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(O)	CI-1 DES.2(2B)	CI-1 DES.3(O)	ADD'L DEPTH INLETS DES.2	ADD'L DEPTH DES.2(B)	ADD'L DEPTH DES.2(O)	ADD'L DEPTH DES.2(2B)	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	
A1	32	STA. 3232+52, 65' LT CRL US 69	CONST. INLET (SMD-TYPE 2), STUB 6 LF 18"RCP, S=7.33% TO D1	SMD-3, SPI-4, SPB-1		727.90	725.34	2.80	1.64																			A1
D1	32	STA. 3232+52, 57' LT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 261 LF 18"RCP, S=1.57% TO C1	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		728.74	724.90	99.60	71.51																			D1
C1	32	STA. 3229+85.50, 57' LT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 54 LF 36"RCP, S=0.83% TO C2	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		725.18	719.30	82.30	61.10																			C1
C2	32	STA. 3229+85.50, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 3), STUB 66 LF 36"RCP, S=0.91% TO C3	GPI-4,SPI-4,SPB-1		723.32	718.85	107.60	81.76														1		0.66				C2
C3	32	STA. 3229+85.50, 69' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 15 LF 36"RCP, S=5.00% TO F9	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		724.94	718.25	17.10	11.26																			C3
D2	32	STA. 3232+52, 69' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 15 LF 18"RCP, S=4.40% TO F6	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		728.50	721.40	7.90	4.11																			D2
F6	32	STA. 233+10, 6' LT & RT FRONTAGE RD	CONST. 4'x4'x3.13' JCT BOX, STUB 263 LF 18"RCP, S=0.66% TO F9	MFC-4, MJB-3, SPI-4, SPB-1		724.87	720.74	111.20	72.06	1.39																		F6
F9	32	STA. 230+43.68, 6' LT & RT FRONTAGE RD	CONST. 4'x4'x3.97' JCT BOX, STUB 182 LF 36"RCP, S=1.08% TO F14	MFC-4, MJB-3, SPI-4, SPB-1		722.47	717.50	241.70	170.35	1.39																		F9
A2	32	STA. 3228+00, 69' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 15 LF 18"RCP, S=3.53% TO F14	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		722.79	717.57	6.20	4.11																			A2
F14	32	STA. 3228+00, 86' RT CRL US 69	CONST. INLET (SMD-TYPE 2B), STUB 235 LF 36"RCP, S=1.09% TO F16	SMD-3, SPI-4, SPB-1		719.73	715.54	268.50	176.48																			F14
Q3	32	STA. 226+20, 37' LT & RT FRONTAGE RD	CONST. INLET (SMD-TYPE 2B), STUB 16 LF 18"RCP, S=2.00% TO F16	SMD-3, SPI-4, SPB-1		717.16	713.29	8.00	5.03																			Q3
F16	32	STA. 226+20, 19' LT & RT FRONTAGE RD	CONST. 5'x5'x4.83' JCT BOX, STUB 24 LF 43"x26" RCPA, S=1.23% TO EXISTING 4'x3' RCB	MFC-4, MJB-3, SPI-4, SPB-1		719.80	712.97	25.10	16.52	2.11																		F16
D3	33	STA. 3235+00, 57' LT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 388 LF 18"RCP, S=0.40% TO D4	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		732.02	728.47	359.50	152.87																			D3
D4	33	STA. 3238+91, 72' LT CRL US 69	CONST. 4'x4'x7.18' JCT BOX, OVER EXISTING 36" RCP CD	MFC-4, MJB-3, SPI-4, SPB-1		734.60	725.42			1.39																		D4
D5	33	STA. 3235+00, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 64 LF 18"RCP, S=2.00% TO D6	GPI-4,SPI-4,SPB-1		730.16	727.43	33.20	26.33														1		–				D5
D6	33	STA. 3235+00, 67' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 388 LF 18"RCP, S=0.55% TO D9	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		731.82	726.15	419.50	228.14																			D6
D7	33	STA. 3242+00, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 54 LF 18"RCP, S=1.00% TO D8	GPI-4,SPI-4,SPB-1		729.63	726.90	23.00	14.80														1		–				D7
D8	33	STA. 3242+00, 57' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1, DES 2,STUB 304 LF 18"RCP, S=0.78% TO D9	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		730.24	726.36	328.60	178.75																			D8
D9	33	STA. 3238+92, 70' RT CRL US 69	CONST. 4'x4'x6.25' JCT BOX, OVER EXISTING 36" RCP CD	MFC-4, MJB-3, SPI-4, SPB-1		730.75	722.50			1.39																		D9
D10	33	STA. 3244+50, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 54 LF 18"RCP, S=3.00% TO D11	GPI-4,SPI-4,SPB-1		728.26	725.53	24.50	18.73														1		–				D10
D11	33	STA. 3244+50, 57' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1,DES 2,STUB 196 LF 18"RCP, S=1.23% TO D13	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		728.27	723.91	80.05	59.46																			D11
D12	33	STA. 3246+55, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 54 LF 18"RCP, S=4.18% TO D13	GPI-4,SPI-4,SPB-1		726.49	723.76	27.20	21.39														1		–				D12
D13	33	STA. 3246+55, 57' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1,DES 2,STUB 15 LF 18"RCP, S=1.23% TO E7	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		726.50	721.50	6.50	4.90																			D13
E7	33	STA. 246+98, 18' LT & RT FRONTAGE RD	CONST. 4'x4'x7.77' JCT BOX, STUB 56 LF 24"RCP, S=1.02% TO E8	MFC-4, MJB-3, SPI-4, SPB-1		724.84	716.07	79.90	48.96	1.39																		E7
G3	33	STA. 238+65, 26.5' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2), STUB 302 LF 24"RCP, S=0.55% TO G5	SMD-3, SPI-4, SPB-1		732.35	729.21	179.90	116.57																			G3
G5	33	STA. 241+70, 23.5' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2), STUB 151 LF 24"RCP, S=0.55% TO G8	SMD-3, SPI-4, SPB-1		731.48	727.55	105.80	58.29																			G5
G8	33	STA. 243+25, 23' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2A), STUB 242 LF 30"RCP, S=0.73% TO G12	SMD-3, SPI-4, SPB-1		730.80	726.22	201.10	114.71																			G8
G12	33	STA. 245+72, 23' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2B), STUB 48 LF 36"RCP, S=2.50% TO G14	SMD-3, SPI-4, SPB-1		731.13	723.95	74.00	44.93																			G12
G14	33	STA. 246+24, 23' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2B), STUB 88 LF 36"RCP, S=2.50% TO G16	SMD-3, SPI-4, SPB-1		728.40	722.75	166.20	82.37																			G14
G16	33	STA. 247+15.5, 23' RT & LT FRONTAGE RD	CONST. INLET (SMD-TYPE 2B), CONNECT WITH 6 LF 4'x3' RCB TO EXISTING CD S=2.36%	SMD-3,SBI-4,RCB-C1-3&4&5(2-20)		727.34	720.55					350																G16
H1	33,34	STA. 247+15, 6' RT & LT FRONTAGE RD	CONST. SPL. 6'x6'x5.75' JCT BOX OVER EX. 4'x3' RCB CD STUB 363 LF 24" RCP TO H2	SHEET 48, MFC-4, SPI-4, SPB-1		727.75	721.00	249.50	140.12	8.55		1,400																H1
H2	34	STA. 3251+23, 79' LT CRL US 69	CONST. INLET (SMD-TYPE 2A), STUB 26 LF 30"RCP, S=4.23% TO EXISTING 30" CD	SMD-3, SPI-4, SPB-1		721.38	717.70	19.50	12.32																			H2
D14	34	STA. 3249+00, CRL US 69	CONST. INLET GPI TYPE 1 (DES. 1), STUB 54 LF 18"RCP, S=3.39% TO D15	GPI-4,SPI-4,SPB-1		723.48	720.75	27.50	21.71														1		–				D14
D15	33,34	STA. 3249+00, 57' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1,DES 2,STUB 214 LF 18"RCP, S=1.65% TO H3	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		723.49	718.92	94.50	71.45																			D15
H3	34	STA. 3251+23, 57' RT CRL US 69	CONST. INLET-LONGITUDINAL BARRIER-TYPE 1,DES 2,STUB 27 LF 30"RCP, S=1.93% TO H4	SHEET 49,SSIF-4,CIG-3,SPI-4,SPB-1		719.90	712.62	20.20	15.77																			H3
H4	34	STA. 3251+23, 57' RT CRL US 69	CONST. INLET (SMD-TYPE 2B) OVER EXISTING 36" CD	SMD-3, SPI-4, SPB-1		716.29	711.60																					H4
				TOTAL THIS SHEET				3,498	2,109	17.61		1,750											5	1	10.66				

* 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(O)	ADD'L DEPTH DES.2	ADD'L DEPTH DES.2(B)	ADD'L DEPTH DES.3(O)	INLET LONGITUDINAL BARRIER: TYPE 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 *	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: SMD TYPE 2A	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	EA	LF				LF		EA		LF		
A1															1									6								5	A1
D1							1	1.17																261									D1
C1							1	3.21																			54						C1
C2																											66						C2
C3							1	4.02																			15						C3
D2							1	4.43																15									D2
F6												1									35.55			263								2	F6
F9												1									32.11						182					2	F9
A2							1	2.55																15									A2
F14																	1										235					5	F14
Q3																	1							16								5	Q3
F16												1									61.27										24	6	F16
D3							1	0.88																388									D3
D4												1									78.96											4,6	D4
D5																								64									D5
D6							1	3.00																388									D6
D7																								54									D7
D8							1	1.21																304									D8
D9												1									65.41											4,6	D9
D10																								54									D10
D11							1	1.69																196									D11
D12																								54									D12
D13							1	2.33																15									D13
E7												1									90.31				56							2	E7
G3															1										302							5	G3
G5															1			0.82							151							5	G5
G8																1			0.93							242						5	G8
G12																	1			2.99							48					5	G12
G14																	1			1.46							88					5	G14
G16									2.58	8.80	1.00						1			2.60												4,5	G16
H1												1													363							2,4	H1
H2																1										26						5	H2
D14																								54									D14
D15							1	1.90																214									D15
H3							1	4.61																		27							H3
H4																	1			0.50												4,5	H4
TOTAL THIS SHEET							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		

* 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.

REGISTERED PROFESSIONAL ENGINEER ROBIN D. SEWELL 16473 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. 14989(04) — SHEET NO. 21

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