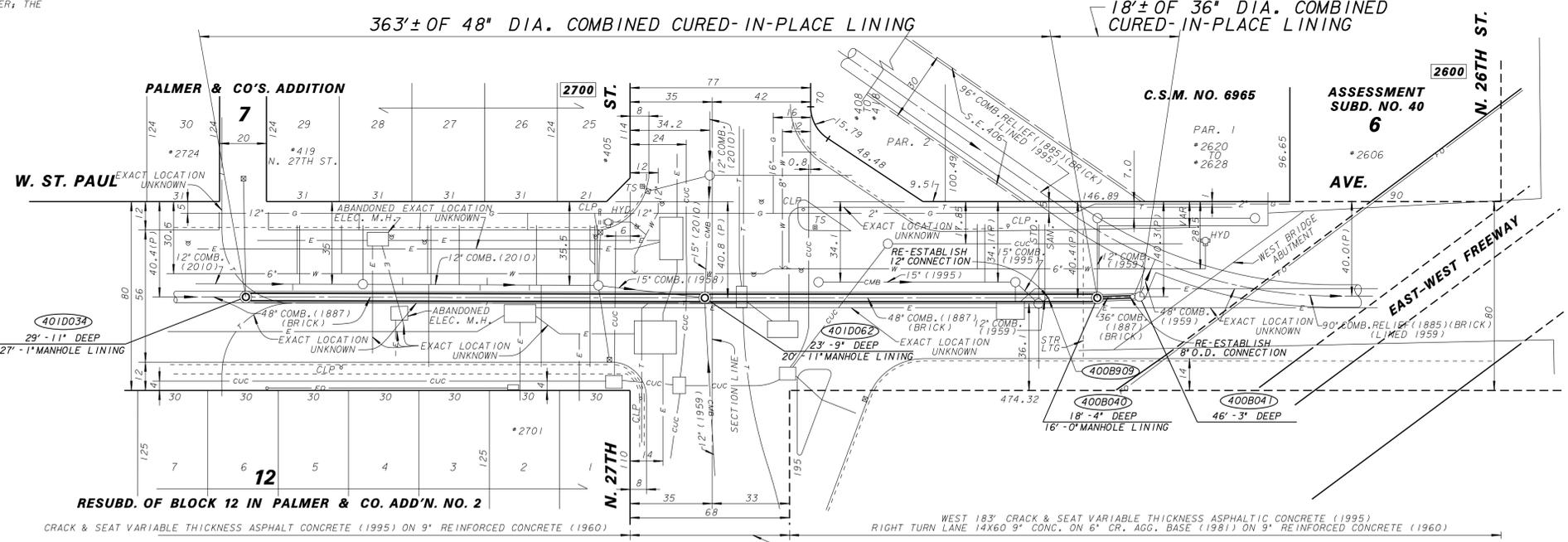
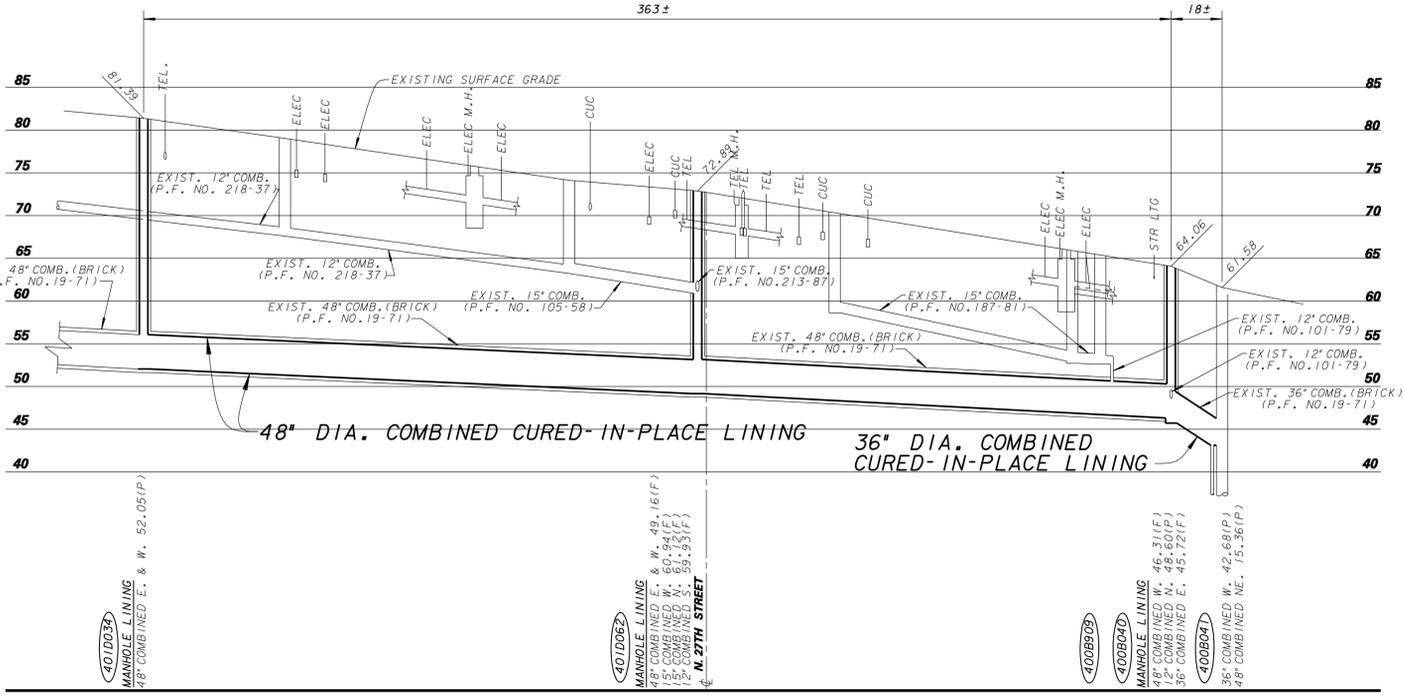


SPECIAL PROVISIONS FOR PLAN FILE NO. 232-12 ONLY.

- STANDARD SPECIAL PROVISIONS, PLAN FILE NUMBER 52-4-51, DATED AUGUST 22, 2011 (OR LATEST REVISION THERE OF), ARE PART OF THIS CONTRACT.
- COMMON COUNCIL AUTHORITY IS ANTICIPATED ON FEBRUARY 1, 2013. THE CONTRACT FOR THIS PROJECT SHALL NOT BE AWARDED UNTIL COMMON COUNCIL AUTHORITY IS OBTAINED. WORK ON THIS SEWER LINING PROJECT SHALL BE COMPLETED BY JUNE 1, 2013. THE WORK SHALL BE CONTINUOUS AND TOTAL MAXIMUM NUMBER OF ALLOWABLE WORKDAYS SHALL BE 15 DAYS. THE CONTRACTOR MAY BE REQUIRED TO WORK MULTIPLE SHIFTS WITH MULTIPLE CREWS INCLUDING WORKING ON SATURDAYS TO COMPLETE THE PROJECT BY THE COMPLETION DATE. THE CONTRACTOR SHALL COORDINATE THIS SEWER WORK WITH THE ONGOING SEWER CONSTRUCTION WORK IN NORTH 26TH STREET BY MICHELS PIPELINE. THE CONTRACTOR SHALL CONTACT MR. RUSS POLLARD AT (530)250-2648 TO COORDINATE THIS WORK.
- THE CONTRACTOR SHALL CONTACT MS. GERRI SCHMIDT AT (414) 286-3632 OF THE CITY OF MILWAUKEE TRANSPORTATION DEPARTMENT AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE PROJECT TO OBTAIN 'NO PARKING' SIGNS. THE CONTRACTOR SHALL ALSO CONTACT MS. SCHMIDT TO ARRANGE FOR THE REMOVAL OF SIGNS IN THE PROJECT LIMITS.
- THE CONTRACTOR WILL BE REQUIRED TO HANDLE ALL FLOW DURING THE INSTALLATION OF THE CURED-IN-PLACE LINING. THE COST OF BYPASSING AND PUMPING FLOW AROUND THE PROJECT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE DIAMETER COMBINED SEWERS, CURED-IN-PLACE LINING.
- FOR MANHOLE REPAIR WORK, THE CONTRACTOR SHALL REMOVE THE EXISTING MANHOLE FRAME AND LID AND REPAIR THE EXISTING BRICK WORK TO THE NECESSARY DEPTH. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 3.5.4 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE THE NECESSARY PORTION OF THE MANHOLE AND REPLACE WITH CONCRETE RINGS. THE CONTRACTOR SHALL REPAIR 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 PERMANENT RESTORATION AND FURNISHING OF ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLE REPAIR. THE LOCATION OF THE REPAIR MUST BE APPROVED BY THE FIELD ENGINEER. THE QUANTITIES SHOWN ON THE PLANS ARE ESTIMATES.
- IF ANY EXCAVATION IS REQUIRED TO REPAIR THE MANHOLES PRIOR TO COMMENCING ANY WORK ON THE MANHOLES TO BE LINED, 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, IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY OWNERS, SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE MANHOLE LINING. 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 LINING.

- SPECIAL PROVISIONS APPLICABLE FOR MANHOLE LINING:
- 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.
 - 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 AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION. 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.
 - 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 RESPECTIVE DIAMETER LINING. 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 RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.
 - FOR MANHOLE REPAIR WORK, THE CONTRACTOR SHALL REMOVE THE EXISTING MANHOLE FRAME AND LID AND REPAIR THE EXISTING BRICK WORK TO THE NECESSARY DEPTH. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 3.5.4 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE THE NECESSARY PORTION OF THE MANHOLE 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. THE LOCATION OF THE REPAIR MUST BE APPROVED BY THE FIELD ENGINEER. THE QUANTITIES SHOWN ON THE PLANS ARE ESTIMATES.



- THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AND ACCESS TO ADJOINING PROPERTIES AT ALL TIMES IN WEST ST. PAUL AVENUE.
 - NO WORKSHAFT SHALL BE ALLOWED IN NORTH 27TH STREET.
 - WEST ST. PAUL AVENUE IS A MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS) BUS ROUTE.
 - 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 OR MS. GERRI SCHMIDT OF THE TRANSPORTATION SECTION, MUNICIPAL BUILDING, ROOM 920. CONTACT MR. JAMES BROWN AT 286-3276, OR MS. GERRI SCHMIDT AT 286-3632 WITH QUESTIONS REGARDING THE TRAFFIC CONTROL PLAN SUBMITTAL.
 - ALL SIGNS USED FOR TRAFFIC CONTROL SHALL MEET THE NEW NATIONAL REQUIREMENTS FOR SIGN RETROREFLECTIVITY STANDARDS.
 - THE CONTRACTOR SHOULD VISUALLY INSPECT THE PROJECT SITE, MANHOLES IN THE FIELD, AND/OR VIEW THE AVAILABLE VIDEOTAPED EXAMINATIONS OF THE SEWER AND MANHOLES PRIOR TO BIDDING. PLEASE NOTE THAT VIDEOTAPES DO NOT EXAMINE THE ENTIRE MANHOLE STRUCTURE. VIDEOTAPED 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.
 - 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 OF THE RESPECTIVE DIAMETER LINING. THE CURED-IN-PLACE LINER THICKNESS FOR THE RESPECTIVE DIAMETER SEWERS ARE LISTED IN THE FOLLOWING TABLE AND SHALL BE CONSISTENT THROUGHOUT THE PROJECT LIMITS. THE FLEXURAL MODULUS SHALL BE IN CONFORMANCE TO THE MINIMUM VALUES LISTED PER SPECIFICATION ASTM D790.
- | | |
|------------------|------------|
| Size | 400,000psi |
| (OR GREATER) | |
| 36-INCH COMBINED | 21.0 MM |
| 48-INCH COMBINED | 31.5 MM |
- 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 SEWERS, CURED-IN-PLACE SEWER LINING.
 - 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 BID PRICE FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE SEWER LINING.
 - 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. 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 WILL BE INCLUDED IN THE CONTRACT DOCUMENT. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE DIAMETER COMBINED CURED-IN-PLACE LINING.

SHEET NO. 1 OF 7 IS PLAN FILE NO. 231-32
 SHEET NO. 2 OF 7 IS PLAN FILE NO. 231-33
 SHEET NO. 3 OF 7 IS PLAN FILE NO. 231-34
 SHEET NO. 4 OF 7 IS PLAN FILE NO. 231-35
 SHEET NO. 5 OF 7 IS PLAN FILE NO. 232-11
 SHEET NO. 6 OF 7 IS PLAN FILE NO. 231-42
 SHEET NO. 7 OF 7 IS PLAN FILE NO. 232-12



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.			
DATE ENT'D.		ENT'D. BY	

ESTIMATE OF QUANTITIES	
ITEM NO.	DESCRIPTION
48036	18 FT. 36" DIA. COMB. CURED-IN-PLACE LINING
48048	363 FT. 48" DIA. COMBINED CURED-IN-PLACE LINING
50001	LUMP SUM BARRICADING
50015	LUMP SUM EROSION CONTROL
50060	1 RE-ESTABLISH 8" DIA. OUTSIDE DROP CONNECTION
61012	1 RE-ESTABLISH 12" DIA. CONNECTION
64001	1 VERT. FT. MANHOLE REPAIR
64400	84 VERT. FT. MANHOLE LINING

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

SEWER MAIN PLAN

IN FROM TO

W. ST. PAUL AVENUE
 150' ± E. OF N. 27TH STREET
 163' ± W. OF N. 27TH STREET

HORIZONTAL 1" = 30'
 VERTICAL 1" = 10'

SCALE

IN SEC. NO. 400,401

PLAN DATE 11/20/12

DESIGNED BY J. RADOMSKI

DRAWN BY D. CHOI

CHECKED BY R. PARIKH

SYSTEM NO. 3016

EASEMENT NO. CITY ENGINEER & SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS

CONTRACT NO. PROJECT NO. 1 C.C. FILE NO.

PROJ. ID. SM495120089 OFF. NOTICE NO. 13-02 DATE ADOPTED 1/15/2013

SHEET NO. 7 OF 7 PLAN FILE NO. 232-12

APPROVED DATE 12/6/2012
 Zafar Yousof DESIGN ENGINEER

12/6/2012
 Timothy J. Han ENGINEER IN CHARGE

12/6/2012

LINE CODE LEGEND		
GAS	— G —	SANITARY SEWER
ELECTRIC	— E —	STORM SEWER
TELEPHONE	— T —	COMBINED SEWER
CABLE TELEVISION	— TV —	SEW. DISTRICT SEWER
FIBER OPTICS	— FO —	WATER MAIN
CITY UNDERGROUND CONDUIT	— CUC —	SEWER/WATER 24" & OVER
STREET LIGHTING	— SL —	PAVING LIMITS
STRUCTURE/BUILDING	— S/B —	FENCE
HYDRANT	— H —	ALUMINUM POLE
CONCRETE POLE	— CP —	WOOD POLE