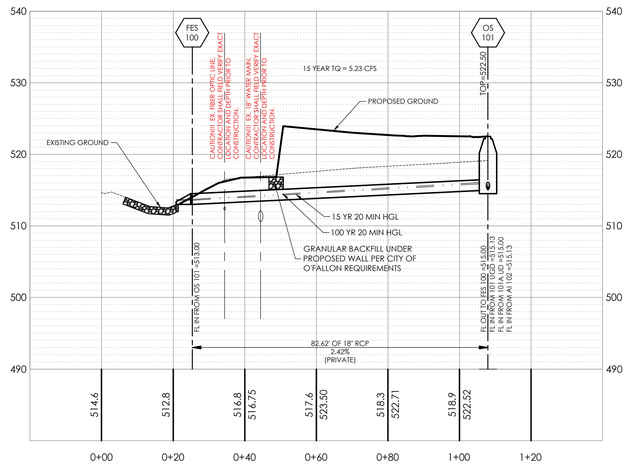
15 YEAR 20 MIN EVENT

LineNo.	LineID	InletID	LineLength (ft)	LineSize (in)	n-valuePipe	InvertUp (ft)	InvertDn (ft)	LineSlope (%)	Grnd/RimElev Up (ft)	Grnd/RimElev Dn (ft)	DepthUp (ft)	HGLUp (ft)	HGLDn (ft)	Rim-Hw (ft)	Defl.Angle (Deg)	VelDn (ft/s)	VelHd Dn (ft)	J-LossCoeff	EnergyLoss (ft)	MinorLoss (ft)	KnownQ (cfs)	FlowRate (cfs)	QCaptured (cfs)	CapacityFull (cfs)	QBypass (cfs)	BypassDepth (ft)	BypassSpread (ft)	InletEff (%)
1	101 - 100	101	82.618	18	0.013	515.00	513.00	2.42	522.50	514.25	0.88**	515.88	513.58	6.62	-3.419	8.22	0.37	1.00 z	0.000	n/a	5.23	5.23	....	16.34	....	....	....	....

100 YEAR 20 MIN EVENT

LineNo.	LineID	InletID	LineLength (ft)	LineSize (in)	n-valuePipe	InvertUp (ft)	InvertDn (ft)	LineSlope (%)	Grnd/RimElev Up (ft)	Grnd/RimElev Dn (ft)	DepthUp (ft)	HGLUp (ft)	HGLDn (ft)	Rim-Hw (ft)	Defl.Angle (Deg)	VelDn (ft/s)	VelHd Dn (ft)	J-LossCoeff	EnergyLoss (ft)	MinorLoss (ft)	KnownQ (cfs)	FlowRate (cfs)	QCaptured (cfs)	CapacityFull (cfs)	QBypass (cfs)	BypassDepth (ft)	BypassSpread (ft)	InletEff (%)
1	101 - 100	101	82.618	18	0.013	515.00	513.00	2.42	522.50	514.25	1.07**	516.07	513.72	6.43	-3.419	9.10	0.50	1.00 z	0.000	0.50	7.69	7.69	....	16.34	....	....	....	....



UNDERGROUND UTILITIES AND OSHA SAFETY NOTE:

Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction. All O.S.H.A rules and regulations established for the type of construction required by these plans shall be strictly followed (ie. trenching, blasting, etc.)

\\Vault-p\vault\CIVIL 3D PROJECTS\2022\2214120_NP_2896 Hwy K\ENGINEERING\CONSTRUCTION DRAWINGS\SHEETS\C-400 STORM SEWER PROFILES.dwg

PREMIER DESIGN GROUP
100 MIDLAND PARK DRIVE
WENTZVILLE, MO 63385
MISSOURI CERTIFICATE OF AUTHORITY #: 2008000031
MISSOURI CERTIFICATE OF AUTHORITY #: 2002007849

STATE OF MISSOURI
SCOTT FELDT
NUMBER
PE-2021009371
4/19/24
PROFESSIONAL ENGINEER

ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions, after this date, unauthenticated.

SCOTT FELDT P.E.
PROFESSIONAL ENGINEER
PE 2021009371

Project
RCP-N LLC
2892 HIGHWAY K SANITARY SEWER MAIN EXTENSION
2892 HIGHWAY K
O'FALLON, MO 63366
RCP-N LLC
660 OFFICE PARKWAY
CREVE COEUR, MO 63141

Date 4/19/2024

#	Revision Date	Description of Changes

Sheet Title
STORM SEWER PROFILES

Sheet Number
C-400

Project No.	2214120
Drawn By	D. STOSZ
Checked By	S. FELDT

NOT RELEASED FOR CONSTRUCTION