CITY OF AURORA

CONSTRUCTION PLANS FOR

RESOURCE LIST UTILITIES

CITY OF AURORA GAS

Aurora City Clerk Minnesota Energy Resources
16 W 2ND AVENUE N Kyle Lee, Lindsay Lyle
AURORA, MN 55705 800-889-4970

City Administrator: Lucas Heikkila <u>TELEPH</u>

Mayor: Doug Gregor Consolidated Telephone Eddie Dolezal
City Council Members: 218-368-8640

John Miklausich
Dan Goette Frontier Communications
Bob Hanson Chris Pollack
Richard Hess 800-778-9140

CABLE

PROJECT LOCATION =

City Engineer:

JOSHUA STIER, PE

Bob Frazer, Scott Sandquist

 Bolton & Menk, Inc.
 800-778-9140

 4960 Miller Trunk Highway
 Zito Media

 Duluth, MN 55811
 Skylar Thompsor

218-340-1243

Public Works Supervisor:
Russel Siltman <u>ELECTRIC</u>

Water/Wastewater Supervisor: Minnesota Power
Jim Gentilini Deb Kellner, Beau Pocquette
608-223-2014

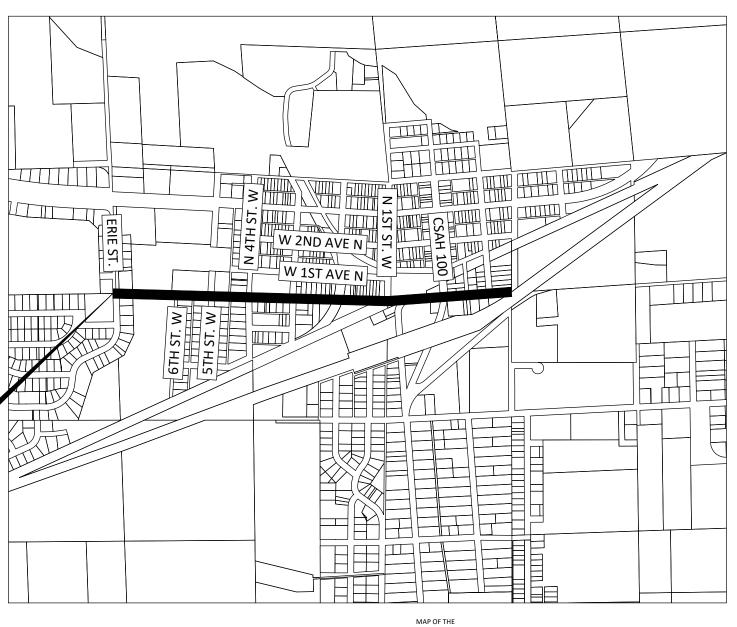
NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

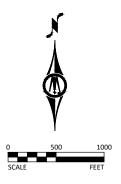
2024 CENTRAL AVENUE PAVEMENT REPAIRS

AGGREGATE BASE, BITUMINOUS PAVEMENT

MARCH 2024



SHEET NUMBER	SHEET TITLE
G0.01-G0.02	TITLE SHEET, LEGEND
C1.01	CONSTRUCTION DETAILS
C6.01 - C6.02	PROPOSED CONSTRUCTION PLAN
	THIS PLAN SET CONTAINS <u>5</u> SHEETS.



PROJECT LIMITS

BID LOCATION

MAP OF THE
CITY OF AURORA
ST. LOUIS COUNTY, MN

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 MEINEBURDIDES HE LAWS OF THE STATE OF MINNESOTA.

JOSHUA G. STIER

10 S4171

DATE

03/27/2024



4960 MILLER TRUNK HIGHWAY, SUITE 550 DULUTH, MN 55811 Phone: (218) 729-5939 Email: Duluth@bolton-menk.com www.bolton-menk.com

/*	MDS MDS	NO.	ISSUED FOR	DATE	CITY OF AURORA, MINNESOTA	SHEET
* * *	MDS	H			2024 CENTRAL AVENUE PAVEMENT REPAIRS	\Box GO O
Awrora	JGS CLIENT PROJ. NO.	F			TITLE SHEET	G0.0
Minnesote's Sear of the North	0U1.133408				11122 31122 1	

EXIS	TING TOPOGRAPHIC SYMBOLS			SURVEY SYMBOLS	EXISTI
	ACCESS GRATE	6	REGULATION STATION GAS	⊕ BENCHMARK LOCATION ® CAST IRON MONUMENT	NOTE: EXISTING
AC	AIR CONDITION UNIT	% -	SATELLITE DISH	♦ CONTROL POINT ■ STONE MONUMENT	EXACT LO
\otimes	ANTENNA		SIGN TRAFFIC	 MONUMENT FOUND 	651-454-
⇔	AUTO SPRINKLER CONNECTION	田	SIGNAL CONTROL CABINET	EVICTING TODOGRAPHIC LINES	THE SUB: DETERMI
	BARRICADE PERMANENT	*	SOIL BORING	EXISTING TOPOGRAPHIC LINES	EXISTING
Q	BASKETBALL POST	B	SIREN	RETAINING WALL	
	BENCH		TELEPHONE BOOTH	——————————————————————————————————————	
-B-	BIRD FEEDER		TILE INLET	FENCE-DECORATIVE GUARD RAIL	
®	BOLLARD	©TILE	TILE OUTLET	· A-Authoritation Authoritation . Like Tine	c
0	BUSH		TILE RISER	BUSH LINE	—— 0
	CATCH BASIN RECTANGULAR CASTING		TRANSFORMER-ELECTRIC	SURVEY LINES	UTILITIES
\bigcirc	CATCH BASIN CIRCULAR CASTING	*	TREE-CONIFEROUS		LINE TYP
8	CURB STOP	*	TREE-DEAD	CONTROLLED ACCESS BOUNDARY	UTILITY (
(C)	CLEAN OUT	©	TREE-DECIDUOUS	CENTERLINE	UTILITY (
⊕CLVT	CULVERT END	P	TREE STUMP	EXISTING EASEMENT LINE	QUALITY
8	DRINKING FOUNTAIN	0=	TRAFFIC ARM BARRIER	PROPOSED EASEMENT LINE — — — — — — — — — EXISTING LOT LINE	RECORDS CONSTRU
D	DOWN SPOUT	(3)	TRAFFIC SIGNAL	PROPOSED LOT LINE	
EV	ELECTRIC CAR CHARGE STATION	O TRASH	TRASH CAN	EXISTING RIGHT-OF-WAY	QUALITY METERS,
(Ē)	FILL PIPE	U	UTILITY MARKER	PROPOSED RIGHT-OF-WAY	CREATE (
- 	FIRE HYDRANT	×	VALVE	SETBACK LINE	QUALITY COLLECT
~	FLAG POLE		VALVE POST INDICATOR	QUARTER LINE	
⊳	FLARED END / APRON		VALVE VAULT	SIXTEENTH LINE	QUALITY QUALITY
	FUEL PUMP	V	VAULT	TEMPORARY EASEMENT	PROFILE
•	GRILL	V	VENT PIPE	EXISTING UTILITY LINES	ABBRE
— ←	GUY WIRE ANCHOR	⊗ws	WATER SPIGOT		Α
H	HANDHOLE		WELL	>> SANITARY SEWER	ADJ
E.	HANDICAP SPACE	Δ	WETLAND DELINEATED MARKER	→ → → → → → → → → → → → SANITARY SERVICE	ALT B-B
æ	IRRIGATION SPRINKLER HEAD	<u> 1</u>	WETLAND	\longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow STORM SEWER DRAIN TILE	BIT
×	IRRIGATION VALVE BOX	ww	WET WELL	WATERMAIN	BLDG
CP	LIFT STATION CONTROL PANEL	· · · · · · · · · · · · · · · · · · ·	YARD HYDRANT		BMP BR
(L)	LIFT STATION	•	TARE ITTERACT	PROPOSED UTILITY LINES	BV
*	LIGHT POLE	PROPOS	ED TOPOGRAPHIC SYMBOLS		СВ
~	MAILBOX	110103	LD TOTOGRAFTIIC STIVIDOLS		C&G CIP
©	MANHOLE-COMMUNICATION	•	CLEANOUT	$\longrightarrow \longrightarrow \longrightarrow$ SANITARY SERVICE	CIPP
(E)	MANHOLE-ELECTRIC	•	MANHOLE	>>>> STORM SEWER	CL CL.
(G	MANHOLE-GAS		LIFT STATION	→> →> →> →> →> →> →> →> STORM SEWER DRAIN TILE — — — — — — WATERMAIN	CL. CLVT
H	MANHOLE-HEAT	•	STORM SEWER CIRCULAR CASTING		CMP
(W)	MANHOLE-RECLAIMED WATER		STORM SEWER RECTANGULAR CASTING	PIPE CASING	C.O.
(S)	MANHOLE-SANITARY SEWER	•	STORM SEWER FLARED END / APRON	TRENCHLESS PIPE (PLAN VIEW)	COMM CON
(D)	MANHOLE-STORM SEWER	•	STORM SEWER OUTLET STRUCTURE	TRENCHLESS PIPE (PROFILE VIEW)	CSP
0	MANHOLE-UTILITY	•	STORM SEWER OVERFLOW STRUCTURE	GRADING INFORMATION	DIA DIP
(W)	MANHOLE-WATER	٥	CURB BOX		DWY
M	METER METER	+	FIRE HYDRANT	EXISTING CONTOUR MINOR	E
	DRIVE-THRU MICROPHONE	×	WATER VALVE	950 EXISTING CONTOUR MAJOR PROPOSED CONTOUR MINOR	ELEC ELEV
A 	PARKING METER	•	WATER REDUCER	950 PROPOSED CONTOUR MAJOR	EOF
<u></u>	PAVEMENT MARKING	Þ	WATER BEND	PROPOSED GRADING LIMITS / SLOPE LIMITS	ER
C	PEDESTAL-COMMUNICATION	西	WATER TEE	PROJECT LIMITS × 953.53 × 5TA:5+67.19 980.87 PROPOSED SPOT ELEVATION	ESMT EX
E	PEDESTAL-ELECTRIC PEDESTAL-ELECTRIC	-	WATER CROSS	1:4 RISE:RUN (SLOPE)	FES
Ш ОН	PEDESTRIAN PUSH BUTTON	=	WATER SLEEVE	HATCH PATTERNS	F-F
5	PICNIC TABLE	П	WATER CAP / PLUG		FF F&I
ø		&	RIP RAP	BITUMINOUS GRAVEL	FM FM
D D	POLE-UTILITY POST	-	DRAINAGE FLOW	[SOSDODOSOS]	FO
W	POST	Þ٢	TRAFFIC SIGNS	CONCRETE	F.O. GRAN
<><	RAILROAD SIGNAL POLE	I HEREBY CERTIFY T	HAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED	AOCO MILIED TOLINIV DICCIMAN CHITE FFO	DESIGNED MDS
		PROFESSIONAL EN	NY DIRECT SUPERVISION AND THAT I AM A DOLY LICENSED SINEER VINDER THE LAWS OF THE STATE OF MINNESOTA.	BOLTON 4960 MILLER TRUNK HIGHWAY, SUITE 550 DULUTH, MN 55811 Phone: (218) 729-5939 Email: Duluth@bolton-menk.com www.bolton-menk.com	DRAWN MDS
		JOSHUA G. S		Email: Duluth@bolton-menk.com www.bolton-menk.com	JGS
			54171 03/27/2024 DATE	WWW.DOILON-ITTERIK.COTTI	CLIENT PROJ. NO. 0U1.133408

EXISTING PRIVATE UTILITY LINES

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

SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS RMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING LINE UTILITIES".

UNDERGROUND FIBER OPTIC UNDERGROUND ELECTRIC UNDERGROUND GAS UNDERGROUND COMMUNICATION OVERHEAD ELECTRIC OVERHEAD COMMUNICATION OVERHEAD UTILITY

TIES IDENTIFIED WITH A QUALITY LEVEL :

TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL

MPLE: GA GA UNDERGROUND GAS, QUALITY LEVEL A TY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

TY QUALITY LEVELS:

ITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, TRUCTION PLANS, ETC.

LTY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND RS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO TE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

ITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND ECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

ITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN ITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND

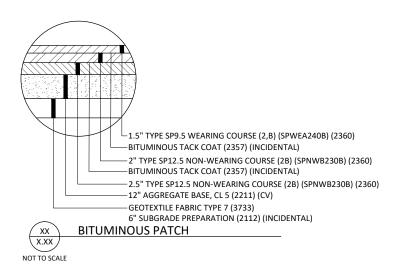
BREVIATIONS

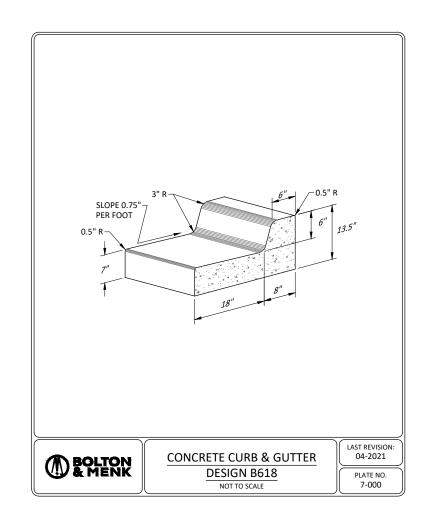
ALT B-B BIT BLDG BMP BR BV CB C&G CIP CIPP CL CL B-B B-B B-B C&C CL	ADJUST ALTERNATE BACK TO BACK BITUMINOUS BUILDING BEST MANAGEMENT PRACTICE BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS CULVERT	GU GV HDPE HH HP HWL HYD I K L LO LP	GUTTER GATE VALVE HIGH DENSITY POLYETHYLENE HANDHOLE HIGH POINT HIGH WATER LEVEL HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	RT SAN SCH SERV SHLD STA STD TC TE TEMP TNH	RIGHT SANITARY SEWER SCHEDULE SERVICE SHOULDER STATION STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY TOP NUT HYDRANT
B-B E BIT E BLDG E BMP E BR E G G C G C G C C C C C C C C C C C C C	BACK TO BACK BITUMINOUS BUILDING BEST MANAGEMENT PRACTICE BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	HDPE HH HP HWL HYD I K L LO LP	HIGH DENSITY POLYETHYLENE HANDHOLE HIGH POINT HIGH WATER LEVEL HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	SCH SERV SHLD STA STD STM TC TE TEMP	SCHEDULE SERVICE SHOULDER STATION STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
BIT E BLDG E BMP E BR E CB CCB CIP CIPP CL CL CL.	BITUMINOUS BUILDING BEST MANAGEMENT PRACTICE BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	HH HP HWL HYD I K L LO LP LT	HANDHOLE HIGH POINT HIGH WATER LEVEL HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	SERV SHLD STA STD STM TC TE TEMP	SERVICE SHOULDER STATION STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
BLDG	BUILDING BEST MANAGEMENT PRACTICE BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	HP HWL HYD I K L LO LP LT	HIGH POINT HIGH WATER LEVEL HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	SHLD STA STD STM TC TE TEMP	SHOULDER STATION STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
BMP	BEST MANAGEMENT PRACTICE BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	HWL HYD I K L LO LP LT	HIGH WATER LEVEL HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	STA STD STM TC TE TEMP	STATION STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
BR	BEGIN RADIUS BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	HYD I K L LO LP LT	HYDRANT INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	STD STM TC TE TEMP	STANDARD STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
BV E CB C C&G CIP CIPP CL CL.	BUTTERFLY VALVE CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	I K L LO LP LT	INVERT CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	STM TC TE TEMP	STORM SEWER TOP OF CURB TEMPORARY EASEMENT TEMPORARY
CB (C&G (CIP (CIPP (CIPP (CL (CL (CIP) (CIPP (CL (CIPP	CATCH BASIN CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	K L LO LP LT	CURVE COEFFICIENT LENGTH LOWEST OPENING LOW POINT	TC TE TEMP	TOP OF CURB TEMPORARY EASEMENT TEMPORARY
C&G (CIP (CIPP (CL (CL. (CE)	CURB AND GUTTER CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	L LO LP LT	LENGTH LOWEST OPENING LOW POINT	TE TEMP	TEMPORARY EASEMENT TEMPORARY
CIP (CIPP (C	CAST IRON PIPE CURED-IN-PLACE PIPE CENTER LINE CLASS	LO LP LT	LOWEST OPENING LOW POINT	TEMP	TEMPORARY
CIPP CL CL.	CURED-IN-PLACE PIPE CENTER LINE CLASS	LP LT	LOW POINT		
CL (CL.	CENTER LINE CLASS	LT		TNH	TOP NUT HYDRANT
CL.	CLASS		LEET		
			LEFT	TP	TOP OF PIPE
	CULVERT	MAX	MAXIMUM	TYP	TYPICAL
CLVT (МН	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O. (CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTIO
CON (CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA I	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP I	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY I	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E 6	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC E	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV E	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF E	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER E	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT E	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX E	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES I	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF F	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
	FIBER OPTIC	R/W	RIGHT-OF-WAY		
	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
	GRANULAR	RET	RETAINING		
	ISSUED FOR DATE		CITY OF AURORA, MINN	IECOTA	SHEET

2024 CENTRAL AVENUE PAVEMENT REPAIRS

LEGEND

G0.02









4960 MILLER TRUNK HIGHWAY, SUITE 550 DULUTH, MN 55811 Phone: (218) 729-5939 Email: Duluth@bolton-menk.com www.bolton-menk.com

	DESIGNED	NO.	ISSUED FOR	DATE	CITY OF ALIDODA MAININECOTA	SHEET
*	MDS				CITY OF AURORA, MINNESOTA	SHEET
*	DRAWN				2024 051175 11 11/5111/5 21/5175 252175	
* *	MDS		2024 CENTRAL AVENUE PAVEMENT REPAIRS	C1 01		
	CHECKED					
Awrora	JGS	\vdash			DETAILS & SEQ	
	CLIENT PROJ. NO.	\vdash			DETAILS & SEQ	
Minnenote's Star of the North	U 0U1.133408					

