SUMMARY OF DRAINAGE STRUCTURES

STRUCTURE NUMBER	PLANS SHEET NUMBER	LOCATION	DESCRIPTION	DESIGN	ELEVATIONS: TOP OF CURB	ELEVATIONS: TOP OF COVER OR GRATE	ELEVATIONS: FLOW LINE OF INLET (OUT)	TRENCH EXCAVATION	STANDARD BEDDING MATERIAL CLASS B	CLASS "A" CONC: SMALL STRUCTURE	CLASS "A" CONC: LARGE STRUCTURE	REINFORCING STEEL	CAST IRON CURB INLETS: CI-1 DES.2	CI-1 DES.2(B)	CI-1 DES.2(D)	CI-1 DES.2(2B)	CI-1	ADD'L DEPTH INLETS DES.2	ADD'L DEPTH INLETS DES.2(B)	ADD'L DEPTH INLETS DES.2(D)	ADD'L DEPTH INLETS DES.2(2B)	ADD'L DEPTH INLETS	GRATED PIPE INLETS: TYPE 1 DES.1	TYPE 1 DES.3	ADD'L DEPTH DES.1	ADD'L DEPTH DES.3	TYPE 2 DES.8	ADD'L DEPTH DES.8	STRUCTURE NUMBER
								CY	CY	CY	CY	LB	EACH					VF					EACH		VF		EACH	VF	
J5	34	STA. 252+00, 6' LT ℄ LT FRONTAGE RD	CONST. 5'x5'x3.57' JCT BOX, STUB 98 LF 30"RCP, S=1.00% TO J6	MFC-4, MJB-3, SPI-4, SPB-1		721.99	717.42	53.69	26.65	2.11																			J5
J6	34	STA. 253+00, 13' LT ℄ LT FRONTAGE RD	CONST. INLET W/SMALL JCT. BOX, CI DES. 3(D), STUB 164 LF 30"RCP, S=2.11% TO J9	SHEET 47,SSIF-4,CIG-3,SPI-4,SPB-1	720.98	720.44	716.44	96.95	51.69																			J6
J7	34	STA. 55+00, 4.05' RT ℄ RAMP A	CONST. INLET CI DES. 2(D), STUB 51 LF 18"RCP, S=0.40% TO J8	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	717.92	717.55	714.00	15.36	10.11						1						0.88							J7
J8	34	STA. 254+70, 13' LT ℄ LT FRONTAGE RD	CONST. INLET CI DES. 2(D), STUB 8 LF 18"RCP, S=0.50% TO J9	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	718.44	717.90	713.80	4.38	3.52						1						1.43							J8
J9	34	STA. 254+70, 23' LT ℄ LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2A), STUB 108 LF 30"RCP, S=3.50% TO J12	SMD-3, SPI-4, SPB-1		718.04	712.16	118.99	89.19																			J9
J10	34	STA. 255+80, 13' RT ℄ LT FRONTAGE RD	CONST. INLET CI DES. 2(B), STUB 24 LF 18"RCP, S=0.50% TO J11	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	714.48	713.94	710.42	7.09	4.52					1					0.85									J10
J11	34	STA. 255+80, 13' LT ℄ LT FRONTAGE RD	CONST. INLET CI DES. 2(B), STUB 8 LF 18"RCP, S=0.50% TO J12	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	714.48	713.94	710.30	4.15	3.29					1					0.97									J11
J12	34	STA. 255+80, 23' LT ℄ LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2A), STUB 144 LF 30"RCP, S=3.50% TO J13	SMD-3, SPI-4, SPB-1		714.08	705.94	165.49	125.75																			J12
J13	34	STA. 257+30, 23' LT ℄ LT FRONTAGE RD	CONST. 5'x5'x6.84' JCT BOX, STUB 73 LF 30"RCP, S=3.50% TO OPEN DITCH [PCES-4]	MFC-4, MJB-3, SPI-4, SPB-1		704.90	697.06	72.75	52.61	2.11																			J13
J14	34	STA. 3255+00, 65' LT CRL US 69	CONST. INLET CI DES. 2, STUB 5 LF 18"RCP, S=5.00% TO J7	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	718.45	718.08	714.25	3.19	1.24				1					1.16										J14
K1	34	STA. 3255+18, 57' RT CRL US 69	CONST. INLET CI DES. 2(D), STUB 40 LF 18"RCP, S=3.00% TO K3	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	714.99	714.62	708.06	16.90	12.60						1						3.89							K1
K2	34	STA. 54+80, 19' RT ℄ RAMP B	CONST. INLET CI DES. 2(D), STUB 32 LF 18"RCP, S=2.50% TO K3	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	714.99	711.83	707.66	17.70	8.77						1						1.50							K2
K3	34	STA. 3255+18, 98' RT CRL US 69	CONST. 4'x4'x5.08' JCT BOX, STUB 78 LF 18"RCP, S=3.50% TO K5	MFC-4, MJB-3, SPI-4, SPB-1		711.44	706.36	35.90	21.37	1.39																			K3
K4	34	STA. 3256+00, CRL US 69	CONST. INLET GPI TYPE 2 (DES. 8), STUB 95 LF 18"RCP, S=4.00% TO K5	GPI-4,SPI-4,SPB-1		713.28	707.89	113.60	103.31																1		2.66		K4
K5	34	STA. 3256+00, 98' RT CRL US 69	CONST. 4'x4'x8.00' JCT BOX, STUB 222 LF 24"RCP, S=3.16% TO K6	MFC-4, MJB-3, SPI-4, SPB-1		709.50	699.50	324.80	117.22	1.39																			K5
K6	34	STA. 3258+22, 139' RT CRL US 69	CONST. INLET (SMD-TYPE 2A), STUB 219 LF 30"RCP, S=0.68% TO N3	SMD-3, SPI-4, SPB-1		698.97	691.98	362.10	139.50																			K6
L1	34	STA. 258+20, 13' LT ℄ LT FRONTAGE RD	CONST. INLET CI DES. 2(B), STUB 24 LF 18"RCP, S=0.96% TO L2	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	699.84	699.30	695.38	8.43	5.86					1				1.25										L1
L2	34	STA. 258+20, 13' RT ℄ LT FRONTAGE RD	CONST. INLET CI DES. 2, STUB 20 LF 18"RCP, S=3.25% TO OPEN DITCH [PCES-4]	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	699.84	699.30	695.15	11.40	9.26				1					1.48										L2
M3	34	STA. 54+43, ℄ RAMP B	CONST. INLET CI DES. 2(D), STUB 56 LF 18"RCP, S=0.91% TO M4	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	712.60	712.06	707.62	26.89	20.89						1						1.77							M3
M4	34	STA. 254+60, 20' RT ℄ RT FRONTAGE RD	CONST. 4'x4'x4.78' JCT BOX, STUB 193 LF 18"RCP, S=3.81% TO M6	MFC-4, MJB-3, SPI-4, SPB-1		712.89	707.11	130.41	109.71	1.39																			M4
M5	34	STA. 256+60, 13' LT ℄ RT FRONTAGE RD	CONST. INLET CI DES. 2(D), STUB 24 LF 18"RCP, S=0.96% TO M6	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	704.67	704.33	699.98	9.69	7.12						1						1.70							M5
M6	34	STA. 256+60, 13' RT ℄ RT FRONTAGE RD	CONST. INLET W/SMALL JCT. BOX, CI DES. 2(B), STUB 207 LF 18"RCP, S=3.14% TO M8	SHEET 48,SSIF-4,CIG-3,SPI-4,SPB-1	704.87	704.33	699.75	131.12	108.92																			M6
M7	34	STA. 258+80, 13' LT ℄ RT FRONTAGE RD	CONST. INLET CI DES. 2, STUB 24 LF 18"RCP, S=0.96% TO M8	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	697.51	698.97	693.47	8.68	6.11				1					0.80										M7
M8	34	STA. 258+80, 13' RT ℄ RT FRONTAGE RD	CONST. INLET W/SMALL JCT. BOX, CI DES. 2, STUB 181 LF 18"RCP, S=1.30% TO N3	SHEET 48,SSIF-4,CIG-3,SPI-4,SPB-1	697.51	698.97	693.24	105.08	85.67																			M8
N1	34	STA. 258+03.60, 25' RT ℄ LT FRTAGE RD	EXTEND EXISTING 8'X3' RCB CD	RCB-C1-8(2-14),RCB1H-1,SPI-4		693.86	693.82					1,301																N1
N2	34	STA. 3258+34.36, 135' LT CRL US 69	EXTEND EXISTING 8'X3' RCB CD	RCB-C1-8(2-14),RCB1H-1,SPI-4		692.72	692.55					3,627																N2
N3	34	STA. 3260+34.37, 209.5' RT CRL US 69	EXTEND EXISTING 10'X3' RCB CD	RCB-C1-10(2-14),SHT 50,SPI-4		690.75	690.50					12,930																N3
O1	34	STA. 200+00, 20' RT CRL WADE WATTS	CONST. INLET CI DES. 2(2B), STUB 37 LF 18"RCP, S=1.32% TO O2	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	696.76	696.22	693.18	22.26	17.01						1						0.37							O1
O2	34	STA. 200+00, 20' LT CRL WADE WATTS	CONST. INLET CI DES. 2(D), STUB 60 LF 18"RCP, S=1.15% TO EXISTING 8'X3' RCB	CI-1,SSIF-4,CIG-3,SPI-4,SPB-1	696.76	696.22	692.69	20.85	14.42						1						0.86							O2
P1	34	STA. 3264+94.09, 157.50' RT CRL US 69	CONST. SPECIAL INLET, STUB 438 LF 18" RCP, S=0.68% TO P2	SHEET 51, SPI-4, SPB-1		702.13	694.38	320.63	273.66			4,220																P1
P2	34	STA. 3260+50, 157.50' RT CRL US 69	CONST. INLET GPI TYPE 2 (DES. 12), STUB 54 LF 24"RCP, S=0.70% TO N3	GPI-4,SPI-4,SPB-1		694.69	690.88	25.07	19.28																1		0.54		P2
T1	34	STA. 3251+27, 89' LT CRL US 69	STUB 10 LF 18" CGSP, S=2.7% TO H2	SPI-4, SPB-1, FHTCP-3				15.00	13.00																			T1
O1	31	STA. 3208+08, 75' RT CRL US 69	EXTEND EXISTING 18" RCP 34 LF, S=2.47%	SPI-4, SPB-1, PCES-4																								O1
O2	31	STA. 3211+60, 6' RT CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 100 LF 18"RCP, S=0.76% TO EXIST INLET	GPI-4,SPI-4,SPB-1		706.50	703.87	25.00	27.4																1	–			O2
TOTAL THIS SHEET								2,274	1,489	8.39		22,078	3	3	7	1		4.69	1.82	12.03	0.37		1		2		3.20		
TOTAL SHEET 22								3,498	2,109	17.61		1,750											5	1	0.66				
TOTAL								5,772	3,598	26.00		23,828	3	3	7	1		4.69	1.82	12.03	0.37		6	1	0.66	2	3.20		

TOTAL CI DES.2 = 18.91

* PROVIDED FOR INFORMATION ONLY. INCLUDE IN PRICE BID FOR INLET OR JUNCTION BOX.

SUMMARY OF DRAINAGE STRUCTURES, CONTINUED

STRUCTURE NUMBER	C.I. CURB INLETS W/JUNCTION BOX: SMALL DES.2	SMALL DES.2(B)	SMALL DES.3(D)	ADD'L DEPTH DES.2	ADD'L DEPTH DES.2(B)	ADD'L DEPTH DES.3(D)	INLET LONGITUDINAL BARRIER TYPE 1 DES. 2	ADD'L DEPTH * TYPE 1 DES. 2	CLASS 'AA' CONCRETE	UNCLASSIFIED EXCAVATION	STRUCTURAL EXCAVATION UNCLASSIFIED	M.H. FRAME AND COVER *	INLET FRAME AND GRATE *	CAST IRON CURB INLET *	SMD INLET TYPE 2	SMD INLET TYPE 2A	SMD INLET TYPE 2B	SMD ADD'L DEPTH * TYPE 2	SMD ADD'L DEPTH * TYPE 2A	SMD ADD'L DEPTH * TYPE 2B	JUNCTION BOXES	REPLACEMENT OF INLET GRATE CDI RCB	PIPE QUANTITIES: REINFORCED CONCRETE PIPE – ROUND 18"	24"	30"	36"	CORR. GALV. STEEL PIPE – ROUND 18"	PREFAB. CULVERT END SECTION (ROUND) 18"	30"	43" X 26" R.C.PIPE ARCH CLASS A-III	SEE SPECIAL NOTES THIS SHEET	STRUCTURE NUMBER
	EACH			VF			EACH	* VF	CY	CY	CY	EA	EA	EA	EA	EA	EA	VF	VF	VF	CF	EA	LF				LF	EA		LF		
J5												1									42.23				98						2	J5
J6			1			1.33						1	4	8											164						1	J6
J7													2	6									51							3	J7
J8													2	6									8							1	J8
J9																1			2.24					108							J9
J10													2	4									24							1	J10
J11													2	4									8							1	J11
J12																1			4.49					144							J12
J13												1									90.52				73				1		2	J13
J14													2	2									5							3	J14
K1													2	6									40							3	K1
K2													2	6									32							1	K2
K3												1									49.37		78								K3
K4																							95								K4
K5												1									97.99			222						6	K5
K6																1			1.34					219							K6
L1													2	4									24							1	L1
L2													2	2									20					1		1	L2
M3													2	6									56							1	M3
M4												1									53.64		193							2	M4
M5													2	6									24							1	M5
M6		1			1.93							1	2	4									207							1	M6
M7													2	2									24							1	M7
M8	1			1.03								1	2	2									181							1	M8
N1									11.02		5.19																				N1
N2									27.98		12.16																				N2
N3									73.82	288.53	30.01																				N3
O1													2	6									37							1	O1
O2													2	6									60							1	O2
P1									29.87	250.60	10.50											7	438								P1
P2																								54							P2
T1																											10				T1
O1																							34					1			O1
O2																							100								D10
TOTAL THIS SHEET	1	1	1	1.03	1.93	1.33			142.69	539.13	57.86	8	36	80		3			8.07		333.75	7	1,739	276	806		10		2	1		
TOTAL SHEET 22							12	31.00	2.58	8.80	1.00	7			3	2	6	0.82	0.93	7.55	363.61		2,361	872	295	688					24	
TOTAL	1	1	1	1.03	1.93	1.33	12	31.00	145.27	547.93	58.86	15	36	80	3	5	6	0.82	9.00	7.55	697.36	7	4,100	1,148	1,101	688	10		2	1	24	

* PROVIDED FOR INFORMATION ONLY. INCLUDE IN PRICE BID FOR INLET OR JUNCTION BOX.

GENERAL NOTES:

1. Top Elevation Given for G.P.I. Structure is FL Inlet, as shown on ODOT Std. GPI-4
2. Pipe Lengths are Computed from Inside Wall of Inlet to Inside Wall of Inlet. Where PCES is used, Pipe Length is Computed Deducting Length "C" as shown on ODOT Std. PCES-4.
3. Trench Excavation and Standard Bedding Material Quantities are based on Computed Lengths of Pipe, Including Length "C" as shown on ODOT Std. PCES-4 where applicable.

SPECIAL NOTES:

1. 6" Barrier Curb Inlet
2. Height Shown Represents "H" as Shown On MJB-3 and Does Not Include 1'-0" Riser.
3. 4" Mountable Curb Inlet
4. Structure must be Cast in Place
5. Price Bid for this Structure Shall Not Include Cost of Concrete Apron as shown on ODOT Std. SMD-3.
6. Height Shown Represents "H" as Shown On MJB-3 and Does Not Include 2'-0" Riser.

ROBIN D. SEWELL 16173 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA

7/18/16

Design	CKS	
Drawn	CKD	
Checked	CKE	
Approved		
Squad	C & K	

U.S. 69 – COMANCHE AVENUE — PITTSBURG COUNTY

SUMMARY SHEET (ROADWAY)

JOB PIECE NO. 14999(04) — SHEET NO. 22

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