

CIVIL BOUNDARY LEGEND

---	SECTION LINE
---	PROPERTY BOUNDARY
---	PROPERTY LINE / LOT LINE
---	EASEMENT LINE
---	R/W
---	P/E
---	C/E
---	RIGHT-OF-WAY
---	PERMANENT EASEMENT
---	CONSTRUCTION EASEMENT

CIVIL UTILITY LEGEND

EXISTING	PROPOSED	
○	●	SANITARY SEWER
○	●	SANITARY MANHOLE
○	●	SANITARY CLEANOUT
○	●	SANITARY DROP MANHOLE
○	●	SANITARY WYE
○	●	SANITARY PLUG
○	●	SANITARY PIG
○	●	STORM DRAIN PIPE
○	●	AREA INLET
○	●	BEEHIVE INLET
○	●	CURB INLET
○	●	STORM MANHOLE
○	●	FES OUTFALL
○	●	WATER LINE
○	●	CURB STOP
○	●	WATER MANHOLE
○	●	AIR RELEASE MANHOLE
○	●	METER MANHOLE
○	●	GATE VALVE
○	●	BLOW-OFF HYDRANT
○	●	FIRE HYDRANT
○	●	WELL
○	●	AIR RELEASE HYDRANT
○	●	BUTTERFLY VALVE
○	●	PRESSURE REDUCING MANHOLE
○	●	SLIDE MANHOLE
○	●	PLUG VALVE
○	●	WATER CROSS
○	●	WATER TEE
○	●	WATER FITTING
○	●	WATER CAP
○	●	WATER COUPLING
○	●	WATER REDUCER
○	●	SADDLE
○	●	CABLE TV LINE
○	●	CABLE TV PEDESTAL
○	●	TELEPHONE LINE
○	●	TELEPHONE PEDESTAL
○	●	FIBER OPTIC LINE
○	●	FIBER OPTIC PEDESTAL
○	●	GAS LINE
○	●	GAS LINE VENT
○	●	ELECTRIC, UNDERGROUND
○	●	ELECTRIC, OVERHEAD
○	●	ELECTRIC UTILITY POLE
○	●	ELECTRIC BOX
○	●	ELECTRIC MANHOLE
○	●	ELECTRIC GUY
○	●	ELECTRIC LIGHT
○	●	ELECTRIC SIGNAL ARM
○	●	ELECTRIC SIGNAL
○	●	ELECTRIC PUSH-TO-WALK
○	●	UNKNOWN PEDESTAL
○	●	UNKNOWN MANHOLE

CIVIL TOPOGRAPHIC LEGEND

EXISTING	PROPOSED	
---	---	BUILDING
---	---	FENCE, BARBED WIRE
---	---	FENCE, WOVEN WIRE
---	---	FENCE, CHAINLINK
---	---	FENCE, WOOD
---	---	FENCE, VINYL
---	---	TREE - GROUP
---	---	TREE - DECIDUOUS
---	---	SHRUB / BUSH
---	---	SIGN
---	---	MILE POST
---	---	BORE HOLE
---	---	RIGHT-OF-WAY MONUMENT
---	---	CONTOUR - INDEX
---	---	CONTOUR - INTERMEDIATE

CIVIL SURFACE LEGEND

EXISTING	PROPOSED	
---	---	BITUMINOUS PAVEMENT
---	---	CONCRETE
---	---	GRAVEL

CITY OF SHAKOPEE, MINNESOTA

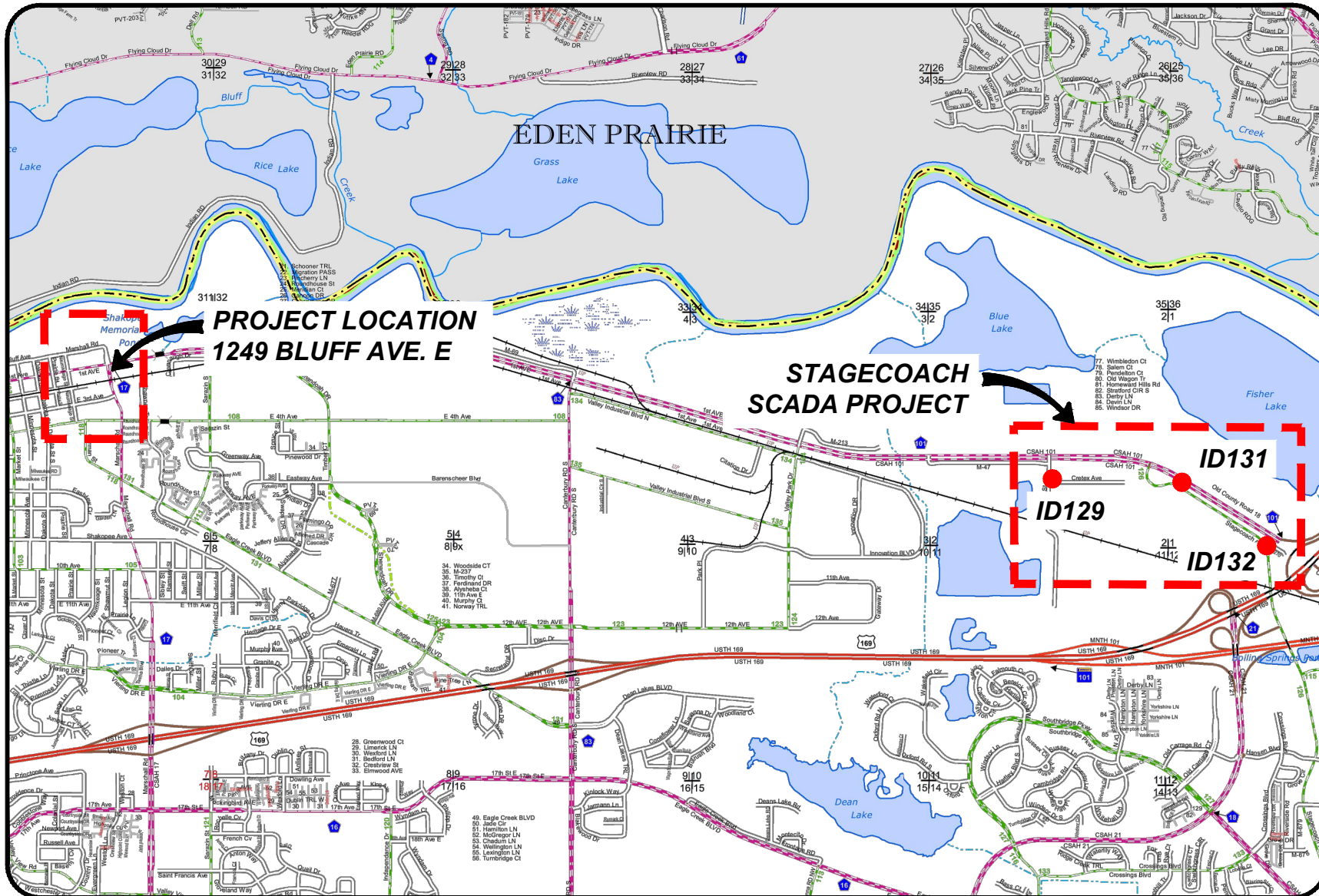
CONSTRUCTION PLANS

FOR

SANITARY SEWER LIFT STATION L16

REHABILITATION

CITY PROJECT NO. SEWER-19-001



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MNMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL C. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 28-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

NOTE:
THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, FIBEROPTIC, ELECTRIC, CABLE TV, AND PIPE LINES ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL BEFORE COMMENCING EXCAVATION. GOPHER STATE ONE TICKET NO. XXXXXX.

PLAN REVISIONS

DATE	SHEET NO.	APPROVER

SHEET INDEX

SHEET NUMBER	SHEET TITLE
G001	COVER
C101	GENERAL CIVIL CONSTRUCTION NOTES
C102	EXISTING CONDITIONS
C103	BYPASS SYSTEM PLAN AND PROFILE
C104	AIR & VACUUM RELEASE STRUCTURE MODIFICATIONS
C105	DIVERSION MANHOLE MODIFICATIONS
C106	CIVIL DETAILS
S001	STRUCTURAL NOTES
S100	STRUCTURAL FRAMING PLANS
P001	PROCESS GENERAL SHEET
P101	DEMOLITION - PLAN VIEW
P102	PROPOSED IMPROVEMENTS - PLAN VIEW
P301	DEMOLITION - SECTION VIEWS
P302	DEMOLITION - SECTION VIEWS
P303	PROPOSED IMPROVEMENTS - SECTION VIEWS
P304	PROPOSED IMPROVEMENTS - SECTION VIEW
P701	LIFT STATION L16 DEMOLITION
P702	LIFT STATION L16 PROPOSED IMPROVEMENTS
M001	MECHANICAL SYMBOLS AND ABBREVIATIONS
M101	VALVE VAULT AND OPERATIONS LEVEL MECHANICAL DEMOLITION PLANS
M102	VALVE VAULT AND OPERATIONS LEVEL MECHANICAL PLANS
M601	MECHANICAL DETAILS AND EQUIPMENT SCHEDULES
E001	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E002	SCADA NETWORK OVERVIEW
E003	LIFT STATION OVERALL SITE PLAN
E004	WET WELL NO. 1 SECTION
E101	VALVE VAULT AND OPERATIONS LEVEL DEMOLITION PLAN
E102	OPERATIONS LEVEL PROCESS PLAN
E103	VALVE VAULT AND OPERATIONS LEVEL LGPM PLAN
E104	L16 VARIOUS IMAGES
E105	L16 BACKPANEL DETAIL
E106	L16 CONTROL PANEL IO SCHEDULE
E107	EXISTING SWITCHGEAR AND VFD ONE-LINE DIAGRAM
E108	NEW SWITCHGEAR AND VFD ONE-LINE
E109	VFD WIRING SCHEMATIC
E110	PANEL SCHEDULE
E111	VARIOUS SCHEDULES
E112	PUBLIC WORKS MASTER PLC
E113	PUBLIC WORKS SCADA MASTER PLC PANEL
E114	SCADA MASTER PLC CONTROL PANEL IO SCHEDULE
* E115	ID129 LOCATION SITE PLAN
* E116	ID129 CONTROL PANEL LAYOUT
* E117	ID129 CONTROL PANEL IO SCHEDULE
* E118	ID131 LOCATION SITE PLAN
* E119	ID132 LOCATION SITE PLAN
* E120	ID131 AND ID132 CONTROL PANEL LAYOUT
* E121	ID129, ID131, AND ID132 CONTROL PANEL ONE-LINE DIAGRAM
E601	VARIOUS SCHEMATICS
E602	VARIOUS DETAILS

* THE COST FOR ALL WORK ASSOCIATED WITH SHEETS E115 - E121 SHALL BE BID AS THE "STAGE COACH FLOW MONITORING" LINE ITEM ON THE BID FORM.

THIS PLAN CONTAINS 49 SHEETS

DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR.
DRAWINGS NOT IN COLOR WILL NOT ACCURATELY DISPLAY
NECESSARY INFORMATION.



I HERBY CERTIFY THAT THIS PLAN 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.

PRINT NAME: STEVEN G. NELSON LICENSE # 24388

DATE: 1-18-2022 SIGNATURE:

SHEET NO. 1 OF 49 SHEETS