

**ESTIMATE OF QUANTITIES**

FOR BIDDING

**FURNISH PIPE AND INSTALL**

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

- 721 FT. - 8" WATER MAIN
- 2 FT. - 6" WATER MAIN
- 10 FT. - 6" HYDRANT BRANCH

**INSTALL**

1 - HYDRANT

**REMOVE**

2 - HYDRANT / MINOR

**SERVICES**

- 29 - CONNECT ORIGINAL SERVICE (C.O.S. - SHORT)
- 1 - CONNECT ORIGINAL SERVICE (C.O.S. - LONG)

**PERMANENT PAVEMENT**

- 480 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT)
- 39 SQ. YDS. - 3" ASPHALTIC CONCRETE
- 39 SQ. YDS. - 8" CONCRETE BASE

**FURNISH AND INSTALL DOWEL BARS**

745 BARS

**BARRICADES AND TRAFFIC CONTROL**

**LUMP SUM**

**SAWCUTTING**

- 670 LIN. FT. - IN CONCRETE (FULL DEPTH)
- 147 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)

**FINISHING OF ROADWAY**

**LUMP SUM**

**FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL**

**LUMP SUM**

532 CU. YDS. EXCESS EXCAVATED MATERIAL

**PAVEMENT TYPE**

EXISTING PAVEMENT IN S. 66TH ST., NOT INCLUDING INTERSECTION, IS 8" CONCRETE-REINFORCED (1955).

EXISTING PAVEMENT AT THE INTERSECTION OF S. 66TH ST & W. HARRISON AVE. IS V.T.A.C. (1998), ON 8" REINFORCED CONCRETE (1955)

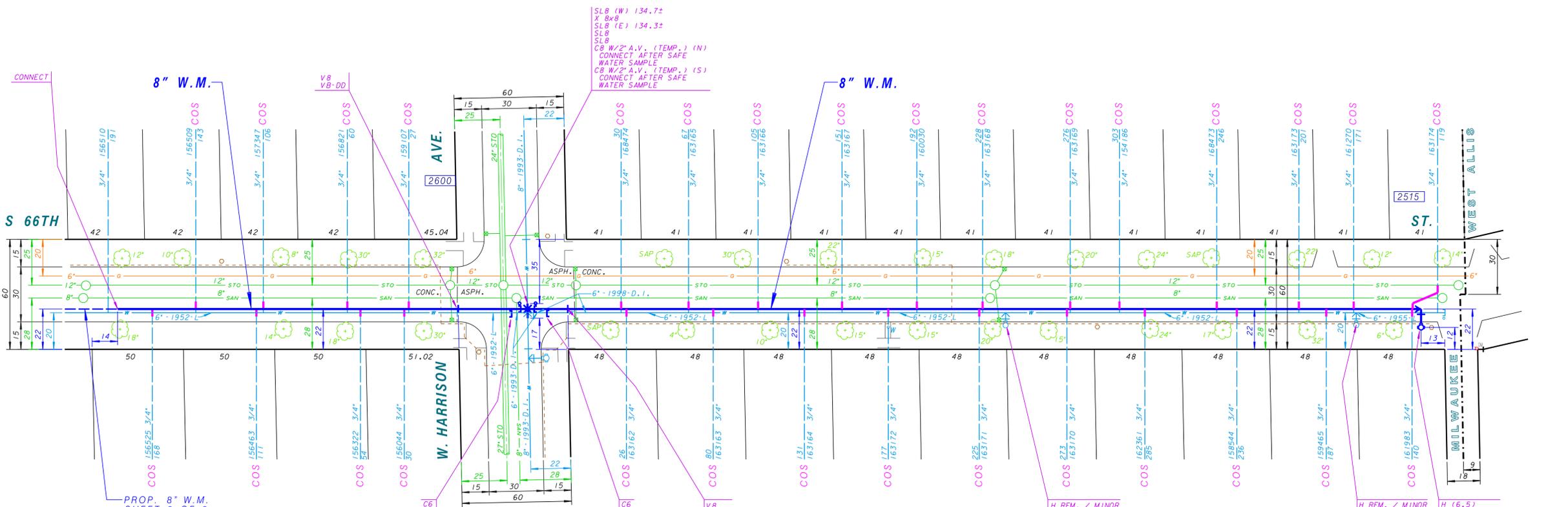
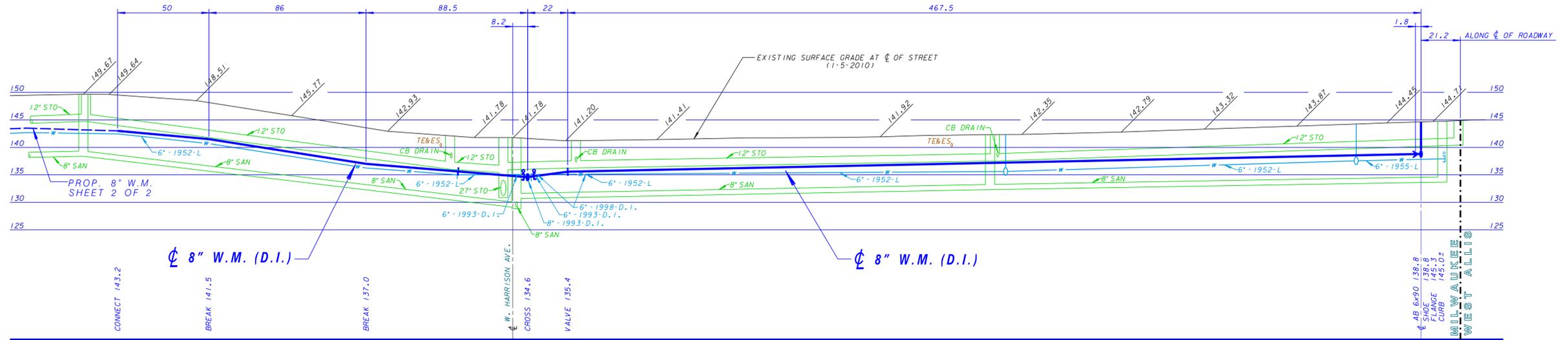
**ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES**

- 27 FT. - 6" 1998-D.I. WATER MAIN
- 8 FT. - 8" 1993-D.I. WATER MAIN
- 11 FT. - 6" 1993-D.I. WATER MAIN
- 47 FT. - 6" 1952-L WATER MAIN
- 641 FT. - 6" 1952-L WATER MAIN

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

- 1 - X 8x8
- 1 - AB 6-90
- 2 - V8
- 2 - VB-DD
- 1 - VB-D
- 2 - C6
- 1 - H (6.5)
- 4 - SLB
- 1 - RED 8x6 (2B)

30 - 1" CORPORATION STOP



**SCHEDULE**

TIME FOR COMPLETION: 120 TOTAL WORKING DAYS. ALL WORK IN S. 63RD ST., PLAN FILE NO.'S 2013046, 2013047, 2013048, AND 2013049, SHALL BE COMPLETED BY AUGUST 30, 2013. ALL OTHER WORK IN THIS CONTRACT SHALL BE COMPLETED BY DECEMBER 13, 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:

- S. 66TH ST. FROM 130' S/O W. ARTHUR AVE. TO W. CLEVELAND AVE., PLAN FILE NO.'S 2013040 AND 2013041 - 32 WORKING DAYS.
- S. 62ND ST. FROM W. HARRISON AVE. TO S. 63RD ST., PLAN FILE NO. 2013042 - 20 WORKING DAYS.
- W. WICK PL. FROM S. 67TH ST. TO S. 68TH ST., PLAN FILE NO. 2013043 - 18 WORKING DAYS.
- S. 61ST ST. FROM 195' N/O W. HARRISON AVE. TO W. HARRISON AVE., PLAN FILE NO. 2013044 - 10 WORKING DAYS.
- W. HARRISON AVE. FROM W. KINNICKINNICK RIVER PKWY. TO S. 62ND ST., PLAN FILE NO. 2013045 - 18 WORKING DAYS.
- S. 63RD ST. FROM W. HARRISON AVE. TO W. CLEVELAND AVE., PLAN FILE NO. 2013046 - 17 WORKING DAYS.
- S. 63RD ST. FROM 440' N/O W. HARRISON AVE. TO W. HARRISON AVE., PLAN FILE NO. 2013047 - 11 WORKING DAYS.
- S. 63RD ST. FROM W. CLEVELAND AVE. TO W. STACK DR., PLAN FILE NO.'S 2013048 AND 2013049 - 28 WORKING DAYS.

**BENCHMARKS**

- YARDWALK - 2634-36 S. 66TH ST., 1ST C.R., S.W. CORNER ELEV. 150.403
- YARDWALK - 2600 S. 66TH ST., 3RD C.R., S.W. CORNER ELEV. 144.740
- YARDWALK - 2550 S. 66TH ST., 1ST C.R., S.W. CORNER ELEV. 143.256
- STOOP - 2517 S. 66TH ST., N.E. CORNER ELEV. 147.790

**PLAN LINE & UTILITY LEGEND**

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

**TRAFFIC PROVISIONS**

MAINTAIN TWO WAY TRAFFIC.  
USE TEMPORARY "NO PARKING ANY TIME" SIGNS ON THE EAST SIDE.  
USE TEMPORARY "NO PARKING 7AM-5PM" SIGNS ON THE WEST SIDE.

**W. CLEVELAND AVE.**

DURING WORKING AND NON-WORKING HOURS, MAINTAIN ONE (1) 11'-0" MINIMUM TRAFFIC LANE FOR EACH DIRECTION.

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 V.I 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 414-286-3481.  
IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE STREET LIGHTING EQUIPMENT, THE CONTRACTOR SHALL CONTACT ENO-KIE LEE, IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.

**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.

PLAN NOTES ARE CONTINUED ON S. 66TH ST., SHEET 2 OF 2, PLAN FILE NO. 2013041.



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

**Milwaukee Water Works**  
Department of Public Works

**WATER MAIN**  
S. 66TH ST.  
130 FT. SOUTH OF W. ARTHUR AVE.  
W. CLEVELAND AVE.

APPROVED: *Mark Schaefer*  
DATE: 5-3-13  
SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS

PROGRAM NO. 2013-695 CONTRACT NO. C.C. FILE NO. 121553  
WORK ORDER WT41010225 D.W. & PROJECT NO. 13-87-1 DATE ADOPED 3-19-13

**SHEET NO. 1 OF 2 PLAN FILE NO. 2013040**