

APPENDIX - A

North Slope Borough School District Telecommunications System Plan

Line Item #	Site Number & Name	Description	Explanation of how item will be used in DLT project	DLT Use
4	2-Alak School	EB-PU1008B Business Projector, 8,500 Lumens, WUXGA, Black	Projector for showing content and people	100%
5	2-Alak School	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	Lens for the projector	100%
6	2-Alak School	NOTE: Projector Mount	Mount to install the projector	
7	2-Alak School	RPA Elite Universal Projector Mount with Keyed Locking	Locking system for the projector	100%
8	2-Alak School	3-5' Adjustable Extension Column, Pole	Pole to mount the projector from the ceiling	100%
9	2-Alak School	Threaded Pipe Coupler	Parts for mounting the projector	100%
10	2-Alak School	48 Inch Fixed Extension Column, Pole	Parts for mounting the projector	100%
11	2-Alak School	Angled Ceiling Plate	Parts for mounting the projector	100%
12	2-Alak School	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	Parts for mounting the projector	100%
13	2-Alak School	NOTE: Control and Video Transport	NOTE and not a cost item	
14	2-Alak School	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	Device to manage images and content and how they are viewed during the connection	100%
15	2-Alak School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
16	2-Alak School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
17	2-Alak School	DB9 Female to Bare Wire, 6'	Cables needed for connecting components	100%
18	2-Alak School	NOTE: Central Matrix and Controller (In Rack)	NOTE and not a cost item	
19	2-Alak School	3-Series 4K DigitalMedia Presentation System 350	Provides a complete 4K AV presentation control and signal routing solution for classrooms.	100%
20	2-Alak School	High-Efficiency Power Pack	Power supply pack for the presentation system above	100%
21	2-Alak School	NOTE: Stage Transmitters (Behind Stage)	NOTE and not a cost item	

22	2-Alak School	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	This device functions as a DM 8G+ transmitter and switcher with HDMI, VGA, and analog audio inputs	100%
23	2-Alak School	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
24	2-Alak School	NOTE: Control Room HDMI , LAN, Control, MIC Plate (In Control Room)	NOTE and not a cost item	
25	2-Alak School	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	Wall plate for connecting components	100%
26	2-Alak School	One XLR 3-pin Female to Solder Cup - Neutrik	Component needed for audio connections	100%
27	2-Alak School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
28	2-Alak School	Set-up Engraving	Used to label components	100%
29	2-Alak School	Engraving	Labeling of components	100%
30	2-Alak School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
31	2-Alak School	Set-up Engraving	Used to label components	100%
32	2-Alak School	Engraving	Labeling of components	100%
33	2-Alak School	NOTE: Wireless Presentation Gateway (Behind Stage)	NOTE and not a cost item	
34	2-Alak School	Clickshare C-10, C-10 base, 1 Gen4 Button	Wireless presentation system	100%
35	2-Alak School	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	Wall plate for connecting components	100%
36	2-Alak School	QuickPort Decora Insert, 1-Port, Black	Cover for electrical switch	100%
37	2-Alak School	Wall Plate Decora 2 Gang, Black	Wall plate for connecting components	100%
38	2-Alak School	KJC61LBLK, Comprehensive, Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	Device to couple cables	100%
39	2-Alak School	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
40	2-Alak School	1' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
41	2-Alak School	NOTE: Roku Streaming Player (Within Rack)	NOTE and not a cost item	
42	2-Alak School	Roku Ultra, Roku, Streaming Player	Used to bring content into the classroom	100%
43	2-Alak School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%

44	2-Alak School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
45	2-Alak School	OFE, Intel, Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4- Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	Computer for instructor	100%
46	2-Alak School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
47	2-Alak School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
48	2-Alak School	SuperJoy Joystick Controller	Controller for various software applications	100%
49	2-Alak School	PT30X4KWHG3, PTZ Optics, PT30X-NDI -- 30X Move 4K (White)	Camera for capturing instructor or students	100%
50	2-Alak School	HCM-1-WH, PTZ Optics, Small Universal Wall Mount (White)	Wall mount for the camera	100%
51	2-Alak School	USB Capture HDMI Gen 2	USB interface to capture high-quality video and audio signals	100%
52	2-Alak School	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	Extends the USB capability	100%
53	2-Alak School	NOTE: Audio Digital Signal Processor	NOTE and not a cost item	
54	2-Alak School	TesiraFORTÉ DAN CI, Biamp, Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	Digital audio service used to manage audio distribution	100%
55	2-Alak School	NOTE: Audio Amplifier	NOTE and not a cost item	
56	2-Alak School	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	Amplifier for audio signals during connections	100%
57	2-Alak School	NOTE: Speakers	NOTE and not a cost item	
58	2-Alak School	V2-1296, Community, Full-Range 2-Way 12-Inch 90 X 60 Black	Speaker used to hear remote instructor or students	100%
59	2-Alak School	NOTE: Wireless Microphones	NOTE and not a cost item	
60	2-Alak School	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	Wireless microphone for instructor	100%

61	2-Alak School	SLXD24/SM58-J52, Shure, Wireless Vocal System with SM58	Wireless microphone components	100%
62	2-Alak School	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	Used to pick up wireless microphone signals	100%
63	2-Alak School	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	Extends the cabling for the microphone system	100%
64	2-Alak School	In-line antenna amplifier for remote mounting. (470-902 MHz)	Amplifier for audio signals during connections	100%
65	2-Alak School	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	Transmitter for audio signals	100%
66	2-Alak School	NOTE: Wired Desk Microphone in Control Room	NOTE and not a cost item	
67	2-Alak School	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	Desktop microphone for use by participants	100%
68	2-Alak School	NOTE: Tabletop Panel in Control Room, Wall Mount Behind Stage	NOTE and not a cost item	
69	2-Alak School	10.1 in. Wall Mount Touch Screen, Black Smooth	Wall mount touch controller	100%
70	2-Alak School	10.1 in. Tabletop Touch Screen, Black Smooth	Touch screen controller for managing the content	100%
71	2-Alak School	Network Equipment	NOTE and not a cost item	
72	2-Alak School	24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	Switching engineered for 1G AV over IP with rear-facing ports ensuring a clean integration in AV racks	100%
73	2-Alak School	AXM765-10000S, Netgear, SFP+ Transceiver, converts SFP+ ports to copper 10GBase-T	Convert and extend various types of data signals	100%
74	2-Alak School	WAX630E, Netgear, AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	Wireless access point for internet access	100%
75	2-Alak School	DWR-24-22, Middle Atlantic, DWR Series Pivoting Wall Rack, 24RU	Rack for components	100%
76	2-Alak School	Sequencing Surge Eliminator and Power Conditioner with Remote & Key Lock, 1RU	Rack components needed to secure equipment	100%

77	2-Alak School	CPS1215RM, CyberPower, Power Distribution Unit	Power distribution system	100%
78	2-Alak School	SPEC-CABLES, Cables, Connectors, Misc.	Cables needed for connecting components	100%
79	2-Alak School	Adoption & Digital Training Services with 3 years of technical assistance	Onsite and remote technical assistance for equipment at this site	100%
80	2-Alak School	Cybersecurity Hardware and Software to Protect the Program	Cybersecurity software needed to secure the connections and protect against threats	100%
81	2-Alak School	Required equipment replacement for 3 years	Required equipment and parts replacement for 3 years	100%
82	2-Alak School	Installation	Installation of components	100%
83	2-Alak School	Shipping	Cost of shipping components	100%

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Line Item #	Site Number & Name	Description	Explanation of how item will be used in DLT project	DLT Use
84	3-Barrow High School	Instructional Programming: Distance Learning Course Creation - Collaboration & co-development w/staff - Media/Asset capture - Editing for Product - Review & Finalizations - Publication to Distribution System	Instructional programming provided by a 3rd party	100%
85	3-Barrow High School	NOTE: Projection Screen	NOTE and not a cost item	
86	3-Barrow High School	S3WF185PW-6S12W110SIO, Screen Innovations, 185", 16:10, Pure White 1.3, Flush Mount Projection Screen	Projector screen for viewing content or people in the interactive synchronous connection	100%
87	3-Barrow High School	NOTE: Projector	NOTE and not a cost item	
88	3-Barrow High School	EB-PU1008B Business Projector, 8,500 Lumens, WUXGA, Black	Projector for showing content and people	100%
89	3-Barrow High School	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	Lens for the projector	100%
90	3-Barrow High School	NOTE: Projector Mount	Mount to install the projector	

91	3-Barrow High School	RPA Elite Universal Projector Mount with Keyed Locking	Locking system for the projector	100%
92	3-Barrow High School	3-5' Adjustable Extension Column, Pole	Pole to mount the projector from the ceiling	100%
93	3-Barrow High School	Threaded Pipe Coupler	Parts for mounting the projector	100%
94	3-Barrow High School	48 Inch Fixed Extension Column, Pole	Parts for mounting the projector	100%
95	3-Barrow High School	Angled Ceiling Plate	Parts for mounting the projector	100%
96	3-Barrow High School	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	Parts for mounting the projector	100%
97	3-Barrow High School	NOTE: Control and Video Transport	NOTE and not a cost item	
98	3-Barrow High School	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	Device to manage images and content and how they are viewed during the connection	100%
99	3-Barrow High School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
100	3-Barrow High School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
101	3-Barrow High School	DB9 Female to Bare Wire, 6'	Cables needed for connecting components	100%
102	3-Barrow High School	Note: Central Matrix and Controller (In Rack)	Matrix switchers for complete, end-to-end digital AV signal transmission and routing over fiber optic cable	100%
103	3-Barrow High School	3-Series 4K DigitalMedia Presentation System 350	Provides a complete 4K AV presentation control and signal routing solution for classrooms.	100%
104	3-Barrow High School	High-Efficiency Power Pack	Power supply pack for the presentation system above	100%
105	3-Barrow High School	NOTE: Stage Transmitters (Behind Stage)	NOTE and not a cost item	
106	3-Barrow High School	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	This device functions as a DM 8G+ transmitter and switcher with HDMI, VGA, and analog audio inputs	100%
107	3-Barrow High School	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
108	3-Barrow High School	NOTE: Control Room HDMI , LAN, Control, MIC Plate (In Control Room)	NOTE and not a cost item	
109	3-Barrow High School	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	Wall plate for connecting components	100%

110	3-Barrow High School	One XLR 3-pin Female to Solder Cup - Neutrik	Component needed for audio connections	100%
111	3-Barrow High School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
112	3-Barrow High School	Set-up Engraving	Used to label components	100%
113	3-Barrow High School	Engraving	Labeling of components	100%
114	3-Barrow High School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
115	3-Barrow High School	Set-up Engraving	Used to label components	100%
116	3-Barrow High School	Engraving	Labeling of components	100%
117	3-Barrow High School	NOTE: Wireless Presentation Gateway (Behind Stage)	NOTE and not a cost item	
118	3-Barrow High School	Clickshare C-10, C-10 base, 1 Gen4 Button	Wireless presentation system	100%
119	3-Barrow High School	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	Wall plate for connecting components	100%
120	3-Barrow High School	QuickPort Decora Insert, 1-Port, Black	Cover for electrical switch	100%
121	3-Barrow High School	Wall Plate Decora 2 Gang, Black	Wall plate for connecting components	100%
122	3-Barrow High School	KJC61LBLK, Comprehensive, Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	Device to couple cables	100%
123	3-Barrow High School	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
124	3-Barrow High School	1' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
125	3-Barrow High School	NOTE: Roku Streaming Player (Within Rack)	NOTE and not a cost item	
126	3-Barrow High School	Roku Ultra, Roku, Streaming Player	Used to bring content into the classroom	100%
127	3-Barrow High School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
128	3-Barrow High School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
129	3-Barrow High School	NOTE: Zoom Room Fixed Asset PC (In Control Room)	NOTE and not a cost item	
130	3-Barrow High School	OFE, Intel, Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4- Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	Computer for instructor	100%

131	3-Barrow High School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
132	3-Barrow High School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
133	3-Barrow High School	SuperJoy Joystick Controller	Controller for various software applications	100%
134	3-Barrow High School	PT30X4KWHG3, PTZ Optics, PT30X-NDI -- 30X Move 4K (White)	Camera for capturing instructor or students	100%
135	3-Barrow High School	HCM-1-WH, PTZ Optics, Small Universal Wall Mount (White)	Wall mount for the camera	100%
136	3-Barrow High School	USB Capture HDMI Gen 2	USB interface to capture high-quality video and audio signals	100%
137	3-Barrow High School	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	Extends the USB capability	100%
138	3-Barrow High School	NOTE: Audio Digital Signal Processor	NOTE and not a cost item	
139	3-Barrow High School	TesiraFORTÉ DAN CI, Biamp, Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	Digital audio service used to manage audio distribution	100%
140	3-Barrow High School	NOTE: Wireless Delegate Microphone System	NOTE and not a cost item	
141	3-Barrow High School	Access Point Transceiver for US only; manages audio routing, frequency coordination, and system control for up to 125 wireless conference units; includes 10 DanteTM inputs/outputs and analog XLR inputs/outputs; requires Power-over-Ethernet. Includes paintable cover and wall/ceiling mounting plate.	Manages audio routing, frequency coordination, and system control	100%

142	3-Barrow High School	Wireless Conference Unit with 4.3 inch color touchscreen for voting, interpretation channel selection, and conference information, integrated NFC ID card reader, chairman, delegate, listener, and ambient modes, integrated loudspeaker, 10-pin microphone connector, 2 3.5mm headphone jacks with volume controls. Includes SB930 rechargeable Li-Ion battery.	A touchscreen conferencing device	100%
143	3-Barrow High School	MXC 25" GOOSENECK MICROPHONE, DUAL FLEX	Microphones	100%
144	3-Barrow High School	Rechargeable Li-Ion battery with Test button and LED charge status indicators; included with MXCW640 wireless conference unit	Battery for microphones	100%
145	3-Barrow High School	Rechargeable Li-Ion battery with Test button and LED charge status indicators; included with MXCW640 wireless conference unit	Battery for microphones	100%
146	3-Barrow High School	MXCWNCs-AR, Shure, NETWORKED CHARGING STATION, 10BAY SB930	Charging stations for microphones	100%
147	3-Barrow High School	NOTE: Wireless Microphones	NOTE and not a cost item	
148	3-Barrow High School	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	Wireless microphone for instructor	100%
149	3-Barrow High School	SLXD24/SM58-J52, Shure, Wireless Vocal System with SM58	Wireless microphone components	100%
150	3-Barrow High School	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	Used to pick up wireless microphone signals	100%
151	3-Barrow High School	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	Extends the cabling for the microphone system	100%
152	3-Barrow High School	In-line antenna amplifier for remote mounting. (470-902 MHz)	Amplifier for audio signals during connections	100%
153	3-Barrow High School	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	Transmitter for audio signals	100%

154	3-Barrow High School	NOTE: Wired Desk Microphone in Control Room	NOTE and not a cost item	
155	3-Barrow High School	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	Desktop microphone for use by participants	100%
156	3-Barrow High School	NOTE: Audio Amplifier	NOTE and not a cost item	
157	3-Barrow High School	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	Amplifier for audio signals during connections	100%
158	3-Barrow High School	NOTE: Speakers	NOTE and not a cost item	
159	3-Barrow High School	V2-1296, Community, Full-Range 2-Way 12-Inch 90 X 60 Black	Speaker used to hear remote instructor or students	100%
160	3-Barrow High School	Cables, Connectors, Misc.	Cables needed for connecting components	100%
161	3-Barrow High School	Adoption & Digital Training Services with 3 years of technical assistance	Onsite and remote technical assistance for equipment at this site	100%
162	3-Barrow High School	Cybersecurity Hardware and Software to Protect the Program	Cybersecurity software needed to secure the connections and protect against threats	100%
163	3-Barrow High School	Required equipment replacement for 3 years	Required equipment and parts replacement for 3 years	100%
164	3-Barrow High School	Installation	Installation of components	100%
165	3-Barrow High School	Shipping	Cost of shipping components	100%

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Line Item #	Site Number & Name	Description	Explanation of how item will be used in DLT project	DLT Use
167	4-Eben Hopson Middle School	NOTE: Projection Screen	NOTE and not a cost item	
168	4-Eben Hopson Middle School	S3TF150PW-5S24W110SIO, Screen Innovations, 150", 16:9, Pure White 1.3, Flush Mount Projection Screen	Screen for viewing content or people	100%
169	4-Eben Hopson Middle School	NOTE: Projector	NOTE and not a cost item	
170	4-Eben Hopson Middle School	4K UHD 3840 x 2160 6000 Lumens Laser Projector	Projector for showing content and people	100%

171	4-Eben Hopson Middle School	NOTE: Projector Mount	Mount to install the projector	
172	4-Eben Hopson Middle School	RPA Elite Universal Projector Mount with Keyed Locking	Locking system for the projector	100%
173	4-Eben Hopson Middle School	3-5' Adjustable Extension Column, Pole	Pole to mount the projector from the ceiling	100%
174	4-Eben Hopson Middle School	Threaded Pipe Coupler	Parts for mounting the projector	100%
175	4-Eben Hopson Middle School	48 Inch Fixed Extension Column, Pole	Parts for mounting the projector	100%
176	4-Eben Hopson Middle School	Angled Ceiling Plate	Parts for mounting the projector	100%
177	4-Eben Hopson Middle School	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	Parts for mounting the projector	100%
178	4-Eben Hopson Middle School	NOTE: Control and Video Transport	NOTE and not a cost item	
179	4-Eben Hopson Middle School	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	Device to manage images and content and how they are viewed during the connection	100%
180	4-Eben Hopson Middle School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
181	4-Eben Hopson Middle School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
182	4-Eben Hopson Middle School	DB9 Female to Bare Wire, 6'	Cables needed for connecting components	100%
183	4-Eben Hopson Middle School	NOTE: Central Matrix and Controller (In Rack)	NOTE and not a cost item	
184	4-Eben Hopson Middle School	3-Series 4K DigitalMedia Presentation System 350	Provides a complete 4K AV presentation control and signal routing solution for classrooms.	100%
185	4-Eben Hopson Middle School	High-Efficiency Power Pack	Power supply pack for the presentation system above	100%
186	4-Eben Hopson Middle School	NOTE: Stage Transmitters (Behind Stage)	NOTE and not a cost item	

187	4-Eben Hopson Middle School	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	This device functions as a DM 8G+ transmitter and switcher with HDMI, VGA, and analog audio inputs	100%
188	4-Eben Hopson Middle School	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
189	4-Eben Hopson Middle School	NOTE: Control Room HDMI , LAN, Control, MIC Plate (In Control Room)	NOTE and not a cost item	
190	4-Eben Hopson Middle School	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	Wall plate for connecting components	100%
191	4-Eben Hopson Middle School	One XLR 3-pin Female to Solder Cup - Neutrik	Component needed for audio connections	100%
192	4-Eben Hopson Middle School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
193	4-Eben Hopson Middle School	Set-up Engraving	Used to label components	100%
194	4-Eben Hopson Middle School	Engraving	Labeling of components	100%
195	4-Eben Hopson Middle School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
196	4-Eben Hopson Middle School	Set-up Engraving	Used to label components	100%
197	4-Eben Hopson Middle School	Engraving	Labeling of components	100%
198	4-Eben Hopson Middle School	NOTE: Wireless Presentation Gateway (Behind Stage)	NOTE and not a cost item	
199	4-Eben Hopson Middle School	Clickshare C-10, C-10 base, 1 Gen4 Button	Wireless presentation system	100%
200	4-Eben Hopson Middle School	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	Wall plate for connecting components	100%
201	4-Eben Hopson Middle School	QuickPort Decora Insert, 1-Port, Black	Cover for electrical switch	100%
202	4-Eben Hopson Middle School	Wall Plate Decora 2 Gang, Black	Wall plate for connecting components	100%

203	4-Eben Hopson Middle School	KJC61LBLK, Comprehensive, Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	Device to couple cables	100%
204	4-Eben Hopson Middle School	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
205	4-Eben Hopson Middle School	1' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
206	4-Eben Hopson Middle School	NOTE: Roku Streaming Player (Within Rack)	NOTE and not a cost item	
207	4-Eben Hopson Middle School	Roku Ultra, Roku, Streaming Player	Used to bring content into the classroom	100%
208	4-Eben Hopson Middle School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
209	4-Eben Hopson Middle School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
210	4-Eben Hopson Middle School	OFE, Intel, Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4- Core, 2.8–4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	Computer for instructor	100%
211	4-Eben Hopson Middle School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
212	4-Eben Hopson Middle School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
213	4-Eben Hopson Middle School	SuperJoy Joystick Controller	Controller for various software applications	100%
214	4-Eben Hopson Middle School	PT30X4KWHG3, PTZ Optics, PT30X-NDI -- 30X Move 4K (White)	Camera for capturing instructor or students	100%
215	4-Eben Hopson Middle School	HCM-1-WH, PTZ Optics, Small Universal Wall Mount (White)	Wall mount for the camera	100%
216	4-Eben Hopson Middle School	USB Capture HDMI Gen 2	USB interface to capture high-quality video and audio signals	100%
217	4-Eben Hopson Middle School	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	Extends the USB capability	100%

218	4-Eben Hopson Middle School	NOTE: Audio Digital Signal Processor	NOTE and not a cost item	
219	4-Eben Hopson Middle School	TesiraFORTÉ DAN CI, Biamp, Fixed I/O DSP with 12 analog inputs, 8 analog outputs, 8 channels configurable USB audio, 32 x 32 channels of Dante, and AEC technology (all 12 inputs)	Digital audio service used to manage audio distribution	100%
220	4-Eben Hopson Middle School	NOTE: Audio Amplifier	NOTE and not a cost item	
221	4-Eben Hopson Middle School	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	Amplifier for audio signals during connections	100%
222	4-Eben Hopson Middle School	NOTE: Speakers	NOTE and not a cost item	
223	4-Eben Hopson Middle School	V2-1296, Community, Full-Range 2-Way 12-Inch 90 X 60 Black	Speaker used to hear remote instructor or students	100%
224	4-Eben Hopson Middle School	NOTE: Wireless Microphones	NOTE and not a cost item	
225	4-Eben Hopson Middle School	Combo System with SLXD1 Bodypack, SLXD4 Receiver, SM58, and WL185 Lavalier Microphone	Wireless microphone for instructor	100%
226	4-Eben Hopson Middle School	SLXD24/SM58-J52, Shure, Wireless Vocal System with SM58	Wireless microphone components	100%
227	4-Eben Hopson Middle School	Five-way active antenna and power distribution system for QLX-D, ULX, ULX-D, SLX, and BLX (BLX4R only) receivers. Switchable frequency ranges: 174-216 MHz, 470-960 MHz, 1240-1260 MHz, 1492-1525 MHz, 1785-1805 MHz	Used to pick up wireless microphone signals	100%
228	4-Eben Hopson Middle School	100' UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type	Extends the cabling for the microphone system	100%
229	4-Eben Hopson Middle School	In-line antenna amplifier for remote mounting. (470- 902 MHz)	Amplifier for audio signals during connections	100%
230	4-Eben Hopson Middle School	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	Transmitter for audio signals	100%
231	4-Eben Hopson Middle School	NOTE: Wired Desk Microphone in Control Room	NOTE and not a cost item	

232	4-Eben Hopson Middle School	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	Desktop microphone for use by participants	100%
233	4-Eben Hopson Middle School	NOTE: Tabletop Panel in Control Room, Wall Mount Behind Stage	NOTE and not a cost item	
234	4-Eben Hopson Middle School	10.1 in. Wall Mount Touch Screen, Black Smooth	Wall mount touch controller	100%
235	4-Eben Hopson Middle School	10.1 in. Tabletop Touch Screen, Black Smooth	Touch screen controller for managing the content	100%
236	4-Eben Hopson Middle School	NOTE: Network Equipment	NOTE and not a cost item	
237	4-Eben Hopson Middle School	24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	Switching engineered for 1G AV over IP with rear-facing ports ensuring a clean integration in AV racks	100%
238	4-Eben Hopson Middle School	AXM765-10000S, Netgear, SFP+ Transceiver, converts SFP+ ports to copper 10GBase-T	Convert and extend various types of data signals	100%
239	4-Eben Hopson Middle School	WAX630E, Netgear, AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	Wireless access point for internet access	100%
240	4-Eben Hopson Middle School	Sequencing Surge Eliminator and Power Conditioner with Remote & Key Lock, 1RU	Rack components needed to secure equipment	100%
241	4-Eben Hopson Middle School	CPS1215RM, CyberPower, Power Distribution Unit	Power distribution system	100%
242	4-Eben Hopson Middle School	Cables, Connectors, Misc.	Cables needed for connecting components	100%
243	4-Eben Hopson Middle School	Adoption & Digital Training Services with 3 years of technical assistance	Onsite and remote technical assistance for equipment at this site	100%
244	4-Eben Hopson Middle School	Cybersecurity Hardware and Software to Protect the Program	Cybersecurity software needed to secure the connections and protect against threats	100%
245	4-Eben Hopson Middle School	Required equipment replacement for 3 years	Required equipment and parts replacement for 3 years	100%
246	4-Eben Hopson Middle School	Installation	Installation of components	100%

247	4-Eben Hopson Middle School	Shipping	Cost of shipping components	100%
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North Slope Borough School District Telecommunications System Plan

Line Item #	Site Number & Name	Description	Explanation of how item will be used in DLT project	DLT Use
257	12-Tikigaq School	S3WF185PW-6S12W110SIO, Screen Innovations, 185", 16:10, Pure White 1.3, Flush Mount Projection Screen	Projector screen for viewing content or people in the interactive synchronous connection	100%
258	12-Tikigaq School	NOTE: Projector	NOTE and not a cost item	
259	12-Tikigaq School	EB-PU1008B Business Projector, 8,500 Lumens, WUXGA, Black	Projector for showing content and people	100%

260	12-Tikigaq School	Middle Zoom Lens #4 for Pro G7000 and L1000 Series (ELPLM11)	Lens for the projector	100%
261	12-Tikigaq School	NOTE: Projector Mount	Mount to install the projector	
262	12-Tikigaq School	RPA Elite Universal Projector Mount with Keyed Locking	Locking system for the projector	100%
263	12-Tikigaq School	3-5' Adjustable Extension Column, Pole	Pole to mount the projector from the ceiling	100%
264	12-Tikigaq School	Threaded Pipe Coupler	Parts for mounting the projector	100%
265	12-Tikigaq School	48 Inch Fixed Extension Column, Pole	Parts for mounting the projector	100%
266	12-Tikigaq School	Angled Ceiling Plate	Parts for mounting the projector	100%
267	12-Tikigaq School	PMK 155 -- 1U, 1/2 Rack Width Mounting Kit; White	Parts for mounting the projector	100%
268	12-Tikigaq School	NOTE: Control and Video Transport	NOTE and not a cost item	
269	12-Tikigaq School	DigitalMedia 8G+ 4K60 4:4:4 HDR Receiver and Room Controller with Scaler	Device to manage images and content and how they are viewed during the connection	100%
270	12-Tikigaq School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
271	12-Tikigaq School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
272	12-Tikigaq School	DB9 Female to Bare Wire, 6'	Cables needed for connecting components	100%
273	12-Tikigaq School	NOTE: Central Matrix and Controller (In Rack)	NOTE and not a cost item	

274	12-Tikigaq School	3-Series 4K DigitalMedia Presentation System 350	Provides a complete 4K AV presentation control and signal routing solution for classrooms.	100%
275	12-Tikigaq School	High-Efficiency Power Pack	Power supply pack for the presentation system above	100%
276	12-Tikigaq School	NOTE: Stage Transmitters (Behind Stage)	NOTE and not a cost item	
277	12-Tikigaq School	DigitalMedia 8G+ 4K60 4:4:4 HDR Transmitter 302	This device functions as a DM 8G+ transmitter and switcher with HDMI, VGA, and analog audio inputs	100%
278	12-Tikigaq School	16.4' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
279	12-Tikigaq School	NOTE: Control Room HDMI , LAN, Control, MIC Plate (In Control Room)	NOTE and not a cost item	
280	12-Tikigaq School	AAP 102 -- Two-Gang AV Connectivity Mounting Frame, Black	Wall plate for connecting components	100%
281	12-Tikigaq School	One XLR 3-pin Female to Solder Cup - Neutrik	Component needed for audio connections	100%
282	12-Tikigaq School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%
283	12-Tikigaq School	Set-up Engraving	Used to label components	100%
284	12-Tikigaq School	Engraving	Labeling of components	100%
285	12-Tikigaq School	One HDMI Female to Female on 10" Pigtail, One RJ-45 Female to Female Barrel - CAT 5e	Device to couple cables	100%

286	12-Tikigaq School	Set-up Engraving	Used to label components	100%
287	12-Tikigaq School	Engraving	Labeling of components	100%
288	12-Tikigaq School	NOTE: Wireless Presentation Gateway (Behind Stage)	NOTE and not a cost item	
289	12-Tikigaq School	Clickshare C-10, C-10 base, 1 Gen4 Button	Wireless presentation system	100%
290	12-Tikigaq School	DigitalMedia 8G+ 4K60 4:4:4 HDR Wall Plate Transmitter, Black	Wall plate for connecting components	100%
291	12-Tikigaq School	QuickPort Decora Insert, 1-Port, Black	Cover for electrical switch	100%
292	12-Tikigaq School	Wall Plate Decora 2 Gang, Black	Wall plate for connecting components	100%
293	12-Tikigaq School	KJC61LBLK, Comprehensive, Keystone Jack Feedthrough Module CAT6 Inline Coupler, Black	Device to couple cables	100%
294	12-Tikigaq School	.99' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
295	12-Tikigaq School	1' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
296	12-Tikigaq School	NOTE: Roku Streaming Player (Within Rack)	NOTE and not a cost item	
297	12-Tikigaq School	Roku Ultra, Roku, Streaming Player	Used to bring content into the classroom	100%
298	12-Tikigaq School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
299	12-Tikigaq School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
300	12-Tikigaq School	OFE, Intel, Intel NUC 11 Pro NUC11PAHi7 Home & Business Desktop Mini PC, Intel Core i7-1165G7 4- Core, 2.8-4.7 GHz Turbo, 8 Thread, 12MB Cache, 16GB DDR4 RAM, 512GB PCIe SSD, 28W Intel Iris Xe Graphics, Win 10 Pro	Computer for instructor	100%
301	12-Tikigaq School	4.92' Liberty HALO Series High Speed HDMI with Ethernet Cable	Cables needed for connecting components	100%
302	12-Tikigaq School	PCE5B005BK, Liberty, 5' Category 5e U/UTP Pre-Made Patch Cable	Cables needed for connecting components	100%
303	12-Tikigaq School	SuperJoy Joystick Controller	Controller for various software applications	100%
304	12-Tikigaq School	PT30X4KWHG3, PTZ Optics, PT30X-NDI -- 30X Move 4K (White)	Camera for capturing instructor or students	100%
305	12-Tikigaq School	HCM-1-WH, PTZ Optics, Small Universal Wall Mount (White)	Wall mount for the camera	100%

306	12-Tikigaq School	USB Capture HDMI Gen 2	USB interface to capture high-quality video and audio signals	100%
307	12-Tikigaq School	Intelix Series USB 3.1 "Plus" High Performance / Backward Compatible Extender Set	Extends the USB capability	100%
308	12-Tikigaq School	NOTE: Audio Digital Signal Processor	NOTE and not a cost item	
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310	12-Tikigaq School	NOTE: Audio Amplifier	NOTE and not a cost item	
311	12-Tikigaq School	Amplified Loudspeaker Controller - 4 Channels X 400W + DSP Dante	Amplifier for audio signals during connections	100%
312	12-Tikigaq School	NOTE: Speakers	NOTE and not a cost item	
313	12-Tikigaq School	V2-1296, Community, Full-Range 2-Way 12-Inch 90 X 60 Black	Speaker used to hear remote instructor or students	100%
314	12-Tikigaq School	NOTE: Wireless Microphones	NOTE and not a cost item	
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319	12-Tikigaq School	In-line antenna amplifier for remote mounting. (470-902 MHz)	Amplifier for audio signals during connections	100%
320	12-Tikigaq School	1/2 Wave Omnidirectional Antenna for P10T Transmitter, (554-626MHz)	Transmitter for audio signals	100%
321	12-Tikigaq School	NOTE: Wired Desk Microphone in Control Room	NOTE and not a cost item	

322	12-Tikigaq School	Cardioid-12" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	Desktop microphone for use by participants	100%
323	12-Tikigaq School	NOTE: Tabletop Panel in Control Room, Wall Mount Behind Stage	NOTE and not a cost item	
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325	12-Tikigaq School	10.1 in. Tabletop Touch Screen, Black Smooth	Touch screen controller for managing the content	100%
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329	12-Tikigaq School	WAX630E, Netgear, AXE7800 Tri-Band Cloud Managed Wi-Fi 6E Access Point	Wireless access point for internet access	100%
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334	12-Tikigaq School	Cybersecurity Hardware and Software to Protect the Program	Cybersecurity software needed to secure the connections and protect against threats	100%
335	12-Tikigaq School	Required equipment replacement for 3 years	Required equipment and parts replacement for 3 years	100%
336	12-Tikigaq School	Installation	Installation of components	100%
337	12-Tikigaq School	Shipping	Cost of shipping components	100%