- 1. Lineal foot measurements shown on the plans are horizontal measurements, not slope measurements. All payments shall be made on horizontal measurements.
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- 4. The contractor shall adhere to the provisions of the Senate Bill Number 583,78th General Assembly of the State of Missouri. The bill requires that any person of firm doing excavation on public right-of-way do so only after giving notice to, and obtaining information from, utility companies. State law requires 48 hours advance notice. The names and telephone numbers of utility companies, even if only remotely involved with this project are provided. Prior to commencement of work, the contractor shall notify all those companies which have facilities in the near vicinity of the construction to be performed.
- 5. All waste material resulting from the project shall be disposed of off-site by the contractor.
- 6. All excavation shall be unclassified. No separate payment will be made for rock excavation.
- 7. The contractor shall control the erosion and siltation during all phases construction, and he shall keep the streets clean of mud and debris.
- 8. All manholes, catch basins, utility valves and meter pits to be adjusted or rebuilt to grade as required. All existing utilities shall be adjusted as required.
- 9. Subgrade soil for all concrete structures, regardless of the type or location, shall be firm, dense and thoroughly compacted and consolidated: shall be free from muck and mud; and shall be sufficiently stable to remain firm and intact under the feet of the 10, workmen or machinery engaged in subgrade surfacing, laying reinforcing steel, and
- depositing concrete thereon. In all cases where subsoil is mucky or works into mud or muck during such operation, a seal course of either concrete or rock shall be placed below subgrade to provide a firm base for working and for placing the floor slab.
- 11. The contractor is responsible for providing all surveying that may be required.
- 12. Easements indicated on these drawings will be provided for on the final plat and properly dimensions. Easements outside the platted area will be provided for by separate documents prior to issuance of a construction permit.

STREETS & STORM SEWER

- 1. All construction shall follow the City of Lee's Summit Design and Construction Manual as adopted by Ordinace 5813.
- 2. High Density Plastic Pipe (HDPE) shall conform to A.A.S.H.T.O. M-294.
- 3. Reinforced Concrete Pipe (RCP) shall conform to ASTM Designation C-76-62T (Class III).
- 4. Curb Return Radius, 15' minimum unless shown otherwise.

of Health and Missouri Clean Water Commission.

- 5. The top 6" of roadway subgrade shall be undercut and compacted to minimum 95% of maximum density at optimum moisture as determined by AASHO T99, Method B. Contractor shall provide for moisture-density and relative density tests on roadway subgrade by an accepted testing firm. Contractor shall provide for in-place density test on compacted subgrade by an accepted testing firm. In-place density test shall be conducted every 50-feet along the proposed roadway. Contractor shall provide testing results to Engineer.
- All Flared End Sections shall be installed with Toe Wall. (See Toe Wall Detail on Storm Sewer Detail Sheet) WATER
- 1. All construction shall follow the City of Lee's Summit Design and Construction Manual as adopted by Ordinace 5813 and with all the requirements of the Missouri Department
- 2. Class 50 Ductile Iron Pipe or C900 pipe shall be used per city specifications
- 3. All fittings shall be lined inside and out with an asphaltic base or bitumastic coating, and shall be megalug.
- 4. Fire Hydrants shall be Waterous Pacer WB-67 with non-rising stem or approved equal by the City Engineer. Hydrants shall have 5 1/4" valve with 4 1/2" pumper nozzle and 2-2 1/2" hose nozzles (left hand opening).
- \sim Gate Valves to be on city approved product list valves 12 inches and larger shall be Butterfly valves manufactured by the Henry Pratt Company or City Engineer Approved equal Left hand opening minimum 200# testing AWWA.
- Valve boxes shall be Clay & Bailey # P1108 or any on city approved product list. All boxes to be installed out of pavement areas. 7. Water lines are to be constructed to a depth of 4 feet below and back of street curbs. Street grading is to be complete prior to waterline placement.
- 8. Easements for water lines located outside the platted area will be provided for
- by separate documents after the Final Plat is recorded.
- All tees, bends, plugs, valves and hydrants shall be provided with reaction blocking. Pre-cast blocks shall not be used.
- 10. After water mains have been laid and partially backfilled, they shall be subject to a hydrostatic pressure test of not less than 150 psi, in accordance with AWWA C605. The line shall be pressurized to test pressure and closed for two hours. At the end of the two-hour period, the line shall be repressurized and the volume of water required to restore pressure shall be measured. The maximum amount of water to restore pressure shall be 0.5 gallons per 1000 feet of tested main. Testing shall be done by Contractor in presence of Engineer.
- 11. Before connecting to City water mains and prior to wet tap, the new main shall be disinfected in accordance with AWWA C651. A 1 percent solution of chlorine shall be pumped into the water main, such that the water in the line will not have less than 25 mg/l of free chlorine. At the end of a 24 hour period, the water shall be tested to ensure that at least 10 mg/l of free chlorine. After satisfactory testing of chlorination, the main shall be flushed. Disinfection testing and flushing shall be done by Contractor in presence of Engineer.
- 12. After final flushing and before the pipeline is placed in service, two samples shall be collected and shall be tested for bacteriological quality in accordance with the State Department of Health or other regulatory agency. Satisfactory results for both samples is required for successful completion of bacteriological testing. Contractor shall conduct all testing and provide testing results to Engineer.
- 13. Sample Taps must be included in the new line, no less than two (2) feet no more than ten (10) feet from where the new water line connects to the existing lines at each end.
- 14. A representative of the city water deptartment must be present for: i. Disinfecting
 - ii. Pressure Testing

 \checkmark

iii. Bacteria Testing (a minimum of three required at perscribed locations to be determined by the water dept.)







DATE: <u>DECEMBER 27, 2018</u>

PROJECT NO. _____18-329_ SHEET 1 OF 1 I-470 BUSINESS AND TECHNOLOGY CENTER, LEE'S SUMMIT, MO.

LEE'S SUMMIT, MISSOURI 64063

	LINE LEGEND		
PROPOSED		<u>EXISTING</u>	
 st	Storm Line		· st
 SAN	Sanitary Line	;	SAN
 WTR	Water Line		/TR
 25′BL	Building Line	BL	
	Easement Line		
	- 4' Sidewalk -		
	2 Curb =		
840	Contour	840-	
5+0	Tree Line		\searrow
 x	Fence Line		× —
 G	Gas Line		· G
-	Overhead Telephone Line	(онт ——
	Undergroung Telephone Line	u	JGT ——
	Overhead Electrical Line	[JHE
	Underg round Electrical Line		JGE



PROPOSED		<u>EXISTING</u>
MH ●	Manhole	мно
C.I.	Curb Inlet	C.I.
JB	Junction Box	JB□
FI	Field Inlet	FI
FES 🔺	Flared End Section	FESA
FH 👄 ¬	Fire Hydrant	081
B0 ●0	Blow Off	08
₩V●	Water Valve	8
WM O	Water Meter	©₩M
	Straddle	\Diamond
_	Utility Pole	ۍ ا
	Guy Wire	6
	Electric Transformer	IN THE NEW YORK
	Telephone Pedestal	
	Cable Pedestal	
°CO	Clean Out	°CO









GENERAL NOTES: ADJACENT LAND ACRES SHALL BE PROTECTED FROM EROSION AND SILTATION WITH HAY BALES OR FILTER FABRIC. SILT CONTAINMENT SHALL REMAIN IN PLACE UNTIL VEGETATION IS REESTABLISHED.
 OUTFALL LINES FROM THE ENCLOSED STORM DRAINAGE SYSTEMS SHALL BE PROVIDED WITH END SECTIONS AND THE DRAINAGE DITCHES RIPRAPPED TO DISSIPATE FLOW AND CONTROL EROSION.
 THE FOLLOWING MAY BE USED AS EROSION/SILTATION CONTROL AS INDICATED ON THE PLANS: DEBRIS/SILT BASINS, SILT FENCING, STAKED STRAW BALES, RETENTION STRUCTURES, DIVERSIONS, OTHER METHODS AS DETAILED ON THE PLANS. 4. ALL METHODS SHALL BE UTILIZED AND MAINTAINED UNTIL THE SURFACE HAS BEEN STABILIZED WITH VEGETATION OR MULCH. OR MULCH.
5. ALL STRAW BALES MUST BE EITHER WIRE BOUND OR STRING TIED. INSTALL BALES SO THAT BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. BALES SHALL BE OF STRAW ONLY.
6. GRADING AND SEDIMENT CONTROL SHALL BE AS SPECIFIED IN THE "MODEL GRADING AND SEDIMENT CONTROL ORDINANCE" DEVELOPED BY THE MID-AMERICA ASSOCIATION OF CONSERVATION DISTRICTS AND THE MID-AMERICA REGIONAL COUNCIL.
7. STRAW BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES.
8. STRAW BALES SHALL BE PLACED IN A ROW AS INDICATED ON THE ABOVE DRAMING.
9. STRAW BALES SHALL BE PLACED IN PLACE BY STAKES OR REBARS AS SHOWN IN THE DETAIL PROVIDED. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD A PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
10. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.
11. STRAW BALES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND SEEDING AND MULCHING OF GRADED ARES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF STRAW BALES OR OTHER FROSION OR SEDIMENT. AREAS. 12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF STRAW BALES OR OTHER EROSION OR SEDIMENT CONTROL DEVICES UNTIL UPSLOPE AREAS HAVE BEEN STABILIZED. 13. VEGETATION ESTABLISHMENT FOR URBAN DEVELOPMENT SITES: GRADED AND EXCAVATED AREA OF 4.0 ACRES TO BE SOWN AFTER CONSTRUCTION WITH ONE OF THE FOLLOWING: A TALL ESCUE 25 LBS (ACRE MISSOUR A. TALL FESCUE – 25 LBS./ACRE B. SMOOTH BROME – 35 LBS./ACRES C. COMBINED: FESCUE @ 20 LBS./ACRE AND BROME @ 15 LBS./ACRE D. OTHER SEEDING MIXTURES AS APPROVED BY THE SOIL CONSERVATION SERVICE. SEEDING PERIODS: FESCUE OR BROME - MARCH 1 TO JUNE 1 MULCH RATES: (REQUIRED FOR ALL PERMANENT SEEDING) 4,356 LBS./ACRE FERTILIZER: A. NITROGEN 90 LBS./ACRE B. PHOSPHATE 90 LBS./ACRE C. POTASSIUM 90 LBS./ACRE D. LIME 700 LBS./ACRE (EFFECTIVE NEUTRALIZING MATERIAL AS PER STATE EVALUATION OF QUARRIED ROCK.) E. OTHER RATES AS DEFINED BY A CURRENT SOIL TEST AND APPROVED BY THE SOIL CONSERVATION SERVICE. C PHASE 2 SHALL INCLUDE THE FOLLOWING: 1. INSTALL SILT FENCE 2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE PHASE 2 SHALL INCLUDE THE FOLLOWING: 1. REMOVE TOP SOIL, CURB, SIDEWALK, FENCE, AND TREES. 2. ROUGH GRADE CUT A ENGEERED FILL 3. INSTALL UTILITIES S 4. INSTALL FOOTING AND WALLS 5. INSTALL PARKING LOT, SIDEWALK AND MAIN ENTRANCES
 6. SEED AND SOD ALL DISTURBED AREAS S EE PHASE SHALL INCLUDE THE FOLLOWING: 1. FULLY VEGETATED SITE 2. REMOVE SILTATION FENCE t Eng uist LOT 8 C I-470 BUSINESS AND **TECHNOLOGY CENTER** COPYRIGHT (C) 2019 **1ST ISSUE** 6-20-19 REVISIONS 7-24-19 1. ALL ESC INSPECTIONS REPORTS SHALL BE MADE PER THE 8-7-19 CURRENT SWIPP REQUIREMENTS AND COPIES KEEPED ONSITE NONE THIS SHEET SHEET NO. **C**301 SITE ESC PHASE 1 AND 2 PLAN JOB NO. E18-337

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S	ewer Locat	tion	Draina	ge Area to In	ilet	Time of Flow						Rainfall Runo	off Flow			INS TABLE			Elevation					Sewer Chara	acteristics				Veloci	itv stats
Line	From	То	Designation	Area	Coef	TC	I100 Intensity	I25 Intensity	I10 Intensity	Inlet 100yr K*I*C*A	Inlet 25yr K*I*C*A	Inlet 10yr K*I*C*A	Additional Flow Lines	Additional cfs	In-pipe 100yr K*I*ΣC*A	In-pipe 25yr K*I*ΣC*A	In-pipe 10yr K*I*ΣC*A	Inlet	Top elevation	Coverage	Pipe Size (in)	FLin	Flout	segment length	slope	pipe area	Pipe Capacity (cfs)	100yr overflow	V 10ys	V 100 y
LINE 1	CI-1-6	CI-1-5	A-1, A-9	0.49	0.60	5.00	10.32	8.53	7.35	3.79	2.76	2.16			3.79	2.76	2.16	CI-1-6	982.00	1.20	12.00	979.80	978.70	107.54	1.02	0.79	3.60	YES	2.75	4.83
	CI-1-5	CI-1-4	A-2b, A-2a	0.37	0.60	5.00	10.32	8.53	7.35	2.86	2.08	1.63			6.66	4.84	3.79	CI-1-5	982.70	2.95	15.00	978.50	977.80	96.62	0.72	1.23	5.50	YES	3.09	5.43
	CI-1-4	CI-1-3	A-3b, A-3a	0.41	0.60	5.00	10.32	8.53	7.35	3.17	2.31	1.81			9.83	7.15	5.60	CI-1-4	982.60	3.60	18.00	977.50	976.60	72.09	1.25	1.77	11.73	NO	3.17	5.57
	CI-1-3	AI-1-2	A-4b, A-4a	0.34	0.60	5.00	10.32	8.53	7.35	2.63	1.91	1.50			12.46	9.06	7.10	CI-1-3	982.70	4.60	24.00	976.10	975.50	44.85	1.34	3.14	26.15	NO	2.26	3.97
	AI-1-2	CI-1-1	A-5	0.02	0.60	5.00	10.32	8.53	7.35	0.15	0.11	0.09			12.62	9.18	7.19	AI-1-2	982.40	5.20	24.00	975.20	974.50	105.32	0.66	3.14	18.43	NO	2.29	4.02
	CI-1-1	EX-FL	A-6	0.23	0.60	5.00	10.32	8.53	7.35	1.78	1.29	1.01			14.40	10.47	8.21	CI-1-1	979.40	3.10	24.00	974.30	974.00	13.32	2.25	3.14	33.93	NO	2.61	4.59
LINE 2	AI-2-6	AI-2-5	A-9b	0.04	0.60	10.00	8.59	7.05	6.08	0.26	0.19	0.15			0.26	0.19	0.15	AI-2-6	982.00	2.00	12.00	979.00	978.20	58.14	1.38	0.79	4.18	NO	0.19	0.33
	AI-2-5	AI-2-4	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			0.26	0.19	0.15	AI-2-5	982.33	3.33	12.00	978.00	977.70	17.45	1.72	0.79	4.67	NO	0.19	0.33
	AI-2-4	JB-2-3	A-10	0.13	0.60	5.00	10.32	8.53	7.35	1.01	0.73	0.57			1.26	0.92	0.72	AI-2-4	982.29	3.79	12.00	977.50	977.20	15.09	1.99	0.79	5.02	NO	0.92	1.61
	JB-2-3	CI-2-2	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			1.26	0.92	0.72	JB-2-3	983.20	5.20	12.00	977.00	973.20	125.08	3.04	0.79	6.21	NO	0.92	1.61
	CI-2-2	JB-2-1	A-11	0.25	0.60	5.00	10.32	8.53	7.35	1.94	1.41	1.10			3.20	2.33	1.82	CI-2-2	977.40	3.40	12.00	973.00	972.70	22.48	1.33	0.79	4.11	NO	2.32	4.08
	JB-2-1	EX-CI	N/A	0.00	0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00			3.20	2.33	1.82	JB-2-1	978.00	4.50	12.00	972.50	972.00	5.72	8.74	0.79	10.53	NO	2.32	4.08
																														<u> </u>
LINE 3	CI-3-2	JB-3-1	A-8	0.16	0.85	7.00	9.55	7.87	6.78	1.62	1.18	0.92			1.62	1.18	0.92	CI-3-1	974.30	2.30	12.00	971.00	968.00	24.60	12.20	0.79	12.44	NO	1.18	2.07
LINE 4	END	J-4-2	A-13a,	0.12	0.60	5.00	10.32	8.53	7.35	0.93	0.68	0.53			0.93	0.68	0.53	END	982.00	3.33	8.00	978.00	977.20	61.89	1.29	0.35	1.37	NO	1.52	2.66
	J-4-2	T-4-1	A-13b, A-13c	0.26	0.60	5.00	10.32	8.53	7.35	2.01	1.46	1.15			2.94	2.14	1.68	J-4-2	982.00	3.80	12.00	977.20	976.55	78.45	0.83	0.79	3.24	NO	2.14	3.75
	T-4-1	EX-FI	N/A		0.60	5.00	10.32	8.53	7.35	0.00	0.00	0.00	LINE 5 25yr	1.46	4.40	3.60	3.14	J-4-1	982.00	4.45	12.00	976.55	976.50	4.63	1.08	0.79	3.70	YES	4.00	5.61
LINIE 5	END	I 5 1	A 12a	0.19	0.60	5.00	10.22	0.52	7.25	1 20	1.01	0.70			1.20	1.01	0.70		082.00	2 22	8.00	078.00	077.20	50.22	1 10	0.25	1 21	VEC	2.28	2.00
LINE 3	END L51	J-3-1 I 4 1	A-120	0.18	0.60	5.00	10.32	8.33 9.52	7.55	1.39	1.01	0.79			2.41	1.01	0.79		982.00	2.33	8.00	978.00	977.50	39.23	1.10	0.55	1.51	IES NO	2.28	1 24
	J-3-1	J-4-1	A-12a, A-120	0.20	0.00	5.00	10.32	8.33	1.33	2.01	1.40	1.15) 3.41	2.48	1.94	J-3-1	982.00	3.70	12.00	9//.30	9/0.33	/0.04	0.99	0.79	3.34	I NU	2.4/	4.34

SITE STORM DRAINAGE PLAN AND CALCULATIONS

POST-DEVELOPMENT

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A	

OF PUBLIC IMPROVMENT QUANTITIES

SUMMARY OF QUANTITIES		UNITS
PUBLIC WATER MAIN		
FIRE HYDRANT ASSEMBELY	1	EACH
6" WATER MAIN	67	<i>L.F.</i>

OTES:

PUBLIC WATER MAIN DETAIL SHEET

ROPEBTA WHEELE HUMBER HOMBER B-2001018825 8/7/17 BOFESSION

MISSOUR COUNT C S ĹIJ lnc

COPALICATIONS BADONE: (816) 550-5675 Email: rwalquist@quist

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SHEET NO.