STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0684-01	2019	5	109

SUMMARY OF QUANTITIES (FOR INFORMATION ONLY)

ITEM DESCRIPTION	UNITS	FIBER ROUTE A	FIBER ROUTE A Alt. #6 48 SMFO & Cond.	FIBER ROUTE B	FIBER ROUTE C	FIBER ROUTE D	FIBER ROUTE E	FIBER ROUTE F	TOTAL QUANTITY
2" HDPE Conduit - Trenched (Green, Communications)	L.F.	10,313	32	940	40	5,568	-	-	16,893
2" HDPE Conduit - Trenched (Orange, Communications)	L.F.	9,370		1,191	125	5,507	-	73	16,266
2" HDPE Conduit - Trenched (Black, Spare)	L.F.	8,108		905	40	5,475	-	-	14,528
2" HDPE Conduit - Trenched (Gray, Spare)	L.F.	6,805		-	80	5,475	-	-	12,360
2" HDPE Conduit - Bored (Green, Communications)	L.F.	2,490	520	440	2,150	2,737	-	-	8,337
2" HDPE Conduit - Bored (Orange, Communications)	L.F.	3,770		327	2,150	2,737	-	321	9,305
2" HDPE Conduit - Bored (Black, Spare)	L.F.	2,060		440	2,150	2,737	-	-	7,387
2" HDPE Conduit - Bored (Gray, Spare)	L.F.	1,200		-	3,030	2,737	-	-	6,967
3" HDPE Conduit - Trenched (Orange, Communications)	L.F.	45							45
3" HDPE Conduit - Trenched (Red, Power)	L.F.	500							500
Fabric Innerduct	L.F.	1,200							1,200
† Conduit Repair per Section	Section	10		1	1	1	1	1	15
3-1/C #0 AWG Power Conductor	L.F.	720							720
Pull Box	Each	15		3	2	19	-	-	39
Surge Protection Device	Each	2		-	-	-	-	-	2
FO Splice	Each	76		12	4	16	4	4	460
FO Splice Closure, Large	Each	4		-	-	1	1	-	26
FO Splice Closure, Small	Each								22
FO Splice Vault	Each	17		4	6	11	-	1	39
FO Splice Tray	Each	4		-	-	1	1	-	54
12 Ct. SMFO Pigtail Cable with LC Connectors	Each	2		1	-	1	-	-	4
12 Ct. SMFO Branch Fiber Cable	L.F.	4,940		3,422	-	610	2,385	3,830	15,187
48 Ct. SMFO Trunk Fiber Cable	L.F.		2,675						2,675
96 Ct. SMFO Trunk Fiber Cable	L.F.	20,050		3,222	9,500	-			32,772
144 Ct. SMFO Trunk Fiber Cable	L.F.	14,790				25,395			40,185
144 Ct. (Armoured) SMFO Trunk Fiber Cable	L.F.	18,400							18,400
288 Ct. SMFO Trunk Fiber Cable	L.F.	4,650							4,650
Category 6 Ethernet Cable (for Communication)	L.F.			1,800					1,800
Small Form Pluggable (SFP) Fiber Modules	Each	4		2		2			104
Pad Mounted 342 LX Cabinet and Foundation (Double Cabinet) (Signal)	Each								4
△ Pad Mounted 342 LX Cabinet and Foundation (Double Cabinet) (HUB)	Each	2							2
Steel Bollard (6")	Each	8							24
Signal Controller (2070C/LX ATC)	Each								44
GPS Unit for Clock Synchronization	Each								44
Category 6 UTP Patch Cables 1.8 meter	Each								44
✳ Fiber Optic Patch Cords LC-LC Connector (Duplex), 2 meter	Each	144		12	12	2	-	-	266
Preterminated Fiber LC Connectors (with 12 Ct. SMFO Pigtail)	Each								44
Fiber Optic Patch Panel 12 Position LC Connector	Each	4		2	-	1	-	-	7
Fiber Optic Patch Panel 96 Position LC Connector	Each	4		1	2	-	-	-	7
Fiber Optic Patch Panel 144 Position LC Connector	Each	8		-	-	-	-	-	8
Fiber Optic Patch Panel 288 Position LC Connector	Each	2		-	-	-	-	-	2
△ Building Connection	Each	3							3
Tier 2 Signal Cabinet Connection	Each	1		-	-	3	-	1	5
Tier 3 Signal Cabinet Connection	Each	19		1	-	1	5	1	27
Concrete Sidewalk Removed & Replaced	S.F.	3,000		500	500	500	500	500	5,500
Concrete Pavement Removed & Replaced	S.F.	3,500		500	100	500	500	500	5,600
Concrete C & G Removed & Replaced	L.F.	200		100	25	100	25	25	475
AC Pavement Removed & Replaced	S.F.	500		100	250	250	-	100	1,200
Brick Pavers Removed & Reset	S.F.	400		500	-	100	-	-	1,000
Traffic Signal Cabinet Remove & Replace	Each								8

TRAFFIC SIGNAL SITE — ROUTE A

ITEM DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FO Splice	8	8	8	8	8	8	8	8	8	8	8	4	8	4	8	8	8	8	8	8		8	8	8
FO Splice Closure, Large													1		1	1	1	1	1	1		1	1	1
FO Splice Closure, Small	1	1	1	1	1	1	1	1	1	1	1													
FO Splice Tray	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1
Small Form Pluggable (SFP) Fiber Modules	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2
Signal Controller (2070C/LX ATC)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1
GPS Unit for Clock Synchronization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1
Category 6 UTP Patch Cables 1.8 meter	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1
✳ Fiber Optic Patch Cords LC-LC Connector (Duplex), 2 meter	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2
Preterminated Fiber LC Connectors (with 12 Ct. SMFO Pigtail)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1

TRAFFIC SIGNAL SITE — ROUTES B to F (other items have no entries at sites 1–49)

ITEM DESCRIPTION	ROUTE B									RTE C		ROUTE D						ROUTE E					ROUTE F		
	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
FO Splice	8	8		8		8		8		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
FO Splice Closure, Large		1		1		1		1		1	1	1			1	1	1								
FO Splice Closure, Small	1												1	1				1	1	1	1	1	1	1	1
FO Splice Tray	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Small Form Pluggable (SFP) Fiber Modules	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Pad Mounted 342 LX Cabinet and Foundation (Double Cabinet) (Signal)		1		1		1		1																	
Steel Bollard (6")		4		4		4		4																	
Signal Controller (2070C/LX ATC)	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1
GPS Unit for Clock Synchronization	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Category 6 UTP Patch Cables 1.8 meter	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1
✳ Fiber Optic Patch Cords LC-LC Connector (Duplex), 2 meter	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Preterminated Fiber LC Connectors (with 12 Ct. SMFO Pigtail)	1	1		1		1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Traffic Signal Cabinet Remove & Replace		1	1	1	1	1	1	1	1																

† CONDUIT REPAIR PER SECTION. SEE GENERAL NOTE 30 AND ITS EQUIPMENT SPECIFICATION 5.3.2.

✳ ASSUMED DUPLEX COUNT (SIMPLEX IS DOUBLED)

△ ALL FIBERS SHALL BE TERMINATED INTO FIBER DISTRIBUTION UNIT (FDU) UNLESS SHOWN OTHERWISE ON PLANS. FIBER SPLICING AND TERMINATION AT BUILDINGS AND HUBS IS NOT SPECIFICALLY QUANTIFIED AND SHALL BE SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT.

FOR ADDITIONAL (INFORMATION ONLY) TRAFFIC SIGNAL QUANTITIES ON ROUTE B, SEE SHEET 65

FIBER OPTIC MARKERS ARE NOT PAID FOR DIRECTLY BUT ARE SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT. LOCATIONS OF MARKERS SHALL BE DETERMINED IN THE FIELD AND AGREED UPON WITH THE ENGINEER. FOR DETAILS, SEE SHEET 82

DATE	BY	REFERENCES NOTED	REFERENCES CHECKED

Drawn By : Road Plotted : 7/23/2019
File : c:\transystems\pw_local\transyscorp-pw1\ccbanka\d0643930\C-QTY-M01-101.dgn

KANSAS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
SHEET 1 OF 2