

**ESTIMATE OF QUANTITIES**

FOR BIDDING

- FURNISH PIPE AND INSTALL  
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 6 FT. - 16" WATER MAIN  
5 FT. - 8" WATER MAIN  
88 FT. - 6" HYDRANT BRANCH
- INSTALL  
3 - HYDRANT
- REMOVE  
3 - HYDRANT / MAJOR
- PERMANENT PAVEMENT  
40 SQ. YDS. - 8" CONCRETE  
40 SQ. YDS. - 3" ASPHALTIC CONCRETE  
40 SQ. YDS. - 8" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS  
170 BARS
- WALK  
60 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL  
LUMP SUM
- SAWCUTTING  
170 LIN. FT. - IN CONCRETE (FULL DEPTH)  
165 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- AGGREGATE SLURRY BACKFILL  
60 CU. YDS.
- FINISHING OF ROADWAY  
LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL  
LUMP SUM
- 135 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 16x6
- 1 - AT 8x6
- 7 - B6-45
- 2 - B6-90
- 2 - V6
- 2 - V8-DD
- 2 - H (7.0)
- 1 - H (6.5)
- 2 - SL6
- 2 - SL8

**PAVEMENT TYPE**

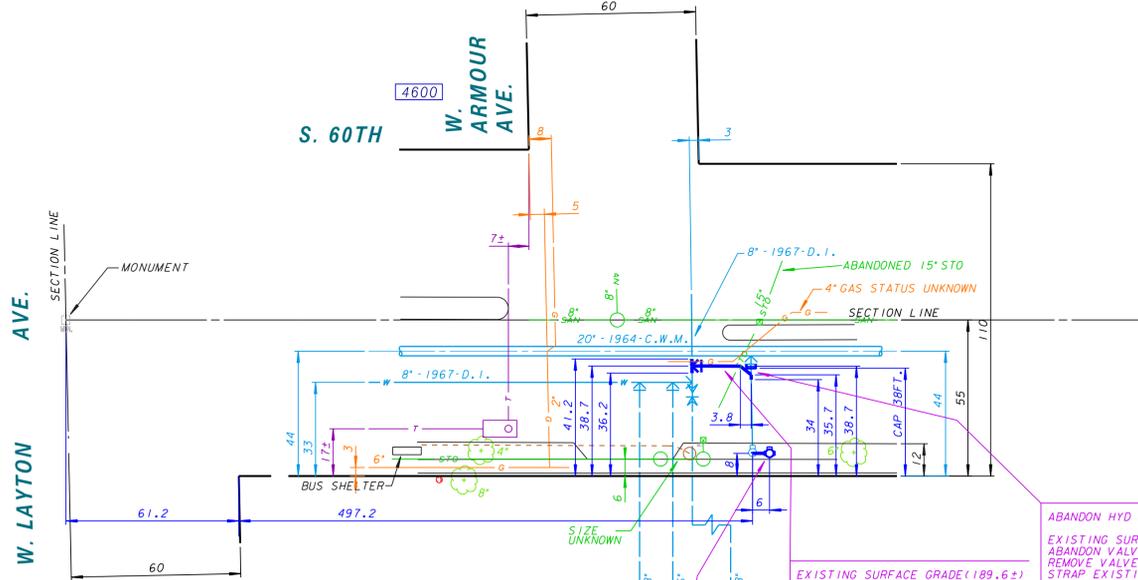
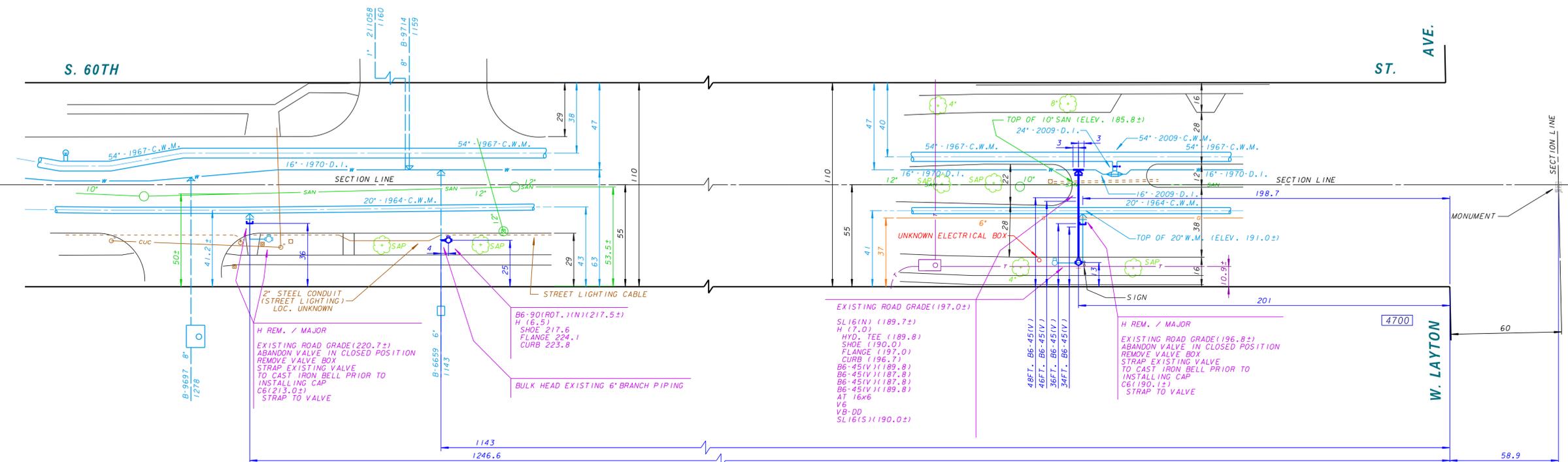
EXISTING PAVEMENT  
S. 60TH ST. IS 8" CONCRETE (1980)

**ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS**

6 FT. - 16"-1970-D.I. WATER MAIN  
5 FT. - 8"-1967-D.I. WATER MAIN  
4 - HYDRANT

**BENCHMARKS**

SEC PLUG @ S. 60TH & W. LAYTON AVE  
RR SPK IN WP E/S STA 14+81.2 (SOUTH OF PLUG)  
RR SPK IN WP E/S STA 25+94.6 (SOUTH OF PLUG)  
RR SPK IN W.P. E/S OF S. 60TH ST. 645' NORTH OF SEC PLUG  
RR SPK IN W.P. W/S @ +4477 S. 60TH ST.



FOR START OF PLAN NOTES SEE S. WATER ST. PLAN FILE NO. 2014014.

**CITY OF GREENFIELD CONTACTS**

RICHARD SOKOL, DIRECTOR OF NEIGHBORHOOD SERVICES, (414) 329-5324  
DANIEL EWERT, SUPERINTENDENT OF PUBLIC WORKS, (414) 761-5374  
JEFF KATZ, P.E., CITY ENGINEER (414) 939-8322  
POLICE DEPARTMENT, NON-EMERGENCY, (414) 761-5300

**CITY OF GREENFIELD NOTES**

**PERMITS**

- 1) PERMITS SHALL BE OBTAINED FROM THE ENGINEERING DEPARTMENT OF THE CITY OF GREENFIELD. CONTACT MR. JOHN WILLMS AT 414-329-5314.
- 2) THE CONTRACTOR MUST REGISTER WITH THE ENGINEERING DEPARTMENT AND PAY AN ANNUAL REGISTRATION FEE OF \$75. IN ADDITION, THE CONTRACTOR MUST APPLY TO THE DEPARTMENT FOR AN EXCAVATION PERMIT AND PAY THE REQUIRED FEE. THE MINIMUM FEE FOR THE EXCAVATION PERMIT SHALL BE \$40 PLUS AN ADDITIONAL \$10 PER 100 SQUARE FEET OF EXCAVATION, A STREET DEGRADATION CHARGE, AND CHARGE FOR PAVEMENT RESTORATION INSPECTION. TOTAL PERMIT FEES ARE TO BE DETERMINED BY THE CITY OF GREENFIELD. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.
- 3) A PERFORMANCE BOND, IN A SUM EQUAL TO THE AMOUNT OF THE WORK TO BE COMPLETED, WILL ALSO BE REQUIRED (A COPY OF THE CONTRACT BOND TO THE CITY OF MILWAUKEE WOULD MEET THIS REQUIREMENT)

**SCHEDULE**

1) THE CONTRACTOR SHALL PROVIDE THE CITY OF GREENFIELD ENGINEERING DEPARTMENT WITH A DETAILED SCHEDULE OF WORK.

**TRAFFIC CONTROL**

- 1) THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS TO ALL PROPERTIES AT ALL TIMES.
- 2) THE CONTRACTOR SHALL COMPLY WITH PART VI OF THE STATE OF WISCONSIN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 3) PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

**RESTORATION**

- 1) THE CITY OF GREENFIELD STREET RESTORATION STANDARDS, DATED JANUARY, 2002 SHALL BE FOLLOWED. (A COPY OF WHICH IS INCLUDED IN THE CONTRACT DOCUMENTS).
- 2) SLURRY BACKFILL SHALL BE REQUIRED FOR ALL ROADWAY PAVEMENT AND GRAVEL SHOULDER TRENCHES.
- 3) THE CONTRACTOR SHALL FILL ALL PAVEMENT JOINTS PER SECTION 2 (CONSTRUCTION DETAILS), LETTER H (RESTORATION), NUMBER 5 (JOINT FILLING), OF THE STREET RESTORATION STANDARDS. ALL CONSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PERMANENT PAVEMENT.
- 4) LAWN REPLACEMENT SHALL BE "TYPE A" (SOD) OR "TYPE B" (SEED, MULCH, FERTILIZER) PER THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", SECTION 5.16.20.

CALL DIGGERS HOTLINE  
1-800-242-8511  
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE 182.015 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE



<b>Milwaukee Water Works</b> Department of Public Works	
<b>WATER MAIN</b> <b>S. 60TH ST.</b> W. ALLERTON AVE. 1236' S/O W. LAYTON AVE.	
IN FROM TO	APPROVED DATE Patrick W. Paul 2-10-14 NEAL DESIGN ENGINEER
SCALE 1" = 30' 14 SEC. NO. 602 619 PLAN DATE 9-12-13 DRAWN BY A.P.J. CHECKED BY K.S.R. SURVEY BY CONST. SECTION	DATE 2-10-14 Mark J. Schell CHIEF DESIGN ENGINEER C. Williams SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROGRAM NO. 2013-676 PROJECT NO. WT410130676	CONTRACT NO. OFFICIAL NOTICE NO. 024-1-2014 C.C. FILE NO. 130363 DATE ADOPED 7-23-13
SHEET NO. 1 OF 1 PLAN FILE NO. 2014017	