

ESTIMATE OF QUANTITIES
FOR BIDDING

- FURNISH PIPE AND INSTALL
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
297 FT. - 8" WATER MAIN
- ABANDON
2 - 8" WATER MAIN
- SERVICES
1 - CONNECT ORIGINAL SERVICE (C.O.S. - LONG)
- PERMANENT PAVEMENT
200 SQ. YDS. - 8" CONCRETE (6 FT. REPLACEMENT WIDTH)
30 SQ. YDS. - 3" ASPHALTIC CONCRETE
30 SQ. YDS. - 9" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS
50 BARS
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
SAWCUTTING
100 LIN. FT. - IN CONCRETE (FULL DEPTH)
120 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- FINISHING OF ROADWAY
LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
LUMP SUM
- 230 CU. YDS. EXCESS EXCAVATED MATERIAL

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 1" 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 "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, WATERWORKS. 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.

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. BUTTRESSING 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) 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 BID FOR BARRICADES AND TRAFFIC CONTROL. 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.

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 BID FOR BARRICADES AND TRAFFIC CONTROL.

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

- 1 - AT 8x8
- 2 - T 8x8
- 2 - VB
- 2 - VB-DD
- 1 - VALVE BOX 18" EXT.
- 1 - VALVE BOX 24" EXT.
- 1 - CB
- 2 - PB
- 8 - SLB
- 1 - " CORPORATION STOP

PAVEMENT TYPE

EXISTING PAVEMENT IN

INTERSECTION - W. BALDWIN ST. TO W. FOND DU LAC AVE.,
W. T. A.C. (1979) ON 3" ASPHALT CONCRETE (1959)
ON 9" CONCRETE BASE (1959)

INTERSECTION - W. MEDFORD AVE. & W. BALDWIN ST.,
8" CONCRETE (1958)

W. BALDWIN ST. - W. FOND DU LAC AVE. TO W. MEDFORD AVE.,
8" CONCRETE (1959)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

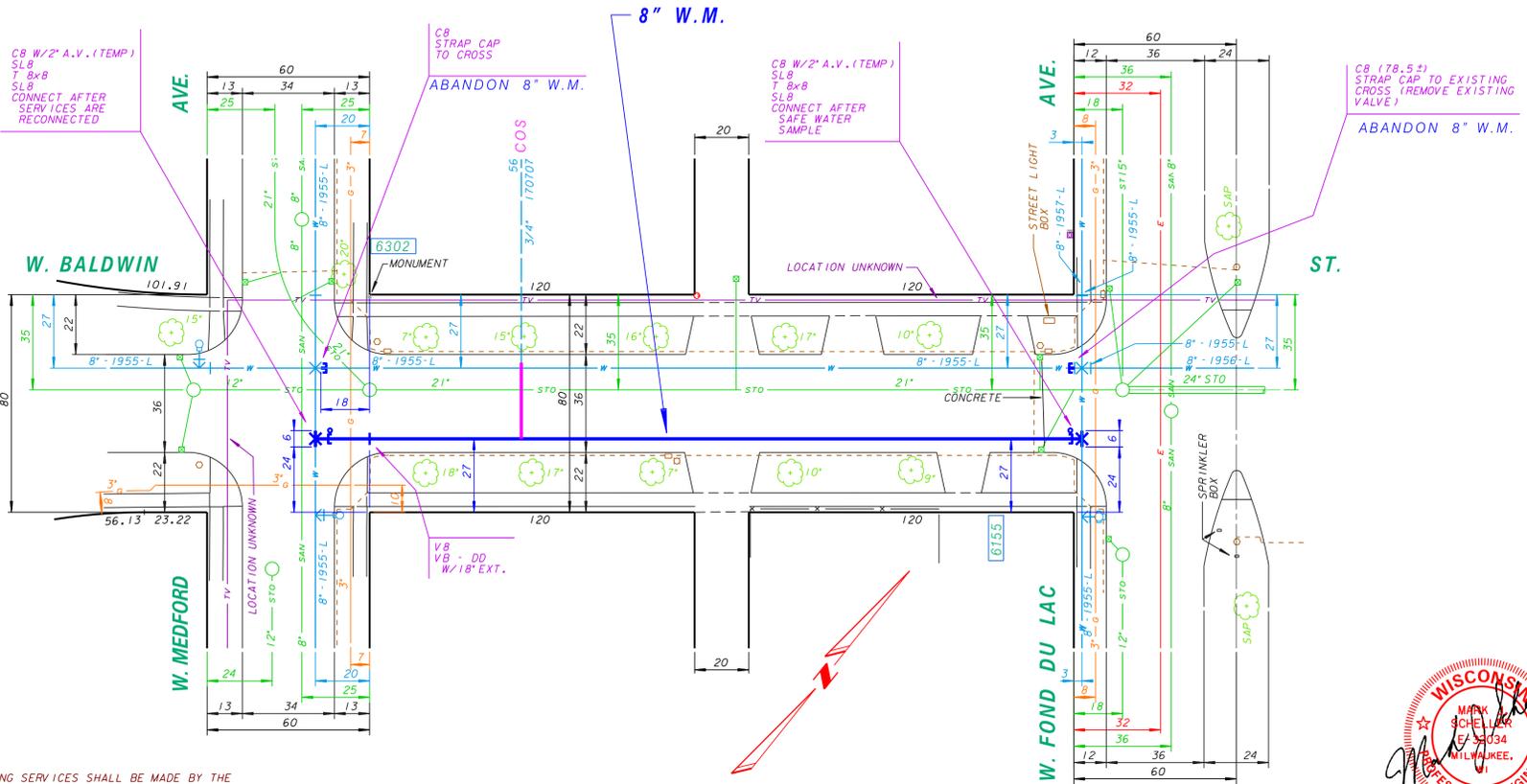
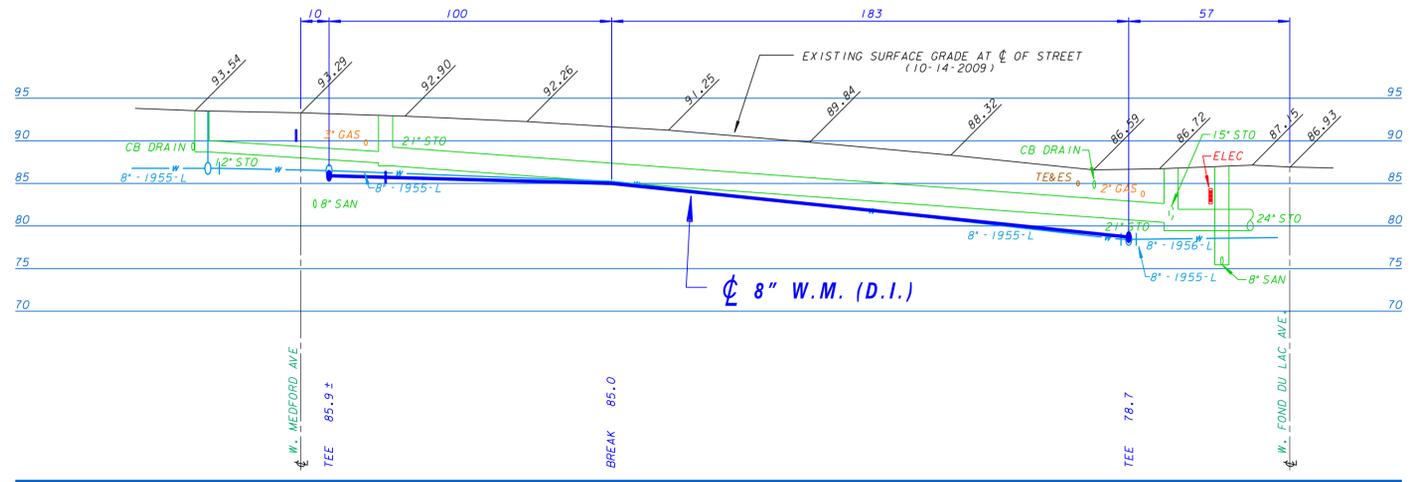
293 FT. - 8" 1955-L WATER MAIN

BENCHMARKS

HYD NW COR BALDWIN & MEDFORD ELEV. - 94.92
HYD SW/S FOND DU LAC @ BALDWIN ELEV. - 89.48

PLAN LINE & UTILITY LEGEND

GAS	G	SANITARY SEWER	S	STREET LIGHTING	SL
TELEPHONE	T	STORM SEWER	SS	CITY UNDERGROUND CONDUIT	CUC
CABLE TELEVISION	TV	COMBINED SEWER	CS	PROPOSED CURB - PVM	PC
FIBER OPTICS	FO	WATER MAIN	W	PAVING LIMITS	X
PROPOSED UTILITY	PU	WATER MAIN	W	STRUCTURE / BUILDING	S
		WATER SERVICE	WS	FENCE	F
		PRESSURE DISTRICT	PD		
POWER POLES	CONCRETE	ALUMINUM	WOOD	WATER MAIN VALVES	GATE
					BUTTERFLY
					W. SERVICE
UTILITIES	TRAFFIC SIGNAL	TRAFFIC CONTROL BOX	GAS VALVE	HYDRANTS	1 NOZZLE
					3 NOZZLE



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.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

USE TEMPORARY NO PARKING ANYTIME ON SOUTHSIDE OF W BALDWIN ST.

USE TEMPORARY NO PARKING 7AM TO 5PM ON NORTHSIDE OF W BALDWIN ST.

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 414-286-3481.

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.

SCHEDULE

ALL WORK ON THIS CONTRACT SHALL BE COMPLETED BY SEPTEMBER 6, 2013.

TIME FOR COMPLETION: 110 TOTAL WORKING DAYS.

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:

W. BALDWIN ST. FROM W. MEDFORD AV. TO W. FOND DU LAC AV.,
PLAN FILE NO. 2013012 - 12 WORKING DAYS.

N. 64TH ST. FROM W. CONGRESS ST. TO W. RUBY AV.,
PLAN FILE NO. 2013013 - 27 WORKING DAYS.

W. MEDFORD AV. FROM N. 64TH ST. TO N. 68TH ST.,
PLAN FILE NO. 2013014, 2013015, 2013016 - 48 WORKING DAYS.

W. FOND DU LAC AV. FROM W. CONSTANCE AV. TO W. HAMPTON AV.,
PLAN FILE NO. 2013017 - 17 WORKING DAYS.

W. HAMPTON AV. FROM W. FOND DU LAC AV. TO N. 68TH ST.,
PLAN FILE NO. 2013018 - 13 WORKING DAYS.

N. 65TH ST. FROM W. VILLARD AV. TO W. LAWN AV.,
PLAN FILE NO. 2013019, 22013020 - 34 WORKING DAYS.



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE (48.0715) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE



Milwaukee Water Works Department of Public Works		Water Engineering	
WATER MAIN			
W. BALDWIN ST.			
W. FOND DU LAC AVE.			
W. MEDFORD AVE.			
IN	DATE		
FROM	2-1-13		
TO	2-1-13		
SCALE	HORIZONTAL 1" = 30' VERTICAL 1" = 10'		
14 SEC. NO. 226	DESIGN ENGINEER		
PLAN DATE	2-25-10		
DRAWN BY	A.P.J. CHIEF DESIGN ENGINEER		
CHECKED BY	AJF		
SURVEY BY	CONST. SECTION		
PROGRAM NO.	2011-670	CONTRACT NO.	C.C. FILE NO. 101173
WORK ORDER	WT4101008	D.W. & PROJECT NO.	13-028-1
		DATE ADDED	2-8-11
SHEET NO. 1 OF 1 PLAN FILE NO. 2013012			

ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

- 794 FT. - 8" WATER MAIN
- 16 FT. - 12" WATER MAIN
- 6 FT. - 6" HYDRANT BRANCH

INSTALL

1 - HYDRANT

REMOVE

1 - HYDRANT / MINOR

SERVICES

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

PERMANENT PAVEMENT

525 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT WIDTH)

51 SQ. YDS. - 3" ASPHALTIC CONCRETE

FURNISH AND INSTALL DOWEL BARS

725 BARS

CURB AND GUTTER

672 LIN. FT. - CONCRETE

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

750 LIN. FT. - IN CONCRETE (FULL DEPTH)
198 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

565 CU. YDS. EXCESS EXCAVATED MATERIAL

PAVEMENT TYPE

EXISTING PAVEMENT IN

N. 64TH ST. - W. MARION ST. TO W. CONGRESS ST. 8" CONCRETE (1958)

INTERSECTION - N. 64TH ST. & W. CONGRESS ST. V.T.A.C. (1991) ON 8" CONCRETE (1958) - CRACKED & SEATED (1991)

N. 64TH ST. - W. CONGRESS ST. TO W. RUBY AVE. 8" CONCRETE (1959)

INTERSECTION - N. 64TH ST. & W. RUBY AVE. 8" CONCRETE (1959)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

- 690 FT. - 6" 1955-L WATER MAIN
- 93 FT. - 8" 1955-L WATER MAIN
- 16 FT. - 12" 1955-L WATER MAIN
- 7 FT. - 6" 1999-D.I. WATER MAIN
- 1 FT. - 8" 1999-D.I. WATER MAIN

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

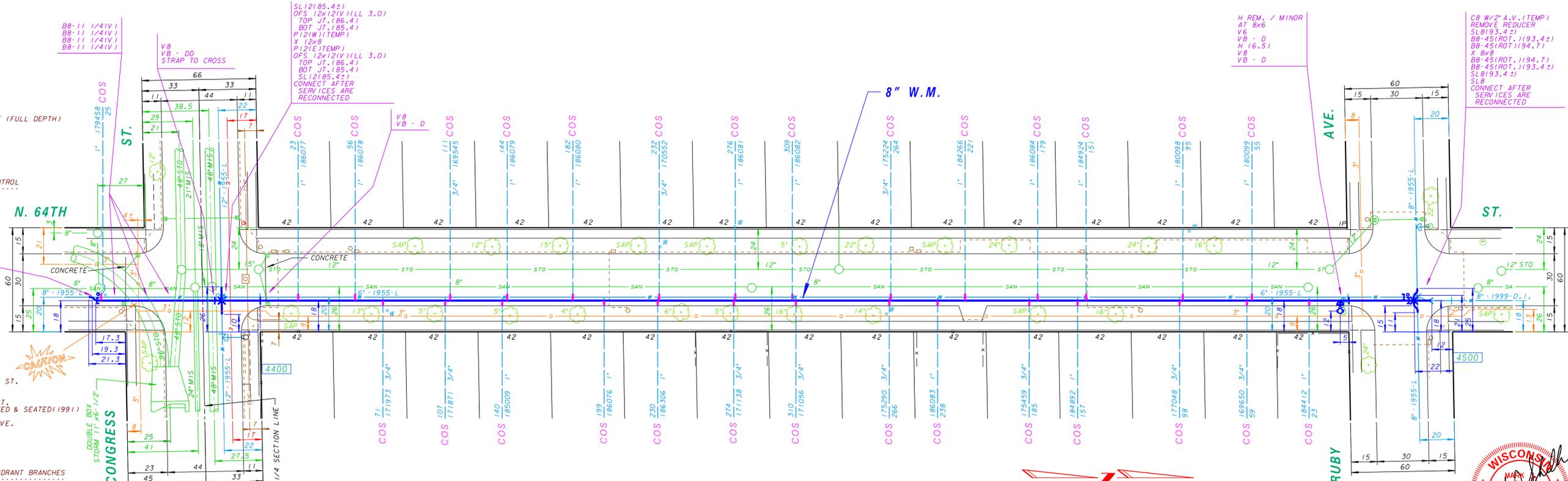
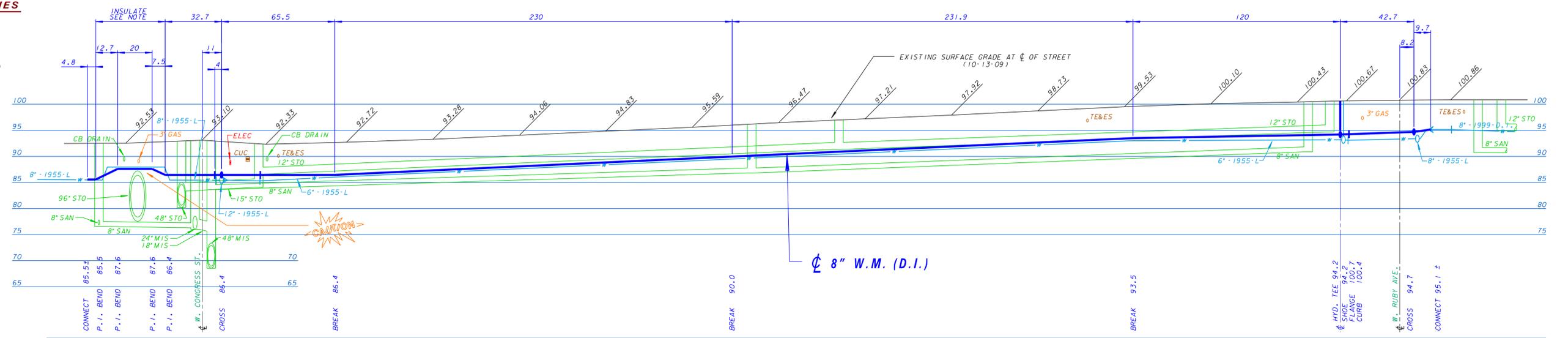
- 1 - AT 8x6
- 1 - X 12x8
- 1 - X 8x8
- 6 - BB-45
- 3 - BB-11 1/4
- 2 - OFS 12x12
- 3 - V8
- 1 - V6
- 1 - V8-DD
- 3 - V8-D
- 1 - CB
- 2 - H (16.5)
- 4 - SLB
- 29 - 1" CORPORATION STOP

BENCHMARKS

HYD NE COR 64TH & CONGRESS ELEV. 94.10
HYD SE COR 64TH & RUBY ELEV. 102.48

PLAN LINE & UTILITY LEGEND

GAS	○	SANITARY SEWER	—	STREET LIGHTING	—
ELECTRIC	—	STORM SEWER	—	CITY UNDERGROUND CONDUIT	—
TELEPHONE	—	COMBINED SEWER	—	PROPOSED CURB / PAVT	—
CABLE TELEVISION	—	WATER MAIN	—	PAVING LIMITS	—
FIBER OPTICS	—	WATER SERVICE	—	STRUCTURE / BUILDING	—
PROPOSED UTILITY	—	PRESSURE DISTRICT	—	FENCE	—
POWER POLES	○	CONCRETE	—	ALUMINUM	—
UTILITIES	□	TRAFFIC SIGNAL	—	TRAFFIC CONTROL BOX	—
	○	WOOD	—	WATER MAIN VALVES	—
	—	GATE	—	BUTTERFLY	—
	—	HYDRANTS	—	1 NOZZLE	—
	—		—	3 NOZZLE	—



TRAFFIC PROVISIONS

W CONGRESS ST., DURING WORKING AND NON-WORKING HOURS MAINTAIN ONE (1) 11'-0" MINIMUM TRAFFIC LANE, FOR EACH DIRECTION, ON THE PROPER SIDE OF THE ROAD.

MAINTAIN TWO WAY TRAFFIC.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

TEMPORARY NO PARKING ANYTIME FOR EASTSIDE OF N 64TH ST.

TEMPORARY NO PARKING 7AM TO 5PM FOR WESTSIDE OF N 64TH ST.

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 414-286-3481.

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.

INSULATION NOTE

CONTRACTOR SHALL INSULATE WATER MAIN PER SPEC. 5.11.1 AND SPEC. DRAWING NO. 37 IN ADDITION 2" OF INSULATION SHALL BE PLACED BENEATH THE WATER MAIN. SPEC. 5.11.5 COVERS THE PAYMENT OF INSULATING THE WATER MAIN.

FORESTRY

WHERE CURB AND GUTTER REMOVAL/REPLACEMENT BE DEEMED NECESSARY NEAR CITY STREET TREES ON N 64TH ST. EXCAVATION AT THE BACK OF CURB MUST BE LIMITED TO THE MINIMUM NECESSARY TO SET FORMS. TREE ROOTS AT THE BACK OF CURB ARE NOT TO BE CUT OR DISTURBED.



Milwaukee Water Works
Department of Public Works

Water Engineering

WATER MAIN

IN FROM TO: N. 64TH ST. W. CONGRESS ST. W. RUBY AVE.

SCALE: HORIZONTAL 1" = 30', VERTICAL 1" = 10'

14 SEC. NO. 250, 226

PLAN DATE: 2-22-10

DRAWN BY: A.P.J.

CHECKED BY: A.J.F.

SURVEY BY: CONST. SECTION

PROGRAM NO. 2011-671 CONTRACT NO. C.C. FILE NO. 101173

WORK ORDER WT410101009 D.W. & PROJECT NO. 13-028-1 DATE ADDED 2-8-11

SHEET NO. 1 OF 1 PLAN FILE NO. 2013013

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

ESTIMATE OF QUANTITIES

FOR BIDDING

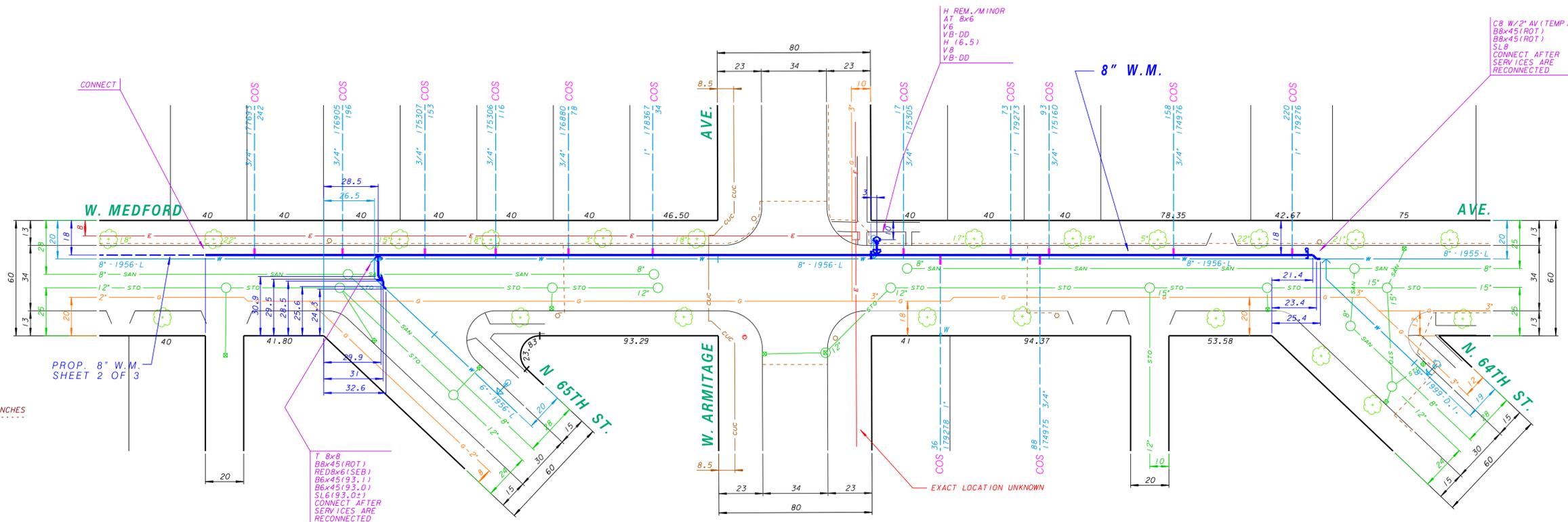
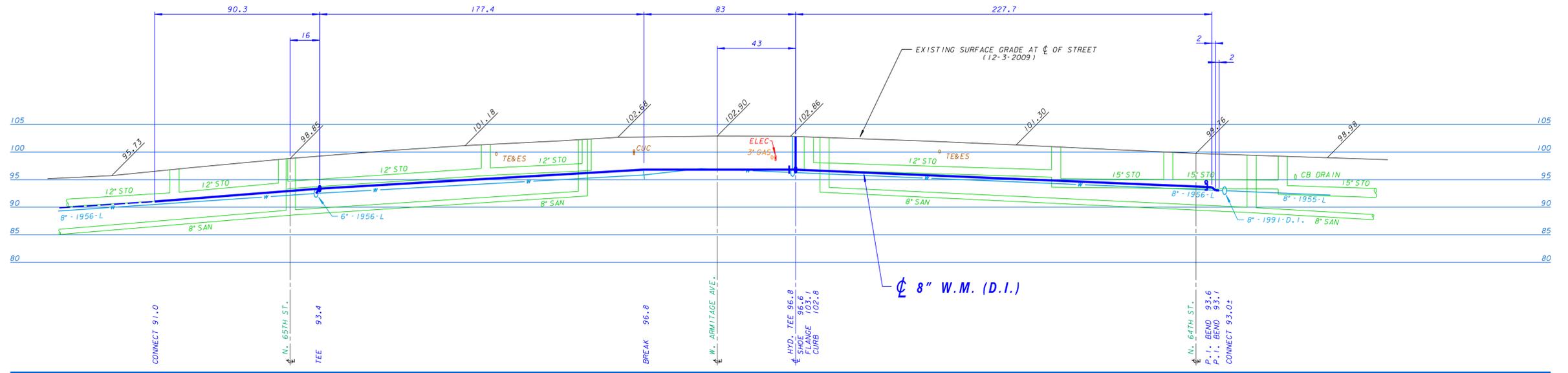
- FURNISH PIPE AND INSTALL
 (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
 596 FT. - 8" WATER MAIN
 7 FT. - 6" WATER MAIN
 8 FT. - 6" HYDRANT BRANCH
- INSTALL
 1 - HYDRANT
- REMOVE
 1 - HYDRANT / MINOR
- SERVICES
 13 - CONNECT ORIGINAL SERVICE (C.O.S. - SHORT)
- PERMANENT PAVEMENT
 510 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT)
- FURNISH AND INSTALL DOWEL BARS
 616 BARS
- BARRICADES AND TRAFFIC CONTROL
 LUMP SUM
- SAWCUTTING
 730 LIN. FT. - IN CONCRETE (FULL DEPTH)
- FINISHING OF ROADWAY
 LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
 LUMP SUM
- 425 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 - T 8x8
 - 3 - BB-45
 - 2 - BB-45
 - 1 - V8
 - 2 - VB-DD
 - 1 - H (6.5)
 - 1 - SL6
 - 1 - SL6
 - 1 - RED 8x6 (SEB)
 - 13 - 1" CORPORATION STOP
- PAVEMENT TYPE
 EXISTING PAVEMENT IN W. MEDFORD AVE. IS 8" (1958 & 1960) CONCRETE - REINFORCED
 EXISTING PAVEMENT IN THE INTERSECTION OF N. 68TH ST. & W. MEDFORD AVE. IS V.T.A.C. (1989) ON 8" (1960) CONCRETE - REINFORCED
- ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES
 58' - 8" 1956-L WATER MAIN
 18' - 6" 1956-L WATER MAIN

- FOR START OF PLAN NOTES SEE W. BALWIN ST., PF. NO. 2013012
- TRAFFIC PROVISIONS
 N. 68TH ST. DURING WORKING HOURS AND NON-WORKING HOURS MAINTAIN ONE (1) 11'-0" MINIMUM TRAFFIC LANE, FOR EACH DIRECTION, ON THE PROPER SIDE OF THE ROAD.
 MAINTAIN TWO WAY TRAFFIC.
 PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.
 TEMPORARY NO PARKING ANYTIME NORTHSIDE OF W MEDFORD AVE.
 TEMPORARY NO PARKING 7AM TO 5PM ON SOUTHSIDE OF W MEDFORD AVE.
 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 V1 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 ENG-KIE LEE IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.

- BENCHMARKS
 HYD. - S.E. CORNER OF N. 68TH ST. & W. MEDFORD AVE., ENE BOLT ELEVATION 100.15
 HYD. - N.W. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.42
 HYD. - S.E. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.05
 HYD. - S.E. CORNER OF N. 66TH ST. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.25
 HYD. - @ 630 W. MEDFORD AVE., N.W. BOLT ELEVATION 96.15
 HYD. - N.E. CORNER OF W. ARMITAGE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 104.90
 EAST END OF CONCRETE DOOR SILL @ 6360 W. MEDFORD AVE. ELEVATION 100.92

- PLAN LINE & UTILITY LEGEND
- | | | | | | |
|------------------|---|-------------------|---|--------------------------|---|
| GAS | ○ | SANITARY SEWER | — | STREET LIGHTING | — |
| ELECTRIC | ○ | STORM SEWER | — | CITY UNDERGROUND CONDUIT | — |
| TELEPHONE | ○ | COMBINED SEWER | — | PROPOSED CURB / PAVT | — |
| CABLE TELEVISION | ○ | WATER MAIN | — | PAVING LIMITS | — |
| FIBER OPTICS | ○ | WATER SERVICE | — | STRUCTURE / BUILDING | — |
| PROPOSED UTILITY | ○ | PRESSURE DISTRICT | — | FENCE | — |
| POWER POLES | ○ | CONCRETE | ○ | ALUMINUM | ○ |
| | ○ | WOOD | ○ | WATER MAIN VALVES | + |
| | ○ | GATE | + | BUTTERFLY | + |
| | ○ | WATER SERVICE | + | | |
| UTILITIES | ○ | TRAFFIC SIGNAL | ○ | TRAFFIC CONTROL BOX | ○ |
| | ○ | GAS VALVE | ○ | HYDRANTS | ○ |
| | ○ | 1 NOZZLE | ○ | 3 NOZZLE | ○ |



Milwaukee Water Works Department of Public Works	
WATER MAIN W. MEDFORD AVE. N. 64TH ST. TO N. 68TH ST.	
IN: W. MEDFORD AVE. FROM: N. 64TH ST. TO: N. 68TH ST.	APPROVED: <i>[Signature]</i> DATE: 2-1-13 SCHEDULED DESIGN ENGINEER CHECKED BY: S. MILLER DATE: 2-1-13 SURVEY BY: CONST. SECTION DATE: 2-1-13 SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS
PROGRAM NO. 2011-672 WORK ORDER WT4101010	CONTRACT NO. _____ O.M. & PROJECT NO. 13-028-1 C.C. FILE NO. 101173 DATE ADDED: 2-8-11
SHEET NO. 1 OF 3 PLAN FILE NO. 2013014	

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

ESTIMATE OF QUANTITIES

FOR BIDDING

- FURNISH PIPE AND INSTALL
- (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 752 FT. - 8" WATER MAIN
- 16 FT. - 6" HYDRANT BRANCH
- INSTALL
- 2 - HYDRANT
- REMOVE
- 2 - HYDRANT / MINOR
- SERVICES
- 19 - CONNECT ORIGINAL SERVICE (C.O.S. - SHORT)
- PERMANENT PAVEMENT
- 635 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT)
- FURNISH AND INSTALL DOWEL BARS
- 765 BARS
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
- SAWCUTTING
- 780 LIN. FT. - IN CONCRETE (FULL DEPTH)
- FINISHING OF ROADWAY
- LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
- LUMP SUM
- 525 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 - X 8x8
- 2 - T 8x8
- 5 - BB-45
- 2 - V8
- 2 - V6
- 2 - VB-DD
- 2 - VB-D
- 1 - H (6.0)
- 1 - H (6.5)
- 4 - SLB
- 17 - 1" CORPORATION STOP
- 2 - 1 1/2" CORPORATION STOP
- 2 - 8" x 1 1/2" SERVICE SADDLE

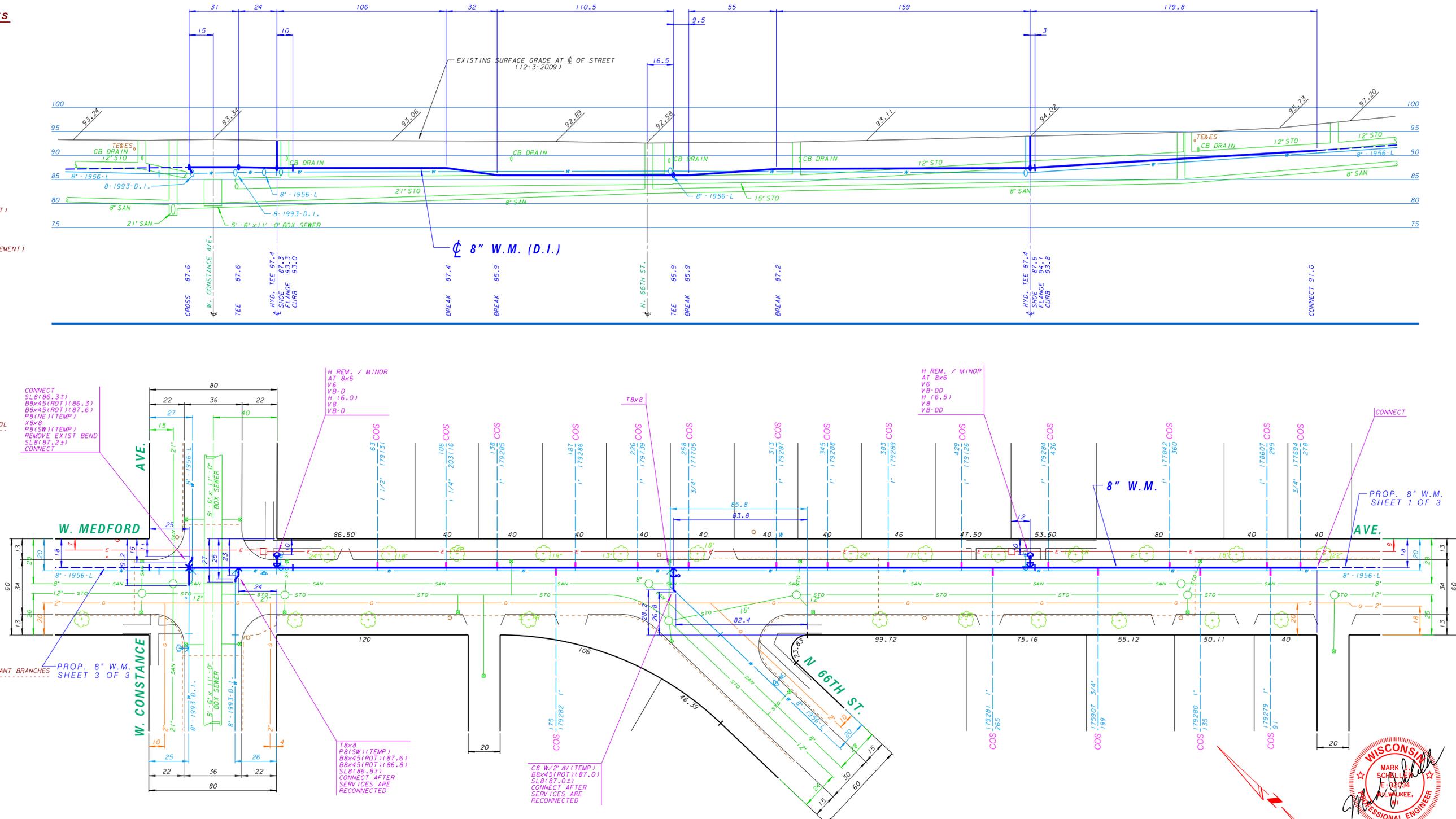
PAVEMENT TYPE
EXISTING PAVEMENT IN W. MEDFORD AVE. IS 8" (1958 & 1960) CONCRETE - REINFORCED

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES
17' - 8" 1993-D.I. WATER MAIN
729' - 8" 1956-L WATER MAIN

- BENCHMARKS
- HYD. - S.E. CORNER OF N. 68TH ST. & W. MEDFORD AVE., ENE BOLT ELEVATION 100.15
 - HYD. - N.W. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.42
 - HYD. - S.E. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.05
 - HYD. - S.E. CORNER OF N. 66TH ST. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.25
 - HYD. - @ 6530 W. MEDFORD AVE., N.W. BOLT ELEVATION 96.15
 - HYD. - N.E. CORNER OF W. ARMITAGE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 104.90
 - EAST END OF CONCRETE DOOR SILL @ 6360 W. MEDFORD AVE. ELEVATION 100.92

PLAN LINE & UTILITY LEGEND

GAS	○	SANITARY SEWER	—	STREET LIGHTING	—
ELECTRIC	—	STORM SEWER	—	CITY UNDERGROUND CONDUIT	—
TELEPHONE	—	COMBINED SEWER	—	PROPOSED CURB / PVM	—
CABLE TELEVISION	—	WATER MAIN	—	PAVING LIMITS	—
FIBER OPTICS	—	WATER SERVICE	—	STRUCTURE / BUILDING	—
PROPOSED UTILITY	—	PRESSURE DISTRICT	—	FENCE	—
POWER POLES	○	CONCRETE	○	ALUMINUM	○
UTILITIES	□	TRAFFIC SIGNAL	□	TRAFFIC CONTROL BOX	□
	○	GAS VALVE	○	HYDRANTS	○
	○	1 NOZZLE	○	3 NOZZLE	○
	○	WATER MAIN VALVES	+	GATE	+
	○	BUTTERFLY	○	SERVICE	○



FOR START OF PLAN NOTES SEE W. BALDWIN ST., PF. NO. 2013012



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE (82.015) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

Milwaukee Water Works
Department of Public Works

WATER MAIN
W. MEDFORD AVE.
N. 64TH ST. TO N. 68TH ST.

SCALE: HORIZONTAL 1" = 30', VERTICAL 1" = 10'

IN CHARGE: *Mark Schaller*
DESIGN ENGINEER

DATE: 2-1-13

PROGRAM NO. 2011-672 CONTRACT NO. C.C. FILE NO. 101173
WORK ORDER WT410101010 D.W. & PROJECT NO. 13-028-1 DATE ADDED 2-8-11

SHEET NO. 2 OF 3 PLAN FILE NO. 2013015

ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

14 FT. - 12" WATER MAIN
600 FT. - 8" WATER MAIN
11 FT. - 6" BRANCH PIPE

SERVICES

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

PERMANENT PAVEMENT

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

FURNISH AND INSTALL DOWEL BARS

651 BARS

CURB AND GUTTER

10 LIN. FT. - CONCRETE

DRIVEWAY

100 SQ. FT. - CONCRETE

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

570 LIN. FT. - IN CONCRETE (FULL DEPTH)
160 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

415 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 - T 12x8
- 1 - T 8x6
- 1 - B8-45
- 2 - B6-45
- 2 - V8
- 2 - VB-DD
- 1 - VB-DD
- 1 - C8
- 4 - SL12
- 1 - SL6

- 4 - 1" CORPORATION STOP
- 1 - 2" CORPORATION STOP
- 1 - 8"x2" SERVICE SADDLE

PAVEMENT TYPE

EXISTING PAVEMENT IN W. MEDFORD AVE. IS 8" (1958 & 1960) CONCRETE - REINFORCED

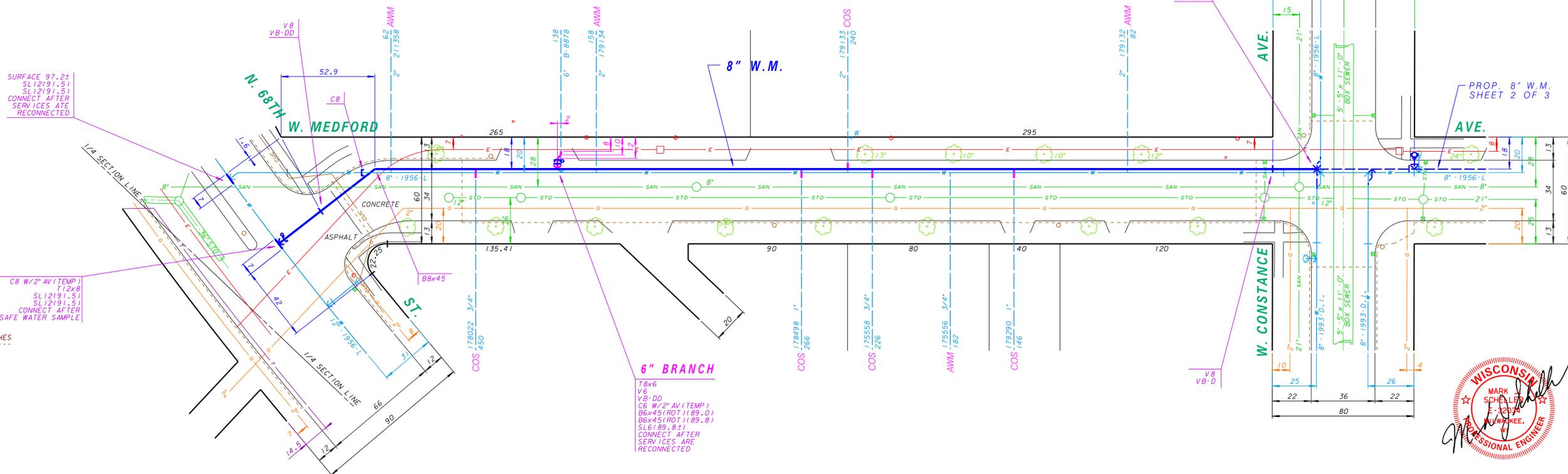
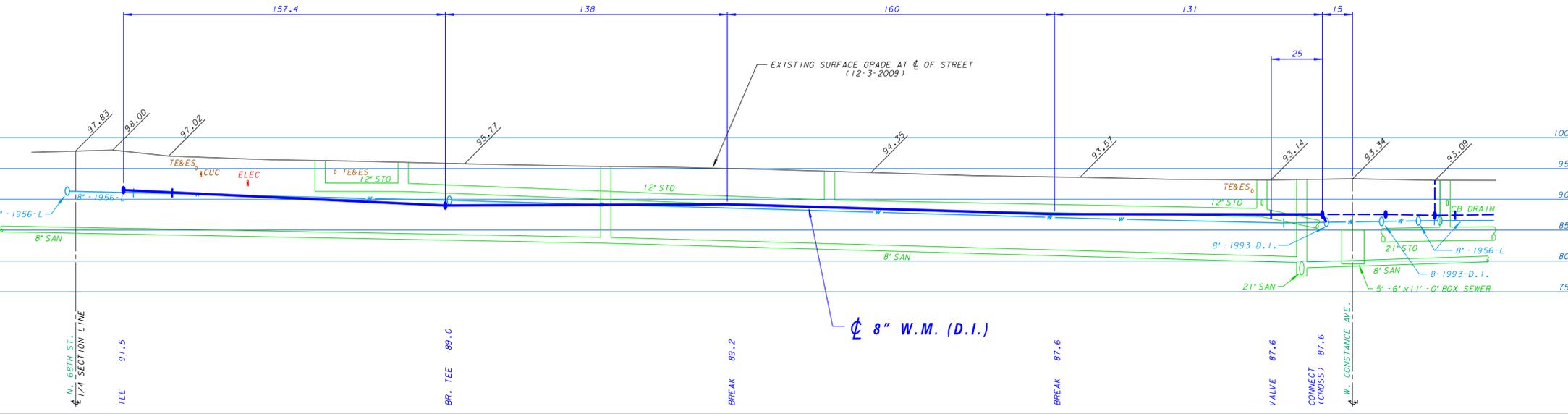
EXISTING PAVEMENT IN THE INTERSECTION OF N. 68TH ST. & W. MEDFORD AVE. IS CONCRETE - REINFORCED

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

14' - 12" - 1956-L WATER MAIN
617' - 8" - 1956-L WATER MAIN

BENCHMARKS

- HYD. - S.E. CORNER OF N. 68TH ST. & W. MEDFORD AVE., ENE BOLT ELEVATION 100.15
- HYD. - N.W. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.42
- HYD. - S.E. CORNER OF W. CONSTANCE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.05
- HYD. - S.E. CORNER OF N. 66TH ST. & W. MEDFORD AVE., N.W. BOLT ELEVATION 95.25
- HYD. - @ 6530 W. MEDFORD AVE., N.W. BOLT ELEVATION 96.15
- HYD. - N.E. CORNER OF W. ARMITAGE AVE. & W. MEDFORD AVE., N.W. BOLT ELEVATION 104.90
- EAST END OF CONCRETE DOOR SILL @ 6360 W. MEDFORD AVE. ELEVATION 100.92



FOR START OF PLAN NOTES SEE W. BALDWIN ST., PF. NO. 2013012



PLAN LINE & UTILITY LEGEND		
GAS	○	SANITARY SEWER
ELECTRIC	○	STORM SEWER
TELEPHONE	○	CITY UNDERGROUND CONDUIT
CABLE TELEVISION	○	COMBINED SEWER
FIBER OPTICS	○	WATER MAIN
PROPOSED UTILITY	○	WATER SERVICE
POWER POLES	○	PRESSURE DISTRICT
UTILITIES	○	STREET LIGHTING
	○	PROPOSED CURB / PVM
	○	PAVING LIMITS
	○	STRUCTURE / BUILDING
	○	FENCE
	○	WATER MAIN VALVES
	○	GATE
	○	BUTTERFLY
	○	WATER SERVICE
	○	HYDRANTS
	○	1 NOZZLE
	○	3 NOZZLE

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND BEFORE YOU DIG. WISCONSIN STATUTE (82.015) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO.	BY	REVISION	DATE

Milwaukee Water Works
Department of Public Works

WATER MAIN
W. MEDFORD AVE.
N. 64TH ST.
N. 68TH ST.

IN SCALE: HORIZONTAL 1" = 30', VERTICAL 1" = 10'

FROM 14 SEC. NO. 226

TO PLAN DATE: 2-5-10

DRAWN BY: S. MILLER

CHECKED BY: AJF

SURVEY BY: CONST. SECTION

PROGRAM NO. 2011-672 CONTRACT NO. C.C. FILE NO. 101173

WORK ORDER WT4101010 D.W. & PROJECT NO. 13-028-1 DATE ADDED: 2-8-11

SHEET NO. 3 OF 3 PLAN FILE NO. 2013016

APPROVED: *Mark Scheller* DATE: 2-1-13
SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS

DESIGNED BY: *Mark Scheller* DATE: 2-1-13
CHIEF DESIGN ENGINEER

ESTIMATE OF QUANTITIES
FOR BIDDING

- FURNISH PIPE AND INSTALL
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 517 FT. - 8" WATER MAIN
18 FT. - 6" HYDRANT BRANCH
- INSTALL
- 2 - HYDRANT
- REMOVE
- 2 - HYDRANT / MINOR
- SERVICES
- 2 - CONNECT ORIGINAL SERVICE (C.O.S. - SHORT)
- PERMANENT PAVEMENT
- 280 SQ. YDS. - 3" ASPHALTIC CONCRETE
280 SQ. YDS. - 9" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS
- 520 - BARS
- WALK
- 85 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
- SAWCUTTING
- 1080 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- FINISHING OF ROADWAY
- LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
- LUMP SUM
- 400 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
- 4 - BB-45
- 1 - BB-22 1/2
- 3 - V8
- 2 - V6
- 3 - VB-DD
- 2 - VB-D
- 1 - CB
- 1 - H (6.0)
- 1 - H (6.5)
- 3 - SLB
- 2 - 1 1/2" CORPORATION STOP
- 2 - 8"x 1 1/2" SERVICE SADDLE

PAVEMENT TYPE

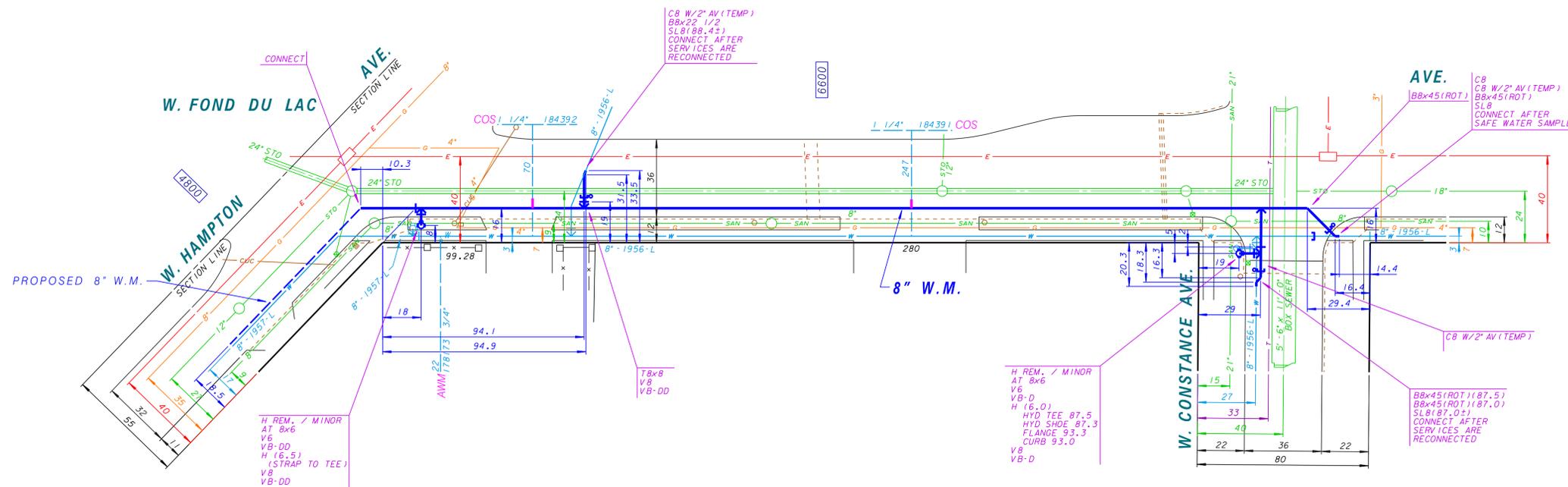
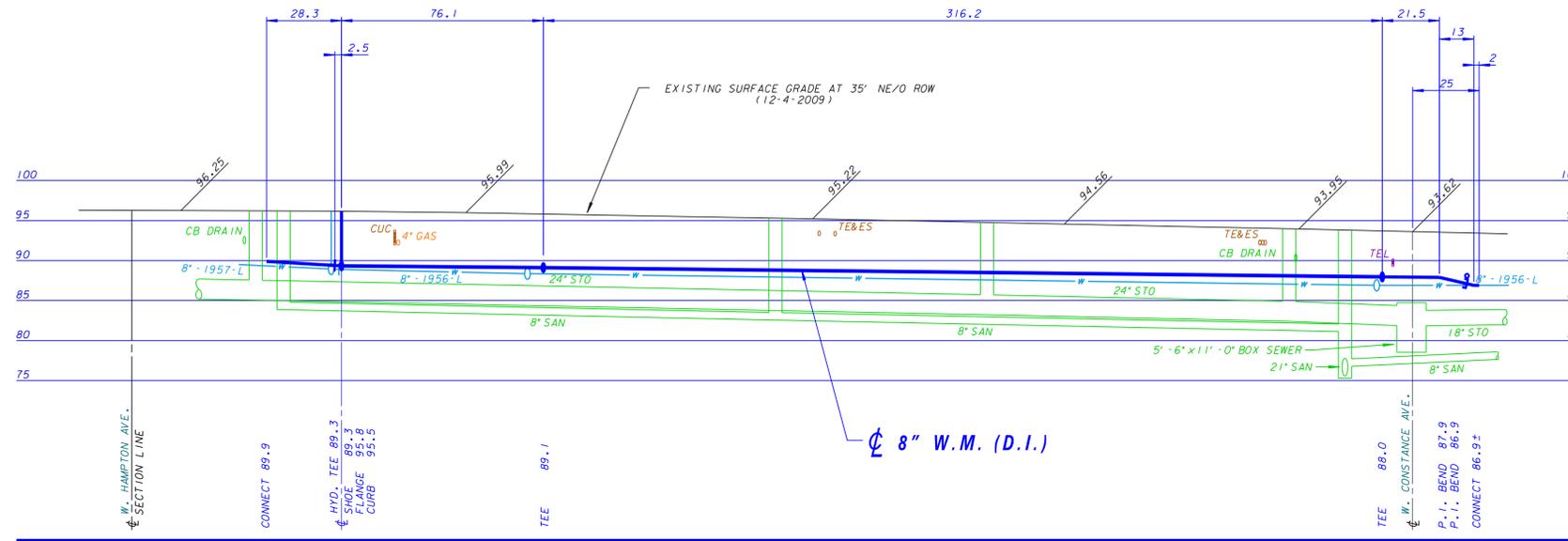
EXISTING PAVEMENT IN THE INTERSECTION OF W. FOND DU LAC AVE. & W. HAMPTON AVE.
3" (1996) ASPHALT CONCRETE ON 9" (1959) CONCRETE BASE

EXISTING PAVEMENT IN W. FOND DU LAC AVE. IS V.T.A.C. (1979) ON 3" (1959) ASPHALT CONCRETE ON 9" (1959) CONCRETE BASE

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

39' - 8"-1957-L WATER MAIN
523' - 8"-1956-L WATER MAIN

FOR START OF PLAN NOTES SEE W. BALDWIN ST., PF. NO. 2013012



- BENCHMARKS
- HYD. - S.W. CORNER OF W. FOND DU LAC AVE. & W. HAMPTON AVE., OPERATING NUT ELEVATION 98.46
- HYD. - S.W. CORNER OF W. FOND DU LAC AVE. & W. CONSTANCE AVE., N.N.W. BOLT ELEVATION 94.80

PLAN LINE & UTILITY LEGEND

GAS	G	SANITARY SEWER	SS	STREET LIGHTING	SL
ELECTRIC	E	STORM SEWER	SS	CITY UNDERGROUND CONDUIT	CUC
TELEPHONE	T	COMBINED SEWER	CS	PROPOSED CURB / PVM	PC
CABLE TELEVISION	TV	WATER MAIN	WM	PAVING LIMITS	PL
FIBER OPTICS	FO	WATER SERVICE	WS	STRUCTURE / BUILDING	S/B
PROPOSED UTILITY	PU	PRESSURE DISTRICT	PD	FENCE	F
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

NO WARK ALLOWED 6:30 AM TO 8:30 AM

DURING WORKING HOURS MAINTAIN ONE (1) 11'-0" MINIMUM TRAFFIC LANE, FOR EASTBOUND DIRECTION, ON THE PROPER SIDE OF THE ROAD.

DURING NON-WORKING HOURS MAINTAIN TWO (2) 11'-0" MINIMUM TRAFFIC LANES, FOR EASTBOUND DIRECTION, ON THE PROPER SIDE OF THE ROAD.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

TEMPORARY NO PARKING ANYTIME ON SOUTH SIDE OF W FOND DU LAC AVE.

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 414-286-3481.

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.

TRAFFIC SIGNAL NOTE

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.

NO.	BY	REVISION	DATE

Milwaukee Water Works
Department of Public Works

WATER MAIN

W. FOND DU LAC AVE.
W. HAMPTON AVE.
W. CONSTANCE AVE.

IN FROM TO

APPROVED: *Mark J. Scheider* DATE: 2-1-13
SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS

CHIEF DESIGN ENGINEER

CHIEF DESIGN ENGINEER

PROGRAM NO. 2011-673 CONTRACT NO. C.C. FILE NO. 101173
WORK ORDER WT41010111 D.W. & PROJECT NO. 13-028-1 DATE ADOPED 2-8-11

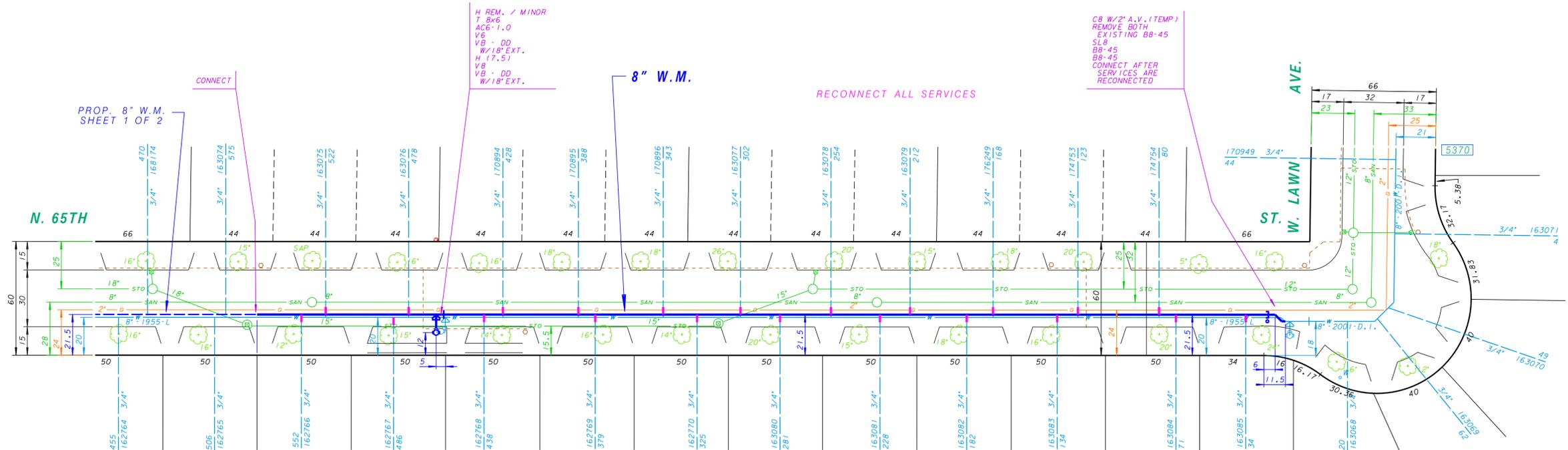
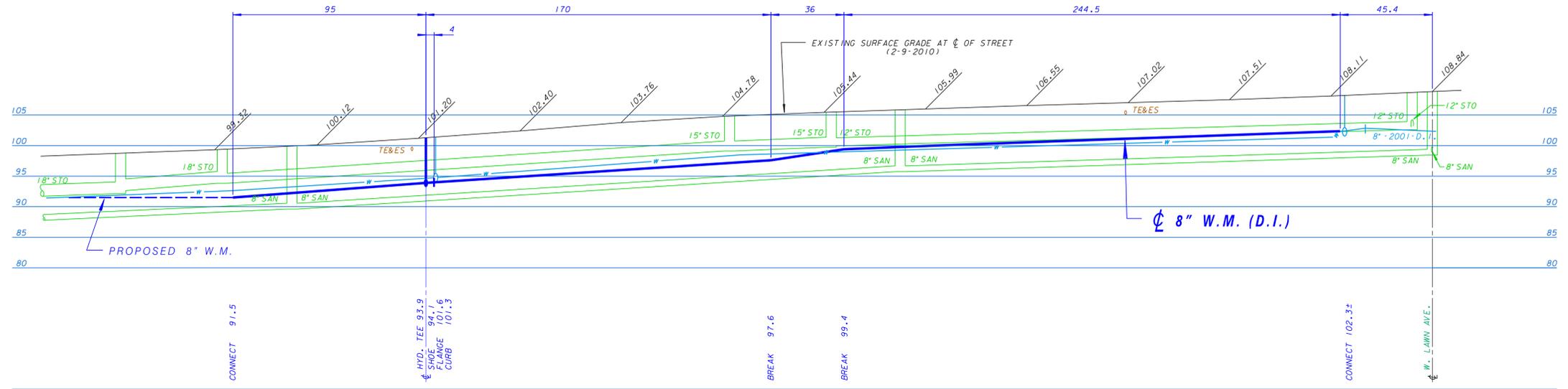
SHEET NO. 1 OF 1 PLAN FILE NO. 2013017



ESTIMATE OF QUANTITIES

FOR BIDDING

- FURNISH PIPE AND INSTALL
(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 548 FT. - 8" WATER MAIN
- 10 FT. - 6" HYDRANT BRANCH
- INSTALL
- 1 - HYDRANT
- REMOVE
- 1 - HYDRANT / MINOR
- SERVICES
- 22 - CONNECT ORIGINAL SERVICE (C.O.S. - SHORT)
- PERMANENT PAVEMENT
- 550 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT)
- FURNISH AND INSTALL DOWEL BARS
- 550 BARS
- CURB AND CUTTER
- 6 LIN. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
- SAWCUTTING
- 555 LIN. FT. - IN CONCRETE (FULL DEPTH)
- FINISHING OF ROADWAY
- LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
- LUMP SUM
- 415 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 - T 8x6
- 2 - BB-45
- 1 - VB
- 2 - VB-DD
- 1 - AC6-1.0
- 1 - SLB
- 2 - VALVE BOX 18" EXT.
- 1 - H (7.5)
- 22 - 1" CORPORATION STOP

PAVEMENT TYPE

EXISTING PAVEMENT IN
N. 65TH ST. - W. VILLARD AVE. TO W. LAWN AVE.
7" CONCRETE (1960)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

543 FT. - 8" 1955-L WATER MAIN
4 FT. - 8" 2001-D.I. WATER MAIN

BENCHMARKS

HYD SE COR N 65TH ST & W VILLARD AV ELEV. 95.67
HYD E/S OF N 65TH ST AT W LAWN AV ELEV. 110.72

FOR START OF PLAN NOTES SEE W. BALDWIN ST., PF. NO. 2013012

PLAN LINE & UTILITY LEGEND

GAS	— G —	SANITARY SEWER	— S —	STREET LIGHTING	— SL —
ELECTRIC	— E —	STORM SEWER	— ST —	CITY UNDERGROUND CONDUIT	— CUC —
TELEPHONE	— T —	COMBINED SEWER	— CS —	PROPOSED CURB / PVM	— CUC —
CABLE TELEVISION	— TV —	WATER MAIN	— W —	PAVING LIMITS	— X —
FIBER OPTICS	— FO —	WATER SERVICE	— WS —	STRUCTURE / BUILDING	— / —
PROPOSED UTILITY	— PU —	PRESSURE DISTRICT	— PD —	FENCE	— X —
POWER POLES	○ CONCRETE	ALUMINUM	○ ALUM	WOOD	○ WOOD
WATER MAIN VALVES	— GATE	— BUTTERFLY	○ SERVICE		
UTILITIES	□ TRAFFIC SIGNAL	□ TRAFFIC CONTROL BOX	○ GAS VALVE	HYDRANTS	○ 1 NOZZLE
					○ 3 NOZZLE

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

Milwaukee Water Works
Department of Public Works

Water Engineering

WATER MAIN

N. 65TH STREET
W. VILLARD AVE.
W. LAWN AVE.

SCALE: HORIZONTAL 1" = 30', VERTICAL 1" = 10'

14 SEC. NO. 189 211
PLAN DATE 5-5-2010
DRAWN BY A.P.J.
CHECKED BY P.W.P.
SURVEY BY CONST. SECTION

PROGRAM NO. 2011-690
WORK ORDER WT410101020

CONTRACT NO.
D.M. & PROJECT NO. 13-028-1

C.C. FILE NO. 101173
DATE ADDED 2-8-11

SHEET NO. 2 OF 2
PLAN FILE NO. 2013020

APPROVED: *Mark J. Schelle*
MARK J. SCHELLE
E-3234
MILWAUKEE, WI
PROFESSIONAL ENGINEER