

SPECIAL PROVISIONS FOR PLAN FILE NUMBER 241-42, 241-43, 241-44, 241-45, 241-46 AND 242-76 ONLY

1. STANDARD SPECIAL PROVISIONS, PLAN FILE NUMBER 52-4-51, DATED MAY 1, 2013 (OR LATEST REVISION THERE OF), ARE PART OF THIS CONTRACT.

2. ALL WORK WITHIN THE PROJECT LIMITS SHALL BE COMPLETED BY MAY 30, 2016. NO OPEN CUT WORK SHALL BE ALLOWED BEFORE FEBRUARY 15, 2016. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR HOURS TOWARDS COMPLETION OF THE PROJECT.

3. THIS PROJECT HAS BEEN SUBMITTED TO THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT (MMSD) AND THE DEPARTMENT OF NATURAL RESOURCES (DNR) FOR APPROVALS. NO WORK SHALL BE PERFORMED ON THIS CONTRACT UNTIL MMSD AND DNR APPROVALS HAVE BEEN OBTAINED. APPROVALS ARE CURRENTLY ANTICIPATED TO BE OBTAINED BY FEBRUARY 8, 2016; HOWEVER THERE IS NO GUARANTEE OF SAME. THE CONSTRUCTION ENGINEER SHALL CONTACT MR. ANDY KAMINSKI (MMSD) AT (414) 225-2219 TO CONFIRM THAT THE APPROVALS HAVE BEEN GRANTED.

4. NORTH 27TH STREET BETWEEN WEST HIGHLAND BOULEVARD AND WEST LISBON AVENUE IS ON THE 2016 STATE PAVING PROGRAM FOR 3-INCH ASPHALTIC RESURFACING. THIS PAVING PROJECT IS SCHEDULED FOR LET ON MAY 10, 2016. PAVING WORK IS SCHEDULED TO START IN LATE JUNE OF 2016.

5. 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 NORTH 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. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A SAMPLE NOTICE IS INCLUDED IN THE CONTRACT DOCUMENTS. 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.

6. THE CONTRACTOR SHALL POST CITY OF MILWAUKEE PROJECT IDENTIFICATION ("BLUE") SIGNS AS DIRECTED ON EACH PROJECT IN THIS CONTRACT. THE CITY WILL PROVIDE BLANK SIGNS FOR THE CONTRACTOR TO FILL IN CONTACT INFORMATION AND POST.

7. THE CONTRACTOR SHALL VISUALLY INSPECT THE PROJECT SITE, MANHOLES IN THE FIELD, AND/OR VIEW THE AVAILABLE VIDEOS AND WRITTEN EXAMINATIONS OF THE SEWER AND MANHOLES PRIOR TO BIDDING. PLEASE NOTE THAT THE EXISTING VIDEOS DO NOT EXAMINE THE ENTIRE MANHOLE STRUCTURE. VIDEO EXAMINATIONS ARE AVAILABLE FOR VIEWING IN ROOM 821 AT 841 NORTH BROADWAY. PLEASE CONTACT MR. ZAFAR YOUSUF AT (414) 286-2467 TO ARRANGE TO VIEW THE VIDEOS.

8. ALL CONNECTIONS FOR BUILDING SEWERS AND DRAINS OF RECORD HAVE BEEN SHOWN ON THE PLAN. ALL ACTIVE BUILDING SEWERS SHALL BE RECONNECTED OR RE-ESTABLISHED TO THE NEWLY RELAID AND/OR LINED SEWERS. THE CONTRACTOR SHALL FIELD VERIFY, INCLUDING DYE TESTING, ALL ACTIVE LATERALS AND SHALL ONLY RECONNECT LATERALS WHICH ARE FOUND TO BE ACTIVE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BIDS FOR BUILDING SEWERS AND DRAINS OR RE-ESTABLISH CONNECTIONS, RESPECTIVELY.

9. IN ADDITION TO THE ALLOWABLE 1-1/2 INCH GRADED AGGREGATE, AS PER TABLE 39 OF SECTION 8.43.7 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR IS ALSO ALLOWED TO USE 1-1/4 INCH GRADED AGGREGATE. THE 1-1/4 INCH GRADED AGGREGATE SHALL MEET THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARDS, AS PER SECTION 305 DENSE GRADED BASE, CONFORMING TO THE TABLE LISTED AS "PERCENT PASSING BY WEIGHT" IN 2012 WISDOT STANDARD SPECIFICATIONS, SUBSECTION 305.2.2.1 GENERAL.

10. A FLAT TOP SLAB IS REQUIRED FOR ALL MANHOLES THAT ARE 6'-0" DIAMETER OR LARGER. THE INSTALLATION HEIGHT OF THE FLAT TOP SLAB SHALL BE 72-INCHES ABOVE THE BENCH OF THE MANHOLE. FOR THE PROPOSED 10'-0" DIAMETER COMBINED MANHOLE ON PLAN FILE NO. 241-46, THE FLAT TOP SLAB SHALL BE AT LEAST 24-INCHES ABOVE THE CROWN OF THE EXISTING 18-INCH DIAMETER BRICK SEWER. THE COST OF THE FLAT TOP SLAB SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE DIAMETER COMBINED MANHOLE.

11. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL THE EXISTING UTILITIES WHILE RELAYING THE RESPECTIVE DIAMETER SEWERS. ALL UTILITIES SHALL BE SUPPORTED. THE COST OF SUPPORTING, RAT HOLLING, OR TUNNELING UNDER THE EXISTING UTILITIES NECESSARY FOR THE PROPOSED SEWER RELAY SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED SEWER RELAY, CLASS 'C' BEDDING OR CLASS 'C' BEDDING.

12. ON PLAN FILE NO. 241-45, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AROUND THE WE ENERGIES ELECTRIC MANHOLE (MH7019) IN THE INTERSECTION OF NORTH 28TH STREET AND WEST JUNEAU AVENUE. THE WALLS OF THE MANHOLE WERE CONSTRUCTED USING CINDER BLOCK AND SHALL BE PROTECTED BY USING TIGHT SHEATHING OR ANY OTHER ACCEPTABLE CONSTRUCTION METHOD TO ENSURE THAT NO DAMAGE OCCURS TO THE STRUCTURE WHEN RELAYING THE SEWER ADJACENT TO IT. THE SEWER CONTRACTOR SHALL CONTACT KENNETH FRANECKI AT (414) 944-5531 AT LEAST FIVE (5) DAYS BEFORE THE START OF CONSTRUCTION TO COORDINATE THIS WORK WITH A CREW FROM WE ENERGIES.

IF DURING CONSTRUCTION, THE WE ENERGIES MANHOLE IS DAMAGED, THE CONTRACTOR SHALL CALL MR. KENNETH FRANECKI IMMEDIATELY. ANY REPAIR WORK NECESSARY SHALL BE PERFORMED BY THE WE ENERGIES CREW AT WE-ENERGIES' EXPENSE.

ANY DAMAGE TO THE WE ENERGIES MANHOLE (MH 7019) DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN UNIT BID PRICE FOR THE 36-INCH DIAMETER COMBINED SEWER, CLASS 'C' BEDDING.

13. THE CONTRACTOR SHALL SUPPORT CITY OF MILWAUKEE UNDERGROUND CONDUIT (CUC) FACILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL USE EXTREME CAUTION AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGING THE CUC FACILITIES. THE CONDUIT CONTAINS VITAL COMMUNICATIONS CABLES THAT MUST REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO CITY OF MILWAUKEE FACILITIES. CONTACT THE CITY DISPATCHER AT (414) 286-3481 IMMEDIATELY IF DAMAGE OCCURS.

14. THE CITY OF MILWAUKEE HAS STREET LIGHTING FACILITIES AND PIPE CABLE CROSSINGS AT VARIOUS LOCATIONS THROUGHOUT THE PROJECT. DURING OPEN CUT TRENCHING, THE CONTRACTOR SHALL SUPPORT THESE CROSSINGS. ANY ALTERATIONS NEEDED TO THE CITY OF MILWAUKEE STREET LIGHTING FACILITIES MUST BE APPROVED BY THE STREET LIGHTING DEPARTMENT. THE CONTRACTOR SHALL PAY A SERVICE FEE OF APPROXIMATELY \$2,200 TO \$4,500 FOR EACH STREET LIGHTING POLE WHERE ALTERATIONS ARE NEEDED; HOWEVER, IF ANY ADDITIONAL WORK IS REQUIRED FOR THE ALTERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST.

THE SUCCESSFUL CONTRACTOR MUST PAY THE NECESSARY SERVICE FEE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PROOF OF THE PAYMENT TO THE CONSTRUCTION ENGINEER PRIOR TO STARTING ANY REQUIRED STREET LIGHTING AND TRAFFIC SIGNAL ALTERATIONS WORK. THE CONTRACTOR SHALL CONTACT MR. ENG-KIE LEE AT (414) 286-2174 FOR ALL NECESSARY STREET LIGHTING ALTERATIONS. THE CONTRACTOR SHALL CONTACT MR. JOSEPH BONDOWSKI AT (414) 286-5162 FOR ALL NECESSARY TRAFFIC SIGNAL ALTERATIONS.

ANY DAMAGE TO THE CITY-OWNED STREET LIGHTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED BY THE CITY'S STREET LIGHTING DEPARTMENT AT THE CONTRACTOR'S EXPENSE. ANY DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT (414) 286-3481.

15. THERE ARE VARIOUS OVERHEAD WIRES WITHIN THE PROJECT LIMITS THAT MAY REQUIRE TEMPORARY RELOCATIONS. THE COST OF ANY RELOCATION OF OVERHEAD UTILITIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED SEWER RELAY, CLASS 'C' BEDDING.

16. THERE ARE EXISTING CITY OF MILWAUKEE TREES WITHIN THE PROJECT LIMITS. NO TREE PRUNING/TRIMMING WORK SHALL BE DONE BY THE SEWER CONTRACTOR. ANY REQUIRED PRUNING WILL BE DONE BY THE FORESTRY DEPARTMENT BEFORE PROJECTED START DATE. ANY TREE REMOVALS MUST BE FIRST APPROVED BY THE FORESTRY DEPARTMENT. THE COST OF ANY REMOVALS SHALL BE INCLUDED IN THE BID PRICE OF THE RESPECTIVE SEWER WORK. THE CONTRACTOR SHALL CONTACT MR. DWAYNE REINHARDT, FORESTRY INSPECTOR, AT (414)708-2438 REGARDING ANY FORESTRY TREE WORK.

17. ON PLAN FILE NO. 241-43, THE 18-INCH TREE WILL NEED TO BE REMOVED PRIOR TO MANHOLE EXCAVATION. ALL WORK AND MATERIALS NECESSARY TO REMOVE THE EXISTING TREE SHALL BE INCLUDED IN THE UNIT BID PRICE. THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO, A COMPLETE REMOVAL OF THE EXISTING TREE AND COMPLETE CLEANING OF THE AREA OF THE STUMP AND ALL SURFACE ROOTS. TREE WORK SHALL BE DONE BY A LICENSED, INSURED, AND CERTIFIED TREE CARE PROFESSIONAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR TREES, CLEARING AND TREES, GRUBBING.

18. ON PLAN FILE NO. 241-43, THE CONTRACTOR SHALL BE REQUIRED TO TUNNEL UNDERNEATH THE BELL-AMERITECH MANHOLE LOCATED IN THE WALKWAY AT NORTH 26TH STREET AND WEST GALENA STREET WHILE RELAYING THE 30-INCH DIAMETER COMBINED SEWER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 30-INCH DIAMETER COMBINED SEWER, CLASS 'C' BEDDING.

19. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AND ACCESS TO ALL ADJOINING PROPERTIES AT ALL TIMES.

ONE ELEVEN (11) FOOT LANE OF TRAFFIC FOR EACH DIRECTION SHALL BE MAINTAINED IN NORTH 27TH STREET AND WEST GALENA STREET AT ALL TIMES. ONE ELEVEN (11) FOOT LANE OF TRAFFIC SHALL BE MAINTAINED IN WEST JUNEAU AVENUE, WEST VLIET STREET, WEST CHERRY STREET, AND WEST WALNUT STREET AT ALL TIMES.

WITHIN THE INTERSECTION OF NORTH 27TH STREET AND WEST JUNEAU AVENUE, THE CONTRACTOR SHALL RESTORE THE SURFACE IN THE AREA OF THE SEWER TRENCH WITH 3-INCH TEMPORARY BITUMINOUS SURFACE AND/OR PLATE THE SEWER TO ALLOW THE FREE FLOW OF TRAFFIC. DURING CONTRACTOR NON-WORKING HOURS (EVENINGS AND WEEKENDS), THE COST OF RESTORATION AND/OR PLATING THE SEWER TRENCH SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 36-INCH DIAMETER COMBINED SEWER, CLASS 'C' BEDDING.

20. IF THE CONTRACTOR PERFORMS OPEN-CUT WORK OUTSIDE OF NORTH 27TH STREET WHEN PERMANENT PAVEMENT IS UNAVAILABLE DUE TO THE WINTER SEASON, 3-INCH TEMPORARY BITUMINOUS SURFACE SHALL BE INSTALLED AND MAINTAINED AT THE CONTRACTOR'S EXPENSE UNTIL PERMANENT PAVEMENT CAN BE RESTORED. ALL PAYMENTS FOR THE TEMPORARY ASPHALTIC PAVEMENT SHALL BE PAID BASED ON THE SCHEDULE OF FIXED PRICES, NO TRENCH SHALL BE LEFT UNPAVED FOR MORE THAN FIVE (5) DAYS OR AS ORDERED BY THE CONSTRUCTION ENGINEER.

21. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL PLAN OUTLINING TRAFFIC FLOW PATTERNS AROUND THE WORK ZONE AND ACCESS TO BUSINESSES AND RESIDENCES TO MR. JAMES BROWN OF THE CITY OF MILWAUKEE TRAFFIC OPERATIONS SECTION, MUNICIPAL BUILDING, ROOM 920. CONTACT MR. JAMES BROWN AT (414) 286-3276 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.

22. ALL SIGNS USED FOR TRAFFIC CONTROL SHALL MEET THE NEW NATIONAL REQUIREMENTS FOR SIGN RETROREFLECTIVITY STANDARDS.

23. THE CONTRACTOR SHALL CONTACT MR. JAMES BROWN AT (414) 286-3276 OF THE CITY OF MILWAUKEE TRANSPORTATION SECTION AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE PROJECT REGARDING THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS. THE CONTRACTOR SHALL ALSO CONTACT MR. BROWN TO ARRANGE FOR THE REMOVAL OF SIGNS IN THE PROJECT LIMITS AFTER CONSTRUCTION WORK IS COMPLETED.

24. NORTH 27TH STREET AND WEST VLIET STREET ARE MILWAUKEE COUNTY TRANSIT SYSTEM BUS ROUTES. NO CONSTRUCTION EQUIPMENT SHALL BE STORED IN NORTH 27TH STREET OR WEST VLIET STREET. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE ANY TRAFFIC DISRUPTIONS CAUSED BY PROPOSED SEWER WORK ON THIS CONTRACT.

25. WEST JUNEAU AVENUE BETWEEN NORTH 27TH AND NORTH 28TH STREETS IS A ONE-WAY STREET IN THE EASTBOUND DIRECTION.

26. THE CONTRACTOR SHALL CONTACT MR. MIKE CHANESKE AT (414) 286-5965 OF THE CITY OF MILWAUKEE TRAFFIC SECTION IF STREET SIGNS OR STOP SIGNS ARE DAMAGED OR DISTURBED DURING CONSTRUCTION. THE CONTRACTORS ARE DIRECTED TO MAKE A CALL FOR ANY REINSTALLATION OF THE SIGNS. THE CITY CREW WILL REINSTALL THE SIGNS AFTER COMPLETION OF SEWER WORK.

27. THE CONTRACTOR SHALL PROVIDE THE CITY WITH TWO (2) COPIES OF A POST-INSTALLATION DVD EXAMINATION AND REPORT OF THE SEWER. THESE VIDEO EXAMS WILL BECOME THE PROPERTY OF THE CITY OF MILWAUKEE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SEWER EXAMS BY CCTV. POST-CONSTRUCTION FOR THE RELAY PORTION OF THE PROJECT AND THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING FOR THE LINING PORTION OF THIS PROJECT.

28. ALL PAVEMENT REPLACEMENT IN NORTH 27TH STREET SHALL CONSIST OF 3-INCH BITUMINOUS TEMPORARY SURFACE ON CONCRETE BASE. ALL PAVEMENT REPLACEMENT IN THE EAST LANE OF THE INTERSECTION OF WEST JUNEAU AVENUE AND NORTH 27TH STREET AS WELL AS THE PAVEMENT IN WEST WALNUT STREET EAST OF NORTH 27TH STREET SHALL CONSIST OF 3-INCH ASPHALTIC CONCRETE OVER CONCRETE BASE. PAVEMENT RESTORATION WITHIN THE REST OF WEST JUNEAU AVENUE SHALL CONSIST OF 4-INCH ASPHALTIC CONCRETE. PAVEMENT REPLACEMENT WITHIN WEST GALENA STREET EAST OF NORTH 27TH STREET SHALL CONSIST OF CONCRETE PAVEMENT. ALL PAVEMENT RESTORATION ELSEWHERE WITHIN THE PROJECT LIMITS SHALL BE LIMITED TO A WIDTH OF THE OUTSIDE DIAMETER OF THE PIPE PLUS FOUR FEET, CENTERED ON THE PROPOSED PIPES.

29. AT LEAST THREE DAYS IN ADVANCE OF ANY CURED-IN-PLACE LINER INSTALLATION, THE CONTRACTOR SHALL CONTACT THE MILWAUKEE FIRE DEPARTMENT (MFD) AT (414) 286-8999. THE CONTRACTOR SHALL PROVIDE THE DUTY SUPERVISOR A PROJECT MAP AND DESCRIPTION INCLUDING MATERIAL SAFETY DATA SHEET (MSDS) DETAIL SHEET REGARDING THE RESPECTIVE SEWER AND MANHOLE LINING PROJECT.

30. THE COMBINED SEWERS MAY HAVE LIGHT TO MODERATE DEPOSITS. REMOVAL OF DEPOSITS AND ALL CLEANING WORK NECESSARY FOR THE INSTALLATION OF THE CURED-IN-PLACE LINER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

31. THE CONTRACTOR MAY USE EXISTING MANHOLES AS WORKSHAFTS. IF REQUIRED, THE CONTRACTOR SHALL REMOVE THE CORBEL OF THE EXISTING MANHOLE FOR CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL REPLACE THE CORBEL SECTION AFTER THE COMPLETION OF CONSTRUCTION WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

32. PRIOR TO ORDERING ANY MATERIAL FOR THE CURED-IN-PLACE LINING THE CONTRACTOR IS REQUIRED TO EXAMINE ALL COMBINED SEWER MAINS THAT ARE PROPOSED TO BE CURED-IN-PLACE LINED. IF A LINER CANNOT BE INSTALLED IN THE PIPE DUE TO DEFECTS, OR THE PIPE WOULD NOT FUNCTION EFFICIENTLY OR PROPERLY WITH A LINER INSTALLED, THE CONTRACTOR IS REQUIRED TO SUBMIT A DVD AND REPORT OF THE DEFECT TO THE ENVIRONMENTAL ENGINEERING SECTION (EES) FOR THEIR REVIEW. ONCE THE SEWER SEGMENT IS REVIEWED BY THE EES, IT MAY BE DELETED FROM THE CONTRACT. THE REVIEW PROCESS IS ESTIMATED TO TAKE UP TO 5 BUSINESS DAYS FOR EACH DEFECT. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

33. THE MINIMUM FLEXURAL MODULUS FOR THE RESPECTIVE DIAMETER SEWER LINING SHALL BE AT LEAST 250,000 PSI. HOWEVER, THE CONTRACTOR HAS THE OPTION OF USING A FLEXURAL MODULUS OF 400,000 PSI OR HIGHER AT NO ADDITIONAL COST TO THE CITY. THE FLEXURAL MODULUS SHALL BE IN CONFORMANCE TO THE MINIMUM VALUES LISTED PER SPECIFICATION ASTM D790. THE CURED-IN-PLACE LINER THICKNESS SHALL CONFORM TO THE FOLLOWING VALUES:

PIPE DIAMETER	250,000 PSI	400,000 PSI
12 IN	7.5 MM/0.30 IN	6.0 MM/0.24 IN
12x18 IN	7.5 MM/0.30 IN	6.0 MM/0.24 IN
18 IN	12.0 MM/0.47 IN	10.5 MM/0.41 IN
30 IN	18.0 MM/0.71 IN	15.0 MM/0.59 IN
36 IN (GALENA)	16.5 MM/0.65 IN	15.0 MM/0.59 IN
36 IN (JUNEAU/VLIET)	22.5 MM/0.89 IN	19.5 MM/0.77 IN
60 IN (GALENA)	30.0 MM/1.18 IN	25.5 MM/1.00 IN

IF HIGHER STRENGTH FLEXURAL MODULUS OF GREATER THAN 400,000 PSI IS USED, THE CONTRACTOR SHALL SUBMIT THE LINER THICKNESS COMPUTATION TO CONSTRUCTION ENGINEER FOR APPROVAL FROM ENVIRONMENTAL ENGINEERING SECTION. THE LINER THICKNESS SHALL BE CONSISTENT THROUGHOUT THE PROJECT LIMITS. THE CONTRACTOR SHALL SUBMIT INDEPENDENT THIRD-PARTY TEST RESULTS SHOWING THE SHORT-TERM FLEXURAL MODULUS OF THE PRODUCT TO BE USED TO THE CONSTRUCTION ENGINEER. THE TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER SANITARY SEWER CURED-IN-PLACE LINING.

34. A SCHEDULE OF WATER AND HYDRANT SERVICE CHARGES OF MILWAUKEE WATER WORKS EFFECTIVE DECEMBER 15, 2014 (OR LATEST REVISION THEREOF), FOR SEWER FLUSHING AND LINING (ENCLOSED IN THE BID PACKAGE), IS A PART OF THIS CONTRACT. PLEASE CONTACT MILWAUKEE WATER WORKS AT (414) 286-8000 FOR ANY QUESTIONS RELATED TO HYDRANT FEES AND DEPOSITS. ALL PERMIT FEES AND DEPOSITS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

35. IN THE WORKSHAFT AREAS THE PAVEMENT SHALL BE REPLACED TO THE SAME KIND AND IT WAS PRIOR TO CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE PAVEMENT REPLACEMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE WORKSHAFT.

36. IF THE CONTRACTOR REQUIRES ANY ADDITIONAL WORK SHAFTS FOR CONSTRUCTION PURPOSES, THE COST OF CONSTRUCTING THE ADDITIONAL WORK SHAFTS AND RESTORING THE SEWER AND THE WORK SHAFT AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK SHAFT.

37. THE CONTRACTOR SHALL BACKFILL THE ENTIRE AREA OF THE WORK SHAFT WITH SLURRY BACKFILL. THE COST OF SLURRY BACKFILL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK SHAFT.

38. THE CONTRACTOR WILL BE REQUIRED TO HANDLE ALL FLOW DURING CONSTRUCTION. THE CONTRACTOR SHALL BYPASS THE FLOW FROM THE EXISTING COMBINED SEWER AND SHALL KEEP IN PLACE AN ALTERNATE PLAN TO PUMP OR BYPASS THE FLOW IN THE EVENT OF ENCOUNTERING WET WEATHER FLOW DURING CONSTRUCTION OPERATION. SEWER SYSTEMS PLANS SHOWING POSSIBLE PUMPING LOCATIONS ARE AVAILABLE FOR VIEWING BY CONTACTING MR. ZAFAR YOUSUF AT (414) 286-2467. THE COST OF BYPASSING OR PUMPING ALL FLOW AROUND THE PROJECT AND OBTAINING THE NECESSARY BYPASS PERMITS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORK SHAFT.

39. ON PLAN FILE NO. 241-44, THE CONTRACTOR SHALL FABRICATE A LINER TRANSITION BETWEEN THE 12" X 18" COMBINED SEWER AND THE 18-INCH DIAMETER COMBINED SEWER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

40. ON PLAN FILE NO. 241-43, THE SEWER RELAY EXTENDS INTO MILWAUKEE COUNTY RIGHT-OF-WAY AT THE EAST END OF THE PROJECT (SEWER EASEMENT 2112). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMIT FROM THE COUNTY PRIOR TO STARTING WORK ON COUNTY PROPERTY. NO WORK WITHIN COUNTY OWNED LANDS SHALL COMMENCE PRIOR TO THE CONTRACTOR RETAINING ANY PERMITS REQUIRED.

41. DETAILS OF THE CONCRETE COLLARS ARE SHOWN ON THE PLAN. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL OF THE EXISTING UTILITIES WHILE INSTALLING THE CONCRETE COLLARS. ALL THE COSTS ASSOCIATED WITH INSTALLING THE CONCRETE COLLARS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONCRETE COLLAR.

42. THE CONTRACTOR SHALL REMOVE A PORTION OF THE EXISTING CONCRETE CONNECTION AND BUILD A NEW 96-INCH CLASS V RCP CONNECTION TO THE EXISTING 78-INCH FIBERGLASS MORTAR LINER PIPE. THE CONTRACTOR SHALL BUILD A CONCRETE COLLAR AS SHOWN ON THE DETAIL. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE CONCRETE COLLAR.

43. THE CITY OF MILWAUKEE HAS APPLIED FOR FUNDING FOR ALL PROJECTS IN THIS CONTRACT THROUGH THE CLEAN WATER FUND (CWF) LOAN ADMINISTERED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. THIS CONTRACT IS SUBJECT TO THE DAVIS-BACON COMPLIANCE PROVISIONS. THE CONTRACTOR SHALL USE THE HIGHER WAGE RATE TABLE BETWEEN THE PREVAILING WAGE RATE ISSUED BY THE STATE OF WISCONSIN AND THE DAVIS BACON WAGE RATE TABLES AS ISSUED BY THE U.S. DEPARTMENT OF LABOR WAGE AND HOUR DIVISION. THE CONTRACTOR SHALL SUBMIT WEEKLY PAYROLL CERTIFICATION, UTILIZING THE PAYROLL FORM INCLUDED IN THE CONTRACT DOCUMENTS OR EQUIVALENT.

44. ALL IRON AND STEEL PRODUCTS PROVIDED BY THE CONTRACTOR SHALL BE PRODUCED IN THE UNITED STATES AND COMPLY WITH THE AMERICAN IRON AND STEEL REQUIREMENT (AISI). CONTRACTOR TO PROVIDE AISI CERTIFICATION FOR ALL IRON AND STEEL PRODUCTS SUPPLIED FOR THIS CONTRACT.

SPECIAL PROVISIONS APPLICABLE FOR MANHOLE LINING:

45. ANY MATERIAL, INCLUDING MINERAL DEPOSITS DISPLACED FROM THE MANHOLE SHALL BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF THE REMOVED MATERIALS AT A DEPARTMENT OF NATURAL RESOURCES (DNR) APPROVED SITE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE LINING.

46. IF ANY EXCAVATION IS REQUIRED TO REPAIR THE MANHOLE PRIOR TO COMMENCING ANY WORK, THE UTILITIES SHALL BE HOT-LINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL THE NECESSARY INFORMATION, INCLUDING "AS-BUILT" PLANS AND ELEVATIONS FROM THE RESPECTIVE UTILITY COMPANIES. THE COST OF SUPPORTING OR RELOCATING ANY UNDERGROUND OR AERIAL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY OWNERS AND INCLUDED IN THE UNIT BID PRICE FOR THE MANHOLE. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR ANY UTILITY RELOCATION FROM THE RESPECTIVE UTILITY OWNER PRIOR TO THE RELOCATION. THE COST OF ANY REQUIRED PAVEMENT SAWING AND TEMPORARY AND PERMANENT PAVEMENT RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE MANHOLE REPAIR.

47. FOR MANHOLE REPAIR WORK, THE CONTRACTOR SHALL REMOVE THE EXISTING MANHOLE FRAME AND LID AND REPAIR THE EXISTING BRICK WORK TO THE DEPTHS SHOWN ON THE PLAN. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 3.5.4 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE THE EXISTING BRICK AND REPLACE WITH CONCRETE RINGS. THE CONTRACTOR SHALL RE-USE THE EXISTING FRAME AND LID IF IN GOOD CONDITION AS DETERMINED BY THE CONSTRUCTION ENGINEER. IF REPLACEMENT OF A NEW FRAME AND LID IS REQUIRED, THE CONTRACTOR SHALL OBTAIN A CASTING ORDER FROM THE CONSTRUCTION ENGINEER AND CONTACT MR. ROBERT BROOKS AT (414) 286-3241 FOR PICKUP BY THE CONTRACTOR OF A NEW FRAME AND LID. ALL THE COSTS ASSOCIATED WITH THIS WORK, INCLUDING PAVEMENT RESTORATION AND FURNISHING OF ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLE REPAIR.



SHEET NO. 1 OF 6	IS PLAN FILE NO. 241-42
SHEET NO. 2 OF 6	IS PLAN FILE NO. 241-43
SHEET NO. 3 OF 6	IS PLAN FILE NO. 241-44
SHEET NO. 4 OF 6	IS PLAN FILE NO. 241-45
SHEET NO. 5 OF 6	IS PLAN FILE NO. 241-46
SHEET NO. 6 OF 6	IS PLAN FILE NO. 242-76



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
AS BUILT CONTRACT NO.			
ENT'D. BY			

**ENVIRONMENTAL ENGINEERING SECTION**  
INFRASTRUCTURE SERVICES DIVISION  
DEPARTMENT OF PUBLIC WORKS  
MILWAUKEE, WISCONSIN

**SPECIAL PROVISIONS**

**IN AT INTERSECTION OF N. 27TH STREET W. VLIET STREET**

**IN AT INTERSECTION OF N. 27TH STREET W. CHERRY STREET**

**IN FROM TO W. WALNUT STREET N. 26TH STREET N. 27TH STREET**

**IN FROM TO W. JUNEAU AVENUE N. 27TH STREET N. 28TH STREET**

**IN FROM TO W. GALENA STREET N. 26TH STREET N. 30TH STREET**

HORIZONTAL SCALE	N/A	DATE
VERTICAL SCALE	N/A	01-04-2016
1/4 SEC. NO. 350, 364, 365, 388		DESIGN ENGINEER
PLAN DATE 11/30/15		01-04-2016
DESIGNED BY B. F. BAU		ENGINEER IN CHARGE
DRAWN BY RP/JS		
CHECKED BY F. LAWLAW		01-04-2016
SYSTEM NO. 3016	CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
CONTRACT NO.	PROJECT NO. 1	C.C. FILE NO. 151138
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<b>SHEET NO. 6 OF 6</b>		<b>PLAN FILE NO. 242-76</b>