

SHAKOPEE, MINNESOTA

CONSTRUCTION PLANS FOR

SOUTHBRIDGE LIFT STATION

REHABILITATION

CITY PROJECT NO. SEWER-23-002

2023

Statement of Estimated Quantities					
Item No.	2020 MN/DOT Spec No.	Item	Notes	Unit	Estimated Quantity
1	2021.501	Mobilization		Lump Sum	1
2	2104	Remove Bituminous Pavement/Driveway		SQ FT	1545
3	1404.1	Salvage Aggregate Base		SQ FT	1545
4		Lift Station Removals	1	Lump Sum	1
5		Lift Station Pumps, Submersible Mixer, and Apparatus	2,3	Lump Sum	1
6		Lift Station Piping and Valves	2	Lump Sum	1
7	2503	Bypass Pumping		Lump Sum	1
8		Bollards Guard Post		Each	2
9	2360	Bituminous Driveway	5	SQ FT	1545
10		Concrete Pad with reinforcement		SQ FT	27
11		Electrical, controls, Control Panel and all associated apparatus	4	Lump Sum	1
12		Fiber connection and installation Allowance		Lump Sum	1
ALT 1		Wet Well Interior and Piping Coating/Painting	2	Lump Sum	1
ALT 2		Bypass Piping Installation	2	Lump Sum	1
(1)		Includes removal of all internal equipment specified on the plan set in both the wet well and valve vault.			
(2)		Includes Labor & Equipment Specified in the Plan and Specs in the Wet Well and Valve Vault.			
(3)		Includes all work associated with the Submersible mixer, air compressor, prefabricated enclosure specified in the plans and specs.			
(4)		Includes all electrical and controls associated with the lift station as outlined in the plans and specs.			
(5)		Includes Aggregate base			

GOVERNING SPECIFICATIONS

THE SOUTHBRIDGE LIFT STATION REHABILITATION SPECIFICATIONS, THE SHAKOPEE PUBLIC UTILITIES COMMISSION WATER POLICY MANUAL AND THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL , 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

SHEET INDEX

SHEET NO. GENERAL

- 1.01 TITLE, LOCATION MAP, AND SHEET INDEX
- 1.02 LEGEND
- 1.03 STANDARD DETAILS

SITE

- 2.01 SITE PLAN - EXISTING & PROPOSED

PROCESS

- 5.01 EXISTING LIFT STATION EXISTING CONDITIONS/DEMOLITION PLAN
- 5.02 PROPOSED LIFT STATION PLAN & SECTION
- 5.03 PROPOSED LIFT STATION PLAN & SECTION - BID ALTERNATE NO. 2

ELECTRICAL

- 7.01 ELECTRICAL SYMBOLS & ABBREVIATIONS
- 7.02 ELECTRICAL SITE PLAN
- 7.03 ELECTRICAL DETAILS

ABBREVIATIONS

AER	AERATION
AGG	AGGREGATE
CL	CLASS
DIP	DUCTILE IRON PIPE
EA	EACH
ELEV	ELEVATION
FIG	FIGURE
HWL	HIGH WATER LEVEL
INV	INVERT ELEVATION
LB	POUND
LWL	LOW WATER LEVEL
MIN	MINIMUM, MINUTE
NO	NUMBER, NORMALLY OPEN
OC	OVER CROSSING, ON CENTER
OD	OUTSIDE DIAMETER
SPEC	SPECIFICATION
S.S.	STAINLESS STEEL
TYP	TYPICAL



PROJECT LOCATION



BM=851.65 MnDOT GSID STATION #97203 - "KSON MNDOT RESET" JUNCTION OF CO. RD. 69 & HIGHWAY 169	PROJECT DATUM: HORIZONTAL: SCOTT COUNTY COORDINATE SYSTEM, NAD83 (1996 ADJUSTMENT) VERTICAL: NAVD88
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA			
SIGNATURE: <i>Brian J. Guldán</i>	PRINTED NAME: Brian J. Guldán	TYPED OR PRINTED NAME: Brian J. Guldán	
DATE: 10/11/2023	LIC. NO. 49575		



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DESIGNED	KO-W	NO.	ISSUED FOR	DATE
DRAWN	JJP	0	BID	10/11/23
CHECKED	BJG			
CLIENT PROJ. NO.	0M2.130594			

SHAKOPEE, MINNESOTA
SOUTHBRIDGE LIFT STATION REHABILITATION
TITLE, LOCATION MAP, AND SHEET INDEX

SHEET

1.01