

SPECIAL PROVISIONS FOR PLAN FILE NOS. 228-59, 228-60, 228-61, 228-62, 228-63, 228-64, 228-65, 228-66, 228-67, 229-16, 229-17, AND 229-21 ONLY.

1. THE CONTRACTOR SHALL DEMONSTRATE THAT THEY HAVE CONSTRUCTED AT LEAST THREE SUCCESSFUL FIBERGLASS-MORTAR LINER PIPE (SLIPLINING) PROJECTS, 60-INCH TO 96-INCHES IN DIAMETER, IN THE LAST TEN YEARS. THE PROJECTS SHOULD BE OF SIMILAR COMPLEXITY AND SUBJECT TO SIMILAR ENVIRONMENTAL DOCUMENTS AND CONTRACT DOCUMENTS AND PLANS. THE PIPE MANUFACTURER SHALL DEMONSTRATE THAT THEY HAVE FABRICATED A MINIMUM OF 1,000 FEET IN LENGTH OF PIPE, 96-INCHES IN DIAMETER OR LARGER, OVERALL IN THE UNITED STATES. PRE-QUALIFICATION BY THE CONTRACTOR IS REQUIRED PRIOR TO BIDDING. ALL PRE-QUALIFICATION DOCUMENTS MUST BE SUBMITTED TO MR. ZAFAR YOUSUF OF THE ENVIRONMENTAL ENGINEERING SECTION AT LEAST 7 DAYS PRIOR TO THE BID OPENING. QUALIFIED BIDDERS WILL BE ALLOWED TO BID ON THIS PROJECT, AS JUDGED BY THE CITY.

2. THE CONTRACTOR SHOULD VISUALLY INSPECT THE PROJECT SITE, MANHOLES IN THE FIELD, AND/OR VIEW THE AVAILABLE VIDEOTAPE EXAMINATIONS OF THE SEWER AND MANHOLES PRIOR TO BIDDING. PLEASE NOTE THAT THE EXISTING VIDEOTAPES DO NOT EXAMINE THE ENTIRE MANHOLE STRUCTURE. VIDEOTAPE 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 VIDEOTAPES.

3. ATTENDANCE AT A PRE-BID MEETING WILL BE REQUIRED. THE PRE-BID MEETING WILL BE HELD IN ROOM 820, 841 NORTH BROADWAY MILWAUKEE WI ON WEDNESDAY MARCH 7, 2012 AT 10:00 AM. THE CONTRACTOR SHALL BE CHARGED WITH THE PREPARATION OF PRE-CONSTRUCTION ACTIVITIES, MATERIALS AND PROCEDURES TO BE USED, AND EXCHANGE ANY INFORMATION DEEMED NECESSARY TO ENSURE SUCCESSFUL COMPLETION OF THE PROJECT. PRE-QUALIFICATION WILL BE REQUIRED PRIOR TO BIDDING. THE CONTRACTOR MUST SUBMIT ALL REQUIRED PRE-QUALIFICATION DOCUMENTS TO THE CITY OF MILWAUKEE ENVIRONMENTAL ENGINEERING SECTION ROOM 820, 841 NORTH BROADWAY MILWAUKEE, WI 53202 NO LATER THAN MONDAY MARCH 12, 2012.

4. THE SUCCESSFUL CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL ENGINEERING SECTION TO DISCUSS THE PROPOSED WORK AND WORK SCHEDULE. THIS MEETING THE CONTRACTOR SHALL PROVIDE A WORK SCHEDULE. THE CONTRACTOR SHALL CONTACT MR. ZAFAR YOUSUF OF THE ENVIRONMENTAL ENGINEERING SECTION AT (414) 286-2467 AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE THE MEETING.

5. STANDARD SPECIAL PROVISIONS, (PLAN FILE NUMBER 52-4-51), REVISED AUGUST 22, 2011 OR LATEST REVISION THEREOF), ARE PART OF THIS CONTRACT.

6. WORK ON THIS SEWER SLIP LINING PROJECT SHALL BE COMPLETED BY JUNE 1, 2013. THE WORK SHALL BE CONTINUOUS AND TOTAL MAXIMUM NUMBER OF ALLOWABLE WORKDAYS SHALL BE 200 DAYS. A PROJECT WORKING DAY IS DEFINED AS THE CONTRACTOR IS ABLE TO WORK. THE MINIMUM OF FOUR HOURS TOWARDS COMPLETION OF THE PROJECT, NO WORK SHALL BE DONE AROUND MANHOLE 400B520 AND NORTH 26TH STREET SHALL REMAIN OPEN NORTH OF WEST CLYBOURN AVENUE TO WEST WISCONSIN AVENUE FROM ROOM 21, 9, 2012 TO ROOM 21, 9, 2012. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES, INCLUDING TRAFFIC CONTROL PATTERNS, IN THIS AREA WITH MILWAUKEE WATER WORKS CONTRACTOR IN CONSTRUCTION. M.J. CONSTRUCTION CAN BE CONTACTED AT 414-760-3320.

7. THE CONTRACTOR SHALL CONTACT MS. GERI SCHMIDT AT (414) 286-3632 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 CONTACT MS. GERI SCHMIDT TO ARRANGE FOR THE REMOVAL OF SIGNS IN THE PROJECT LIMITS AFTER CONSTRUCTION WORK IS COMPLETED.

8. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL PLAN SHOWING CONTROL PATTERNS AROUND THE WORK ZONE AND ACCESS TO BUSINESSES AND RESIDENCES IN MR. JAMES BROWN OR MS. GERI SCHMIDT OF THE TRAFFIC OPERATIONS SECTION, MUNICIPAL BUILDING, ROOM 920, CONTACT MR. JAMES BROWN AT 286-3276, OR MS. GERI SCHMIDT AT 286-3632 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.

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

10. THE CONTRACTOR SHALL NOT IMPACT TRAFFIC IN WEST HIGHLAND BOULEVARD, WEST STATE STREET, WEST WISCONSIN AVENUE, WEST WELLS STREET AND WEST CLYBOURN STREET AT ANY TIME.

11. WEST WISCONSIN AVENUE AND WEST HIGHLAND BOULEVARD ARE MILWAUKEE COUNTY TRANSIT SYSTEM BUS ROUTES.

12. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AND ACCESS AT ALL TIMES TO BUSINESSES AND PROPERTY OWNERS/OCCUPANTS IN CONSTRUCTION AREA.

13. MANHOLE 400B075 IS LOCATED WITHIN THE LIMITS OF INTERSTATE I-94. THIS MANHOLE CAN BE USED ONLY AS AN EMERGENCY ACCESS. THE CONTRACTOR SHALL CONTACT MR. ANDY MAXWELL OF THE DEPARTMENT OF TRANSPORTATION OFFICE AT (262) 821-6544 AT LEAST TEN (10) DAYS PRIOR TO THE ACCESS DATE AND OBTAIN PERMISSION TO ENTER INTO THE INTERSTATE RIGHT-OF-WAY AND MANHOLE. THE CONTRACTOR MUST ABIDE BY THE ACCESS RESTRICTIONS SET BY THE DEPARTMENT OF TRANSPORTATION. ALL COSTS ASSOCIATED WITH OBTAINING ACCESS TO THE MANHOLE IN THE INTERSTATE RIGHT OF WAY SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

14. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL THE EXISTING UTILITIES AND STRUCTURES WITHIN THE PROJECT AREA OF THE WORK SHAFT INCLUDING NEARING TIGHT SHEETING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE COST FOR THE RELOCATION OR ALTERATION OF UTILITIES IF REQUIRED DURING CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORK SHAFT.

15. IF A WATERMAIN ALTERATION IS NECESSARY DUE TO THE CONSTRUCTION OF THE WORK SHAFT, THE CONTRACTOR SHALL PROVIDE THE MILWAUKEE WATER WORKS WATER ENGINEERING SECTION WITH PLANS SHOWING THE LOCATION AND SIZE OF THE PROPOSED SHAFTS AT LEAST FIFTEEN (15) DAYS PRIOR TO THE START OF CONSTRUCTION. THE WATER ENGINEERING SECTION WILL PREPARE CONSTRUCTION PLANS FOR EACH WATER MAIN ALTERATION. A DEPOSIT FOR THE DESIGN OF THE WATERMAIN ALTERATION IS NECESSARY AND SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE MILWAUKEE WATER WORKS DEPOSIT AMOUNTS ARE ESTIMATED TO BE \$4,000 PER ALTERATION. THE CONTACT PERSON IN WATER ENGINEERING IS MR. MARK SCHELLER 414 (286-2427). ALL THE COSTS WITH THIS WORK, INCLUDING DESIGN AND CONSTRUCTION OF THE WATER MAIN RELOCATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT.

16. IF ALTERATIONS TO STREET LIGHTING FACILITIES, TRAFFIC SIGNALS, OR TRAFFIC SIGNALS CONTAINING VEHICLE DETECTOR LOOPS ARE NECESSARY DUE TO THE CONSTRUCTION OF THE WORKSHAFTS THE CONTRACTOR SHALL CONTACT MR. ENG KIE LEE AT (414) 286-2174 OR JOE BONDOWSKI AT (414) 286-5162 RESPECTIVELY AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE OUT THE NECESSARY DEPOSIT FOR THE MILWAUKEE WATER WORKS DEPOSIT FOR STREET LIGHTING AND SIGNAL ALTERATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT.

17. IF CITY OF MILWAUKEE UNDERGROUND CONDUIT OR COMMUNICATIONS FACILITY ALTERATIONS ARE NECESSARY DUE TO THE CONSTRUCTION OF THE WORKSHAFTS, THE CONTRACTOR SHALL CONTACT MR. ZAFAR YOUSUF AT (414) 286-3243 OR MARK INGLIS AT (414) 286-5971 RESPECTIVELY AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE THE NECESSARY DEPOSIT FOR DESIGN AND CONSTRUCTION OF THE UNDERGROUND CONDUIT OR COMMUNICATION ALTERATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT.

18. THERE ARE VARIOUS OVERHEAD WIRES WITHIN THE PROJECT LIMITS THAT MAY REQUIRE TEMPORARY RELOCATIONS. THE COST OF ANY RELOCATION UTILITIES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

19. THE CONTRACTOR SHALL SUPPORT CITY OF MILWAUKEE UNDERGROUND CONDUIT (CUC) WITH WOODEN BEAMS OR EQUAL SUPPORTS. THE CONTRACTOR SHALL USE EXTREME CAUTION AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGING THE CUC FACILITIES. ALL CUC FACILITIES AND COMMUNICATION CABLES THAT MUST REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE CITY OF MILWAUKEE FACILITIES. CONTACT THE CITY DISPATCHER AT (414) 286-3488 IMMEDIATELY IF DAMAGE OCCURS.

20. IN THE WORKSHAFT AREAS THE PAVEMENT SHALL BE REPLACED TO THE SAME KIND AND KIND OF CONSTRUCTION AND PREPARED TO BE ASSOCIATED WITH THE PAVEMENT REPLACEMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE WORKSHAFT.

21. THE CONTRACTOR SHALL PROVIDE VIDEO RECORD OF ALL PHASES OF THE LINING INSTALLATION OPERATION, FROM THE CONDITION OF THE EXISTING SEWER TO THE FINISHED LINING INSTALLATION ON DIGITAL VIDEO DISCS (DVDs). THE DVDS SHALL BE PREPARED AS DIRECTED BY THE CONSTRUCTION ENGINEER TO ENSURE QUALITY CONTROL AND CONTRACT COMPLIANCE. THE CONTRACTOR SHALL ALSO PROVIDE THE CITY WITH THE POST INSTALLATION DVDS OF THE PROJECT. THESE DVDS WILL BECOME THE PROPERTY OF THE CITY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE FIBERGLASS MORTAR LINER PIPE.

22. THE CONTRACTOR MUST CONTACT THE PRINCIPAL AT (414)934-8200 OF TWENTY SEVENTH STREET ELEMENTARY SCHOOL AT LEAST 10 WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR IS TO COORDINATE WORK SO THAT IT WILL NOT INTERFERE WITH THE NORMAL OPERATION OF THE SCHOOL.

23. NO WORKSHAFT SHALL BE CONSTRUCTED IN THE INTERSECTIONS OF WEST CLYBOURN STREET, WEST MICHIGAN AVENUE, WEST WISCONSIN AVENUE, WEST WELLS STREET, WEST STATE STREET, AND WEST HIGHLAND BOULEVARD.

24. EXCEPT AT THE ABOVE LOCATIONS WHERE WORKSHAFTS ARE NOT ALLOWED, THE CONTRACTOR SHALL DETERMINE THE SIZE AND LOCATION OF THE WORKSHAFTS THE UTILITIES HAVE BEEN NOTIFIED IN THE FIELD. THE SIZE OF THE WORKSHAFT, AS SHOWN ON THE PLAN, IS AN ESTIMATE. THE COST OF SUPPORTING OR RELOCATING ANY UTILITY ON THE PROJECT DUE TO THE WORK SHAFTS CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORKSHAFT.

25. THE CITY HAS ACQUIRED A SOIL BORING REPORT FOR CONDITIONS WHICH MAY BE ENCOUNTERED ALONG THE ROUTE OF THE PROJECT. THE CONTRACTOR IS INVITED TO EXAMINE THIS INFORMATION FOR HIS USE ON THE PROJECT. WHILE THIS INFORMATION IS BELIEVED TO BE ACCURATE, THE CITY DOES NOT GUARANTEE THE SAME. THE CONTRACTOR MUST SATISFY THEMSELVES OVERLAPINGS OR ANY ADDITIONAL SOIL ANALYSIS IF THEY MAY DEEM NECESSARY, AT THE CONTRACTOR'S OWN EXPENSE. A COPY OF THE SOIL REPORT IS AVAILABLE TO THE CONTRACTOR BY CONTACTING MR. ZAFAR YOUSUF AT (414) 286-2467.

26. GROUNDWATER MAY BE ENCOUNTERED DURING CONSTRUCTION OF THE WORKSHAFT. ANY GROUNDWATER PUMPING OR DEWATERING NECESSARY TO CONSTRUCT THE FIBERGLASS MORTAR LINER PIPE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT. ALL DEWATERING ACTIVITIES MUST BE APPROVED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

27. THE REMOVAL OF ANY BEDROCK ENCOUNTERED DURING THE EXCAVATION OF THE WORKSHAFT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR BEDROCK EXCAVATION.

28. THE CONTRACTOR IS REQUIRED TO BUILD A NEW MANHOLE STRUCTURE AS PER DETAILS SHOWN ON PLAN FILE NUMBER 229-16. IF THE CHANGES TO CONSTRUCT A WORKSHAFT AT MANHOLE 389C075. THE WORK INCLUDES BUILDING A JUNCTION CHAMBER, CONCRETE COLLAR, AND 126-INCH DIAMETER FIBERGLASS MORTAR PIPE AS SHOWN ON THE DETAIL. THE MINIMUM REQUIRED SIZE AND INTERNAL AND EXTERNAL DIMENSIONS OF THE PROPOSED CHAMBER ARE SHOWN ON THE PLAN. THE MINIMUM THICKNESS OF THE TOP SLAB AND SIDEWALLS OF THE CHAMBER SHALL BE 24-INCHES. THE MINIMUM THICKNESS OF THE BOTTOM SLAB SHALL BE 36-INCHES. THE MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE USED SHALL BE 5,000 PSI AND THE MINIMUM TENSILE STRENGTH OF THE STEEL USED SHALL BE 60,000 PSI. PRIOR TO BIDDING THIS PROJECT, THE CONTRACTOR MUST SATISFY THEMSELVES AND OBTAIN THE NECESSARY REINFORCEMENT AND OTHER MATERIALS REQUIRED FROM A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WISCONSIN TO COMPLETE THE WORK BASED ON THE PARALLEL DRAWINGS OF THE CHAMBER SHOWING THE PARAMETER USED IN THE STRUCTURAL CALCULATIONS, PLAN VIEW, CROSS-SECTION VIEWS AND DETAILS OF ALL REINFORCEMENT TO BE USED IN THE CONSTRUCTION OF THE ENGINEERING SECTION FOR APPROVAL. BOTH STRUCTURAL DESIGN CALCULATIONS AND PLANS FOR THE CHAMBER MUST BE PERFORMED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN. THE CONSTRUCTION OF THE CHAMBER SHALL BE ALLOWED ONLY AFTER OBTAINING APPROVAL FROM THE CITY'S ENVIRONMENTAL ENGINEERING SECTION. ALL COSTS ASSOCIATED WITH OBTAINING APPROVAL FOR THE CHAMBER SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT. THE CONTRACTOR SHALL BUILD A CONCRETE COLLAR TO FORM A TRANSITION SECTION WITH THE EXISTING 144-INCH DIAMETER COMBINED SEWER OVERFLOW. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE CHAMBER, INCLUDING CONSTRUCTION OF THE CONCRETE COLLAR AND ALL LABOR COSTS OF FURNISHING AND INSTALLING THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE IN THE OPEN CUT AREA OF THE WORK SHAFT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT.

29. IF THE CONTRACTOR CHOOSES TO INSTALL A WORKSHAFT AT A LOCATION WHERE A MANHOLE EXISTS, THE CONTRACTOR IS REQUIRED TO BUILD A JUNCTION CHAMBER AS SHOWN ON PLAN FILE 229-16. THE WORK INCLUDES BUILDING A JUNCTION CHAMBER WITH 4'-0" DIAMETER COMBINED MANHOLE AND CONCRETE COLLAR, AND 126-INCH DIAMETER FIBERGLASS MORTAR PIPE AS SHOWN ON THE DETAIL. THE MINIMUM REQUIRED SIZE AND INTERNAL DIMENSIONS OF THE PROPOSED CHAMBER ARE SHOWN ON THE PLAN. THE MINIMUM THICKNESS OF THE TOP SLAB AND SIDEWALLS OF THE CHAMBER SHALL BE 24-INCHES. THE MINIMUM THICKNESS OF THE BOTTOM SLAB SHALL BE 36-INCHES. THE MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE USED SHALL BE 5,000 PSI AND THE MINIMUM TENSILE STRENGTH OF THE STEEL USED SHALL BE 60,000 PSI. PRIOR TO BIDDING THIS PROJECT, THE CONTRACTOR MUST SATISFY THEMSELVES AND OBTAIN THE NECESSARY REINFORCEMENT AND OTHER MATERIALS REQUIRED FROM A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WISCONSIN TO COMPLETE THE WORK BASED ON THE PARAMETERS AND DETAILS SHOWN ON THE PLAN. THE SUCCESSFUL CONTRACTOR IS REQUIRED TO SUBMIT STRUCTURAL DESIGN CALCULATIONS, DETAIL DRAWINGS OF THE CHAMBER SHOWING THE PARAMETER USED IN THE STRUCTURAL DESIGN CALCULATIONS, PLAN VIEW, CROSS-SECTION VIEWS AND DETAILS OF ALL REINFORCEMENT TO THE CITY'S ENVIRONMENTAL ENGINEERING SECTION FOR APPROVAL. BOTH STRUCTURAL DESIGN CALCULATIONS AND PLANS FOR THE CHAMBER MUST BE PERFORMED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN. THE CONSTRUCTION OF THE CHAMBER SHALL BE ALLOWED ONLY AFTER OBTAINING APPROVAL FROM THE CITY'S ENVIRONMENTAL ENGINEERING SECTION. ALL COSTS ASSOCIATED WITH OBTAINING APPROVAL FOR THE CHAMBER SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT. THE CONTRACTOR SHALL BUILD A CONCRETE COLLAR TO FORM A TRANSITION SECTION WITH THE EXISTING 144-INCH DIAMETER COMBINED SEWER OVERFLOW. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE CHAMBER, INCLUDING CONSTRUCTION OF THE CONCRETE COLLAR AND ALL LABOR COSTS OF FURNISHING AND INSTALLING THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE IN THE OPEN CUT AREA OF THE WORK SHAFT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORKSHAFT.

30. AS DESCRIBED IN SPECIAL PROVISION 27 AND 28, THE CONTRACTOR MUST BUILD THE PROPOSED JUNCTION CHAMBER AS PER THE MINIMUM SIZE REQUIREMENT AND PARAMETERS SPECIFIED ON THE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE COSTS OF ANY ADDITIONAL REINFORCEMENT OR INCREASE IN THE SIZE OF JUNCTION CHAMBER AS DETERMINED BY THE STRUCTURAL DESIGN ENGINEER.

31. IF THE CONTRACTOR CHOOSES TO INSTALL A WORKSHAFT WHERE NO MANHOLE EXIST IN THE OPEN CUT AREA OF THE WORKSHAFT, THE CONTRACTOR SHALL INSTALL A REINFORCED CONCRETE ENCASED 126-INCH DIAMETER FIBERGLASS MORTAR PIPE AND REINFORCED CONCRETE COLLAR BETWEEN THE NEW PIPE AT THE EDGE OF THE WORKSHAFT AND THE EXISTING 144-INCH DIAMETER COMBINED SEWER OVERFLOW. ALL DETAILS OF THE REINFORCEMENT AND CONCRETE ENCASEMENT OF THE WORKSHAFT AREA ARE SHOWN ON PLAN FILE NUMBER 229-16. ALL COSTS ASSOCIATED WITH CONSTRUCTION IN THE OPEN CUT AREA OF THE WORKSHAFT, INCLUDING CONSTRUCTION OF THE CONCRETE COLLAR AND ALL LABOR COSTS OF FURNISHING AND INSTALLING THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE IN THE OPEN CUT AREA OF THE WORK SHAFT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORK SHAFT.

32. FOR DESIGN CALCULATION PURPOSES, THE DIAMETER OF THE WORKSHAFT IS ASSUMED TO BE 26 FEET. THE CONTRACTOR HAS AN OPTION OF SELECTING THE SIZE OF THE WORK SHAFT. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR ANY PROPOSED WORK SHAFTS FOR REVIEW AND APPROVAL BY THE CONSTRUCTION ENGINEER AND THE ENVIRONMENTAL ENGINEERING SECTION. BOTH DESIGN CALCULATIONS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN. THE CITY WILL REQUIRE AT LEAST TEN (10) WORKING DAYS TO REVIEW ANY DESIGN CALCULATIONS AND DRAWINGS. NO CONSTRUCTION SHALL BE IN PROGRESS AT THE DESIGN AND DRAWING APPROVAL FROM THE ENVIRONMENTAL ENGINEERING SECTION. THE ENTIRE COST OF PLAN PREPARATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK SHAFT.

33. THE COST OF REMOVING AND REPLACING HIGH LEVEL SEWERS DUE TO THE CONSTRUCTION OF WORK SHAFTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK SHAFT.

34. IF A WORKSHAFT IS CONSTRUCTED AT MANHOLE 400B520, THE ADJACENT VENT MANHOLE NUMBER 400B076 SHALL BE REMOVED AS SHOWN ON PLAN FILE NUMBER 229-16. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THIS MANHOLE. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THIS MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE WORK SHAFT.

35. THE CONTRACTOR REQUIRES ANY ADDITIONAL WORK SHAFTS FOR CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION. THE ADDITIONAL WORK SHAFTS AND RESTORING THE SEWER AND WORK SHAFT AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORKSHAFT.

36. PRIOR TO ORDERING THE FIBER GLASS LINER PIPE (SLIPLINING) FROM THE MANUFACTURER FOR THE SEWER, THE CONTRACTOR SHALL VERIFY THAT THE INTERNAL DIMENSIONS THROUGHOUT THE SEWER AND THE MANHOLES ARE WITHIN THE TOLERANCES AND SEWER SHALL BE WITHIN A RANGE ACCEPTABLE FOR THE INSTALLATION OF THE LINER INSIDE THE EXISTING COMBINED SEWER OVERFLOW (C.S.O.). THE CONTRACTOR SHALL SURVEY THE INTERIOR OF THE EXISTING SEWER, PULL A TEST PIPE SECTION THROUGH THE EXISTING SEWER, OR PERFORM A COMBINATION THEREOF TO VERIFY THAT THE INSTALLATION OF THE PROPOSED FIBER GLASS LINER PIPE (SLIPLINING) AS SHOWN ON THE PLAN IS FEASIBLE. ALL TESTS SHALL BE WITHIN THE TOLERANCES ASSIGNED IN THE UNIT PRICE BID FOR THE FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

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. IF NECESSARY, THE CONTRACTOR SHALL BYPASS THE FLOW FROM THE EXISTING COMBINED SEWER OVERFLOW (C.S.O.) 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.

39. SOIL SAMPLES FROM THE WORK SHAFT EXCAVATION SHALL BE HAULED AWAY FROM THE PROJECT SITE AND PROPERLY DISPOSED OFF. THE COST OF TRUCKING AND DISPOSAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK SHAFT.

40. ONCE THE CONTRACT HAS BEEN AWARDED, THE SUCCESSFUL CONTRACTOR IS REQUIRED TO SUBMIT A FLOW DIVERSION PLAN (NOTICE OF INTENT) AND TIMELINE FOR PUMPING INTO ANY MILWAUKEE INTERCEPTING SEWER (MIS) STRUCTURE TO THE CITY OF MILWAUKEE. THE CITY OF MILWAUKEE IS THEN REQUIRED TO SUBMIT A FLOW DIVERSION PLAN TO MMSD FOR THEIR APPROVAL. THE CONTRACTOR SHALL CONTACT MR. LARRY ANDERSON OF MMSD AT (414) 225-2241 TO OBTAIN INFORMATION ON SUBMITTING A FLOW DIVERSION PLAN. ANY DEVIATION, CHANGE IN LOCATION, OR TIMELINE OF THE DISCHARGE FROM THE PLAN SUBMITTED MUST BE RESUBMITTED TO THE CITY OF MILWAUKEE FOR APPROVAL FROM THE CITY OF MILWAUKEE AND SUBMITTED TO MMSD. THE COST OF A FLOW DIVERSION PLAN SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

41. THE CONTRACTOR SHALL CONTACT THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT (MMSD) PRIOR TO ENTERING INTO ANY MMSD OWNED STRUCTURES AND OBTAIN THE NECESSARY PERMITS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

42. THE CONTRACTOR SHALL PROVIDE THE CITY WITH "AS-BUILT" FLOW LINE ELEVATIONS AT EACH MANHOLE AFTER THE COMPLETION. THE COST OF PROVIDING THE "AS-BUILT" ELEVATIONS AT THESE LOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

43. THE CONTRACTOR SHALL MAINTAIN THE SLOPE OF THE EXISTING SEWERS DURING AND AFTER CONSTRUCTION.

44. THE FIBER GLASS MORTAR LINER PIPE (SLIPLINING) SHALL BE PLACED UP TO THE SPRING LINE IN EXISTING MANHOLES.

45. ACTIVE LEAKS DUE TO GROUND WATER INFILTRATION ARE PRESENT AT VARIOUS LOCATIONS IN THE EXISTING COMBINED SEWER OVERFLOW (C.S.O.) TO BE INSTALLED. THE CONTRACTOR SHALL VIEW ANY AVAILABLE VIDEOTAPES AND NOTE WHERE ACTIVE INFILTRATION LEAKS ARE OCCURRING. ACTIVE LEAKS ARE TO BE MINIMIZED TO ALLOW FOR THE INSTALLATION OF THE GROUT AND PIPE DURING THE CONSTRUCTION OPERATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FIBER GLASS MORTAR LINER PIPE (SLIPLINING).

A VIDEO EXAMINATION BETWEEN MANHOLE 389C074 AND MANHOLE 389C075 WAS NOT PERFORMED DUE TO THE EXISTING 14-FEET-0" DIAMETER MANHOLE 389C075. THE CITY DOES NOT INTEND TO PERFORM THIS SECTION OF VIDEO EXAMINATION. THE SUCCESSFUL CONTRACTOR HAS AN OPTION TO SATISFY THEMSELVES BY PERFORMING THEIR OWN INSPECTION PRIOR TO THE START OF CONSTRUCTION AT THE CONTRACTOR'S EXPENSE AND DETAILS. ALL COSTS ASSOCIATED WITH THE EXAMINATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

46. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING TRANSITION SECTIONS THAT INTERFERE WITH THE PLACEMENT OF THE NEW LINER. THE COST OF REMOVING TRANSITION SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FIBER GLASS MORTAR LINER PIPE (SLIPLINING).

47. AFTER THE AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL MAIL A NOTICE OF THE PROJECT TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES REGARDING THE PROJECT WITHIN 10 BUSINESS WORKING DAYS. THE FIRST LIFT OF THE PROJECT SHALL BE 12 INCHES BELOW THE SPRING LINE OF THE PROJECT. A SAMPLE NOTICE WILL BE INCLUDED IN THE CONTRACT DOCUMENT. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

48. THE CONTRACTOR SHALL PROVIDE THE CITY WITH TWO (2) COPIES OF A POST INSTALLATION DVD EXAMINATION AND REPORT OF THE SEWER. THESE RECORDED EXAMS WILL BECOME THE PROPERTY OF THE CITY OF MILWAUKEE. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

49. A SCHEDULE OF WATER AND HYDRANT SERVICE CHARGES OF MILWAUKEE WATER WORKS EFFECTIVE MAY 1, 2011 (OR LATEST REVISION THEREOF), FOR SEWER FLUSHING AND LINING (ENCLOSED IN THE BID PACKAGE), IS A PART OF THIS CONTRACT. PLEASE CONTACT MR. EARL SMITH OF MILWAUKEE WATER WORKS AT 414-286-5177 FOR ANY QUESTIONS RELATED TO HYDRANT FEES AND DEPOSITS. ALL PERMIT FEES AND DEPOSITS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

50. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR THE APPLIED THICKNESS OF THE LINING FOR ALL MANHOLES FOR REVIEW BY THE CONSTRUCTION ENGINEER AND THE ENVIRONMENTAL ENGINEERING SECTION. THE ENTIRE COST OF SUBMITTING DESIGN CALCULATIONS FOR THE APPLIED THICKNESS OF THE LINING FOR ALL MANHOLES FOR REVIEW SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE LINING.

51. 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.

SPECIAL PROVISIONS APPLICABLE FOR FIBERGLASS-MORTAR PIPE (SLIP LINER).

52. THE 126-INCH DIAMETER FIBERGLASS MORTAR PIPE SHALL MEET THE FOLLOWING ASTM REQUIREMENTS:
A. ASTM D3261 - STANDARD SPECIFICATION FOR "FIBERGLASS" (GLASS-FIBER) REINFORCED POLYESTER (R/P) SEWER PIPE.
B. ASTM D3681 - STANDARD TEST METHOD FOR CHEMICAL RESISTANCE OF "FIBERGLASS" PIPE IN A DEFLECTED CONDITION.
C. ASTM D638 - TEST METHOD FOR TENSILE PROPERTIES OF PLASTICS.

53. THE 126-INCH DIAMETER FIBERGLASS MORTAR PIPE SHALL MEET THE FOLLOWING MATERIAL, TESTING, CUSTOMER INSPECTION, AND INSTALLATION REQUIREMENTS:

A. MATERIALS: THE MANUFACTURER SHALL USE ONLY POLYESTER RESIN SYSTEMS WITH A PROVEN HISTORY OF PERFORMANCE IN THIS PARTICULAR APPLICATION. THE HISTORICAL DATA SHALL HAVE BEEN ACQUIRED FROM A COMPOSITE MATERIAL OF SIMILAR CONSTRUCTION AND COMPOSITION AS THE PROPOSED PRODUCT.
B. FITTINGS: FLANGES, ELBOWS, REDUCERS, TEES, WYES, LATERALS AND END FITTINGS SHALL BE PART OF THE MANUFACTURING AND OPERATING CONDITIONS WHEN INSTALLED. THEY MAY BE CONTACT MOLDED OR MANUFACTURED FROM MITERED SECTIONS OF PIPE JOINED BY GLASS-FIBER-REINFORCED OVERLAYS.

- A. TESTING: PIPES SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM D3262.
- A. STRAIN CORROSION: THE EXTRAPOLATED 50-YEAR STRAIN CORROSION VALUE SHALL BE IN ACCORDANCE WITH ASTM 3681 AND ASTM D3262.
- A. CUSTOMER INSPECTION: THE CITY OF MILWAUKEE DESIGNATED REPRESENTATIVE SHALL BE ENTITLED TO INSPECT PIPES OR WITNESS THE PIPE MANUFACTURING.
- B. MANUFACTURER'S NOTIFICATION TO CUSTOMER: SHOULD THE CITY OF MILWAUKEE REQUEST TO SEE SPECIFIC PIPES DURING ANY PHASE OF THE MANUFACTURING PROCESS, THE MANUFACTURER MUST PROVIDE THE OWNER WITH ADEQUATE ADVANCE NOTICE OF WHEN AND WHERE THE PRODUCTION OF THOSE PIPES WILL TAKE PLACE.
- A. INSTALLATION: THE INSTALLATION OF PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE MANUFACTURER'S REQUIREMENTS.
- B. PIPE GROUTING: ANNUAL SPACE GROUTING SHALL NOT DAMAGE THE LINER PIPE AND CONFORM TO THE MANUFACTURER'S REQUIREMENTS.
- C. PIPE HANDLING: USE TEXTILE SLINGS, OTHER SUITABLE MATERIALS OR A FORKLIFT. USE OF CHAINS OR CABLES IS NOT RECOMMENDED.
- D. JOINTING: CLEAN ENDS OF PIPE AND JOINT COMPONENTS.
 - 1. APPLY JUNT LUBRICANT TO THE BELL INTERIOR SURFACE AND THE ELASTOMERIC SEALS. USE ONLY LUBRICANTS APPROVED BY THE PIPE MANUFACTURER.
 - 2. USE SUITABLE EQUIPMENT AND END PROTECTION TO PUSH OR PULL THE PIPES TOGETHER.
 - 3. DO NOT EXCEED FORCES RECOMMENDED BY THE MANUFACTURER FOR JOINTING PUSHING PIPE.
 - 4. JOIN PIPES IN STRAIGHT ALIGNMENT THEN DEFLECT TO THE REQUIRED ANGLE. DO NOT ALLOW THE DEFLECTION ANGLE TO EXCEED THE DEFLECTION PERMITTED BY THE MANUFACTURER.

FIELD TESTS
ACCEPTANCE OF THE INSTALLED LINER SHALL BE BASED ON A DEVIATION FROM THE INSPECTION AFTER GROUTING TO ASSURE ALL JOINTS ARE PROPERLY ASSEMBLED, NO DAMAGE EXISTS, AND THAT ANY LEAKAGE OR DEFORMATION IS WITHIN THE ALLOWABLE LIMITS.

54. THE CONTRACTOR SHALL USE 2-INCH DIAMETER GROUT BUSHING FOR GROUTING. THE CONTRACTOR SHALL REQUEST THE PIPE MANUFACTURER TO PROVIDE GROUT PORTS ORIENTATION AND SPACING REQUIRED IN ORDER TO PROPERLY GROUT THE JOINTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE 126-INCH DIAMETER FIBERGLASS MORTAR LINER PIPE (SLIPLINING).

55. IN THE WORK SHAFT AREA THE SLIP LINER PIPE SHALL BE OF THE TYPE AND GRADE RECOMMENDED BY THE MANUFACTURER FOR DIRECT BURIED PIPE INSTALLATION AT THE DEPTH OF COVER, WIDTH, AND SOIL CONDITIONS ENCOUNTERED. SLURRY BACKFILL SHALL BE USED TO BACKFILL THE WORKSHAFT AREA.

56. ANY GROUT USED DURING CONSTRUCTION SHALL BE SUBMITTED TO THE ENVIRONMENTAL ENGINEERING AT LEAST 10 DAYS PRIOR TO ORDERING FOR APPROVAL. ALL COSTS ASSOCIATED WITH SUBMITTALS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR CEMENTITIOUS GROUT.

57. MATERIAL SPECIFICATIONS OF GROUT MIX DESIGN SHALL HAVE A SUFFICIENT CAST DENSITY OF 50 PCF (POUNDS PER CUBIC FOOT), AND HAVE A SPECIFIC WEIGHT SUFFICIENT TO DISPLACE EFFLUENT WATER FROM THE ANNULUS.

58. THE GROUT MIX DESIGN SHALL HAVE "ADEQUATE" FLOWABILITY SO THAT IT CAN BE INSTALLED WITHOUT INCLUDING CAVITIES, VOIDS, AND ANY IRREGULAR SECTIONS OF THE EXISTING 144-INCH DIAMETER SEWER.

59. IN ORDER TO PREVENT ANY FLOATING OF THE SLIP LINER PIPE AND MAINTAIN THE REQUIRED LINE AND GRADE, THE CONTRACTOR SHALL SECURE THE SLIP LINER PIPE TO ITS CORRECT POSITION.

60. THE SLIP LINER PIPE SHALL BE CONNECTED IN SUCH A MANNER SO THAT ALL JOINTS ARE LEAK FREE AND WATER TIGHT AFTER THE INSTALLATION.

61. THE MANUFACTURER OF THE SLIP LINER PIPE SHALL APPROVE THE GROUTING PRESSURES.

62. THE CONTRACTOR SHALL GROUT THE ANNULAR SPACE BETWEEN THE SLIP LINER PIPE AND THE INSIDE SURFACE OF THE EXISTING SEWER WITH A GENUINE GROUT TO ASSURE THE STRUCTURAL ADEQUACY OF THE REHABILITATED PIPE.

63. THE GROUT MIX EQUIPMENT SHALL PROVIDE AN UNINTERRUPTED FLOW OF HIGH QUALITY GROUT TO THE INJECTION POINT WITHOUT SHUTDOWNS DELAYS. DENSITY OF THE GROUT SHALL BE MONITORED BY DECIMETER GAUGE AND SHALL MEET THE AMERICAN PETROLEUM INSTITUTE (API) "SPECIFICATION OF MATERIAL TESTING OF CEMENT" STANDARDS.

64. THE GROUTING SHALL BE DONE IN AT LEAST THREE OR MORE LIFTS OR STAGES TO ENSURE THE CORRECT LOADING OF THE GROUT MATERIAL INTO THE SLIP LINER. THE FIRST LIFT OF THE GROUT SHALL BE 12 INCHES BELOW THE SPRING LINE OF THE EXISTING 144-INCH DIAMETER COMBINED SEWER OVERFLOW. THE SECOND LIFT SHALL NOT EXCEED 12-INCHES ABOVE THE SPRING LINE. THE FINAL LIFT SHALL FILL THE REMAINING ANNULAR SPACE.

65. ALL GROUT MIX SHALL HAVE 5% OR LESS SHRINKAGE FACTOR.

66. THE CONTRACTOR MAY USE A SUBSTITUTE CEMENT/FLY ASH CELLULAR CONCRETE GROUT WHICH MEETS OR EXCEEDS OUR STANDARD SAND SPECIFICATIONS.

67. THE GROUT MUST BE DURABLE ENOUGH TO WITHSTAND WET/DRY CONDITIONS. CONTACT WITH EFFLUENT WATER MUST NOT CAUSE DEGRADATION. THE GROUT SHALL DEVELOP SUFFICIENT DEVELOP ENOUGH COMPRESSIVE STRENGTH TO PREVENT AGAINST COLLAPSE OF THE DETEORATED EXISTING SEWER AND SHALL EVENLY SUPPORT THE SUPERIMPOSED LOADS ON THE LINER PIPE.

68. THE GROUT REQUIRED AROUND THE SLIP LINER PIPE SHALL CONSIST OF PORTLAND CEMENT AND FINE AGGREGATE IN SUCH PROPORTIONS THAT THE RESULTING CONCRETE MIXTURE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 300 PSI.

69. IF NECESSARY, THE CONTRACTOR MAY USE LOW PROFILE BELL TYPE JOINTS ON THE SLIP LINER PIPE.

FOR SPECIAL PROVISIONS SEE PLAN FILE NO. 229-17A
SHEET NO. 1 OF 12 IS PLAN FILE NO. 228-59A
SHEET NO. 2 OF 12 IS PLAN FILE NO. 228-60A
SHEET NO. 3 OF 12 IS PLAN FILE NO. 228-61A
SHEET NO. 4 OF 12 IS PLAN FILE NO. 228-62A
SHEET NO. 5 OF 12 IS PLAN FILE NO. 228-63A
SHEET NO. 6 OF 12 IS PLAN FILE NO. 228-64A
SHEET NO. 7 OF 12 IS PLAN FILE NO. 228-65A
SHEET NO. 8 OF 12 IS PLAN FILE NO. 228-66A
SHEET NO. 9 OF 12 IS PLAN FILE NO. 228-67A
SHEET NO. 10 OF 12 IS PLAN FILE NO. 229-17A
SHEET NO. 11 OF 12 IS PLAN FILE NO. 229-17A
SHEET NO. 12 OF 12 IS PLAN FILE NO. 229-21A



CALL DIGGERS HOTLINE 1-800-242-8511

TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES. SEE LOCAL STATUTE REGULATIONS WITHIN 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



NO.	BY	REVISION	DATE
	RP	REVISED SPECIFICATION LANGUAGE	03-09-12

AS BUILT CONTRACT NO. DATE ENT'D. ENT'D. BY

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

IN FROM TO N. 26TH STREET W. SAINT PAUL AVENUE W. MCKINLEY AVENUE