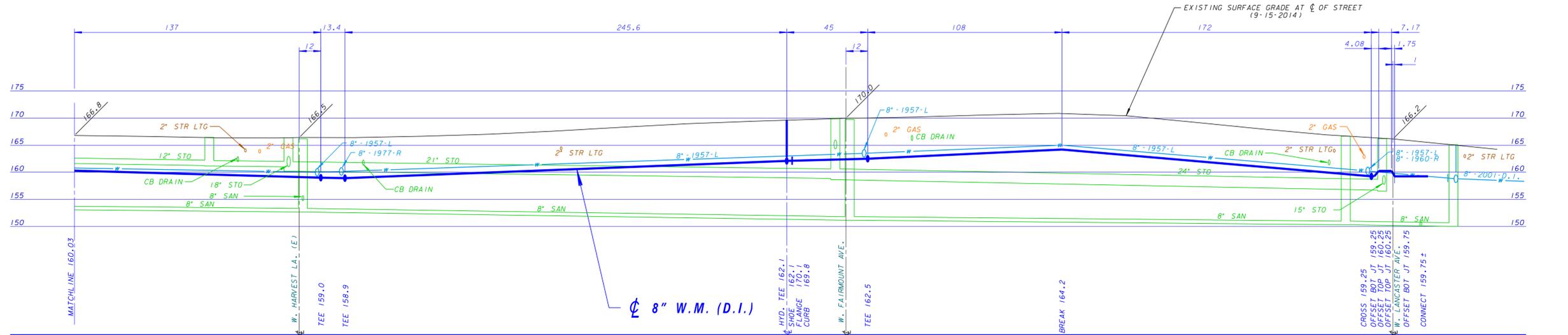
RESIDENT / BUSINESS NOTIFICATION

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 BENCHMARKS

- HYDRANT - N/E COR @ HARVEST - ELEV+ 168.44
- HYDRANT - N/E COR @ FAIRMOUNT - ELEV+ 171.09
- HYDRANT - S/E COR @ LANCASTER - ELEV+ 167.46

PLAN LINE & UTILITY LEGEND

GAS	G	SANITARY SEWER	SAN	STREET LIGHTING	---
ELECTRIC	E	STORM SEWER	STO	CITY UNDERGROUND CONDUIT	---
TELEPHONE	T	COMBINED SEWER	CMB	PROPOSED CURB / PMT	---
CABLE TELEVISION	TV	WATER MAIN	W	PAVING LIMITS	X X X X
FIBER OPTICS	FO	WATER SERVICE	WS	STRUCTURE / BUILDING	---
PROPOSED UTILITY	---	PRESSURE DISTRICT	---	FENCE	X
POWER POLES	○	CONCRETE	○	ALUMINUM	○
UTILITIES	□	TRAFFIC SIGNAL	□	TRAFFIC CONTROL BOX	□
				WATER MAIN VALVES	+
				GATE	+
				BUTTERFLY	+
				WATER SERVICE	+
				HYDRANTS	○
				1 NOZZLE	○
				3 NOZZLE	○



LUMP SUM PRICE BID FOR BARRICADES AND TRAFFIC CONTROL. CONTRACT WORK SHALL NOT START PRIOR TO COMPLETING THE NOTICE REQUIREMENT. ANY DELAY IN CONTACT COMPLETION AS A RESULT OF NON-COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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 TRAFFIC CONTROL AND BARRICADEING.

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.

CONTRACTOR SHALL FIELD LOCATE USING A PIPE LOCATOR, SIMILAR TO A RIGID PIPE LOCATOR, ALL BRANCHES AND SERVICES PRIOR TO TAPPING NEW WATER MAIN. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

ABANDONMENT OF VALVE BOXES
IN ACCORDANCE WITH SECTION 5.14.5 OF THE CITY OF MILWAUKEE WATER MAIN INSTALLATION SPECIFICATIONS, WHEN VALVES OR CURB STOPS ARE TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE ONLY THE TOP SECTION OF THE VALVE OR SERVICE BOX AND BACKFILL THE REMAINING HOLE WITH GRAVEL. ALL VALVE AND CURB STOP BOXES ON MAINS ABANDONED AS PART OF THE CONTRACT SHALL BE ABANDONED IN THIS MANNER. THE ABANDONMENT SHALL INCLUDE ALL NECESSARY PAVEMENT OR SOD REPLACEMENT.

VALVE NOTE
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NEW WATER MAIN, HYDRANT AND BRANCH VALVES ARE IN THE OPEN POSITIONS FOLLOWING THE FINAL WET CONNECTION. ALL CITIES OF MILWAUKEE VALVES ARE OPEN RIGHT "CLOCKWISE".

NO LEAD BRASS NOTE
IN ACCORDANCE WITH SENATE BILL 3874, EFFECTIVE AS OF JANUARY 4, 2014, ALL BRASS PRODUCTS USED TO COMPLETE THE WATER MAIN PROJECT, SHALL BE "LEAD FREE".

N 105th ST TRAFFIC PROVISIONS
MAINTAIN ACCESS.
TEMPORARY NO PARKING ANY TIME EAST SIDE N 105TH ST
PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.
PROVIDE SEVEN (7) DAYS ADVANCED NOTICE TO 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 414-286-3015.

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.
IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CONTACT SIGNAL ENGINEERING AT 414-286-5162 FOR NECESSARY ALTERATIONS. A FIVE WORKING DAY NOTICE IS REQUIRED. REPORT DAMAGE TO THE SIGNAL SHOP AT 414-286-3687.



Milwaukee Water Works Department of Public Works		Water Engineering Department of Public Works	
WATER MAIN			
N. 105th STREET			
W. STARK ST. W. LANCASTER AVE.			
IN FROM TO		APPROVED DATE Richard W. Blauvelt 1-21-15 M.J.P. 1-21-15 M.J.P. 1-21-15 R.W.B. 1-21-15 OTIE, LLC 1-21-15 SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
SCALE HORIZONTAL 1" = 30' VERTICAL 1" = 10'		PROGRAM NO. 2015-677 CONTRACT NO. C.C. FILE NO. 141400 PROJECT NO. WT410150677 OFFICIAL NOTICE NO. 28-1-2015 DATE ADOPED 1-21-15	
SHEET NO. 2 OF 2 PLAN FILE NO. 2015002			

CALL DIGGERS HOTLINE 1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE



NO.	BY	REVISION	DATE