REQUEST FOR PROPOSALS

KIPP NYC Public Charter Schools
Commonly known as 'KIPP NYC Schools'

New Teaching Wall Whiteboards
&
Classroom Projector/Sound Bar Replacement
Summer 2018

Bid Responses Due No Later than January 24, 2018
For work to be completed no later than July 30, 2018, pending district approval
Submit intent to bid no later than Monday, January 15, 2018
Site Visits can be scheduled – requests must arrive by Monday, January 15, 2018

Questions and responses must be sent via email to TechBids@kippnyc.org.
For more information about our schools, visit www.kippnyc.org.

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I. Summary

KIPP NYC Schools, a network of public charter schools located in New York City, serves approximately 5022 students in grades K-12 and 1366 alumni. The organization includes 11 current schools, with 2 additional schools opening in summer 2018, 1 central administrative Shared Services Team office with an office located in midtown, and 1 college support program called KIPP Through College, with an office located in the Bronx. More details about KIPP NYC are at www.kippnyc.org.

Classroom teachers at KIPP NYC utilize technology on a daily basis to deliver instruction. Every classroom has a wall-mounted or ceiling-mounted projector and document camera, as well as a 'Teaching Wall' for the projection. Every teacher is issued a KIPP NYC-supported laptop; most also opt for a KIPP NYC-supported cell phone. Students use technology on daily basis, with most schools utilizing Chromebooks heavily.

KIPP NYC has approximately 275 projectors currently installed across our 11 schools; the new schools opening in summer 2018 will also have projectors installed in every classroom.[1] The Appendices of this document outline requirements for the classroom whiteboard and projection upgrades planned for summer of 2018 for 3 of our 11 existing schools. The summer 2018 work is the initial phase of a 5-year initiative to upgrade and standardize classroom projection at all 11 existing schools. The goal of the 5-year initiative is to implement (across all classrooms) pen-touch interactive projection, 16:10 display on that projection, and enhanced sound via a Bluetooth-capable sound bar attached to the projectors. The 5-year initiative will also address lifecycle replacement needs at all campuses.

II. Basic Bidding Requirements & Guidelines

Line No.	Item Description
1	All bids must include line item pricing, breaking out materials, labor, shipping, etc. See Appendices for details by room number at each location. Bidders can bid on all or part of work. Prevailing wage rates apply to all projects herein.
2	Vendors must adhere to the New York City Department of Education's Division of School Facilities' Dust Protocol as well as other norms established by the Division of School Facilities.
3	All vendors bidding on the installation of the whiteboards must provide a fully vendor-managed solution for warehousing whiteboards off campus until start of installation. Vendor must also provide a fully vendor-managed solution for delivery to the correct rooms as per the scope requirements. The bid response must include information regarding the vendor-managed solution for warehousing and delivery.

[1] The RFP for the new schools' projection work will be released at a later date.

	****There is no space for storage of the whiteboards on campus prior to the start of the installation work. The installation work will start toward the end of the last week of June 2018. All installation work must be fully complete by July 30, 2018.****
4	All vendors bidding on the projector/sound bar installation work must demonstrate a record of success with installation and calibration of Epson projectors and standard sound bars. KIPP NYC will procure and provide the projectors and sound bar, using a make and model of KIPP NYC's choice. The projection installation vendor is responsible for determining the room fit for the final installation based on the manufacturer guides and the room measurements (rooms vary). In the bid responses, evidence of success with installing and configuring Epson projectors can be demonstrated in 1-3 of the following ways: 1. Written validation from Epson, 2. Via written references provided as part of the bid package, 3. Photographic Evidence from recent installs
5	The Appendices refer to Option 1 and Option 2 for whiteboard sizing. 1. Option 1 is procurement of the Standard Room whiteboard sizes for all rooms (one 5'x'5 on left, one 5'x10' centered, one 5'x5' on right). Install vendor would need to modify the sizing during installation to accommodate rooms with smaller areas for installation. 2. Option 2 is procurement of Non-Standard Rooms' whiteboards based on custom sixes detailed in the room-by-room information in the Appendices. In the Option 2 approach, the middle board will always be 5'x10' and then the left and right board sizes would vary. See details in Appendices. 3. Vendors can elect to bid on one or both options and provide insight as to the choice. Modify labor, delivery, and install costs accordingly.

III. Technical Requirements & Considerations

Line No.	Item
1	At KIPP NYC, we refer to the wall with the whiteboards and projector as the 'Teaching Wall.' Each Teaching Wall typically has 3 whiteboards installed – a larger one in the center, for the display of the projection, and two smaller boards, one on each side of the centered board.
2	All whiteboards must be 5 feet tall. Widths vary per the details in the Appendices – see item 5 in Table II as well for context. The 5' tall height is required to meet KIPP NYC's projection requirements (attaining approximately 100" diagonal on projected image).
3	All whiteboards must be magnetic.

<table>
<tr><td>4</td><td>Whiteboards construction should be of ceramic steel or similar highly durable material with demonstrated record of success and durability in K-12 school installations. Include all manufacturer product details and warranty information as part of the bid package.</td></tr>
<tr><td>5</td><td>All whiteboards must be compatible with wall or ceiling-mounted interactive projectors.</td></tr>
<tr><td>6</td><td>All whiteboards must have marker trays and be compatible with dry-erase markers and erasers. Whiteboards must have a demonstrated record of not ‘ghosting’ with repeated use of dry-erase markers and erasers.</td></tr>
<tr><td>7</td><td>During install planning phase, AV vendor must provide recommendations for whiteboard install height based on room-specific needs, projector requirements, and room use case (elementary vs. middle school students). The vendor needs to provide recommendations/measurements in writing to the KIPP NYC Tech Team by room. The AV vendor and KIPP NYC Tech Team will jointly evaluate the recommendations prior to sign off and start of install work. ***Note that ceiling heights in rooms vary across the campuses.***</td></tr>
<tr><td>8</td><td>All projector installs must include installation of custom-cut raceways and installation, sound bars, connection, testing of AV cabling and sound per KIPP NYC’s standards. KIPP NYC will procure the sound bars and projectors. The vendors bidding here must supply the wiring, termination boxes, faceplates, raceway, patch cables, fitting, etc. Please note that most of the rooms require surface-mount installations due to the cinder block construction of the buildings.
<table>
<tr><th>Category</th><th>Requirements</th></tr>
<tr><td>Face Plate</td><td>1 x USB-B Female, 1 x VGA Female, 1 x HDMI Female, 1 x 3.5mm Audio Female</td></tr>
<tr><td>Wiring (Between Projector & Face Plate)</td><td>1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio (1 x 3.5mm Audio from Projector audio-out to Sound bar audio-in)</td></tr>
<tr><td>Patch Cable (For computer to Face Plate)</td><td>1 x USB, 1 x VGA, 1 x HDMI, 1 x 3.5mm Audio -- length 10' for all</td></tr>
<tr><td>Raceway</td><td>No right-angle (90 degree) cuts, smooth rounded corners only
MUST be anchored to surface using wall-material-appropriate screws, not just adhesive.</td></tr>
</table></td></tr>
<tr><td>9</td><td>All projector installs must also include the final calibration of the Epson interactive projector for functioning of optimal projection through physical adjustment of projector. The Projector pen touch function must be set up and calibrated as well. [KIPP NYC does not utilize the hand touch function available on Epson projectors.]</td></tr>
<tr><td>10</td><td>Vendor must label all Epson accessories (projectors, pens, pen box, battery charging unit) as well as faceplate of term box in each room post-install with the room number with typed labeling with strong adhesive. Vendor must also label sound bar & sound bar remote.</td></tr>
</table>

11	Vendor must photograph final install and supply 1-2 photos per room via file sharing utility to KIPP NYC Tech Team.
12	Post-installation vendor must provide Excel spreadsheet of all room numbers and serial numbers of projectors installed within each room as part of turnover documentation.

IV. Customer and Financial References

Vendor must provide 3 valid customer references that can be available within 48hrs notice to discuss their experiences. The customer references should be relevant in size/nature to the customer.

Vendor must provide 3 financial references, in order to substantiate their ability to complete the projects in the desired time frame, based on areas such as: credit reports, financial history/statements, bank letter. All provided documentation must be dated no earlier than 60 days prior to bid submission date.

V. Format of Submission

Submit bids electronically by the Due Date to techbids@kippnyc.org. KIPP NYC will accept PDF and Excel formatting. Provide pricing by school, as well as a summary sheet showing pricing for all three projects by component and totals.

Appendix 1 – KIPP Infinity Middle Details

Line #	Room #	Room Type	Category	Overall Tasks + Option 1 for Whiteboard Sizing (ship as standard sizing for all rooms and cut back in field as part of install work)	Overall Space Available for Teaching Wall Whiteboards + Option 2 for Whiteboard Sizing (custom sizing based on the available area on Teaching Wall for whiteboards)	Option 2 Whiteboard Sizing Type
1	308	Classroom	Technology	Remove (1) smartboard	5x26 overall space available for Teaching Wall whiteboards	
2	308	Classroom	Construction	Remove existing whiteboard and patch the wall		

3	308	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
4	308	Classroom	Technology	Replace Projector on teaching wall		
5	308	Classroom	Technology	Install soundbar		
7	308A	Classroom	Office	Remove existing whiteboard and patch the wall	5x16 overall space available for Teaching Wall whiteboards	
8	308A	Classroom	Office	Remove existing raceway		
9	308A	Classroom	Office	Replace Projector on teaching wall		
10	308A	Classroom	Office	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
11	308A	Classroom	Office	Install soundbar		
13	308B	Classroom	Technology	Remove (1) smartboard	5x14 overall space available for Teaching Wall whiteboards	
14	308B	Classroom	Construction	Remove existing whiteboard and patch the wall		
15	308B	Classroom	Construction	Remove existing raceway		
16	308B	Classroom	Technology	Replace Projector on teaching wall		
17	308B	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x3 whiteboards (one on each side of centered whiteboard)	NSR Type A
18	308B	Classroom	Technology	Replace Projector on teaching wall		

19	308B	Classroom	Technology	Install soundbar		
21	308C	Classroom	Technology	Remove (1) smartboard	5x16 overall space available for Teaching Wall whiteboards	
22	308C	Classroom	Construction	Remove existing whiteboard and patch the wall		
23	308C	Classroom	Construction	Remove existing raceway		
24	308C	Classroom	Technology	Replace Projector on teaching wall		
25	308C	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
26	308C	Classroom	Technology	Install soundbar		
28	308D	Classroom	Technology	Remove (1) smartboard	5x15 overall space available for Teaching Wall whiteboards	
29	308D	Classroom	Construction	Remove existing whiteboard and patch the wall		
30	308D	Classroom	Construction	Remove existing raceway		
31	308D	Classroom	Technology	Replace Projector on teaching wall		
32	308D	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x3.5 whiteboards (one on each side of centered whiteboard)	NSR Type B
33	308D	Classroom	Technology	Install soundbar		
35	309	Classroom	Technology	Remove (1) smartboard	5x26 overall space available for Teaching Wall whiteboards	

36	309	Classroom	Construction	Remove existing whiteboard and patch the wall		
37	309		Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
38	309	Classroom	Technology	Replace Projector on teaching wall		
39	309	Classroom	Technology	Install soundbar		
41	310A	Classroom	Construction	Remove existing whiteboard and patch the wall	5x15 overall space available for Teaching Wall whiteboards	
42	310A	Classroom	Technology	Replace Projector on teaching wall		
43	310A	Classroom	Technology	Replace Raceway for Projector		
44	310A	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x3.5 whiteboards (one on each side of centered whiteboard)	NSR Type B
45	310A	Classroom	Technology	Install soundbar		
47	310B	Classroom	Technology	Remove (1) smartboard	5x28 overall space available for Teaching Wall whiteboards	
48	310B	Classroom	Construction	Remove existing whiteboard and patch the wall		
49	310B	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x9 whiteboards (one on each side of centered whiteboard)	NSR Type G
50	310B	Classroom	Technology	Replace Projector on teaching wall		

51	310B	Classroom	Technology	Install soundbar		
53	313	Classroom	Technology	Remove (1) smartboard	5x22 overall space available for Teaching Wall whiteboards	
54	313	Classroom	Construction	Remove existing whiteboard and patch the wall		
55	313	Classroom	Construction	Remove existing raceway		
56	313	Classroom	Technology	Replace Projector on teaching wall		
57	313	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No option 2 required	Standard
58	313	Classroom	Technology	Replace Projector on teaching wall		
59	313	Classroom	Technology	Install soundbar		
61	325A	Classroom	Technology	Remove (1) smartboard	5x26 overall space available for Teaching Wall whiteboards	
62	325A	Classroom	Technology	Replace Raceway for Projector		
63	325A	Classroom	Construction	Remove existing whiteboard and patch the wall		
64	325A	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
65	325A	Classroom	Technology	Replace Projector on teaching wall		
66	325A	Classroom	Technology	Install soundbar		

68	326	Classroom	Technology	Remove (1) CMP	5x26 overall space available for Teaching Wall whiteboards	
69	326	Classroom	Construction	Remove raceway for CMP and patch		
70	326	Classroom	Technology	Remove (1) smartboard		
71	326	Classroom	Technology	Replace Raceway for Projector		
72	326	Classroom	Construction	Remove existing whiteboard and patch the wall		
73	326	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
74	326	Classroom	Technology	Replace Projector on teaching wall		
75	326	Classroom	Technology	Install soundbar		
77	327	Classroom	Technology	Remove (1) CMP	5x26 overall space available for Teaching Wall whiteboards	
78	327	Classroom	Construction	Remove raceway for CMP and patch		
79	327	Classroom	Technology	Remove raceway for Smartboard		
80	327	Classroom	Technology	Replace Raceway for Projector		
81	327	Classroom	Construction	Remove existing whiteboard and patch the wall		
82	327	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
83	327	Classroom	Technology	Replace Projector on teaching wall		

84	327	Classroom	Technology	Install soundbar		
86	328	Classroom	Technology	Remove (1) CMP	5x24 overall space available for Teaching Wall whiteboards	
87	328	Classroom	Construction	Remove raceway for CMP and patch		
88	328	Classroom	Technology	Remove (1) smartboard		
89	328	Classroom	Technology	Remove raceway for Smartboard		
90	328	Classroom	Technology	Replace Raceway for Projector		
91	328	Classroom	Construction	Remove existing whiteboard and patch the wall		
92	328	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type H
93	328	Classroom	Technology	Replace Projector on teaching wall		
94	328	Classroom	Technology	Install soundbar		
96	335	Classroom	Technology	Remove (1) smartboard	5x26 overall space available for Teaching Wall whiteboards	
97	335	Classroom	Construction	Remove raceway for Smartboard and patch		
98	335	Classroom	Construction	Remove existing whiteboard and patch the wall		
99	335	Classroom	Technology	Replace raceway		
100	335	Classroom	Technology	Replace Projector on teaching wall		
101	335	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F

				on each side of centered whiteboard)		
102	335	Classroom	Technology	Install soundbar		
104	336	Classroom	Technology	Remove (1) smartboard	5x26 overall space available for Teaching Wall whiteboards	
105	336	Classroom	Construction	Remove raceway for Smartboard and patch		
106	336	Classroom	Construction	Remove existing whiteboard and patch the wall		
107	336	Classroom	Technology	Replace raceway		
108	336	Classroom	Technology	Replace Projector on teaching wall		
109	336	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
110	336	Classroom	Technology	Install soundbar		
112	337	Classroom	Technology	Remove (1) CMP	5x26 overall space available for Teaching Wall whiteboards	
113	337	Classroom	Construction	Remove raceway for CMP and patch		
114	337	Classroom	Technology	Remove (1) smartboard		
115	337	Classroom	Construction	Remove existing whiteboard and patch the wall		
116	337	Classroom	Technology	Remove raceway for Smartboard		
117	337	Classroom	Technology	Replace Projector on teaching wall		
118	337	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F

				on each side of centered whiteboard)		
119	337	Classroom	Technology	Install soundbar		
121	338	Classroom	Technology	Remove (1) CMP	5x26 overall space available for Teaching Wall whiteboards	
122	338	Classroom	Construction	Remove raceway for CMP and patch		
123	338	Classroom	Technology	Remove (1) smartboard		
124	338	Classroom	Construction	Remove existing whiteboard and patch the wall		
125	338	Classroom	Technology	Remove raceway for Smartboard		
126	338	Classroom	Technology	Replace Projector on teaching wall		
127	338	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F
128	338	Classroom	Technology	Install soundbar		
130	344	Classroom	Technology	Replace Projector on teaching wall	5x15 overall space available for Teaching Wall whiteboards	
131	344	Classroom	Technology	Install soundbar		No Change
132	344	Classroom	Technology	Use existing whiteboards. No whiteboard modification required.		
134	345	Classroom	Technology	Remove (1) smartboard	5x18 overall space available for Teaching Wall whiteboards	
135	345	Classroom	Technology	Remove raceway for Smartboard		

136	345	Classroom	Construction	Remove existing whiteboard and patch the wall		
137	345	Classroom	Technology	Replace raceway		
138	345	Classroom	Technology	Replace Projector on teaching wall		
139	345	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type D
140	345	Classroom	Technology	Install soundbar		
142	346	Classroom	Technology	Remove (1) smartboard	5x25 overall space available for Teaching Wall whiteboards	
143	346	Classroom	Construction	Remove existing whiteboard and patch the wall		
144	346	Classroom	Construction	Remove raceway and patch		
145	346	Classroom	Construction	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type H
146	346	Classroom	Technology	Replace Projector on teaching wall & center		
147	346	Classroom	Technology	Replace raceway		
148	346	Classroom	Technology	Install soundbar		
150	347	Classroom	Technology	Remove (1) smartboard	5x20 overall space available for Teaching Wall whiteboards	
151	347	Classroom	Construction	Remove existing whiteboard and patch the wall		
152	347	Classroom	Construction	Remove raceway and patch		

153	347	Classroom	Construction	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No option 2 required	Standard
154	347	Classroom	Technology	Replace Projector on teaching wall & center		
155	347	Classroom	Technology	Replace raceway		
156	347	Classroom	Technology	Install soundbar		
158	348	Classroom	Technology	Remove (1) smartboard	5x12 overall space available for Teaching Wall whiteboards	
159	348	Classroom	Construction	Remove existing whiteboard and patch the wall		
160	348	Classroom	Construction	Remove raceway and patch		
161	348	Classroom	Construction	Build out new 12' wall for teaching wall		
162	348	Classroom	Construction	Remove projector from teaching wall and patch		
163	348	Classroom	Technology	Replace Projector on NEW teaching wall		
164	348	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No option 2 required	Standard
165	348	Classroom	Technology	Install soundbar		
167	349	Classroom	Technology	Remove (1) smartboard	5x22 overall space available for Teaching Wall whiteboards	
168	349	Classroom	Construction	Remove existing whiteboard and patch the wall		
169	349	Classroom	Construction	Remove raceway and patch		

170	349	Classroom	Construction	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No option 2 required	Standard
171	349	Classroom	Technology	Replace Projector on teaching wall		
172	349	Classroom	Technology	Replace raceway		
173	349	Classroom	Technology	Install soundbar		
175	351	Classroom	Construction	Remove (1) CMP	5x22 overall space available for Teaching Wall whiteboards	
176	351	Classroom	Construction	Remove raceway for CMP and patch		
177	351	Classroom	Construction	Remove existing whiteboard and patch the wall		
178	351	Classroom	Construction	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No option 2 required	Standard
179	351	Classroom	Technology	Replace Projector on teaching wall		
180	351	Classroom	Technology	Replace raceway		
181	351	Classroom	Technology	Install soundbar		
183	375	Office	Construction	Remove existing whiteboard and patch the wall	5x10 overall space available for Teaching Wall whiteboards	
184	375	Office	Technology	Replace Projector on teaching wall		
185	375	Office	Technology	Replace Raceway for Projector		
186	375	Office	Technology	Install (1) 5x10 whiteboard (centered)	Only 1 option - Install (1) 5x10 whiteboard (centered)	NSR Type E
187	375	Office	Technology	Install soundbar		

Appendix 2 – KIPP STAR Harlem Elementary Details

Line #	Room #	Room Type	Category	Overall Tasks + Option 1 for Whiteboard Sizing (ship as standard sizing for all rooms and cut back in field as needed as part of install work)	Overall Space Available for Teaching Wall Whiteboards + Option 2 for Whiteboard Sizing (custom sizing based on the available area on Teaching Wall for whiteboards)	**Option 2 Whiteboard Sizing Type**
1	265A	Classroom	Technology	Remove (1) existing projector and existing raceway and termination box	5x10 overall space for whiteboard	
2	265A	Classroom	Construction	Remove existing whiteboard and patch the wall (tenative)		
3	265A	Classroom	Technology	Install (1) 5x10 whiteboard (centered) on the new Teaching Wall	Only one option - 5x10	NSR Type E
4	265A	Classroom	Technology	Install projector on the new Teaching Wall		
5	265A	Classroom	Technology	Install soundbar on the new Teaching Wall		
6	265B	Classroom	Technology	Remove (1) existing projector and existing raceway and termination box	5x20 overall space for whiteboard	
7	265B	Classroom	Construction	Remove existing whiteboard and patch the wall (tenative)		
8	265B	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard

				centered whiteboard) on the new Teaching Wall		
9	265B	Classroom	Technology	Install projector on the new Teaching Wall		
10	265B	Classroom	Technology	Install soundbar on the new Teaching Wall		
11	150	Classroom	Construction	Remove existing whiteboard, disable and cap the electrical outlets below the boards	5x25 overall space for whiteboard	
12	150	Classroom	Technology	Remove (1) existing projector and existing raceway and termination box		
13	150	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on the new Teaching Wall	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type H
14	150	Classroom	Technology	Install projector on the new Teaching Wall		
15	150	Classroom	Technology	Install soundbar on the new Teaching Wall		
16	176A	Classroom	Construction	Remove existing large whiteboards (3), disable and cap the electrical outlets below the boards	5x27 overall space for whiteboard	
17	176A	Classroom	Technology	Remove (1) existing projector and existing raceway and termination box		
18	176A	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	NSR Type F

				on the new Teaching Wall		
19	176A	Classroom	Technology	Install projector on the new Teaching Wall		
20	176A	Classroom	Technology	Install soundbar on the new Teaching Wall		
21	350	Classroom	Technology	Remove (1) smartboard	5x19 overall space for whiteboard	
22	350	Classroom	Construction	Remove existing whiteboard and patch the wall		
23	350	Classroom	Construction	Remove raceway and patch		
24	350	Classroom	Construction	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x10 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type D
25	350	Classroom	Technology	Replace Projector on teaching wall		
26	350	Classroom	Technology	Install soundbar		

Appendix 3 – KIPP AMP Middle Details

Line #	Room #	Room Type	Category	Overall Tasks + Option 1 for Whiteboard Sizing (ship as standard sizing for all rooms and cut back in field as part of install work)	Overall Space Available for Teaching Wall Whiteboards + Option 2 for Whiteboard Sizing (custom sizing based on the available area on Teaching Wall for whiteboards)	Option 2 Whiteboard Type
1	400-POD	Classroom	Technology	Replace Projector on teaching wall	5x8 overall space available for Teaching Wall whiteboards	
2	400-POD	Classroom	Technology	Remove existing whiteboard		

3	400-POD	Classroom	Technology	Replace raceway		
4	400-POD	Classroom	Technology	Install soundbar		
5	400-POD	Classroom	Technology	Install (1) 5x8 whiteboard		NSR Type I
6	401	Classroom	Technology	Remove existing projector	5x20 overall space available for Teaching Wall whiteboards	
7	401	Classroom	Construction	Remove raceway and patch		
8	401	Classroom	Construction	Remove existing whiteboards on green wall.		
9	401	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on Green wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
10	401	Classroom	Technology	Install NEW Projector on NEW teaching wall (Green wall)		
11	401	Classroom	Technology	Install soundbar		
12	402	Classroom	Technology	Remove (1) smartboard	5x20 overall space available for Teaching Wall whiteboards	
13	402	Classroom	Technology	Remove existing projector		
14	402	Classroom	Construction	Remove raceway and patch		
15	402	Classroom	Construction	Remove existing whiteboards on green wall.		
16	402	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard

				centered whiteboard) on Green wall.		
17	402	Classroom	Technology	Install NEW Projector on NEW teaching wall (Green wall)		
18	402	Classroom	Technology	Install soundbar		
19	403	Classroom	Technology	Remove existing projector	5x20 overall space available for Teaching Wall whiteboards	
20	403	Classroom	Construction	Remove raceway and patch		
21	403	Classroom	Construction	Remove existing whiteboards on green wall.		
22	403	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on Green wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
23	403	Classroom	Technology	Install NEW Projector on NEW teaching wall (Green wall)		
24	403	Classroom	Technology	Install soundbar		
25	404	Classroom	Technology	Remove existing projector	5x20 overall space available for Teaching Wall whiteboards	
26	404	Classroom	Construction	Remove raceway and patch		
27	404	Classroom	Construction	Remove existing whiteboards on green wall.		
28	404	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on Green wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard

29	404	Classroom	Technology	Install NEW Projector on NEW teaching wall (Green wall)		
30	404	Classroom	Technology	Install soundbar		
31	410	Classroom	Technology	Remove existing whiteboards		
32	410	Classroom	Technology	Replace Projector on teaching wall	5x16 overall space available for Teaching Wall whiteboards	
33	410	Classroom	Technology	Install soundbar		
34	410	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
35	412	Classroom	Technology	Remove existing whiteboards		
36	412	Classroom	Technology	Replace Projector on teaching wall	5x16 overall space available for Teaching Wall whiteboards	
37	412	Classroom	Technology	Install soundbar		
38	412	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
39	413	Classroom	Construction	Remove existing whiteboards		
40	413	Classroom	Construction	Remove (1) CMP	5x16 overall space available for Teaching Wall whiteboards	
41	413	Classroom	Construction	Remove raceway for CMP and patch		
42	413	Classroom	Technology	Install Epson interactive CMP		
43	413	Classroom	Technology	Install soundbar		

44	413	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
45	443	Classroom	Contruction	Remove existing whiteboards		
46	443	Classroom	Contruction	Remove (1) CMP	5x20 overall space available for Teaching Wall whiteboards	
47	443	Classroom	Contruction	Remove raceway for CMP and patch		
48	443	Classroom	Technology	Replace Projector on teaching wall		
49	443	Classroom	Technology	Install soundbar		
50	443	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
51	444	Classroom	Construction	Remove existing whiteboards		
52	444	Classroom	Construction	Remove (1) CMP	5x20 overall space available for Teaching Wall whiteboards	
53	444	Classroom	Construction	Remove raceway for CMP and patch		
54	444	Classroom	Technology	Install Epson interactive CMP		
55	444	Classroom	Technology	Install soundbar		
56	444	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard

57	461	Classroom	Construction	Remove (1) CMP	5x20 overall space available for Teaching Wall whiteboards	
58	461	Classroom	Construction	Remove raceway for CMP and patch		
59	461	Classroom	Construction	Remove existing whiteboard and patch the wall		
60	461	Classroom	Technology	Replace Projector on teaching wall		
61	461	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
62	461	Classroom	Technology	Install soundbar		
63	462	Classroom	Technology	Remove (1) smartboard	5x20 overall space available for Teaching Wall whiteboards	
64	462	Classroom	Technology	Remove existing projector		
65	462	Classroom	Construction	Remove raceway and patch		
66	462	Classroom	Construction	Remove existing whiteboards on blue wall		
67	462	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on blue wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
68	462	Classroom	Technology	Install NEW Projector on NEW teaching wall (Blue wall)		
69	462	Classroom	Technology	Install soundbar		
70	463	Classroom	Technology	Remove (1) smartboard	5x20 overall space available for Teaching Wall whiteboards	

71	463	Classroom	Technology	Remove existing projector		
72	463	Classroom	Construction	Remove raceway and patch		
73	463	Classroom	Construction	Remove existing whiteboards on blue wall		
74	463	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on Blue wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
75	463	Classroom	Technology	Install NEW Projector on NEW teaching wall (Blue wall)		
76	463	Classroom	Technology	Install soundbar		
77	464	Classroom	Construction	Remove (1) CMP	5x20 overall space available for Teaching Wall whiteboards	
78	464	Classroom	Construction	Remove raceway for CMP and patch		
79	464	Classroom	Construction	Remove existing whiteboard and patch the wall		
80	464	Classroom	Technology	Replace Projector on teaching wall		
81	464	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) on Blue wall.	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
82	464	Classroom	Technology	Install soundbar		
83	446	Classroom	Technology	Remove existing whiteboard		
84	446	Classroom	Technology	Replace Projector on teaching wall	5x20 overall space available for Teaching Wall whiteboards	

85	446	Classroom	Technology	Install soundbar		
86	446	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
87	451	Classroom	Technology	Replace Projector on teaching wall	5x16 overall space available for Teaching Wall whiteboards	
88	451	Classroom	Technology	Install soundbar		
89	451	Classroom	Technology	Replace raceway		
90	451	Classroom	Construction	Remove existing whiteboard and patch the wall		
91	451	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
92	453	Classroom	Construction	Remove bulletin board and patch	5x20 overall space available for Teaching Wall whiteboards	
93	453	Classroom	Construction	Remove existing Whiteboard and patch the wall		
94	453	Classroom	Technology	Install projector on teaching wall (Wall that had bulletin board)		
95	453	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) (wall that had bulletin board)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
96	453	Classroom	Technology	Install soundbar		

97	454	Classroom	Technology	Remove existing Whiteboard		
98	454	Classroom	Technology	Replace Projector on teaching wall	5x10 overall space available for Teaching Wall whiteboards	
99	454	Classroom	Construction	Remove Whiteboard and patch		
100	454	Classroom	Technology	Install (1) 5x10 whiteboard (centered)	Only 1 option - (1) 5x10	NSR Type E
101	454	Classroom	Technology	Install soundbar		
102	454	Classroom	Technology	Replace raceway		
103	457	Classroom	Construction	Remove (1) CMP	5x10 overall space available for Teaching Wall whiteboards	
104	457	Classroom	Construction	Remove raceway for CMP and patch		
105	457	Classroom	Construction	Remove existing whiteboard and patch the wall		
106	457	Classroom	Technology	Replace Projector on teaching wall		
107	457	Classroom	Technology	Install (1) 5x10 whiteboard (centered)	Only 1 option - (1) 5x10	NSR Type E
108	457	Classroom	Technology	Install soundbar		
109	458	Classroom	Technology	Remove existing Whiteboard		
110	458	Classroom	Technology	Replace Projector on teaching wall	5x16 overall space available for Teaching Wall whiteboards	
111	458	Classroom	Technology	Install soundbar		
112	458	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C

113	459	Classroom	Technology	Remove existing Whiteboard		
114	459	Classroom	Technology	Secure existing termination box	5x16 overall space available for Teaching Wall whiteboards	
115	459	Classroom	Technology	Install soundbar		
116	459	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	Option 2: Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
117	459	Classroom	Technology	Replace Projector on teaching wall		
118	460-POD	Classroom	Technology	Replace Projector on teaching wall	5x8 overall space available for Teaching Wall whiteboards	
119	460-POD	Classroom	Technology	Remove existing whiteboard		
120	460-POD		Technology	Install soundbar		
121	460-POD	Classroom	Technology	Install (1) 5x8 whiteboard		NSR Type I
122	460	Classroom	Technology	Remove (1) smartboard	5x20 overall space available for Teaching Wall whiteboards	
123	460	Classroom	Technology	Remove existing whiteboard and patch the wall		
124	460	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard) (wall that had bulletin board)	No Option 2 - standard sizing same as available space for TW Whiteboards	Standard
125	460	Classroom	Technology	Replace Projector on teaching wall		
126	460	Classroom	Technology	Install soundbar		

127	259A	Classroom	Technology	Install (1) 5x10 whiteboard (centered), install (2) 5x5 whiteboards (one on each side of centered whiteboard)	5x16 overall space available for Teaching Wall whiteboards. No existing whiteboard. Option 2 is to Install (1) 5x8 whiteboard (centered), install (2) 5x4 whiteboards (one on each side of centered whiteboard)	NSR Type C
128	259A	Classroom	Technology	Install NEW Projector on NEW teaching wall		
129	259A	Classroom	Technology	Install soundbar		
130	259A	Classroom	Construction	Install power on teaching wall for projector		
131	259A	Classroom	Construction	Install power on side (opposite of entrance) of teaching wall for interactive computer.		

Appendix 4 – Summary of Option 2 Custom Whiteboard Sizing

Option 2 Sizing - Whiteboard Set-Ups Types: Quantity by School*					
Line No	**Setup Type [NSR denotes Non-Standard Room]**	**Description of Setup Type**	**KIPP Infinity Middle**	**KIPP STAR Harlem Elementary**	**KIPP AMP Middle**
1	Standard Room	(1) 5'x10' whiteboard (centered) and (2) 5'x5' whiteboards (on each side of centered whiteboard)	5	1	13
2	NSR Type A	(1) 5'x8' whiteboard (centered) and (2) 5'x3' whiteboards (one on each side of centered whiteboard)	1	Not Applicable	Not Applicable
3	NSR Type B	(1) 5'x8' whiteboard (centered) and (2) 5'x3.5' whiteboards (one on each side of centered whiteboard)	2	Not Applicable	Not Applicable

4	NSR Type C	(1) 5’x8’ whiteboard (centered) and (2) 5’x4’ whiteboards (one on each side of centered whiteboard)	2	Not Applicable	7
5	NSR Type D	(1) 5’x10’ whiteboard (centered) and (2) 5’x4’ whiteboards (one on each side of centered whiteboard)	1	1	Not Applicable
6	NSR Type E	(1) 5’x10’ whiteboard (centered) only	1	1	2
7	NSR Type F	(1) 5x10 whiteboard (centered), install (2) 5x8 whiteboards	9	1	Not Applicable
8	NSR Type G	(1) 5x10 whiteboard (centered), install (2) 5x9 whiteboard	1	Not Applicable	Not Applicable
9	NSR Type H	(1) 5x8 whiteboard (centered), install (2) 5x8 whiteboards (one on each side of centered whiteboard)	2	1	Not Applicable
10	NSR Type I	(1) 5x8 whiteboard	Not Applicable	Not Applicable	2
11	No Change to Existing Whiteboards	Use Existing Whiteboard(s) on Existing Teaching Wall	1	Not Applicable	2
	TOTAL		**25**	**5**	**26**